

# Deutsches Gewässerkundliches Jahrbuch

Wesergebiet

Abflußjahr 1954

Herausgegeben

von dem

Niedersächsischen Minister für Ernährung, Landwirtschaft und Forsten  
Landesstelle für Gewässerkunde in Hannover

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# V o r w o r t

Das Jahrbuch „W e s e r, A b f l u ß j a h r 1 9 5 4“, ein Teil des „Deutschen Gewässerkundlichen Jahrbuches 1954“, erscheint zur Angleichung an die übrigen Gewässerkundlichen Teiljahrbücher nunmehr in Typendruck.

Die Abflüsse und Abflußspenden sind zum Teil von den oberhalb liegenden Talsperren beeinflusst. Bei den Harzpegeln ist auf die Errechnung der Abflußspenden verzichtet worden, da sie durch vielfache Überleitungen der Abflüsse in benachbarte Einzugsgebiete gestört sind.

Für den Pegel Schmittlotheim (Eder) werden nach beendeter Prüfung der Abflußkurve die Abflußwerte wieder veröffentlicht.

Die Abflüsse der Pegel Brünneckenbrück (Aller) und Berka (Söse), deren Veröffentlichung wegen Umbau der Meßstellen in den letzten Jahren ausfallen mußte, werden in diesem Jahre wieder gebracht.

Ferner sind die Abflüsse für den wichtigen Pegel Hann.-Münden am Zusammenfluß von Werra und Fulda und den Pegel Hameln (Weser) in das Jahrbuch aufgenommen worden.

Durch Veröffentlichung der Abflußwerte des Pegels Nörten-Hardenberg erfährt das Leinegebiet eine bedeutsame Ergänzung.

An Stelle des Pegels Westen (Aller) erscheint nunmehr der gewässerkundlich günstiger gelegene Pegel Rethem.

Neben den Abflüssen des Pegels Basse (Leine) werden auch die des Nachbarpegels Schwarmstedt gebracht, da Schwarmstedt wegen seiner größeren Zuverlässigkeit Basse in Kürze ersetzen soll.

Von den Pegeln Dorndorf (Werra), Frankenroda (Werra), Unterbreizbach (Ulster) und Eisenach-Spicke (Hörsel) liegen für 1954 keine Abflußangaben vor.

Die Grundwasserbeobachtungen werden in gleichem Umfang wie 1953 veröffentlicht. Es handelt sich um sorgfältig ausgesuchte Meßstellen innerhalb größerer eiszeitlicher Grundwasservorkommen, deren Spiegelgang als ungestört angesehen werden kann.

Durch den Übergang zum Typendruck war die Aufnahme einiger neuer bzw. veränderter Abkürzungen und Zeichen erforderlich, über die eine Zusammenstellung auf Seite 4 unterrichtet. Die allgemeinen statistischen Grundsätze sind in dem von der Bundesanstalt für Gewässerkunde, Koblenz, herausgegebenen „Allgemeinen Teil des Deutschen Gewässerkundlichen Jahrbuches“ enthalten.

Die Lage der Pegel und Talsperren ist aus der am Schluß des Jahrbuches angehefteten, herausklappbaren Karte ersichtlich.

Bearbeiter dieses Jahrbuches waren Ing. H. G i l s und Techn. Angestellter O. M u ß m a n n.

Hannover, im September 1957.

Der Niedersächsische Minister für Ernährung, Landwirtschaft und Forsten

– Landesstelle für Gewässerkunde –

Im Auftrage:

B a r t h e l

Oberregierungs- und -baurat

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## Berichtigungen

| Seite                  | Pegel       | nähere Bezeichnung   | falsch | richtig |
|------------------------|-------------|--|--------|---------|
| Jahrbuch 1950          |             |  |        |         |
| 58                     | Bodenwerder | Flußwasser-Temperaturen<br>monatliche Hauptzahlen<br>der Jahresreihe 1941/1950<br>für Monat März | 2,9    | 4,9     |
| Jahrbuch 1951 und 1952 |             |  |        |         |
| 66                     | Bodenwerder |  |        |         |
| Jahrbuch 1953          |             |  |        |         |
| 67                     | Bodenwerder |  |        |         |

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# Berichtigungen

## **Pegel Ohrum:**

In den Jahrbüchern 1946 bis 1954 ist zu ändern:

HHQ vom 9. Febr 1946 nicht  $107 \text{ m}^3/\text{s}$  und HHQ  $132 \text{ l/s km}^2$  sondern  
 $146 \text{ m}^3/\text{s}$  und HHQ  $180 \text{ l/s km}^2$

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## **Pegel Groß-Schwülper:**

In den Jahrbüchern 1953, Seite 26 und 1954, Seite 33, ist zu ändern:

HHW vom 9. Febr 1946 nicht 517 sondern 561.

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## Berichtigungen

- Jahrbücher 1954 bis 1967: Pegel Kämmerzell/Fulda, Abflüsse und Abflußspenden: Die Abflüsse wurden für die Abflußjahre 1954 bis 1966 überarbeitet; siehe Deckblatt und Seite 183 dieses Jahrbuches.
- Jahrbuch 1965: Seite 93, Pegel Herford: Streiche die Gebietsniederschlagshöhen und setze statt deren:  
Nov Dez Jan Febr März April Mai Juni Juli Aug Sept Okt Wi So Jahr  
72 60 122 38 56 127 94 88 164 72 27 37 475 482 957
- Jahrbuch 1965: Seite 109, Pegel Elvershausen: Tageswert am 10. Mai statt 22,0 setze 122,0
- Jahrbücher 1965, 1966 und 1967: Seite 135 und 141, Pegel Versen-Wehrdurchstich:  
MW Aug 1956/1965 statt 141 setze 144  
MW Sept 1956/1965 statt 143 setze 140
- Jahrbücher 1966 und 1967: Seite 168, Pegel Rheine-Unterschleuse: In der Fußnote: Statt Kleinster beeinflufßer Abfluß setze Kleinster unbeeinflufßer Abfluß.
- Jahrbuch 1967: Seite 126, Pegel Huntlosen: Vergleichsreihe statt 1958/1967 setze 1963/1967







## Abkürzungen und Zeichen

- L = Lattenpegel  
 Ss = Schwimmer-Schreibpegel  
 Sd = Druckluft-Schreibpegel  
 Se = elektrischer Schreibpegel  
 B = Bundesanstalt für Gewässerkunde, Koblenz  
 D = Ministerium für Ernährung, Landwirtschaft und Forsten –  
 Abteilung Wasserwirtschaft –, Dez. Gewässerkunde, Düsseldorf  
 H = Ministerium für Ernährung, Landwirtschaft und Forsten –  
 Landesstelle für Gewässerkunde, Hannover  
 W = Hessischer Minister für Landwirtschaft und Forsten –  
 Abteilung Wasserwirtschaft –, Wiesbaden  
 PVB = Präsident des Niedersächsischen Verwaltungsbezirks  
 RP = Regierungspräsident  
 WSD = Wasser- und Schifffahrtsdirektion  
 WSA = Wasser- und Schifffahrtsamt  
 WWA = Wasserwirtschaftsamt  
 W = Wasserstand  
 Q = Abfluß  
 T = Temperatur  
 H = Hauptzahlen  
 PN = Pegelnull  
 NN = Normalnull  
 aS = altes System des Landesnivellements } Bei den Null-  
 nS = neues System des Landesnivellements } punktangaben  
 MBI = Meßtischblatt  
 R = Rechtswert  
 H = Hochwert  
 FN = Niederschlagsgebiet

Schrägdruck bedeutet, daß betreffende Zahlenangabe unsicher oder nicht übertragbar ist

- ∩ = Randeis  
 ∪ = Grundeis  
 ⊔ = Rand- und Grundeis  
 † = Eisbewegung  
 ‡ = Randeis und Eisbewegung  
 † = Grundeis und Eisbewegung  
 ‡ = Randeis, Grundeis und Eisbewegung  
 | = Eisstand  
 || = Eisstoß (Eisversetzung)  
 ° = eisfrei am Tage nach einer Eisperiode  
 ‡ = Abfluß wird durch Verkrautung gehemmt  
 ⊕ = Vollmond  
 ● = Neumond

# Hydrographisches Verzeichnis der Pegel,

von denen Beobachtungen nachstehend veröffentlicht sind  
(Gebietspegelverzeichnis)

## Erläuterungen zu den Spalten:

Abkürzungen in den Spalten e, f, g und m siehe Seite 4.

| Gewässer<br>(Vorfluter bis<br>einschließlich<br>Hauptvorfluter) | Pegel                     |         |        | Zuständigkeit       |  | Lage<br>am<br>Wasser-<br>lauf<br><br>km | Höhe des Pegelnul-<br>punktes über NN<br><br>m | Größe des Nieder-<br>schlagsgebietes<br><br>km <sup>2</sup> | Beobach-<br>tungswerte<br>sind<br>ohne größere<br>Lücken<br>vorhanden<br>seit | veröffent-<br>licht |                  |                |
|---|---------------------------|---------|--------|---------------------|--|---|--|---|---|---------------------|------------------|----------------|
|   | Name                      | Ordnung | Bauart | Gewässerkl. Anstalt | Mittel-<br>behörde                     |   |  |   |   | Orts-<br>behörde    | Beobachtungswert | Seite          |
| a   | b                         | c       | d      | e                   | f                                      | g                                       | h  | i   | k   | l                   | m                | n              |
| Weser   | Hann.-Münden              | I       | Ss     | B                   | WSD<br>Hannover                        | WSA<br>Hann.-Münden                     | -0,08  | 115,11  | 12 444  | 1. 1. 1831          | W<br>Q<br>T<br>W | 14<br>60<br>85 |
| Weser   | Sieburg                   | I       | L      | B                   | WSD<br>Hannover                        | WSA<br>Hann.-Münden                     | 42,4   | 95,02   | 13 027  | 1. 1. 1952          | W<br>Q<br>T<br>W | 14<br>60<br>61 |
| Weser   | Karlshafen                | I       | Ss     | B                   | WSD<br>Hannover                        | WSA<br>Hameln                           | 45,25  | 93,14   | 14 794  | 1. 1. 1872          | W<br>Q<br>T<br>W | 15<br>61<br>16 |
| Weser   | Bodenwerder               | I       | Sd     | B                   | WSD<br>Hannover                        | WSA<br>Hameln                           | 110,7  | 69,37   | 15 929  | 6. 4. 1839          | W<br>Q<br>T<br>W | 16<br>62<br>85 |
| Weser   | Hameln                    | I       | Sd     | B                   | WSD<br>Hannover                        | WSA<br>Hameln                           | 135,6  | 59,32   | 17 077  | 1. 1. 1836          | W<br>Q<br>T<br>W | 16<br>62<br>17 |
| Weser   | Vlotho<br>Vlotho (Meßst.) | I       | L      | B                   | WSD<br>Hannover                        | WSA<br>Minden                           | 182,97   | 42,12   | 17 583<br>17 618  | 1. 2. 1819          | W<br>Q<br>T<br>W | 17<br>63<br>18 |
| Weser   | Porta                     | I       | Ss     | B                   | WSD<br>Hannover                        | WSA<br>Minden                           | 198,36   | 37,01   | 19 162  | 15. 2. 1935         | W<br>Q<br>T<br>W | 18<br>64<br>18 |
| Weser   | Drakenburg                | II      | Ss     | B                   | WSD<br>Hannover                        | WSA<br>Hoya                             | 278,89   | 14,00   | 21 926  | 1. 7. 1938          | W<br>Q<br>T<br>W | 18<br>64<br>19 |
| Weser   | Intschede                 | I       | Ss     | B                   | WSD<br>Hannover                        | WSA<br>Verden                           | 331,22   | 4,80  | 37 788  | 1. 7. 1856          | W<br>Q<br>T<br>W | 19<br>65<br>85 |
| Werra<br>(Weser)  | Dorndorf                  | I       | Ss     |                     | Hauptamt<br>f. Hydrologie,<br>Bln. C 2 | Hauptamt<br>f. Hydrologie,<br>Bln. C 2  | 167  | 224,15  | 2 240   |                     | W                | 20             |
| Werra<br>(Weser)  | Gerstungen                | I       | Ss     |                     | Hauptamt<br>f. Hydrologie,<br>Bln. C 2 | Hauptamt<br>f. Hydrologie,<br>Bln. C 2  | 136  | 202,73  | 3 056   |                     | W                | 20             |
| Werra<br>(Weser)  | Frankenroda               | III     | Ss     |                     | Hauptamt<br>f. Hydrologie,<br>Bln. C 2 | Hauptamt<br>f. Hydrologie,<br>Bln. C 2  | 91   | 177,98  | 4 215   |                     | W                | 21             |
| Werra<br>(Weser)  | Heldra                    | I       | Ss     | B                   | WSD<br>Hannover                        | WSA<br>Kassel                           | 77,32  | 168,00  | 4 308   | 1. 5. 1951          | Q                | 66             |
| Werra<br>(Weser)  | Ludwigstein               | I       | Ss     | B                   | WSD<br>Hannover                        | WSA<br>Kassel                           | 29,72  | 136,00  | 5 261   | 1. 8. 1951          | W<br>Q<br>T<br>W | 22<br>66<br>85 |
| Ulster<br>(Werra, Weser)  | Unterbreizbach            | I       | Ss     |                     | Hauptamt<br>f. Hydrologie,<br>Bln. C 2 | Hauptamt<br>f. Hydrologie,<br>Bln. C 2  | 5  | 230,26  | 402   |                     | W                | 22             |
| Fulda<br>(Weser)  | Kämmerzell                | II      | Ss     | W                   | RP<br>Kassel                           | WWA<br>Fulda                            | 177  | 232,08  | 562   | 7. 8. 1953          | W<br>Q<br>T<br>W | 23<br>67<br>24 |
| Fulda<br>(Weser)  | Rotenburg                 | I       | Ss     | B                   | WSD<br>Hannover                        | WSA<br>Kassel                           | 95,3   | 180,50  | 2 515   | 1. 1. 1872          | W<br>Q<br>T<br>W | 24<br>68<br>68 |
| Fulda<br>(Weser)  | Grebenau                  | I       | L      | B                   | WSD<br>Hannover                        | WSA<br>Kassel                           | 54,59  | 151,00  | 2 970   | 1. 7. 1949          | Q                | 68             |
| Fulda<br>(Weser)  | Guntershausen             | I       | Ss     | B                   | WSD<br>Hannover                        | WSA<br>Kassel                           | 43,58  | 140,86  | 6 360   | 1. 4. 1894          | Q<br>T<br>W      | 69<br>85<br>24 |
| Eder<br>(Fulda, Weser)  | Schmittlotheim            | I       | Ss     | B                   | WSD<br>Hannover                        | WSA<br>Hann.-Münden                     | 74,5   | 246,82  | 1 202   | 1. 1. 1906          | W<br>Q<br>T<br>W | 24<br>70<br>85 |
| Eder<br>(Fulda, Weser)  | Affoldern                 | I       | Ss     | B                   | WSD<br>Hannover                        | WSA<br>Hann.-Münden                     | 43,6   | 193,13  | 1 452   | 26. 6. 1929         | W<br>Q<br>T<br>W | 25<br>70<br>85 |
| Eder<br>(Fulda, Weser)  | Wolfershausen             | I       | Ss     | W                   | RP<br>Kassel                           | WWA<br>Kassel                           | 5,5  | 145,41  | 3 322   | 1. 6. 1951          | W                | 26             |
| Schwalm (Eder,<br>Fulda, Weser)                                 | Treysa                    | I       | L      | W                   | RP<br>Kassel                           | WWA<br>Kassel                           | 49,5   | 207,05  | 548   | 25. 11. 1935        | W                | 26             |

| Gewässer<br>(Vorfluter bis<br>einschließlich<br>Hauptvorfluter) | Pegel                  |         |        |                     | Zuständigkeit                          |  | Lage<br>am<br>Wasser-<br>lauf<br>km | Höhe des Pegelnul-<br>punktes über NN<br>m | Größe des Nieder-<br>schlagsgebietes<br>km² | Beobach-<br>tungswerte<br>sind<br>ohne größere<br>Lücken<br>vorhanden<br>seit | veröffent-<br>licht |                |
|---|------------------------|---------|--------|---------------------|--|--|-------------------------------------|--|---|---|---------------------|----------------|
|   | Name                   | Ordnung | Bauart | Gewässerkd. Anstalt | Mittel-<br>behörde                     | Orts-<br>behörde                       |                                     |  |   |   | Beobachtungswert    | Seite          |
| a   | b                      | c       | d      | e                   | f                                      | g                                      | h                                   | i  | k   | l   | m                   | n              |
| Diemel<br>(Weser)   | Helminghausen          | II      | Ss     | B                   | WSD<br>Hannover                        | WSA<br>Hann.-Münden                    | 90,0                                | 336,97                                     | 103   | 17. 8. 1924   | W<br>Q              | 27<br>71       |
| Diemel<br>(Weser)   | Trendelburg            | I       | Ss     | W                   | RP<br>Kassel                           | WWA<br>Kassel                          | 17,0                                | 114,87                                     | 1 631                                       | 1. 1. 1887  | W                   | 28             |
| Emmer<br>(Weser)  | Welsede                | II      | Ss     | H                   | RP<br>Hannover                         | WWA<br>Hannover                        | 7,0                                 | 81,10                                      | 507   | 1. 8. 1950  | W                   | 28             |
| Werre<br>(Weser)  | Herford                | II      | Sd     | D                   | RP<br>Detmold                          | WWA<br>Minden                          | 23,3                                | 55,84                                      | 875   | 1. 11. 1952   | W                   | 29             |
| Steinhuder Meer<br>(Meerbach, Weser)                            | Wilhelmstein           | II      | L      | H                   | RP<br>Hannover                         | WWA<br>Hannover                        |                                     | 37,63                                      | 105   | 1873  | W                   | 30             |
| Aller<br>(Weser)  | Brenneckenbrück        | I       | Ss     | H                   | RP<br>Lüneburg                         | WWA<br>Celle                           | 155,6                               | 47,34                                      | 1 639                                       | 1. 4. 1864  | W<br>Q<br>T         | 30<br>72<br>85 |
| Aller<br>(Weser)  | Celle                  | I       | L      | B                   | WSD<br>Hannover                        | WSA<br>Celle                           | 113,85                              | 31,82                                      | 4 387                                       | 1. 5. 1889  | W<br>Q              | 31<br>72       |
| Aller<br>(Weser)  | Rethem                 | I       | Ss     | B                   | WSD<br>Hannover                        | WSA<br>Verden                          | 34,82                               | 14,31                                      | 15 003                                      | 1. 7. 1911  | W<br>Q<br>Q         | 32<br>73<br>74 |
| Oker<br>(Aller, Weser)  | Juliusstau             | II      | Ss     | H                   | RP<br>Hildesheim                       | Harzwasser-<br>werke                   | 113                                 | 345,13                                     | 86,1  | 1. 11. 1925   | Q                   | 74             |
| Oker<br>(Aller, Weser)  | Ohrum                  | I       | Ss     | H                   | PVB<br>Braunschweig                    | WWA<br>Braunschweig                    | 74,0                                | 75,58                                      | 813   | 1. 1. 1920  | W<br>Q<br>T         | 32<br>74<br>85 |
| Oker<br>(Aller, Weser)  | Groß-Schwülper         | I       | Ss     | H                   | RP<br>Lüneburg                         | WWA<br>Celle                           | 27,4                                | 55,67                                      | 1 740                                       | 1. 7. 1907  | W<br>Q<br>T         | 33<br>75<br>85 |
| Radau (Oker,<br>Aller, Weser)                                   | Harzburg               | II      | Ss     | H                   | RP<br>Hildesheim                       | Harzwasser-<br>werke                   | 14,0                                | 406,91                                     | 18,1  | 1. 10. 1926   | Q                   | 76             |
| Leine<br>(Aller, Weser)   | Arenshausen            | III     | Ss     |                     | Hauptamt<br>f. Hydrologie,<br>Bln. C 2 | Hauptamt<br>f. Hydrologie,<br>Bln. C 2 | 253                                 | 197,94                                     | 274   | 1. 7. 1930  | W                   | 34             |
| Leine<br>(Aller, Weser)   | Nörten-Harden-<br>berg | I       | Ss     | H                   | RP<br>Hildesheim                       | WWA<br>Hildesheim                      | 218                                 | 125,09                                     | 883   | 1907  | W<br>Q<br>T         | 34<br>76<br>85 |
| Leine<br>(Aller, Weser)   | Greene                 | I       | L      | H                   | RP<br>Hildesheim                       | WWA<br>Hildesheim                      | 177                                 | 94,92                                      | 2 920                                       | 1. 1. 1904  | W<br>T              | 35<br>85       |
| Leine<br>(Aller, Weser)   | Poppenburg             | I       | Ss     | H                   | RP<br>Hildesheim                       | WWA<br>Hildesheim                      | 130                                 | 68,46                                      | 3 467                                       | 1. 11. 1951   | W<br>Q<br>T         | 36<br>77<br>85 |
| Leine<br>(Aller, Weser)   | Herrenhausen           | I       | Ss     | B                   | WSD<br>Hannover                        | WSA<br>Hannover                        | 87,02                               | 43,84                                      | 5 329                                       | 1. 8. 1903  | W<br>Q              | 36<br>78       |
| Leine<br>(Aller, Weser)   | Basse                  | III     | L      | B                   | WSD<br>Hannover                        | WSA<br>Celle                           | 35,9                                | 28,50                                      | 6 137                                       | 22. 4. 1850   | W<br>Q<br>W         | 37<br>78<br>78 |
| Leine<br>(Aller, Weser)   | Schwarmstedt           |         |        | B                   | WSD<br>Hannover                        |  | 5,85                                | 21,00                                      | 6 453                                       |   | W<br>Q<br>W         | 38<br>79<br>79 |
| Rhume (Leine,<br>Aller, Weser)                                  | Berka                  | I       | Ss     | H                   | RP<br>Hildesheim                       | WWA<br>Hildesheim                      | 14,0                                | 130,43                                     | 893   | 1. 11. 1953   | W<br>T              | 38<br>85       |
| Oder<br>(Rhume, Leine,<br>Aller, Weser)                         | Scharzfeld             | II      | Ss     | H                   | RP<br>Hildesheim                       | Harzwasser-<br>werke                   | 21,0                                | 228,94                                     | 153,2                                       | 1. 11. 1928   | Q                   | 80             |
| Sieber (Oder,<br>Rhume, Leine,<br>Aller, Weser)                 | Hattorf                | II      | Ss     | H                   | RP<br>Hildesheim                       | Harzwasser-<br>werke                   | 1,2                                 | 180,63                                     | 127,1                                       | 1. 11. 1930   | Q                   | 80             |
| Söse<br>(Rhume, Leine,<br>Aller, Weser)                         | Berka                  | I       | Ss     | H                   | RP<br>Hildesheim                       | Harzwasser-<br>werke                   | 1,5                                 | 132,25                                     | 211,3                                       | 1. 9. 1939  | Q                   | 81             |
| Innerste (Leine,<br>Aller, Weser)                               | Lindthal               | II      | Ss     | H                   | RP<br>Hildesheim                       | Harzwasser-<br>werke                   | 78,0                                | 228,15                                     | 95,8  | 4. 12. 1949   | Q                   | 82             |
| Innerste (Leine,<br>Aller, Weser)                               | Hohenrode              | II      | Ss     | H                   | PVB<br>Braunschweig                    | WWA<br>Braunschweig                    | 56,0                                | 144,38                                     | 212   | 1. 1. 1949  | W<br>Q              | 39<br>82       |
| Innerste<br>(Leine, Aller,<br>Weser)                            | Heinde                 | I       | Ss     | H                   | RP<br>Hildesheim                       | WWA<br>Hildesheim                      | 26,0                                | 78,82                                      | 899   | 1. 1. 1906  | W<br>Q<br>T         | 40<br>83<br>85 |
| Nette<br>(Innerste, Leine,<br>Aller, Weser)                     | Bornum                 | II      | L      | H                   | PVB<br>Braunschweig                    | WWA<br>Braunschweig                    | 20,0                                | 116,28                                     | 162   | 1. 2. 1919  | W                   | 40             |
| Hunte<br>(Weser)  | Goldenstedt            | I       | Ss     | H                   | PVB<br>Oldenburg                       | WWA<br>Cloppenburg                     | 91,4                                | 21,93                                      | 1 263                                       | 1. 11. 1929   | W<br>Q<br>T         | 41<br>84<br>85 |

| Gewässer<br>(Vorfluter bis einschließlich Hauptvorfluter) | Pegel                   |         |        |                     | Zuständigkeit                             |                                    | Lage am Wasserlauf<br>km | Höhe des Pegelnulldpunktes über NN<br>m | Größe des Niederschlagsgebietes<br>km <sup>2</sup> | Beobachtungswerte sind ohne größere Lücken vorhanden seit | veröffentlicht   |       |
|---|-------------------------|---------|--------|---------------------|---|------------------------------------|--------------------------|---|--|---|------------------|-------|
|   | Name                    | Ordnung | Bauart | Gewässerkd. Anstalt | Mittelbehörde                             | Ortsbehörde                        |                          |   |  |   | Beobachtungswert | Seite |
| a   | b                       | c       | d      | e                   | f   | g                                  | h                        | i                                       | k  | l   | m                | n     |
| <b>Tidepegel</b>  |                         |         |        |                     |   |                                    |                          |   |  |   |                  |       |
| Unterweser  | Bremen, Gr. Weserbrücke | I       | Ss     | B                   | WSD Bremen                                | WSA Bremen                         | 0                        | -5,00                                   | 38 211   | I. I. 1815  | W                | 42/43 |
| Unterweser  | Vege sack               | I       | Ss     | B                   | WSD Bremen                                | WSA Bremen                         | 17,5                     | -5,00                                   | 41 427   | I. I. 1855  | W                | 44/45 |
| Unterweser  | Farge                   | II      | Ss     | B                   | WSD Bremen                                | WSA Brake                          | 26,3                     | -5,00                                   | 41 491   | I. II. 1860   | W                | 46/47 |
| Unterweser  | Brake                   | I       | Ss     | B                   | WSD Bremen                                | WSA Brake                          | 40,7                     | -5,00                                   | 44 475   | I. 3. 1847  | W                | 48/49 |
| Unterweser  | Bremerhaven             | I       | Ss     | B                   | Senator f. Häfen, Schiff.u. Verk., Bremen | Hansestadt Bremen, Amt Bremerhaven | 65,3                     | -5,00                                   | 45 797   | 3. 3. 1926  | W                | 50/51 |
| Hunte (Unterweser)  | Drielake                | I       | Ss     | B                   | WSD Bremen                                | WSA Oldenburg                      | 25,2                     | -5,00                                   | 2 344  | 1897  | W                | 52/53 |

Dauerzahlen siehe Seite 57

## Alphabetisches Pegelverzeichnis und Lage der Pegel nach Rechts- und Hochwerten

| Name            | Lage     |            |           | Seite |    | Name              | Lage     |            |           | Seite |    |
|-----------------|----------|------------|-----------|-------|----|-------------------|----------|------------|-----------|-------|----|
|                 | Mbl. Nr. | Rechtswert | Hochwert  | W     | Q  |                   | Mbl. Nr. | Rechtswert | Hochwert  | W     | Q  |
| Affoldern       | 4820     | 35.06.000  | 56.69.910 | 25    | 70 | Helminghausen     | 4618     | 34.81.330  | 56.94.120 | 27    | 71 |
| Arenshausen     | 4629     | 35.67.960  | 56.94.000 | 34    |    | Herford           | 3818     | 34.77.630  | 57.77.640 | 29    |    |
| Basse           | 3423     | 35.34.290  | 58.24.170 | 37    | 78 | Herrenhausen      | 3624     | 35.46.080  | 58.06.290 | 36    | 78 |
| Berka/Rhume     | 4326     | 35.76.640  | 57.28.340 | 38    |    | Hohenrode         | 3928     | 35.93.680  | 57.65.330 | 39    | 82 |
| Berka/Söse      | 4326     | 35.77.770  | 57.29.290 |       | 81 | Intschede         | 3020     | 35.08.560  | 58.70.050 | 19    | 65 |
| Bodenwerder     | 4023     | 35.35.500  | 57.60.080 | 16    | 62 | Juliusstau        | 4128     | 36.00.740  | 57.47.790 |       | 74 |
| Bornum          | 4026     | 35.77.820  | 57.60.720 | 40    |    | Kämmerzell        | 5423     | 35.45.140  | 56.07.100 | 23    | 67 |
| Brake           | 2616     | 34.65.950  | 59.11.090 | 48/49 |    | Karlshafen        | 4322     | 35.30.550  | 57.23.640 | 15    | 61 |
| Bremen          | 2918     | 34.86.910  | 58.82.320 | 42/43 |    | Lindthal          | 4027     | 35.89.470  | 57.54.250 |       | 82 |
| Bremerhaven     | 2417     | 34.72.070  | 59.33.550 | 50/51 |    | Ludwigstein       | 4625     | 35.63.910  | 56.87.580 | 22    | 66 |
| Brenneckenbrück | 3528     | 35.99.650  | 58.17.410 | 30    | 72 | Nörten-Hardenberg | 4325     | 35.64.380  | 57.21.950 | 34    | 76 |
| Celle           | 3326     | 35.72.040  | 58.32.720 | 31    | 72 | Ohrum             | 3829     | 44.01.860  | 57.77.390 | 32    | 74 |
| Dorndorf        | 5126     | 35.75.987  | 56.34.644 | 20    |    | Poppenburg        | 3824     | 35.52.170  | 57.78.210 | 36    | 77 |
| Drakenburg      | 3321     | 35.15.320  | 58.39.960 | 18    | 64 | Porta             | 3719     | 34.94.760  | 57.90.580 | 18    | 64 |
| Drielake        | 2815     | 34.48.801  | 58.90.082 | 52/53 |    | Rethem            | 3222     | 35.25.880  | 58.50.790 | 32    | 73 |
| Farge           | 2717     | 34.67.340  | 58.97.070 | 46/47 |    | Rotenburg         | 4924     | 35.50.660  | 56.52.310 | 23    | 67 |
| Frankenroda     | 4927     | 35.89.327  | 56.63.145 | 21    |    | Scharzfeld        | 4328     | 35.94.440  | 57.22.510 |       | 80 |
| Gerstungen      | 5026     | 35.76.260  | 56.48.720 | 20    |    | Schmittlotheim    | 4819     | 34.92.950  | 56.68.970 | 24    | 70 |
| Goldenstedt     | 3216     | 34.63.130  | 58.50.280 | 41    | 84 | Schwarmstedt      | 3323     | 35.40.920  | 58.39.120 | 38    | 79 |
| Grebenua        | 4822     | 35.34.920  | 56.73.210 |       | 69 | Sieburg           | 4322     | 35.32.940  | 57.24.630 | 14    | 60 |
| Greene          | 4125     | 35.64.980  | 57.48.100 | 35    |    | Trendelburg       | 4422     | 35.29.740  | 57.16.000 | 28    |    |
| Groß-Schwülper  | 3628     | 35.96.710  | 58.04.150 | 33    | 75 | Treysa            | 5021     | 35.13.710  | 56.42.160 | 26    |    |
| Guntershausen   | 4722     | 35.32.860  | 56.76.980 |       | 69 | Unterbreizbach    | 5125     | 35.69.235  | 56.31.475 | 22    |    |
| Hameln          | 3822     | 35.24.140  | 57.74.810 | 16    | 62 | Vege sack         | 2817     | 34.74.860  | 58.92.860 | 44/45 |    |
| Hann.-Münden    | 4523     | 35.44.640  | 56.99.190 | 14    | 60 | Vlotho            | 3819     | 34.90.660  | 57.82.540 | 17    | 63 |
| Harzburg        | 4129     | 44.00.000  | 57.47.460 |       | 76 | Welsede           | 3922     | 35.23.260  | 57.63.520 | 28    |    |
| Hattorf         | 4327     | 35.86.940  | 57.24.840 |       | 80 | Wilhelmstein      | 3521     | 35.20.950  | 58.14.160 | 30    |    |
| Heinde          | 3826     | 35.70.340  | 57.74.780 | 40    | 83 | Wolfershausen     | 4822     | 35.30.890  | 56.72.670 | 26    |    |
| Heldra          | 4827     | 35.83.890  | 56.66.250 |       | 66 |                   |          |            |           |       |    |

## Gewässerkundliche Beschreibung des Abflußjahres 1954

Der auf Seite 9 dargestellte Charakter des Abflußjahres weicht nur wenig vom allgemeinen Wettergeschehen des gesamten Wesergebietes ab. Er kennzeichnet zutreffend die meteorologischen Vorgänge, das Verhalten der Abflüsse und des Grundwassers.

Die Niederschläge erreichten in keinem Monat des Winterhalbjahres das langjährige Mittel. In manchen Teilen des Niederschlagsgebietes wurden in dieser Zeit nur 5 bis 10<sup>0</sup>/<sub>10</sub> der Durchschnittswerte gemessen. Die größten Fehlbeträge traten im November und Dezember auf. Die Trockenheit hielt auch in den ersten beiden Monaten des Sommerhalbjahres an, so daß zu dieser Zeit große Wasserversorgungsschwierigkeiten befürchtet wurden. Der Monat Juli brachte jedoch ungewöhnlich hohe Niederschläge, die im allgemeinen Werte bis 200<sup>0</sup>/<sub>10</sub> über dem langjährigen Mittel erreichten. Im Harz wurden sogar 270<sup>0</sup>/<sub>10</sub> der Normalwerte gemessen. Auch die drei folgenden Monate des Sommerhalbjahres waren zu naß. Die Mittelwerte wurden teilweise um 100<sup>0</sup>/<sub>10</sub> bis 200<sup>0</sup>/<sub>10</sub> überschritten.

Die größten Tagesniederschläge fielen am 12. 7. im Werregebiet = 70,5 mm, im oberen Allergebiet = 69 mm, im Okergebiet = 63,6 mm und im Leinegebiet = 80,4 mm, am 3. 9. im Werragebiet = 54,8 mm und am 8. 9. im Fuldagebiet = 91,3 mm. Daraus geht hervor, daß die außergewöhnlichen Juli-Niederschläge sich über das ganze Wesergebiet unterhalb Hann.-Münden ausdehnten.

Durch diese vier regenreichen Sommermonate wurde der Fehlbetrag der acht vorangegangenen Trockenmonate mehr als ausgeglichen, so daß das Jahresmittel noch über dem langjährigen Durchschnitt liegt. Dies wird auch durch die Darstellung auf Seite 11, die die Jahressumme der vorangegangenen 50 Jahre mit der des Berichtsjahres vergleicht, verdeutlicht. Bei ganzjähriger Beurteilung kann man zwar von einem Durchschnittsjahr sprechen, doch wird dieses Abflußjahr besser durch eine halbjährliche Betrachtung charakterisiert: Winterhalbjahr zu trocken – Sommerhalbjahr zu naß.

Die **Lufttemperaturen** weichen im Jahresdurchschnitt nur wenig vom Mittel ab. Im einzelnen waren die Monate November und Dezember zu warm, die zweite Hälfte Januar, besonders aber der Februar und der Juli, zu kalt. Im letzten Monat des Abflußjahres (Oktober) lagen die Temperaturen über dem langjährigen Durchschnitt. Die übrigen Monate brachten keine bemerkenswerten Abweichungen von den Normalwerten.

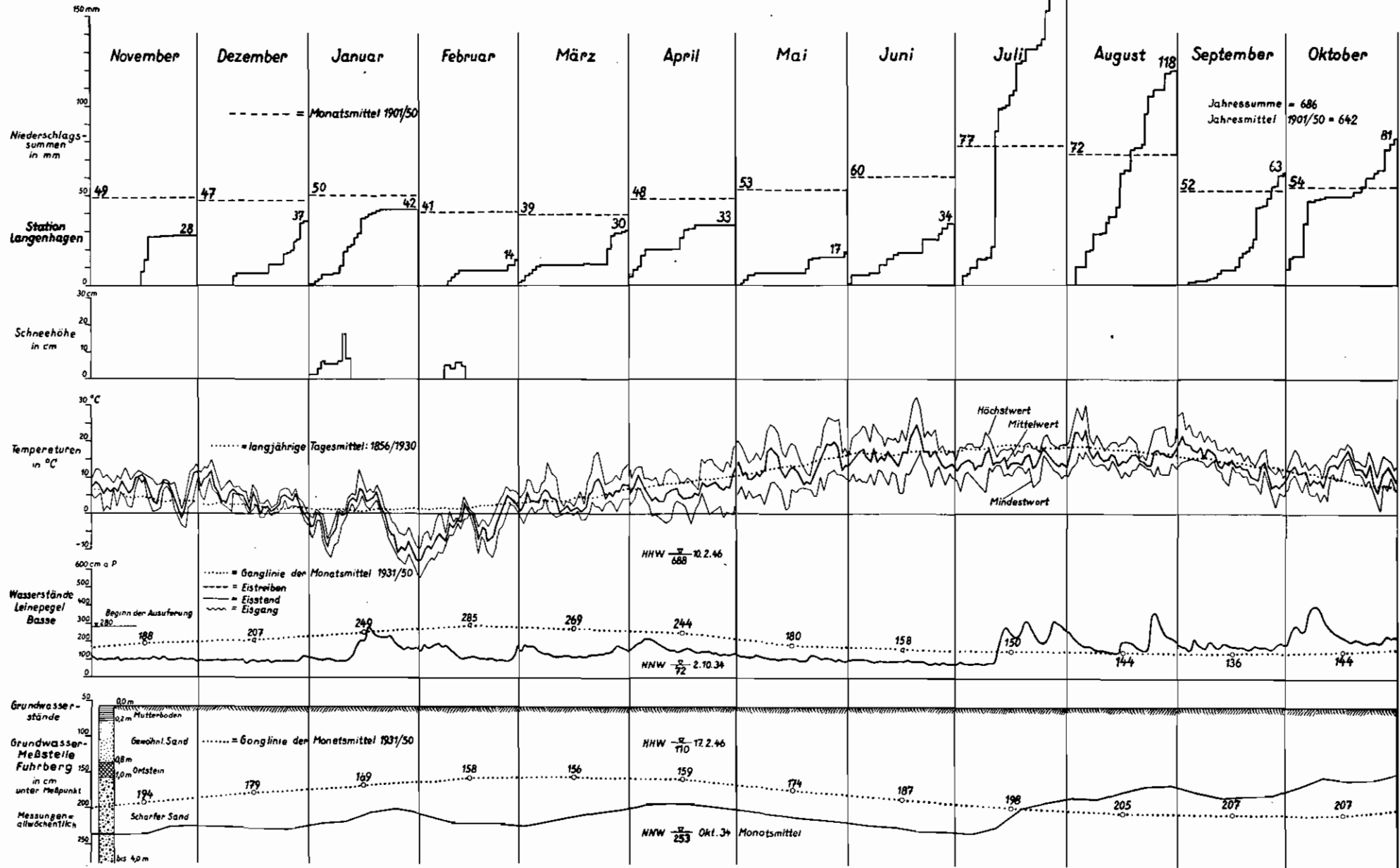
Die oberirdischen **Abflüsse** entsprechen der ungewöhnlichen Niederschlagsverteilung. Die Wasserstände lagen in den Wintermonaten im allgemeinen erheblich unter den Mittelwerten. Nur die durch einen plötzlichen Temperaturanstieg Mitte Januar ausgelöste Schneeschmelze brachte im oberen Teil des Wesergebietes vorübergehend einen Wasserstandsanstieg, der jedoch durch wieder einsetzenden Frost und anhaltende Trockenheit rasch absank. Die viel zu niedrigen Wasserstände hielten bis zum Einsetzen der außergewöhnlichen Juli-Niederschläge an. Von diesem Zeitpunkt an bis zum Ende des Abflußjahres lagen die Wasserstände größtenteils über den Mittelwerten. Im Juli, August und Oktober führten die meisten Zuflüsse und die Weser selbst Hochwasser. Trotz der außergewöhnlich hohen Niederschläge kam es jedoch zu keiner Katastrophe, da zufolge der sehr niedrigen Grundwasserstände ein großer Teil der Niederschlagsmengen von den unterirdischen Speicherräumen aufgenommen werden konnte.

Die Verteilung des Abflusses wird besonders durch das auf Seite 10 dargestellte Spendendauerbild verdeutlicht. Im Winterhalbjahr sinken die Spendelinien gegenüber dem Vorjahre stark ab, während sie im Sommer gegenüber dem Vergleichsjahr ansteigen. Aus dem Dauerbild erkennt man, daß 1954 nicht ein mittleres Abflußjahr ist, wie man nach der Niederschlagssumme hätte erwarten können, sondern daß es sich als ausgesprochen abflußarm erweist. Diese Feststellung findet man bei den Abflußwerten der einzelnen Pegel auf den Seiten 60–84 bestätigt. Der Grund für die verhältnismäßig geringen oberirdischen Abflüsse liegt in der erheblichen Auffüllung der Grundwasserspeicherräume. Beim Vergleich der Gesamtabflüsse des tidefreien Wesergebietes (Seite 12) ergibt sich, daß der Abfluß im Winterhalbjahr 1954 nur 30<sup>0</sup>/<sub>10</sub> des Winterabflusses der Jahresreihe 1941–1950 beträgt. Dagegen sind im Sommerhalbjahr 130<sup>0</sup>/<sub>10</sub> im Vergleich zur gleichen Jahresreihe abgeflossen.

Die **Grundwasserstände** lagen bei Beginn des Abflußjahres weit unter den Mittelwerten. Zufolge der Niederschlagsarmut der ersten 8 Monate des Abflußjahres besserte sich der außergewöhnlich langanhaltende Tiefstand nicht. Erst die im Juli einsetzenden Starkregen ließen die Grundwasserstände im ganzen Wesergebiet rasch über die Mittelwerte ansteigen. Dank der anhaltenden ergiebigen Regenfälle konnte am Ende des Abflußjahres im Wesergebiet ein weit über dem langjährigen Durchschnitt liegender Grundwasserstand festgestellt werden. Das durch den trockenen Winter beeinflusste Jahresmittel liegt allerdings noch etwas unter dem der Jahresreihe 1941–1950.

Die Edertalsperre war zu Beginn des Abflußjahres fast geleert. Trotz Drosselung des Abflusses aus der Sperre gelang es nicht, die Sperre bis zum Monat Mai wieder zu füllen. Der seit Monaten behinderten Schifffahrt wurde ab Mai durch Zuschußwasser geholfen. Im August waren die Weserwasserstände so gestiegen, daß kein Wasserzuschuß zur Aufrechterhaltung der Schifffahrt mehr erforderlich war.

# Der Charakter des Abflußjahres 1954



Landesstelle für Gewässerkunde, Hannover

Charakterbild

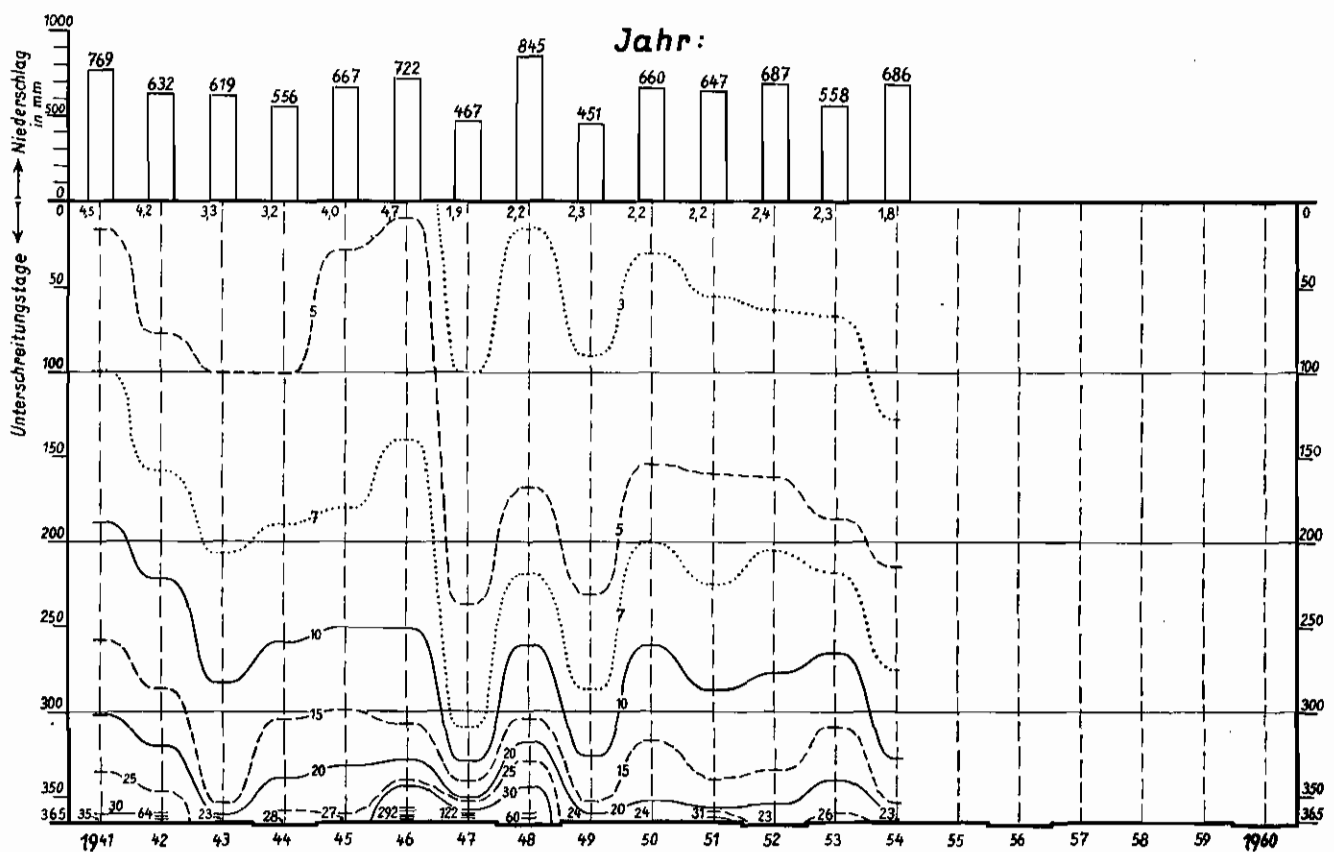
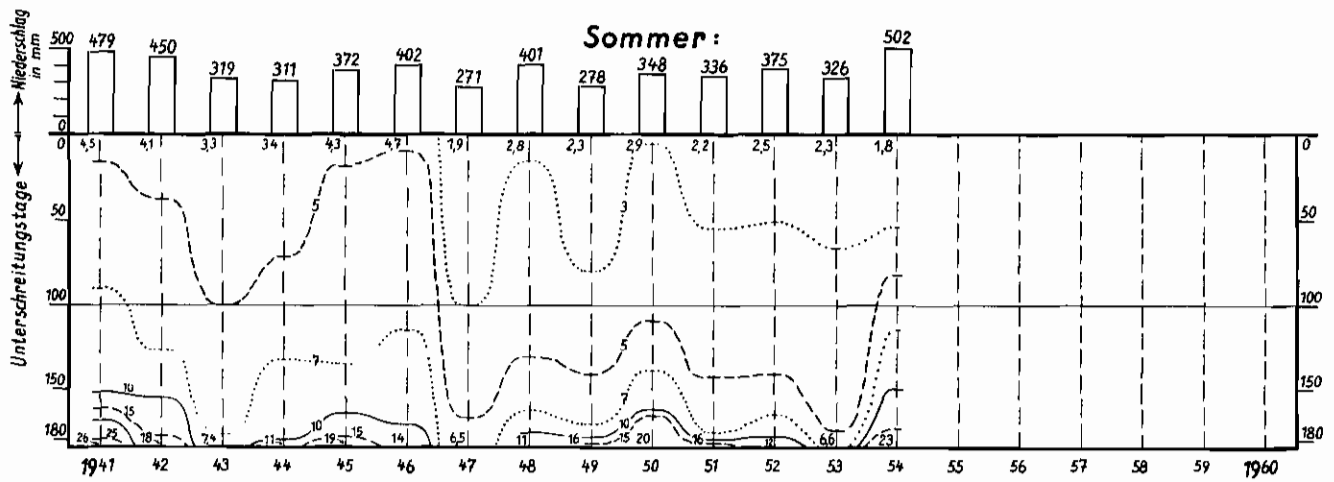
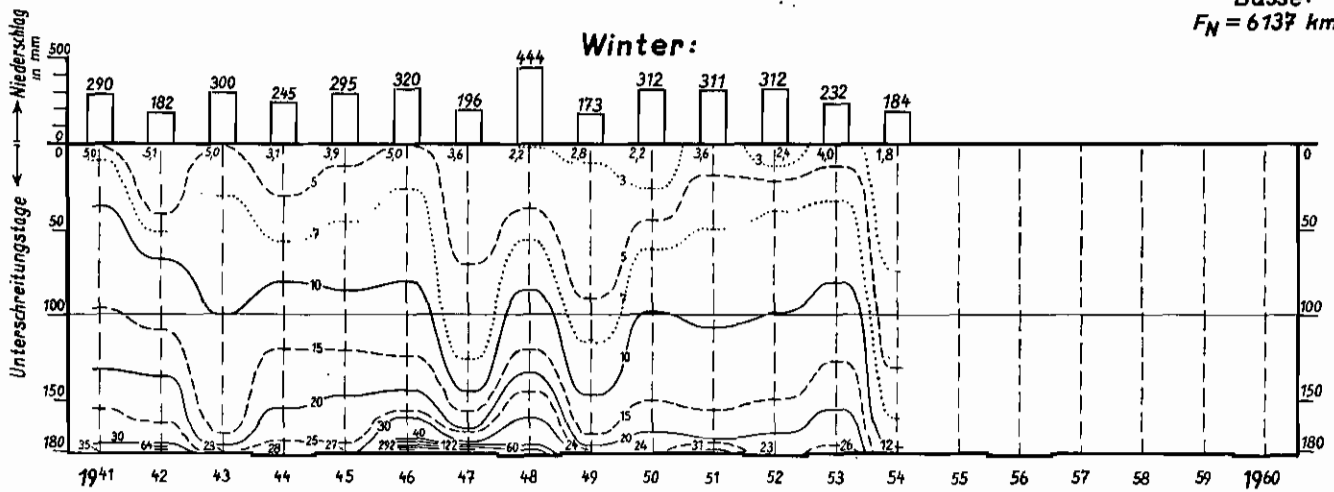
Wesergebiet

Abflußjahr 1954

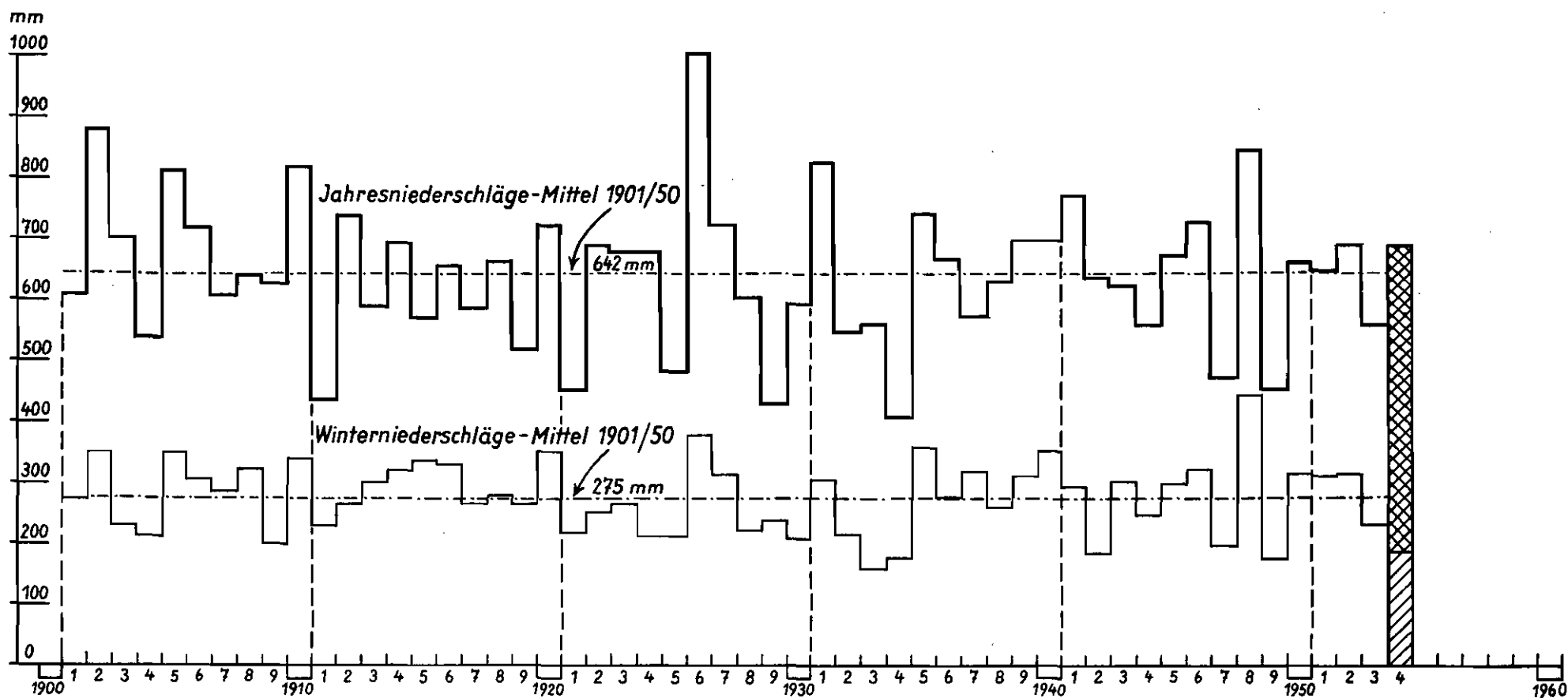
# Spenden-Dauerbild für Basse/Leine

Niederschläge Langenhagen/Hannover

Basse:  
 $F_N = 6137 \text{ km}^2$



# Die Niederschläge des Jahres 1954 im Vergleich zur Jahresreihe 1901/50 ( Station Langenhagen )





| Lfd. Nr.  | Bauwerk   | Mbl. R H   | Abgeber       | Empfänger                   | Nov         | Dez         | Januar      | Februar     | März        | April       | Mai         | Juni        | Juli        | August      | Sept        | Okt         | Wi          | So          | Jahr        |             |             |       |        |       |        |       |         |        |         |        |         |        |           |       |       |   |
|---|---|--|---------------|-----------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------|--------|-------|--------|-------|---------|--------|---------|--------|---------|--------|-----------|-------|-------|---|
|   |   |  |               |                             | Abgb. Zugb. | Abgb. Zugb. | Abgb. Zugb. | Abgb. Zugb. | Abgb. Zugb. | Abgb. Zugb. | Abgb. Zugb. | Abgb. Zugb. | Abgb. Zugb. | Abgb. Zugb. | Abgb. Zugb. | Abgb. Zugb. | Abgb. Zugb. | Abgb. Zugb. | Abgb. Zugb. | Abgb. Zugb. | Abgb. Zugb. |       |        |       |        |       |         |        |         |        |         |        |           |       |       |   |
| 1   | 2   | 3  | 4             | 5                           | 6           | 7           | 8           | 9           | 10          | 11          | 12          | 13          | 14          | 15          | 16          | 17          | 18          | 19          | 20          |             |             |       |        |       |        |       |         |        |         |        |         |        |           |       |       |   |
| Berichtsjahr 1954   |   |  |               |                             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |       |        |       |        |       |         |        |         |        |         |        |           |       |       |   |
| tidefreies Wesergebiet (Intschede) = 37 769 km <sup>2</sup> |   |  |               |                             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |       |        |       |        |       |         |        |         |        |         |        |           |       |       |   |
| 1   | Pumpwerk Minden   | 3619<br>34.95.100<br>57.96.380                           | Weser         | Mittellandkanal             | 9,63        | —           | 4,87        | —           | —           | 2,18        | —           | 2,30        | —           | 3,41        | —           | 0,13        | 9,98        | —           | 1,36        | —           | 3,04        | —     | —      | 7,61  | —      | 2,78  | —       | 11,02  | 14,50   | 8,02   | 24,38   | 21,41  | 38,88     | 29,43 |       |   |
| 2   | Hoyaer Meliorationskanal                                    | 3120<br>35.09.920<br>58.51.920                           | Weser         | Ochtum Tidegebiet der Weser | 2,10        | —           | —           | —           | —           | —           | —           | —           | —           | 0,10        | —           | —           | 4,87        | —           | 4,82        | —           | 4,10        | —     | —      | 1,29  | —      | 2,18  | —       | 1,61   | —       | —      | 2,20    | —      | 18,87     | —     | 21,07 | — |
| 3   | Allerentlaster (im Drömling)<br>Entlaster I<br>Entlaster II | 3531<br>44.27.130<br>58.15.000<br>44.28.500<br>58.13.700 | Aller (Weser) | Mittellandkanal/Elbe        | 0,27        | —           | 0,21        | —           | 1,06        | —           | 1,07        | —           | 1,30        | —           | 0,83        | —           | 1,84        | —           | 0,37        | —           | 0,61        | —     | —      | 2,10  | —      | 2,58  | —       | 5,64   | —       | —      | 4,74    | —      | 13,14     | —     | 17,88 | — |
| Σ Nr. 1 bis 3   |   |  |               |                             | 12,00       | —           | 5,08        | —           | 1,06        | 2,18        | 1,07        | 2,30        | 1,30        | 3,41        | 0,93        | 0,13        | 16,69       | —           | 16,55       | —           | 7,75        | —     | 3,39   | 7,61  | 4,76   | 2,78  | 7,25    | 11,02  | 21,44   | 8,02   | 56,39   | 21,41  | 77,83     | 29,43 |       |   |
| Σ (Abgabe - Zugabe)   |   |  |               |                             | +12,00      | —           | +5,08       | —           | —           | -1,12       | —           | -1,23       | —           | -2,11       | +0,80       | —           | +16,69      | —           | +16,55      | —           | +7,75       | —     | —      | -4,22 | +1,98  | —     | —       | -3,77  | +13,42  | —      | +34,98  | —      | +48,40    | —     |       |   |
| Abfluß bei Intschede  |   |  |               |                             | 272,63      | —           | 267,71      | —           | 544,58      | —           | 480,33      | —           | 579,92      | —           | 598,06      | —           | 330,27      | —           | 286,66      | —           | 556,70      | —     | 801,01 | —     | 651,23 | —     | 1198,45 | —      | 2543,23 | —      | 3847,05 | —      | 6390,28   | —     |       |   |
| Σ (Abgabe - Zugabe)   |   |  |               |                             | +12,00      | —           | +5,08       | —           | -1,12       | —           | -1,23       | —           | -2,11       | +0,80       | —           | +16,69      | —           | +16,55      | —           | +7,75       | —           | -4,22 | —      | +1,98 | —      | -3,77 | —       | +13,42 | —       | +34,98 | —       | +48,40 | —         |       |       |   |
| Gesamtabfluß des tidefreien Wesergebietes                   |   |  |               |                             | 284,63      | —           | 272,79      | —           | 543,46      | —           | 279,10      | —           | 577,81      | —           | 598,86      | —           | 346,96      | —           | 303,21      | —           | 564,45      | —     | 796,79 | —     | 653,26 | —     | 1194,68 | —      | 2556,65 | —      | 3882,03 | —      | 6438,68   | —     |       |   |
| Vergleichsreihe 1941/1950                                   |   |  |               |                             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |       |        |       |        |       |         |        |         |        |         |        |           |       |       |   |
| 1   | Pumpwerk Minden   |  |               |                             | 1,34        | 1,70        | 1,90        | 1,31        | 2,55        | 0,07        | 4,33        | 0,20        | 2,77        | 0,22        | 1,85        | 0,68        | 0,49        | 1,38        | 0,42        | 1,88        | 0,62        | 3,14  | 0,26   | 3,17  | 0,04   | 3,31  | 0,32    | 3,76   | 14,74   | 4,18   | 2,15    | 16,64  | 16,89     | 20,82 |       |   |
| 2   | Hoyaer Meliorationskanal                                    |  |               |                             | 1,85        | —           | 4,81        | —           | 10,1        | —           | 17,0        | —           | 0,82        | —           | 0,89        | —           | 4,30        | —           | 3,70        | —           | 4,33        | —     | 4,27   | —     | 3,76   | —     | 4,25    | —      | 35,47   | —      | 24,61   | —      | 60,08     | —     |       |   |
| 3   | Allerentlaster  |  |               |                             | 1,90        | —           | 2,01        | —           | 3,83        | —           | 6,18        | —           | 6,36        | —           | 4,03        | —           | 1,90        | —           | 1,50        | —           | 0,89        | —     | 0,61   | —     | 5,51   | —     | 1,39    | —      | 24,31   | —      | 11,80   | —      | 36,11     | —     |       |   |
| Σ Nr. 1 bis 3   |   |  |               |                             | 5,09        | 1,70        | 8,72        | 1,31        | 16,48       | 0,07        | 27,51       | 0,20        | 9,95        | 0,22        | 6,77        | 0,68        | 6,69        | 1,38        | 5,62        | 1,88        | 5,84        | 3,14  | 5,14   | 3,17  | 9,31   | 3,31  | 5,96    | 3,76   | 74,52   | 4,18   | 38,56   | 16,64  | 113,08    | 20,82 |       |   |
| Σ (Abgabe - Zugabe)   |   |  |               |                             | +3,39       | —           | +7,41       | —           | +16,41      | —           | +27,31      | —           | +9,73       | —           | +6,09       | —           | +5,31       | —           | +3,74       | —           | +2,70       | —     | -1,97  | —     | +6,00  | —     | +2,20   | —      | +70,34  | —      | +21,92  | —      | +92,26    | —     |       |   |
| Abfluß bei Intschede  |   |  |               |                             | 775,01      | —           | 956,19      | —           | 1149,03     | —           | 1491,13     | —           | 1406,16     | —           | 1005,69     | —           | 632,10      | —           | 544,32      | —           | 487,47      | —     | 476,76 | —     | 399,17 | —     | 474,08  | —      | 7583,21 | —      | 3013,90 | —      | 10 597,11 | —     |       |   |
| Σ (Abgabe - Zugabe)   |   |  |               |                             | +3,39       | —           | +7,41       | —           | +16,41      | —           | +27,31      | —           | +9,73       | —           | +6,09       | —           | +5,31       | —           | +3,74       | —           | +2,70       | —     | -1,97  | —     | +6,00  | —     | +2,20   | —      | +70,34  | —      | +21,92  | —      | +92,26    | —     |       |   |
| Gesamtabfluß des tidefreien Wesergebietes                   |   |  |               |                             | 778,40      | —           | 963,60      | —           | 1165,44     | —           | 1518,44     | —           | 1415,89     | —           | 1011,78     | —           | 637,41      | —           | 548,06      | —           | 490,17      | —     | 478,73 | —     | 405,17 | —     | 476,28  | —      | 7653,55 | —      | 3035,82 | —      | 10 689,37 | —     |       |   |

# **Wasserstände**

**Tägliche Wasserstände, Hauptzahlen und Dauerzahlen  
nach Unterschreitungen**

Main data table with columns for months (Nov-Dec, Jan, Febr-März, April, Mai, Juni, Juli, Aug, Sept, Okt) and rows for daily water levels (cm) for two gauges: Hann.-Münden and Sieburg. Includes summary statistics at the bottom.

Summary statistics table titled 'Hauptzahlen (cm)'. Columns: Nov, Dez, Jan, Febr, März, Apr, Mai, Juni, Juli, Aug, Sept, Okt, Wi, So, Jahr. Rows: 1954, 1941/1950.

Table titled 'Äußerste Wasserstände' (Outermost Water Levels). Columns: NW, HW, NNW, HHW. Rows: 1954, 1941/1950, seit 1915/1941.

Eisverhältnisse 1954: Grundeis an 2 Tagen, Eisbewegung an 4 Tagen, Eisstand an 6 Tagen, Randeis an 27 Tagen. (Similar text for Sieburg gauge on the right)

| Weser  |                   |      |                  |                   |      |           |                     |          |      |      |      |       | Pegel: Karlshafen            |     |           |                                 |  |     |             |  |  |                                 |  |  |  |
|--|-------------------|------|------------------|-------------------|------|-----------|---------------------|----------|------|------|------|-------|------------------------------|-----|-----------|---------------------------------|--|-----|-------------|--|--|---------------------------------|--|--|--|
| 45,25 km unterhalb der Vereinigung Werra-Fulda<br>PN = NN + 93,14 m n. S. FN = 14 794 km²<br>12-Uhr-Ablesungen [Q s. S. 61]    |                   |      |                  |                   |      |           |                     |          |      |      |      |       | Dauerzahlen der Wasserstände |     |           |                                 |  |     |             |  |  |                                 |  |  |  |
|  |                   |      |                  |                   |      |           |                     |          |      |      |      |       | Wasserstand                  |     |           | Unterschreitungs-dauer in Tagen |  |     | Wasserstand |  |  | Unterschreitungs-dauer in Tagen |  |  |  |
| cm   |                   |      | 1954             |                   |      | 1941/1950 |                     |          | cm   |      |      | 1954  |                              |     | 1941/1950 |                                 |  |     |             |  |  |                                 |  |  |  |
| <b>Tageswerte (cm)</b>   |                   |      |                  |                   |      |           |                     |          |      |      |      |       |                              |     |           |                                 |  |     |             |  |  |                                 |  |  |  |
| Tag  | Nov               | Dez  | Jan              | Febr              | März | April     | Mai                 | Juni     | Juli | Aug  | Sept | Okt   |                              |     |           |                                 |  |     |             |  |  |                                 |  |  |  |
| 1.   | 196               | 174  | 183              | 188 <sup>†</sup>  | 283  | 238       | 214                 | 216      | 203  | 221  | 230  | 296   |                              |     |           |                                 |  |     |             |  |  |                                 |  |  |  |
| 2.   | 206               | 170  | 175              | 338 <sup>  </sup> | 306  | 246       | 212                 | 220      | 202  | 221  | 224  | 330   |                              |     |           |                                 |  |     |             |  |  |                                 |  |  |  |
| 3.   | 191               | 164  | 175              | 344 <sup>  </sup> | 262  | 258       | 214                 | 221      | 203  | 215  | 223  | 366   |                              |     |           |                                 |  |     |             |  |  |                                 |  |  |  |
| 4.   | 182               | 170  | 169              | 344 <sup>  </sup> | 240  | 282       | 213                 | 211      | 199  | 212  | 255  | 342   |                              |     |           |                                 |  |     |             |  |  |                                 |  |  |  |
| 5.   | 184               | 171  | 174              | 339 <sup>  </sup> | 220  | 304       | 216                 | 209      | 205  | 213  | 235  | 326   |                              |     |           |                                 |  |     |             |  |  |                                 |  |  |  |
| 6.   | 181               | 171  | 178 <sup>†</sup> | 342 <sup>  </sup> | 248  | 294       | 212                 | 206      | 203  | 215  | 241  | 345   |                              |     |           |                                 |  |     |             |  |  |                                 |  |  |  |
| 7.   | 180               | 165  | 171 <sup>†</sup> | 336 <sup>  </sup> | 239  | 298       | 215                 | 205      | 201  | 231  | 230  | 384   |                              |     |           |                                 |  |     |             |  |  |                                 |  |  |  |
| 8.   | 178               | 169  | 161 <sup>†</sup> | 332 <sup>  </sup> | 223  | 292       | 208                 | 205      | 203  | 220  | 236  | 407   |                              |     |           |                                 |  |     |             |  |  |                                 |  |  |  |
| 9.   | 179               | 163  | 163 <sup>†</sup> | 337 <sup>  </sup> | 219  | 284       | 208                 | 208      | 201  | 219  | 271  | 401   |                              |     |           |                                 |  |     |             |  |  |                                 |  |  |  |
| 10.  | 178               | 166  | 167 <sup>^</sup> | 336 <sup>  </sup> | 213  | 273       | 205                 | 209      | 199  | 228  | 260  | 367   |                              |     |           |                                 |  |     |             |  |  |                                 |  |  |  |
| 11.  | 181               | 173  | 169 <sup>^</sup> | 332 <sup>  </sup> | 211  | 263       | 206                 | 209      | 197  | 215  | 248  | 349   |                              |     |           |                                 |  |     |             |  |  |                                 |  |  |  |
| 12.  | 178               | 167  | 184 <sup>^</sup> | 330 <sup>  </sup> | 208  | 254       | 207                 | 203      | 217  | 245  | 238  | 332   |                              |     |           |                                 |  |     |             |  |  |                                 |  |  |  |
| 13.  | 179               | 166  | 218 <sup>°</sup> | 326 <sup>  </sup> | 214  | 246       | 204                 | 206      | 226  | 226  | 246  | 318   |                              |     |           |                                 |  |     |             |  |  |                                 |  |  |  |
| 14.  | 178               | 165  | 222              | 320 <sup>  </sup> | 212  | 241       | 203                 | 210      | 229  | 217  | 244  | 306   |                              |     |           |                                 |  |     |             |  |  |                                 |  |  |  |
| 15.  | 175               | 168  | 223              | 312 <sup>  </sup> | 210  | 238       | 207                 | 206      | 215  | 224  | 246  | 297   |                              |     |           |                                 |  |     |             |  |  |                                 |  |  |  |
| 16.  | 174               | 169  | 249              | 308 <sup>  </sup> | 212  | 240       | 206                 | 204      | 216  | 226  | 237  | 288   |                              |     |           |                                 |  |     |             |  |  |                                 |  |  |  |
| 17.  | 181               | 161  | 292              | 285 <sup>  </sup> | 211  | 240       | 205                 | 209      | 217  | 226  | 242  | 282   |                              |     |           |                                 |  |     |             |  |  |                                 |  |  |  |
| 18.  | 170               | 168  | 316              | 271 <sup>  </sup> | 210  | 238       | 207                 | 205      | 226  | 219  | 262  | 273   |                              |     |           |                                 |  |     |             |  |  |                                 |  |  |  |
| 19.  | 173               | 160  | 282              | 255 <sup>  </sup> | 213  | 240       | 209                 | 206      | 232  | 226  | 272  | 271   |                              |     |           |                                 |  |     |             |  |  |                                 |  |  |  |
| 20.  | 177               | 166  | 264              | 240 <sup>^</sup>  | 217  | 238       | 210                 | 201      | 252  | 219  | 278  | 265   |                              |     |           |                                 |  |     |             |  |  |                                 |  |  |  |
| 21.  | 177               | 166  | 281              | 238 <sup>^</sup>  | 221  | 238       | 214                 | 202      | 261  | 208  | 263  | 263   |                              |     |           |                                 |  |     |             |  |  |                                 |  |  |  |
| 22.  | 172               | 164  | 302              | 252 <sup>†</sup>  | 226  | 238       | 211                 | 210      | 248  | 220  | 279  | 276   |                              |     |           |                                 |  |     |             |  |  |                                 |  |  |  |
| 23.  | 170               | 170  | 346              | 226 <sup>^</sup>  | 234  | 248       | 216                 | 204      | 236  | 243  | 255  | 272   |                              |     |           |                                 |  |     |             |  |  |                                 |  |  |  |
| 24.  | 176               | 168  | 291              | 189 <sup>^</sup>  | 237  | 248       | 213                 | 200      | 227  | 263  | 250  | 264   |                              |     |           |                                 |  |     |             |  |  |                                 |  |  |  |
| 25.  | 174               | 165  | 268              | 187 <sup>^</sup>  | 238  | 240       | 209                 | 201      | 216  | 252  | 246  | 267   |                              |     |           |                                 |  |     |             |  |  |                                 |  |  |  |
| 26.  | 174               | 171  | 242 <sup>†</sup> | 198 <sup>^</sup>  | 241  | 230       | 208                 | 204      | 231  | 248  | 238  | 275   |                              |     |           |                                 |  |     |             |  |  |                                 |  |  |  |
| 27.  | 171               | 171  | 214 <sup>†</sup> | 282 <sup>^</sup>  | 259  | 229       | 203                 | 200      | 253  | 242  | 242  | 286   |                              |     |           |                                 |  |     |             |  |  |                                 |  |  |  |
| 28.  | 173               | 184  | 191 <sup>†</sup> | 328 <sup>°</sup>  | 260  | 224       | 205                 | 205      | 246  | 249  | 265  | 284   |                              |     |           |                                 |  |     |             |  |  |                                 |  |  |  |
| 29.  | 167               | 191  | 188 <sup>†</sup> |                   | 259  | 220       | 206                 | 204      | 256  | 239  | 285  | 275   |                              |     |           |                                 |  |     |             |  |  |                                 |  |  |  |
| 30.  | 172               | 194  | 198 <sup>†</sup> |                   | 250  | 216       | 210                 | 201      | 241  | 228  | 282  | 278   |                              |     |           |                                 |  |     |             |  |  |                                 |  |  |  |
| 31.  |                   | 184  | 193 <sup>†</sup> |                   | 241  |           | 227                 |          | 234  | 224  |      | 274   |                              |     |           |                                 |  |     |             |  |  |                                 |  |  |  |
| Σ  | 5347              | 5274 | 6849             | 8115              | 7237 | 7538      | 6503                | 6200     | 6895 | 7054 | 7523 | 9559  |                              |     |           |                                 |  |     |             |  |  |                                 |  |  |  |
|  | Wi: n 181; 40 360 |      |                  | So: n 184; 43 734 |      |           | Jahr: n 365; 84 094 |          |      |      |      |       |                              |     |           |                                 |  |     |             |  |  |                                 |  |  |  |
| <b>Hauptzahlen (cm)</b>  |                   |      |                  |                   |      |           |                     |          |      |      |      |       |                              |     |           |                                 |  |     |             |  |  |                                 |  |  |  |
|  | Nov               | Dez  | Jan              | Febr              | März | Apr       | Mai                 | Juni     | Juli | Aug  | Sept | Okt   | Wi                           | So  | Jahr      |                                 |  |     |             |  |  |                                 |  |  |  |
| <b>1954</b>  |                   |      |                  |                   |      |           |                     |          |      |      |      |       |                              |     |           |                                 |  |     |             |  |  |                                 |  |  |  |
| am   | 29.               | 19.  | 8.               | 25.               | 12.  | 30.       | 14., 17.            | 24., 27. | 11.  | 21.  | 3.   | 21.   |                              |     |           |                                 |  |     |             |  |  |                                 |  |  |  |
| NW   | 167               | 160  | 161              | 187               | 208  | 216       | 203                 | 200      | 197  | 208  | 223  | 263   | 160                          | 197 | 160       |                                 |  |     |             |  |  |                                 |  |  |  |
| MW   | 178               | 170  | 221              | 290               | 233  | 251       | 210                 | 207      | 222  | 228  | 251  | 308   | 223                          | 238 | 230       |                                 |  |     |             |  |  |                                 |  |  |  |
| HW   | 206               | 194  | 346              | 344               | 306  | 304       | 227                 | 221      | 261  | 263  | 285  | 407   | 346                          | 407 | 407       |                                 |  |     |             |  |  |                                 |  |  |  |
| am   | 2.                | 30.  | 23.              | 3., 4.            | 2.   | 5.        | 31.                 | 3.       | 21.  | 24.  | 29.  | 8.    |                              |     |           |                                 |  |     |             |  |  |                                 |  |  |  |
| <b>19—/19—*)</b>   |                   |      |                  |                   |      |           |                     |          |      |      |      |       |                              |     |           |                                 |  |     |             |  |  |                                 |  |  |  |
| NW   |                   |      |                  |                   |      |           |                     |          |      |      |      |       |                              |     |           |                                 |  |     |             |  |  |                                 |  |  |  |
| MNW  |                   |      |                  |                   |      |           |                     |          |      |      |      |       |                              |     |           |                                 |  |     |             |  |  |                                 |  |  |  |
| MW   |                   |      |                  |                   |      |           |                     |          |      |      |      |       |                              |     |           |                                 |  |     |             |  |  |                                 |  |  |  |
| MHW  |                   |      |                  |                   |      |           |                     |          |      |      |      |       |                              |     |           |                                 |  |     |             |  |  |                                 |  |  |  |
| HW   |                   |      |                  |                   |      |           |                     |          |      |      |      |       |                              |     |           |                                 |  |     |             |  |  |                                 |  |  |  |
| HW, HW   |                   |      |                  |                   |      |           |                     |          |      |      |      |       |                              |     |           |                                 |  |     |             |  |  |                                 |  |  |  |
| <b>Außerste Wasserstände</b>   |                   |      |                  |                   |      |           |                     |          |      |      |      |       |                              |     |           |                                 |  |     |             |  |  |                                 |  |  |  |
|  |                   |      |                  |                   |      |           |                     |          |      |      |      | NW    |                              |     |           |                                 |  | HW  |             |  |  |                                 |  |  |  |
| 1954   |                   |      |                  | 160 cm            |      |           |                     |          |      |      |      | ungeh |                              |     |           | 407 cm                          |  |     |             |  |  |                                 |  |  |  |
| 19—/19—*)  |                   |      |                  | 19. Dezember 1953 |      |           |                     |          |      |      |      | überh |                              |     |           | 8. Oktober                      |  |     |             |  |  |                                 |  |  |  |
|  |                   |      |                  |                   |      |           |                     |          |      |      |      | NNW   |                              |     |           |                                 |  | HHW |             |  |  |                                 |  |  |  |
| seit 1952  |                   |      |                  | 160 cm            |      |           |                     |          |      |      |      | ungeh |                              |     |           | 522 cm                          |  |     |             |  |  |                                 |  |  |  |
|  |                   |      |                  | 19. Dezember 1953 |      |           |                     |          |      |      |      | überh |                              |     |           | 28. März 1952                   |  |     |             |  |  |                                 |  |  |  |
| <b>Eisverhältnisse 1954:</b> Randeis an 10 Tagen, Randeis und Eisbewegung an 12 Tagen, Eisstand und Eisversetzung an 18 Tagen. |                   |      |                  |                   |      |           |                     |          |      |      |      |       |                              |     |           |                                 |  |     |             |  |  |                                 |  |  |  |
| *) Jahresreihe und Grenzwerte können nicht gebracht werden, da neuer Pegel.  |                   |      |                  |                   |      |           |                     |          |      |      |      |       |                              |     |           |                                 |  |     |             |  |  |                                 |  |  |  |





Main water level table with columns for months (Nov to Okt) and years (1949 to 1954). Includes sub-headers for 'Weser' and 'Pegel: Porta' and 'Weser' and 'Pegel: Drakenburg'.

Table for 'Hauptzahlen (cm)' with columns for months and years (1954 and 1941/1950). Includes sub-headers for 'Nov', 'Dez', etc.

Table for 'Hauptzahlen (cm)' with columns for months and years (1954 and 1941/1950). Includes sub-headers for 'Nov', 'Dez', etc.

Table for 'Äußerste Wasserstände' with columns for 'NW', 'HW', 'NNW', and 'HHW'.

Table for 'Äußerste Wasserstände' with columns for 'NW', 'HW', 'NNW', and 'HHW'.

Eisverhältnisse 1954: Randeis an 2 Tagen, Eisbewegung an 15 Tagen, Eisstand an 24 Tagen.

Eisverhältnisse 1954: Grundeis an 5 Tagen, Eisstand an 31 Tagen.

Table with 13 columns for months (Nov, Dez, Jan, Febr, März, April, Mai, Juni, Juli, Aug, Sept, Okt) and 31 rows of daily water level data (Tageswerte) in cm. Includes summary statistics at the bottom.

Main numbers table (Hauptzahlen) with columns for months and years (1954, 1941/1950) for various water level types (NW, MW, etc.).

Extreme water levels table (Äußerste Wasserstände) with columns for NW and HW for 1954 and 1941/1950.

Summary table for extreme water levels with columns for NW and HW, comparing 1954 and 1941/1950 data.

Eisverhältnisse 1954: Eisbewegung an 8 Tagen, Eisstand an 32 Tagen. Schrägdruck sind 12-Uhr-Ableasungen (Baumaßnahmen am Pegel).

Wasser- und Schifffahrtsdirektion Hannover

Table header for duration of high water (Dauerzahlen der Wasserstände) with columns for water level (Wasserstand) and duration (Unterschreitungs-dauer in Tagen).

Table for Pegel: Porta showing water level and duration data for various levels (800, 780, 760, 740, 720, 700, 680, 660, 640, 620, 600, 580, 560, 540, 520, 500).

Table for Pegel: Drakenburg showing water level and duration data for various levels (900, 880, 860, 840, 820, 800, 780, 760, 740, 720, 700, 680, 660, 640, 620, 600).

Table for Pegel: Intschede showing water level and duration data for various levels (760, 740, 720, 700, 680, 660, 640, 620, 600, 580, 560, 540, 520, 500, 480, 460, 440, 420, 400).





| Werra  |                   |      |      |                   |      |       |                            |      |      |      |      | Pegel: Frankenroda           |  |                                 |           |              |                                 |           |  |
|--|-------------------|------|------|-------------------|------|-------|----------------------------|------|------|------|------|------------------------------|--|---------------------------------|-----------|--------------|---------------------------------|-----------|--|
| 91 km oberhalb der Vereinigung Werra-Fulda<br>PN = NN + 177,98 m a. S. FN = 4215 km <sup>2</sup><br>Tagesmittel  |                   |      |      |                   |      |       |                            |      |      |      |      | Dauerzahlen der Wasserstände |  |                                 |           |              |                                 |           |  |
| Tag  | Nov               | Dez  | Jan  | Febr              | März | April | Mai                        | Juni | Juli | Aug  | Sept | Okt                          | Wasser-stand                                   | Unterschreitungs-dauer in Tagen |           | Wasser-stand | Unterschreitungs-dauer in Tagen |           |  |
|  |                   |      |      |                   |      |       |                            |      |      |      |      |                              | cm   | 1954                            | 1941/1950 | cm           | 1954                            | 1941/1950 |  |
| <b>Tageswerte (cm)</b>   |                   |      |      |                   |      |       |                            |      |      |      |      |                              |  |                                 |           |              |                                 |           |  |
| 1.   | 102               | 83   | 93   | 187               | 106  | 131   | 103                        | 102  | 103  | 128  | 134  | 178                          |  |                                 |           |              |                                 |           |  |
| 2.   | 102               | 83   | 86   | 168               | 110  | 134   | 100                        | 103  | 102  | 125  | 133  | 217                          |  |                                 |           |              |                                 |           |  |
| 3.   | 102               | 84   | 86   | 161               | 103  | 141   | 101                        | 102  | 101  | 123  | 137  | 218                          |  |                                 |           |              |                                 |           |  |
| 4.   | 95                | 84   | 78   | 163               | 104  | 157   | 102                        | 104  | 100  | 123  | 142  | 212                          |  |                                 |           |              |                                 |           |  |
| 5.   | 89                | 83   | 76   | 160               | 115  | 162   | 101                        | 100  | 100  | 128  | 136  | 196                          |  |                                 |           |              |                                 |           |  |
| 6.   | 88                | 82   | 78   | 156               | 113  | 165   | 99                         | 101  | 99   | 130  | 131  | 196                          |  |                                 |           |              |                                 |           |  |
| 7.   | 85                | 81   | 77   | 151               | 106  | 163   | 100                        | 102  | 98   | 132  | 127  | 226                          |  |                                 |           |              |                                 |           |  |
| 8.   | 87                | 81   | 78   | 151               | 101  | 158   | 98                         | 108  | 100  | 134  | 128  | 225                          |  |                                 |           |              |                                 |           |  |
| 9.   | 88                | 81   | 80   | 150               | 100  | 150   | 96                         | 109  | 103  | 132  | 143  | 213                          |  |                                 |           |              |                                 |           |  |
| 10.  | 86                | 80   | 82   | 148               | 103  | 142   | 98                         | 106  | 104  | 136  | 139  | 203                          |  |                                 |           |              |                                 |           |  |
| 11.  | 88                | 80   | 84   | 150               | 105  | 137   | 101                        | 105  | 111  | 137  | 135  | 193                          |  |                                 |           |              |                                 |           |  |
| 12.  | 86                | 82   | 84   | 147               | 106  | 131   | 101                        | 106  | 116  | 131  | 134  | 182                          |  |                                 |           |              |                                 |           |  |
| 13.  | 88                | 80   | 92   | 150               | 107  | 127   | 99                         | 106  | 111  | 131  | 136  | 174                          |  |                                 |           |              |                                 |           |  |
| 14.  | 88                | 80   | 99   | 150               | 107  | 124   | 98                         | 104  | 111  | 127  | 133  | 168                          |  |                                 |           |              |                                 |           |  |
| 15.  | 90                | 76   | 99   | 145               | 107  | 122   | 98                         | 102  | 113  | 132  | 131  | 162                          |  |                                 |           |              |                                 |           |  |
| 16.  | 88                | 77   | 127  | 141               | 106  | 123   | 96                         | 101  | 118  | 139  | 132  | 157                          |  |                                 |           |              |                                 |           |  |
| 17.  | 87                | 75   | 144  | 121               | 108  | 124   | 95                         | 99   | 122  | 136  | 132  | 151                          |  |                                 |           |              |                                 |           |  |
| 18.  | 88                | 77   | 130  | 100               | 110  | 125   | 98                         | 99   | 127  | 134  | 127  | 146                          |  |                                 |           |              |                                 |           |  |
| 19.  | 87                | 78   | 121  | 89                | 112  | 124   | 94                         | 100  | 152  | 132  | 136  | 139                          |  |                                 |           |              |                                 |           |  |
| 20.  | 85                | 77   | 116  | 84                | 116  | 124   | 94                         | 99   | 158  | 132  | 147  | 136                          |  |                                 |           |              |                                 |           |  |
| 21.  | 85                | 79   | 135  | 78                | 122  | 124   | 93                         | 100  | 153  | 131  | 157  | 136                          |  |                                 |           |              |                                 |           |  |
| 22.  | 84                | 76   | 183  | 76                | 128  | 124   | 94                         | 100  | 143  | 138  | 150  | 133                          |  |                                 |           |              |                                 |           |  |
| 23.  | 85                | 76   | 154  | 73                | 131  | 124   | 96                         | 104  | 136  | 144  | 149  | 130                          |  |                                 |           |              |                                 |           |  |
| 24.  | 84                | 80   | 134  | 76                | 134  | 125   | 97                         | 104  | 130  | 163  | 146  | 129                          |  |                                 |           |              |                                 |           |  |
| 25.  | 84                | 81   | 122  | 75                | 138  | 126   | 99                         | 101  | 125  | 158  | 144  | 130                          |  |                                 |           |              |                                 |           |  |
| 26.  | 84                | 82   | 112  | 116               | 150  | 121   | 95                         | 100  | 126  | 152  | 144  | 132                          |  |                                 |           |              |                                 |           |  |
| 27.  | 84                | 85   | 118  | 157               | 154  | 112   | 94                         | 99   | 131  | 157  | 155  | 128                          |  |                                 |           |              |                                 |           |  |
| 28.  | 84                | 94   | 176  | 124               | 152  | 106   | 95                         | 102  | 138  | 150  | 173  | 126                          |  |                                 |           |              |                                 |           |  |
| 29.  | 84                | 97   | 208  | 142               | 106  |       | 101                        | 107  | 133  | 141  | 170  | 128                          |  |                                 |           |              |                                 |           |  |
| 30.  | 83                | 96   | 205  | 137               | 108  |       | 106                        | 104  | 130  | 141  | 168  | 126                          |  |                                 |           |              |                                 |           |  |
| 31.  |                   | 96   | 193  |                   | 132  |       | 104                        |      | 129  | 138  |      | 129                          |  |                                 |           |              |                                 |           |  |
| Σ  | 2640              | 2546 | 3650 | 3647              | 3665 | 3940  | 3046                       | 3079 | 3723 | 4235 | 4249 | 5119                         |  |                                 |           |              |                                 |           |  |
|  | Wi: n 181; 20 088 |      |      | So: n 184; 23 451 |      |       | Jahr: n 365; 43 539        |      |      |      |      |                              |  |                                 |           |              |                                 |           |  |
| <b>Hauptzahlen (cm)</b>  |                   |      |      |                   |      |       |                            |      |      |      |      |                              |  |                                 |           |              |                                 |           |  |
|  | Nov               | Dez  | Jan  | Febr              | März | Apr   | Mai                        | Juni | Juli | Aug  | Sept | Okt                          | Wi   | So                              | Jahr      |              |                                 |           |  |
| <b>1954</b>  |                   |      |      |                   |      |       |                            |      |      |      |      |                              |  |                                 |           |              |                                 |           |  |
| am   | 26.               | 20.  | 7.   | 23.               | 8.9. | 28.   | 19.                        | 20.  | oft  | 3.   | 7.   | 30.                          |  |                                 |           |              |                                 |           |  |
| NW   | 79                | 70   | 69   | 70                | 96   | 104   | 89                         | 94   | 96   | 114  | 122  | 122                          | 69   | 89                              | 69        |              |                                 |           |  |
| MW   | 88                | 82   | 118  | 130               | 118  | 131   | 98                         | 103  | 120  | 137  | 142  | 165                          | 111  | 127                             | 119       |              |                                 |           |  |
| HW   | 108               | 104  | 218  | 191               | 156  | 167   | 109                        | 117  | 162  | 164  | 178  | 231                          | 218  | 231                             | 231       |              |                                 |           |  |
| am   | 2.                | 29.  | 29.  | 1.                | 27.  | 6.    | 30.                        | 29.  | 20.  | 24.  | 24.  | 7.                           |  |                                 |           |              |                                 |           |  |
| <b>1941/1950*)</b>   |                   |      |      |                   |      |       |                            |      |      |      |      |                              |  |                                 |           |              |                                 |           |  |
| NW   |                   |      |      |                   |      |       |                            |      |      |      |      |                              | 70   | 56                              | 56        |              |                                 |           |  |
| MNW  | 97                | 99   | 110  | 115               | 117  | 117   | 102                        | 102  | 95   | 87   | 84   | 85                           | 88   | 80                              | 78        |              |                                 |           |  |
| MW   | 123               | 132  | 153  | 170               | 168  | 151   | 117                        | 122  | 114  | 105  | 98   | 104                          | 149  | 110                             | 130       |              |                                 |           |  |
| MHW  | 179               | 200  | 232  | 247               | 249  | 200   | 157                        | 162  | 152  | 134  | 118  | 133                          | 330  | 189                             | 330       |              |                                 |           |  |
| HW   |                   |      |      |                   |      |       |                            |      |      |      |      |                              | 440  | 303                             | 440       |              |                                 |           |  |
| HW, HW   |                   |      |      |                   |      |       |                            |      |      |      |      |                              |  |                                 |           |              |                                 |           |  |
| <b>Äußerste Wasserstände</b>   |                   |      |      |                   |      |       |                            |      |      |      |      |                              |  |                                 |           |              |                                 |           |  |
|  | NW                |      |      |                   |      |       | HW                         |      |      |      |      |                              |  |                                 |           |              |                                 |           |  |
|  | 1954              |      |      |                   |      |       | 69 cm<br>7. Januar         |      |      |      |      |                              | ungeh } 231 cm<br>überh } 7. Oktober           |                                 |           |              |                                 |           |  |
|  | 1941/1950*)       |      |      |                   |      |       | 56 cm<br>8. September 1947 |      |      |      |      |                              | ungeh } 440 cm<br>überh } 9., 10. Oktober 1946 |                                 |           |              |                                 |           |  |
|  | NNW               |      |      |                   |      |       | HHW                        |      |      |      |      |                              |  |                                 |           |              |                                 |           |  |
|  | seit 1924         |      |      |                   |      |       | 56 cm<br>8. September 1947 |      |      |      |      |                              | ungeh } 454 cm<br>überh } 1. Januar 1926       |                                 |           |              |                                 |           |  |
| <b>Eisverhältnisse 1954:</b> keine Angaben.  |                   |      |      |                   |      |       |                            |      |      |      |      |                              |  |                                 |           |              |                                 |           |  |
| *) ohne 1945.<br>Als NW sind bei den Hauptzahlen die absoluten tiefsten Wasserstände angegeben, nicht, wie in der Bundesrepublik, die niedrigsten Tagesmittel. |                   |      |      |                   |      |       |                            |      |      |      |      |                              |  |                                 |           |              |                                 |           |  |
| Hauptamt für Hydrologie, Berlin C 2  |                   |      |      |                   |      |       |                            |      |      |      |      |                              |  |                                 |           |              |                                 |           |  |



| Fulda  |                   | Pegel: Kämmerzell |                  |                   |      |       |                     |      |      |      |      |      |
|--|-------------------|-------------------|------------------|-------------------|------|-------|---------------------|------|------|------|------|------|
| 177 km oberhalb der Vereinigung Werra-Fulda<br>PN = NN + 232,08 m FN = 562 km <sup>2</sup><br>Tagesmittel [Q s. S. 67] |                   |                   |                  |                   |      |       |                     |      |      |      |      |      |
| Tag  | Nov               | Dez               | Jan              | Febr              | März | April | Mai                 | Juni | Juli | Aug  | Sept | Okt  |
| <b>Tageswerte (cm)</b>   |                   |                   |                  |                   |      |       |                     |      |      |      |      |      |
| 1.   | 140               | 128               | 125              | 126 <sup>^</sup>  | 181  | 141   | 131                 | 128  | 128  | 141  | 145  | 200  |
| 2.   | 135               | 127               | 125              | 124 <sup>^</sup>  | 142  | 156   | 131                 | 129  | 131  | 140  | 143  | 194  |
| 3.   | 134               | 126               | 124              | 124 <sup>^</sup>  | 136  | 169   | 132                 | 128  | 128  | 137  | 169  | 178  |
| 4.   | 133               | 126               | 122              | 124 <sup>^</sup>  | 147  | 172   | 132                 | 128  | 125  | 136  | 165  | 169  |
| 5.   | 135               | 126               | 123              | 124 <sup>^</sup>  | 150  | 177   | 131                 | 125  | 128  | 136  | 153  | 164  |
| 6.   | 130               | 125               | 122              | 124 <sup>^</sup>  | 138  | 170   | 130                 | 125  | 128  | 134  | 151  | 211  |
| 7.   | 131               | 130               | 123              | 122 <sup>^</sup>  | 133  | 167   | 128                 | 128  | 129  | 139  | 149  | 255  |
| 8.   | 129               | 130               | 122              | 125 <sup>^</sup>  | 132  | 164   | 128                 | 129  | 124  | 137  | 150  | 226  |
| 9.   | 132               | 129               | 124              | 124 <sup>^</sup>  | 133  | 156   | 126                 | 127  | 126  | 142  | 149  | 198  |
| 10.  | 130               | 129               | 123              | 125 <sup>^</sup>  | 134  | 153   | 126                 | 125  | 127  | 149  | 145  | 187  |
| 11.  | 129               | 130               | 128              | 126 <sup>^</sup>  | 134  | 147   | 126                 | 126  | 129  | 145  | 148  | 180  |
| 12.  | 130               | 130               | 129              | 131 <sup>!</sup>  | 133  | 146   | 125                 | 126  | 132  | 149  | 148  | 175  |
| 13.  | 131               | 128               | 125              | 136 <sup>!</sup>  | 133  | 144   | 126                 | 126  | 133  | 146  | 148  | 170  |
| 14.  | 129               | 131               | 138              | 130 <sup>!</sup>  | 132  | 142   | 124                 | 129  | 134  | 146  | 146  | 166  |
| 15.  | 128               | 129               | 140              | 130 <sup>!</sup>  | 131  | 141   | 122                 | 127  | 139  | 151  | 146  | 162  |
| 16.  | 132               | 130               | 197              | 127 <sup>!</sup>  | 133  | 144   | 121                 | 126  | 139  | 151  | 144  | 159  |
| 17.  | 130               | 128               | 167              | 124 <sup>!</sup>  | 134  | 143   | 125                 | 123  | 136  | 151  | 147  | 157  |
| 18.  | 127               | 129               | 151              | 123 <sup>o</sup>  | 135  | 141   | 124                 | 126  | 162  | 147  | 146  | 155  |
| 19.  | 130               | 129               | 145              | 123               | 135  | 140   | 124                 | 124  | 167  | 148  | 147  | 156  |
| 20.  | 128               | 127               | 140              | 122               | 136  | 142   | 124                 | 121  | 158  | 145  | 167  | 171  |
| 21.  | 128               | 131               | 185              | 121               | 137  | 147   | 130                 | 123  | 146  | 144  | 164  | 164  |
| 22.  | 126               | 130               | 177              | 122               | 137  | 146   | 126                 | 122  | 141  | 148  | 159  | 158  |
| 23.  | 128               | 128               | 154              | 123               | 135  | 141   | 126                 | 124  | 138  | 171  | 155  | 155  |
| 24.  | 128               | 126               | 141              | 122               | 134  | 138   | 128                 | 124  | 137  | 160  | 151  | 155  |
| 25.  | 124               | 126               | 136              | 121               | 137  | 136   | 128                 | 126  | 137  | 154  | 149  | 172  |
| 26.  | 128               | 128               | 131              | 200               | 137  | 138   | 126                 | 126  | 146  | 151  | 181  | 164  |
| 27.  | 128               | 131               | 127 <sup>^</sup> | 181               | 140  | 135   | 121                 | 126  | 164  | 147  | 203  | 157  |
| 28.  | 128               | 133               | 127 <sup>^</sup> | 198               | 137  | 134   | 125                 | 130  | 151  | 147  | 206  | 161  |
| 29.  | 128               | 131               | 127 <sup>^</sup> |                   | 135  | 132   | 124                 | 122  | 142  | 161  | 179  | 155  |
| 30.  | 131               | 132               | 127 <sup>^</sup> |                   | 135  | 132   | 132                 | 126  | 143  | 151  | 174  | 154  |
| 31.  |                   | 126               | 124 <sup>^</sup> |                   | 135  |       | 129                 |      | 143  | 148  |      | 164  |
| Σ  | 3900              | 3989              | 4249             | 3702              | 4261 | 4434  | 3931                | 3775 | 4291 | 4552 | 4727 | 5392 |
|  | Wi: n 181; 24 535 |                   |                  | So: n 184; 26 668 |      |       | Jahr: n 365; 51 203 |      |      |      |      |      |

| Dauerzahlen der Wasserstände |                                 |      |             |                                 |    |
|------------------------------|---------------------------------|------|-------------|---------------------------------|----|
| Wasserstand                  | Unterschreitungs-dauer in Tagen |      | Wasserstand | Unterschreitungs-dauer in Tagen |    |
|                              | cm                              | 1954 |             | 1941/1950                       | cm |
| <b>Pegel: Ludwigstein</b>    |                                 |      |             |                                 |    |
| 300                          |                                 | 365  |             |                                 |    |
| 280                          |                                 | 364  |             |                                 |    |
| 260                          |                                 | 361  |             |                                 |    |
| 240                          |                                 | 354  |             |                                 |    |
| 220                          |                                 | 348  |             |                                 |    |
| 200                          |                                 | 333  |             |                                 |    |
| 180                          |                                 | 302  |             |                                 |    |
| 160                          |                                 | 228  |             |                                 |    |
| 140                          |                                 | 166  |             |                                 |    |
| 120                          |                                 | 96   |             |                                 |    |
| 100                          |                                 | 2    |             |                                 |    |

| Pegel: Unterbreizbach |                                 |      |             |                                 |    |
|-----------------------|---------------------------------|------|-------------|---------------------------------|----|
| Wasserstand           | Unterschreitungs-dauer in Tagen |      | Wasserstand | Unterschreitungs-dauer in Tagen |    |
|                       | cm                              | 1954 |             | 1941/1950                       | cm |
| 140                   |                                 | 365  |             |                                 |    |
| 120                   |                                 | 363  |             |                                 |    |
| 100                   |                                 | 353  |             |                                 |    |
| 80                    |                                 | 322  |             |                                 |    |
| 60                    |                                 | 166  |             |                                 |    |

| Pegel: Kämmerzell |                                 |      |             |                                 |    |
|-------------------|---------------------------------|------|-------------|---------------------------------|----|
| Wasserstand       | Unterschreitungs-dauer in Tagen |      | Wasserstand | Unterschreitungs-dauer in Tagen |    |
|                   | cm                              | 1954 |             | 1941/1950                       | cm |
| 260               |                                 | 365  |             |                                 |    |
| 240               |                                 | 364  |             |                                 |    |
| 220               |                                 | 363  |             |                                 |    |
| 200               |                                 | 358  |             |                                 |    |
| 180               |                                 | 348  |             |                                 |    |
| 160               |                                 | 315  |             |                                 |    |
| 140               |                                 | 226  |             |                                 |    |

| Hauptzahlen (cm) |     |     |     |          |      |          |          |      |      |     |      |     |     |     |      |
|------------------|-----|-----|-----|----------|------|----------|----------|------|------|-----|------|-----|-----|-----|------|
|                  | Nov | Dez | Jan | Febr     | März | Apr      | Mai      | Juni | Juli | Aug | Sept | Okt | Wi  | So  | Jahr |
| <b>1954</b>      |     |     |     |          |      |          |          |      |      |     |      |     |     |     |      |
| am               | 25. | 6.  | oft | 21., 25. | 15.  | 29., 30. | 16., 27. | 20.  | 8.   | 6.  | 2.   | 30. |     |     |      |
| NW               | 124 | 125 | 122 | 121      | 131  | 132      | 121      | 121  | 124  | 134 | 143  | 154 | 121 | 121 | 121  |
| MW               | 130 | 129 | 137 | 132      | 137  | 148      | 127      | 126  | 138  | 147 | 158  | 174 | 136 | 145 | 140  |
| HW               | 143 | 139 | 218 | 269      | 221  | 188      | 137      | 139  | 185  | 181 | 221  | 262 | 269 | 262 | 269  |
| am               | 1.  | 27. | 21. | 26.      | 1.   | 5.       | 30.      | 2.   | 18.  | 23. | 28.  | 7.  |     |     |      |

| Äußerste Wasserstände |   |                                       |
|-----------------------|---|---------------------------------------|
|                       | NW  | HW                                    |
| 1954                  | 121 cm 21., 25. Febr,<br>16., 27. Mai, 20. Juni | ungeh } 269 cm<br>überh } 26. Februar |
| 19-19-*)              |   | ungeh<br>überh                        |
|                       | NNW   | HHW                                   |
| seit *)               |   | ungeh<br>überh                        |

Eisverhältnisse 1954: Randeis an 16 Tagen, Eisbewegung an 6 Tagen.

\*) Jahresreihe und Grenzwerte können nicht gebracht werden, da neuer Pegel.  
Wasserwirtschaftsamt Fulda

| Fulda   |                    |      |      |      |       |                           |      |      |      |      |           | Pegel: Rotenburg                                   |      |      |     |      |                         |       |      |      |      |      |      | Eder   |      |      |      |      |      |       |     |      |      |     |      | Pegel: Schmittlotheim                              |     |     |     |      |      |       |     |      |      |     |      |     |    |     |    |    |    |    |    |    |     |    |    |    |    |    |     |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |     |    |    |    |     |    |    |    |    |    |    |    |    |     |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |     |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |  |    |  |    |  |    |    |    |  |  |   |     |     |      |      |      |      |     |     |      |      |      |      |  |                 |                  |                    |                 |                  |                    |
|---|--------------------|------|------|------|-------|---------------------------|------|------|------|------|-----------|--|------|------|-----|------|-------------------------|-------|------|------|------|------|------|--|------|------|------|------|------|-------|-----|------|------|-----|------|--|-----|-----|-----|------|------|-------|-----|------|------|-----|------|-----|----|-----|----|----|----|----|----|----|-----|----|----|----|----|----|-----|----|----|----|----|----|----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|----|----|----|----|----|----|----|----|----|----|----|----|-----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|-----|----|----|----|----|----|----|----|----|----|----|----|----|-----|----|----|-----|----|----|----|----|----|----|----|----|----|-----|----|----|----|----|----|----|----|----|----|----|----|----|-----|----|----|----|----|----|----|----|----|----|----|----|----|-----|----|----|-----|----|----|----|----|----|----|----|----|----|-----|----|----|-----|----|----|----|----|----|----|----|----|----|-----|----|----|-----|----|----|----|----|----|----|----|----|----|-----|----|----|----|----|----|----|----|----|-----|----|----|----|-----|----|----|----|----|----|----|----|----|-----|----|----|----|-----|----|----|-----|----|----|----|----|----|----|----|----|----|-----|----|----|-----|----|----|----|----|----|----|----|----|----|-----|----|----|-----|----|----|----|----|----|----|----|----|----|-----|----|----|----|----|----|----|----|----|----|----|----|----|-----|----|----|----|----|----|----|----|----|----|-----|----|----|-----|----|----|----|----|----|----|----|----|----|-----|----|----|-----|----|----|----|----|----|----|----|----|----|----|----|----|-----|----|----|----|----|----|----|----|----|----|----|-----|----|-----|----|----|----|----|----|----|----|----|----|-----|----|----|-----|----|----|----|----|----|----|----|----|----|-----|----|----|-----|----|----|--|----|--|----|--|----|----|----|--|--|---|-----|-----|------|------|------|------|-----|-----|------|------|------|------|--|-----------------|------------------|--------------------|-----------------|------------------|--------------------|
| 95,3 km oberhalb der Vereinigung Werra-Fulda  |                    |      |      |      |       |                           |      |      |      |      |           | PN = NN + 180,50 m a. S. FN = 2515 km <sup>2</sup> |      |      |     |      |                         |       |      |      |      |      |      | 74,5 km oberhalb der Mündung   |      |      |      |      |      |       |     |      |      |     |      | PN = NN + 240,82 m a. S. FN = 1202 km <sup>2</sup> |     |     |     |      |      |       |     |      |      |     |      |     |    |     |    |    |    |    |    |    |     |    |    |    |    |    |     |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |     |    |    |    |     |    |    |    |    |    |    |    |    |     |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |     |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |  |    |  |    |  |    |    |    |  |  |   |     |     |      |      |      |      |     |     |      |      |      |      |  |                 |                  |                    |                 |                  |                    |
| Tagesmittel [Q s. S. 68]  |                    |      |      |      |       |                           |      |      |      |      |           |  |      |      |     |      |                         |       |      |      |      |      |      | Tagesmittel [Q s. S. 70]   |      |      |      |      |      |       |     |      |      |     |      |  |     |     |     |      |      |       |     |      |      |     |      |     |    |     |    |    |    |    |    |    |     |    |    |    |    |    |     |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |     |    |    |    |     |    |    |    |    |    |    |    |    |     |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |     |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |  |    |  |    |  |    |    |    |  |  |   |     |     |      |      |      |      |     |     |      |      |      |      |  |                 |                  |                    |                 |                  |                    |
| Nov   | Dez                | Jan  | Febr | März | April | Mai                       | Juni | Juli | Aug  | Sept | Okt       | Tag  | Nov  | Dez  | Jan | Febr | März                    | April | Mai  | Juni | Juli | Aug  | Sept | Okt  | Nov  | Dez  | Jan  | Febr | März | April | Mai | Juni | Juli | Aug | Sept | Okt  | Nov | Dez | Jan | Febr | März | April | Mai | Juni | Juli | Aug | Sept | Okt |    |     |    |    |    |    |    |    |     |    |    |    |    |    |     |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |     |    |    |    |     |    |    |    |    |    |    |    |    |     |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |     |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |  |    |  |    |  |    |    |    |  |  |   |     |     |      |      |      |      |     |     |      |      |      |      |  |                 |                  |                    |                 |                  |                    |
| Tageswerte (cm)   |                    |      |      |      |       |                           |      |      |      |      |           |  |      |      |     |      |                         |       |      |      |      |      |      | Tageswerte (cm)  |      |      |      |      |      |       |     |      |      |     |      |  |     |     |     |      |      |       |     |      |      |     |      |     |    |     |    |    |    |    |    |    |     |    |    |    |    |    |     |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |     |    |    |    |     |    |    |    |    |    |    |    |    |     |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |     |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |  |    |  |    |  |    |    |    |  |  |   |     |     |      |      |      |      |     |     |      |      |      |      |  |                 |                  |                    |                 |                  |                    |
| 57  | 29                 | 34   | 50   | 174  | 58    | 43                        | 47   | 30   | 60   | 48   | 107       | 1.   | 37   | 25   | 39  | 57   | 74                      | 70    | 36   | 35   | 32   | 79   | 67   | 107  | 2.   | 33   | 24   | 44   | 66   | 60    | 90  | 37   | 36   | 30  | 75   | 62   | 113 | 3.  | 33  | 25   | 58   | 73    | 62  | 102  | 38   | 38  | 28   | 70  | 59 | 109 | 4. | 32 | 26 | 71 | 73 | 86 | 107 | 37 | 37 | 30 | 65 | 56 | 102 | 5. | 31 | 27 | 68 | 65 | 79 | 105 | 36 | 34 | 35 | 62 | 53 | 93 | 6. | 30 | 26 | 57 | 58 | 63 | 96 | 34 | 32 | 39 | 59 | 52 | 93 | 7. | 30 | 27 | 58 | 52 | 55 | 86 | 33 | 36 | 40 | 60 | 52 | 100 | 8. | 30 | 25 | 59 | 54 | 55 | 78 | 33 | 35 | 40 | 61 | 78 | 109 | 9. | 31 | 25 | 57 | 55 | 57 | 71 | 31 | 33 | 37 | 62 | 78 | 109 | 10. | 29 | 26 | 57 | 56 | 58 | 65 | 31 | 32 | 35 | 59 | 69 | 100 | 11. | 28 | 26 | 62 | 57 | 58 | 60 | 29 | 32 | 37 | 60 | 67 | 92 | 12. | 28 | 25 | 71 | 56 | 57 | 56 | 29 | 31 | 39 | 68 | 75 | 84 | 13. | 28 | 25 | 102 | 60 | 56 | 53 | 28 | 31 | 38 | 70 | 78 | 76 | 14. | 28 | 26 | 96 | 63 | 55 | 50 | 27 | 36 | 39 | 71 | 77 | 71 | 15. | 28 | 25 | 89 | 59 | 53 | 50 | 26 | 37 | 43 | 73 | 75 | 67 | 16. | 30 | 24 | 128 | 55 | 52 | 54 | 24 | 35 | 48 | 74 | 72 | 63 | 17. | 29 | 25 | 127 | 50 | 54 | 51 | 25 | 33 | 48 | 75 | 73 | 60 | 18. | 28 | 24 | 111 | 48 | 54 | 48 | 27 | 32 | 67 | 73 | 69 | 58 | 19. | 29 | 24 | 95 | 46 | 58 | 48 | 25 | 31 | 101 | 74 | 68 | 56 | 20. | 28 | 23 | 90 | 44 | 65 | 49 | 25 | 31 | 108 | 70 | 70 | 56 | 21. | 28 | 25 | 126 | 42 | 72 | 49 | 27 | 31 | 97 | 67 | 68 | 53 | 22. | 27 | 24 | 136 | 41 | 72 | 47 | 30 | 31 | 84 | 73 | 67 | 51 | 23. | 27 | 24 | 112 | 40 | 73 | 46 | 27 | 30 | 74 | 96 | 70 | 53 | 24. | 27 | 26 | 93 | 40 | 73 | 45 | 28 | 30 | 68 | 99 | 68 | 54 | 25. | 27 | 25 | 88 | 39 | 75 | 44 | 28 | 30 | 61 | 101 | 69 | 58 | 26. | 26 | 27 | 82 | 96 | 75 | 44 | 27 | 29 | 66 | 102 | 78 | 60 | 27. | 26 | 30 | 67 | 71 | 75 | 42 | 24 | 31 | 83 | 96 | 96 | 59 | 28. | 25 | 36 | 61 | 70 | 72 | 41 | 24 | 38 | 83 | 92 | 106 | 67 | 29. | 26 | 41 | 66 | 69 | 39 | 23 | 35 | 85 | 86 | 104 | 69 | 69 | 30. | 27 | 41 | 65 | 65 | 38 | 28 | 32 | 86 | 78 | 100 | 72 | 72 | 31. | 39 | 59 |  | 64 |  | 37 |  | 83 | 71 | 74 |  |  | Σ | 866 | 841 | 2494 | 1586 | 1996 | 1824 | 914 | 994 | 1784 | 2321 | 2176 | 2388 |  | Wi: n 181; 9758 | So: n 184; 11258 | Jahr: n 365; 21016 | Wi: n 181; 9607 | So: n 184; 10577 | Jahr: n 365; 20184 |
| Hauptzahlen (cm)  |                    |      |      |      |       |                           |      |      |      |      |           |  |      |      |     |      |                         |       |      |      |      |      |      | Hauptzahlen (cm)   |      |      |      |      |      |       |     |      |      |     |      |  |     |     |     |      |      |       |     |      |      |     |      |     |    |     |    |    |    |    |    |    |     |    |    |    |    |    |     |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |     |    |    |    |     |    |    |    |    |    |    |    |    |     |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |     |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |  |    |  |    |  |    |    |    |  |  |   |     |     |      |      |      |      |     |     |      |      |      |      |  |                 |                  |                    |                 |                  |                    |
| Nov   | Dez                | Jan  | Febr | März | Apr   | Mai                       | Juni | Juli | Aug  | Sept | Okt       | Wi   | So   | Jahr | Nov | Dez  | Jan                     | Febr  | März | Apr  | Mai  | Juni | Juli | Aug  | Sept | Okt  | Wi   | So   | Jahr |       |     |      |      |     |      |  |     |     |     |      |      |       |     |      |      |     |      |     |    |     |    |    |    |    |    |    |     |    |    |    |    |    |     |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |     |    |    |    |     |    |    |    |    |    |    |    |    |     |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |     |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |  |    |  |    |  |    |    |    |  |  |   |     |     |      |      |      |      |     |     |      |      |      |      |  |                 |                  |                    |                 |                  |                    |
| 1954  |                    |      |      |      |       |                           |      |      |      |      |           |  |      |      |     |      |                         |       |      |      |      |      |      | 1954   |      |      |      |      |      |       |     |      |      |     |      |  |     |     |     |      |      |       |     |      |      |     |      |     |    |     |    |    |    |    |    |    |     |    |    |    |    |    |     |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |     |    |    |    |     |    |    |    |    |    |    |    |    |     |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |     |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |  |    |  |    |  |    |    |    |  |  |   |     |     |      |      |      |      |     |     |      |      |      |      |  |                 |                  |                    |                 |                  |                    |
| 23.   | 22.                | 6.   | 25.  | 15.  | 30.   | 17.                       | 29.  | 11.  | 8.   | 2.   | 19.       |  |      |      | am  | 28.  | 20.                     | 1.    | 25.  | 16.  | 30.  | 29.  | 26.  | 3.   | 6.   | 6.   | 7.   | 22.  |      |       |     |      |      |     |      |  |     |     |     |      |      |       |     |      |      |     |      |     |    |     |    |    |    |    |    |    |     |    |    |    |    |    |     |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |     |    |    |    |     |    |    |    |    |    |    |    |    |     |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |     |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |  |    |  |    |  |    |    |    |  |  |   |     |     |      |      |      |      |     |     |      |      |      |      |  |                 |                  |                    |                 |                  |                    |
| 26.   | 23.                | 21.  | 32.  | 44.  | 45.   | 22.                       | 27.  | 28.  | 40.  | 45.  | 70.       | 21.  | 22.  | 21.  | NW  | 25.  | 23.                     | 39.   | 39.  | 52.  | 38.  | 23.  | 29.  | 28.  | 59.  | 52.  | 51.  | 23.  | 23.  | 23.   |     |      |      |     |      |  |     |     |     |      |      |       |     |      |      |     |      |     |    |     |    |    |    |    |    |    |     |    |    |    |    |    |     |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |     |    |    |    |     |    |    |    |    |    |    |    |    |     |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |     |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |  |    |  |    |  |    |    |    |  |  |   |     |     |      |      |      |      |     |     |      |      |      |      |  |                 |                  |                    |                 |                  |                    |
| 32.   | 29.                | 68.  | 57.  | 61.  | 78.   | 38.                       | 38.  | 50.  | 65.  | 68.  | 107.      | 54.  | 61.  | 58.  | MW  | 29.  | 27.                     | 80.   | 57.  | 64.  | 61.  | 29.  | 33.  | 58.  | 75.  | 73.  | 77.  | 53.  | 57.  | 55.   |     |      |      |     |      |  |     |     |     |      |      |       |     |      |      |     |      |     |    |     |    |    |    |    |    |    |     |    |    |    |    |    |     |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |     |    |    |    |     |    |    |    |    |    |    |    |    |     |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |     |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |  |    |  |    |  |    |    |    |  |  |   |     |     |      |      |      |      |     |     |      |      |      |      |  |                 |                  |                    |                 |                  |                    |
| 70.   | 49.                | 206. | 262. | 196. | 153.  | 72.                       | 71.  | 131. | 158. | 145. | 245.      | 202.   | 245. | 262. | HW  | 39.  | 43.                     | 142.  | 168. | 97.  | 109. | 40.  | 41.  | 111.   | 105. | 107. | 115. | 168. | 115. | 168.  |     |      |      |     |      |  |     |     |     |      |      |       |     |      |      |     |      |     |    |     |    |    |    |    |    |    |     |    |    |    |    |    |     |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |     |    |    |    |     |    |    |    |    |    |    |    |    |     |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |     |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |  |    |  |    |  |    |    |    |  |  |   |     |     |      |      |      |      |     |     |      |      |      |      |  |                 |                  |                    |                 |                  |                    |
| 1.  | 30.                | 22.  | 27.  | 1.   | 4.    | 31.                       | 2.   | 19.  | 11.  | 28.  | 7.        |  |      |      | am  | 1.   | 29.                     | 21.   | 26.  | 4.   | 4.   | 31.  | 28.  | 20.  | 26.  | 28.  | 2.   |      |      |       |     |      |      |     |      |  |     |     |     |      |      |       |     |      |      |     |      |     |    |     |    |    |    |    |    |    |     |    |    |    |    |    |     |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |     |    |    |    |     |    |    |    |    |    |    |    |    |     |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |     |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |  |    |  |    |  |    |    |    |  |  |   |     |     |      |      |      |      |     |     |      |      |      |      |  |                 |                  |                    |                 |                  |                    |
| 1941/1950   |                    |      |      |      |       |                           |      |      |      |      |           |  |      |      |     |      |                         |       |      |      |      |      |      | 1941/1950  |      |      |      |      |      |       |     |      |      |     |      |  |     |     |     |      |      |       |     |      |      |     |      |     |    |     |    |    |    |    |    |    |     |    |    |    |    |    |     |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |     |    |    |    |     |    |    |    |    |    |    |    |    |     |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |     |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |  |    |  |    |  |    |    |    |  |  |   |     |     |      |      |      |      |     |     |      |      |      |      |  |                 |                  |                    |                 |                  |                    |
| 10.   | 16.                | 24.  | 18.  | 39.  | 31.   | 25.                       | 15.  | 16.  | 3.   | -20. | 9.        | 10.  | -20. | -20. | NW  | 11.  | 23.                     | 31.   | 37.  | 32.  | 32.  | 20.  | 15.  | 10.  | 9.   | 7.   | 7.   | 11.  | 7.   | 7.    |     |      |      |     |      |  |     |     |     |      |      |       |     |      |      |     |      |     |    |     |    |    |    |    |    |    |     |    |    |    |    |    |     |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |     |    |    |    |     |    |    |    |    |    |    |    |    |     |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |     |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |  |    |  |    |  |    |    |    |  |  |   |     |     |      |      |      |      |     |     |      |      |      |      |  |                 |                  |                    |                 |                  |                    |
| 36.   | 40.                | 49.  | 58.  | 60.  | 49.   | 39.                       | 34.  | 29.  | 23.  | 20.  | 27.       | 26.  | 14.  | 13.  | MNW | 33.  | 42.                     | 51.   | 49.  | 44.  | 38.  | 28.  | 28.  | 22.  | 23.  | 23.  | 25.  | 29.  | 18.  | 17.   |     |      |      |     |      |  |     |     |     |      |      |       |     |      |      |     |      |     |    |     |    |    |    |    |    |    |     |    |    |    |    |    |     |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |     |    |    |    |     |    |    |    |    |    |    |    |    |     |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |     |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |  |    |  |    |  |    |    |    |  |  |   |     |     |      |      |      |      |     |     |      |      |      |      |  |                 |                  |                    |                 |                  |                    |
| 78.   | 89.                | 95.  | 140. | 117. | 88.   | 57.                       | 58.  | 52.  | 51.  | 42.  | 48.       | 101.   | 51.  | 76.  | MW  | 57.  | 70.                     | 78.   | 86.  | 70.  | 61.  | 39.  | 40.  | 38.  | 36.  | 37.  | 39.  | 70.  | 37.  | 54.   |     |      |      |     |      |  |     |     |     |      |      |       |     |      |      |     |      |     |    |     |    |    |    |    |    |    |     |    |    |    |    |    |     |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |     |    |    |    |     |    |    |    |    |    |    |    |    |     |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |     |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |  |    |  |    |  |    |    |    |  |  |   |     |     |      |      |      |      |     |     |      |      |      |      |  |                 |                  |                    |                 |                  |                    |
| 177.  | 214.               | 209. | 256. | 225. | 168.  | 109.                      | 112. | 113. | 103. | 74.  | 95.       | 350.   | 168. | 350. | MHW | 111. | 135.                    | 136.  | 151. | 135. | 104. | 62.  | 62.  | 63.  | 54.  | 57.  | 64.  | 213. | 93.  | 213.  |     |      |      |     |      |  |     |     |     |      |      |       |     |      |      |     |      |     |    |     |    |    |    |    |    |    |     |    |    |    |    |    |     |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |     |    |    |    |     |    |    |    |    |    |    |    |    |     |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |     |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |  |    |  |    |  |    |    |    |  |  |   |     |     |      |      |      |      |     |     |      |      |      |      |  |                 |                  |                    |                 |                  |                    |
| 440.  | 416.               | 375. | 440. | 413. | 346.  | 228.                      | 228. | 300. | 262. | 156. | 276.      | 440.   | 300. | 440. | HW  | 278. | 269.                    | 275.  | 311. | 262. | 163. | 104. | 96.  | 108.   | 100. | 120. | 127. | 311. | 127. | 311.  |     |      |      |     |      |  |     |     |     |      |      |       |     |      |      |     |      |     |    |     |    |    |    |    |    |    |     |    |    |    |    |    |     |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |     |    |    |    |     |    |    |    |    |    |    |    |    |     |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |     |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |  |    |  |    |  |    |    |    |  |  |   |     |     |      |      |      |      |     |     |      |      |      |      |  |                 |                  |                    |                 |                  |                    |
|   |                    |      |      |      |       |                           |      |      |      |      |           |  |      |      | HW  |      |                         |       |      |      |      |      |      |  |      |      |      |      |      |       |     |      |      |     |      |  |     |     |     |      |      |       |     |      |      |     |      |     |    |     |    |    |    |    |    |    |     |    |    |    |    |    |     |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |     |    |    |    |     |    |    |    |    |    |    |    |    |     |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |     |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |  |    |  |    |  |    |    |    |  |  |   |     |     |      |      |      |      |     |     |      |      |      |      |  |                 |                  |                    |                 |                  |                    |
| Äußerste Wasserstände   |                    |      |      |      |       |                           |      |      |      |      |           |  |      |      |     |      |                         |       |      |      |      |      |      | Äußerste Wasserstände  |      |      |      |      |      |       |     |      |      |     |      |  |     |     |     |      |      |       |     |      |      |     |      |     |    |     |    |    |    |    |    |    |     |    |    |    |    |    |     |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |     |    |    |    |     |    |    |    |    |    |    |    |    |     |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |     |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |  |    |  |    |  |    |    |    |  |  |   |     |     |      |      |      |      |     |     |      |      |      |      |  |                 |                  |                    |                 |                  |                    |
| NW  |                    |      |      |      |       | HW                        |      |      |      |      |           | NW   |      |      |     |      |                         | HW    |      |      |      |      |      |  |      |      |      |      |      |       |     |      |      |     |      |  |     |     |     |      |      |       |     |      |      |     |      |     |    |     |    |    |    |    |    |    |     |    |    |    |    |    |     |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |     |    |    |    |     |    |    |    |    |    |    |    |    |     |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |     |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |  |    |  |    |  |    |    |    |  |  |   |     |     |      |      |      |      |     |     |      |      |      |      |  |                 |                  |                    |                 |                  |                    |
| 1954  | 21 cm              |      |      |      |       | ungeh } 262 cm            |      |      |      |      | 1954      | 23 cm  |      |      |     |      | ungeh } 168 cm          |       |      |      |      |      |      |  |      |      |      |      |      |       |     |      |      |     |      |  |     |     |     |      |      |       |     |      |      |     |      |     |    |     |    |    |    |    |    |    |     |    |    |    |    |    |     |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |     |    |    |    |     |    |    |    |    |    |    |    |    |     |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |     |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |  |    |  |    |  |    |    |    |  |  |   |     |     |      |      |      |      |     |     |      |      |      |      |  |                 |                  |                    |                 |                  |                    |
|   | 6. Januar          |      |      |      |       | überh } 27. Februar       |      |      |      |      |           | 20. Dez 1953, 29. Mai                              |      |      |     |      | überh } 26. Februar     |       |      |      |      |      |      |  |      |      |      |      |      |       |     |      |      |     |      |  |     |     |     |      |      |       |     |      |      |     |      |     |    |     |    |    |    |    |    |    |     |    |    |    |    |    |     |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |     |    |    |    |     |    |    |    |    |    |    |    |    |     |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |     |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |  |    |  |    |  |    |    |    |  |  |   |     |     |      |      |      |      |     |     |      |      |      |      |  |                 |                  |                    |                 |                  |                    |
| 1941/1950   | -20 cm             |      |      |      |       | ungeh } 440 cm            |      |      |      |      | 1941/1950 | 7 cm   |      |      |     |      | ungeh } 311 cm          |       |      |      |      |      |      |  |      |      |      |      |      |       |     |      |      |     |      |  |     |     |     |      |      |       |     |      |      |     |      |     |    |     |    |    |    |    |    |    |     |    |    |    |    |    |     |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |     |    |    |    |     |    |    |    |    |    |    |    |    |     |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |     |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |  |    |  |    |  |    |    |    |  |  |   |     |     |      |      |      |      |     |     |      |      |      |      |  |                 |                  |                    |                 |                  |                    |
|   | 12. September 1949 |      |      |      |       | überh } 9. Februar 1946   |      |      |      |      |           | oft  |      |      |     |      | überh } 9. Februar 1946 |       |      |      |      |      |      |  |      |      |      |      |      |       |     |      |      |     |      |  |     |     |     |      |      |       |     |      |      |     |      |     |    |     |    |    |    |    |    |    |     |    |    |    |    |    |     |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |     |    |    |    |     |    |    |    |    |    |    |    |    |     |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |     |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |  |    |  |    |  |    |    |    |  |  |   |     |     |      |      |      |      |     |     |      |      |      |      |  |                 |                  |                    |                 |                  |                    |
| NNW   |                    |      |      |      |       | HHW                       |      |      |      |      |           | NNW  |      |      |     |      |                         | HHW   |      |      |      |      |      |  |      |      |      |      |      |       |     |      |      |     |      |  |     |     |     |      |      |       |     |      |      |     |      |     |    |     |    |    |    |    |    |    |     |    |    |    |    |    |     |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |     |    |    |    |     |    |    |    |    |    |    |    |    |     |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |     |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |  |    |  |    |  |    |    |    |  |  |   |     |     |      |      |      |      |     |     |      |      |      |      |  |                 |                  |                    |                 |                  |                    |
| seit 1928   | -20 cm             |      |      |      |       | ungeh } 470 cm            |      |      |      |      | seit 1906 | 1 cm   |      |      |     |      | ungeh } 311 cm          |       |      |      |      |      |      |  |      |      |      |      |      |       |     |      |      |     |      |  |     |     |     |      |      |       |     |      |      |     |      |     |    |     |    |    |    |    |    |    |     |    |    |    |    |    |     |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |     |    |    |    |     |    |    |    |    |    |    |    |    |     |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |     |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |  |    |  |    |  |    |    |    |  |  |   |     |     |      |      |      |      |     |     |      |      |      |      |  |                 |                  |                    |                 |                  |                    |
|   | 12. September 1949 |      |      |      |       | überh } 31. Dezember 1925 |      |      |      |      |           | 11. Sept, 16. Okt 1921                             |      |      |     |      | überh } 9. Februar 1946 |       |      |      |      |      |      |  |      |      |      |      |      |       |     |      |      |     |      |  |     |     |     |      |      |       |     |      |      |     |      |     |    |     |    |    |    |    |    |    |     |    |    |    |    |    |     |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |     |    |    |    |     |    |    |    |    |    |    |    |    |     |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |     |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |  |    |  |    |  |    |    |    |  |  |   |     |     |      |      |      |      |     |     |      |      |      |      |  |                 |                  |                    |                 |                  |                    |
| Eisverhältnisse 1954: Randeis an 3 Tagen, Eisstand an 11 Tagen, Eisbewegung an 6 Tagen. |                    |      |      |      |       |                           |      |      |      |      |           |  |      |      |     |      |                         |       |      |      |      |      |      | Eisverhältnisse 1954: Randeis an 1 Tag, Randeis und Eisbewegung an 10 Tagen, Eisbewegung an 2 Tagen, Eisstand an 34 Tagen, Eisversetzung an 2 Tagen. |      |      |      |      |      |       |     |      |      |     |      |  |     |     |     |      |      |       |     |      |      |     |      |     |    |     |    |    |    |    |    |    |     |    |    |    |    |    |     |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |     |    |    |    |     |    |    |    |    |    |    |    |    |     |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |     |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |  |    |  |    |  |    |    |    |  |  |   |     |     |      |      |      |      |     |     |      |      |      |      |  |                 |                  |                    |                 |                  |                    |

| Eder   |                   |      |                             |                   |          |       |                     |      |   |      |      |      | Pegel: Affoldern             |                                     |           |                        |                                     |           |
|--|-------------------|------|-----------------------------|-------------------|----------|-------|---------------------|------|---|------|------|------|------------------------------|-------------------------------------|-----------|------------------------|-------------------------------------|-----------|
| 43,6 km oberhalb der Mündung<br>PN = NN + 193,13 m a. S. FN = 1452 km <sup>3</sup><br>Tagesmittel [Q s. S. 70] |                   |      |                             |                   |          |       |                     |      |   |      |      |      | Dauerzahlen der Wasserstände |                                     |           |                        |                                     |           |
| Tag  | Nov               | Dez  | Jan                         | Febr              | März     | April | Mai                 | Juni | Juli                                      | Aug  | Sept | Okt  | Wasser-<br>staud<br>cm       | Unterschreitungs-<br>dauer in Tagen |           | Wasser-<br>stand<br>cm | Unterschreitungs-<br>dauer in Tagen |           |
|  |                   |      |                             |                   |          |       |                     |      |   |      |      |      |                              | 1954                                | 1941/1950 |                        | 1954                                | 1941/1950 |
| <b>Tageswerte (cm)</b>   |                   |      |                             |                   |          |       |                     |      |   |      |      |      |                              |                                     |           |                        |                                     |           |
| 1.   | 123               | 110  | 106                         | 113               | 114      | 118   | 126                 | 163  | 197                                       | 139  | 151  | 148  |                              |                                     |           |                        |                                     |           |
| 2.   | 122               | 110  | 106                         | 114               | 114      | 118   | 128                 | 155  | 197                                       | 143  | 153  | 148  |                              |                                     |           |                        |                                     |           |
| 3.   | 123               | 110  | 107                         | 113               | 114      | 118   | 128                 | 153  | 198                                       | 153  | 146  | 148  |                              |                                     |           |                        |                                     |           |
| 4.   | 123               | 110  | 107                         | 111               | 114      | 118   | 127                 | 154  | 198                                       | 168  | 140  | 147  |                              |                                     |           |                        |                                     |           |
| 5.   | 122               | 110  | 107                         | 113               | 114      | 118   | 128                 | 156  | 199                                       | 178  | 141  | 146  |                              |                                     |           |                        |                                     |           |
| 6.   | 122               | 111  | 107                         | 113               | 114      | 118   | 128                 | 160  | 199                                       | 180  | 141  | 146  |                              |                                     |           |                        |                                     |           |
| 7.   | 123               | 110  | 107                         | 114               | 114      | 117   | 127                 | 166  | 199                                       | 174  | 141  | 144  |                              |                                     |           |                        |                                     |           |
| 8.   | 123               | 109  | 107                         | 114               | 114      | 117   | 132                 | 168  | 200                                       | 171  | 140  | 146  |                              |                                     |           |                        |                                     |           |
| 9.   | 123               | 108  | 108                         | 114               | 114      | 117   | 138                 | 166  | 200                                       | 152  | 141  | 146  |                              |                                     |           |                        |                                     |           |
| 10.  | 124               | 108  | 109                         | 113               | 113      | 118   | 142                 | 164  | 201                                       | 137  | 141  | 145  |                              |                                     |           |                        |                                     |           |
| 11.  | 124               | 108  | 109                         | 113               | 113      | 118   | 146                 | 170  | 202                                       | 137  | 140  | 145  |                              |                                     |           |                        |                                     |           |
| 12.  | 124               | 107  | 111                         | 113               | 114      | 118   | 151                 | 174  | 199                                       | 135  | 140  | 146  |                              |                                     |           |                        |                                     |           |
| 13.  | 123               | 107  | 114                         | 113               | 114      | 119   | 154                 | 177  | 185                                       | 134  | 143  | 146  |                              |                                     |           |                        |                                     |           |
| 14.  | 123               | 106  | 113                         | 113               | 116      | 119   | 148                 | 178  | 183                                       | 142  | 146  | 146  |                              |                                     |           |                        |                                     |           |
| 15.  | 122               | 105  | 114                         | 112               | 119      | 118   | 173                 | 182  | 186                                       | 146  | 150  | 146  |                              |                                     |           |                        |                                     |           |
| 16.  | 123               | 106  | 114                         | 112               | 120      | 117   | 163                 | 183  | 174                                       | 131  | 169  | 146  |                              |                                     |           |                        |                                     |           |
| 17.  | 123               | 106  | 114                         | 112               | 121      | 118   | 160                 | 181  | 168                                       | 130  | 190  | 146  |                              |                                     |           |                        |                                     |           |
| 18.  | 123               | 107  | 114                         | 112               | 121      | 118   | 164                 | 179  | 151                                       | 133  | 196  | 147  |                              |                                     |           |                        |                                     |           |
| 19.  | 122               | 107  | 114                         | 113               | 122      | 118   | 168                 | 181  | 140                                       | 144  | 191  | 147  |                              |                                     |           |                        |                                     |           |
| 20.  | 122               | 106  | 113                         | 113               | 122      | 118   | 165                 | 186  | 141                                       | 154  | 180  | 152  |                              |                                     |           |                        |                                     |           |
| 21.  | 123               | 106  | 114                         | 113               | 122      | 117   | 161                 | 190  | 142                                       | 157  | 171  | 157  |                              |                                     |           |                        |                                     |           |
| 22.  | 123               | 106  | 113                         | 114               | 122      | 117   | 160                 | 192  | 140                                       | 154  | 149  | 158  |                              |                                     |           |                        |                                     |           |
| 23.  | 123               | 106  | 113                         | 114               | 121      | 117   | 156                 | 193  | 146                                       | 139  | 148  | 158  |                              |                                     |           |                        |                                     |           |
| 24.  | 119               | 106  | 113                         | 113               | 121      | 117   | 153                 | 194  | 160                                       | 128  | 148  | 161  |                              |                                     |           |                        |                                     |           |
| 25.  | 115               | 106  | 113                         | 113               | 118      | 118   | 155                 | 193  | 148                                       | 127  | 149  | 163  |                              |                                     |           |                        |                                     |           |
| 26.  | 115               | 106  | 113                         | 113               | 117      | 117   | 161                 | 193  | 141                                       | 142  | 148  | 163  |                              |                                     |           |                        |                                     |           |
| 27.  | 115               | 107  | 113                         | 113               | 117      | 118   | 166                 | 194  | 143                                       | 145  | 148  | 162  |                              |                                     |           |                        |                                     |           |
| 28.  | 113               | 107  | 113                         | 114               | 118      | 117   | 171                 | 193  | 140                                       | 129  | 149  | 162  |                              |                                     |           |                        |                                     |           |
| 29.  | 113               | 107  | 114                         | 113               | 117      | 117   | 176                 | 193  | 141                                       | 139  | 148  | 163  |                              |                                     |           |                        |                                     |           |
| 30.  | 111               | 107  | 113                         | 113               | 118      | 121   | 166                 | 195  | 140                                       | 149  | 149  | 164  |                              |                                     |           |                        |                                     |           |
| 31.  |                   | 106  | 113                         | 113               | 118      |       | 163                 |      | 139                                       | 149  |      | 163  |                              |                                     |           |                        |                                     |           |
| Σ  | 3627              | 3331 | 3446                        | 3165              | 3631     | 3534  | 4684                | 5326 | 5297                                      | 4539 | 4587 | 4705 |                              |                                     |           |                        |                                     |           |
|  | Wi: n 181; 20 734 |      |                             | So: n 184; 29 138 |          |       | Jahr: n 365; 49 872 |      |   |      |      |      |                              |                                     |           |                        |                                     |           |
| <b>Hauptzahlen (cm)</b>  |                   |      |                             |                   |          |       |                     |      |   |      |      |      |                              |                                     |           |                        |                                     |           |
|  | Nov               | Dez  | Jan                         | Febr              | März     | Apr   | Mai                 | Juni | Juli                                      | Aug  | Sept | Okt  | Wi                           | So                                  | Jahr      |                        |                                     |           |
| <b>1954</b>  |                   |      |                             |                   |          |       |                     |      |   |      |      |      |                              |                                     |           |                        |                                     |           |
| am   | 30.               | 15.  | 1., 2.                      | 2.                | 10., 11. | oft   | 1.                  | 3.   | 31.                                       | 25.  | oft  | 7.   |                              |                                     |           |                        |                                     |           |
| NW   | 111               | 105  | 106                         | 111               | 113      | 117   | 126                 | 153  | 139                                       | 127  | 140  | 144  | 105                          | 126                                 | 105       |                        |                                     |           |
| MW   | 121               | 107  | 111                         | 113               | 117      | 118   | 151                 | 178  | 171                                       | 146  | 153  | 152  | 115                          | 158                                 | 137       |                        |                                     |           |
| HW   | 128               | 112  | 124                         | 117               | 124      | 128   | 179                 | 198  | 204                                       | 186  | 198  | 166  | 128                          | 204                                 | 204       |                        |                                     |           |
| am   | 13.               | 4.   | 21.                         | 8.                | 15.      | 10.   | 29.                 | 30.  | 11.                                       | 6.   | 17.  | 31.  |                              |                                     |           |                        |                                     |           |
| <b>1941/1950</b>   |                   |      |                             |                   |          |       |                     |      |   |      |      |      |                              |                                     |           |                        |                                     |           |
| NW   | 78                | 74   | 96                          | 97                | 97       | 98    | 104                 | 97   | 96  | 104  | 104  | 77   | 74                           | 77                                  | 74        |                        |                                     |           |
| MNW  | 121               | 124  | 125                         | 118               | 119      | 121   | 117                 | 119  | 125                                       | 123  | 121  | 120  | 108                          | 108                                 | 103       |                        |                                     |           |
| MW   | 150               | 155  | 157                         | 166               | 141      | 150   | 132                 | 137  | 148                                       | 152  | 152  | 147  | 153                          | 145                                 | 148       |                        |                                     |           |
| MHW  | 197               | 201  | 203                         | 245               | 182      | 214   | 168                 | 169  | 191                                       | 195  | 185  | 189  | 281                          | 213                                 | 286       |                        |                                     |           |
| HW   | 300               | 279  | 387                         | 454               | 252      | 248   | 247                 | 247  | 247                                       | 230  | 225  | 233  | 454                          | 247                                 | 454       |                        |                                     |           |
| HW   |                   |      |                             |                   |          |       |                     |      |   |      |      |      |                              |                                     |           |                        |                                     |           |
| HW   |                   |      |                             |                   |          |       |                     |      |   |      |      |      |                              |                                     |           |                        |                                     |           |
| <b>Äußerste Wasserstände</b>   |                   |      |                             |                   |          |       |                     |      |   |      |      |      |                              |                                     |           |                        |                                     |           |
|  |                   |      | NW                          |                   |          |       |                     |      | HW  |      |      |      |                              |                                     |           |                        |                                     |           |
| 1954   |                   |      | 105 cm<br>15. Dezember 1953 |                   |          |       |                     |      | uugeh } 204 cm<br>überh } 11. Mai         |      |      |      |                              |                                     |           |                        |                                     |           |
| 1941/1950  |                   |      | 74 cm<br>13., 14. Dez 1948  |                   |          |       |                     |      | uugeh } 454 cm<br>überh } 9. Februar 1946 |      |      |      |                              |                                     |           |                        |                                     |           |
|  |                   |      | NNW                         |                   |          |       |                     |      | HHW                                       |      |      |      |                              |                                     |           |                        |                                     |           |
| seit 1930  |                   |      | 74 cm<br>13., 14. Dez 1948  |                   |          |       |                     |      | uugeh } 454 cm<br>überh } 9. Februar 1946 |      |      |      |                              |                                     |           |                        |                                     |           |
| <b>Eisverhältnisse 1954:</b> Raudeis au 41 Tageu.  |                   |      |                             |                   |          |       |                     |      |   |      |      |      |                              |                                     |           |                        |                                     |           |
| Die Eder ist bei Affoldern fast das ganze Jahr über stark verkrantet.  |                   |      |                             |                   |          |       |                     |      |   |      |      |      |                              |                                     |           |                        |                                     |           |
| Wasser- und Schifffahrtsdirektion Hannover   |                   |      |                             |                   |          |       |                     |      |   |      |      |      |                              |                                     |           |                        |                                     |           |



| Diemel  |                 |      |      |                   |      |       |                     |      |      |      |      | Pegel: Helminghausen |    |  |  |  |
|---|-----------------|------|------|-------------------|------|-------|---------------------|------|------|------|------|----------------------|----|--|--|--|
| 90 km oberhalb der Mündung                        |                 |      |      |                   |      |       |                     |      |      |      |      |                      |    |  |  |  |
| PN = NN + 336,97 m a. S. FN = 103 km <sup>2</sup> |                 |      |      |                   |      |       |                     |      |      |      |      |                      |    |  |  |  |
| 12-Uhr-Ablesungen [Q s. S. 71]                    |                 |      |      |                   |      |       |                     |      |      |      |      |                      |    |  |  |  |
| Tag   | Nov             | Dez  | Jan  | Febr              | März | April | Mai                 | Juni | Juli | Aug  | Sept | Okt                  |    |  |  |  |
| <b>Tageswerte (cm)</b>                            |                 |      |      |                   |      |       |                     |      |      |      |      |                      |    |  |  |  |
| 1.  | 54              | 43   | 42   | 55                | 54   | 53    | 53                  | 55   | 55   | 55   | 55   | 71                   | 73 |  |  |  |
| 2.  | 54              | 44   | 42   | 54                | 54   | 53    | 53                  | 55   | 55   | 55   | 54   | 70                   | 72 |  |  |  |
| 3.  | 54              | 43   | 42   | 54                | 53   | 53    | 54                  | 55   | 55   | 55   | 55   | 71                   | 72 |  |  |  |
| 4.  | 54              | 42   | 47   | 54                | 53   | 54    | 54                  | 55   | 55   | 55   | 55   | 80                   | 68 |  |  |  |
| 5.  | 53              | 42   | 48   | 54                | 53   | 52    | 53                  | 56   | 55   | 55   | 55   | 79                   | 71 |  |  |  |
| 6.  | 53              | 42   | 47   | 54                | 54   | 54    | 54                  | 55   | 56   | 71   | 78   | 91                   |    |  |  |  |
| 7.  | 53              | 42   | 47   | 54                | 54   | 54    | 53                  | 56   | 55   | 70   | 79   | 73                   |    |  |  |  |
| 8.  | 53              | 42   | 47   | 54                | 54   | 53    | 54                  | 56   | 55   | 70   | 79   | 74                   |    |  |  |  |
| 9.  | 54              | 42   | 47   | 54                | 54   | 53    | 54                  | 56   | 55   | 70   | 80   | 90                   |    |  |  |  |
| 10.   | 52              | 42   | 46   | 54                | 54   | 53    | 53                  | 57   | 55   | 70   | 80   | 89                   |    |  |  |  |
| 11.   | 46              | 42   | 47   | 54                | 54   | 54    | 53                  | 56   | 55   | 71   | 80   | 90                   |    |  |  |  |
| 12.   | 47              | 42   | 48   | 54                | 54   | 52    | 53                  | 57   | 55   | 71   | 80   | 90                   |    |  |  |  |
| 13.   | 47              | 42   | 48   | 54                | 54   | 54    | 53                  | 57   | 55   | 71   | 93   | 90                   |    |  |  |  |
| 14.   | 47              | 42   | 48   | 54                | 54   | 54    | 54                  | 55   | 54   | 71   | 90   | 90                   |    |  |  |  |
| 15.   | 46              | 42   | 47   | 54                | 54   | 53    | 53                  | 56   | 54   | 72   | 84   | 90                   |    |  |  |  |
| 16.   | 46              | 42   | 47   | 54                | 54   | 53    | 54                  | 56   | 54   | 70   | 87   | 88                   |    |  |  |  |
| 17.   | 45              | 42   | 46   | 53                | 54   | 53    | 51                  | 56   | 55   | 70   | 87   | 88                   |    |  |  |  |
| 18.   | 45              | 42   | 55   | 53                | 54   | 54    | 57                  | 56   | 55   | 70   | 86   | 87                   |    |  |  |  |
| 19.   | 45              | 42   | 54   | 53                | 54   | 54    | 55                  | 56   | 54   | 71   | 86   | 88                   |    |  |  |  |
| 20.   | 45              | 42   | 54   | 54                | 54   | 53    | 55                  | 56   | 54   | 56   | 85   | 88                   |    |  |  |  |
| 21.   | 45              | 42   | 55   | 54                | 54   | 53    | 54                  | 56   | 54   | 56   | 86   | 88                   |    |  |  |  |
| 22.   | 46              | 42   | 54   | 54                | 53   | 53    | 54                  | 56   | 55   | 56   | 86   | 88                   |    |  |  |  |
| 23.   | 45              | 42   | 54   | 54                | 54   | 53    | 55                  | 56   | 55   | 68   | 72   | 87                   |    |  |  |  |
| 24.   | 45              | 42   | 54   | 54                | 54   | 54    | 55                  | 56   | 55   | 71   | 70   | 86                   |    |  |  |  |
| 25.   | 46              | 42   | 54   | 54                | 54   | 53    | 54                  | 56   | 55   | 71   | 74   | 86                   |    |  |  |  |
| 26.   | 45              | 42   | 54   | 54                | 54   | 53    | 55                  | 56   | 55   | 71   | 73   | 86                   |    |  |  |  |
| 27.   | 44              | 42   | 54   | 53                | 54   | 53    | 55                  | 56   | 55   | 70   | 72   | 86                   |    |  |  |  |
| 28.   | 45              | 42   | 54   | 54                | 54   | 53    | 55                  | 55   | 55   | 70   | 73   | 85                   |    |  |  |  |
| 29.   | 45              | 42   | 54   | 52                | 54   | 56    | 56                  | 55   | 55   | 71   | 72   | 86                   |    |  |  |  |
| 30.   | 46              | 42   | 54   | 53                | 53   | 53    | 56                  | 55   | 55   | 69   | 73   | 85                   |    |  |  |  |
| 31.   |                 | 42   | 54   |                   | 53   |       | 55                  |      | 55   | 69   |      | 77                   |    |  |  |  |
| Σ   | 1445            | 1306 | 1544 | 1509              | 1666 | 1598  | 1677                | 1674 | 1700 | 2060 | 2376 | 2602                 |    |  |  |  |
|   | Wi: n 181; 9068 |      |      | So: n 184; 12 089 |      |       | Jahr: n 365; 21 157 |      |      |      |      |                      |    |  |  |  |

| Dauerzahlen der Wasserstände |                                 |           |             |                                 |           |
|------------------------------|---------------------------------|-----------|-------------|---------------------------------|-----------|
| Wasserstand                  | Unterschreitungs-dauer in Tagen |           | Wasserstand | Unterschreitungs-dauer in Tagen |           |
|                              | 1954                            | 1943/1950 |             | 1954                            | 1943/1950 |
| cm                           |                                 |           | cm          |                                 |           |
| 240                          | 365                             |           |             |                                 |           |
| 220                          | 363                             |           |             |                                 |           |
| 200                          | 359                             |           |             |                                 |           |
| 180                          | 323                             |           |             |                                 |           |
| 160                          | 233                             |           |             |                                 |           |
| 140                          | 176                             |           |             |                                 |           |
| 120                          | 56                              |           |             |                                 |           |
| 100                          |                                 |           |             |                                 |           |

| Pegel: Wolfershhausen |     |  |  |  |
|-----------------------|-----|--|--|--|
| 240                   | 365 |  |  |  |
| 220                   | 363 |  |  |  |
| 200                   | 359 |  |  |  |
| 180                   | 323 |  |  |  |
| 160                   | 233 |  |  |  |
| 140                   | 176 |  |  |  |
| 120                   | 56  |  |  |  |
| 100                   |     |  |  |  |

| Pegel: Treysa |     |       |  |  |
|---------------|-----|-------|--|--|
| 280           |     | 365,2 |  |  |
| 260           |     | 364,6 |  |  |
| 240           |     | 364,1 |  |  |
| 220           |     | 363,5 |  |  |
| 200           |     | 358,0 |  |  |
| 180           | 365 | 344,8 |  |  |
| 160           | 363 | 292,0 |  |  |
| 140           | 362 | 262,8 |  |  |
| 120           | 356 | 258,9 |  |  |
| 100           | 330 | 246,8 |  |  |
| 80            | 205 | 203,8 |  |  |
| 60            | 3   | 90,9  |  |  |

| Pegel: Helminghausen |     |  |  |  |
|----------------------|-----|--|--|--|
| 100                  | 365 |  |  |  |
| 80                   | 327 |  |  |  |
| 60                   | 281 |  |  |  |

| Hauptzahlen (cm) |     |     |     |      |      |     |     |      |      |     |      |     |    |    |      |
|------------------|-----|-----|-----|------|------|-----|-----|------|------|-----|------|-----|----|----|------|
|                  | Nov | Dez | Jan | Febr | März | Apr | Mai | Juni | Juli | Aug | Sept | Okt | Wi | So | Jahr |
| <b>1954</b>      |     |     |     |      |      |     |     |      |      |     |      |     |    |    |      |
| am               | 27. | oft | oft | oft  | 29.  | oft | 17. | 22.  | 23.  | 6.  | 25.  | 5.  |    |    |      |
| NW               | 44  | 42  | 42  | 53   | 52   | 52  | 51  | 43   | 51   | 52  | 35   | 44  | 42 | 35 | 35   |
| MW               | 48  | 42  | 50  | 54   | 54   | 53  | 54  | 56   | 55   | 66  | 79   | 84  | 50 | 66 | 58   |
| HW               | 55  | 45  | 56  | 56   | 56   | 56  | 68  | 60   | 57   | 74  | 94   | 93  | 56 | 94 | 94   |
| am               | 9.  | 1.  | 18. | 8.   | 25.  | 29. | 18. | 8.   | 20.  | 23. | 14.  | 6.  |    |    |      |
| <b>19—/19—*)</b> |     |     |     |      |      |     |     |      |      |     |      |     |    |    |      |
| NW               |     |     |     |      |      |     |     |      |      |     |      |     |    |    |      |
| MNW              |     |     |     |      |      |     |     |      |      |     |      |     |    |    |      |
| MW               |     |     |     |      |      |     |     |      |      |     |      |     |    |    |      |
| MHW              |     |     |     |      |      |     |     |      |      |     |      |     |    |    |      |
| HW               |     |     |     |      |      |     |     |      |      |     |      |     |    |    |      |
| HW <sub>1</sub>  |     |     |     |      |      |     |     |      |      |     |      |     |    |    |      |
| HW <sub>2</sub>  |     |     |     |      |      |     |     |      |      |     |      |     |    |    |      |

| Äußerste Wasserstände |                             |   |
|-----------------------|-----------------------------|---|
|                       | NW                          | HW                                      |
| 1954                  | 35 cm<br>25. September      | ungeh } 94 cm<br>überh } 14. September  |
| 19—/19—*)             |                             | ungeh<br>überh                          |
|                       | NNW                         | HHW                                     |
| seit 1951             | 35 cm<br>25. September 1954 | ungeh } 125 cm<br>überh } 14. März 1951 |

Eisverhältnisse 1954: Keine Angaben.  
 \*) Jahresreihe und Grenzwerte können nicht gebracht werden, da neuer Pegel.  
 Die Tageswerte sind 12-Uhr-Beobachtungen. Bei der Bildung der Hauptzahlen wurden die Schreibpegel-Spitzen verwendet.  
 Wasser- und Schifffahrtsdirektion Hannover





| Werre   |                       | Pegel: Herford  |      |                   |   |       |                     |         |      |      |      | Dauerzahlen der Wasserstände |             |                                 |           |             |                                 |           |  |
|---|-----------------------|---|------|-------------------|---|-------|---------------------|---------|------|------|------|------------------------------|-------------|---------------------------------|-----------|-------------|---------------------------------|-----------|--|
|   |                       | 23,3 km oberhalb der Mündung<br>PN = NN + 55,84 m a. S. FN = 875 km <sup>2</sup><br>Tagesmittel |      |                   |   |       |                     |         |      |      |      |                              |             |                                 |           |             |                                 |           |  |
| Tag   | Nov                   | Dez   | Jan  | Febr              | März                                      | April | Mai                 | Juni    | Juli | Aug  | Sept | Okt                          | Wasserstand | Unterschreitungs-dauer in Tagen |           | Wasserstand | Unterschreitungs-dauer in Tagen |           |  |
| Tageswerte (cm)   |                       |   |      |                   |   |       |                     |         |      |      |      |                              | cm          | 1954                            | 1943/1950 | cm          | 1954                            | 1943/1950 |  |
| 1.  | 185                   | 175   | 177  | 178               | 194                                       | 189   | 153                 | 163     | 168  | 211  | 205  | 272                          |             |                                 |           |             |                                 |           |  |
| 2.  | 185                   | 175   | 176  | 170               | 176                                       | 203   | 150                 | 170     | 173  | 200  | 195  | 284                          |             |                                 |           |             |                                 |           |  |
| 3.  | 185                   | 171   | 171  | 168               | 186                                       | 200   | 154                 | 167     | 172  | 194  | 196  | 256                          |             |                                 |           |             |                                 |           |  |
| 4.  | 182                   | 171   | 172  | 162               | 210                                       | 203   | 154                 | 164     | 166  | 193  | 192  | 231                          |             |                                 |           |             |                                 |           |  |
| 5.  | 182                   | 172   | 173  | 160               | 187                                       | 212   | 150                 | 163     | 177  | 190  | 196  | 227                          |             |                                 |           |             |                                 |           |  |
| 6.  | 179                   | 175   | 173  | 162               | 200                                       | 200   | 150                 | 159     | 173  | 190  | 228  | 256                          |             |                                 |           |             |                                 |           |  |
| 7.  | 178                   | 177   | 171  | 158               | 196                                       | 184   | 150                 | 160     | 178  | 201  | 206  | 384                          |             |                                 |           |             |                                 |           |  |
| 8.  | 174                   | 175   | 170  | 163               | 173                                       | 175   | 150                 | 166     | 174  | 190  | 202  | 309                          |             |                                 |           |             |                                 |           |  |
| 9.  | 180                   | 174   | 172  | 162               | 174                                       | 172   | 148                 | 169     | 170  | 187  | 200  | 276                          |             |                                 |           |             |                                 |           |  |
| 10.   | 180                   | 171   | 176  | 160               | 170                                       | 167   | 150                 | 170     | 169  | 183  | 195  | 254                          |             |                                 |           |             |                                 |           |  |
| 11.   | 177                   | 174   | 178  | 163               | 170                                       | 164   | 150                 | 165     | 178  | 184  | 195  | 246                          |             |                                 |           |             |                                 |           |  |
| 12.   | 177                   | 170   | 230  | 163               | 167                                       | 163   | 154                 | 166     | 222  | 174  | 194  | 236                          |             |                                 |           |             |                                 |           |  |
| 13.   | 176                   | 167   | 255  | 171               | 166                                       | 165   | 151                 | 170     | 245  | 182  | 196  | 228                          |             |                                 |           |             |                                 |           |  |
| 14.   | 188                   | 172   | 260  | 174               | 163                                       | 160   | 151                 | 170     | 221  | 194  | 188  | 222                          |             |                                 |           |             |                                 |           |  |
| 15.   | 186                   | 172   | 254  | 162               | 163                                       | 167   | 150                 | 174     | 211  | 257  | 188  | 216                          |             |                                 |           |             |                                 |           |  |
| 16.   | 185                   | 171   | 263  | 162               | 164                                       | 170   | 150                 | 169     | 207  | 312  | 190  | 213                          |             |                                 |           |             |                                 |           |  |
| 17.   | 184                   | 168   | 224  | 158               | 163                                       | 164   | 152                 | 159     | 206  | 308  | 199  | 210                          |             |                                 |           |             |                                 |           |  |
| 18.   | 178                   | 166   | 213  | 158               | 160                                       | 159   | 159                 | 167     | 290  | 252  | 194  | 205                          |             |                                 |           |             |                                 |           |  |
| 19.   | 179                   | 169   | 207  | 156               | 162                                       | 159   | 155                 | 168     | 328  | 231  | 191  | 228                          |             |                                 |           |             |                                 |           |  |
| 20.   | 182                   | 179   | 212  | 156               | 160                                       | 159   | 163                 | 162     | 257  | 216  | 191  | 241                          |             |                                 |           |             |                                 |           |  |
| 21.   | 178                   | 171   | 218  | 156               | 159                                       | 162   | 166                 | 168     | 225  | 228  | 194  | 218                          |             |                                 |           |             |                                 |           |  |
| 22.   | 175                   | 174   | 206  | 152               | 156                                       | 159   | 162                 | 168     | 210  | 266  | 198  | 218                          |             |                                 |           |             |                                 |           |  |
| 23.   | 177                   | 178   | 196  | 154               | 160                                       | 158   | 158                 | 166     | 204  | 312  | 193  | 237                          |             |                                 |           |             |                                 |           |  |
| 24.   | 177                   | 176   | 187  | 152               | 157                                       | 156   | 160                 | 164     | 203  | 305  | 187  | 227                          |             |                                 |           |             |                                 |           |  |
| 25.   | 177                   | 172   | 182  | 154               | 158                                       | 154   | 161                 | 164     | 204  | 258  | 193  | 243                          |             |                                 |           |             |                                 |           |  |
| 26.   | 174                   | 184   | 179  | 183               | 170                                       | 156   | 160                 | 172     | 291  | 244  | 204  | 228                          |             |                                 |           |             |                                 |           |  |
| 27.   | 176                   | 198   | 181  | 174               | 187                                       | 155   | 156                 | 178     | 308  | 225  | 222  | 238                          |             |                                 |           |             |                                 |           |  |
| 28.   | 174                   | 203   | 180  | 183               | 174                                       | 153   | 157                 | 168     | 253  | 220  | 212  | 266                          |             |                                 |           |             |                                 |           |  |
| 29.   | 171                   | 196   | 175  | 168               | 154                                       |       | 161                 | 172     | 256  | 220  | 230  | 236                          |             |                                 |           |             |                                 |           |  |
| 30.   | 173                   | 187   | 168  | 168               | 152                                       |       | 170                 | 168     | 246  | 206  | 228  | 248                          |             |                                 |           |             |                                 |           |  |
| 31.   |                       | 182   | 174  |                   | 174                                       |       | 166                 |         | 231  | 200  |      | 244                          |             |                                 |           |             |                                 |           |  |
| Σ   | 5374                  | 5465  | 6073 | 4574              | 5335                                      | 5094  | 4821                | 5009    | 6716 | 6933 | 6002 | 7597                         |             |                                 |           |             |                                 |           |  |
|   | Wi: n 181; 31 915     |   |      | So: n 184; 37 178 |   |       | Jahr: n 365; 69 093 |         |      |      |      |                              |             |                                 |           |             |                                 |           |  |
| Hauptzahlen (cm)  |                       |   |      |                   |   |       |                     |         |      |      |      |                              |             |                                 |           |             |                                 |           |  |
| Nov   Dez   Jan   Febr   März   Apr   Mai   Juni   Juli   Aug   Sept   Okt   Wi   So   Jahr                     |                       |   |      |                   |   |       |                     |         |      |      |      |                              |             |                                 |           |             |                                 |           |  |
| 1954  |                       |   |      |                   |   |       |                     |         |      |      |      |                              |             |                                 |           |             |                                 |           |  |
| am  | 29.                   | 18.   | 30.  | 22., 24.          | 22.                                       | 30.   | 9.                  | 6., 17. | 4.   | 12.  | 24.  | 18.                          |             |                                 |           |             |                                 |           |  |
| NW  | 171                   | 166   | 168  | 152               | 156                                       | 152   | 148                 | 159     | 166  | 174  | 187  | 205                          | 152         | 148                             | 148       |             |                                 |           |  |
| MW  | 179                   | 176   | 196  | 163               | 172                                       | 170   | 156                 | 167     | 217  | 224  | 200  | 248                          | 176         | 202                             | 189       |             |                                 |           |  |
| HW  | 205                   | 215   | 284  | 201               | 226                                       | 218   | 202                 | 189     | 367  | 350  | 248  | 412                          | 284         | 412                             | 412       |             |                                 |           |  |
| am  | 14.                   | 27.   | 13.  | 26.               | 4.  | 5.    | 18.                 | 10.     | 26.  | 16.  | 6.   | 7.                           |             |                                 |           |             |                                 |           |  |
| 19—/19—*)   |                       |   |      |                   |   |       |                     |         |      |      |      |                              |             |                                 |           |             |                                 |           |  |
| NW  |                       |   |      |                   |   |       |                     |         |      |      |      |                              |             |                                 |           |             |                                 |           |  |
| MNW   |                       |   |      |                   |   |       |                     |         |      |      |      |                              |             |                                 |           |             |                                 |           |  |
| MW  |                       |   |      |                   |   |       |                     |         |      |      |      |                              |             |                                 |           |             |                                 |           |  |
| MHW   |                       |   |      |                   |   |       |                     |         |      |      |      |                              |             |                                 |           |             |                                 |           |  |
| HW  |                       |   |      |                   |   |       |                     |         |      |      |      |                              |             |                                 |           |             |                                 |           |  |
| HW <sub>1</sub>   |                       |   |      |                   |   |       |                     |         |      |      |      |                              |             |                                 |           |             |                                 |           |  |
| HW <sub>2</sub>   |                       |   |      |                   |   |       |                     |         |      |      |      |                              |             |                                 |           |             |                                 |           |  |
| Außerste Wasserstände   |                       |   |      |                   |   |       |                     |         |      |      |      |                              |             |                                 |           |             |                                 |           |  |
| NW  |                       |   |      |                   |   |       |                     |         |      |      |      |                              |             |                                 |           |             |                                 |           |  |
| HW  |                       |   |      |                   |   |       |                     |         |      |      |      |                              |             |                                 |           |             |                                 |           |  |
| 1954  | 148 cm<br>9. Mai      |   |      |                   | ungeh } 412 cm<br>überh } 7. Oktober      |       |                     |         |      |      |      |                              |             |                                 |           |             |                                 |           |  |
| 19—/19—*)   |                       |   |      |                   | ungeh }<br>überh }                        |       |                     |         |      |      |      |                              |             |                                 |           |             |                                 |           |  |
| NNW   |                       |   |      |                   |   |       |                     |         |      |      |      |                              |             |                                 |           |             |                                 |           |  |
| HHW   |                       |   |      |                   |   |       |                     |         |      |      |      |                              |             |                                 |           |             |                                 |           |  |
| seit 1953   | 148 cm<br>9. Mai 1954 |   |      |                   | ungeh } 412 cm<br>überh } 7. Oktober 1954 |       |                     |         |      |      |      |                              |             |                                 |           |             |                                 |           |  |
| Eisverhältnisse 1954: Keine Angaben.  |                       |   |      |                   |   |       |                     |         |      |      |      |                              |             |                                 |           |             |                                 |           |  |
| *) Jahresreihe und Grenzwerte können noch nicht gebracht werden, da neuer Pegel.<br>Wasserwirtschaftsamt Minden |                       |   |      |                   |   |       |                     |         |      |      |      |                              |             |                                 |           |             |                                 |           |  |

| Steinhuder Meer   |     |     |      |      |             |     |                                 |      |     |             | Pegel: Wilhelmstein |     |     |  |     |      |      |             |      |      |             | Aller  |      |     |      |     |     |                           |      |       |     |      | Pegel: Brenneckenbrück |     |   |     |     |    |    |     |     |    |     |                   |     |    |    |     |     |     |     |     |     |     |                     |     |     |     |     |     |     |     |     |     |     |             |     |     |     |     |     |     |     |     |       |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                 |     |    |    |     |    |    |     |    |    |    |    |    |    |     |    |    |                 |    |    |     |    |    |    |    |    |    |    |    |    |    |    |     |     |     |    |    |    |    |    |    |    |    |    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| PN = NN + 37,63 m n. S. F <sub>N</sub> = 105 km <sup>2</sup><br>12-Uhr-Ablesungen |     |     |      |      |             |     |                                 |      |     |             |                     |     |     |  |     |      |      |             |      |      |             | 155,6 km oberhalb der Mündung<br>PN = NN + 47,34 m a. S. F <sub>N</sub> = 1639 km <sup>2</sup><br>Tagesmittel [Q s. S. 72] |      |     |      |     |     |                           |      |       |     |      |                        |     |   |     |     |    |    |     |     |    |     |                   |     |    |    |     |     |     |     |     |     |     |                     |     |     |     |     |     |     |     |     |     |     |             |     |     |     |     |     |     |     |     |       |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                 |     |    |    |     |    |    |     |    |    |    |    |    |    |     |    |    |                 |    |    |     |    |    |    |    |    |    |    |    |    |    |    |     |     |     |    |    |    |    |    |    |    |    |    |    |     |     |     |    |    |    |    |    |    |    |    |    |    |     |     |     |    |    |    |    |    |    |    |    |     |    |    |     |     |    |    |    |    |    |    |    |    |     |    |    |     |     | 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| Nov   | Dez | Jan | Febr | März | April       | Mai | Juni                            | Juli | Aug | Sept        | Okt                 | Tag | Nov | Dez  | Jan | Febr | März | April       | Mai  | Juni | Juli        | Aug  | Sept | Okt | Nov  | Dez | Jan | Febr                      | März | April | Mai | Juni | Juli                   | Aug | Sept  | Okt |     |    |    |     |     |    |     |                   |     |    |    |     |     |     |     |     |     |     |                     |     |     |     |     |     |     |     |     |     |     |             |     |     |     |     |     |     |     |     |       |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                 |     |    |    |     |    |    |     |    |    |    |    |    |    |     |    |    |                 |    |    |     |    |    |    |    |    |    |    |    |    |    |    |     |     |     |    |    |    |    |    |    |    |    |    |    | 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 |    |    |    |    |    |     |     |    |     |     |    |    |    |    |    |    |    |    |     |     |    |    |     |    |    |    |    |     |    |    |    |     |     |    |     |     |    |    |    |    |     |    |    |    |     |     |    |     |     |    |     |    |  |     |    |    |     |     |     |    |     |     |    |    |    |  |     |    |    |     |     |     |     |     |     |  |    |    |  |     |  |    |  |     |     |  |     |   |      |      |      |      |      |      |      |      |      |      |      |      |                 |  |  |  |  |  |  |  |  |  |  |                 |  |  |  |  |  |  |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |     |      |  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 |    |    |    |    |    |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |    |    |    |    |    |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                              |  |  |  |  |  |  |  |  |  |  |  |  |  |                              |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |    |  |  |  |  |  |  |    |  |  |  |  |  |  |    |  |  |  |  |  |  |      |  |  |  |  |  |  |                   |  |  |  |  |  |  |                                       |  |  |  |  |  |  |      |  |  |  |  |  |  |                           |  |  |  |  |  |  |                                       |  |  |  |  |  |  |           |  |  |  |  |  |  |                         |  |  |  |  |  |  |                                     |  |  |  |  |  |  |             |  |  |  |  |  |  |                        |  |  |  |  |  |  |   |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |           |  |  |  |  |  |  |                                 |  |  |  |  |  |  |   |  |  |  |  |  |  |             |  |  |  |  |  |  |                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>Tageswerte (cm)</b>  |     |     |      |      |             |     |                                 |      |     |             |                     |     |     |  |     |      |      |             |      |      |             |  |      |     |      |     |     |                           |      |       |     |      |                        |     |   |     |     |    |    |     |     |    |     |                   |     |    |    |     |     |     |     |     |     |     |                     |     |     |     |     |     |     |     |     |     |     |             |     |     |     |     |     |     |     |     |       |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                 |     |    |    |     |    |    |     |    |    |    |    |    |    |     |    |    |                 |    |    |     |    |    |    |    |    |    |    |    |    |    |    |     |     |     |    |    |    |    |    |    |    |    |    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| 10  | 10  | 13  | 17   | 18   | 17          | 15  | 9                               | 0    | 13  | 22          | 22                  | 1.  | 79  | 80   | 87  | 59   | 45   | 118         | 41   | 56   | 100         | 152  | 151  | 114 | 2.   | 77  | 77  | 82                        | 51   | 66    | 130 | 43   | 70                     | 100 | 137   | 126 | 146 | 3. | 87 | 79  | 78  | 49 | 66  | 132               | 46  | 77 | 97 | 113 | 111 | 164 | 4.  | 92  | 80  | 76  | 55                  | 67  | 139 | 68  | 67  | 96  | 107 | 106 | 176 | 5.  | 97  | 75          | 78  | 45  | 76  | 150 | 100 | 73  | 93  | 100 | 104   | 178 | 6.  | 97  | 64 | 83  | 38  | 79  | 145 | 84  | 69  | 98  | 95  | 100 | 183 | 7.  | 93  | 59  | 62  | 39  | 70              | 124 | 78 | 66 | 102 | 90 | 96 | 202 | 8. | 77 | 73 | 71 | 40 | 91 | 106 | 72 | 69 | 103             | 90 | 92 | 218 | 9. | 67 | 77 | 69 | 40 | 86 | 97 | 60 | 87 | 99 | 85 | 110 | 219 | 10. | 85 | 75 | 65 | 33 | 70 | 84 | 52 | 83 | 86 | 86 | 116 | 214 | 11. | 83 | 75 | 76 | 33 | 86 | 75 | 56 | 80 | 66 | 83 | 105 | 205 | 12. | 95 | 74 | 79 | 36 | 68 | 70 | 52 | 83 | 104 | 84 | 97 | 192 | 13. | 90 | 69 | 94 | 35 | 70 | 66 | 47 | 74 | 149 | 85 | 90 | 176 | 14. | 89 | 73 | 121 | 41 | 64 | 71 | 47 | 79 | 176 | 85 | 88 | 157 | 15. | 65 | 78 | 129 | 37 | 99 | 80 | 52 | 82 | 177 | 90 | 83 | 135 | 16. | 71 | 73 | 134 | 37 | 89 | 95 | 45 | 85 | 167 | 105 | 75 | 112 | 17. | 108 | 76 | 139 | 38 | 80 | 94 | 46 | 79 | 156 | 109 | 75 | 88 | 18. | 120 | 68 | 140 | 35 | 75 | 84 | 48 | 80 | 154 | 106 | 75 | 94 | 19. | 111 | 76 | 128 | 45 | 71 | 73 | 40 | 88 | 160 | 101 | 77 | 103 | 20. | 94 | 69 | 118 | 42 | 70 | 65 | 44 | 87 | 161 | 106 | 79 | 101 | 21. | 89 | 78 | 114 | 42 | 71 | 68 | 58 | 85 | 159 | 109 | 80 | 99 | 22. | 89 | 89 | 118 | 35 | 70 | 63 | 55 | 81 | 150 | 114 | 76 | 96 | 23. | 88 | 102 | 99 | 34 | 70 | 60 | 50 | 87 | 136 | 147 | 94 | 100 | 24. | 94 | 59 | 90 | 48 | 72 | 57 | 50 | 85 | 118 | 194 | 104 | 114 | 25. | 85 | 53 | 80 | 45 | 73 | 52 | 50 | 82 | 107 | 216 | 96 | 103 | 26. | 81 | 61 | 74 | 51 | 80 | 48 | 55 | 85 | 123 | 224 | 93 | 96 | 27. | 82 | 73 | 91 | 44 | 109 | 48 | 53 | 89 | 162 | 218 | 94 | 104 | 28. | 85 | 93 | 78 | 35 | 124 | 44 | 58 | 95 | 175 | 207 | 96 | 115 | 29. | 81 | 114 | 62 |  | 122 | 47 | 48 | 104 | 174 | 198 | 97 | 120 | 30. | 84 | 94 | 48 |  | 109 | 48 | 52 | 103 | 172 | 184 | 100 | 122 | 31. |  | 97 | 64 |  | 103 |  | 52 |  | 164 | 169 |  | 123 | Σ | 2635 | 2383 | 2827 | 1162 | 2491 | 2533 | 1702 | 2430 | 4084 | 3989 | 2886 | 4369 | Wi: n 181; 2622 |  |  |  |  |  |  |  |  |  |  | So: n 184; 2621 |  |  |  |  |  |  |  |  |  |  | Jahr: n 365; 5243 |  |  |  |  |  |  |  |  |  |  | Wi: n 181; 14 031 |  |  |  |  |  |  |  |  |  |  | So: n 184; 19 460 |  |  |  |  |  |  |  |  |  |  | Jahr: n 365; 33 491 |  |  |  |  |  |  |  |  |  |  | <b>Hauptzahlen (cm)</b> |  |  |  |  |  |  |  |  |  |  |  |  |  | <b>Hauptzahlen (cm)</b> |  |  |  |  |  |  |  |  |  |  |  |  |  | Nov | Dez | Jan | Febr | März | Apr | Mai | Juni | Juli | Aug | Sept | Okt | Wi | So | Jahr | Nov | Dez | Jan | Febr | März | Apr | Mai | Juni | Juli | Aug | Sept | Okt | Wi | So | Jahr | <b>1954</b> |  |  |  |  |  |  |  |  |  |  |  |  |  | <b>1954</b> |  |  |  |  |  |  |  |  |  |  |  |  |  | oft | oft | 3. | oft | 25. | 28.,<br>29. | 19. | oft | 11. | 11. | 17.,<br>22. | 1.,2. |  |  | am | 15. | 25. | 30. | 10.,<br>11. | 1. | 28. | 19. | 1. | 11. | 11. | oft | 17. |  |  | am | 8 | 10 | 12 | 17 | 15 | 14 | 6 | 0 | -2 | 9 | 18 | 22 | 8 | -2 | -2 | NW | 65 | 53 | 48 | 33 | 45 | 44 | 40 | 56 | 66 | 83 | 75 | 88 | 33 | 40 | 33 | MW | 88 | 77 | 91 | 42 | 80 | 84 | 55 | 81 | 132 | 129 | 96 | 141 | 78 | 106 | 92 | HW | 127 | 117 | 142 | 65 | 132 | 151 | 101 | 106 | 182 | 224 | 160 | 220 | 151 | 224 | 224 | am | 18. | 29. | 17.,<br>18. | 1. | 29. | 5. | 5. | 29. | 14. | 26. | 1. | 8.,9. |  |  |  | <b>1941/1950</b> |  |  |  |  |  |  |  |  |  |  |  |  |  | <b>1946/1950*)</b> |  |  |  |  |  |  |  |  |  |  |  |  |  | -1 | 3 | 14 | 15 | 20 | 17 | 13 | 9 | 1 | 1 | -6 | -5 | -1 | -6 | -6 | NW | 43 | 57 | 42 | 39 | 40 | 51 | 26 | 26 | 24 | 28 | 45 | 45 | 39 | 24 | 24 | MNW | 68 | 77 | 75 | 75 | 84 | 65 | 49 | 60 | 42 | 47 | 75 | 63 | 44 | 40 | 38 | MW | 95 | 124 | 133 | 146 | 155 | 110 | 73 | 94 | 67 | 72 | 89 | 85 | 127 | 80 | 103 | MHW | 125 | 181 | 199 | 192 | 229 | 184 | 122 | 136 | 102 | 103 | 106 | 106 | 253 | 158 | 253 | HW | 135 | 249 | 277 | 269 | 270 | 224 | 173 | 184 | 142 | 143 | 130 | 134 | 277 | 184 | 277 | HW <sub>1</sub> |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | HW <sub>2</sub> |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | <b>Äußerste Wasserstände</b> |  |  |  |  |  |  |  |  |  |  |  |  |  | <b>Äußerste Wasserstände</b> |  |  |  |  |  |  |  |  |  |  |  |  |  | NW |  |  |  |  |  |  | HW |  |  |  |  |  |  | NW |  |  |  |  |  |  | HW |  |  |  |  |  |  | 1954 |  |  |  |  |  |  | -2 cm<br>11. Juli |  |  |  |  |  |  | ungeh<br>überh } 36 cm<br>29. Oktober |  |  |  |  |  |  | 1954 |  |  |  |  |  |  | 33 cm<br>10., 11. Februar |  |  |  |  |  |  | ungeh<br>überh } 224 cm<br>26. August |  |  |  |  |  |  | 1941/1950 |  |  |  |  |  |  | -6 cm<br>September 1947 |  |  |  |  |  |  | ungeh<br>überh } 46 cm<br>März 1946 |  |  |  |  |  |  | 1946/1950*) |  |  |  |  |  |  | 24 cm<br>27. Jnli 1947 |  |  |  |  |  |  | ungeh<br>überh } 277 cm<br>15., 16. Jannar 1948 |  |  |  |  |  |  | NNW |  |  |  |  |  |  | HHW |  |  |  |  |  |  | NNW |  |  |  |  |  |  | HHW |  |  |  |  |  |  | seit 1873 |  |  |  |  |  |  | -22 cm<br>12. bis 20. März 1934 |  |  |  |  |  |  | ungeh<br>überh } 82 cm<br>12. März 1881 |  |  |  |  |  |  | seit 1864*) |  |  |  |  |  |  | 24 cm<br>27. Juli 1947 |  |  |  |  |  |  | ungeh<br>überh } 290 cm<br>12. März 1881 |  |  |  |  |  |  | <b>Eisverhältnisse 1954: Eisbewegung an 2 Tagen, Eisstand an 57 Tagen.</b> |  |  |  |  |  |  |  |  |  |  |  |  |  | <b>Eisverhältnisse 1954: Eisbewegung an 32 Tagen, Eisstand an 7 Tagen.</b> |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | *) Seit 20. November 1953 wird in Brenneckenbrück ein neuer Schreiblegel beobachtet. Die Werte der Jahresreihe und die als äußerste Werte angegebenen Zahlen sind durch Beziehungen auf den neuen Pegel umgerechnet worden.<br>Schrägdruck: 12-Uhr-Ablesungen. |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Wi: n 181; 2622   |     |     |      |      |             |     |                                 |      |     |             | So: n 184; 2621     |     |     |  |     |      |      |             |      |      |             | Jahr: n 365; 5243  |      |     |      |     |     |                           |      |       |     |      | Wi: n 181; 14 031      |     |   |     |     |    |    |     |     |    |     | So: n 184; 19 460 |     |    |    |     |     |     |     |     |     |     | Jahr: n 365; 33 491 |     |     |     |     |     |     |     |     |     |     |             |     |     |     |     |     |     |     |     |       |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                 |     |    |    |     |    |    |     |    |    |    |    |    |    |     |    |    |                 |    |    |     |    |    |    |    |    |    |    |    |    |    |    |     |     |     |    |    |    |    |    |    |   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    |    |    |    |    |    |    |    |    |     |     |    |     |     |    |    |    |    |    |    |    |    |     |     |    |    |     |    |    |    |    |     |    |    |    |     |     |    |     |     |    |    |    |    |     |    |    |    |     |     |    |     |     |    |     |    |  |     |    |    |     |     |     |    |     |     |    |    |    |  |     |    |    |     |     |     |     |     |     |  |    |    |  |     |  |    |  |     |     |  |     |   |      |      |      |      |      |      |      |      |      |      |      |      |                 |  |  |  |  |  |  |  |  |  |  |                 |  |  |  |  |  |  |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |     |   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 |  |  |  |    |   |    |    |    |    |    |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |    |    |    |    |    |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                              |  |  |  |  |  |  |  |  |  |  |  |  |  |                              |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |    |  |  |  |  |  |  |    |  |  |  |  |  |  |    |  |  |  |  |  |  |      |  |  |  |  |  |  |                   |  |  |  |  |  |  |                                       |  |  |  |  |  |  |      |  |  |  |  |  |  |                           |  |  |  |  |  |  |                                       |  |  |  |  |  |  |           |  |  |  |  |  |  |                         |  |  |  |  |  |  |                                     |  |  |  |  |  |  |             |  |  |  |  |  |  |                        |  |  |  |  |  |  |   |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |           |  |  |  |  |  |  |                                 |  |  |  |  |  |  |   |  |  |  |  |  |  |             |  |  |  |  |  |  |                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>Hauptzahlen (cm)</b>   |     |     |      |      |             |     |                                 |      |     |             |                     |     |     | <b>Hauptzahlen (cm)</b>  |     |      |      |             |      |      |             |  |      |     |      |     |     |                           |      |       |     |      |                        |     |   |     |     |    |    |     |     |    |     |                   |     |    |    |     |     |     |     |     |     |     |                     |     |     |     |     |     |     |     |     |     |     |             |     |     |     |     |     |     |     |     |       |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                 |     |    |    |     |    |    |     |    |    |    |    |    |    |     |    |    |                 |    |    |     |    |    |    |    |    |    |    |    |    |    |    |     |     |     |    |    |    |    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 |  |     |     |     |      |      |     |     |      |      |     |      |     |    |    |      |     |     |     |      |      |     |     |      |      |     |      |     |    |    |      |             |  |  |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |    |     |     |             |     |     |     |     |             |       |  |  |    |     |     |     |             |    |     |     |    |     |     |     |     |  |  |    |   |    |    |    |    |    |   |   |    |   |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |    |     |    |     |    |    |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |    |     |     |             |    |     |    |    |     |     |     |    |       |  |  |  |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  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| Nov   | Dez | Jan | Febr | März | Apr         | Mai | Juni                            | Juli | Aug | Sept        | Okt                 | Wi  | So  | Jahr   | Nov | Dez  | Jan  | Febr        | März | Apr  | Mai         | Juni   | Juli | Aug | Sept | Okt | Wi  | So                        | Jahr |       |     |      |                        |     |   |     |     |    |    |     |     |    |     |                   |     |    |    |     |     |     |     |     |     |     |                     |     |     |     |     |     |     |     |     |     |     |             |     |     |     |     |     |     |     |     |       |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                 |     |    |    |     |    |    |     |    |    |    |    |    |    |     |    |    |                 |    |    |     |    |    |    |    |    |    |    |    |    |    |    |     |     |     |    |    |    |    |    |    |    |    |    |    |     |     |     |    |    |    |    |    |    |    |    |    |    |     |     |     |    |    |    |    |    |    |    |    |     |    |    |     |     |    |    |    |    |    |    |    |    |     |    |    |     |     |    |    |     |    |    |    |    |    |     |    |    |     |     |    |    |     |    |    |    |    |    |     |    |    |     |     |    |    |     |    |    |    |    |    |     |     |    |     |     |     |    |     |    |    |    |    |    |     |     |    |    |     |     |    |     |    |    |    |    |    |     |     |    |    |     |     |    |     |    |    |    |    |    |     |     |    |     |     |    |    |     |    |    |    |    |    |     |     |    |     |     |    |    |     |    |    |    |    |    |     |     |    |    |     |    |    |     |    |    |    |    |    |     |     |    |    |     |    |     |    |    |    |    |    |    |     |     |    |     |     |    |    |    |    |    |    |    |    |     |     |     |     |     |    |    |    |    |    |    |    |    |     |     |    |     |     |    |    |    |    |    |    |    |    |     |     |    |    |     |    |    |    |    |     |    |    |    |     |     |    |     |     |    |    |    |    |     |    |    |    |     |     |    |     |     |    |     |    |  |     |    |    |     |     |     |    |     |     |    |    |    |  |     |    |    |     |     |     |     |     |     |  |    |    |  |     |  |    |  |     |     |  |     |   |      |      |      |      |      |      |      |      |      |      |      |      |                 |  |  |  |  |  |  |  |  |  |  |                 |  |  |  |  |  |  |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |     |      |  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 |    |    |    |    |    |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |    |    |    |    |    |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                              |  |  |  |  |  |  |  |  |  |  |  |  |  |                              |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |    |  |  |  |  |  |  |    |  |  |  |  |  |  |    |  |  |  |  |  |  |      |  |  |  |  |  |  |                   |  |  |  |  |  |  |                                       |  |  |  |  |  |  |      |  |  |  |  |  |  |                           |  |  |  |  |  |  |                                       |  |  |  |  |  |  |           |  |  |  |  |  |  |                         |  |  |  |  |  |  |                                     |  |  |  |  |  |  |             |  |  |  |  |  |  |                        |  |  |  |  |  |  |   |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |           |  |  |  |  |  |  |                                 |  |  |  |  |  |  |   |  |  |  |  |  |  |             |  |  |  |  |  |  |                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>1954</b>   |     |     |      |      |             |     |                                 |      |     |             |                     |     |     | <b>1954</b>  |     |      |      |             |      |      |             |  |      |     |      |     |     |                           |      |       |     |      |                        |     |   |     |     |    |    |     |     |    |     |                   |     |    |    |     |     |     |     |     |     |     |                     |     |     |     |     |     |     |     |     |     |     |             |     |     |     |     |     |     |     |     |       |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                 |     |    |    |     |    |    |     |    |    |    |    |    |    |     |    |    |                 |    |    |     |    |    |    |    |    |    |    |    |    |    |    |     |     |     |    |    |    |    |    |    |    |    |   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|    |    |    |    |    |    |    |     |     |    |     |     |    |    |    |    |    |    |    |    |     |     |    |    |     |    |    |    |    |     |    |    |    |     |     |    |     |     |    |    |    |    |     |    |    |    |     |     |    |     |     |    |     |    |  |     |    |    |     |     |     |    |     |     |    |    |    |  |     |    |    |     |     |     |     |     |     |  |    |    |  |     |  |    |  |     |     |  |     |   |      |      |      |      |      |      |      |      |      |      |      |      |                 |  |  |  |  |  |  |  |  |  |  |                 |  |  |  |  |  |  |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |     |      |      |     |     |      |      |     |      |     |    |    |      |     |     |     |      |      |     |     |      |      |     |      |     |    |    |      |             |  |  |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |    |     |     |             |     |     |     |     |             |       |  |  |    |     |     |     |             |    |     |     |    |     |     |     |     |  |  |    |   |    |    |    |    |    |   |   |    |   |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |    |     |    |     |    |    |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |    |     |     |             |    |     |    |    |     |     |     |    |       |  |  |  |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |    |   |    |    |    |    |    |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |    |    |    |    |    |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                              |  |  |  |  |  |  |  |  |  |  |  |  |  |                              |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |    |  |  |  |  |  |  |    |  |  |  |  |  |  |    |  |  |  |  |  |  |      |  |  |  |  |  |  |                   |  |  |  |  |  |  |                                       |  |  |  |  |  |  |      |  |  |  |  |  |  |                           |  |  |  |  |  |  |                                       |  |  |  |  |  |  |           |  |  |  |  |  |  |                         |  |  |  |  |  |  |                                     |  |  |  |  |  |  |             |  |  |  |  |  |  |                        |  |  |  |  |  |  |   |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |           |  |  |  |  |  |  |                                 |  |  |  |  |  |  |   |  |  |  |  |  |  |             |  |  |  |  |  |  |                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| oft   | oft | 3.  | oft  | 25.  | 28.,<br>29. | 19. | oft                             | 11.  | 11. | 17.,<br>22. | 1.,2.               |     |     | am   | 15. | 25.  | 30.  | 10.,<br>11. | 1.   | 28.  | 19.         | 1.   | 11.  | 11. | oft  | 17. |     |                           | am   |       |     |      |                        |     |   |     |     |    |    |     |     |    |     |                   |     |    |    |     |     |     |     |     |     |     |                     |     |     |     |     |     |     |     |     |     |     |             |     |     |     |     |     |     |     |     |       |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                 |     |    |    |     |    |    |     |    |    |    |    |    |    |     |    |    |                 |    |    |     |    |    |    |    |    |    |    |    |    |    |    |     |     |     |    |    |    |    |    |    |    |    |    |    |     |     |     |    |    |    |    |    |    |    |    |    |    |     |     |     |    |    |    |    |    |    |    |    |     |    |    |     |     |    |    |    |    |    |    |    |    |     |    |    |     |     |    |    |     |    |    |    |    |    |     |    |    |     |     |    |    |     |    |    |    |    |    |     |    |    |     |     |    |    |     |    |    |    |    |    |     |     |    |     |     |     |    |     |    |    |    |    |    |     |     |    |    |     |     |    |     |    |    |    |    |    |     |     |    |    |     |     |    |     |    |    |    |    |    |     |     |    |     |     |    |    |     |    |    |    |    |    |     |     |    |     |     |    |    |     |    |    |    |    |    |     |     |    |    |     |    |    |     |    |    |    |    |    |     |     |    |    |     |    |     |    |    |    |    |    |    |     |     |    |     |     |    |    |    |    |    |    |    |    |     |     |     |     |     |    |    |    |  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|     |     |      |      |     |      |     |    |    |      |     |     |     |      |      |     |     |      |      |     |      |     |    |    |      |             |  |  |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |    |     |     |             |     |     |     |     |             |       |  |  |    |     |     |     |             |    |     |     |    |     |     |     |     |  |  |    |   |    |    |    |    |    |   |   |    |   |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |    |     |    |     |    |    |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |    |     |     |             |    |     |    |    |     |     |     |    |       |  |  |  |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |    |   |  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 |  |  |                           |  |  |  |  |  |  |                                       |  |  |  |  |  |  |           |  |  |  |  |  |  |                         |  |  |  |  |  |  |                                     |  |  |  |  |  |  |             |  |  |  |  |  |  |                        |  |  |  |  |  |  |   |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |           |  |  |  |  |  |  |                                 |  |  |  |  |  |  |   |  |  |  |  |  |  |             |  |  |  |  |  |  |                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8   | 10  | 12  | 17   | 15   | 14          | 6   | 0                               | -2   | 9   | 18          | 22                  | 8   | -2  | -2   | NW  | 65   | 53   | 48          | 33   | 45   | 44          | 40   | 56   | 66  | 83   | 75  | 88  | 33                        | 40   | 33    | MW  | 88   | 77                     | 91  | 42  | 80  | 84  | 55 | 81 | 132 | 129 | 96 | 141 | 78                | 106 | 92 | HW | 127 | 117 | 142 | 65  | 132 | 151 | 101 | 106                 | 182 | 224 | 160 | 220 | 151 | 224 | 224 | am  | 18. | 29. | 17.,<br>18. | 1.  | 29. | 5.  | 5.  | 29. | 14. | 26. | 1.  | 8.,9. |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                 |     |    |    |     |    |    |     |    |    |    |    |    |    |     |    |    |                 |    |    |     |    |    |    |    |    |    |    |    |    |    |    |     |     |     |    |    |    |    |    |    |    |    |    |    |     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 |  |  |                           |  |  |  |  |  |  |                                       |  |  |  |  |  |  |           |  |  |  |  |  |  |                         |  |  |  |  |  |  |                                     |  |  |  |  |  |  |             |  |  |  |  |  |  |                        |  |  |  |  |  |  |   |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |           |  |  |  |  |  |  |                                 |  |  |  |  |  |  |   |  |  |  |  |  |  |             |  |  |  |  |  |  |                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>1941/1950</b>  |     |     |      |      |             |     |                                 |      |     |             |                     |     |     | <b>1946/1950*)</b>   |     |      |      |             |      |      |             |  |      |     |      |     |     |                           |      |       |     |      |                        |     |   |     |     |    |    |     |     |    |     |                   |     |    |    |     |     |     |     |     |     |     |                     |     |     |     |     |     |     |     |     |     |     |             |     |     |     |     |     |     |     |     |       |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                 |     |    |    |     |    |    |     |    |    |    |    |    |    |     |    |    |                 |    |    |     |    |    |    |    |    |    |    |    |    |    |    |     |     |     |    |    |    |    |    |    | 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    |     |      |      |     |     |      |      |     |      |     |    |    |      |     |     |     |      |      |     |     |      |      |     |      |     |    |    |      |             |  |  |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |    |     |     |             |     |     |     |     |             |       |  |  |    |     |     |     |             |    |     |     |    |     |     |     |     |  |  |    |   |    |    |    |    |    |   |   |    |   |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |    |     |    |     |    |    |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |    |     |     |             |    |     |    |    |     |     |     |    |       |  |  |  |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  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| -1  | 3   | 14  | 15   | 20   | 17          | 13  | 9                               | 1    | 1   | -6          | -5                  | -1  | -6  | -6   | NW  | 43   | 57   | 42          | 39   | 40   | 51          | 26   | 26   | 24  | 28   | 45  | 45  | 39                        | 24   | 24    | MNW | 68   | 77                     | 75  | 75  | 84  | 65  | 49 | 60 | 42  | 47  | 75 | 63  | 44                | 40  | 38 | MW | 95  | 124 | 133 | 146 | 155 | 110 | 73  | 94                  | 67  | 72  | 89  | 85  | 127 | 80  | 103 | MHW | 125 | 181 | 199         | 192 | 229 | 184 | 122 | 136 | 102 | 103 | 106 | 106   | 253 | 158 | 253 | HW | 135 | 249 | 277 | 269 | 270 | 224 | 173 | 184 | 142 | 143 | 130 | 134 | 277 | 184 | 277 | HW <sub>1</sub> |     |    |    |     |    |    |     |    |    |    |    |    |    |     |    |    | HW <sub>2</sub> |    |    |     |    |    |    |    |    |    |    |    |    |    |    |     |     |     |    |    |    |    |    |    |    |    |    |    |     |     |     |    |    |    |    |    |    |    |    |    |    |     |     |     |    |    |    |    |    |    |    |    |     |    |    |     |     |    |    |    |    |    |    |    |    |     |    |    |     |     |    |    |     |    |    |    |    |    |     |    |    |     |     |    |    |     |    |    |    |    |    |     |    |    |     |     |    |    |     |    |    |    |    |    |     |     |    |     |     |     |    |     |    |    |    |    |    |     |     |    |    |     |     |    |     |    |    |    |    |    |     |     |    |    |     |     |    |     |    |    |    |    |    |     |     |    |     |     |    |    |     |    |    |    |    |    |     |     |    |     |     |    |    |     |    |    |    |    |    |     |     |    |    |     |    |    |     |    |    |    |    |    |     |     |    |    |     |    |     |    |    |    |    |    |    |     |     |    |     |     |    |    |    |    |    |    |    |    |     |     |     |     |     |    |    |    |  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|     |     |      |      |     |      |     |    |    |      |     |     |     |      |      |     |     |      |      |     |      |     |    |    |      |             |  |  |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |    |     |     |             |     |     |     |     |             |       |  |  |    |     |     |     |             |    |     |     |    |     |     |     |     |  |  |    |   |    |    |    |    |    |   |   |    |   |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |    |     |    |     |    |    |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |    |     |     |             |    |     |    |    |     |     |     |    |       |  |  |  |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |    |   |  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| <b>Äußerste Wasserstände</b>  |     |     |      |      |             |     |                                 |      |     |             |                     |     |     | <b>Äußerste Wasserstände</b>   |     |      |      |             |      |      |             |  |      |     |      |     |     |                           |      |       |     |      |                        |     |   |     |     |    |    |     |     |    |     |                   |     |    |    |     |     |     |     |     |     |     |                     |     |     |     |     |     |     |     |     |     |     |             |     |     |     |     |     |     |     |     |       |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                 |     |    |    |     |    |    |     |    |    |    |    |    |    |     |    |    |                 |    |    |     |    |    |    |    |    |    |    |    |    |    |    |     |     |     |    |    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| NW  |     |     |      |      |             |     | HW                              |      |     |             |                     |     |     | NW   |     |      |      |             |      |      | HW          |  |      |     |      |     |     |                           |      |       |     |      |                        |     |   |     |     |    |    |     |     |    |     |                   |     |    |    |     |     |     |     |     |     |     |                     |     |     |     |     |     |     |     |     |     |     |             |     |     |     |     |     |     |     |     |       |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                 |     |    |    |     |    |    |     |    |    |    |    |    |    |     |    |    |                 |    |    |     |    |    |    |    |    |    |    |    |    |    |    |     |     |     |    |    |    |    |    |    |    |    |    |    |     |     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| 1954  |     |     |      |      |             |     | -2 cm<br>11. Juli               |      |     |             |                     |     |     | ungeh<br>überh } 36 cm<br>29. Oktober  |     |      |      |             |      |      | 1954        |  |      |     |      |     |     | 33 cm<br>10., 11. Februar |      |       |     |      |                        |     | ungeh<br>überh } 224 cm<br>26. August           |     |     |    |    |     |     |    |     |                   |     |    |    |     |     |     |     |     |     |     |                     |     |     |     |     |     |     |     |     |     |     |             |     |     |     |     |     |     |     |     |       |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                 |     |    |    |     |    |    |     |    |    |    |    |    |    |     |    |    |                 |    |    |     |    |    |    |    |    |    |    |    |    |    |    |     |     |     |    |    |    |    |    |    |    |    |    |    |     |     |     |    |    |    |    |    |    |    |    |    |    |     |     |     |    |    |    |    |    |    |    |    |     |    |    |     |     |    |    |    |    |    |    |    |    |     |    |    |     |     |    |    |     |    |    |    |    |    |     |    |    |     |     |    |    |     |    |    |    |    |    |    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   |    |    |  |     |    |    |     |     |     |     |     |     |  |    |    |  |     |  |    |  |     |     |  |     |   |      |      |      |      |      |      |      |      |      |      |      |      |                 |  |  |  |  |  |  |  |  |  |  |                 |  |  |  |  |  |  |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |     |      |      |     |     |      |      |     |      |     |    |    |      |     |     |     |      |      |     |     |      |      |     |      |     |    |    |      |             |  |  |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |    |     |     |             |     |     |     |     |             |       |  |  |    |     |     |     |             |    |     |     |    |     |     |     |     |  |  |    |   |    |    |    |    |    |   |   |    |   |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |    |     |    |     |    |    |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |    |     |     |             |    |     |    |    |     |     |     |    |       |  |  |  |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |    |   |    |    |    |    |    |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |    |    |    |    |    |    |     |    |     |     |     |     |     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 |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |           |  |  |  |  |  |  |                                 |  |  |  |  |  |  |   |  |  |  |  |  |  |             |  |  |  |  |  |  |                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1941/1950   |     |     |      |      |             |     | -6 cm<br>September 1947         |      |     |             |                     |     |     | ungeh<br>überh } 46 cm<br>März 1946  |     |      |      |             |      |      | 1946/1950*) |  |      |     |      |     |     | 24 cm<br>27. Jnli 1947    |      |       |     |      |                        |     | ungeh<br>überh } 277 cm<br>15., 16. Jannar 1948 |     |     |    |    |     |     |    |     |                   |     |    |    |     |     |     |     |     |     |     |                     |     |     |     |     |     |     |     |     |     |     |             |     |     |     |     |     |     |     |     |       |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                 |     |    |    |     |    |    |     |    |    |    |    |    |    |     |    |    |                 |    |    |     |    |    |    |    |    |    |    |    |    |    |    |     |     |     |    |    |    |    |    |    |    |    |    |    |     |     |     |    |    |    |    |    |    |    |    |    |    |     |     |     |    |    |    |    |    |    |    |    |     |    |    |     |     |    |    |    |    |    |    |    |    |     |    |    |     |     |    |    |     |    |    |    |    |    |     |    |    |     |     |    |    |     |    |    |    |    |    |     |   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   |    |  |     |    |    |     |     |     |     |     |     |  |    |    |  |     |  |    |  |     |     |  |     |   |      |      |      |      |      |      |      |      |      |      |      |      |                 |  |  |  |  |  |  |  |  |  |  |                 |  |  |  |  |  |  |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |     |      |      |     |     |      |      |     |      |     |    |    |      |     |     |     |      |      |     |     |      |      |     |      |     |    |    |      |             |  |  |  |  |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |    |     |     |             |     |     |     |     |      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| NNW   |     |     |      |      |             |     | HHW                             |      |     |             |                     |     |     | NNW  |     |      |      |             |      |      | HHW         |  |      |     |      |     |     |                           |      |       |     |      |                        |     |   |     |     |    |    |     |     |    |     |                   |     |    |    |     |     |     |     |     |     |     |                     |     |     |     |     |     |     |     |     |     |     |             |     |     |     |     |     |     |     |     |       |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                 |     |    |    |     |    |    |     |    |    |    |    |    |    |     |    |    |                 |    |    |     |    |    |    |    |    |    |    |    |    |    |    |     |     |     |    |    |    |    |    |    |    |    |    |    |     |   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| seit 1873   |     |     |      |      |             |     | -22 cm<br>12. bis 20. März 1934 |      |     |             |                     |     |     | ungeh<br>überh } 82 cm<br>12. März 1881  |     |      |      |             |      |      | seit 1864*) |  |      |     |      |     |     | 24 cm<br>27. Juli 1947    |      |       |     |      |                        |     | ungeh<br>überh } 290 cm<br>12. März 1881        |     |     |    |    |     |     |    |     |                   |     |    |    |     |     |     |     |     |     |     |                     |     |     |     |     |     |     |     |     |     |     |             |     |     |     |     |     |     |     |     |       |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                 |     |    |    |     |    |    |     |    |    |    |    |    |    |     |    |    |                 |    |    |     |    |    |    |    |    |    |    |    |    |    |    |     |     |     |    |    |    |    |    |    |    |    |    |    |     |     |     |    |    |    |    |    |    |    |    |    |    |     |     |     |    |    |    |    |    |    |    |    |     |    |    |     |     |    |    |    |    |    |    |    |    |     |    |    |     |     |    |    |     |    |    |    |    |    |     |    |    |     |     |    |    |     |    |    |    |    |    |    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| <b>Eisverhältnisse 1954: Eisbewegung an 2 Tagen, Eisstand an 57 Tagen.</b>        |     |     |      |      |             |     |                                 |      |     |             |                     |     |     | <b>Eisverhältnisse 1954: Eisbewegung an 32 Tagen, Eisstand an 7 Tagen.</b>   |     |      |      |             |      |      |             |  |      |     |      |     |     |                           |      |       |     |      |                        |     |   |     |     |    |    |     |     |    |     |                   |     |    |    |     |     |     |     |     |     |     |                     |     |     |     |     |     |     |     |     |     |     |             |     |     |     |     |     |     |     |     |       |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                 |     |    |    |     |    |    |     |    |    |    |    |    |    |     |    |    |                 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      |  |  |  |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |    |   |    |    |    |    |    |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |    |    |    |    |    |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                              |  |  |  |  |  |  |  |  |  |  |  |  |  |                              |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |    |  |  |  |  |  |  |    |  |  |  |  |  |  |    |  |  |  |  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|   |     |     |      |      |             |     |                                 |      |     |             |                     |     |     | *) Seit 20. November 1953 wird in Brenneckenbrück ein neuer Schreiblegel beobachtet. Die Werte der Jahresreihe und die als äußerste Werte angegebenen Zahlen sind durch Beziehungen auf den neuen Pegel umgerechnet worden.<br>Schrägdruck: 12-Uhr-Ablesungen. |     |      |      |             |      |      |             |  |      |     |      |     |     |                           |      |       |     |      |                        |     |   |     |     |    |    |     |     |    |     |                   |     |    |    |     |     |     |     |     |     |     |                     |     |     |     |     |     |     |     |     |     |     |             |     |     |     |     |     |     |     |     |       |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                 |     |    |    |     |    |    |     |    |    |    |    |    |    |     |    |    |                 |    |    |     |    |    |    |    |    |    |    |    |    |    |    |     |     |     |    |    |    |    |    |    |    |    |    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   |    |    |    |    |    |    |     |     |    |     |     |    |    |    |    |    |    |    |    |     |     |    |    |     |    |    |    |    |     |    |    |    |     |     |    |     |     |    |    |    |    |     |    |    |    |     |     |    |     |     |    |     |    |  |     |    |    |     |     |     |    |     |     |    |    |    |  |     |    |    |     |     |     |     |     |     |  |    |    |  |     |  |    |  |     |     |  |     |   |      |      |      |      |      |      |      |      |      |      |      |      |                 |  |  |  |  |  |  |  |  |  |  |                 |  |  |  |  |  |  |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |     |  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Aller

Pegel: Celle

113,85 km oberhalb der Mündung
PN = NN + 31,82 m n. S. FN = 4382 km²
12-Uhr-Ablesungen [Q s. S. 72]

Dauerzahlen der Wasserstände

Table with columns for Tag, Nov, Dez, Jan, Febr, März, April, Mai, Juni, Juli, Aug, Sept, Okt. Contains daily water level readings (Tageswerte) in cm for years 1954 and 1941/1950.

Table for Pegel: Wilhelmstein showing water level (Wasserstand) and undershoot duration (Unterschreitungs-dauer) in days for 1954 and 1941/1950.

Table for Pegel: Brenneckenbrücke (1946/50) showing water level (Wasserstand) and undershoot duration (Unterschreitungs-dauer) in days for 1954 and 1941/1950.

Table for Pegel: Celle showing water level (Wasserstand) and undershoot duration (Unterschreitungs-dauer) in days for 1954 and 1941/1950.

Hauptzahlen (cm)

Summary table for Hauptzahlen (cm) with columns for months and years.

1954

Table of main numbers for 1954, including am, NW, WM, HW, am readings.

1941/1950

Table of main numbers for 1941/1950, including NW, MNW, MW, MHW, HW, HW1, HW readings.

Äußerste Wasserstände

Table for Äußerste Wasserstände comparing NW and HW levels for 1954 and 1941/1950, including NNW and HHW.

Eisverhältnisse 1954: Eisbewegung an 4 Tagen, Randeis und Eisbewegung an 1 Tag, Randeis an 27 Tagen.

\*) Vor dem 1. November 1911 wegen Allerkanalisierung nicht vergleichbar.







| Leine   |  |      |                  |                   |      |             |   |      |      |      |      |       |                   | Pegel: Greene                       |      |                   |                                     |      |  | Dauerzahlen der Wasserstände |  |  |  |  |  |
|---|--|------|------------------|-------------------|------|-------------|---|------|------|------|------|-------|-------------------|-------------------------------------|------|-------------------|-------------------------------------|------|--|------------------------------|--|--|--|--|--|
| 177 km oberhalb der Mündung<br>PN = NN + 94,92 m a. S. FN = 2920 km <sup>2</sup><br>12-Uhr-Ablesungen |  |      |                  |                   |      |             |   |      |      |      |      |       |                   |                                     |      |                   |                                     |      |  |                              |  |  |  |  |  |
| Tag   | Nov                                      | Dez  | Jan              | Febr              | März | April       | Mai                                       | Juni | Juli | Aug  | Sept | Okt   | Wasserstand<br>em | Unterschreitungs-<br>dauer in Tagen |      | Wasserstand<br>em | Unterschreitungs-<br>dauer in Tagen |      |  |                              |  |  |  |  |  |
|   |  |      |                  |                   |      |             |   |      |      |      |      |       |                   | 1954                                |      | 1941/1950         |                                     | 1954 |  | 1941/1950                    |  |  |  |  |  |
| <b>Tageswerte (em)</b>  |  |      |                  |                   |      |             |   |      |      |      |      |       |                   |                                     |      |                   |                                     |      |  |                              |  |  |  |  |  |
| 1.  | 224                                      | 208  | 217              | 220 <sup>^</sup>  | 340  | 272         | 223                                       | 213  | 202  | 340  | 259  | 356   |                   |                                     |      |                   |                                     |      |  |                              |  |  |  |  |  |
| 2.  | 214                                      | 210  | 218              | 224 <sup>^</sup>  | 253  | 282         | 216                                       | 219  | 203  | 287  | 252  | 412   |                   |                                     |      |                   |                                     |      |  |                              |  |  |  |  |  |
| 3.  | 216                                      | 207  | 215              | 226 <sup>^</sup>  | 254  | 302         | 218                                       | 218  | 202  | 280  | 253  | 407   |                   |                                     |      |                   |                                     |      |  |                              |  |  |  |  |  |
| 4.  | 214                                      | 206  | 216              | 223 <sup>^</sup>  | 244  | 319         | 225                                       | 220  | 200  | 273  | 334  | 343   |                   |                                     |      |                   |                                     |      |  |                              |  |  |  |  |  |
| 5.  | 214                                      | 213  | 213              | 222 <sup>^</sup>  | 234  | 327         | 229                                       | 216  | 198  | 263  | 280  | 341   |                   |                                     |      |                   |                                     |      |  |                              |  |  |  |  |  |
| 6.  | 219                                      | 209  | 210 <sup>^</sup> | 223 <sup>^</sup>  | 230  | 310         | 218                                       | 214  | 199  | 256  | 261  | 420   |                   |                                     |      |                   |                                     |      |  |                              |  |  |  |  |  |
| 7.  | 214                                      | 210  | 203 <sup>^</sup> | 220 <sup>^</sup>  | 236  | 301         | 220                                       | 206  | 213  | 253  | 251  | 520   | 70                | 365                                 |      |                   |                                     |      |  |                              |  |  |  |  |  |
| 8.  | 211                                      | 207  | 208 <sup>^</sup> | 216 <sup>^</sup>  | 234  | 284         | 218                                       | 207  | 208  | 255  | 281  | 500   | 60                | 362                                 |      |                   |                                     |      |  |                              |  |  |  |  |  |
| 9.  | 210                                      | 209  | 205 <sup>o</sup> | 218 <sup>^</sup>  | 230  | 273         | 211                                       | 210  | 204  | 249  | 264  | 450   | 50                | 354                                 |      |                   |                                     |      |  |                              |  |  |  |  |  |
| 10.   | 209                                      | 207  | 207              | 221 <sup>^</sup>  | 229  | 264         | 209                                       | 207  | 202  | 242  | 274  | 408   | 40                | 280                                 |      |                   |                                     |      |  |                              |  |  |  |  |  |
|   |  |      |                  |                   |      |             |   |      |      |      |      |       | 30                | 12                                  |      |                   |                                     |      |  |                              |  |  |  |  |  |
| 11.   | 210                                      | 208  | 210              | 216 <sup>^</sup>  | 230  | 254         | 208                                       | 209  | 210  | 254  | 256  | 376   |                   |                                     |      |                   |                                     |      |  |                              |  |  |  |  |  |
| 12.   | 212                                      | 209  | 216              | 222 <sup>^</sup>  | 229  | 244         | 210                                       | 207  | 262  | 249  | 292  | 360   |                   |                                     |      |                   |                                     |      |  |                              |  |  |  |  |  |
| 13.   | 209                                      | 208  | 281              | 228 <sup>o</sup>  | 230  | 242         | 206                                       | 208  | 372  | 240  | 279  | 342   |                   |                                     |      |                   |                                     |      |  |                              |  |  |  |  |  |
| 14.   | 212                                      | 206  | 283              | 226               | 226  | 238         | 205                                       | 205  | 368  | 239  | 276  | 330   |                   |                                     |      |                   |                                     |      |  |                              |  |  |  |  |  |
| 15.   | 214                                      | 207  | 287              | 223               | 224  | 260         | 206                                       | 210  | 330  | 244  | 270  | 320   |                   |                                     |      |                   |                                     |      |  |                              |  |  |  |  |  |
| 16.   | 212                                      | 203  | 386              | 217               | 226  | 270         | 203                                       | 207  | 317  | 243  | 262  | 309   |                   |                                     |      |                   |                                     |      |  |                              |  |  |  |  |  |
| 17.   | 209                                      | 203  | 361              | 214               | 230  | 252         | 209                                       | 205  | 290  | 242  | 282  | 298   |                   |                                     |      |                   |                                     |      |  |                              |  |  |  |  |  |
| 18.   | 206                                      | 207  | 344              | 212               | 229  | 246         | 210                                       | 201  | 228  | 240  | 272  | 286   |                   |                                     |      |                   |                                     |      |  |                              |  |  |  |  |  |
| 19.   | 210                                      | 206  | 320              | 213               | 230  | 244         | 206                                       | 204  | 350  | 241  | 268  | 290   |                   |                                     |      |                   |                                     |      |  |                              |  |  |  |  |  |
| 20.   | 209                                      | 210  | 308              | 213               | 244  | 240         | 205                                       | 200  | 410  | 239  | 279  | 297   |                   |                                     |      |                   |                                     |      |  |                              |  |  |  |  |  |
| 21.   | 215                                      | 209  | 337              | 214               | 243  | 248         | 220                                       | 202  | 354  | 240  | 276  | 288   |                   |                                     |      |                   |                                     |      |  |                              |  |  |  |  |  |
| 22.   | 210                                      | 207  | 338              | 206               | 241  | 249         | 222                                       | 210  | 310  | 237  | 269  | 282   |                   |                                     |      |                   |                                     |      |  |                              |  |  |  |  |  |
| 23.   | 206                                      | 205  | 309              | 207               | 250  | 243         | 218                                       | 202  | 288  | 342  | 274  | 296   |                   |                                     |      |                   |                                     |      |  |                              |  |  |  |  |  |
| 24.   | 209                                      | 206  | 293              | 209               | 255  | 238         | 217                                       | 203  | 274  | 404  | 269  | 290   |                   |                                     |      |                   |                                     |      |  |                              |  |  |  |  |  |
| 25.   | 210                                      | 204  | 269              | 210               | 249  | 230         | 216                                       | 201  | 273  | 343  | 274  | 288   |                   |                                     |      |                   |                                     |      |  |                              |  |  |  |  |  |
| 26.   | 208                                      | 200  | 256              | 292               | 250  | 226         | 218                                       | 200  | 310  | 315  | 269  | 292   |                   |                                     |      |                   |                                     |      |  |                              |  |  |  |  |  |
| 27.   | 209                                      | 208  | 238 <sup>^</sup> | 284               | 290  | 225         | 213                                       | 201  | 412  | 301  | 270  | 284   |                   |                                     |      |                   |                                     |      |  |                              |  |  |  |  |  |
| 28.   | 210                                      | 225  | 261 <sup>^</sup> | 256               | 279  | 229         | 208                                       | 195  | 379  | 296  | 284  | 323   |                   |                                     |      |                   |                                     |      |  |                              |  |  |  |  |  |
| 29.   | 211                                      | 224  | 247 <sup>^</sup> |                   | 260  | 225         | 210                                       | 200  | 345  | 282  | 283  | 310   |                   |                                     |      |                   |                                     |      |  |                              |  |  |  |  |  |
| 30.   | 206                                      | 216  | 252 <sup>^</sup> |                   | 262  | 226         | 213                                       | 204  | 347  | 263  | 278  | 309   |                   |                                     |      |                   |                                     |      |  |                              |  |  |  |  |  |
| 31.   |  | 218  | 234 <sup>^</sup> |                   | 261  |             | 215                                       |      | 345  | 258  |      | 308   |                   |                                     |      |                   |                                     |      |  |                              |  |  |  |  |  |
| Σ   | 6342                                     | 6475 | 8142             | 6275              | 7622 | 7763        | 6625                                      | 6204 | 8805 | 8410 | 8191 | 10635 |                   |                                     |      |                   |                                     |      |  |                              |  |  |  |  |  |
|   | Wi: n 181; 42 619                        |      |                  | So: n 184; 48 870 |      |             | Jahr: n 365; 91 489                       |      |      |      |      |       |                   |                                     |      |                   |                                     |      |  |                              |  |  |  |  |  |
| <b>Hauptzahlen (cm)</b>   |  |      |                  |                   |      |             |   |      |      |      |      |       |                   |                                     |      |                   |                                     |      |  |                              |  |  |  |  |  |
|   | Nov                                      | Dez  | Jan              | Febr              | März | Apr         | Mai                                       | Juni | Juli | Aug  | Sept | Okt   | Wi                | So                                  | Jahr |                   |                                     |      |  |                              |  |  |  |  |  |
| 1954  |  |      |                  |                   |      |             |   |      |      |      |      |       |                   |                                     |      |                   |                                     |      |  |                              |  |  |  |  |  |
| am  | oft                                      | 26.  | 7.               | 22.               | 15.  | 27.,<br>29. | 16.                                       | 28.  | 5.   | 22.  | 7.   | 22.   |                   |                                     |      |                   |                                     |      |  |                              |  |  |  |  |  |
| NW  | 206                                      | 200  | 203              | 206               | 224  | 225         | 203                                       | 195  | 198  | 237  | 251  | 282   | 200               | 195                                 | 195  |                   |                                     |      |  |                              |  |  |  |  |  |
| MW  | 211                                      | 209  | 263              | 224               | 246  | 259         | 214                                       | 207  | 284  | 271  | 273  | 343   | 235               | 266                                 | 251  |                   |                                     |      |  |                              |  |  |  |  |  |
| HW  | 224                                      | 225  | 386              | 292               | 340  | 327         | 229                                       | 220  | 496  | 419  | 334  | 523   | 386               | 523                                 | 523  |                   |                                     |      |  |                              |  |  |  |  |  |
| am  | 1.                                       | 28.  | 16.              | 26.               | 1.   | 5.          | 5.  | 4.   | 28.  | 24.  | 4.   | 7.    |                   |                                     |      |                   |                                     |      |  |                              |  |  |  |  |  |
| 1941/1950   |  |      |                  |                   |      |             |   |      |      |      |      |       |                   |                                     |      |                   |                                     |      |  |                              |  |  |  |  |  |
| NW  | 198                                      | 212  | 214              | 212               | 216  | 246         | 220                                       | 210  | 206  | 180  | 180  | 194   | 198               | 180                                 | 180  |                   |                                     |      |  |                              |  |  |  |  |  |
| MNW   | 233                                      | 241  | 252              | 274               | 274  | 268         | 235                                       | 229  | 222  | 214  | 214  | 212   | 217               | 206                                 | 203  |                   |                                     |      |  |                              |  |  |  |  |  |
| MW  | 291                                      | 310  | 330              | 371               | 362  | 325         | 266                                       | 255  | 246  | 248  | 232  | 247   | 331               | 249                                 | 290  |                   |                                     |      |  |                              |  |  |  |  |  |
| MHW   | 397                                      | 429  | 452              | 482               | 499  | 425         | 335                                       | 309  | 313  | 326  | 272  | 301   | 616               | 405                                 | 616  |                   |                                     |      |  |                              |  |  |  |  |  |
| HW  | 658                                      | 626  | 650              | 741               | 725  | 490         | 486                                       | 426  | 496  | 506  | 484  | 546   | 741               | 546                                 | 741  |                   |                                     |      |  |                              |  |  |  |  |  |
| HW,<br>HW   |  |      |                  |                   |      |             |   |      |      |      |      |       |                   |                                     |      |                   |                                     |      |  |                              |  |  |  |  |  |
| <b>Äußerste Wasserstände</b>  |  |      |                  |                   |      |             |   |      |      |      |      |       |                   |                                     |      |                   |                                     |      |  |                              |  |  |  |  |  |
|   | NW                                       |      |                  |                   |      |             | HW  |      |      |      |      |       |                   |                                     |      |                   |                                     |      |  |                              |  |  |  |  |  |
|   | 1954<br>195 cm<br>28. Juni               |      |                  |                   |      |             | ungeh } 523 em<br>überh } 7. Oktober      |      |      |      |      |       |                   |                                     |      |                   |                                     |      |  |                              |  |  |  |  |  |
|   | 1941/1950<br>180 em<br>Aug, Sept 1947    |      |                  |                   |      |             | ungeh } 741 em<br>überh } 9. Februar 1946 |      |      |      |      |       |                   |                                     |      |                   |                                     |      |  |                              |  |  |  |  |  |
|   | NNW                                      |      |                  |                   |      |             | HHW                                       |      |      |      |      |       |                   |                                     |      |                   |                                     |      |  |                              |  |  |  |  |  |
|   | seit 1908<br>172 cm<br>6. September 1911 |      |                  |                   |      |             | ungeh } 741 cm<br>überh } 9. Februar 1946 |      |      |      |      |       |                   |                                     |      |                   |                                     |      |  |                              |  |  |  |  |  |
| <b>Eisverhältnisse 1954:</b> Randeis an 20 Tagen.   |  |      |                  |                   |      |             |   |      |      |      |      |       |                   |                                     |      |                   |                                     |      |  |                              |  |  |  |  |  |
| LFG Hannover  |  |      |                  |                   |      |             |   |      |      |      |      |       |                   |                                     |      |                   |                                     |      |  |                              |  |  |  |  |  |



| Leine <span style="margin-left: 100px;">Pegel: Poppenburg</span>   |      |                  |                  |                   |       |   |      |                     |      | Leine <span style="margin-left: 100px;">Pegel: Herrenhausen</span>   |      |                   |   |      |                  |                   |      |   |      |                     |      |      |      |      |      |     |     |     |      |     |
|--|------|------------------|------------------|-------------------|-------|---|------|---------------------|------|--|------|-------------------|---|------|------------------|-------------------|------|---|------|---------------------|------|------|------|------|------|-----|-----|-----|------|-----|
| 130 km oberhalb der Mündung<br>PN = NN + 68,46 m n. S. F <sub>N</sub> = 3467 km <sup>2</sup><br>Tagesmittel [Q s. S. 77] |      |                  |                  |                   |       |   |      |                     |      | 87,02 km oberhalb der Mündung<br>PN = NN + 43,84 m n. S. F <sub>N</sub> = 5329 km <sup>2</sup><br>Tagesmittel [Q s. S. 78] |      |                   |   |      |                  |                   |      |   |      |                     |      |      |      |      |      |     |     |     |      |     |
| Nov  | Dez  | Jan              | Febr             | März              | April | Mai   | Juni | Juli                | Aug  | Sept   | Okt  | Tag               | Nov   | Dez  | Jan              | Febr              | März | April                                   | Mai  | Juni                | Juli | Aug  | Sept | Okt  |      |     |     |     |      |     |
| <b>Tageswerte (cm)</b>   |      |                  |                  |                   |       |   |      |                     |      |  |      |                   | <b>Tageswerte (cm)</b>  |      |                  |                   |      |   |      |                     |      |      |      |      |      |     |     |     |      |     |
| 116  | 106  | 110              | 137 <sup>Ⓢ</sup> | 155               | 145   | 102   | 101  | 94                  | 190  | 150  | 195  | <b>1.</b>         | 91  | 69   | 86               | 91 <sup>°</sup>   | 160  | 147                                     | 98   | 76                  | 61   | 235  | 155  | 186  |      |     |     |     |      |     |
| 110  | 103  | 106              | 146 <sup>°</sup> | 156               | 154   | 101   | 103  | 93                  | 174  | 145  | 236  | <b>2.</b>         | 89  | 72   | 81               | 86                | 204  | 167                                     | 96   | 80                  | 66   | 202  | 149  | 272  |      |     |     |     |      |     |
| 109  | 104  | 105              | 148 <sup>Ⓢ</sup> | 147               | 158   | 102   | 105  | 93                  | 164  | 144  | 242  | <b>3.</b>         | 84  | 70   | 77               | 83                | 155  | 174                                     | 86   | 80                  | 56   | 177  | 137  | 300  |      |     |     |     |      |     |
| 109  | 104  | 105              | 145 <sup>°</sup> | 146               | 174   | 107   | 101  | 91                  | 159  | 184  | 211  | <b>4.</b>         | 80  | 70   | 76               | 85                | 166  | 193                                     | 90   | 79                  | 59   | 167  | 180  | 284  |      |     |     |     |      |     |
| 110  | 103  | 105              | 145              | 130               | 180   | 111   | 102  | 92                  | 153  | 170  | 205  | <b>5.</b>         | 79  | 71   | 76               | 88                | 136  | 208                                     | 98   | 78                  | 53   | 148  | 184  | 246  |      |     |     |     |      |     |
| 107  | 101  | 102              | 140 <sup>°</sup> | 126               | 174   | 108   | 100  | 93                  | 148  | 154  | 248  | <b>6.</b>         | 76  | 71   | 78               | 87                | 124  | 210                                     | 95   | 77                  | 56   | 137  | 170  | 286  |      |     |     |     |      |     |
| 109  | 104  | 94               | 135              | 130               | 165   | 107   | 95   | 97                  | 143  | 146  | 308  | <b>7.</b>         | 77  | 67   | 70               | 88                | 128  | 198                                     | 89   | 69                  | 58   | 136  | 157  | 388  |      |     |     |     |      |     |
| 106  | 102  | 97               | 130 <sup>Ⓢ</sup> | 118               | 156   | 104   | 97   | 100                 | 138  | 160  | 304  | <b>8.</b>         | 76  | 69   | 67               | 88                | 116  | 179                                     | 90   | 68                  | 60   | 128  | 157  | 410  |      |     |     |     |      |     |
| 108  | 100  | 98               | 123 <sup>Ⓢ</sup> | 114               | 148   | 105   | 96   | 93                  | 135  | 169  | 290  | <b>9.</b>         | 72  | 69   | 72               | 88                | 105  | 168                                     | 93   | 70                  | 59   | 127  | 207  | 398  |      |     |     |     |      |     |
| 106  | 103  | 100              | 120 <sup>Ⓢ</sup> | 114               | 143   | 100   | 98   | 94                  | 137  | 151  | 260  | <b>10.</b>        | 76  | 68   | 72               | 87                | 102  | 155                                     | 73   | 72                  | 57   | 124  | 165  | 360  |      |     |     |     |      |     |
| 106  | 103  | 101              | 111 <sup>°</sup> | 113               | 136   | 98  | 97   | 100                 | 135  | 146  | 235  | <b>11.</b>        | 77  | 70   | 80               | 89                | 99   | 145                                     | 76   | 67                  | 87   | 125  | 156  | 300  |      |     |     |     |      |     |
| 105  | 101  | 112              | 107 <sup>Ⓢ</sup> | 114               | 130   | 96  | 99   | 145                 | 133  | 157  | 216  | <b>12.</b>        | 81  | 70   | 81               | 90                | 99   | 130                                     | 76   | 70                  | 142  | 120  | 161  | 274  |      |     |     |     |      |     |
| 107  | 100  | 148              | 105 <sup>°</sup> | 114               | 128   | 97  | 97   | 198                 | 132  | 165  | 207  | <b>13.</b>        | 79  | 69   | 141              | 94                | 103  | 122                                     | 71   | 70                  | 236  | 118  | 180  | 254  |      |     |     |     |      |     |
| 103  | 101  | 162              | 108              | 113               | 126   | 96  | 98   | 223                 | 130  | 157  | 196  | <b>14.</b>        | 81  | 67   | 188 <sup>°</sup> | 98                | 105  | 120                                     | 73   | 63                  | 306  | 114  | 167  | 236  |      |     |     |     |      |     |
| 107  | 101  | 162              | 108              | 112               | 129   | 93  | 99   | 196                 | 137  | 153  | 189  | <b>15.</b>        | 80  | 70   | 186              | 99                | 101  | 121                                     | 70   | 65                  | 280  | 131  | 164  | 220  |      |     |     |     |      |     |
| 109  | 102  | 206              | 105 <sup>°</sup> | 111               | 145   | 92  | 99   | 187                 | 143  | 150  | 182  | <b>16.</b>        | 80  | 69   | 230              | 94                | 94   | 142                                     | 73   | 71                  | 248  | 152  | 152  | 208  |      |     |     |     |      |     |
| 111  | 101  | 220              | 103              | 113               | 140   | 94  | 95   | 172                 | 137  | 153  | 176  | <b>17.</b>        | 81  | 70   | 269              | 92                | 95   | 143                                     | 67   | 75                  | 222  | 140  | 151  | 194  |      |     |     |     |      |     |
| 110  | 99   | 196              | 101              | 112               | 132   | 91  | 99   | 200                 | 133  | 154  | 166  | <b>18.</b>        | 83  | 71   | 242              | 87                | 95   | 132                                     | 70   | 73                  | 222  | 136  | 159  | 184  |      |     |     |     |      |     |
| 109  | 99   | 189              | 101              | 112               | 128   | 94  | 93   | 236                 | 130  | 150  | 165  | <b>19.</b>        | 78  | 68   | 232              | 83                | 92   | 126                                     | 68   | 67                  | 310  | 130  | 154  | 174  |      |     |     |     |      |     |
| 108  | 101  | 180              | 100              | 119               | 127   | 98  | 96   | 238                 | 132  | 150  | 169  | <b>20.</b>        | 78  | 66   | 216              | 81                | 101  | 122                                     | 72   | 65                  | 310  | 125  | 150  | 202  |      |     |     |     |      |     |
| 107  | 100  | 183              | 98               | 122               | 129   | 105   | 89   | 224                 | 130  | 155  | 165  | <b>21.</b>        | 80  | 64   | 214              | 80                | 108  | 122                                     | 97   | 63                  | 303  | 118  | 154  | 184  |      |     |     |     |      |     |
| 107  | 100  | 193              | 96               | 124               | 130   | 107   | 90   | 190                 | 132  | 153  | 163  | <b>22.</b>        | 78  | 68   | 230              | 77                | 115  | 123                                     | 95   | 56                  | 246  | 117  | 156  | 172  |      |     |     |     |      |     |
| 105  | 100  | 183              | 94               | 126               | 127   | 104   | 94   | 169                 | 194  | 155  | 166  | <b>23.</b>        | 76  | 66   | 218              | 76                | 117  | 121                                     | 92   | 52                  | 206  | 196  | 150  | 170  |      |     |     |     |      |     |
| 105  | 98   | 172              | 95               | 131               | 123   | 101   | 93   | 159                 | 252  | 153  | 170  | <b>24.</b>        | 72  | 70   | 194              | 72                | 121  | 118                                     | 80   | 59                  | 186  | 349  | 154  | 184  |      |     |     |     |      |     |
| 106  | 103  | 162              | 95               | 130               | 120   | 100   | 92   | 157                 | 222  | 148  | 165  | <b>25.</b>        | 76  | 70   | 167              | 75                | 125  | 113                                     | 86   | 60                  | 172  | 326  | 143  | 172  |      |     |     |     |      |     |
| 105  | 100  | 147              | 113              | 133               | 115   | 100   | 93   | 185                 | 198  | 148  | 166  | <b>26.</b>        | 73  | 70   | 135              | 78                | 130  | 111                                     | 80   | 63                  | 194  | 263  | 144  | 174  |      |     |     |     |      |     |
| 105  | 98   | 137 <sup>Ⓢ</sup> | 157              | 148               | 113   | 99  | 89   | 246                 | 181  | 157  | 166  | <b>27.</b>        | 73  | 69   | 128              | 138               | 150  | 104                                     | 79   | 62                  | 304  | 233  | 150  | 176  |      |     |     |     |      |     |
| 106  | 111  | 131 <sup>Ⓢ</sup> | 136              | 152               | 114   | 99  | 93   | 241                 | 170  | 164  | 186  | <b>28.</b>        | 71  | 71   | 110              | 140               | 170  | 102                                     | 73   | 56                  | 322  | 203  | 171  | 196  |      |     |     |     |      |     |
| 104  | 118  | 132 <sup>Ⓢ</sup> |                  | 142               | 107   | 96  | 89   | 218                 | 167  | 164  | 184  | <b>29.</b>        | 76  | 90   | 110              |                   | 158  | 108                                     | 75   | 57                  | 290  | 190  | 175  | 208  |      |     |     |     |      |     |
| 109  | 117  | 136 <sup>Ⓢ</sup> |                  | 137               | 101   | 98  | 96   | 208                 | 160  | 161  | 178  | <b>30.</b>        | 65  | 100  | 104              |                   | 144  | 91                                      | 72   | 54                  | 258  | 185  | 169  | 198  |      |     |     |     |      |     |
|  | 114  | 135 <sup>Ⓢ</sup> |                  | 137               |       | 102   |      | 203                 | 152  |  | 178  | <b>31.</b>        |   | 96   | 100              |                   | 140  |   | 74   |                     | 250  | 158  |      | 198  |      |     |     |     |      |     |
| 3224   | 3197 | 4409             | 3302             | 3937              | 4097  | 3107  | 2888 | 5035                | 4841 | 4666   | 6287 | <b>Σ</b>          | 2338  | 2220 | 4330             | 2514              | 3858 | 4215                                    | 2527 | 2017                | 5679 | 5210 | 4821 | 7408 |      |     |     |     |      |     |
| Wi: n 181; 22 180  |      |                  |                  | So: n 184; 26 834 |       |   |      | Jahr: n 365; 49 014 |      |  |      | Wi: n 181; 19 475 |   |      |                  | So: n 184; 27 662 |      |   |      | Jahr: n 365; 47 137 |      |      |      |      |      |     |     |     |      |     |
| <b>Hauptzahlen (cm)</b>  |      |                  |                  |                   |       |   |      |                     |      |  |      |                   | <b>Hauptzahlen (cm)</b>   |      |                  |                   |      |   |      |                     |      |      |      |      |      |     |     |     |      |     |
| Nov  | Dez  | Jan              | Febr             | März              | Apr   | Mai   | Juni | Juli                | Aug  | Sept   | Okt  | Wi                | So  | Jahr | Nov              | Dez               | Jan  | Febr                                    | März | Apr                 | Mai  | Juni | Juli | Aug  | Sept | Okt | Wi  | So  | Jahr |     |
| 1954   |      |                  |                  |                   |       |   |      |                     |      |  |      |                   | 1954  |      |                  |                   |      |   |      |                     |      |      |      |      |      |     |     |     |      |     |
| 14.  | 24.  | 7.               | 23.              | 16.               | 30.   | 18.   | oft  | 4.                  | oft  | 3.   | 22.  |                   |   |      | 30.              | 21.               | 8.   | 24.                                     | 19.  | 30.                 | 17.  | 23.  | 5.   | 14.  | 3.   | 23. |     |     |      |     |
| 103  | 98   | 94               | 94               | 111               | 101   | 91  | 89   | 91                  | 130  | 144  | 163  | 94                | 89  | 89   | NW               | 65                | 64   | 67                                      | 72   | 92                  | 91   | 67   | 52   | 53   | 114  | 137 | 170 | 64  | 52   | 52  |
| 107  | 103  | 142              | 118              | 127               | 137   | 100   | 96   | 162                 | 156  | 156  | 203  | 123               | 146   | 134  | NW               | 78                | 72   | 140                                     | 90   | 124                 | 140  | 82   | 67   | 183  | 168  | 161 | 239 | 108 | 150  | 129 |
| 120  | 121  | 226              | 171              | 172               | 181   | 114   | 110  | 255                 | 260  | 193  | 310  | 226               | 310   | 310  | NW               | 96                | 102  | 272                                     | 162  | 210                 | 216  | 121  | 118  | 340  | 372  | 297 | 412 | 272 | 412  | 412 |
| 1.   | 30.  | 16.              | 27.              | 2.                | 5.    | 3.  | 18.  | 27.                 | 24.  | 4.   | 7.   |                   |   |      | am               | 1.                | 29.  | 17.                                     | 27.  | 2.                  | 5.   | 27.  | 6.   | 27.  | 24.  | 4.  | 8.  |     |      |     |
| 19—/19—*)  |      |                  |                  |                   |       |   |      |                     |      |  |      |                   | 1941/1950   |      |                  |                   |      |   |      |                     |      |      |      |      |      |     |     |     |      |     |
|  |      |                  |                  |                   |       |   |      |                     |      |  |      |                   | NW  | 43   | 63               | 64                | 84   | 88                                      | 94   | 81                  | 73   | 51   | 35   | 32   | 37   | 43  | 32  | 32  |      |     |
|  |      |                  |                  |                   |       |   |      |                     |      |  |      |                   | MNW   | 97   | 112              | 122               | 147  | 157                                     | 138  | 102                 | 95   | 77   | 72   | 71   | 67   | 78  | 61  | 57  |      |     |
|  |      |                  |                  |                   |       |   |      |                     |      |  |      |                   | MW  | 165  | 198              | 216               | 268  | 259                                     | 215  | 142                 | 131  | 116  | 113  | 96   | 111  | 220 | 118 | 160 |      |     |
|  |      |                  |                  |                   |       |   |      |                     |      |  |      |                   | MHW   | 294  | 312              | 332               | 372  | 396                                     | 328  | 223                 | 211  | 184  | 183  | 145  | 183  | 491 | 286 | 491 |      |     |
|  |      |                  |                  |                   |       |   |      |                     |      |  |      |                   | HW  | 508  | 516              | 541               | 644  | 578                                     | 416  | 387                 | 323  | 308  | 365  | 355  | 434  | 644 | 434 | 644 |      |     |
|  |      |                  |                  |                   |       |   |      |                     |      |  |      |                   | HW  |      |                  |                   |      |   |      |                     |      |      |      |      |      |     |     |     |      |     |
| <b>Äußerste Wasserstände</b>   |      |                  |                  |                   |       |   |      |                     |      |  |      |                   | <b>Äußerste Wasserstände</b>  |      |                  |                   |      |   |      |                     |      |      |      |      |      |     |     |     |      |     |
| NW   |      |                  |                  |                   |       | HW  |      |                     |      |  |      | NW                |   |      |                  |                   |      | HW                                      |      |                     |      |      |      |      |      |     |     |     |      |     |
| 1954   |      |                  |                  |                   |       | 89 cm Juni oft                                      |      |                     |      |  |      | 1954              |   |      |                  |                   |      | 52 cm 23. Juni                          |      |                     |      |      |      |      |      |     |     |     |      |     |
| 19—/19—*)  |      |                  |                  |                   |       | ungeh } überh } 310 cm 7. Oktober                   |      |                     |      |  |      | 1941/1950         |   |      |                  |                   |      | ungeh } überh } 412 cm 8. Oktober       |      |                     |      |      |      |      |      |     |     |     |      |     |
|  |      |                  |                  |                   |       | ungeh } überh }                                     |      |                     |      |  |      |                   |   |      |                  |                   |      | ungeh } überh } 644 cm 10. Februar 1946 |      |                     |      |      |      |      |      |     |     |     |      |     |
| NNW  |      |                  |                  |                   |       | HHW   |      |                     |      |  |      | NNW               |   |      |                  |                   |      | HHW                                     |      |                     |      |      |      |      |      |     |     |     |      |     |
| seit 1952  |      |                  |                  |                   |       | 89 cm Juni oft                                      |      |                     |      |  |      | seit 1903         |   |      |                  |                   |      | 15. cm 17. Juni 1929                    |      |                     |      |      |      |      |      |     |     |     |      |     |
|  |      |                  |                  |                   |       | ungeh } überh } 310 cm 7. Okt 1954 2., 3. Febr 1953 |      |                     |      |  |      |                   |   |      |                  |                   |      | ungeh } überh } 644 cm 10. Februar 1946 |      |                     |      |      |      |      |      |     |     |     |      |     |
| Eisverhältnisse 1954: Eisbewegung an 1 Tag, Eisstand an 1 Tag, Randeis und Eisbewegung an 11 Tagen.                      |      |                  |                  |                   |       |   |      |                     |      |  |      |                   | Eisverhältnisse 1954: Eisbewegung an 2 Tagen, Eisstand an 11 Tagen. |      |                  |                   |      |   |      |                     |      |      |      |      |      |     |     |     |      |     |
| *) Jahresreihe und Grenzwerte können noch nicht gebracht werden, da seit 1. November 1951 neuer Pegel.                   |      |                  |                  |                   |       |   |      |                     |      |  |      |                   |   |      |                  |                   |      |   |      |                     |      |      |      |      |      |     |     |     |      |     |

| Leine   |                   |      |                  |                   |                  |       |                                  |             |      |      |      |      | Pegel: Basse                               |                                     |           |             |                                     |           |  |  |  |  |  |  |  | Dauerzahlen der Wasserstände |  |  |  |  |  |
|---|-------------------|------|------------------|-------------------|------------------|-------|----------------------------------|-------------|------|------|------|------|--|-------------------------------------|-----------|-------------|-------------------------------------|-----------|--|--|--|--|--|--|--|------------------------------|--|--|--|--|--|
| 35,9 km oberhalb der Mündung<br>PN = NN + 28,50 m n. S. FN = 6137 km²<br>12-Uhr-Ablesungen [Q s. S. 78] |                   |      |                  |                   |                  |       |                                  |             |      |      |      |      |  |                                     |           |             |                                     |           |  |  |  |  |  |  |  |                              |  |  |  |  |  |
| Tag   | Nov               | Dez  | Jan              | Febr              | März             | April | Mai                              | Juni        | Juli | Aug  | Sept | Okt  | Wasserstand                                | Unterschreitungs-<br>dauer in Tagen |           | Wasserstand | Unterschreitungs-<br>dauer in Tagen |           |  |  |  |  |  |  |  |                              |  |  |  |  |  |
|   |                   |      |                  |                   |                  |       |                                  |             |      |      |      |      | cm   | 1954                                | 1941/1950 | cm          | 1954                                | 1941/1950 |  |  |  |  |  |  |  |                              |  |  |  |  |  |
| <b>Tageswerte (cm)</b>  |                   |      |                  |                   |                  |       |                                  |             |      |      |      |      |  |                                     |           |             |                                     |           |  |  |  |  |  |  |  |                              |  |  |  |  |  |
| 1.  | 111               | 98   | 113              | 154 <sup>^</sup>  | 156 <sup>^</sup> | 162   | 125                              | 103         | 82   | 260  | 191  | 199  |  |                                     |           |             |                                     |           |  |  |  |  |  |  |  |                              |  |  |  |  |  |
| 2.  | 100               | 93   | 108              | 186 <sup>^</sup>  | 187 <sup>°</sup> | 175   | 118                              | 104         | 92   | 236  | 182  | 254  |  |                                     |           |             |                                     |           |  |  |  |  |  |  |  |                              |  |  |  |  |  |
| 3.  | 104               | 98   | 104              | 170 <sup>^</sup>  | 178              | 191   | 116                              | 108         | 86   | 211  | 174  | 290  |  |                                     |           |             |                                     |           |  |  |  |  |  |  |  |                              |  |  |  |  |  |
| 4.  | 100               | 97   | 100              | 176 <sup>^</sup>  | 180              | 200   | 114                              | 107         | 82   | 194  | 162  | 292  |  |                                     |           |             |                                     |           |  |  |  |  |  |  |  |                              |  |  |  |  |  |
| 5.  | 102               | 97   | 104              | 186 <sup>^</sup>  | 173              | 221   | 116                              | 106         | 83   | 180  | 222  | 266  |  |                                     |           |             |                                     |           |  |  |  |  |  |  |  |                              |  |  |  |  |  |
| 6.  | 104               | 99   | 105              | 192 <sup>^</sup>  | 150              | 221   | 124                              | 103         | 84   | 176  | 203  | 270  |  |                                     |           |             |                                     |           |  |  |  |  |  |  |  |                              |  |  |  |  |  |
| 7.  | 101               | 93   | 101 <sup>^</sup> | 175 <sup>^</sup>  | 142              | 211   | 118                              | 96          | 85   | 178  | 186  | 364  |  |                                     |           |             |                                     |           |  |  |  |  |  |  |  |                              |  |  |  |  |  |
| 8.  | 114               | 97   | 91 <sup>^</sup>  | 180 <sup>^</sup>  | 138              | 202   | 114                              | 91          | 81   | 164  | 174  | 395  |  |                                     |           |             |                                     |           |  |  |  |  |  |  |  |                              |  |  |  |  |  |
| 9.  | 94                | 98   | 92 <sup>°</sup>  | 162 <sup>^</sup>  | 136              | 187   | 112                              | 99          | 82   | 155  | 201  | 403  |  |                                     |           |             |                                     |           |  |  |  |  |  |  |  |                              |  |  |  |  |  |
| 10.   | 104               | 97   | 92               | 148 <sup>^</sup>  | 125              | 177   | 105                              | 98          | 88   | 154  | 205  | 392  |  |                                     |           |             |                                     |           |  |  |  |  |  |  |  |                              |  |  |  |  |  |
| 11.   | 100               | 97   | 94               | 131 <sup>^</sup>  | 121              | 166   | 108                              | 94          | 88   | 152  | 180  | 352  |  |                                     |           |             |                                     |           |  |  |  |  |  |  |  |                              |  |  |  |  |  |
| 12.   | 103               | 96   | 108              | 112 <sup>^</sup>  | 121              | 152   | 100                              | 95          | 150  | 146  | 174  | 302  |  |                                     |           |             |                                     |           |  |  |  |  |  |  |  |                              |  |  |  |  |  |
| 13.   | 100               | 100  | 139              | 110 <sup>^</sup>  | 125              | 155   | 106                              | 95          | 200  | 146  | 196  | 282  |  |                                     |           |             |                                     |           |  |  |  |  |  |  |  |                              |  |  |  |  |  |
| 14.   | 108               | 80   | 182              | 114 <sup>^</sup>  | 128              | 146   | 108                              | 96          | 272  | 143  | 196  | 262  |  |                                     |           |             |                                     |           |  |  |  |  |  |  |  |                              |  |  |  |  |  |
| 15.   | 103               | 94   | 206              | 115 <sup>^</sup>  | 121              | 150   | 109                              | 98          | 286  | 141  | 186  | 246  |  |                                     |           |             |                                     |           |  |  |  |  |  |  |  |                              |  |  |  |  |  |
| 16.   | 105               | 98   | 208              | 118 <sup>^</sup>  | 118              | 155   | 108                              | 96          | 256  | 202  | 180  | 234  |  |                                     |           |             |                                     |           |  |  |  |  |  |  |  |                              |  |  |  |  |  |
| 17.   | 102               | 90   | 274              | 112 <sup>^</sup>  | 120              | 166   | 107                              | 102         | 234  | 202  | 175  | 222  |  |                                     |           |             |                                     |           |  |  |  |  |  |  |  |                              |  |  |  |  |  |
| 18.   | 112               | 92   | 266              | 108 <sup>^</sup>  | 121              | 157   | 95                               | 98          | 219  | 201  | 176  | 215  |  |                                     |           |             |                                     |           |  |  |  |  |  |  |  |                              |  |  |  |  |  |
| 19.   | 107               | 91   | 236              | 107 <sup>^</sup>  | 118              | 146   | 95                               | 96          | 268  | 182  | 175  | 196  |  |                                     |           |             |                                     |           |  |  |  |  |  |  |  |                              |  |  |  |  |  |
| 20.   | 104               | 100  | 228              | 106 <sup>^</sup>  | 123              | 142   | 98                               | 94          | 312  | 173  | 168  | 214  |  |                                     |           |             |                                     |           |  |  |  |  |  |  |  |                              |  |  |  |  |  |
| 21.   | 116               | 86   | 226              | 108 <sup>^</sup>  | 132              | 148   | 125                              | 98          | 311  | 162  | 171  | 212  |  |                                     |           |             |                                     |           |  |  |  |  |  |  |  |                              |  |  |  |  |  |
| 22.   | 100               | 94   | 224              | 98 <sup>^</sup>   | 132              | 146   | 125                              | 90          | 275  | 156  | 181  | 204  |  |                                     |           |             |                                     |           |  |  |  |  |  |  |  |                              |  |  |  |  |  |
| 23.   | 100               | 94   | 231              | 99 <sup>^</sup>   | 135              | 148   | 119                              | 81          | 238  | 170  | 175  | 198  |  |                                     |           |             |                                     |           |  |  |  |  |  |  |  |                              |  |  |  |  |  |
| 24.   | 99                | 93   | 212              | 100 <sup>^</sup>  | 137              | 138   | 108                              | 82          | 210  | 332  | 174  | 199  |  |                                     |           |             |                                     |           |  |  |  |  |  |  |  |                              |  |  |  |  |  |
| 25.   | 101               | 95   | 186              | 96 <sup>^</sup>   | 144              | 140   | 110                              | 90          | 198  | 368  | 174  | 204  |  |                                     |           |             |                                     |           |  |  |  |  |  |  |  |                              |  |  |  |  |  |
| 26.   | 102               | 92   | 171 <sup>^</sup> | 99 <sup>^</sup>   | 146              | 125   | 110                              | 84          | 215  | 334  | 165  | 200  |  |                                     |           |             |                                     |           |  |  |  |  |  |  |  |                              |  |  |  |  |  |
| 27.   | 100               | 93   | 158 <sup>^</sup> | 117 <sup>^</sup>  | 162              | 130   | 106                              | 93          | 258  | 282  | 165  | 194  |  |                                     |           |             |                                     |           |  |  |  |  |  |  |  |                              |  |  |  |  |  |
| 28.   | 101               | 90   | 168 <sup>^</sup> | 175 <sup>^</sup>  | 186              | 126   | 98                               | 85          | 318  | 246  | 184  | 220  |  |                                     |           |             |                                     |           |  |  |  |  |  |  |  |                              |  |  |  |  |  |
| 29.   | 102               | 104  | 160 <sup>^</sup> |                   | 176              | 126   | 104                              | 84          | 307  | 230  | 196  | 238  |  |                                     |           |             |                                     |           |  |  |  |  |  |  |  |                              |  |  |  |  |  |
| 30.   | 90                | 121  | 162 <sup>^</sup> |                   | 165              | 133   | 96                               | 81          | 293  | 221  | 195  | 228  |  |                                     |           |             |                                     |           |  |  |  |  |  |  |  |                              |  |  |  |  |  |
| 31.   |                   | 118  | 164 <sup>^</sup> |                   | 158              |       | 95                               |             | 272  | 205  |      | 230  |  |                                     |           |             |                                     |           |  |  |  |  |  |  |  |                              |  |  |  |  |  |
| Σ   | 3089              | 2985 | 5013             | 3754              | 4454             | 4842  | 3392                             | 2847        | 6025 | 6302 | 5486 | 7977 |  |                                     |           |             |                                     |           |  |  |  |  |  |  |  |                              |  |  |  |  |  |
|   | Wi: n 181; 24 137 |      |                  | So: n 184; 32 029 |                  |       | Jahr: n 365; 56 166              |             |      |      |      |      |  |                                     |           |             |                                     |           |  |  |  |  |  |  |  |                              |  |  |  |  |  |
| <b>Hauptzahlen (cm)</b>   |                   |      |                  |                   |                  |       |                                  |             |      |      |      |      |  |                                     |           |             |                                     |           |  |  |  |  |  |  |  |                              |  |  |  |  |  |
|   | Nov               | Dez  | Jan              | Febr              | März             | Apr   | Mai                              | Juni        | Juli | Aug  | Sept | Okt  | Wi   | So                                  | Jahr      |             |                                     |           |  |  |  |  |  |  |  |                              |  |  |  |  |  |
|   | <b>1954</b>       |      |                  |                   |                  |       |                                  |             |      |      |      |      |  |                                     |           |             |                                     |           |  |  |  |  |  |  |  |                              |  |  |  |  |  |
| am  | 30.               | 14.  | 8.               | 25.               | 16.,<br>19.      | 26.   | oft                              | 23.,<br>30. | 8.   | 15.  | 4.   | 27.  |  |                                     |           |             |                                     |           |  |  |  |  |  |  |  |                              |  |  |  |  |  |
| NW  | 90                | 80   | 91               | 96                | 118              | 125   | 95                               | 81          | 81   | 141  | 162  | 194  | 80   | 81                                  | 80        |             |                                     |           |  |  |  |  |  |  |  |                              |  |  |  |  |  |
| MW  | 103               | 96   | 162              | 134               | 144              | 161   | 109                              | 95          | 194  | 203  | 183  | 257  | 133  | 174                                 | 154       |             |                                     |           |  |  |  |  |  |  |  |                              |  |  |  |  |  |
| HW  | 116               | 121  | 274              | 192               | 187              | 221   | 125                              | 108         | 318  | 368  | 222  | 403  | 274  | 368                                 | 403       |             |                                     |           |  |  |  |  |  |  |  |                              |  |  |  |  |  |
| am  | 21.               | 30.  | 17.              | 6.                | 2.               | 5.,6. | oft                              | 3.          | 28.  | 25.  | 5.   | 9.   |  |                                     |           |             |                                     |           |  |  |  |  |  |  |  |                              |  |  |  |  |  |
|   | <b>1941/1950</b>  |      |                  |                   |                  |       |                                  |             |      |      |      |      |  |                                     |           |             |                                     |           |  |  |  |  |  |  |  |                              |  |  |  |  |  |
| NW  | 93                | 120  | 116              | 134               | 145              | 163   | 124                              | 121         | 106  | 84   | 84   | 84   | 93   | 84                                  | 84        |             |                                     |           |  |  |  |  |  |  |  |                              |  |  |  |  |  |
| MNW   | 138               | 157  | 176              | 198               | 194              | 185   | 148                              | 143         | 131  | 122  | 119  | 115  | 122  | 113                                 | 107       |             |                                     |           |  |  |  |  |  |  |  |                              |  |  |  |  |  |
| MW  | 197               | 229  | 258              | 307               | 286              | 246   | 178                              | 171         | 156  | 153  | 136  | 148  | 254  | 157                                 | 205       |             |                                     |           |  |  |  |  |  |  |  |                              |  |  |  |  |  |
| MHW   | 289               | 336  | 367              | 413               | 428              | 342   | 240                              | 236         | 210  | 208  | 170  | 196  | 514  | 299                                 | 514       |             |                                     |           |  |  |  |  |  |  |  |                              |  |  |  |  |  |
| HW  | 504               | 525  | 581              | 688               | 637              | 415   | 369                              | 320         | 353  | 360  | 320  | 439  | 688  | 439                                 | 688       |             |                                     |           |  |  |  |  |  |  |  |                              |  |  |  |  |  |
| HW <sub>1</sub>   |                   |      |                  |                   |                  |       |                                  |             |      |      |      |      |  |                                     |           |             |                                     |           |  |  |  |  |  |  |  |                              |  |  |  |  |  |
| HW <sub>2</sub>   |                   |      |                  |                   |                  |       |                                  |             |      |      |      |      |  |                                     |           |             |                                     |           |  |  |  |  |  |  |  |                              |  |  |  |  |  |
| <b>Äußerste Wasserstände</b>  |                   |      |                  |                   |                  |       |                                  |             |      |      |      |      |  |                                     |           |             |                                     |           |  |  |  |  |  |  |  |                              |  |  |  |  |  |
|   | NW                |      |                  |                   |                  |       | HW                               |             |      |      |      |      |  |                                     |           |             |                                     |           |  |  |  |  |  |  |  |                              |  |  |  |  |  |
|   | 1954              |      |                  |                   |                  |       | 80 cm<br>14. Dezember 1953       |             |      |      |      |      | ungeh } 403 cm<br>überh } 9. Oktober       |                                     |           |             |                                     |           |  |  |  |  |  |  |  |                              |  |  |  |  |  |
|   | 1941/1950         |      |                  |                   |                  |       | 84 cm<br>Aug, Sept, Okt 1947 oft |             |      |      |      |      | ungeh } 688 cm<br>überh } 10. Februar 1946 |                                     |           |             |                                     |           |  |  |  |  |  |  |  |                              |  |  |  |  |  |
|   | NNW               |      |                  |                   |                  |       | HHW                              |             |      |      |      |      |  |                                     |           |             |                                     |           |  |  |  |  |  |  |  |                              |  |  |  |  |  |
|   | seit 1850         |      |                  |                   |                  |       | 72 cm<br>2. Oktober 1934         |             |      |      |      |      | ungeh } 688 cm<br>überh } 10. Februar 1946 |                                     |           |             |                                     |           |  |  |  |  |  |  |  |                              |  |  |  |  |  |
| <b>Eisverhältnisse 1954:</b> Randeis an 23 Tagen, Randeis und Eisbewegung an 14 Tagen.                  |                   |      |                  |                   |                  |       |                                  |             |      |      |      |      |  |                                     |           |             |                                     |           |  |  |  |  |  |  |  |                              |  |  |  |  |  |
| Wasser- und Schifffahrtsdirektion Hannover  |                   |      |                  |                   |                  |       |                                  |             |      |      |      |      |  |                                     |           |             |                                     |           |  |  |  |  |  |  |  |                              |  |  |  |  |  |

| Leine   |      |      |      |      |       |                              |      |      |      |      |      | Pegel: Schwarmstedt  |      |      |      |      |      |           |      |      |      | Rhume  |      |                    |      |     |     |     |      |   |     | Pegel: Berka   |      |      |     |     |      |      |     |      |     |                   |     |      |     |     |     |      |      |     |     |                     |      |     |      |     |     |     |      |     |     |     |  |
|---|------|------|------|------|-------|------------------------------|------|------|------|------|------|--|------|------|------|------|------|-----------|------|------|------|--|------|--------------------|------|-----|-----|-----|------|---|-----|--|------|------|-----|-----|------|------|-----|------|-----|-------------------|-----|------|-----|-----|-----|------|------|-----|-----|---------------------|------|-----|------|-----|-----|-----|------|-----|-----|-----|--|
| 5,85 km oberhalb der Mündung<br>PN = NN + 21,00 m. F <sub>N</sub> = 6453 km <sup>2</sup><br>Tagesmittel [Q s. S. 79]    |      |      |      |      |       |                              |      |      |      |      |      |  |      |      |      |      |      |           |      |      |      | 14 km oberhalb der Mündung<br>PN = NN + 130,43 m. F <sub>N</sub> = 893 km <sup>2</sup><br>Tagesmittel          |      |                    |      |     |     |     |      |   |     |  |      |      |     |     |      |      |     |      |     |                   |     |      |     |     |     |      |      |     |     |                     |      |     |      |     |     |     |      |     |     |     |  |
| Nov   | Dez  | Jan  | Febr | März | April | Mai                          | Juni | Juli | Aug  | Sept | Okt  | Tag  | Nov  | Dez  | Jan  | Febr | März | April     | Mai  | Juni | Juli | Aug  | Sept | Okt                |      |     |     |     |      |   |     |  |      |      |     |     |      |      |     |      |     |                   |     |      |     |     |     |      |      |     |     |                     |      |     |      |     |     |     |      |     |     |     |  |
| Tageswerte (cm)   |      |      |      |      |       |                              |      |      |      |      |      | Tageswerte (cm)  |      |      |      |      |      |           |      |      |      | Tageswerte (cm)  |      |                    |      |     |     |     |      |   |     | Tageswerte (cm)  |      |      |     |     |      |      |     |      |     |                   |     |      |     |     |     |      |      |     |     |                     |      |     |      |     |     |     |      |     |     |     |  |
| 122   | 110  | 128  | 166  | 168  | 188   | 141                          | 116  | 95   | 287  | 231  | 224  | 1.   | 174  | 173  | 180  | 168  | 190  | 210       | 178  | 172  | 168  | 215  | 193  | 244                |      |     |     |     |      |   |     |  |      |      |     |     |      |      |     |      |     |                   |     |      |     |     |     |      |      |     |     |                     |      |     |      |     |     |     |      |     |     |     |  |
| 122   | 112  | 119  | 170  | 193  | 199   | 144                          | 119  | 99   | 268  | 220  | 254  | 2.   | 174  | 174  | 180  | 169  | 182  | 208       | 175  | 172  | 170  | 206  | 190  | 263                |      |     |     |     |      |   |     |  |      |      |     |     |      |      |     |      |     |                   |     |      |     |     |     |      |      |     |     |                     |      |     |      |     |     |     |      |     |     |     |  |
| 120   | 114  | 119  | 204  | 213  | 213   | 140                          | 121  | 102  | 246  | 209  | 300  | 3.   | 174  | 174  | 178  | 169  | 182  | 216       | 179  | 171  | 171  | 203  | 206  | 250                |      |     |     |     |      |   |     |  |      |      |     |     |      |      |     |      |     |                   |     |      |     |     |     |      |      |     |     |                     |      |     |      |     |     |     |      |     |     |     |  |
| 117   | 113  | 117  | 206  | 196  | 220   | 137                          | 121  | 97   | 227  | 200  | 313  | 4.   | 173  | 175  | 180  | 169  | 184  | 230       | 181  | 174  | 168  | 197  | 206  | 234                |      |     |     |     |      |   |     |  |      |      |     |     |      |      |     |      |     |                   |     |      |     |     |     |      |      |     |     |                     |      |     |      |     |     |     |      |     |     |     |  |
| 116   | 110  | 118  | 215  | 197  | 241   | 140                          | 118  | 95   | 217  | 237  | 300  | 5.   | 174  | 173  | 178  | 169  | 182  | 230       | 179  | 171  | 168  | 195  | 193  | 226                |      |     |     |     |      |   |     |  |      |      |     |     |      |      |     |      |     |                   |     |      |     |     |     |      |      |     |     |                     |      |     |      |     |     |     |      |     |     |     |  |
| 117   | 109  | 117  | 210  | 179  | 249   | 146                          | 120  | 95   | 205  | 239  | 296  | 6.   | 174  | 172  | 172  | 171  | 184  | 221       | 177  | 169  | 170  | 193  | 187  | 260                |      |     |     |     |      |   |     |  |      |      |     |     |      |      |     |      |     |                   |     |      |     |     |     |      |      |     |     |                     |      |     |      |     |     |     |      |     |     |     |  |
| 115   | 107  | 117  | 215  | 169  | 243   | 141                          | 115  | 96   | 198  | 222  | 357  | 7.   | 173  | 172  | 173  | 171  | 182  | 212       | 175  | 170  | 170  | 189  | 189  | 202                |      |     |     |     |      |   |     |  |      |      |     |     |      |      |     |      |     |                   |     |      |     |     |     |      |      |     |     |                     |      |     |      |     |     |     |      |     |     |     |  |
| 114   | 106  | 110  | 210  | 169  | 231   | 137                          | 106  | 96   | 195  | 208  | 394  | 8.   | 174  | 173  | 174  | 172  | 180  | 204       | 176  | 170  | 168  | 187  | 187  | 268                |      |     |     |     |      |   |     |  |      |      |     |     |      |      |     |      |     |                   |     |      |     |     |     |      |      |     |     |                     |      |     |      |     |     |     |      |     |     |     |  |
| 110   | 108  | 109  | 220  | 160  | 216   | 136                          | 108  | 98   | 187  | 216  | 407  | 9.   | 175  | 175  | 176  | 173  | 180  | 199       | 172  | 169  | 168  | 190  | 185  | 249                |      |     |     |     |      |   |     |  |      |      |     |     |      |      |     |      |     |                   |     |      |     |     |     |      |      |     |     |                     |      |     |      |     |     |     |      |     |     |     |  |
| 111   | 108  | 113  | 224  | 151  | 207   | 132                          | 112  | 98   | 183  | 235  | 411  | 10.  | 173  | 175  | 176  | 174  | 181  | 194       | 170  | 168  | 168  | 189  | 187  | 234                |      |     |     |     |      |   |     |  |      |      |     |     |      |      |     |      |     |                   |     |      |     |     |     |      |      |     |     |                     |      |     |      |     |     |     |      |     |     |     |  |
| 114   | 108  | 112  | 221  | 149  | 196   | 125                          | 113  | 96   | 179  | 213  | 398  | 11.  | 172  | 175  | 178  | 176  | 183  | 189       | 171  | 169  | 172  | 187  | 186  | 223                |      |     |     |     |      |   |     |  |      |      |     |     |      |      |     |      |     |                   |     |      |     |     |     |      |      |     |     |                     |      |     |      |     |     |     |      |     |     |     |  |
| 115   | 110  | 120  | 225  | 147  | 186   | 123                          | 109  | 130  | 178  | 206  | 356  | 12.  | 173  | 175  | 184  | 177  | 185  | 188       | 170  | 170  | 212  | 186  | 192  | 217                |      |     |     |     |      |   |     |  |      |      |     |     |      |      |     |      |     |                   |     |      |     |     |     |      |      |     |     |                     |      |     |      |     |     |     |      |     |     |     |  |
| 115   | 110  | 142  | 225  | 147  | 178   | 123                          | 111  | 186  | 175  | 210  | 333  | 13.  | 174  | 175  | 205  | 179  | 186  | 186       | 168  | 169  | 259  | 186  | 190  | 210                |      |     |     |     |      |   |     |  |      |      |     |     |      |      |     |      |     |                   |     |      |     |     |     |      |      |     |     |                     |      |     |      |     |     |     |      |     |     |     |  |
| 117   | 105  | 182  | 227  | 149  | 171   | 120                          | 108  | 255  | 171  | 222  | 315  | 14.  | 174  | 175  | 200  | 178  | 183  | 188       | 173  | 172  | 240  | 187  | 189  | 205                |      |     |     |     |      |   |     |  |      |      |     |     |      |      |     |      |     |                   |     |      |     |     |     |      |      |     |     |                     |      |     |      |     |     |     |      |     |     |     |  |
| 120   | 104  | 217  | 196  | 146  | 170   | 118                          | 106  | 291  | 169  | 212  | 295  | 15.  | 176  | 173  | 199  | 177  | 182  | 197       | 179  | 169  | 236  | 189  | 187  | 203                |      |     |     |     |      |   |     |  |      |      |     |     |      |      |     |      |     |                   |     |      |     |     |     |      |      |     |     |                     |      |     |      |     |     |     |      |     |     |     |  |
| 120   | 108  | 227  | 149  | 145  | 175   | 114                          | 106  | 279  | 207  | 208  | 277  | 16.  | 180  | 172  | 235  | 175  | 183  | 201       | 177  | 168  | 224  | 194  | 186  | 201                |      |     |     |     |      |   |     |  |      |      |     |     |      |      |     |      |     |                   |     |      |     |     |     |      |      |     |     |                     |      |     |      |     |     |     |      |     |     |     |  |
| 123   | 106  | 263  | 137  | 143  | 189   | 116                          | 110  | 259  | 239  | 202  | 263  | 17.  | 181  | 173  | 221  | 174  | 185  | 196       | 179  | 167  | 217  | 189  | 194  | 197                |      |     |     |     |      |   |     |  |      |      |     |     |      |      |     |      |     |                   |     |      |     |     |     |      |      |     |     |                     |      |     |      |     |     |     |      |     |     |     |  |
| 124   | 107  | 281  | 135  | 143  | 186   | 109                          | 108  | 247  | 228  | 200  | 250  | 18.  | 177  | 173  | 216  | 173  | 186  | 192       | 177  | 167  | 243  | 185  | 190  | 193                |      |     |     |     |      |   |     |  |      |      |     |     |      |      |     |      |     |                   |     |      |     |     |     |      |      |     |     |                     |      |     |      |     |     |     |      |     |     |     |  |
| 124   | 108  | 261  | 130  | 141  | 175   | 114                          | 104  | 267  | 218  | 204  | 237  | 19.  | 175  | 173  | 209  | 174  | 190  | 190       | 177  | 170  | 268  | 185  | 190  | 193                |      |     |     |     |      |   |     |  |      |      |     |     |      |      |     |      |     |                   |     |      |     |     |     |      |      |     |     |                     |      |     |      |     |     |     |      |     |     |     |  |
| 120   | 107  | 251  | 127  | 141  | 169   | 113                          | 109  | 314  | 206  | 198  | 238  | 20.  | 175  | 174  | 207  | 171  | 194  | 191       | 181  | 165  | 272  | 185  | 197  | 193                |      |     |     |     |      |   |     |  |      |      |     |     |      |      |     |      |     |                   |     |      |     |     |     |      |      |     |     |                     |      |     |      |     |     |     |      |     |     |     |  |
| 120   | 101  | 242  | 124  | 147  | 170   | 126                          | 101  | 325  | 194  | 196  | 248  | 21.  | 175  | 173  | 224  | 170  | 194  | 192       | 191  | 169  | 238  | 184  | 194  | 192                |      |     |     |     |      |   |     |  |      |      |     |     |      |      |     |      |     |                   |     |      |     |     |     |      |      |     |     |                     |      |     |      |     |     |     |      |     |     |     |  |
| 120   | 104  | 243  | 126  | 151  | 168   | 140                          | 103  | 304  | 187  | 203  | 238  | 22.  | 174  | 174  | 220  | 169  | 199  | 194       | 180  | 166  | 218  | 185  | 196  | 191                |      |     |     |     |      |   |     |  |      |      |     |     |      |      |     |      |     |                   |     |      |     |     |     |      |      |     |     |                     |      |     |      |     |     |     |      |     |     |     |  |
| 117   | 108  | 250  | 126  | 157  | 169   | 136                          | 99   | 271  | 196  | 205  | 238  | 23.  | 175  | 176  | 211  | 171  | 206  | 190       | 187  | 166  | 207  | 238  | 197  | 198                |      |     |     |     |      |   |     |  |      |      |     |     |      |      |     |      |     |                   |     |      |     |     |     |      |      |     |     |                     |      |     |      |     |     |     |      |     |     |     |  |
| 115   | 108  | 237  | 121  | 159  | 165   | 130                          | 96   | 244  | 301  | 205  | 234  | 24.  | 173  | 179  | 202  | 170  | 207  | 189       | 180  | 167  | 203  | 247  | 195  | 196                |      |     |     |     |      |   |     |  |      |      |     |     |      |      |     |      |     |                   |     |      |     |     |     |      |      |     |     |                     |      |     |      |     |     |     |      |     |     |     |  |
| 113   | 110  | 215  | 125  | 163  | 163   | 123                          | 99   | 228  | 369  | 204  | 239  | 25.  | 172  | 174  | 190  | 173  | 205  | 184       | 173  | 168  | 203  | 230  | 194  | 199                |      |     |     |     |      |   |     |  |      |      |     |     |      |      |     |      |     |                   |     |      |     |     |     |      |      |     |     |                     |      |     |      |     |     |     |      |     |     |     |  |
| 115   | 107  | 199  | 119  | 168  | 155   | 127                          | 99   | 217  | 366  | 199  | 234  | 26.  | 173  | 169  | 185  | 202  | 204  | 184       | 173  | 168  | 236  | 221  | 195  | 197                |      |     |     |     |      |   |     |  |      |      |     |     |      |      |     |      |     |                   |     |      |     |     |     |      |      |     |     |                     |      |     |      |     |     |     |      |     |     |     |  |
| 115   | 107  | 168  | 127  | 182  | 155   | 122                          | 102  | 252  | 331  | 197  | 231  | 27.  | 174  | 175  | 175  | 188  | 220  | 182       | 171  | 168  | 262  | 213  | 205  | 198                |      |     |     |     |      |   |     |  |      |      |     |     |      |      |     |      |     |                   |     |      |     |     |     |      |      |     |     |                     |      |     |      |     |     |     |      |     |     |     |  |
| 113   | 106  | 158  | 173  | 202  | 151   | 119                          | 98   | 316  | 300  | 206  | 244  | 28.  | 173  | 186  | 172  | 186  | 213  | 181       | 168  | 168  | 239  | 208  | 204  | 208                |      |     |     |     |      |   |     |  |      |      |     |     |      |      |     |      |     |                   |     |      |     |     |     |      |      |     |     |                     |      |     |      |     |     |     |      |     |     |     |  |
| 112   | 114  | 150  |      | 206  | 149   | 116                          | 95   | 324  | 305  | 218  | 264  | 29.  | 173  | 185  | 174  |      | 205  | 180       | 170  | 169  | 231  | 204  | 200  | 202                |      |     |     |     |      |   |     |  |      |      |     |     |      |      |     |      |     |                   |     |      |     |     |     |      |      |     |     |                     |      |     |      |     |     |     |      |     |     |     |  |
| 110   | 130  | 154  |      | 196  | 152   | 117                          | 98   | 314  | 264  | 222  | 268  | 30.  | 174  | 186  | 174  |      | 202  | 179       | 172  | 170  | 231  | 197  | 201  | 202                |      |     |     |     |      |   |     |  |      |      |     |     |      |      |     |      |     |                   |     |      |     |     |     |      |      |     |     |                     |      |     |      |     |     |     |      |     |     |     |  |
|   |      | 132  | 152  |      | 188   |                              | 113  | 299  |      | 250  | 267  | 31.  |      | 186  | 172  |      | 202  |           | 171  | 226  | 195  |  | 205  |                    |      |     |     |     |      |   |     |  |      |      |     |     |      |      |     |      |     |                   |     |      |     |     |     |      |      |     |     |                     |      |     |      |     |     |     |      |     |     |     |  |
| 3506  | 3397 | 3391 | 4253 | 5165 | 5599  | 3938                         | 3230 | 6389 | 7246 | 6347 | 8923 | Σ  | 5231 | 5437 | 5920 | 4888 | 5941 | 5897      | 5459 | 5071 | 6526 | 6159   | 5805 | 6743               |      |     |     |     |      |   |     |  |      |      |     |     |      |      |     |      |     |                   |     |      |     |     |     |      |      |     |     |                     |      |     |      |     |     |     |      |     |     |     |  |
| Wi: n 181; 27 911   |      |      |      |      |       |                              |      |      |      |      |      | So: n 184; 36 073  |      |      |      |      |      |           |      |      |      | Jahr: n 365; 63 984  |      |                    |      |     |     |     |      |   |     | Wi: n 181; 33 314  |      |      |     |     |      |      |     |      |     | So: n 184; 35 763 |     |      |     |     |     |      |      |     |     | Jahr: n 365; 69 077 |      |     |      |     |     |     |      |     |     |     |  |
| Hauptzahlen (cm)  |      |      |      |      |       |                              |      |      |      |      |      | Hauptzahlen (cm)   |      |      |      |      |      |           |      |      |      | Hauptzahlen (cm)   |      |                    |      |     |     |     |      |   |     | Hauptzahlen (cm)   |      |      |     |     |      |      |     |      |     |                   |     |      |     |     |     |      |      |     |     |                     |      |     |      |     |     |     |      |     |     |     |  |
| Nov   | Dez  | Jan  | Febr | März | Apr   | Mai                          | Juni | Juli | Aug  | Sept | Okt  | Wi   | So   | Jahr | Nov  | Dez  | Jan  | Febr      | März | Apr  | Mai  | Juni   | Juli | Aug                | Sept | Okt | Wi  | So  | Jahr | Nov                                     | Dez | Jan  | Febr | März | Apr | Mai | Juni | Juli | Aug | Sept | Okt | Wi                | So  | Jahr | Nov | Dez | Jan | Febr | März | Apr | Mai | Juni                | Juli | Aug | Sept | Okt | Wi  | So  | Jahr |     |     |     |  |
| 1954  |      |      |      |      |       |                              |      |      |      |      |      | 1954   |      |      |      |      |      |           |      |      |      | 1954   |      |                    |      |     |     |     |      |   |     | 1954   |      |      |     |     |      |      |     |      |     |                   |     |      |     |     |     |      |      |     |     |                     |      |     |      |     |     |     |      |     |     |     |  |
| 9.  | 21.  | 9.   | 26.  | 19.  | 29.   | 18.                          | 29.  | oft  | 15.  | 21.  | 1.   |  |      |      | am   | 11.  | 26.  | oft       | 1.   | 8.   | 30.  | 13.  | 20.  | oft                | 21.  | 9.  | 22. |     |      |   | am  | 11.  | 26.  | oft  | 1.  | 8.  | 30.  | 13.  | 20. | oft  | 21. | 9.                | 22. |      |     |     | am  | 11.  | 26.  | oft | 1.  | 8.                  | 30.  | 13. | 20.  | oft | 21. | 9.  | 22.  |     |     |     |  |
| 30.   | 101  | 109  | 119  | 141  | 149   | 109                          | 95   | 95   | 169  | 196  | 224  | 101  | 95   | 95   | NW   | 172  | 169  | 172       | 168  | 180  | 179  | 168  | 165  | 168                | 184  | 185 | 191 | 168 | 165  | 165                                     | NW  | 172  | 169  | 172  | 168 | 180 | 179  | 168  | 165 | 168  | 184 | 185               | 191 | 168  | 165 | 165 | NW  | 172  | 169  | 172 | 168 | 180                 | 179  | 168 | 165  | 168 | 184 | 185 | 191  | 168 | 165 | 165 |  |
| 110   | 110  | 174  | 173  | 167  | 187   | 127                          | 108  | 206  | 234  | 212  | 288  | 154  | 196  | 175  | MW   | 174  | 175  | 191       | 175  | 192  | 197  | 176  | 169  | 211                | 199  | 194 | 218 | 184 | 194  | 189                                     | MW  | 174  | 175  | 191  | 175 | 192 | 197  | 176  | 169 | 211  | 199 | 194               | 218 | 184  | 194 | 189 | MW  | 174  | 175  | 191 | 175 | 192                 | 197  | 176 | 169  | 211 | 199 | 194 | 218  | 184 | 194 | 189 |  |
| 117   | 110  | 174  | 173  | 167  | 187   | 127                          | 108  | 206  | 234  | 212  | 288  | 154  | 196  | 175  | HW   | 190  | 190  | 246       | 236  | 226  | 248  | 218  | 194  | 297                | 262  | 227 | 303 | 248 | 303  | 303                                     | HW  | 190  | 190  | 246  | 236 | 226 | 248  | 218  | 194 | 297  | 262 | 227               | 303 | 248  | 303 | 303 | HW  | 190  | 190  | 246 | 236 | 226                 | 248  | 218 | 194  | 297 | 262 | 227 | 303  | 248 | 303 | 303 |  |
| 127   | 134  | 285  | 227  | 227  | 251   | 149                          | 124  | 328  | 375  | 246  | 414  | 285  | 414  | 414  | am   | 16.  | 31.  | 16.       | 26.  | 27.  | 3.   | 13.  | 19.  | 19.                | 23.  | 30. | 3.  |     |      |   | am  | 16.  | 31.  | 16.  | 26. | 27. | 3.   | 13.  | 19. | 19.  | 23. | 30.               | 3.  |      |     |     | am  | 16.  | 31.  | 16. | 26. | 27.                 | 3.   | 13. | 19.  | 19. | 23. | 30. | 3.   |     |     |     |  |
| 17.   | 31.  | 18.  | 14.  | 3.   | 6.    | 6.                           | 3.   | 21.  | 25.  | 6.   | 11.  |  |      |      |      |      |      |           |      |      |      |  |      |                    |      |     |     |     |      |   |     |  |      |      |     |     |      |      |     |      |     |                   |     |      |     |     |     |      |      |     |     |                     |      |     |      |     |     |     |      |     |     |     |  |
| 19—/19—*)   |      |      |      |      |       |                              |      |      |      |      |      | 19—/19—*)  |      |      |      |      |      |           |      |      |      | 19—/19—*)  |      |                    |      |     |     |     |      |   |     | 19—/19—*)  |      |      |     |     |      |      |     |      |     |                   |     |      |     |     |     |      |      |     |     |                     |      |     |      |     |     |     |      |     |     |     |  |
| Äußerste Wasserstände   |      |      |      |      |       |                              |      |      |      |      |      | Äußerste Wasserstände  |      |      |      |      |      |           |      |      |      | Äußerste Wasserstände  |      |                    |      |     |     |     |      |   |     | Äußerste Wasserstände  |      |      |     |     |      |      |     |      |     |                   |     |      |     |     |     |      |      |     |     |                     |      |     |      |     |     |     |      |     |     |     |  |
| NW  |      |      |      |      |       | HW                           |      |      |      |      |      | NW   |      |      |      |      |      | HW        |      |      |      |  |      | NW                 |      |     |     |     |      | HW                                      |     |  |      |      |     |     |      |      |     |      |     |                   |     |      |     |     |     |      |      |     |     |                     |      |     |      |     |     |     |      |     |     |     |  |
| 1954  |      |      |      |      |       | 95 cm<br>Juni, Juli oft      |      |      |      |      |      | ungeh }<br>überh } 414 cm<br>11. Oktober   |      |      |      |      |      | 1954      |      |      |      |  |      | 165 cm<br>20. Jnni |      |     |     |     |      | ungeh }<br>überh } 303 cm<br>6. Oktober |     |  |      |      |     |     |      |      |     |      |     |                   |     |      |     |     |     |      |      |     |     |                     |      |     |      |     |     |     |      |     |     |     |  |
| 19—/19—*)   |      |      |      |      |       |                              |      |      |      |      |      |  |      |      |      |      |      | 19—/19—*) |      |      |      |  |      |                    |      |     |     |     |      |   |     |  |      |      |     |     |      |      |     |      |     |                   |     |      |     |     |     |      |      |     |     |                     |      |     |      |     |     |     |      |     |     |     |  |
| NNW   |      |      |      |      |       | HHW                          |      |      |      |      |      | NNW  |      |      |      |      |      | HHW       |      |      |      |  |      | NNW                |      |     |     |     |      | HHW                                     |     |  |      |      |     |     |      |      |     |      |     |                   |     |      |     |     |     |      |      |     |     |                     |      |     |      |     |     |     |      |     |     |     |  |
| seit 1954   |      |      |      |      |       | 95 cm<br>Juni, Juli oft 1954 |      |      |      |      |      | ungeh }<br>überh } 414 cm<br>11. Oktober 1954  |      |      |      |      |      | seit *)   |      |      |      |  |      |                    |      |     |     |     |      | ungeh }<br>überh }                      |     |  |      |      |     |     |      |      |     |      |     |                   |     |      |     |     |     |      |      |     |     |                     |      |     |      |     |     |     |      |     |     |     |  |
| Eisverhältnisse 1954: Eisbewegung an 1 Tag, Randeis an 1 Tag, Randeis und Eisbewegung an 8 Tagen, Eisstand an 24 Tagen. |      |      |      |      |       |                              |      |      |      |      |      | Eisverhältnisse 1954: Keine Angaben.   |      |      |      |      |      |           |      |      |      | Eisverhältnisse 1954: Keine Angaben.   |      |                    |      |     |     |     |      |   |     | Eisverhältnisse 1954: Keine Angaben.   |      |      |     |     |      |      |     |      |     |                   |     |      |     |     |     |      |      |     |     |                     |      |     |      |     |     |     |      |     |     |     |  |
| *) Jahresreihe und Grenzwerte können noch nicht gebracht werden, da neuer Pegel.  |      |      |      |      |       |                              |      |      |      |      |      | *) Vergleichsreihe und Grenzwerte können noch nicht gebracht werden, da Pegel erst ab Oktober 1953 in Betrieb. |      |      |      |      |      |           |      |      |      | *) Vergleichsreihe und Grenzwerte können noch nicht gebracht werden, da Pegel erst ab Oktober 1953 in Betrieb. |      |                    |      |     |     |     |      |   |     | *) Vergleichsreihe und Grenzwerte können noch nicht gebracht werden, da Pegel erst ab Oktober 1953 in Betrieb. |      |      |     |     |      |      |     |      |     |                   |     |      |     |     |     |      |      |     |     |                     |      |     |      |     |     |     |      |     |     |     |  |
| Wasser- und Schifffahrtsdirektion Hannover  |      |      |      |      |       |                              |      |      |      |      |      |  |      |      |      |      |      |           |      |      |      |  |      |                    |      |     |     |     |      |   |     | LfG Hannover   |      |      |     |     |      |      |     |      |     |                   |     |      |     |     |     |      |      |     |     |                     |      |     |      |     |     |     |      |     |     |     |  |

| Innerste   |                   |          |      |                   |               |          |                       |          |      |      |          | Pegel: Hohenrode           |             |                                 |           |             |                                 |           |  |  |  |  |  | Dauerzahlen der Wasserstände |  |  |  |
|--|-------------------|----------|------|-------------------|---------------|----------|-----------------------|----------|------|------|----------|----------------------------|-------------|---------------------------------|-----------|-------------|---------------------------------|-----------|--|--|--|--|--|------------------------------|--|--|--|
| 56 km oberhalb der Mündung<br>PN = NN + 144,38 m n. S. FN = 212 km <sup>2</sup><br>Tagesmittel [Q s. S. 82]      |                   |          |      |                   |               |          |                       |          |      |      |          |                            |             |                                 |           |             |                                 |           |  |  |  |  |  |                              |  |  |  |
| Tag  | Nov               | Dez      | Jan  | Febr              | März          | April    | Mai                   | Juni     | Juli | Aug  | Sept     | Okt                        | Wasserstand | Unterschreitungs-dauer in Tagen |           | Wasserstand | Unterschreitungs-dauer in Tagen |           |  |  |  |  |  |                              |  |  |  |
|  |                   |          |      |                   |               |          |                       |          |      |      |          |                            | cm          | 1954                            | 1941/1950 | cm          | 1954                            | 1941/1950 |  |  |  |  |  |                              |  |  |  |
| <b>Tageswerte (cm)</b>   |                   |          |      |                   |               |          |                       |          |      |      |          | <b>Pegel: Schwarmstedt</b> |             |                                 |           |             |                                 |           |  |  |  |  |  |                              |  |  |  |
| 1.   | 47                | 44       | 45   | 89                | 65            | 85       | 59                    | 52       | 52   | 107  | 91       | 128                        |             |                                 |           |             |                                 |           |  |  |  |  |  |                              |  |  |  |
| 2.   | 46                | 44       | 40   | 112               | 56            | 87       | 57                    | 52       | 52   | 98   | 85       | 142                        | 420         | 365                             |           |             |                                 |           |  |  |  |  |  |                              |  |  |  |
| 3.   | 45                | 43       | 40   | 133               | 57            | 90       | 59                    | 54       | 52   | 89   | 103      | 134                        | 400         | 363                             |           |             |                                 |           |  |  |  |  |  |                              |  |  |  |
| 4.   | 44                | 44       | 39   | 130               | 62            | 97       | 62                    | 49       | 50   | 81   | 111      | 123                        | 380         | 361                             |           |             |                                 |           |  |  |  |  |  |                              |  |  |  |
| 5.   | 44                | 44       | 43   | 132               | 61            | 107      | 58                    | 49       | 50   | 74   | 106      | 113                        | 360         | 359                             |           |             |                                 |           |  |  |  |  |  |                              |  |  |  |
| 6.   | 44                | 43       | 42   | 129               | 59            | 109      | 56                    | 48       | 52   | 76   | 100      | 136                        | 340         | 357                             |           |             |                                 |           |  |  |  |  |  |                              |  |  |  |
| 7.   | 44                | 45       | 41   | 123               | 56            | 102      | 54                    | 48       | 51   | 76   | 93       | 156                        | 320         | 353                             |           |             |                                 |           |  |  |  |  |  |                              |  |  |  |
| 8.   | 44                | 44       | 43   | 130               | 57            | 95       | 54                    | 47       | 48   | 75   | 101      | 147                        | 300         | 342                             |           |             |                                 |           |  |  |  |  |  |                              |  |  |  |
| 9.   | 42                | 43       | 42   | 85                | 57            | 89       | 55                    | 46       | 45   | 74   | 96       | 132                        | 280         | 336                             |           |             |                                 |           |  |  |  |  |  |                              |  |  |  |
| 10.  | 43                | 39       | 40   | 69                | 57            | 81       | 52                    | 46       | 40   | 69   | 92       | 120                        | 260         | 324                             |           |             |                                 |           |  |  |  |  |  |                              |  |  |  |
| 11.  | 43                | 43       | 48   | 68                | 59            | 78       | 50                    | 48       | 59   | 69   | 88       | 109                        | 240         | 306                             |           |             |                                 |           |  |  |  |  |  |                              |  |  |  |
| 12.  | 42                | 40       | 58   | 59                | 60            | 74       | 49                    | 46       | 121  | 73   | 107      | 102                        | 220         | 275                             |           |             |                                 |           |  |  |  |  |  |                              |  |  |  |
| 13.  | 42                | 39       | 82   | 50                | 60            | 71       | 49                    | 46       | 192  | 66   | 101      | 94                         | 200         | 237                             |           |             |                                 |           |  |  |  |  |  |                              |  |  |  |
| 14.  | 46                | 39       | 74   | 52                | 60            | 68       | 49                    | 45       | 172  | 68   | 98       | 89                         | 180         | 210                             |           |             |                                 |           |  |  |  |  |  |                              |  |  |  |
| 15.  | 46                | 39       | 124  | 63                | 57            | 76       | 50                    | 45       | 159  | 73   | 97       | 84                         | 160         | 183                             |           |             |                                 |           |  |  |  |  |  |                              |  |  |  |
| 16.  | 49                | 40       | 123  | 61                | 56            | 76       | 48                    | 46       | 195  | 77   | 94       | 78                         | 140         | 150                             |           |             |                                 |           |  |  |  |  |  |                              |  |  |  |
| 17.  | 49                | 40       | 116  | 49                | 55            | 73       | 48                    | 45       | 131  | 71   | 95       | 74                         | 120         | 107                             |           |             |                                 |           |  |  |  |  |  |                              |  |  |  |
| 18.  | 48                | 40       | 110  | 52                | 55            | 71       | 48                    | 41       | 148  | 69   | 90       | 70                         | 100         | 17                              |           |             |                                 |           |  |  |  |  |  |                              |  |  |  |
| 19.  | 47                | 42       | 121  | 44                | 57            | 73       | 48                    | 46       | 172  | 70   | 89       | 72                         |             |                                 |           |             |                                 |           |  |  |  |  |  |                              |  |  |  |
| 20.  | 47                | 44       | 132  | 50                | 60            | 74       | 57                    | 41       | 156  | 68   | 94       | 72                         | 180         | 210                             |           |             |                                 |           |  |  |  |  |  |                              |  |  |  |
| 21.  | 46                | 47       | 110  | 53                | 66            | 73       | 72                    | 45       | 140  | 68   | 88       | 67                         | 160         | 183                             |           |             |                                 |           |  |  |  |  |  |                              |  |  |  |
| 22.  | 46                | 43       | 106  | 49                | 72            | 73       | 64                    | 49       | 124  | 71   | 89       | 66                         | 140         | 150                             |           |             |                                 |           |  |  |  |  |  |                              |  |  |  |
| 23.  | 44                | 40       | 95   | 48                | 80            | 71       | 59                    | 50       | 112  | 129  | 88       | 70                         | 120         | 107                             |           |             |                                 |           |  |  |  |  |  |                              |  |  |  |
| 24.  | 45                | 39       | 93   | 49                | 80            | 70       | 58                    | 53       | 102  | 140  | 84       | 67                         | 100         | 17                              |           |             |                                 |           |  |  |  |  |  |                              |  |  |  |
| 25.  | 46                | 43       | 83   | 38                | 80            | 67       | 56                    | 53       | 103  | 129  | 84       | 70                         |             |                                 |           |             |                                 |           |  |  |  |  |  |                              |  |  |  |
| 26.  | 44                | 43       | 82   | 66                | 83            | 66       | 55                    | 55       | 135  | 117  | 86       | 67                         |             |                                 |           |             |                                 |           |  |  |  |  |  |                              |  |  |  |
| 27.  | 44                | 42       | 74   | 55                | 92            | 65       | 54                    | 56       | 153  | 106  | 97       | 67                         |             |                                 |           |             |                                 |           |  |  |  |  |  |                              |  |  |  |
| 28.  | 44                | 45       | 70   | 57                | 91            | 62       | 52                    | 54       | 140  | 97   | 92       | 75                         |             |                                 |           |             |                                 |           |  |  |  |  |  |                              |  |  |  |
| 29.  | 46                | 47       | 76   |                   | 89            | 60       | 52                    | 54       | 130  | 115  | 92       | 71                         |             |                                 |           |             |                                 |           |  |  |  |  |  |                              |  |  |  |
| 30.  | 45                | 45       | 75   |                   | 84            | 60       | 52                    | 54       | 123  | 106  | 92       | 72                         |             |                                 |           |             |                                 |           |  |  |  |  |  |                              |  |  |  |
| 31.  |                   | 45       | 75   |                   | 81            |          | 52                    |          | 114  | 98   |          | 72                         |             |                                 |           |             |                                 |           |  |  |  |  |  |                              |  |  |  |
| Σ  | 1352              | 1318     | 2342 | 2095              | 2064          | 2343     | 1688                  | 1463     | 3373 | 2699 | 2823     | 2939                       |             |                                 |           |             |                                 |           |  |  |  |  |  |                              |  |  |  |
|  | Wi: n 181; 11 514 |          |      | So: n 184; 14 985 |               |          | Jahr: n 365; 26 499   |          |      |      |          |                            |             |                                 |           |             |                                 |           |  |  |  |  |  |                              |  |  |  |
| <b>Hauptzahlen (cm)</b>  |                   |          |      |                   |               |          |                       |          |      |      |          | <b>Pegel: Berka</b>        |             |                                 |           |             |                                 |           |  |  |  |  |  |                              |  |  |  |
|  | Nov               | Dez      | Jan  | Febr              | März          | Apr      | Mai                   | Juni     | Juli | Aug  | Sept     | Okt                        | Wi          | So                              | Jahr      |             |                                 |           |  |  |  |  |  |                              |  |  |  |
|  | <b>1954</b>       |          |      |                   |               |          |                       |          |      |      |          |                            |             |                                 |           |             |                                 |           |  |  |  |  |  |                              |  |  |  |
| am   | oft               | oft      | 4.   | 25.               | 17., 18., 30. | 29., 30. | oft                   | 18., 20. | 10.  | 13.  | 24., 25. | 22.                        |             |                                 |           |             |                                 |           |  |  |  |  |  |                              |  |  |  |
| NW   | 42                | 39       | 39   | 38                | 55            | 60       | 48                    | 41       | 40   | 66   | 84       | 66                         | 38          | 40                              | 38        | 300         | 365                             |           |  |  |  |  |  |                              |  |  |  |
| MW   | 45                | 43       | 76   | 75                | 67            | 78       | 54                    | 49       | 109  | 87   | 94       | 95                         | 64          | 81                              | 73        | 280         | 364                             |           |  |  |  |  |  |                              |  |  |  |
| HW   | 54                | 47       | 132  | 133               | 95            | 110      | 89                    | 67       | 198  | 148  | 190      | 160                        | 133         | 198                             | 198       | 260         | 358                             |           |  |  |  |  |  |                              |  |  |  |
| am   | 17.               | 21., 29. | 20.  | 3.                | 28.           | 5., 6.   | 21.                   | 20.      | 13.  | 23.  | 3.       | 7.                         |             |                                 |           | 240         | 351                             |           |  |  |  |  |  |                              |  |  |  |
|  | <b>19—/19—*)</b>  |          |      |                   |               |          |                       |          |      |      |          |                            |             |                                 |           | 220         | 328                             |           |  |  |  |  |  |                              |  |  |  |
| NW   |                   |          |      |                   |               |          |                       |          |      |      |          |                            |             |                                 |           | 200         | 279                             |           |  |  |  |  |  |                              |  |  |  |
| MNW  |                   |          |      |                   |               |          |                       |          |      |      |          |                            |             |                                 |           |             |                                 |           |  |  |  |  |  |                              |  |  |  |
| MW   |                   |          |      |                   |               |          |                       |          |      |      |          |                            |             |                                 |           |             |                                 |           |  |  |  |  |  |                              |  |  |  |
| MHW  |                   |          |      |                   |               |          |                       |          |      |      |          |                            |             |                                 |           |             |                                 |           |  |  |  |  |  |                              |  |  |  |
| HW   |                   |          |      |                   |               |          |                       |          |      |      |          |                            |             |                                 |           |             |                                 |           |  |  |  |  |  |                              |  |  |  |
| HW <sub>1</sub>  |                   |          |      |                   |               |          |                       |          |      |      |          |                            |             |                                 |           |             |                                 |           |  |  |  |  |  |                              |  |  |  |
| HW <sub>2</sub>  |                   |          |      |                   |               |          |                       |          |      |      |          |                            |             |                                 |           |             |                                 |           |  |  |  |  |  |                              |  |  |  |
| <b>Äußerste Wasserstände</b>   |                   |          |      |                   |               |          |                       |          |      |      |          | <b>Pegel: Hohenrode</b>    |             |                                 |           |             |                                 |           |  |  |  |  |  |                              |  |  |  |
|  | NW                |          |      |                   |               |          | HW                    |          |      |      |          |                            |             |                                 |           |             |                                 |           |  |  |  |  |  |                              |  |  |  |
| 1954   | 38 cm             |          |      |                   |               |          | ungeh } 198 cm        |          |      |      |          |                            | 200         | 365                             |           |             |                                 |           |  |  |  |  |  |                              |  |  |  |
| 19—/19—*)  | 25. Februar       |          |      |                   |               |          | überh } 13. Juli      |          |      |      |          |                            | 180         | 363                             |           |             |                                 |           |  |  |  |  |  |                              |  |  |  |
|  |                   |          |      |                   |               |          | ungeh } 198 cm        |          |      |      |          |                            | 160         | 361                             |           |             |                                 |           |  |  |  |  |  |                              |  |  |  |
|  |                   |          |      |                   |               |          | überh } 13. Juli 1954 |          |      |      |          |                            | 140         | 351                             |           |             |                                 |           |  |  |  |  |  |                              |  |  |  |
|  |                   |          |      |                   |               |          |                       |          |      |      |          |                            | 120         | 327                             |           |             |                                 |           |  |  |  |  |  |                              |  |  |  |
|  |                   |          |      |                   |               |          |                       |          |      |      |          |                            | 80          | 246                             |           |             |                                 |           |  |  |  |  |  |                              |  |  |  |
|  |                   |          |      |                   |               |          |                       |          |      |      |          |                            | 60          | 169                             |           |             |                                 |           |  |  |  |  |  |                              |  |  |  |
|  |                   |          |      |                   |               |          |                       |          |      |      |          |                            | 40          | 7                               |           |             |                                 |           |  |  |  |  |  |                              |  |  |  |
|  | NNW               |          |      |                   |               |          | HHW                   |          |      |      |          |                            |             |                                 |           |             |                                 |           |  |  |  |  |  |                              |  |  |  |
| seit 1949  | 29 cm             |          |      |                   |               |          | ungeh } 198 cm        |          |      |      |          |                            |             |                                 |           |             |                                 |           |  |  |  |  |  |                              |  |  |  |
|  | 28. August 1950   |          |      |                   |               |          | überh } 13. Juli 1954 |          |      |      |          |                            |             |                                 |           |             |                                 |           |  |  |  |  |  |                              |  |  |  |
| <b>Eisverhältnisse 1954:</b> Randeis an 40 Tagen, Eisstand an 8 Tagen.   |                   |          |      |                   |               |          |                       |          |      |      |          |                            |             |                                 |           |             |                                 |           |  |  |  |  |  |                              |  |  |  |
| *) Jahresreihe und Grenzwerte können noch nicht gebracht werden, da der Pegel erst seit 1. Februar 1949 besteht. |                   |          |      |                   |               |          |                       |          |      |      |          |                            |             |                                 |           |             |                                 |           |  |  |  |  |  |                              |  |  |  |
| Schrägdruck: 12-Uhr-Ablesungen (Schreibpegel versagte).  |                   |          |      |                   |               |          |                       |          |      |      |          |                            |             |                                 |           |             |                                 |           |  |  |  |  |  |                              |  |  |  |
| LFG Hannover   |                   |          |      |                   |               |          |                       |          |      |      |          |                            |             |                                 |           |             |                                 |           |  |  |  |  |  |                              |  |  |  |

| Innerste<br>26 km oberhalb der Mündung<br>PN = NN + 78,82 m a. S. FN = 899 km <sup>2</sup><br>Tagesmittel [Q s. S. 83]  |      |      |                  |      |       |      |      |      |      |      |      |                   | Pegel: Heinde   |                     |                 |                   |                     |       |      |      |      |      |      |     |      | Nette                  |     |                 |                 |       |      |      |      |     |      |     |     |     | Pegel: Bornum<br>20 km oberhalb der Mündung<br>PN = NN + 116,28 m a. S. FN = 162 km <sup>2</sup><br>12-Uhr-Ablesungen |      |                 |                 |     |      |      |     |      |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |    |    |
|---|------|------|------------------|------|-------|------|------|------|------|------|------|-------------------|---|---------------------|-----------------|-------------------|---------------------|-------|------|------|------|------|------|-----|------|------------------------|-----|-----------------|-----------------|-------|------|------|------|-----|------|-----|-----|-----|---|------|-----------------|-----------------|-----|------|------|-----|------|-----|-----|-----|-----|----|----|-----------------|-----------------|----|----|----|----|-----|-----|-----|-----|-----|----|----|-----------------|-----------------|----|----|----|----|-----|-----|----|----|
| Nov   | Dez  | Jan  | Febr             | März | April | Mai  | Juni | Juli | Aug  | Sept | Okt  | Tag               | Nov   | Dez                 | Jan             | Febr              | März                | April | Mai  | Juni | Juli | Aug  | Sept | Okt | Nov  | Dez                    | Jan | Febr            | März            | April | Mai  | Juni | Juli | Aug | Sept | Okt | Nov | Dez | Jan   | Febr | März            | April           | Mai | Juni | Juli | Aug | Sept | Okt |     |     |     |    |    |                 |                 |    |    |    |    |     |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |    |    |
| <b>Tageswerte (em)</b>  |      |      |                  |      |       |      |      |      |      |      |      |                   | <b>Tageswerte (cm)</b>  |                     |                 |                   |                     |       |      |      |      |      |      |     |      | <b>Tageswerte (cm)</b> |     |                 |                 |       |      |      |      |     |      |     |     |     | <b>Tageswerte (cm)</b>  |      |                 |                 |     |      |      |     |      |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |    |    |
| 220   | 216  | 225  | 234 <sup>h</sup> | 270  | 275   | 236  | 223  | 210  | 308  | 282  | 347  | 1.                | 28  | 28                  | 37              | 28 <sup>h</sup>   | 144                 | 50    | 31   | 23   | 20   | 79   | 51   | 149 | 2.   | 28                     | 22  | 28              | 29 <sup>h</sup> | 42    | 53   | 30   | 25   | 28  | 67   | 57  | 123 | 3.  | 32  | 31   | 32              | 28 <sup>h</sup> | 63  | 63   | 29   | 25  | 30   | 58  | 110 | 117 | 4.  | 35 | 31 | 33              | 27 <sup>h</sup> | 53 | 75 | 33 | 20 | 29  | 55  | 114 | 95  | 5.  | 28 | 29 | 27              | 26 <sup>h</sup> | 43 | 76 | 24 | 22 | 25  | 48  | 85 | 83 |
| 216   | 216  | 217  | 228 <sup>h</sup> | 246  | 302   | 233  | 207  | 207  | 264  | 288  | 422  | 6.                | 29  | 25                  | 28              | 25 <sup>h</sup>   | 53                  | 72    | 32   | 26   | 28   | 43   | 75   | 154 | 7.   | 30                     | 27  | 28              | 26 <sup>h</sup> | 41    | 62   | 30   | 29   | 29  | 44   | 67  | 165 | 8.  | 29  | 25   | 29              | 26 <sup>h</sup> | 35  | 56   | 24   | 25  | 31   | 49  | 127 | 132 | 9.  | 30 | 27 | 30              | 25 <sup>o</sup> | 33 | 53 | 22 | 17 | 22  | 46  | 79  | 112 | 10. | 28 | 28 | 20              | 25              | 33 | 43 | 23 | 20 | 28  | 39  | 66 | 92 |
| 114   | 216  | 222  | 226 <sup>h</sup> | 248  | 295   | 231  | 219  | 208  | 264  | 276  | 458  | 11.               | 29  | 25                  | 30              | 28                | 31                  | 41    | 24   | 21   | 52   | 37   | 63   | 86  | 12.  | 28                     | 29  | 43              | 27              | 30    | 40   | 22   | 20   | 137 | 39   | 87  | 77  | 13. | 28  | 30   | 67              | 29              | 31  | 39   | 20   | 21  | 196  | 39  | 93  | 67  | 14. | 31 | 29 | 86              | 30              | 30 | 35 | 18 | 23 | 165 | 38  | 81  | 65  | 15. | 29 | 28 | 83              | 29              | 30 | 50 | 20 | 24 | 134 | 50  | 73 | 61 |
| 215   | 216  | 213  | 210 <sup>h</sup> | 246  | 284   | 227  | 219  | 208  | 254  | 282  | 394  | 16.               | 43  | 27                  | 169             | 30                | 31                  | 43    | 22   | 18   | 112  | 55   | 65   | 57  | 17.  | 41                     | 25  | 124             | 25              | 28    | 41   | 16   | 20   | 73  | 50   | 66  | 53  | 18. | 34  | 29   | 110             | 23              | 26  | 39   | 20   | 20  | 146  | 47  | 57  | 53  | 19. | 31 | 28 | 89              | 19              | 30 | 40 | 31 | 25 | 137 | 41  | 53  | 65  | 20. | 28 | 29 | 95              | 23              | 31 | 39 | 42 | 20 | 116 | 40  | 70 | 49 |
| 216   | 214  | 230  | 228 <sup>h</sup> | 246  | 273   | 227  | 220  | 208  | 254  | 306  | 347  | 21.               | 29  | 25                  | 102             | 20                | 30                  | 39    | 31   | 26   | 96   | 43   | 62   | 54  | 22.  | 31                     | 32  | 92              | 18              | 28    | 38   | 25   | 25   | 82  | 42   | 60  | 53  | 23. | 33  | 30   | 74              | 23              | 37  | 35   | 24   | 28  | 68   | 193 | 56  | 62  | 24. | 31 | 24 | 60              | 24              | 38 | 39 | 25 | 26 | 60  | 167 | 55  | 54  | 25. | 28 | 18 | 52              | 20              | 38 | 37 | 22 | 28 | 64  | 121 | 55 | 64 |
| 219   | 215  | 220  | 228 <sup>h</sup> | 235  | 265   | 222  | 217  | 214  | 248  | 287  | 358  | 26.               | 31  | 26                  | 33 <sup>h</sup> | 64                | 44                  | 35    | 24   | 30   | 170  | 96   | 51   | 57  | 27.  | 30                     | 30  | 31 <sup>h</sup> | 32              | 50    | 34   | 19   | 29   | 155 | 71   | 83  | 54  | 28. | 28  | 28   | 29 <sup>h</sup> | 67              | 49  | 29   | 22   | 25  | 126  | 72  | 74  | 70  | 29. | 29 | 38 | 32 <sup>h</sup> | 47              | 30 | 22 | 22 | 22 | 108 | 79  | 66  | 63  | 30. | 30 | 52 | 29 <sup>h</sup> | 43              | 32 | 20 | 29 | 89 | 61  | 65  | 63 |    |
| 217   | 221  | 272  | 228 <sup>h</sup> | 238  | 253   | 219  | 212  | 398  | 264  | 287  | 276  | 31.               | 38  | 26 <sup>h</sup>     | 41              | 33                | 87                  | 60    | 66   | Σ    | 919  | 893  | 1748 | 796 | 1283 | 1358                   | 780 | 712             | 2643            | 1969  | 2166 | 3515 |      |     |      |     |     |     |   |      |                 |                 |     |      |      |     |      |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |    |    |
| 6573  | 6739 | 8292 | 6379             | 7768 | 7813  | 6976 | 6382 | 9416 | 8702 | 8615 | 9462 | Wi: n 181; 43 564 | So: n 184; 49 553   | Jahr: n 365; 93 117 | Wi: n 181; 6997 | So: n 184; 10 785 | Jahr: n 365; 17 782 |       |      |      |      |      |      |     |      |                        |     |                 |                 |       |      |      |      |     |      |     |     |     |   |      |                 |                 |     |      |      |     |      |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |    |    |
| <b>Hauptzahlen (em)</b>   |      |      |                  |      |       |      |      |      |      |      |      |                   | <b>Hauptzahlen (cm)</b>   |                     |                 |                   |                     |       |      |      |      |      |      |     |      |                        |     |                 |                 |       |      |      |      |     |      |     |     |     |   |      |                 |                 |     |      |      |     |      |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |    |    |
| Nov   | Dez  | Jan  | Febr             | März | Apr   | Mai  | Juni | Juli | Aug  | Sept | Okt  | Wi                | So  | Jahr                | Nov             | Dez               | Jan                 | Febr  | März | Apr  | Mai  | Juni | Juli | Aug | Sept | Okt                    | Wi  | So              | Jahr            |       |      |      |      |     |      |     |     |     |   |      |                 |                 |     |      |      |     |      |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |    |    |
| <b>1954</b>   |      |      |                  |      |       |      |      |      |      |      |      |                   | <b>1954</b>   |                     |                 |                   |                     |       |      |      |      |      |      |     |      |                        |     |                 |                 |       |      |      |      |     |      |     |     |     |   |      |                 |                 |     |      |      |     |      |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |    |    |
| 7.,   | 19.  | 8.   | 8.               | oft  | 29.,  | 20.  | 28.  | 4.   | 18., | 3.,  | 16.  |                   |   |                     | oft             | 25.               | 10.                 | 22.   | 18.  | 28.  | 17.  | 9.   | 1.   | 11. | 26.  | 20.                    |     |                 |                 |       |      |      |      |     |      |     |     |     |   |      |                 |                 |     |      |      |     |      |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |    |    |
| 26.   |      |      |                  | 30.  | 30.   | 208  | 206  | 205  | 239  | 256  | 254  | 204               | 205   | 204                 | am              | 28                | 18                  | 20    | 18   | 26   | 29   | 16   | 17   | 20  | 37   | 51                     | 49  | 18              | 16              | 16    |      |      |      |     |      |     |     |     |   |      |                 |                 |     |      |      |     |      |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |    |    |
| 214   | 204  | 213  | 210              | 235  | 236   | 225  | 213  | 304  | 281  | 287  | 305  | 241               | 269   | 255                 | NW              | 31                | 29                  | 56    | 28   | 41   | 45   | 25   | 24   | 85  | 64   | 72                     | 81  | 39              | 59              | 49    |      |      |      |     |      |     |     |     |   |      |                 |                 |     |      |      |     |      |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |    |    |
| 219   | 217  | 267  | 228              | 251  | 260   | 225  | 213  | 304  | 281  | 287  | 305  | 241               | 269   | 255                 | MW              | 43                | 52                  | 182   | 67   | 144  | 76   | 42   | 30   | 199 | 205  | 127                    | 181 | 182             | 205             | 205   |      |      |      |     |      |     |     |     |   |      |                 |                 |     |      |      |     |      |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |    |    |
| 275   | 287  | 382  | 246              | 284  | 317   | 271  | 253  | 490  | 437  | 366  | 458  | 382               | 490   | 490                 | am              | 16.               | 30.                 | 16.   | 28.  | 1.   | 5.   | 20.  | 26.  | 13. | 23.  | 8.                     | 6.  |                 |                 |       |      |      |      |     |      |     |     |     |   |      |                 |                 |     |      |      |     |      |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |    |    |
| 9.  | 17.  | 16.  | 28.              | 27.  | 3.    | 21.  | 5.   | 13.  | 23.  | 13.  | 7.   |                   |   |                     |                 |                   |                     |       |      |      |      |      |      |     |      |                        |     |                 |                 |       |      |      |      |     |      |     |     |     |   |      |                 |                 |     |      |      |     |      |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |    |    |
| <b>19—/19—*)</b>  |      |      |                  |      |       |      |      |      |      |      |      |                   | <b>1941/1950</b>  |                     |                 |                   |                     |       |      |      |      |      |      |     |      |                        |     |                 |                 |       |      |      |      |     |      |     |     |     |   |      |                 |                 |     |      |      |     |      |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |    |    |
|   |      |      |                  |      |       |      |      |      |      |      |      |                   | NW  | 8                   | 18              | 20                | 24                  | 32    | 28   | 12   | 10   | 10   | 8    | 8   | 8    | 8                      | 8   | 8               |                 |       |      |      |      |     |      |     |     |     |   |      |                 |                 |     |      |      |     |      |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |    |    |
|   |      |      |                  |      |       |      |      |      |      |      |      |                   | MNW   | 30                  | 32              | 36                | 41                  | 40    | 37   | 30   | 28   | 27   | 25   | 23  | 24   | 25                     | 22  | 21              |                 |       |      |      |      |     |      |     |     |     |   |      |                 |                 |     |      |      |     |      |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |    |    |
|   |      |      |                  |      |       |      |      |      |      |      |      |                   | MW  | 47                  | 54              | 58                | 66                  | 61    | 53   | 37   | 36   | 37   | 34   | 29  | 34   | 57                     | 35  | 45              |                 |       |      |      |      |     |      |     |     |     |   |      |                 |                 |     |      |      |     |      |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |    |    |
|   |      |      |                  |      |       |      |      |      |      |      |      |                   | MHW   | 98                  | 105             | 118               | 119                 | 127   | 91   | 62   | 57   | 76   | 59   | 42  | 55   | 191                    | 120 | 191             |                 |       |      |      |      |     |      |     |     |     |   |      |                 |                 |     |      |      |     |      |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |    |    |
|   |      |      |                  |      |       |      |      |      |      |      |      |                   | HW  | 210                 | 200             | 200               | 218                 | 212   | 192  | 164  | 120  | 194  | 170  | 108 | 176  | 218                    | 194 | 218             |                 |       |      |      |      |     |      |     |     |     |   |      |                 |                 |     |      |      |     |      |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |    |    |
|   |      |      |                  |      |       |      |      |      |      |      |      |                   | HW  |                     |                 |                   |                     |       |      |      |      |      |      |     |      |                        |     |                 |                 |       |      |      |      |     |      |     |     |     |   |      |                 |                 |     |      |      |     |      |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |    |    |
| <b>Äußerste Wasserstände</b>  |      |      |                  |      |       |      |      |      |      |      |      |                   | <b>Äußerste Wasserstände</b>  |                     |                 |                   |                     |       |      |      |      |      |      |     |      |                        |     |                 |                 |       |      |      |      |     |      |     |     |     |   |      |                 |                 |     |      |      |     |      |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |    |    |
| NW  |      |      |                  |      |       |      |      |      |      |      |      |                   | NW  |                     |                 |                   |                     |       |      |      |      |      |      |     |      |                        |     |                 |                 |       |      |      |      |     |      |     |     |     |   |      |                 |                 |     |      |      |     |      |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |    |    |
| 1954  |      |      |                  |      |       |      |      |      |      |      |      |                   | 1954  |                     |                 |                   |                     |       |      |      |      |      |      |     |      |                        |     |                 |                 |       |      |      |      |     |      |     |     |     |   |      |                 |                 |     |      |      |     |      |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |    |    |
| 19—/19—*)   |      |      |                  |      |       |      |      |      |      |      |      |                   | 1941/1950   |                     |                 |                   |                     |       |      |      |      |      |      |     |      |                        |     |                 |                 |       |      |      |      |     |      |     |     |     |   |      |                 |                 |     |      |      |     |      |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |    |    |
| 204 cm<br>19. Dezember 1953   |      |      |                  |      |       |      |      |      |      |      |      |                   | 16 em<br>17. Mai  |                     |                 |                   |                     |       |      |      |      |      |      |     |      |                        |     |                 |                 |       |      |      |      |     |      |     |     |     |   |      |                 |                 |     |      |      |     |      |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |    |    |
| ungeh } 490 cm<br>überh } 13. Juli  |      |      |                  |      |       |      |      |      |      |      |      |                   | ungeh } 205 cm<br>überh } 23. August  |                     |                 |                   |                     |       |      |      |      |      |      |     |      |                        |     |                 |                 |       |      |      |      |     |      |     |     |     |   |      |                 |                 |     |      |      |     |      |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |    |    |
| ungeh<br>überh  |      |      |                  |      |       |      |      |      |      |      |      |                   | ungeh } 218 em<br>überh } Februar 1946  |                     |                 |                   |                     |       |      |      |      |      |      |     |      |                        |     |                 |                 |       |      |      |      |     |      |     |     |     |   |      |                 |                 |     |      |      |     |      |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |    |    |
| NNW   |      |      |                  |      |       |      |      |      |      |      |      |                   | NNW   |                     |                 |                   |                     |       |      |      |      |      |      |     |      |                        |     |                 |                 |       |      |      |      |     |      |     |     |     |   |      |                 |                 |     |      |      |     |      |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |    |    |
| seit 1953   |      |      |                  |      |       |      |      |      |      |      |      |                   | seit 1912*)   |                     |                 |                   |                     |       |      |      |      |      |      |     |      |                        |     |                 |                 |       |      |      |      |     |      |     |     |     |   |      |                 |                 |     |      |      |     |      |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |    |    |
| 204 cm<br>19. Dezember 1953   |      |      |                  |      |       |      |      |      |      |      |      |                   | 0 cm<br>5. Juni bis 3. Juli 1915  |                     |                 |                   |                     |       |      |      |      |      |      |     |      |                        |     |                 |                 |       |      |      |      |     |      |     |     |     |   |      |                 |                 |     |      |      |     |      |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |    |    |
| ungeh } 490 cm<br>überh } 13. Juli 1954   |      |      |                  |      |       |      |      |      |      |      |      |                   | ungeh } 240 cm<br>überh } 16. Januar 1918   |                     |                 |                   |                     |       |      |      |      |      |      |     |      |                        |     |                 |                 |       |      |      |      |     |      |     |     |     |   |      |                 |                 |     |      |      |     |      |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |    |    |
| <b>Eisverhältnisse 1954:</b> Randeis an 19 Tagen, Randeis und Eisbewegung an 5 Tagen.   |      |      |                  |      |       |      |      |      |      |      |      |                   | <b>Eisverhältnisse 1954:</b> Randeis an 14 Tagen.   |                     |                 |                   |                     |       |      |      |      |      |      |     |      |                        |     |                 |                 |       |      |      |      |     |      |     |     |     |   |      |                 |                 |     |      |      |     |      |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |    |    |
| *) Vergleichsreihe und Grenzwerte können noch nicht gebracht werden, da ab 1. August 1952 neuer Pegel.<br>Schrägdruck: 12-Uhr-Ablesungen (Schreibpegel versagte). |      |      |                  |      |       |      |      |      |      |      |      |                   | *) Sohle bei -62 cm am Pegel, vor dem 1. Februar 1919 Pegel einmal wöchentlich abgelesen. |                     |                 |                   |                     |       |      |      |      |      |      |     |      |                        |     |                 |                 |       |      |      |      |     |      |     |     |     |   |      |                 |                 |     |      |      |     |      |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |    |    |
| LIG Hannover  |      |      |                  |      |       |      |      |      |      |      |      |                   | LIG Hannover  |                     |                 |                   |                     |       |      |      |      |      |      |     |      |                        |     |                 |                 |       |      |      |      |     |      |     |     |     |   |      |                 |                 |     |      |      |     |      |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |     |     |     |    |    |                 |                 |    |    |    |    |     |     |    |    |

| Hunte   |                   |      |                  |                   |      |       |                         |      |      |             |      | Pegel: Goldenstedt   |     |      |           |    |      |           |  |  |  |  |  | Dauerzahlen der Wasserstände |  |  |  |
|---|-------------------|------|------------------|-------------------|------|-------|-------------------------|------|------|-------------|------|--|-----|------|-----------|----|------|-----------|--|--|--|--|--|------------------------------|--|--|--|
|   |                   |      |                  |                   |      |       |                         |      |      |             |      | 91,4 km oberhalb der Mündung<br>PN = NN + 21,93 m. FN = 1263 km <sup>2</sup><br>Tagesmittel [Q s. S. 84] |     |      |           |    |      |           |  |  |  |  |  |                              |  |  |  |
|   |                   |      |                  |                   |      |       |                         |      |      |             |      |  |     |      |           |    |      |           |  |  |  |  |  |                              |  |  |  |
| Tag   | Nov               | Dez  | Jan              | Febr              | März | April | Mai                     | Juni | Juli | Aug         | Sept | Okt  | cm  | 1954 | 1941/1950 | cm | 1954 | 1941/1950 |  |  |  |  |  |                              |  |  |  |
| <b>Tageswerte (cm)</b>  |                   |      |                  |                   |      |       |                         |      |      |             |      |  |     |      |           |    |      |           |  |  |  |  |  |                              |  |  |  |
| 1.  | 79                | 97   | 136              | 111 <sup>^</sup>  | 141  | 207   | 105                     | 84   | 70   | 177         | 318  | 280  |     |      |           |    |      |           |  |  |  |  |  |                              |  |  |  |
| 2.  | 101               | 96   | 130              | 106 <sup>^</sup>  | 143  | 224   | 110                     | 91   | 70   | 160         | 312  | 295  |     |      |           |    |      |           |  |  |  |  |  |                              |  |  |  |
| 3.  | 87                | 92   | 122              | 104 <sup>^</sup>  | 140  | 229   | 101                     | 90   | 70   | 157         | 305  | 302  |     |      |           |    |      |           |  |  |  |  |  |                              |  |  |  |
| 4.  | 87                | 91   | 128              | 104 <sup>^</sup>  | 196  | 232   | 102                     | 79   | 67   | 181         | 295  | 295  |     |      |           |    |      |           |  |  |  |  |  |                              |  |  |  |
| 5.  | 80                | 93   | 129              | 103 <sup>^</sup>  | 224  | 243   | 109                     | 78   | 70   | 174         | 287  | 282  |     |      |           |    |      |           |  |  |  |  |  |                              |  |  |  |
| 6.  | 84                | 89   | 120              | 102 <sup>^</sup>  | 234  | 251   | 107                     | 79   | 84   | 172         | 278  | 298  |     |      |           |    |      |           |  |  |  |  |  |                              |  |  |  |
| 7.  | 84                | 90   | 118 <sup>^</sup> | 101 <sup>^</sup>  | 247  | 252   | 102                     | 79   | 94   | 174         | 267  | 332  |     |      |           |    |      |           |  |  |  |  |  |                              |  |  |  |
| 8.  | 78                | 90   | 116 <sup>^</sup> | 102 <sup>^</sup>  | 267  | 237   | 94                      | 81   | 90   | 174         | 258  | 336  |     |      |           |    |      |           |  |  |  |  |  |                              |  |  |  |
| 9.  | 87                | 91   | 113              | 104 <sup>^</sup>  | 272  | 224   | 90                      | 73   | 94   | 178         | 249  | 334  |     |      |           |    |      |           |  |  |  |  |  |                              |  |  |  |
| 10.   | 79                | 93   | 119              | 105 <sup>^</sup>  | 271  | 214   | 93                      | 75   | 84   | 178         | 243  | 327  |     |      |           |    |      |           |  |  |  |  |  |                              |  |  |  |
| 11.   | 82                | 103  | 139              | 109 <sup>^</sup>  | 261  | 200   | 86                      | 75   | 85   | 196         | 236  | 319  |     |      |           |    |      |           |  |  |  |  |  |                              |  |  |  |
| 12.   | 91                | 103  | 187              | 114 <sup>^</sup>  | 248  | 191   | 81                      | 74   | 121  | 218         | 232  | 304  |     |      |           |    |      |           |  |  |  |  |  |                              |  |  |  |
| 13.   | 86                | 97   | 239              | 120 <sup>^</sup>  | 248  | 178   | 85                      | 72   | 149  | 244         | 224  | 285  |     |      |           |    |      |           |  |  |  |  |  |                              |  |  |  |
| 14.   | 87                | 102  | 253              | 121 <sup>^</sup>  | 246  | 162   | 79                      | 80   | 151  | 255         | 216  | 262  |     |      |           |    |      |           |  |  |  |  |  |                              |  |  |  |
| 15.   | 94                | 99   | 258              | 122 <sup>^</sup>  | 242  | 170   | 74                      | 75   | 137  | 268         | 210  | 230  |     |      |           |    |      |           |  |  |  |  |  |                              |  |  |  |
| 16.   | 103               | 100  | 258              | 118 <sup>^</sup>  | 238  | 175   | 83                      | 73   | 148  | 292         | 213  | 207  |     |      |           |    |      |           |  |  |  |  |  |                              |  |  |  |
| 17.   | 100               | 94   | 250              | 104 <sup>^</sup>  | 233  | 171   | 84                      | 76   | 143  | 324         | 225  | 233  |     |      |           |    |      |           |  |  |  |  |  |                              |  |  |  |
| 18.   | 101               | 96   | 222              | 100               | 227  | 167   | 81                      | 72   | 143  | 330         | 225  | 243  |     |      |           |    |      |           |  |  |  |  |  |                              |  |  |  |
| 19.   | 103               | 103  | 206              | 100               | 217  | 166   | 82                      | 69   | 160  | 329         | 220  | 241  |     |      |           |    |      |           |  |  |  |  |  |                              |  |  |  |
| 20.   | 97                | 95   | 194              | 98                | 216  | 160   | 93                      | 73   | 161  | 324         | 211  | 233  |     |      |           |    |      |           |  |  |  |  |  |                              |  |  |  |
| 21.   | 89                | 113  | 203              | 95                | 215  | 151   | 121                     | 62   | 148  | 317         | 212  | 231  |     |      |           |    |      |           |  |  |  |  |  |                              |  |  |  |
| 22.   | 93                | 115  | 200              | 96 <sup>^</sup>   | 207  | 152   | 112                     | 69   | 141  | 313         | 216  | 228  |     |      |           |    |      |           |  |  |  |  |  |                              |  |  |  |
| 23.   | 99                | 115  | 180              | 93 <sup>^</sup>   | 199  | 143   | 102                     | 71   | 129  | 322         | 223  | 245  |     |      |           |    |      |           |  |  |  |  |  |                              |  |  |  |
| 24.   | 89                | 117  | 160              | 94                | 196  | 123   | 95                      | 74   | 128  | 333         | 221  | 264  |     |      |           |    |      |           |  |  |  |  |  |                              |  |  |  |
| 25.   | 88                | 118  | 148 <sup>^</sup> | 93                | 167  | 112   | 91                      | 73   | 126  | 336         | 215  | 269  |     |      |           |    |      |           |  |  |  |  |  |                              |  |  |  |
| 26.   | 89                | 125  | 141 <sup>^</sup> | 121               | 176  | 116   | 86                      | 73   | 136  | 335         | 222  | 231  |     |      |           |    |      |           |  |  |  |  |  |                              |  |  |  |
| 27.   | 88                | 138  | 141 <sup>^</sup> | 136               | 205  | 112   | 86                      | 75   | 164  | 333         | 221  | 208  |     |      |           |    |      |           |  |  |  |  |  |                              |  |  |  |
| 28.   | 85                | 160  | 154 <sup>^</sup> | 139               | 217  | 100   | 83                      | 76   | 166  | 329         | 226  | 242  |     |      |           |    |      |           |  |  |  |  |  |                              |  |  |  |
| 29.   | 100               | 164  | 147 <sup>^</sup> |                   | 208  | 104   | 76                      | 75   | 164  | 326         | 242  | 271  |     |      |           |    |      |           |  |  |  |  |  |                              |  |  |  |
| 30.   | 105               | 160  | 134 <sup>^</sup> |                   | 197  | 104   | 76                      | 71   | 177  | 324         | 262  | 290  |     |      |           |    |      |           |  |  |  |  |  |                              |  |  |  |
| 31.   |                   | 143  | 119 <sup>^</sup> |                   | 200  |       | 84                      |      | 184  | 322         |      | 295  |     |      |           |    |      |           |  |  |  |  |  |                              |  |  |  |
| Σ   | 2715              | 3382 | 5164             | 3015              | 6698 | 5270  | 2853                    | 2267 | 3854 | 8095        | 7284 | 8412   |     |      |           |    |      |           |  |  |  |  |  |                              |  |  |  |
|   | Wi: n 181; 26 244 |      |                  | So: n 184; 32 765 |      |       | Jahr: n 365; 59 009     |      |      |             |      |  |     |      |           |    |      |           |  |  |  |  |  |                              |  |  |  |
| <b>Hauptzahlen (cm)</b>   |                   |      |                  |                   |      |       |                         |      |      |             |      |  |     |      |           |    |      |           |  |  |  |  |  |                              |  |  |  |
|   | Nov               | Dez  | Jan              | Febr              | März | Apr   | Mai                     | Juni | Juli | Aug         | Sept | Okt  | Wi  | So   | Jahr      |    |      |           |  |  |  |  |  |                              |  |  |  |
| <b>1954</b>   |                   |      |                  |                   |      |       |                         |      |      |             |      |  |     |      |           |    |      |           |  |  |  |  |  |                              |  |  |  |
| am  | 8.                | 6.   | 9.               | 23.,<br>25.       | 3.   | 28.   | 15.                     | 21.  | 4.   | 3.          | 15.  | 16.  |     |      |           |    |      |           |  |  |  |  |  |                              |  |  |  |
| NW  | 78                | 89   | 113              | 93                | 140  | 100   | 74                      | 62   | 67   | 157         | 210  | 207  | 78  | 62   | 62        |    |      |           |  |  |  |  |  |                              |  |  |  |
| MW  | 90                | 109  | 167              | 108               | 216  | 176   | 92                      | 76   | 124  | 261         | 243  | 271  | 145 | 178  | 162       |    |      |           |  |  |  |  |  |                              |  |  |  |
| HW  | 127               | 172  | 261              | 144               | 273  | 254   | 132                     | 108  | 188  | 336         | 321  | 336  | 273 | 336  | 336       |    |      |           |  |  |  |  |  |                              |  |  |  |
| am  | 2.                | 29.  | 15.              | 27.               | 9.   | 6.    | 21.                     | 3.   | 30.  | 25.,<br>26. | 1.   | 8.,<br>9.  |     |      |           |    |      |           |  |  |  |  |  |                              |  |  |  |
| <b>1941/1950*)</b>  |                   |      |                  |                   |      |       |                         |      |      |             |      |  |     |      |           |    |      |           |  |  |  |  |  |                              |  |  |  |
| NW  | 44                | 100  | 116              | 105               | 76   | 105   | 61                      | 55   | 42   | 40          | 41   | 42   | 44  | 40   | 40        |    |      |           |  |  |  |  |  |                              |  |  |  |
| MNW   | 110               | 169  | 188              | 188               | 161  | 131   | 88                      | 67   | 59   | 62          | 69   | 68   | 88  | 48   | 46        |    |      |           |  |  |  |  |  |                              |  |  |  |
| MW  | 183               | 233  | 255              | 259               | 232  | 193   | 126                     | 99   | 108  | 107         | 94   | 117  | 226 | 109  | 167       |    |      |           |  |  |  |  |  |                              |  |  |  |
| MHW   | 248               | 288  | 313              | 300               | 307  | 257   | 197                     | 151  | 175  | 163         | 128  | 170  | 339 | 258  | 339       |    |      |           |  |  |  |  |  |                              |  |  |  |
| HW  | 339               | 348  | 358              | 353               | 342  | 330   | 305                     | 255  | 321  | 243         | 161  | 330  | 358 | 330  | 358       |    |      |           |  |  |  |  |  |                              |  |  |  |
| HW <sub>1</sub>   |                   |      |                  |                   |      |       |                         |      |      |             |      |  |     |      |           |    |      |           |  |  |  |  |  |                              |  |  |  |
| HW <sub>2</sub>   |                   |      |                  |                   |      |       |                         |      |      |             |      |  |     |      |           |    |      |           |  |  |  |  |  |                              |  |  |  |
| <b>Äußerste Wasserstände</b>  |                   |      |                  |                   |      |       |                         |      |      |             |      |  |     |      |           |    |      |           |  |  |  |  |  |                              |  |  |  |
|   | NW                |      |                  |                   |      |       | HW                      |      |      |             |      |  |     |      |           |    |      |           |  |  |  |  |  |                              |  |  |  |
| 1954  | 62 cm             |      |                  |                   |      |       | ungeh } 336 cm          |      |      |             |      |  |     |      |           |    |      |           |  |  |  |  |  |                              |  |  |  |
|   | 21. Juni          |      |                  |                   |      |       | überh } 25. Aug. 8. Okt |      |      |             |      |  |     |      |           |    |      |           |  |  |  |  |  |                              |  |  |  |
| 1941/1950*)   | 40 cm             |      |                  |                   |      |       | ungeh } 358 cm          |      |      |             |      |  |     |      |           |    |      |           |  |  |  |  |  |                              |  |  |  |
|   | 6. August 1945    |      |                  |                   |      |       | überh } 14. Januar 1948 |      |      |             |      |  |     |      |           |    |      |           |  |  |  |  |  |                              |  |  |  |
|   | 25. August 1949   |      |                  |                   |      |       |                         |      |      |             |      |  |     |      |           |    |      |           |  |  |  |  |  |                              |  |  |  |
|   | NNW               |      |                  |                   |      |       | HHW                     |      |      |             |      |  |     |      |           |    |      |           |  |  |  |  |  |                              |  |  |  |
| seit 1929   | 40 cm             |      |                  |                   |      |       | ungeh } 358 cm          |      |      |             |      |  |     |      |           |    |      |           |  |  |  |  |  |                              |  |  |  |
|   | 6. August 1945    |      |                  |                   |      |       | überh } 14. Januar 1948 |      |      |             |      |  |     |      |           |    |      |           |  |  |  |  |  |                              |  |  |  |
|   | 25. August 1949   |      |                  |                   |      |       |                         |      |      |             |      |  |     |      |           |    |      |           |  |  |  |  |  |                              |  |  |  |
| <b>Eisverhältnisse 1954:</b> Randeis an 16 Tagen, Randeis und Eisbewegung an 8 Tagen, Eisbewegung an 1 Tag. |                   |      |                  |                   |      |       |                         |      |      |             |      |  |     |      |           |    |      |           |  |  |  |  |  |                              |  |  |  |
| *) ohne 1946/47.  |                   |      |                  |                   |      |       |                         |      |      |             |      |  |     |      |           |    |      |           |  |  |  |  |  |                              |  |  |  |
| LFG Hannover  |                   |      |                  |                   |      |       |                         |      |      |             |      |  |     |      |           |    |      |           |  |  |  |  |  |                              |  |  |  |

Weser

Pegel: Bremen, Gr. Weserbrücke

km 0,0 der Unterweser
PN = NN -5,00 n. S. FN: 38 217 km²

Table with columns for months (November to April) and days (1 to 31), containing water level data (Tnw, Thw) in cm and time (Zeit) in minutes. Includes a 'Tageswerte (cm)' section and summary statistics at the bottom.

Eisverhältnisse 1954: keine Angaben.

Hauptzahlen s. S. 54

Weser

Pegel: Bremen, Gr.Weserbrücke

km 0,0 der Unterweser
PN = NN -5,00 n. S. FN: 38 217 km²

Table with columns for months (Mai, Juni, Juli, August, September, Oktober) and days (Tag). Each day entry includes two water level readings (Tnw, Thw) in cm. The table is organized into a grid with 31 rows and 14 columns.

Tageswerte (cm)

Eisverhältnisse 1954: keine Angaben.

Hauptzahlen s. S. 54



Weser

Pegel: Vegesack

km 17,5 der Unterweser
PN = NN -5,00 n. S. FN = 41399 km²

Table with columns for months (November to April) and days (Tag), containing daily water level measurements in cm. Includes a summary row at the bottom with totals for each month.

Eisverhältnisse 1954: An 25 Tagen Eisbewegung.

Hauptzahlen s. S. 54

Weser

Pegel: Vegesack

km 17,5 der Unterweser
PN = NN -5,00 n. S. FN = 41 399 km²

Table with columns for months (Mai to Oktober) and days (1 to 31), containing water level data (Tnw, Thw) in cm. Includes a summary row at the bottom with (n)Σ values.

Eisverhältnisse 1954: s. S. 44

Hauptzahlen s. S. 54

Weser

Pegel: Farge

km 26,3 der Unterweser  
PN = NN -5,00 n. S. FN = 41 465 km<sup>2</sup>

| Tag                    | November             |                      | Dezember             |                      | Januar               |                      | Februar              |                      | März                 |                      | April                |                      | Tag |
|------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-----|
|                        | Tnw                  | Thw                  | Tnw                  | Thw                  | Tnw                  | Thw                  | Tnw                  | Thw                  | Tnw                  | Thw                  | Tnw                  | Thw                  |     |
|                        | Zeit cm              | Zeit cm              | Zeit cm              | Zeit cm              | Zeit cm              | Zeit cm              | Zeit cm              | Zeit cm              | Zeit cm              | Zeit cm              | Zeit cm              | Zeit cm              |     |
| <b>Tageswerte (cm)</b> |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |     |
| I.                     | 4 <sup>46</sup> 371  | 10 <sup>11</sup> 601 | 4 <sup>40</sup> 500  | 10 <sup>09</sup> 730 | 5 <sup>54</sup> 368  | 11 <sup>37</sup> 624 | 7 <sup>18</sup> 313  | 0 <sup>38</sup> 585  | 5 <sup>00</sup> 382  | 11 <sup>93</sup> 660 | 7 <sup>51</sup> 362  | 0 <sup>33</sup> 703  | I.  |
| 1.                     | 17 <sup>49</sup> 316 | 23 <sup>19</sup> 542 | 17 <sup>46</sup> 402 | 23 <sup>19</sup> 645 | 18 <sup>25</sup> 357 | —                    | 19 <sup>39</sup> 319 | 13 <sup>17</sup> 573 | 18 <sup>06</sup> 379 | 23 <sup>59</sup> 684 | 20 <sup>02</sup> 371 | 13 <sup>22</sup> 661 | 1.  |
| 2.                     | 5 <sup>39</sup> 325  | —                    | 6 <sup>99</sup> 379  | 11 <sup>59</sup> 659 | 7 <sup>22</sup> 362  | 0 <sup>24</sup> 634  | 8 <sup>23</sup> 315  | 1 <sup>44</sup> 586  | 6 <sup>52</sup> 386  | —                    | 8 <sup>58</sup> 372  | 1 <sup>24</sup> 728  | 2.  |
| 3.                     | 18 <sup>54</sup> 366 | 12 <sup>39</sup> 597 | 18 <sup>38</sup> 387 | —                    | 19 <sup>32</sup> 371 | 12 <sup>54</sup> 648 | 20 <sup>37</sup> 340 | 14 <sup>22</sup> 582 | 19 <sup>33</sup> 378 | 12 <sup>32</sup> 662 | 21 <sup>13</sup> 351 | 14 <sup>11</sup> 685 | 3.  |
| 4.                     | 7 <sup>06</sup> 349  | 0 <sup>24</sup> 613  | 7 <sup>99</sup> 384  | 0 <sup>18</sup> 679  | 7 <sup>22</sup> 478  | 1 <sup>53</sup> 689  | 9 <sup>27</sup> 320  | 2 <sup>41</sup> 606  | 8 <sup>18</sup> 350  | 1 <sup>01</sup> 682  | 9 <sup>35</sup> 360  | 2 <sup>34</sup> 701  | 4.  |
| 5.                     | 19 <sup>53</sup> 351 | 12 <sup>52</sup> 655 | 19 <sup>35</sup> 360 | 12 <sup>39</sup> 657 | 20 <sup>37</sup> 439 | 13 <sup>39</sup> 719 | 21 <sup>56</sup> 319 | 15 <sup>19</sup> 605 | 20 <sup>23</sup> 350 | 13 <sup>36</sup> 643 | 22 <sup>25</sup> 357 | 14 <sup>55</sup> 709 | 5.  |
| 6.                     | 8 <sup>97</sup> 344  | 1 <sup>29</sup> 648  | 7 <sup>55</sup> 375  | 11 <sup>11</sup> 664 | 9 <sup>23</sup> 418  | 2 <sup>17</sup> 721  | 10 <sup>28</sup> 310 | 3 <sup>49</sup> 628  | 9 <sup>18</sup> 325  | 1 <sup>53</sup> 656  | 10 <sup>29</sup> 356 | 3 <sup>15</sup> 724  | 6.  |
| 7.                     | 20 <sup>39</sup> 327 | 13 <sup>27</sup> 638 | 20 <sup>39</sup> 372 | 13 <sup>29</sup> 680 | 21 <sup>04</sup> 355 | 14 <sup>29</sup> 620 | 22 <sup>49</sup> 307 | 16 <sup>16</sup> 619 | 21 <sup>22</sup> 375 | 14 <sup>41</sup> 686 | 22 <sup>45</sup> 389 | 15 <sup>58</sup> 721 | 7.  |
| 8.                     | 8 <sup>51</sup> 382  | 2 <sup>17</sup> 669  | 8 <sup>55</sup> 370  | 1 <sup>59</sup> 693  | 3 <sup>12</sup> 352  | 2 <sup>42</sup> 624  | 11 <sup>13</sup> 301 | 4 <sup>22</sup> 633  | 10 <sup>91</sup> 369 | 2 <sup>47</sup> 715  | 11 <sup>21</sup> 384 | 3 <sup>58</sup> 771  | 8.  |
| 9.                     | 21 <sup>21</sup> 358 | 14 <sup>95</sup> 706 | 21 <sup>11</sup> 354 | 14 <sup>15</sup> 677 | 22 <sup>10</sup> 321 | 15 <sup>33</sup> 617 | 23 <sup>27</sup> 305 | 16 <sup>48</sup> 619 | 22 <sup>16</sup> 379 | 15 <sup>14</sup> 702 | 23 <sup>30</sup> 357 | 16 <sup>29</sup> 721 | 9.  |
| 10.                    | 0 <sup>21</sup> 350  | 2 <sup>32</sup> 662  | 9 <sup>49</sup> 339  | 2 <sup>37</sup> 663  | 10 <sup>45</sup> 325 | 3 <sup>44</sup> 654  | 11 <sup>54</sup> 307 | 5 <sup>99</sup> 640  | 10 <sup>55</sup> 380 | 3 <sup>39</sup> 743  | 12 <sup>90</sup> 365 | 4 <sup>47</sup> 734  | 10. |
| 11.                    | 21 <sup>55</sup> 364 | 14 <sup>55</sup> 690 | 21 <sup>51</sup> 333 | 15 <sup>95</sup> 643 | 22 <sup>54</sup> 349 | 16 <sup>15</sup> 666 | —                    | 17 <sup>27</sup> 618 | 23 <sup>18</sup> 346 | 16 <sup>91</sup> 707 | —                    | 17 <sup>98</sup> 718 | 11. |
| 12.                    | 10 <sup>97</sup> 349 | 3 <sup>97</sup> 684  | 10 <sup>21</sup> 326 | 3 <sup>18</sup> 651  | 11 <sup>33</sup> 343 | 4 <sup>15</sup> 714  | 0 <sup>19</sup> 295  | 5 <sup>41</sup> 645  | 11 <sup>59</sup> 320 | 4 <sup>21</sup> 704  | 0 <sup>19</sup> 351  | 5 <sup>32</sup> 711  | 12. |
| 13.                    | 22 <sup>98</sup> 351 | 15 <sup>28</sup> 654 | 22 <sup>32</sup> 330 | 15 <sup>59</sup> 636 | 23 <sup>35</sup> 350 | 16 <sup>47</sup> 680 | 12 <sup>45</sup> 291 | 13 <sup>11</sup> 614 | 23 <sup>52</sup> 316 | 16 <sup>53</sup> 645 | 12 <sup>41</sup> 356 | 17 <sup>55</sup> 697 | 13. |
| 14.                    | 10 <sup>25</sup> 387 | 3 <sup>35</sup> 684  | 10 <sup>55</sup> 330 | 4 <sup>91</sup> 650  | —                    | 5 <sup>99</sup> 684  | 0 <sup>47</sup> 299  | 6 <sup>18</sup> 659  | —                    | 5 <sup>11</sup> 711  | 1 <sup>94</sup> 340  | 6 <sup>18</sup> 689  | 14. |
| 15.                    | 23 <sup>99</sup> 381 | 15 <sup>49</sup> 728 | 23 <sup>97</sup> 350 | 16 <sup>27</sup> 664 | 17 <sup>19</sup> 330 | 17 <sup>35</sup> 663 | 13 <sup>01</sup> 336 | 13 <sup>39</sup> 661 | 12 <sup>27</sup> 344 | 17 <sup>31</sup> 708 | 13 <sup>22</sup> 349 | 18 <sup>37</sup> 695 | 15. |
| 16.                    | 11 <sup>19</sup> 372 | 4 <sup>15</sup> 702  | 11 <sup>36</sup> 348 | 4 <sup>31</sup> 683  | 0 <sup>15</sup> 336  | 5 <sup>45</sup> 711  | 1 <sup>15</sup> 339  | 6 <sup>55</sup> 707  | 0 <sup>35</sup> 354  | 5 <sup>45</sup> 737  | 1 <sup>45</sup> 341  | 7 <sup>04</sup> 671  | 16. |
| 17.                    | 23 <sup>20</sup> 360 | 16 <sup>33</sup> 667 | 23 <sup>46</sup> 355 | 16 <sup>59</sup> 671 | 17 <sup>29</sup> 377 | 18 <sup>29</sup> 710 | 13 <sup>55</sup> 350 | 16 <sup>29</sup> 676 | 13 <sup>91</sup> 363 | 18 <sup>93</sup> 695 | 13 <sup>54</sup> 349 | 19 <sup>12</sup> 672 | 17. |
| 18.                    | 11 <sup>42</sup> 373 | 4 <sup>44</sup> 706  | —                    | 5 <sup>98</sup> 696  | 0 <sup>49</sup> 394  | 6 <sup>14</sup> 768  | 2 <sup>96</sup> 340  | 7 <sup>35</sup> 684  | 1 <sup>13</sup> 343  | 6 <sup>35</sup> 704  | 2 <sup>33</sup> 325  | 7 <sup>54</sup> 629  | 18. |
| 19.                    | —                    | 17 <sup>99</sup> 704 | 12 <sup>17</sup> 350 | 17 <sup>42</sup> 674 | 13 <sup>51</sup> 364 | 19 <sup>07</sup> 705 | 14 <sup>45</sup> 326 | 19 <sup>59</sup> 589 | 13 <sup>41</sup> 353 | 18 <sup>53</sup> 693 | 14 <sup>23</sup> 346 | 20 <sup>94</sup> 658 | 19. |
| 20.                    | 0 <sup>09</sup> 372  | 5 <sup>11</sup> 687  | 0 <sup>25</sup> 357  | 5 <sup>54</sup> 689  | 1 <sup>51</sup> 366  | 7 <sup>14</sup> 734  | 2 <sup>34</sup> 293  | 8 <sup>30</sup> 592  | 1 <sup>53</sup> 341  | 7 <sup>18</sup> 686  | 3 <sup>15</sup> 327  | 8 <sup>54</sup> 614  | 20. |
| 21.                    | 12 <sup>29</sup> 361 | 17 <sup>85</sup> 671 | 13 <sup>93</sup> 349 | 18 <sup>30</sup> 660 | 14 <sup>13</sup> 368 | 19 <sup>39</sup> 696 | 14 <sup>57</sup> 313 | 20 <sup>45</sup> 589 | 14 <sup>99</sup> 350 | 19 <sup>31</sup> 675 | 15 <sup>99</sup> 351 | 21 <sup>19</sup> 664 | 21. |
| 22.                    | 0 <sup>17</sup> 380  | 5 <sup>59</sup> 688  | 1 <sup>97</sup> 346  | 6 <sup>37</sup> 667  | 2 <sup>22</sup> 366  | 7 <sup>57</sup> 733  | 3 <sup>19</sup> 322  | 9 <sup>19</sup> 599  | 2 <sup>32</sup> 335  | 8 <sup>95</sup> 657  | 4 <sup>12</sup> 350  | 10 <sup>12</sup> 654 | 22. |
| 23.                    | 12 <sup>59</sup> 392 | 18 <sup>09</sup> 683 | 13 <sup>48</sup> 332 | 19 <sup>19</sup> 624 | 15 <sup>98</sup> 375 | 20 <sup>19</sup> 679 | 15 <sup>40</sup> 334 | 21 <sup>38</sup> 598 | 14 <sup>45</sup> 350 | 20 <sup>15</sup> 652 | 16 <sup>35</sup> 388 | 22 <sup>35</sup> 686 | 23. |
| 24.                    | 1 <sup>02</sup> 402  | 6 <sup>49</sup> 714  | 1 <sup>52</sup> 323  | 7 <sup>27</sup> 644  | 3 <sup>19</sup> 355  | 8 <sup>27</sup> 684  | 4 <sup>27</sup> 310  | 10 <sup>37</sup> 587 | 3 <sup>21</sup> 330  | 9 <sup>08</sup> 611  | 5 <sup>45</sup> 364  | 11 <sup>35</sup> 659 | 24. |
| 25.                    | 14 <sup>00</sup> 415 | 10 <sup>99</sup> 662 | 14 <sup>32</sup> 320 | 19 <sup>57</sup> 603 | 15 <sup>49</sup> 359 | 20 <sup>53</sup> 629 | 17 <sup>12</sup> 327 | 23 <sup>99</sup> 603 | 15 <sup>32</sup> 340 | 21 <sup>13</sup> 596 | 17 <sup>58</sup> 410 | —                    | 25. |
| 26.                    | 1 <sup>59</sup> 373  | 7 <sup>15</sup> 677  | 2 <sup>37</sup> 312  | 8 <sup>19</sup> 617  | 3 <sup>31</sup> 359  | 9 <sup>38</sup> 734  | 6 <sup>91</sup> 324  | 11 <sup>56</sup> 608 | 4 <sup>99</sup> 314  | 10 <sup>27</sup> 577 | 7 <sup>19</sup> 392  | 0 <sup>05</sup> 737  | 26. |
| 27.                    | 14 <sup>12</sup> 359 | 20 <sup>00</sup> 658 | 15 <sup>18</sup> 308 | 20 <sup>59</sup> 577 | 15 <sup>58</sup> 476 | 21 <sup>86</sup> 750 | 18 <sup>45</sup> 340 | —                    | 16 <sup>37</sup> 345 | 23 <sup>08</sup> 623 | 18 <sup>59</sup> 389 | 12 <sup>32</sup> 665 | 27. |
| 28.                    | 2 <sup>38</sup> 379  | 8 <sup>17</sup> 681  | 3 <sup>18</sup> 318  | 9 <sup>29</sup> 641  | 5 <sup>28</sup> 421  | 10 <sup>40</sup> 708 | 7 <sup>48</sup> 321  | 0 <sup>49</sup> 633  | 5 <sup>56</sup> 340  | —                    | 7 <sup>52</sup> 450  | 0 <sup>51</sup> 724  | 28. |
| 29.                    | 15 <sup>49</sup> 359 | 21 <sup>92</sup> 614 | 16 <sup>98</sup> 349 | 22 <sup>91</sup> 658 | 17 <sup>55</sup> 384 | 23 <sup>39</sup> 760 | 20 <sup>18</sup> 337 | 13 <sup>39</sup> 630 | 18 <sup>49</sup> 357 | 12 <sup>19</sup> 626 | 20 <sup>45</sup> 453 | 13 <sup>41</sup> 776 | 29. |
| 30.                    | 3 <sup>48</sup> 343  | 9 <sup>38</sup> 646  | 4 <sup>35</sup> 380  | 10 <sup>15</sup> 694 | 5 <sup>04</sup> 569  | 11 <sup>59</sup> 864 | 9 <sup>06</sup> 311  | 1 <sup>48</sup> 640  | 7 <sup>46</sup> 342  | 0 <sup>38</sup> 664  | 8 <sup>48</sup> 382  | 1 <sup>33</sup> 739  | 30. |
| 31.                    | 16 <sup>49</sup> 354 | 22 <sup>29</sup> 656 | 17 <sup>39</sup> 364 | 23 <sup>19</sup> 651 | 19 <sup>04</sup> 587 | —                    | 21 <sup>19</sup> 324 | 14 <sup>25</sup> 621 | 20 <sup>04</sup> 358 | 13 <sup>39</sup> 651 | 21 <sup>11</sup> 363 | 14 <sup>15</sup> 698 | 31. |
| 1.                     | 5 <sup>10</sup> 378  | 10 <sup>55</sup> 690 | 5 <sup>52</sup> 364  | 11 <sup>49</sup> 677 | 8 <sup>24</sup> 501  | 0 <sup>18</sup> 854  | 10 <sup>99</sup> 307 | 2 <sup>52</sup> 646  | 8 <sup>59</sup> 340  | 14 <sup>12</sup> 679 | 9 <sup>34</sup> 343  | 2 <sup>35</sup> 685  | 1.  |
| 2.                     | 18 <sup>16</sup> 366 | 23 <sup>45</sup> 660 | 18 <sup>45</sup> 362 | —                    | 20 <sup>56</sup> 462 | 13 <sup>38</sup> 787 | 21 <sup>58</sup> 318 | 15 <sup>21</sup> 622 | 21 <sup>00</sup> 345 | 14 <sup>24</sup> 655 | 22 <sup>99</sup> 340 | 14 <sup>53</sup> 680 | 2.  |
| 3.                     | 6 <sup>39</sup> 357  | —                    | 7 <sup>97</sup> 357  | 0 <sup>24</sup> 657  | 9 <sup>13</sup> 389  | 1 <sup>28</sup> 739  | 10 <sup>49</sup> 328 | 3 <sup>31</sup> 665  | 9 <sup>32</sup> 345  | 2 <sup>30</sup> 683  | 10 <sup>12</sup> 340 | 3 <sup>19</sup> 690  | 3.  |
| 4.                     | 19 <sup>21</sup> 359 | 12 <sup>19</sup> 683 | 19 <sup>59</sup> 355 | 12 <sup>59</sup> 672 | 21 <sup>40</sup> 366 | 14 <sup>39</sup> 712 | 22 <sup>54</sup> 321 | 15 <sup>59</sup> 670 | 21 <sup>45</sup> 352 | 15 <sup>01</sup> 673 | 22 <sup>20</sup> 367 | 15 <sup>42</sup> 701 | 4.  |
| 5.                     | 7 <sup>41</sup> 389  | 0 <sup>58</sup> 692  | 8 <sup>23</sup> 352  | 12 <sup>88</sup> 666 | 10 <sup>99</sup> 353 | 2 <sup>49</sup> 705  | 11 <sup>25</sup> 295 | 4 <sup>19</sup> 655  | 10 <sup>17</sup> 341 | 3 <sup>12</sup> 694  | 10 <sup>50</sup> 350 | 3 <sup>98</sup> 714  | 5.  |
| 6.                     | 22 <sup>22</sup> 373 | 13 <sup>92</sup> 729 | 20 <sup>47</sup> 366 | 13 <sup>57</sup> 680 | 22 <sup>14</sup> 378 | 15 <sup>29</sup> 686 | 23 <sup>29</sup> 268 | 16 <sup>30</sup> 575 | 22 <sup>28</sup> 325 | 15 <sup>29</sup> 659 | 22 <sup>59</sup> 334 | 15 <sup>58</sup> 670 | 6.  |
| 7.                     | 8 <sup>50</sup> 359  | 1 <sup>42</sup> 692  | 9 <sup>20</sup> 364  | 2 <sup>24</sup> 679  | 10 <sup>55</sup> 425 | 3 <sup>51</sup> 764  | 11 <sup>30</sup> 288 | 4 <sup>59</sup> 583  | 10 <sup>59</sup> 302 | 3 <sup>42</sup> 654  | 11 <sup>08</sup> 338 | 4 <sup>15</sup> 676  | 7.  |
| 8.                     | 21 <sup>14</sup> 378 | 14 <sup>16</sup> 713 | 21 <sup>42</sup> 364 | 14 <sup>58</sup> 680 | 23 <sup>15</sup> 420 | 15 <sup>58</sup> 775 | 23 <sup>54</sup> 299 | 17 <sup>12</sup> 588 | 22 <sup>57</sup> 329 | 16 <sup>25</sup> 637 | 23 <sup>31</sup> 341 | 16 <sup>28</sup> 689 | 8.  |
| 9.                     | 9 <sup>42</sup> 372  | 2 <sup>40</sup> 712  | 10 <sup>21</sup> 343 | 3 <sup>09</sup> 685  | 11 <sup>48</sup> 391 | 4 <sup>29</sup> 779  | —                    | 5 <sup>39</sup> 622  | 11 <sup>18</sup> 336 | 4 <sup>14</sup> 682  | 11 <sup>37</sup> 351 | 4 <sup>47</sup> 690  | 9.  |
| 10.                    | 22 <sup>09</sup> 376 | 15 <sup>02</sup> 724 | 22 <sup>22</sup> 344 | 15 <sup>43</sup> 659 | 23 <sup>45</sup> 366 | 16 <sup>44</sup> 711 | 12 <sup>18</sup> 306 | 17 <sup>40</sup> 603 | 23 <sup>33</sup> 339 | 16 <sup>40</sup> 680 | —                    | 17 <sup>03</sup> 705 | 10. |
| 11.                    | 10 <sup>34</sup> 361 | 3 <sup>27</sup> 717  | 10 <sup>58</sup> 360 | 3 <sup>57</sup> 677  | —                    | 4 <sup>53</sup> 732  | 0 <sup>27</sup> 289  | 5 <sup>57</sup> 625  | 11 <sup>47</sup> 342 | 4 <sup>45</sup> 691  | 0 <sup>03</sup> 351  | 5 <sup>14</sup> 675  | 11. |
| 12.                    | 22 <sup>55</sup> 356 | 15 <sup>54</sup> 700 | 23 <sup>29</sup> 360 | 16 <sup>20</sup> 702 | 12 <sup>23</sup> 350 | 17 <sup>20</sup> 666 | 12 <sup>41</sup> 307 | 18 <sup>07</sup> 638 | 24 <sup>09</sup> 338 | 17 <sup>08</sup> 674 | 12 <sup>11</sup> 339 | 17 <sup>31</sup> 682 | 12. |
| 13.                    | 11 <sup>19</sup> 344 | 4 <sup>10</sup> 700  | 11 <sup>43</sup> 349 | 4 <sup>35</sup> 681  | 0 <sup>27</sup> 324  | 5 <sup>24</sup> 639  | 0 <sup>40</sup> 326  | 6 <sup>07</sup> 650  | —                    | 5 <sup>14</sup> 674  | 0 <sup>31</sup> 335  | 5 <sup>52</sup> 658  | 13. |
| 14.                    | 23 <sup>35</sup> 340 | 16 <sup>28</sup> 671 | 23 <sup>59</sup> 369 | 17 <sup>15</sup> 689 | 12 <sup>54</sup> 290 | 18 <sup>01</sup> 605 | 13 <sup>97</sup> 317 | 18 <sup>30</sup> 618 | 12 <sup>04</sup> 340 | 17 <sup>25</sup> 676 | 12 <sup>24</sup> 339 | 17 <sup>55</sup> 683 | 14. |
| 15.                    | —                    | 4 <sup>54</sup> 659  | —                    | 5 <sup>29</sup> 709  | 0 <sup>55</sup> 292  | 6 <sup>08</sup> 642  | 1 <sup>14</sup> 298  | 6 <sup>45</sup> 643  | 0 <sup>17</sup> 345  | 5 <sup>3</sup>       |                      |                      |     |

Weser

Pegel: Farge

km 26,3 der Unterweser
PN = NN -5,00 n. S. FN = 41 465 km²

Table with columns for months (Mai, Juni, Juli, August, September, Oktober) and days (1-31). Each day has two columns for water level (Tnw, Thw) with time and cm. Includes a 'Tageswerte (cm)' section and summary statistics at the bottom.

Eisverhältnisse 1954: s. S. 46

Hauptzahlen s. S. 55

Weser

Pegel: Brake

km 40,70 der Unterweser
PN = NN -5,00 n. S. FN = 44 305 km²

Table with columns for months (November to April) and days (1 to 31), containing water level data (Tnw, Thw) in cm. Includes a 'Tageswerte (cm)' section and a summary row at the bottom.

Eisverhältnisse 1954: An 28 Tagen Eisbewegung.

Hauptzahlen s. S. 55

Weser

Pegel: Brake

km 40,70 der Unterweser
PN = NN -5,00 n. S. FN = 44 365 km²

Table with columns for months (Mai, Juni, Juli, August, September, Oktober) and days (Tag). It contains daily water level measurements (Tnw, Thw) in cm and time (Zeit) in cm. Includes a summary row at the bottom with totals for each month.

Eisverhältnisse 1954: s. S. 48.

Hauptzahlen s. S. 55

Weser

Pegel: Bremerhaven, Doppelschleuse

km 65,5 der Unterweser
PN = NN -5,00 n. S. FN = 45 247 km²

Table with columns for months (November to April) and days (1 to 31). Each day has two columns for Tnw and Thw with time and cm values. Includes a 'Tageswerte (cm)' section and summary statistics at the bottom.

Eisverhältnisse 1954: An 26 Tagen Eisbewegung.

Hauptzahlen s. S. 56.

Weser

Pegel: Bremerhaven, Doppelschleuse

km 65,5 der Unterweser
PN = NN -5,00 n. S. FN = 45 247 km²

Table with columns for months (Mai, Juni, Juli, August, September, Oktober) and days (Tag). Each day has two columns for Tnw and Thw with time and cm values. Includes a 'Tag' column on the right and a 'Tag' column on the left. Summary statistics at the bottom.

Eisverhältnisse 1954: s. S. 50.

Hauptzahlen s. S. 56



Hunte

Pegel: Drielake

25,2 km oberhalb der Mündung  
PN = NN -5,00 n. S.

Table with columns for months (November to April) and days (Tag), containing water level data (Tnw, Thw) in cm. Includes a 'Tageswerte (cm)' section and a summary row at the bottom.

Eisverhältnisse 1954: An 5 Tagen Randeis, an 25 Tagen Eisstand, an 3 Tagen Eisversetzung.

Hauptzahlen s. S. 56.



|   | Nov    |       | Dez   |      | Jan                                 |       | Febr  |               | März |                                     | April |  | Mai  |       | Juni                              |             | Juli |       | Aug   |      | Sept |       | Okt   |      |      |
|---|--------|-------|-------|------|-------------------------------------|-------|-------|---------------|------|-------------------------------------|-------|--|------|-------|-----------------------------------|-------------|------|-------|-------|------|------|-------|-------|------|------|
|   | Tnw    | Thw   | Tnw   | Thw  | Tnw                                 | Thw   | Tnw   | Thw           | Tnw  | Thw                                 | Tnw   | Thw                                      | Tnw  | Thw   | Tnw                               | Thw         | Tnw  | Thw   | Tnw   | Thw  | Tnw  | Thw   | Tnw   | Thw  |      |
| <b>Unterweser</b>   |        |       |       |      |                                     |       |       |               |      |                                     |       |  |      |       |                                   |             |      |       |       |      |      |       |       |      |      |
| PN = NN — 5,00 m n. S.  |        |       |       |      |                                     |       |       |               |      |                                     |       | <b>Pegel: Bremen, Gr. Weserbrücke</b>    |      |       |                                   |             |      |       |       |      |      |       |       |      |      |
| <b>Hauptzahlen (cm)</b>   |        |       |       |      |                                     |       |       |               |      |                                     |       |  |      |       |                                   |             |      |       |       |      |      |       |       |      |      |
| <b>der Monate von 1954</b>  |        |       |       |      |                                     |       |       |               |      |                                     |       |  |      |       |                                   |             |      |       |       |      |      |       |       |      |      |
| Tag   | 1.,25. | 1.    | 14.   | 14.  | 27.                                 | 26.   | 20.   | 1.            | 20.  | 14.                                 | 23.   | 11.                                      | 3.   | 12.   | 5.                                | 10.         | 4.   | 9.    | 14.   | 22.  | 24.  | 24.   | 27.   | 7.   |      |
| Minimum   | 310    | 559   | 306   | 601  | 294                                 | 565   | 278   | 593           | 319  | 598                                 | 343   | 639                                      | 324  | 650   | 329                               | 657         | 329  | 674   | 359   | 681  | 347  | 644   | 371   | 650  |      |
| Mittel  | 363    | 704   | 361   | 700  | 376                                 | 702   | 325   | 650           | 364  | 700                                 | 372   | 715                                      | 347  | 708   | 354                               | 716         | 382  | 733   | 395   | 734  | 391  | 736   | 426   | 740  |      |
| Maximum   | 438    | 762   | 492   | 785  | 599                                 | 800   | 392   | 736           | 414  | 776                                 | 455   | 803                                      | 381  | 761   | 399                               | 757         | 440  | 799   | 454   | 804  | 480  | 840   | 493   | 791  |      |
| Tag   | 30.    | 8.    | 1.    | 27.  | 16.                                 | 16.   | 27.   | 9.            | 6.   | 6.                                  | 15.   | 15.                                      | 20.  | 19.   | 27.                               | 28.         | 16.  | 19.   | 11.   | 30.  | 29.  | 30.   | 7.    | 14.  |      |
| <b>der Monate von 1941/1950</b>   |        |       |       |      |                                     |       |       |               |      |                                     |       |  |      |       |                                   |             |      |       |       |      |      |       |       |      |      |
| Mittl. Minimum  | 342    | 621   | 352   | 634  | 331                                 | 584   | 357   | 608           | 353  | 628                                 | 356   | 645                                      | 343  | 647   | 351                               | 670         | 342  | 677   | 341   | 668  | 336  | 648   | 329   | 629  |      |
| Mittel  | 413    | 722   | 421   | 723  | 429                                 | 712   | 475   | 726           | 449  | 733                                 | 420   | 731                                      | 374  | 717   | 381                               | 726         | 377  | 725   | 378   | 722  | 378  | 718   | 383   | 711  |      |
| Mittl. Maximum  | 507    | 818   | 525   | 826  | 542                                 | 817   | 625   | 838           | 604  | 845                                 | 521   | 809                                      | 430  | 776   | 424                               | 782         | 431  | 781   | 438   | 788  | 459  | 797   | 467   | 813  |      |
| <b>Winter</b>   |        |       |       |      |                                     |       |       | <b>Sommer</b> |      |                                     |       |  |      |       |                                   | <b>Jahr</b> |      |       |       |      |      |       |       |      |      |
| NThw  | NThw   | MNTnw | MNTnw | MThw | MThw                                | MHTnw | MHTnw | NThw          | NThw | MNTnw                               | MNTnw | MThw                                     | MThw | MHTnw | MHTnw                             | NThw        | NThw | MNTnw | MNTnw | MThw | MThw | MHTnw | MHTnw | NThw | NThw |
| <b>1954</b>   |        |       |       |      |                                     |       |       |               |      |                                     |       |  |      |       |                                   |             |      |       |       |      |      |       |       |      |      |
| Tnw: n 350, Σ 126 263; Thw: n 349, Σ 242 732; Tnw: n 355, Σ 135 884; Thw: n 356, Σ 259 746; Tnw: n 705, Σ 262 147; Thw: n 705, Σ 502 478  |        |       |       |      |                                     |       |       |               |      |                                     |       |  |      |       |                                   |             |      |       |       |      |      |       |       |      |      |
| 278   559       361   696       599   890   324   644       383   730       493   840   278   559       372   713       599   890   |        |       |       |      |                                     |       |       |               |      |                                     |       |  |      |       |                                   |             |      |       |       |      |      |       |       |      |      |
| <b>1941/1950</b>  |        |       |       |      |                                     |       |       |               |      |                                     |       |  |      |       |                                   |             |      |       |       |      |      |       |       |      |      |
| 226   454   304   560   434   724   708   895   940   986   300   568   321   622   378   720   509   836   597   927   226   454   297   557   406   722   708   903   940   986 |        |       |       |      |                                     |       |       |               |      |                                     |       |  |      |       |                                   |             |      |       |       |      |      |       |       |      |      |
| <b>Äußerste Wasserstände von 1954</b>   |        |       |       |      |                                     |       |       |               |      |                                     |       |  |      |       |                                   |             |      |       |       |      |      |       |       |      |      |
| NTnw { 278 cm<br>20. Februar 1954   |        |       |       |      | NThw { 559 cm<br>1. November 1953   |       |       |               |      | HTnw { 599 cm<br>16. Januar 1954    |       |  |      |       | HThw { 890 cm<br>16. Januar 1954  |             |      |       |       |      |      |       |       |      |      |
| <b>Überhaupt bekannte äußerste Wasserstände</b>   |        |       |       |      |                                     |       |       |               |      |                                     |       |  |      |       |                                   |             |      |       |       |      |      |       |       |      |      |
| NNTnw { 226 cm<br>1. Februar 1950   |        |       |       |      | NNTnw { 441 cm<br>18. November 1916 |       |       |               |      | HHTnw { 1074 cm<br>14. Februar 1946 |       |  |      |       | HHTnw { 1281 cm<br>13. März 1881* |             |      |       |       |      |      |       |       |      |      |
| <b>Eisverhältnisse 1954:</b> keine Angaben.   |        |       |       |      |                                     |       |       |               |      |                                     |       |  |      |       |                                   |             |      |       |       |      |      |       |       |      |      |
| *) Am 13. März 1881: 1281 cm; ein Unterschied zwischen Hoch- und Niedrigwasser war an diesem Tage nicht bemerkbar.  |        |       |       |      |                                     |       |       |               |      |                                     |       |  |      |       |                                   |             |      |       |       |      |      |       |       |      |      |
| Tagestiden s. S. 42 und 43  |        |       |       |      |                                     |       |       |               |      |                                     |       | Wasser- und Schifffahrtsdirektion Bremen |      |       |                                   |             |      |       |       |      |      |       |       |      |      |

|   | Nov    |       | Dez   |      | Jan                                 |       | Febr  |               | März |                                     | April |  | Mai  |       | Juni                              |             | Juli |       | Aug   |      | Sept |       | Okt   |      |      |
|---|--------|-------|-------|------|-------------------------------------|-------|-------|---------------|------|-------------------------------------|-------|--|------|-------|-----------------------------------|-------------|------|-------|-------|------|------|-------|-------|------|------|
|   | Tnw    | Thw   | Tnw   | Thw  | Tnw                                 | Thw   | Tnw   | Thw           | Tnw  | Thw                                 | Tnw   | Thw                                      | Tnw  | Thw   | Tnw                               | Thw         | Tnw  | Thw   | Tnw   | Thw  | Tnw  | Thw   | Tnw   | Thw  |      |
| <b>Unterweser</b>   |        |       |       |      |                                     |       |       |               |      |                                     |       |  |      |       |                                   |             |      |       |       |      |      |       |       |      |      |
| PN = NN — 5,00 m n. S.  |        |       |       |      |                                     |       |       |               |      |                                     |       | <b>Pegel: Vegesack</b>                   |      |       |                                   |             |      |       |       |      |      |       |       |      |      |
| <b>Hauptzahlen (cm)</b>   |        |       |       |      |                                     |       |       |               |      |                                     |       |  |      |       |                                   |             |      |       |       |      |      |       |       |      |      |
| <b>der Monate von 1954</b>  |        |       |       |      |                                     |       |       |               |      |                                     |       |  |      |       |                                   |             |      |       |       |      |      |       |       |      |      |
| Tag   | 1.,25. | 1.    | 14.   | 14.  | 26.,27.                             | 26.   | 19.   | 1.            | 20.  | 14.                                 | 11.   | 11.                                      | 3.   | 12.   | 5.                                | 10.         | 1.   | 9.    | 22.   | 9.   | 24.  | 24.   | 27.   | 7.   |      |
| Minimum   | 322    | 550   | 315   | 584  | 277                                 | 547   | 286   | 579           | 315  | 585                                 | 339   | 623                                      | 325  | 634   | 340                               | 637         | 349  | 660   | 362   | 668  | 341  | 635   | 355   | 636  |      |
| Mittel  | 374    | 687   | 370   | 681  | 373                                 | 686   | 333   | 638           | 363  | 683                                 | 369   | 696                                      | 354  | 687   | 365                               | 695         | 390  | 718   | 390   | 717  | 395  | 722   | 407   | 723  |      |
| Maximum   | 445    | 746   | 500   | 774  | 601                                 | 879   | 402   | 720           | 401  | 758                                 | 456   | 785                                      | 388  | 741   | 415                               | 741         | 445  | 789   | 460   | 793  | 485  | 833   | 490   | 777  |      |
| Tag   | 30.    | 8.    | 1.    | 27.  | 16.                                 | 16.   | 27.   | 9.            | 6.   | 6.                                  | 15.   | 15.                                      | 21.  | 19.   | 27.                               | 28.         | 16.  | 19.   | 11.   | 30.  | 29.  | 30.   | 7.    | 14.  |      |
| <b>der Monate von 1941/1950</b>   |        |       |       |      |                                     |       |       |               |      |                                     |       |  |      |       |                                   |             |      |       |       |      |      |       |       |      |      |
| Mittl. Minimum  | 332    | 594   | 334   | 611  | 299                                 | 560   | 320   | 582           | 320  | 605                                 | 331   | 622                                      | 329  | 627   | 353                               | 648         | 347  | 653   | 349   | 650  | 340  | 633   | 329   | 613  |      |
| Mittel  | 394    | 697   | 397   | 700  | 389                                 | 685   | 415   | 697           | 394  | 701                                 | 384   | 706                                      | 366  | 694   | 377                               | 704         | 378  | 702   | 381   | 699  | 383  | 697   | 384   | 690  |      |
| Mittl. Maximum  | 500    | 799   | 510   | 808  | 494                                 | 790   | 549   | 799           | 516  | 807                                 | 478   | 787                                      | 423  | 755   | 422                               | 765         | 432  | 761   | 443   | 770  | 464  | 773   | 473   | 793  |      |
| <b>Winter</b>   |        |       |       |      |                                     |       |       | <b>Sommer</b> |      |                                     |       |  |      |       |                                   | <b>Jahr</b> |      |       |       |      |      |       |       |      |      |
| NThw  | NThw   | MNTnw | MNTnw | MThw | MThw                                | MHTnw | MHTnw | NThw          | NThw | MNTnw                               | MNTnw | MThw                                     | MThw | MHTnw | MHTnw                             | NThw        | NThw | MNTnw | MNTnw | MThw | MThw | MHTnw | MHTnw | NThw | NThw |
| <b>1954</b>   |        |       |       |      |                                     |       |       |               |      |                                     |       |  |      |       |                                   |             |      |       |       |      |      |       |       |      |      |
| Tnw: n 350, Σ 127 393; Thw: n 349, Σ 296 873; Tnw: n 355, Σ 136 208; Thw: n 356, Σ 252 916; Tnw: n 705, Σ 263 601; Thw: n 705, Σ 489 789  |        |       |       |      |                                     |       |       |               |      |                                     |       |  |      |       |                                   |             |      |       |       |      |      |       |       |      |      |
| 277   547       364   679       601   879   325   634       384   710       490   833   277   547       374   695       601   879   |        |       |       |      |                                     |       |       |               |      |                                     |       |  |      |       |                                   |             |      |       |       |      |      |       |       |      |      |
| <b>1941/1950</b>  |        |       |       |      |                                     |       |       |               |      |                                     |       |  |      |       |                                   |             |      |       |       |      |      |       |       |      |      |
| 222   450   285   535   395   697   597   851   682   895   250   548   318   607   378   698   507   816   581   896   222   450   284   533   387   698   600   861   682   896 |        |       |       |      |                                     |       |       |               |      |                                     |       |  |      |       |                                   |             |      |       |       |      |      |       |       |      |      |
| <b>Äußerste Wasserstände von 1954</b>   |        |       |       |      |                                     |       |       |               |      |                                     |       |  |      |       |                                   |             |      |       |       |      |      |       |       |      |      |
| NTnw { 277 cm<br>26./27. Januar   |        |       |       |      | NThw { 547 cm<br>26. Januar         |       |       |               |      | HTnw { 601 cm<br>16. Januar         |       |  |      |       | HThw { 879 cm<br>16. Januar       |             |      |       |       |      |      |       |       |      |      |
| <b>Überhaupt bekannte äußerste Wasserstände</b>   |        |       |       |      |                                     |       |       |               |      |                                     |       |  |      |       |                                   |             |      |       |       |      |      |       |       |      |      |
| NNTnw { 215 cm<br>25. Januar 1937   |        |       |       |      | NNTnw { 414 cm<br>18. November 1916 |       |       |               |      | HHTnw { 827 cm<br>23. Dezember 1894 |       |  |      |       | HHTnw { 1017 cm<br>1. Januar 1855 |             |      |       |       |      |      |       |       |      |      |
| <b>Eisverhältnisse 1954:</b> Vom 27. I. bis 18. II. Treibeis. Am 19. II. und 22. II. lockeres Treibeis.   |        |       |       |      |                                     |       |       |               |      |                                     |       |  |      |       |                                   |             |      |       |       |      |      |       |       |      |      |
| Tagestiden s. S. 44 und 45  |        |       |       |      |                                     |       |       |               |      |                                     |       | Wasser- und Schifffahrtsdirektion Bremen |      |       |                                   |             |      |       |       |      |      |       |       |      |      |

|   |                             | Nov.                   |       | Dez. |       | Jan.                        |      | Febr. |      | März. |                               | April. |         | Mai. |       | Juni.                         |      | Juli. |      | Aug. |      | Sept. |       | Okt. |      |                     |      |      |      |
|---|-----------------------------|------------------------|-------|------|-------|-----------------------------|------|-------|------|-------|-------------------------------|--------|---------|------|-------|-------------------------------|------|-------|------|------|------|-------|-------|------|------|---------------------|------|------|------|
|   |                             | Tnw                    | Thw   | Tnw  | Thw   | Tnw                         | Thw  | Tnw   | Thw  | Tnw   | Thw                           | Tnw    | Thw     | Tnw  | Thw   | Tnw                           | Thw  | Tnw   | Thw  | Tnw  | Thw  | Tnw   | Thw   | Tnw  | Thw  |                     |      |      |      |
| <b>Unterweser</b>   |                             | PN = NN — 5,00 m n. S. |       |      |       |                             |      |       |      |       |                               |        |         |      |       |                               |      |       |      |      |      |       |       |      |      | <b>Pegel: Farge</b> |      |      |      |
| <b>Hauptzahlen (cm)</b>   |                             |                        |       |      |       |                             |      |       |      |       |                               |        |         |      |       |                               |      |       |      |      |      |       |       |      |      |                     |      |      |      |
| <b>der Monate von 1954</b>  |                             |                        |       |      |       |                             |      |       |      |       |                               |        |         |      |       |                               |      |       |      |      |      |       |       |      |      |                     |      |      |      |
| Tag   | 25.                         | 1.                     | 14.   | 14.  | 26.   | 26.                         | 19.  | 1.    | 20.  | 14.   | 10.                           | 11.    | 3.      | 11.  | 5.    | 10.                           | 1.   | 9.    | 22.  | 22.  | 24.  | 24.   | 27.   | 7.   |      |                     |      |      |      |
| Minimum   | 312                         | 542                    | 308   | 577  | 264   | 536                         | 268  | 573   | 302  | 577   | 325                           | 614    | 316     | 630  | 327   | 631                           | 336  | 650   | 347  | 656  | 327  | 625   | 342   | 626  |      |                     |      |      |      |
| Mittel  | 364                         | 673                    | 363   | 670  | 364   | 672                         | 324  | 628   | 351  | 672   | 359                           | 686    | 346     | 680  | 355   | 687                           | 376  | 704   | 376  | 703  | 383  | 709   | 395   | 710  |      |                     |      |      |      |
| Maximum   | 444                         | 731                    | 500   | 760  | 587   | 864                         | 396  | 707   | 386  | 743   | 453                           | 776    | 376     | 733  | 407   | 730                           | 430  | 772   | 454  | 779  | 480  | 824   | 486   | 759  |      |                     |      |      |      |
| Tag   | 30.                         | 29.                    | 1.    | 27.  | 16.   | 16.                         | 27.  | 9.    | 2.   | 6.    | 15.                           | 15.    | 19.,20. | 19.  | 27.   | 27.                           | 16.  | 19.   | 11.  | 30.  | 29.  | 30.   | 7.    | 14.  |      |                     |      |      |      |
| <b>der Monate von 1941/1950</b>   |                             |                        |       |      |       |                             |      |       |      |       |                               |        |         |      |       |                               |      |       |      |      |      |       |       |      |      |                     |      |      |      |
| Mittl. Minimum  | 317                         | 588                    | 323   | 605  | 285   | 556                         | 306  | 576   | 308  | 599   | 319                           | 618    | 319     | 621  | 336   | 642                           | 332  | 647   | 333  | 642  | 325  | 626   | 316   | 608  |      |                     |      |      |      |
| Mittel  | 380                         | 692                    | 383   | 694  | 373   | 679                         | 394  | 690   | 376  | 693   | 371                           | 699    | 354     | 688  | 363   | 696                           | 364  | 695   | 367  | 692  | 371  | 690   | 372   | 685  |      |                     |      |      |      |
| Mittl. Maximum  | 493                         | 795                    | 503   | 805  | 480   | 787                         | 531  | 795   | 493  | 801   | 468                           | 781    | 416     | 747  | 412   | 756                           | 420  | 753   | 433  | 764  | 457  | 767   | 465   | 789  |      |                     |      |      |      |
| <b>Winter Sommer Jahr</b>   |                             |                        |       |      |       |                             |      |       |      |       |                               |        |         |      |       |                               |      |       |      |      |      |       |       |      |      |                     |      |      |      |
| NTnw  | NThw                        | MNTnw                  | MNThw | MTnw | MThw  | MHTnw                       | MHTw | HTnw  | HThw | NTnw  | NThw                          | MNTnw  | MNThw   | MTnw | MThw  | MHTnw                         | MHTw | HTnw  | HThw | NTnw | NThw | MNTnw | MNThw | MTnw | MThw | MHTnw               | MHTw | HTnw | HThw |
| <b>1954</b>   |                             |                        |       |      |       |                             |      |       |      |       |                               |        |         |      |       |                               |      |       |      |      |      |       |       |      |      |                     |      |      |      |
| Tnw: n 350, Σ 124 086; Thw: n 349, Σ 232 874; Tnw: n 355, Σ 131 932; Thw: n 356, Σ 248 796; Tnw: n 705, Σ 256 018; Thw: n 705, Σ 481 670  |                             |                        |       |      |       |                             |      |       |      |       |                               |        |         |      |       |                               |      |       |      |      |      |       |       |      |      |                     |      |      |      |
| 264   536       355   667       587   864   316   625       372   699       486   824   264   536       363   683       587   864   |                             |                        |       |      |       |                             |      |       |      |       |                               |        |         |      |       |                               |      |       |      |      |      |       |       |      |      |                     |      |      |      |
| <b>1941/1950</b>  |                             |                        |       |      |       |                             |      |       |      |       |                               |        |         |      |       |                               |      |       |      |      |      |       |       |      |      |                     |      |      |      |
| 227   439   276   530   379   691   580   848   680   890   245   544   306   603   365   691   502   811   565   891   227   439   274   528   372   691   581   858   680   891 |                             |                        |       |      |       |                             |      |       |      |       |                               |        |         |      |       |                               |      |       |      |      |      |       |       |      |      |                     |      |      |      |
| <b>Äußerste Wasserstände von 1954</b>   |                             |                        |       |      |       |                             |      |       |      |       |                               |        |         |      |       |                               |      |       |      |      |      |       |       |      |      |                     |      |      |      |
| NTnw  | { 264 cm<br>26. Januar      |                        |       |      | NThw  | { 536 cm<br>26. Januar      |      |       |      | HTnw  | { 587 cm<br>16. Januar        |        |         |      | HThw  | { 864 cm<br>16. Januar        |      |       |      |      |      |       |       |      |      |                     |      |      |      |
| <b>Überhaupt bekannte äußerste Wasserstände</b>   |                             |                        |       |      |       |                             |      |       |      |       |                               |        |         |      |       |                               |      |       |      |      |      |       |       |      |      |                     |      |      |      |
| NNTnw   | { 194 cm<br>25. Januar 1937 |                        |       |      | NNThw | { 397 cm<br>16. Januar 1905 |      |       |      | HHTnw | { 814 cm<br>23. Dezember 1894 |        |         |      | HHThw | { 1006 cm<br>1.2. Januar 1855 |      |       |      |      |      |       |       |      |      |                     |      |      |      |
| Eisverhältnisse 1954: Vom 28. I. bis 15. II., am 17. II. und 18. II. und vom 22. II. bis 25. II. Treibeis, am 21. II. lockeres Treibeis.  |                             |                        |       |      |       |                             |      |       |      |       |                               |        |         |      |       |                               |      |       |      |      |      |       |       |      |      |                     |      |      |      |
| Tagestiden s. S. 46 und 47  |                             |                        |       |      |       |                             |      |       |      |       |                               |        |         |      |       |                               |      |       |      |      |      |       |       |      |      |                     |      |      |      |
| Wasser- und Schifffahrtsdirektion Bremen  |                             |                        |       |      |       |                             |      |       |      |       |                               |        |         |      |       |                               |      |       |      |      |      |       |       |      |      |                     |      |      |      |

|   |                             | Nov.                   |       | Dez. |       | Jan.                        |      | Febr. |       | März. |                               | April. |       | Mai.    |       | Juni.                      |      | Juli. |      | Aug. |      | Sept. |       | Okt. |      |                     |      |      |      |
|---|-----------------------------|------------------------|-------|------|-------|-----------------------------|------|-------|-------|-------|-------------------------------|--------|-------|---------|-------|----------------------------|------|-------|------|------|------|-------|-------|------|------|---------------------|------|------|------|
|   |                             | Tnw                    | Thw   | Tnw  | Thw   | Tnw                         | Thw  | Tnw   | Thw   | Tnw   | Thw                           | Tnw    | Thw   | Tnw     | Thw   | Tnw                        | Thw  | Tnw   | Thw  | Tnw  | Thw  | Tnw   | Thw   | Tnw  | Thw  |                     |      |      |      |
| <b>Unterweser</b>   |                             | PN = NN — 5,00 m n. S. |       |      |       |                             |      |       |       |       |                               |        |       |         |       |                            |      |       |      |      |      |       |       |      |      | <b>Pegel: Brake</b> |      |      |      |
| <b>Hauptzahlen (cm)</b>   |                             |                        |       |      |       |                             |      |       |       |       |                               |        |       |         |       |                            |      |       |      |      |      |       |       |      |      |                     |      |      |      |
| <b>der Monate von 1954</b>  |                             |                        |       |      |       |                             |      |       |       |       |                               |        |       |         |       |                            |      |       |      |      |      |       |       |      |      |                     |      |      |      |
| Tag   | 24.                         | 1.                     | 14.   | 14.  | 26.   | 26.                         | 19.  | 19.   | 20.   | 14.   | 10.                           | 11.    | 3.    | 11.     | 4.    | 10.                        | 1.   | 9.    | 18.  | 22.  | 24.  | 24.   | 27.   | 7.   |      |                     |      |      |      |
| Minimum   | 289                         | 535                    | 291   | 569  | 230   | 522                         | 249  | 565   | 272   | 564   | 297                           | 603    | 287   | 616     | 297   | 623                        | 311  | 637   | 315  | 642  | 304  | 615   | 311   | 611  |      |                     |      |      |      |
| Mittel  | 352                         | 669                    | 347   | 663  | 347   | 666                         | 308  | 623   | 329   | 663   | 335                           | 675    | 322   | 670     | 334   | 677                        | 353  | 693   | 351  | 691  | 363  | 699   | 368   | 698  |      |                     |      |      |      |
| Maximum   | 444                         | 729                    | 503   | 753  | 591   | 875                         | 392  | 701   | 372   | 733   | 440                           | 763    | 352   | 719     | 399   | 724                        | 413  | 762   | 449  | 764  | 481  | 817   | 480   | 748  |      |                     |      |      |      |
| Tag   | 30.                         | 29.                    | 1.    | 27.  | 16.   | 16.                         | 27.  | 9.    | 1.,2. | 6.    | 15.                           | 15.    | 20.   | 19.,20. | 27.   | 27.                        | 16.  | 19.   | 11.  | 30.  | 29.  | 30.   | 7.    | 14.  |      |                     |      |      |      |
| <b>der Monate von 1941/1950</b>   |                             |                        |       |      |       |                             |      |       |       |       |                               |        |       |         |       |                            |      |       |      |      |      |       |       |      |      |                     |      |      |      |
| Mittl. Minimum  | 283                         | 580                    | 287   | 590  | 247   | 544                         | 265  | 565   | 273   | 587   | 284                           | 605    | 287   | 608     | 304   | 631                        | 301  | 635   | 298  | 633  | 296  | 614   | 289   | 597  |      |                     |      |      |      |
| Mittel  | 354                         | 680                    | 355   | 680  | 342   | 665                         | 354  | 676   | 340   | 679   | 341                           | 686    | 327   | 676     | 337   | 686                        | 339  | 686   | 342  | 683  | 349  | 681   | 350   | 674  |      |                     |      |      |      |
| Mittl. Maximum  | 484                         | 788                    | 491   | 796  | 471   | 765                         | 515  | 785   | 473   | 790   | 454                           | 771    | 401   | 738     | 395   | 745                        | 406  | 746   | 422  | 758  | 449  | 760   | 457   | 786  |      |                     |      |      |      |
| <b>Winter Sommer Jahr</b>   |                             |                        |       |      |       |                             |      |       |       |       |                               |        |       |         |       |                            |      |       |      |      |      |       |       |      |      |                     |      |      |      |
| NTnw  | NThw                        | MNTnw                  | MNThw | MTnw | MThw  | MHTnw                       | MHTw | HTnw  | HThw  | NTnw  | NThw                          | MNTnw  | MNThw | MTnw    | MThw  | MHTnw                      | MHTw | HTnw  | HThw | NTnw | NThw | MNTnw | MNThw | MTnw | MThw | MHTnw               | MHTw | HTnw | HThw |
| <b>1954</b>   |                             |                        |       |      |       |                             |      |       |       |       |                               |        |       |         |       |                            |      |       |      |      |      |       |       |      |      |                     |      |      |      |
| Tnw: n 350, Σ 117 857; Thw: n 349, Σ 290 449; Tnw: n 356, Σ 124 051; Tnw: n 356, Σ 244 951; Tnw: n 706, Σ 241 908; Thw: n 705, Σ 475 400  |                             |                        |       |      |       |                             |      |       |       |       |                               |        |       |         |       |                            |      |       |      |      |      |       |       |      |      |                     |      |      |      |
| 230   522       337   660       591   875   287   611       348   688       481   817   230   522       343   674       591   875   |                             |                        |       |      |       |                             |      |       |       |       |                               |        |       |         |       |                            |      |       |      |      |      |       |       |      |      |                     |      |      |      |
| <b>1941/1950</b>  |                             |                        |       |      |       |                             |      |       |       |       |                               |        |       |         |       |                            |      |       |      |      |      |       |       |      |      |                     |      |      |      |
| 177   422   235   519   348   678   570   842   693   895   210   530   276   591   340   681   500   809   553   908   177   422   234   519   344   679   572   856   693   908 |                             |                        |       |      |       |                             |      |       |       |       |                               |        |       |         |       |                            |      |       |      |      |      |       |       |      |      |                     |      |      |      |
| <b>Äußerste Wasserstände von 1954</b>   |                             |                        |       |      |       |                             |      |       |       |       |                               |        |       |         |       |                            |      |       |      |      |      |       |       |      |      |                     |      |      |      |
| NTnw  | { 230 cm<br>26. Januar      |                        |       |      | NThw  | { 522 cm<br>26. Januar      |      |       |       | HTnw  | { 591 cm<br>16. Januar        |        |       |         | HThw  | { 875 cm<br>16. Januar     |      |       |      |      |      |       |       |      |      |                     |      |      |      |
| <b>Überhaupt bekannte äußerste Wasserstände</b>   |                             |                        |       |      |       |                             |      |       |       |       |                               |        |       |         |       |                            |      |       |      |      |      |       |       |      |      |                     |      |      |      |
| NNTnw   | { 135 cm<br>25. Januar 1937 |                        |       |      | NNThw | { 375 cm<br>16. Januar 1905 |      |       |       | HHTnw | { 793 cm<br>23. Dezember 1894 |        |       |         | HHThw | { 987 cm<br>1. Januar 1855 |      |       |      |      |      |       |       |      |      |                     |      |      |      |
| Eisverhältnisse 1954: Vom 28. I. bis 18. II. und vom 22. II. bis 25. II. Treibeis. Am 19. II., 20. II. und 21. II. lockeres Treibeis.   |                             |                        |       |      |       |                             |      |       |       |       |                               |        |       |         |       |                            |      |       |      |      |      |       |       |      |      |                     |      |      |      |
| Tagestiden s. S. 48 und 49  |                             |                        |       |      |       |                             |      |       |       |       |                               |        |       |         |       |                            |      |       |      |      |      |       |       |      |      |                     |      |      |      |
| Wasser- und Schifffahrtsdirektion Bremen  |                             |                        |       |      |       |                             |      |       |       |       |                               |        |       |         |       |                            |      |       |      |      |      |       |       |      |      |                     |      |      |      |

Table with 12 columns for months (Nov to Okt) and 2 rows for Tnw and Thw.

Unterweser

PN = NN — 5,00 m n. S.

Pegel: Bremerhaven, Doppelschleuse

Hauptzahlen (cm) der Monate von 1954

Table with 12 columns for months and 4 rows for Tag, Minimum, Mittel, Maximum.

der Monate von 1941/1950

Table with 12 columns for months and 3 rows for Mittl. Minimum, Mittel, Mittl. Maximum.

Winter

Sommer

Jahr

Table with 12 columns for months and 2 rows for N and H (Tnw, Thw).

1954

Tnw: n 350, Σ 110 492; Thw: n 350, Σ 225 521; Tnw: n 356, Σ 115 704; Thw: n 355, Σ 230 099; Tnw: n 706, Σ 226 196; Thw: n 705, Σ 463 620

1941/1950

194 | 507 | | | 316 | 644 | | | 607 | 874 | 249 | 586 | | | 325 | 671 | | | 493 | 816 | 194 | 507 | | | 320 | 658 | | | 607 | 874

Äußerste Wasserstände von 1954

NTnw { 194 cm 26. Januar NThw { 507 cm 26. Januar HTnw { 607 cm 16. Januar HThw { 874 cm 16. Januar

Überhaupt bekannte äußerste Wasserstände

NNTnw { 90 cm 25. Januar 1937 NNThw { 352 cm 16. Januar 1905 HHTnw { 797 cm 23. Dezember 1894 HHThw { 1004 cm 3./4. Februar 1825

Eisverhältnisse 1954: Vom 31. I. bis 25. II. Treibeis.

Tagestiden s. S. 50 und 51

Wasser- und Schifffahrtsdirektion Bremen

Hunte

PN = NN — 5,00 m n. S.

Pegel: Drielake

25,2 km oberhalb der Mündung

Hauptzahlen (cm) der Monate von 1954

Table with 12 columns for months and 4 rows for Tag, Minimum, Mittel, Maximum.

der Monate von 1931/1940\*

Table with 12 columns for months and 3 rows for Mittl. Minimum, Mittel, Mittl. Maximum.

Winter

Sommer

Jahr

Table with 12 columns for months and 2 rows for N and H (Tnw, Thw).

1954

Tnw: n 350, Σ 159 791; Thw: n 349, Σ 235 490; Tnw: n 355, Σ 166 469; Thw: n 356, Σ 251 849; Tnw: n 705, Σ 326 260; Thw: n 705, Σ 487 339

1931/1940\*

| 418 | 538 | 508 | 684 | 657 | 810 | | | | 415 | 598 | 462 | 684 | 579 | 791 | | | | 408 | 538 | 485 | 684 | 657 | 810 | |

Äußerste Wasserstände von 1954

NTnw { 383 cm 2. November 1953 NThw { 533 cm 26. Januar HTnw { 631 cm 16. Januar HThw { 821 cm 17. Januar

Überhaupt bekannte äußerste Wasserstände

NNTnw { 354 cm 6. November 1951 NNThw { 450 cm 18. Januar 1912 HHTnw { 759 cm 14. Januar 1916 HHThw { 821 cm 17. Januar 1954

Eisverhältnisse 1954: An 5 Tagen Randeis, an 25 Tagen Eisstand, an 3 Tagen Eisversetzung.

\* Der Pegel war von 1945 bis 1949 außer Betrieb. Die Unterlagen von 1944 sind verlorengegangen. Als Jahresreihe kann nur 1931/40 gebracht werden.

Tagestiden s. S. 52 und 53

Wasser- und Schifffahrtsdirektion Bremen

## Dauerzahlen der Wasserstände

Unterschreitungszahl

| Pegel<br>Wasser-<br>stand<br>cm | Bremen, Gr. Weserbrücke |           |      |           | Veegesack |         |      |         | Farge |     |      |     |
|---------------------------------|-------------------------|-----------|------|-----------|-----------|---------|------|---------|-------|-----|------|-----|
|                                 | Tnw                     |           | Thw  |           | Tnw       |         | Thw  |         | Tnw   |     | Thw  |     |
|                                 | 1954                    | 1941/50*) | 1954 | 1941/50*) | 1954      | 1946/50 | 1954 | 1946/50 | 1954  | —/— | 1954 | —/— |
| 1100                            |                         |           |      | 706       |           |         |      |         |       |     |      |     |
| 1080                            |                         | 706       |      | 705       |           |         |      |         |       |     |      |     |
| 1060                            |                         | 705       |      | 705       |           |         |      |         |       |     |      |     |
| 1040                            |                         | 705       |      | 705       |           |         |      |         |       |     |      |     |
| 1020                            |                         | 705       |      | 705       |           |         |      |         |       |     |      |     |
| 1000                            |                         | 705       |      | 705       |           |         |      |         |       |     |      |     |
| 980                             |                         | 705       |      | 705       |           |         |      |         |       |     |      |     |
| 960                             |                         | 705       |      | 705       |           |         |      |         |       |     |      |     |
| 940                             |                         | 705       |      | 704       |           |         |      |         |       |     |      |     |
| 920                             |                         | 705       |      | 704       |           |         |      |         |       |     |      |     |
| 900                             |                         | 705       | 705  | 703       |           |         |      |         |       |     |      |     |
| 880                             |                         | 704       | 703  | 702       |           |         | 705  | 706     |       |     |      | 705 |
| 860                             |                         | 704       | 703  | 701       |           |         | 703  | 705     |       |     |      | 704 |
| 840                             |                         | 704       | 702  | 697       |           |         | 703  | 705     |       |     |      | 703 |
| 820                             |                         | 704       | 700  | 688       |           |         | 702  | 701     |       |     |      | 702 |
| 800                             |                         | 704       | 693  | 678       |           |         | 699  | 697     |       |     |      | 702 |
| 780                             |                         | 704       | 671  | 652       |           |         | 689  | 689     |       |     |      | 698 |
| 760                             |                         | 703       | 630  | 602       |           |         | 670  | 668     |       |     |      | 684 |
| 740                             |                         | 702       | 523  | 487       |           |         | 615  | 624     |       |     |      | 660 |
| 720                             |                         | 702       | 377  | 308       |           |         | 508  | 528     |       |     |      | 581 |
| 700                             |                         | 701       | 245  | 184       |           |         | 374  | 364     |       |     |      | 454 |
| 680                             |                         | 699       | 136  | 93        |           |         | 237  | 188     |       |     |      | 308 |
| 660                             |                         | 696       | 81   | 46        |           |         | 705  | 123     |       |     |      | 173 |
| 640                             |                         | 694       | 45   | 27        |           |         | 704  | 72      |       |     |      | 90  |
| 620                             |                         | 692       | 29   | 16        | 705       | 703     | 37   | 30      |       |     |      | 52  |
| 600                             | 705                     | 688       | 10   | 11        | 704       | 703     | 24   | 20      | 705   |     |      | 31  |
| 580                             | 703                     | 683       | 3    | 7         | 704       | 702     | 7    | 12      | 704   |     |      | 16  |
| 560                             | 703                     | 678       | 1    | 4         | 703       | 700     | 2    | 8       | 703   |     |      | 5   |
| 540                             | 703                     | 671       |      | 2         | 703       | 699     |      | 4       | 703   |     |      | 1   |
| 520                             | 703                     | 662       |      | 1         | 703       | 695     |      | 3       | 703   |     |      |     |
| 500                             | 702                     | 646       |      | 0,2       | 701       | 691     |      | 1       | 701   |     |      |     |
| 480                             | 696                     | 627       |      | 0,2       | 697       | 682     |      | 0,1     | 699   |     |      |     |
| 460                             | 687                     | 602       |      |           | 693       | 666     |      | 0,1     | 695   |     |      |     |
| 440                             | 671                     | 570       |      |           | 679       | 650     |      | 0,1     | 687   |     |      |     |
| 420                             | 635                     | 523       |      |           | 653       | 616     |      |         | 668   |     |      |     |
| 400                             | 557                     | 448       |      |           | 575       | 549     |      |         | 630   |     |      |     |
| 380                             | 440                     | 323       |      |           | 420       | 398     |      |         | 524   |     |      |     |
| 360                             | 296                     | 134       |      |           | 237       | 168     |      |         | 350   |     |      |     |
| 340                             | 123                     | 30        |      |           | 78        | 44      |      |         | 133   |     |      |     |
| 320                             | 43                      | 7         |      |           | 34        | 14      |      |         | 51    |     |      |     |
| 300                             | 9                       | 2         |      |           | 5         | 5       |      |         | 17    |     |      |     |
| 280                             | 1                       | 1         |      |           | 2         | 3       |      |         | 3     |     |      |     |
| 260                             |                         | 0,4       |      |           |           | 1       |      |         |       |     |      |     |
| 240                             |                         | 0,2       |      |           |           | 0,1     |      |         |       |     |      |     |
| 220                             |                         |           |      |           |           |         |      |         |       |     |      |     |
| 200                             |                         |           |      |           |           |         |      |         |       |     |      |     |
| 180                             |                         |           |      |           |           |         |      |         |       |     |      |     |
| 160                             |                         |           |      |           |           |         |      |         |       |     |      |     |
| 140                             |                         |           |      |           |           |         |      |         |       |     |      |     |

\*) ohne 1945.

## Dauerzahlen der Wasserstände

Unterschreitungsanzahl

| Pegel | Brake |     |      |     | Bremerhaven, Doppelschleuse |         |      |         | Drielake |     |      |     |
|-------|-------|-----|------|-----|-----------------------------|---------|------|---------|----------|-----|------|-----|
|       | Tnw   |     | Thw  |     | Tnw                         |         | Thw  |         | Tnw      |     | Thw  |     |
|       | 1954  | —/— | 1954 | —/— | 1954                        | 1941/50 | 1954 | 1941/50 | 1954     | —/— | 1954 | —/— |
| 1060  |       |     |      |     |                             |         |      |         |          |     |      |     |
| 1040  |       |     |      |     |                             |         |      |         |          |     |      |     |
| 1020  |       |     |      |     |                             |         |      |         |          |     |      |     |
| 1000  |       |     |      |     |                             |         |      |         |          |     |      |     |
| 980   |       |     |      |     |                             |         |      |         |          |     |      |     |
| 960   |       |     |      |     |                             |         |      |         |          |     |      |     |
| 940   |       |     |      |     |                             |         |      |         |          |     |      |     |
| 920   |       |     |      |     |                             |         |      |         |          |     |      |     |
| 900   |       |     |      |     |                             |         |      | 706     |          |     |      |     |
| 880   |       |     | 705  |     |                             |         |      | 705     |          |     |      |     |
| 860   |       |     | 704  |     |                             |         |      | 704     |          |     |      |     |
| 840   |       |     | 703  |     |                             |         |      | 703     |          |     |      | 705 |
| 820   |       |     | 703  |     |                             |         |      | 703     |          |     |      | 703 |
| 800   |       |     | 702  |     |                             |         |      | 702     |          |     |      | 699 |
| 780   |       |     | 699  |     |                             |         |      | 700     |          |     |      | 690 |
| 760   |       |     | 689  |     |                             |         |      | 697     |          |     |      | 664 |
| 740   |       |     | 677  |     |                             |         |      | 686     |          |     |      | 613 |
| 720   |       |     | 629  |     |                             |         |      | 668     |          |     |      | 526 |
| 700   |       |     | 524  |     |                             |         |      | 613     |          |     |      | 394 |
| 680   |       |     | 372  |     |                             |         |      | 504     |          |     |      | 255 |
| 660   |       |     | 229  |     |                             |         |      | 362     |          |     |      | 129 |
| 640   |       |     | 118  |     |                             |         |      | 221     |          |     | 705  | 77  |
| 620   |       |     | 70   |     | 706                         |         |      | 110     |          | 704 |      | 48  |
| 600   | 706   |     | 37   |     | 704                         | 706     |      | 64      | 41       | 704 |      | 34  |
| 580   | 704   |     | 20   |     | 704                         | 705     |      | 31      | 22       | 701 |      | 21  |
| 560   | 704   |     | 4    |     | 704                         | 705     |      | 16      | 11       | 697 |      | 11  |
| 540   | 704   |     | 2    |     | 704                         | 704     |      | 4       | 6        | 684 |      | 2   |
| 520   | 704   |     |      |     | 704                         | 704     |      | 1       | 3        | 651 |      |     |
| 500   | 703   |     |      |     | 702                         | 702     |      |         | 1        | 599 |      |     |
| 480   | 699   |     |      |     | 698                         | 700     |      |         | 1        | 510 |      |     |
| 460   | 697   |     |      |     | 697                         | 696     |      |         |          | 380 |      |     |
| 440   | 693   |     |      |     | 694                         | 690     |      |         |          | 198 |      |     |
| 420   | 683   |     |      |     | 682                         | 680     |      |         |          | 43  |      |     |
| 400   | 664   |     |      |     | 671                         | 665     |      |         |          | 2   |      |     |
| 380   | 628   |     |      |     | 646                         | 639     |      |         |          |     |      |     |
| 360   | 526   |     |      |     | 597                         | 591     |      |         |          |     |      |     |
| 340   | 363   |     |      |     | 516                         | 514     |      |         |          |     |      |     |
| 320   | 166   |     |      |     | 394                         | 390     |      |         |          |     |      |     |
| 300   | 50    |     |      |     | 236                         | 217     |      |         |          |     |      |     |
| 280   | 20    |     |      |     | 95                          | 91      |      |         |          |     |      |     |
| 260   | 5     |     |      |     | 35                          | 29      |      |         |          |     |      |     |
| 240   | 1     |     |      |     | 16                          | 13      |      |         |          |     |      |     |
| 220   |       |     |      |     | 5                           | 6       |      |         |          |     |      |     |
| 200   |       |     |      |     | 1                           | 3       |      |         |          |     |      |     |
| 180   |       |     |      |     |                             | 2       |      |         |          |     |      |     |
| 160   |       |     |      |     |                             | 1       |      |         |          |     |      |     |
| 140   |       |     |      |     |                             |         |      |         |          |     |      |     |

# Abflüsse, Abflußspenden und Abflußdauer



Main data table with columns for months (Nov, Dez, Jan, Febr, März, April, Mai, Juni, Juli, Aug, Sept, Okt) and days (Tag). It contains two sections: 'Weser Pegel: Hann.-Münden' and 'Weser Pegel: Sieburg'. Each section lists daily discharge values in m³/s.

Summary table titled 'Hauptzahlen' (Main Numbers). It provides annual totals for discharge (Abflüsse) and discharge per km² (Spenden) for the years 1954 and 1941/1950. It includes sub-tables for 'Abflüsse (m³/s)' and 'Spenden (l/s km²)'.

Summary table titled 'Äußerste Abflüsse (m³/s) und Abflußpenden (l/s km²)' (Outermost Discharges and Discharge per km²). It compares the highest recorded discharges and discharge rates for 1954 and 1941/1950, including specific dates and values.

Eisverhältnisse 1954: Eisbewegung an 6 Tagen, Eisstand an 6 Tagen, Grundeis an 2 Tagen, Randeis an 27 Tagen.
\*) Vor 1915, dem Beginn des Einflusses der Eder- und Diemelstalsperre NNQ = 13,9 m³/s am 21. August 1911.

Weser

Pegel: Karlshafen

45,25 km unterhalb der Vereinigung Werra-Fulda  
 PN = NN + 93,14 m. FN = 14 723 km<sup>3</sup>  
 nach 12-Uhr-Ablesungen [s. S. 15]

| Tag                                 | Nov                 | Dez               | Jan               | Febr                | März   | April | Mai                   | Juni   | Juli   | Aug  | Sept | Okt |
|-------------------------------------|---------------------|-------------------|-------------------|---------------------|--------|-------|-----------------------|--------|--------|------|------|-----|
| <b>Tageswerte (m<sup>3</sup>/s)</b> |                     |                   |                   |                     |        |       |                       |        |        |      |      |     |
| 1.                                  | 47,5                | 34,9              | 39,7              | 45,0 <sup>†</sup>   | 123    | 79,6  | 60,1                  | 61,7   | 52,2   | 65,5 | 72,8 | 138 |
| 2.                                  | 54,3                | 32,8              | 35,4              | 42,4                | 150    | 86,6  | 58,6                  | 64,7   | 51,5   | 65,5 | 67,9 | 181 |
| 3.                                  | 44,3                | 30,0              | 35,4              | 38,3                | 102    | 98,0  | 60,1                  | 65,5   | 52,2   | 60,9 | 67,1 | 233 |
| 4.                                  | 39,1                | 32,8              | 32,3              | 40,7                | 81,3   | 122   | 59,4                  | 57,8   | 49,5   | 58,6 | 95,1 | 198 |
| 5.                                  | 40,3                | 33,3              | 34,9              | 40,7                | 64,7   | 148   | 61,7                  | 56,4   | 53,6   | 59,4 | 77,1 | 176 |
| 6.                                  | 38,6                | 33,3              | 37,0 <sup>†</sup> | 38,9                | 88,4   | 136   | 58,6                  | 54,3   | 52,2   | 60,9 | 82,2 | 202 |
| 7.                                  | 38,0                | 30,5              | 33,3 <sup>†</sup> | 41,2                | 80,5   | 141   | 60,9                  | 53,6   | 50,8   | 73,7 | 72,8 | 261 |
| 8.                                  | 37,0                | 32,3              | 28,6 <sup>†</sup> | 39,5                | 67,1   | 133   | 55,7                  | 53,6   | 52,2   | 64,7 | 77,9 | 300 |
| 9.                                  | 37,5                | 29,5              | 29,5 <sup>†</sup> | 41,8                | 63,9   | 124   | 55,7                  | 55,7   | 50,8   | 63,9 | 111  | 290 |
| 10.                                 | 37,0                | 30,9              | 31,4 <sup>†</sup> | 41,8                | 59,4   | 113   | 53,6                  | 56,4   | 49,5   | 71,2 | 100  | 235 |
| 11.                                 | 38,6                | 34,4              | 32,3 <sup>†</sup> | 43,0                | 57,8   | 103   | 54,3                  | 56,4   | 48,2   | 60,9 | 88,4 | 208 |
| 12.                                 | 37,0                | 31,4              | 40,3 <sup>†</sup> | 43,7                | 55,7   | 94,1  | 55,0                  | 52,2   | 62,4   | 85,8 | 79,6 | 184 |
| 13.                                 | 37,5                | 30,9              | 63,2 <sup>†</sup> | 44,3                | 60,1   | 86,6  | 52,9                  | 54,3   | 69,6   | 69,6 | 86,6 | 165 |
| 14.                                 | 37,0                | 30,5              | 66,3              | 46,9                | 58,6   | 82,2  | 52,2                  | 57,1   | 72,0   | 62,4 | 84,9 | 150 |
| 15.                                 | 35,4                | 31,9              | 37,1              | 52,2                | 57,1   | 79,6  | 55,0                  | 54,3   | 60,9   | 67,9 | 86,6 | 139 |
| 16.                                 | 34,9                | 32,3              | 98,3              | 46,9                | 58,6   | 81,3  | 54,3                  | 52,9   | 61,9   | 69,6 | 78,8 | 129 |
| 17.                                 | 38,6                | 28,6              | 133               | 42,7                | 57,8   | 81,3  | 53,6                  | 56,4   | 62,4   | 69,6 | 83,1 | 122 |
| 18.                                 | 32,8                | 31,9              | 103               | 40,7                | 57,1   | 79,6  | 55,0                  | 53,6   | 69,6   | 63,9 | 102  | 113 |
| 19.                                 | 34,4                | 28,1              | 122               | 38,3                | 59,4   | 81,3  | 56,0                  | 54,3   | 74,5   | 69,6 | 112  | 111 |
| 20.                                 | 36,4                | 30,9              | 104               | 36,6                | 62,4   | 79,6  | 57,1                  | 50,8   | 92,2   | 63,9 | 118  | 105 |
| 21.                                 | 36,4                | 30,9              | 121               | 35,0                | 65,5   | 79,6  | 60,1                  | 51,5   | 102    | 55,7 | 103  | 103 |
| 22.                                 | 33,8                | 30,0              | 145               | 34,5                | 69,6   | 79,6  | 57,8                  | 57,1   | 88,4   | 64,7 | 119  | 116 |
| 23.                                 | 32,8                | 32,8              | 203               | 35,5                | 76,2   | 88,4  | 61,7                  | 52,9   | 77,9   | 84,0 | 95,1 | 112 |
| 24.                                 | 35,9                | 31,9              | 132               | 41,8                | 78,8   | 88,4  | 59,4                  | 50,1   | 70,4   | 103  | 90,2 | 104 |
| 25.                                 | 34,9                | 30,5              | 108               | 40,7                | 79,6   | 81,3  | 56,4                  | 50,8   | 61,7   | 92,2 | 86,6 | 107 |
| 26.                                 | 34,9                | 33,3              | 83,1 <sup>†</sup> | 47,5                | 82,2   | 72,8  | 55,7                  | 52,9   | 73,7   | 88,4 | 79,6 | 115 |
| 27.                                 | 33,3                | 33,3              | 60,1 <sup>†</sup> | 120                 | 99,0   | 72,0  | 52,2                  | 50,1   | 93,2   | 83,1 | 83,1 | 127 |
| 28.                                 | 34,4                | 40,3              | 44,8 <sup>†</sup> | 176                 | 100    | 67,9  | 53,6                  | 53,6   | 86,6   | 89,3 | 105  | 124 |
| 29.                                 | 31,4                | 44,3              | 42,6 <sup>†</sup> | 99,0                | 64,7   | 54,3  | 52,9                  | 96,1   | 80,5   | 126  | 115  | 115 |
| 30.                                 | 33,8                | 46,3              | 48,8 <sup>†</sup> | 90,2                | 61,7   | 57,1  | 50,8                  | 82,2   | 71,2   | 122  | 118  | 118 |
| 31.                                 | 40,3                | 45,6 <sup>†</sup> |                   | 82,2                |        |       | 70,4                  |        | 76,2   | 67,9 |      | 114 |
| Σ                                   | 1117,8              | 2231,0            |                   | 1376,6              | 2786,2 |       | 1768,5                | 2096,6 | 2207,5 | 4895 |      |     |
|                                     | Wi: n 181; ro 944,9 |                   |                   | So: n 184; 15 965,8 |        |       | Jahr: n 365; 26 310,7 |        |        |      |      |     |

Hauptzahlen

|                                   | Nov  | Dez  | Jan  | Febr | März | Apr  | Mai  | Juni | Juli | Aug  | Sept | Okt  | Wi   | So   | Jahr |
|-----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| <b>Abflüsse (m<sup>3</sup>/s)</b> |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| <b>1954</b>                       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| am                                | 29.  | 19.  | 8.   | 22.  | 12.  | 30.  | 14.  | 24.  | 11.  | 21.  | 3.   | 21.  |      |      |      |
| NQ                                | 31,4 | 28,1 | 28,6 | 34,5 | 55,7 | 61,7 | 52,2 | 50,1 | 48,2 | 55,7 | 67,1 | 103  | 28,1 | 48,2 | 28,1 |
| MQ                                | 37,3 | 33,1 | 72,6 | 49,2 | 77,0 | 92,9 | 57,0 | 54,8 | 67,6 | 71,2 | 91,8 | 158  | 60,5 | 83,5 | 72,1 |
| HQ                                | 54,3 | 46,3 | 203  | 176  | 150  | 148  | 70,4 | 65,5 | 102  | 103  | 126  | 300  | 203  | 300  | 300  |
| am                                | 2.   | 30.  | 23.  | 28.  | 2.   | 5.   | 31.  | 3.   | 21.  | 24.  | 29.  | 8.   |      |      |      |
| <b>1941/1950</b>                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| NQ                                | 21,0 | 32,6 | 31,0 | 43,7 | 50,7 | 67,0 | 50,0 | 45,8 | 31,5 | 25,9 | 24,9 | 22,4 | 21,0 | 22,4 | 21,0 |
| MNQ                               | 61,6 | 68,2 | 76,2 | 87,3 | 94,4 | 84,0 | 63,8 | 56,8 | 53,0 | 51,2 | 50,7 | 47,4 | 45,8 | 43,0 | 37,3 |
| MQ                                | 128  | 145  | 159  | 264  | 213  | 153  | 92,5 | 85,6 | 78,4 | 77,1 | 65,9 | 76,0 | 176  | 79,2 | 127  |
| MHQ                               | 312  | 335  | 325  | 545  | 501  | 297  | 168  | 162  | 145  | 146  | 92,6 | 127  | 875  | 239  | 875  |
| HQ                                | 1167 | 889  | 978  | 1868 | 1350 | 557  | 434  | 458  | 393  | 349  | 182  | 430  | 1868 | 458  | 1868 |

Spenden (l/s km<sup>2</sup>):

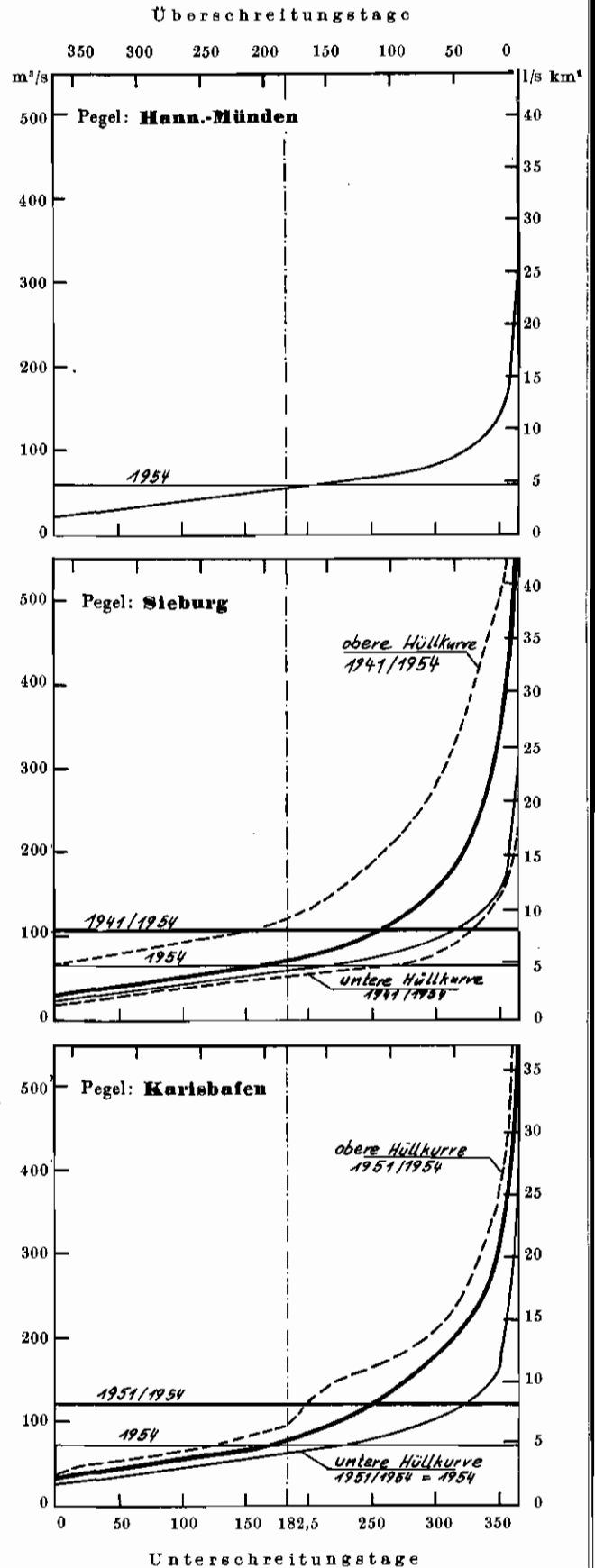
|    | 1954 |      |      | 1941/1950 |      |      |
|----|------|------|------|-----------|------|------|
|    | Wi   | So   | Jahr | Wi        | So   | Jahr |
| Nq | 1,90 | 3,26 | 1,90 | 3,10      | 2,91 | 2,52 |
| Mq | 4,09 | 5,64 | 4,87 | 11,9      | 5,35 | 8,59 |
| Hq | 13,7 | 20,3 | 20,3 | 59,1      | 16,2 | 59,1 |
|    |      |      |      |           |      | MNQ  |
|    |      |      |      |           |      | Mq   |
|    |      |      |      |           |      | MHQ  |

Äußerste Abflüsse (m<sup>3</sup>/s) und Abflußspenden (l/s km<sup>2</sup>)

|           | NQ   | Nq   | HQ                  | Hq            |
|-----------|------|------|---------------------|---------------|
| 1954      | 28,1 | 1,90 | 300 = 407 cm a P    | 20,3          |
| 1941/1950 | 21,0 | 1,42 | 1868 = 846 cm a P   | 126           |
|           |      |      |                     | 8. Okt        |
|           |      |      |                     | 10. 2. 1946   |
|           | NNQ  | NNq  | HHQ                 | HHq           |
| seit 1941 | 21,0 | 1,42 | 1868*) = 846 cm a P | 126           |
|           |      |      |                     | 10. Febr 1946 |

Eisverhältnisse 1954: Randeis an 10 Tagen, Randeis und Eisbewegung an 12 Tagen, Eisstand und Eisversetzung an 18 Tagen.  
 \*) Durch Talsperrebruch am 18. Mai 1943 = 1948 m<sup>3</sup>/s.

Dauerlinien und Jahresmittel der Abflüsse und Abflußspenden



| Weser   |      |                 |      |      |       |             |                 |      |      | Pegel: Bodenwerder |      |   |      |      |      |                 |      |                 |      | Weser   |      |      |      |                       |      |                 |      |      |      | Pegel: Hameln |      |      |      |      |      |                     |      |      |      |      |      |       |      |      |      |      |      |                     |      |      |      |      |      |      |      |     |      |      |      |                       |      |      |     |     |      |      |      |      |      |     |      |      |      |      |     |     |    |      |      |      |      |      |     |      |      |      |      |      |     |    |      |      |      |      |     |     |      |      |      |      |      |     |    |      |      |      |      |      |     |      |      |      |      |      |     |    |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |      |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |      |      |      |      |      |      |     |     |      |      |     |      |      |      |      |      |      |      |      |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |     |     |     |     |      |      |     |      |      |     |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |     |     |     |     |      |      |      |      |     |      |      |      |     |     |     |     |     |      |      |      |     |     |      |      |      |     |     |     |     |     |      |      |      |  |  |     |      |      |      |     |     |     |     |     |      |      |      |  |  |     |      |      |      |     |      |     |     |     |      |      |  |  |  |  |     |      |  |     |      |  |     |   |        |        |        |        |        |        |        |      |        |        |        |        |        |        |        |        |        |        |        |        |        |      |        |        |        |        |        |        |
|---|------|-----------------|------|------|-------|-------------|-----------------|------|------|--------------------|------|---|------|------|------|-----------------|------|-----------------|------|---|------|------|------|-----------------------|------|-----------------|------|------|------|---------------|------|------|------|------|------|---------------------|------|------|------|------|------|-------|------|------|------|------|------|---------------------|------|------|------|------|------|------|------|-----|------|------|------|-----------------------|------|------|-----|-----|------|------|------|------|------|-----|------|------|------|------|-----|-----|----|------|------|------|------|------|-----|------|------|------|------|------|-----|----|------|------|------|------|-----|-----|------|------|------|------|------|-----|----|------|------|------|------|------|-----|------|------|------|------|------|-----|----|------|------|------|------|------|-----|------|------|------|------|-----|-----|-----|------|------|------|------|------|-----|------|------|------|------|-----|-----|-----|------|------|------|------|------|-----|------|------|------|------|-----|-----|-----|------|------|------|------|------|-----|------|------|------|------|------|-----|-----|------|------|------|------|------|-----|------|------|------|------|-----|-----|-----|------|------|-----|------|------|-----|------|------|------|------|-----|-----|-----|------|------|-----|------|------|-----|------|------|------|------|-----|-----|-----|------|------|-----|------|------|------|------|------|------|------|------|-----|-----|------|------|-----|------|------|------|------|------|------|------|------|-----|-----|------|------|-----|------|------|------|------|------|-----|------|-----|-----|-----|------|------|-----|------|------|------|------|------|-----|------|-----|-----|-----|------|------|-----|------|------|------|------|------|-----|------|-----|-----|-----|------|------|-----|------|------|------|------|------|-----|------|-----|-----|-----|------|------|-----|------|------|------|------|------|-----|------|-----|-----|-----|------|------|-----|------|------|------|------|------|-----|-----|-----|-----|-----|------|------|-----|------|------|-----|------|------|------|-----|-----|-----|-----|------|------|-----|------|------|------|------|------|------|-----|-----|-----|-----|------|------|-----|------|------|------|------|------|------|-----|-----|-----|-----|------|------|------|------|-----|------|------|------|-----|-----|-----|-----|-----|------|------|------|-----|-----|------|------|------|-----|-----|-----|-----|-----|------|------|------|--|--|-----|------|------|------|-----|-----|-----|-----|-----|------|------|------|--|--|-----|------|------|------|-----|------|-----|-----|-----|------|------|--|--|--|--|-----|------|--|-----|------|--|-----|---|--------|--------|--------|--------|--------|--------|--------|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|--------|--------|--------|--------|--------|--------|
| 110,7 km unterhalb der Vereinigung Werra-Fulda<br>PN = NN + 69,37 m. FN = 15 929 km <sup>2</sup><br>ab Mai nach mittleren Tageswasserständen,<br>bis April 12-Uhr-Ablesungen [s. S. 16] |      |                 |      |      |       |             |                 |      |      |                    |      |   |      |      |      |                 |      |                 |      | 135,6 km unterhalb der Vereinigung Werra-Fulda<br>PN = NN + 59,32 m a. S. FN = 17 077 km <sup>2</sup><br>nach mittleren Tageswasserständen [s. S. 16] |      |      |      |                       |      |                 |      |      |      |               |      |      |      |      |      |                     |      |      |      |      |      |       |      |      |      |      |      |                     |      |      |      |      |      |      |      |     |      |      |      |                       |      |      |     |     |      |      |      |      |      |     |      |      |      |      |     |     |    |      |      |      |      |      |     |      |      |      |      |      |     |    |      |      |      |      |     |     |      |      |      |      |      |     |    |      |      |      |      |      |     |      |      |      |      |      |     |    |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |      |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |      |      |      |      |      |      |     |     |      |      |     |      |      |      |      |      |      |      |      |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |     |     |     |     |      |      |     |      |      |     |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |     |     |     |     |      |      |      |      |     |      |      |      |     |     |     |     |     |      |      |      |     |     |      |      |      |     |     |     |     |     |      |      |      |  |  |     |      |      |      |     |     |     |     |     |      |      |      |  |  |     |      |      |      |     |      |     |     |     |      |      |  |  |  |  |     |      |  |     |      |  |     |   |        |        |        |        |        |        |        |      |        |        |        |        |        |        |        |        |        |        |        |        |        |      |        |        |        |        |        |        |
| Nov   | Dez  | Jan             | Febr | März | April | Mai         | Juni            | Juli | Aug  | Sept               | Okt  | Tag   | Nov  | Dez  | Jan  | Febr            | März | April           | Mai  | Juni  | Juli | Aug  | Sept | Okt                   | Nov  | Dez             | Jan  | Febr | März | April         | Mai  | Juni | Juli | Aug  | Sept | Okt                 | Nov  | Dez  | Jan  | Febr | März | April | Mai  | Juni | Juli | Aug  | Sept | Okt                 |      |      |      |      |      |      |      |     |      |      |      |                       |      |      |     |     |      |      |      |      |      |     |      |      |      |      |     |     |    |      |      |      |      |      |     |      |      |      |      |      |     |    |      |      |      |      |     |     |      |      |      |      |      |     |    |      |      |      |      |      |     |      |      |      |      |      |     |    |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |      |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |      |      |      |      |      |      |     |     |      |      |     |      |      |      |      |      |      |      |      |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |     |     |     |     |      |      |     |      |      |     |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |     |     |     |     |      |      |      |      |     |      |      |      |     |     |     |     |     |      |      |      |     |     |      |      |      |     |     |     |     |     |      |      |      |  |  |     |      |      |      |     |     |     |     |     |      |      |      |  |  |     |      |      |      |     |      |     |     |     |      |      |  |  |  |  |     |      |  |     |      |  |     |   |        |        |        |        |        |        |        |      |        |        |        |        |        |        |        |        |        |        |        |        |        |      |        |        |        |        |        |        |
| <b>Tageswerte (m<sup>3</sup>/s)</b>   |      |                 |      |      |       |             |                 |      |      |                    |      |   |      |      |      |                 |      |                 |      |   |      |      |      |                       |      |                 |      |      |      |               |      |      |      |      |      |                     |      |      |      |      |      |       |      |      |      |      |      |                     |      |      |      |      |      |      |      |     |      |      |      |                       |      |      |     |     |      |      |      |      |      |     |      |      |      |      |     |     |    |      |      |      |      |      |     |      |      |      |      |      |     |    |      |      |      |      |     |     |      |      |      |      |      |     |    |      |      |      |      |      |     |      |      |      |      |      |     |    |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |      |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |      |      |      |      |      |      |     |     |      |      |     |      |      |      |      |      |      |      |      |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |     |     |     |     |      |      |     |      |      |     |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |     |     |     |     |      |      |      |      |     |      |      |      |     |     |     |     |     |      |      |      |     |     |      |      |      |     |     |     |     |     |      |      |      |  |  |     |      |      |      |     |     |     |     |     |      |      |      |  |  |     |      |      |      |     |      |     |     |     |      |      |  |  |  |  |     |      |  |     |      |  |     |   |        |        |        |        |        |        |        |      |        |        |        |        |        |        |        |        |        |        |        |        |        |      |        |        |        |        |        |        |
| 52,6  | 35,7 | 46,7            | 39,9 | 162  | 88,8  | 67,5        | 69,8            | 55,4 | 89,7 | 83,6               | 137  | 1.  | 56,5 | 42,5 | 53,8 | 46,7            | 200  | 104             | 72,5 | 74,9  | 62,9 | 107  | 91,3 | 154                   | 2.   | 60,1            | 43,6 | 51,1 | 46,1 | 161           | 105  | 71,8 | 72,5 | 63,6 | 96,1 | 91,3                | 182  | 3.   | 62,2 | 42,5 | 49,2 | 44,8  | 160  | 112  | 70,3 | 71,8 | 63,6 | 88,9                | 86,5 | 237  | 4.   | 55,2 | 42,5 | 48,6 | 44,8 | 139 | 131  | 73,3 | 71,0 | 63,6                  | 83,4 | 92,1 | 233 | 5.  | 52,5 | 41,4 | 46,1 | 51,8 | 105  | 150 | 74,1 | 67,3 | 63,6 | 79,5 | 105 | 205 | 6. | 51,8 | 41,9 | 40,2 | 56,5 | 97,6 | 156 | 74,1 | 65,8 | 63,6 | 78,7 | 99,2 | 236 | 7. | 49,8 | 41,9 | 41,4 | 59,3 | 116 | 149 | 73,3 | 64,3 | 62,2 | 84,9 | 94,5 | 340 | 8. | 49,2 | 41,9 | 41,9 | 60,1 | 97,6 | 147 | 72,5 | 64,3 | 62,2 | 89,7 | 91,3 | 335 | 9. | 47,9 | 42,5 | 37,5 | 57,9 | 87,3 | 140 | 58,0 | 65,1 | 62,2 | 84,2 | 111 | 333 | 10. | 47,9 | 42,5 | 39,1 | 57,9 | 82,6 | 133 | 68,0 | 65,1 | 62,2 | 82,6 | 116 | 294 | 11. | 48,6 | 42,5 | 42,5 | 62,2 | 77,9 | 120 | 67,3 | 66,6 | 62,2 | 84,2 | 106 | 246 | 12. | 48,6 | 43,0 | 50,5 | 63,6 | 77,2 | 113 | 68,0 | 65,1 | 73,3 | 79,5 | 98,4 | 222 | 13. | 47,9 | 42,5 | 88,9 | 68,8 | 76,4 | 106 | 67,3 | 63,6 | 88,9 | 92,1 | 101 | 200 | 14. | 48,6 | 40,8 | 105 | 74,9 | 74,9 | 102 | 66,6 | 64,3 | 96,1 | 91,3 | 105 | 183 | 15. | 47,9 | 40,2 | 102 | 75,6 | 74,1 | 100 | 65,8 | 67,3 | 90,5 | 90,5 | 102 | 169 | 16. | 48,6 | 41,9 | 126 | 74,1 | 74,1 | 99,2 | 65,8 | 65,1 | 84,2 | 92,9 | 98,4 | 157 | 17. | 49,2 | 41,9 | 134 | 72,5 | 74,1 | 97,6 | 63,6 | 65,1 | 84,9 | 92,1 | 96,1 | 148 | 18. | 49,2 | 40,2 | 168 | 68,0 | 74,1 | 96,1 | 61,5 | 66,6 | 103 | 90,5 | 105 | 140 | 19. | 46,1 | 41,4 | 165 | 65,1 | 74,9 | 96,1 | 62,2 | 65,1 | 138 | 86,5 | 114 | 140 | 20. | 46,1 | 39,1 | 141 | 62,9 | 77,9 | 96,1 | 64,3 | 64,3 | 125 | 84,9 | 122 | 149 | 21. | 47,3 | 40,2 | 136 | 60,8 | 77,9 | 93,7 | 68,0 | 62,9 | 123 | 81,0 | 123 | 137 | 22. | 46,7 | 41,9 | 149 | 57,2 | 81,8 | 93,7 | 70,3 | 62,9 | 117 | 79,5 | 119 | 133 | 23. | 44,8 | 39,7 | 180 | 54,5 | 86,5 | 95,3 | 68,0 | 62,9 | 105 | 105 | 123 | 137 | 24. | 44,2 | 41,4 | 184 | 56,5 | 91,3 | 100 | 66,6 | 60,8 | 93,7 | 132 | 111 | 135 | 25. | 45,5 | 41,9 | 141 | 57,2 | 92,9 | 96,1 | 67,3 | 60,8 | 86,5 | 123 | 106 | 134 | 26. | 45,5 | 41,9 | 113 | 64,3 | 95,3 | 89,7 | 65,8 | 62,9 | 98,4 | 118 | 101 | 139 | 27. | 44,8 | 43,6 | 88,9 | 76,4 | 107 | 84,9 | 65,1 | 64,3 | 141 | 109 | 103 | 149 | 28. | 44,2 | 51,1 | 69,5 | 139 | 114 | 81,8 | 63,6 | 65,1 | 131 | 105 | 107 | 169 | 29. | 44,8 | 57,2 | 62,2 |  |  | 113 | 78,7 | 63,6 | 65,1 | 120 | 101 | 125 | 158 | 30. | 43,0 | 60,8 | 55,8 |  |  | 110 | 77,2 | 65,8 | 62,9 | 126 | 96,9 | 142 | 149 | 31. | 57,2 | 52,5 |  |  |  |  | 105 | 72,5 |  | 120 | 92,9 |  | 148 | Σ | 1464,7 | 2803,7 | 1779,5 | 3244,2 | 2106,9 | 2837,4 | 2902,8 | 5891 | 1464,7 | 1353,6 | 1779,5 | 3076,4 | 1965,8 | 3186,1 | 1464,7 | 2803,7 | 1779,5 | 3244,2 | 2106,9 | 2837,4 | 2902,8 | 5891 | 1464,7 | 1353,6 | 1779,5 | 3076,4 | 1965,8 | 3186,1 |
| Wi: n 181; 12 184,1   |      |                 |      |      |       |             |                 |      |      |                    |      | So: n 184; 17 108,6   |      |      |      |                 |      |                 |      |   |      |      |      | Jahr: n 365; 29 292,7 |      |                 |      |      |      |               |      |      |      |      |      | Wi: n 181; 13 722,1 |      |      |      |      |      |       |      |      |      |      |      | So: n 184; 18 890,0 |      |      |      |      |      |      |      |     |      |      |      | Jahr: n 365; 32 612,1 |      |      |     |     |      |      |      |      |      |     |      |      |      |      |     |     |    |      |      |      |      |      |     |      |      |      |      |      |     |    |      |      |      |      |     |     |      |      |      |      |      |     |    |      |      |      |      |      |     |      |      |      |      |      |     |    |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |      |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |      |      |      |      |      |      |     |     |      |      |     |      |      |      |      |      |      |      |      |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |     |     |     |     |      |      |     |      |      |     |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |     |     |     |     |      |      |      |      |     |      |      |      |     |     |     |     |     |      |      |      |     |     |      |      |      |     |     |     |     |     |      |      |      |  |  |     |      |      |      |     |     |     |     |     |      |      |      |  |  |     |      |      |      |     |      |     |     |     |      |      |  |  |  |  |     |      |  |     |      |  |     |   |        |        |        |        |        |        |        |      |        |        |        |        |        |        |        |        |        |        |        |        |        |      |        |        |        |        |        |        |
| <b>Hauptzahlen</b>  |      |                 |      |      |       |             |                 |      |      |                    |      |   |      |      |      |                 |      |                 |      |   |      |      |      |                       |      |                 |      |      |      |               |      |      |      |      |      |                     |      |      |      |      |      |       |      |      |      |      |      |                     |      |      |      |      |      |      |      |     |      |      |      |                       |      |      |     |     |      |      |      |      |      |     |      |      |      |      |     |     |    |      |      |      |      |      |     |      |      |      |      |      |     |    |      |      |      |      |     |     |      |      |      |      |      |     |    |      |      |      |      |      |     |      |      |      |      |      |     |    |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |      |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |      |      |      |      |      |      |     |     |      |      |     |      |      |      |      |      |      |      |      |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |     |     |     |     |      |      |     |      |      |     |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |     |     |     |     |      |      |      |      |     |      |      |      |     |     |     |     |     |      |      |      |     |     |      |      |      |     |     |     |     |     |      |      |      |  |  |     |      |      |      |     |     |     |     |     |      |      |      |  |  |     |      |      |      |     |      |     |     |     |      |      |  |  |  |  |     |      |  |     |      |  |     |   |        |        |        |        |        |        |        |      |        |        |        |        |        |        |        |        |        |        |        |        |        |      |        |        |        |        |        |        |
| 1954  |      |                 |      |      |       |             |                 |      |      |                    |      | 1941/1950   |      |      |      |                 |      |                 |      |   |      |      |      | 1954                  |      |                 |      |      |      |               |      |      |      |      |      | 1941/1950           |      |      |      |      |      |       |      |      |      |      |      |                     |      |      |      |      |      |      |      |     |      |      |      |                       |      |      |     |     |      |      |      |      |      |     |      |      |      |      |     |     |    |      |      |      |      |      |     |      |      |      |      |      |     |    |      |      |      |      |     |     |      |      |      |      |      |     |    |      |      |      |      |      |     |      |      |      |      |      |     |    |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |      |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |      |      |      |      |      |      |     |     |      |      |     |      |      |      |      |      |      |      |      |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |     |     |     |     |      |      |     |      |      |     |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |     |     |     |     |      |      |      |      |     |      |      |      |     |     |     |     |     |      |      |      |     |     |      |      |      |     |     |     |     |     |      |      |      |  |  |     |      |      |      |     |     |     |     |     |      |      |      |  |  |     |      |      |      |     |      |     |     |     |      |      |  |  |  |  |     |      |  |     |      |  |     |   |        |        |        |        |        |        |        |      |        |        |        |        |        |        |        |        |        |        |        |        |        |      |        |        |        |        |        |        |
| 30.   | 20.  | 8.              | 3.   | 4.   | oft   | 30.         | 17.             | 28.  | 5.   | 6.                 | 3.   | 21.   | 25.  | 30.  | 20.  | 9.              | 3.   | 4.              | oft  | 30.   | 18.  | 24.  | oft  | 6.                    | 3.   | 22.             | 30.  | 20.  | 9.   | 3.            | 4.   | oft  | 30.  | 17.  | 28.  | 5.                  | 6.   | 3.   | 21.  | 25.  | 30.  | 20.   | 9.   | 3.   | 4.   | oft  | 30.  | 18.                 | 24.  | oft  | 6.   | 3.   | 22.  |      |      |     |      |      |      |                       |      |      |     |     |      |      |      |      |      |     |      |      |      |      |     |     |    |      |      |      |      |      |     |      |      |      |      |      |     |    |      |      |      |      |     |     |      |      |      |      |      |     |    |      |      |      |      |      |     |      |      |      |      |      |     |    |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |      |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |      |      |      |      |      |      |     |     |      |      |     |      |      |      |      |      |      |      |      |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |     |     |     |     |      |      |     |      |      |     |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |     |     |     |     |      |      |      |      |     |      |      |      |     |     |     |     |     |      |      |      |     |     |      |      |      |     |     |     |     |     |      |      |      |  |  |     |      |      |      |     |     |     |     |     |      |      |      |  |  |     |      |      |      |     |      |     |     |     |      |      |  |  |  |  |     |      |  |     |      |  |     |   |        |        |        |        |        |        |        |      |        |        |        |        |        |        |        |        |        |        |        |        |        |      |        |        |        |        |        |        |
| 35,2  | 32,9 | 33,4            | 37,9 | 64,5 | 71,3  | 56,7        | 54,7            | 54,7 | 68,3 | 78,5               | 121  | 32,9  | 54,7 | 32,9 | 43,0 | 39,1            | 37,5 | 44,8            | 74,1 | 77,2  | 61,5 | 60,8 | 62,2 | 78,7                  | 86,5 | 133             | 37,5 | 60,8 | 37,5 | 48,8          | 43,7 | 90,4 | 63,6 | 99,2 | 108  | 68,0                | 65,5 | 91,5 | 93,6 | 106  | 190  | 75,8  | 103  | 89,3 | 71,8 | 66,6 | 20,5 | 20,4                | 23,4 | 16,3 | 84,9 | 82,6 | 156  | 144  | 152  | 360 | 23,4 | 360  | 360  |                       |      |      |     |     |      |      |      |      |      |     |      |      |      |      |     |     |    |      |      |      |      |      |     |      |      |      |      |      |     |    |      |      |      |      |     |     |      |      |      |      |      |     |    |      |      |      |      |      |     |      |      |      |      |      |     |    |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |      |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |      |      |      |      |      |      |     |     |      |      |     |      |      |      |      |      |      |      |      |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |     |     |     |     |      |      |     |      |      |     |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |     |     |     |     |      |      |      |      |     |      |      |      |     |     |     |     |     |      |      |      |     |     |      |      |      |     |     |     |     |     |      |      |      |  |  |     |      |      |      |     |     |     |     |     |      |      |      |  |  |     |      |      |      |     |      |     |     |     |      |      |  |  |  |  |     |      |  |     |      |  |     |   |        |        |        |        |        |        |        |      |        |        |        |        |        |        |        |        |        |        |        |        |        |      |        |        |        |        |        |        |
| 3.  | 30.  | 23.             | 28.  | 1.   | 6.    | 31.         | 1.              | 21.  | 24.  | 30.                | 9.   | 3.  | 31.  | 23.  | 28.  | 1.              | 6.   | 5.              | 1.   | 27.   | 24.  | 30.  | 7.   | 3.                    | 30.  | 23.             | 28.  | 1.   | 6.   | 31.           | 1.   | 21.  | 24.  | 30.  | 9.   | 3.                  | 31.  | 23.  | 28.  | 1.   | 6.   | 5.    | 1.   | 27.  | 24.  | 30.  | 7.   |                     |      |      |      |      |      |      |      |     |      |      |      |                       |      |      |     |     |      |      |      |      |      |     |      |      |      |      |     |     |    |      |      |      |      |      |     |      |      |      |      |      |     |    |      |      |      |      |     |     |      |      |      |      |      |     |    |      |      |      |      |      |     |      |      |      |      |      |     |    |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |      |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |      |      |      |      |      |      |     |     |      |      |     |      |      |      |      |      |      |      |      |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |     |     |     |     |      |      |     |      |      |     |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |     |     |     |     |      |      |      |      |     |      |      |      |     |     |     |     |     |      |      |      |     |     |      |      |      |     |     |     |     |     |      |      |      |  |  |     |      |      |      |     |     |     |     |     |      |      |      |  |  |     |      |      |      |     |      |     |     |     |      |      |  |  |  |  |     |      |  |     |      |  |     |   |        |        |        |        |        |        |        |      |        |        |        |        |        |        |        |        |        |        |        |        |        |      |        |        |        |        |        |        |
| 23,5  | 37,5 | 42,6            | 48,9 | 67,8 | 77,7  | 60,6        | 54,2            | 36,3 | 32,7 | 24,0               | 23,5 | 23,5  | 23,5 | 30,5 | 39,6 | 36,1            | 52,5 | 64,2            | 86,1 | 69,2  | 60,6 | 42,3 | 38,6 | 34,8                  | 32,6 | 30,5            | 32,6 | 30,5 | 74,4 | 81,8          | 89,6 | 123  | 114  | 104  | 79,9 | 72,0                | 64,9 | 62,5 | 61,0 | 57,2 | 56,2 | 53,9  | 47,6 | 143  | 166  | 184  | 297  | 240                 | 172  | 105  | 97,4 | 89,1 | 87,5 | 73,8 | 86,0 | 199 | 90,1 | 144  | 325  | 359                   | 392  | 583  | 554 | 323 | 167  | 169  | 151  | 150  | 97,9 | 134 | 932  | 245  | 932  |      |     |     |    |      |      |      |      |      |     |      |      |      |      |      |     |    |      |      |      |      |     |     |      |      |      |      |      |     |    |      |      |      |      |      |     |      |      |      |      |      |     |    |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |      |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |      |      |      |      |      |      |     |     |      |      |     |      |      |      |      |      |      |      |      |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |     |     |     |     |      |      |     |      |      |     |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |     |     |     |     |      |      |      |      |     |      |      |      |     |     |     |     |     |      |      |      |     |     |      |      |      |     |     |     |     |     |      |      |      |  |  |     |      |      |      |     |     |     |     |     |      |      |      |  |  |     |      |      |      |     |      |     |     |     |      |      |  |  |  |  |     |      |  |     |      |  |     |   |        |        |        |        |        |        |        |      |        |        |        |        |        |        |        |        |        |        |        |        |        |      |        |        |        |        |        |        |
| 1155  | 916  | 1013            | 1931 | 1582 | 333   | 383         | 455             | 392  | 357  | 186                | 463  | 1931  | 463  | 1931 | 1185 | 885             | 1022 | 1909            | 1572 | 635   | 332  | 430  | 377  | 317                   | 128  | 476             | 1909 | 476  | 1909 | 1155          | 916  | 1013 | 1931 | 1582 | 333  | 383                 | 455  | 392  | 357  | 186  | 463  | 1931  | 463  | 1931 | 1185 | 885  | 1022 | 1909                | 1572 | 635  | 332  | 430  | 377  | 317  | 128  | 476 | 1909 | 476  | 1909 |                       |      |      |     |     |      |      |      |      |      |     |      |      |      |      |     |     |    |      |      |      |      |      |     |      |      |      |      |      |     |    |      |      |      |      |     |     |      |      |      |      |      |     |    |      |      |      |      |      |     |      |      |      |      |      |     |    |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |      |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |      |      |      |      |      |      |     |     |      |      |     |      |      |      |      |      |      |      |      |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |     |     |     |     |      |      |     |      |      |     |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |     |     |     |     |      |      |      |      |     |      |      |      |     |     |     |     |     |      |      |      |     |     |      |      |      |     |     |     |     |     |      |      |      |  |  |     |      |      |      |     |     |     |     |     |      |      |      |  |  |     |      |      |      |     |      |     |     |     |      |      |  |  |  |  |     |      |  |     |      |  |     |   |        |        |        |        |        |        |        |      |        |        |        |        |        |        |        |        |        |        |        |        |        |      |        |        |        |        |        |        |
| <b>Spenden (l/s km<sup>2</sup>):</b>  |      |                 |      |      |       |             |                 |      |      |                    |      | <b>Spenden (l/s km<sup>2</sup>):</b>  |      |      |      |                 |      |                 |      |   |      |      |      |                       |      |                 |      |      |      |               |      |      |      |      |      |                     |      |      |      |      |      |       |      |      |      |      |      |                     |      |      |      |      |      |      |      |     |      |      |      |                       |      |      |     |     |      |      |      |      |      |     |      |      |      |      |     |     |    |      |      |      |      |      |     |      |      |      |      |      |     |    |      |      |      |      |     |     |      |      |      |      |      |     |    |      |      |      |      |      |     |      |      |      |      |      |     |    |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |      |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |      |      |      |      |      |      |     |     |      |      |     |      |      |      |      |      |      |      |      |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |     |     |     |     |      |      |     |      |      |     |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |     |     |     |     |      |      |      |      |     |      |      |      |     |     |     |     |     |      |      |      |     |     |      |      |      |     |     |     |     |     |      |      |      |  |  |     |      |      |      |     |     |     |     |     |      |      |      |  |  |     |      |      |      |     |      |     |     |     |      |      |  |  |  |  |     |      |  |     |      |  |     |   |        |        |        |        |        |        |        |      |        |        |        |        |        |        |        |        |        |        |        |        |        |      |        |        |        |        |        |        |
| 1954  |      |                 |      |      |       | 1941/1950   |                 |      |      |                    |      | 1954  |      |      |      |                 |      | 1941/1950       |      |   |      |      |      |                       |      |                 |      |      |      |               |      |      |      |      |      |                     |      |      |      |      |      |       |      |      |      |      |      |                     |      |      |      |      |      |      |      |     |      |      |      |                       |      |      |     |     |      |      |      |      |      |     |      |      |      |      |     |     |    |      |      |      |      |      |     |      |      |      |      |      |     |    |      |      |      |      |     |     |      |      |      |      |      |     |    |      |      |      |      |      |     |      |      |      |      |      |     |    |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |      |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |      |      |      |      |      |      |     |     |      |      |     |      |      |      |      |      |      |      |      |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |     |     |     |     |      |      |     |      |      |     |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |     |     |     |     |      |      |      |      |     |      |      |      |     |     |     |     |     |      |      |      |     |     |      |      |      |     |     |     |     |     |      |      |      |  |  |     |      |      |      |     |     |     |     |     |      |      |      |  |  |     |      |      |      |     |      |     |     |     |      |      |  |  |  |  |     |      |  |     |      |  |     |   |        |        |        |        |        |        |        |      |        |        |        |        |        |        |        |        |        |        |        |        |        |      |        |        |        |        |        |        |
|   | Wi   | So              | Jahr |      | Wi    | So          | Jahr            |      | Wi   | So                 | Jahr |   | Wi   | So   | Jahr |                 | Wi   | So              | Jahr |   |      |      |      |                       |      |                 |      |      |      |               |      |      |      |      |      |                     |      |      |      |      |      |       |      |      |      |      |      |                     |      |      |      |      |      |      |      |     |      |      |      |                       |      |      |     |     |      |      |      |      |      |     |      |      |      |      |     |     |    |      |      |      |      |      |     |      |      |      |      |      |     |    |      |      |      |      |     |     |      |      |      |      |      |     |    |      |      |      |      |      |     |      |      |      |      |      |     |    |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |      |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |      |      |      |      |      |      |     |     |      |      |     |      |      |      |      |      |      |      |      |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |     |     |     |     |      |      |     |      |      |     |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |     |     |     |     |      |      |      |      |     |      |      |      |     |     |     |     |     |      |      |      |     |     |      |      |      |     |     |     |     |     |      |      |      |  |  |     |      |      |      |     |     |     |     |     |      |      |      |  |  |     |      |      |      |     |      |     |     |     |      |      |  |  |  |  |     |      |  |     |      |  |     |   |        |        |        |        |        |        |        |      |        |        |        |        |        |        |        |        |        |        |        |        |        |      |        |        |        |        |        |        |
| Nq  | 2,07 | 3,43            | 2,07 | 3,24 | 3,02  | 2,49        | MNq             | Nq   | 2,20 | 3,56               | 2,20 | 3,29  | 3,16 | 2,79 | MNq  | Nq              | 2,20 | 3,56            | 2,20 | 3,29  | 3,16 | 2,79 | MNq  |                       |      |                 |      |      |      |               |      |      |      |      |      |                     |      |      |      |      |      |       |      |      |      |      |      |                     |      |      |      |      |      |      |      |     |      |      |      |                       |      |      |     |     |      |      |      |      |      |     |      |      |      |      |     |     |    |      |      |      |      |      |     |      |      |      |      |      |     |    |      |      |      |      |     |     |      |      |      |      |      |     |    |      |      |      |      |      |     |      |      |      |      |      |     |    |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |      |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |      |      |      |      |      |      |     |     |      |      |     |      |      |      |      |      |      |      |      |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |     |     |     |     |      |      |     |      |      |     |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |     |     |     |     |      |      |      |      |     |      |      |      |     |     |     |     |     |      |      |      |     |     |      |      |      |     |     |     |     |     |      |      |      |  |  |     |      |      |      |     |     |     |     |     |      |      |      |  |  |     |      |      |      |     |      |     |     |     |      |      |  |  |  |  |     |      |  |     |      |  |     |   |        |        |        |        |        |        |        |      |        |        |        |        |        |        |        |        |        |        |        |        |        |      |        |        |        |        |        |        |
| Mq  | 4,22 | 5,84            | 5,04 | 12,2 | 8,64  | 8,79        | Mq              | Mq   | 4,44 | 6,03               | 5,23 | 11,7  | 5,28 | 8,43 | Mq   | Mq              | 4,44 | 6,03            | 5,23 | 11,7  | 5,28 | 8,43 | Mq   |                       |      |                 |      |      |      |               |      |      |      |      |      |                     |      |      |      |      |      |       |      |      |      |      |      |                     |      |      |      |      |      |      |      |     |      |      |      |                       |      |      |     |     |      |      |      |      |      |     |      |      |      |      |     |     |    |      |      |      |      |      |     |      |      |      |      |      |     |    |      |      |      |      |     |     |      |      |      |      |      |     |    |      |      |      |      |      |     |      |      |      |      |      |     |    |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |      |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |      |      |      |      |      |      |     |     |      |      |     |      |      |      |      |      |      |      |      |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |     |     |     |     |      |      |     |      |      |     |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |     |     |     |     |      |      |      |      |     |      |      |      |     |     |     |     |     |      |      |      |     |     |      |      |      |     |     |     |     |     |      |      |      |  |  |     |      |      |      |     |     |     |     |     |      |      |      |  |  |     |      |      |      |     |      |     |     |     |      |      |  |  |  |  |     |      |  |     |      |  |     |   |        |        |        |        |        |        |        |      |        |        |        |        |        |        |        |        |        |        |        |        |        |      |        |        |        |        |        |        |
| Hq  | 12,8 | 20,4            | 20,4 | 57,7 | 16,1  | 57,7        | MHq             | Hq   | 13,7 | 21,1               | 21,1 | 54,6  | 14,3 | 54,6 | MHq  | Hq              | 13,7 | 21,1            | 21,1 | 54,6  | 14,3 | 54,6 | MHq  |                       |      |                 |      |      |      |               |      |      |      |      |      |                     |      |      |      |      |      |       |      |      |      |      |      |                     |      |      |      |      |      |      |      |     |      |      |      |                       |      |      |     |     |      |      |      |      |      |     |      |      |      |      |     |     |    |      |      |      |      |      |     |      |      |      |      |      |     |    |      |      |      |      |     |     |      |      |      |      |      |     |    |      |      |      |      |      |     |      |      |      |      |      |     |    |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |      |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |      |      |      |      |      |      |     |     |      |      |     |      |      |      |      |      |      |      |      |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |     |     |     |     |      |      |     |      |      |     |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |     |     |     |     |      |      |      |      |     |      |      |      |     |     |     |     |     |      |      |      |     |     |      |      |      |     |     |     |     |     |      |      |      |  |  |     |      |      |      |     |     |     |     |     |      |      |      |  |  |     |      |      |      |     |      |     |     |     |      |      |  |  |  |  |     |      |  |     |      |  |     |   |        |        |        |        |        |        |        |      |        |        |        |        |        |        |        |        |        |        |        |        |        |      |        |        |        |        |        |        |
| <b>Äußerste Abflüsse (m<sup>3</sup>/s) und Abflußspenden (l/s km<sup>2</sup>)</b>   |      |                 |      |      |       |             |                 |      |      |                    |      | <b>Äußerste Abflüsse (m<sup>3</sup>/s) und Abflußspenden (l/s km<sup>2</sup>)</b> |      |      |      |                 |      |                 |      |   |      |      |      |                       |      |                 |      |      |      |               |      |      |      |      |      |                     |      |      |      |      |      |       |      |      |      |      |      |                     |      |      |      |      |      |      |      |     |      |      |      |                       |      |      |     |     |      |      |      |      |      |     |      |      |      |      |     |     |    |      |      |      |      |      |     |      |      |      |      |      |     |    |      |      |      |      |     |     |      |      |      |      |      |     |    |      |      |      |      |      |     |      |      |      |      |      |     |    |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |      |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |      |      |      |      |      |      |     |     |      |      |     |      |      |      |      |      |      |      |      |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |     |     |     |     |      |      |     |      |      |     |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |     |     |     |     |      |      |      |      |     |      |      |      |     |     |     |     |     |      |      |      |     |     |      |      |      |     |     |     |     |     |      |      |      |  |  |     |      |      |      |     |     |     |     |     |      |      |      |  |  |     |      |      |      |     |      |     |     |     |      |      |  |  |  |  |     |      |  |     |      |  |     |   |        |        |        |        |        |        |        |      |        |        |        |        |        |        |        |        |        |        |        |        |        |      |        |        |        |        |        |        |
| 1954  |      |                 |      |      |       | 1941/1950   |                 |      |      |                    |      | 1954  |      |      |      |                 |      | 1941/1950       |      |   |      |      |      |                       |      |                 |      |      |      |               |      |      |      |      |      |                     |      |      |      |      |      |       |      |      |      |      |      |                     |      |      |      |      |      |      |      |     |      |      |      |                       |      |      |     |     |      |      |      |      |      |     |      |      |      |      |     |     |    |      |      |      |      |      |     |      |      |      |      |      |     |    |      |      |      |      |     |     |      |      |      |      |      |     |    |      |      |      |      |      |     |      |      |      |      |      |     |    |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |      |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |      |      |      |      |      |      |     |     |      |      |     |      |      |      |      |      |      |      |      |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |     |     |     |     |      |      |     |      |      |     |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |     |     |     |     |      |      |      |      |     |      |      |      |     |     |     |     |     |      |      |      |     |     |      |      |      |     |     |     |     |     |      |      |      |  |  |     |      |      |      |     |     |     |     |     |      |      |      |  |  |     |      |      |      |     |      |     |     |     |      |      |  |  |  |  |     |      |  |     |      |  |     |   |        |        |        |        |        |        |        |      |        |        |        |        |        |        |        |        |        |        |        |        |        |      |        |        |        |        |        |        |
| NQ  | Nq   | HQ              |      |      |       | Hq          | NQ              | Nq   | HQ   |                    |      |   | Hq   | NQ   | Nq   | HQ              |      |                 |      | Hq  | NQ   | Nq   | HQ   |                       |      |                 | Hq   |      |      |               |      |      |      |      |      |                     |      |      |      |      |      |       |      |      |      |      |      |                     |      |      |      |      |      |      |      |     |      |      |      |                       |      |      |     |     |      |      |      |      |      |     |      |      |      |      |     |     |    |      |      |      |      |      |     |      |      |      |      |      |     |    |      |      |      |      |     |     |      |      |      |      |      |     |    |      |      |      |      |      |     |      |      |      |      |      |     |    |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |      |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |      |      |      |      |      |      |     |     |      |      |     |      |      |      |      |      |      |      |      |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |     |     |     |     |      |      |     |      |      |     |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |     |     |     |     |      |      |      |      |     |      |      |      |     |     |     |     |     |      |      |      |     |     |      |      |      |     |     |     |     |     |      |      |      |  |  |     |      |      |      |     |     |     |     |     |      |      |      |  |  |     |      |      |      |     |      |     |     |     |      |      |  |  |  |  |     |      |  |     |      |  |     |   |        |        |        |        |        |        |        |      |        |        |        |        |        |        |        |        |        |        |        |        |        |      |        |        |        |        |        |        |
| 1954  | 32,9 | 2,07            | 20.  | 23.  | 12.   | 53          | 1931=351 cm a P | 20,4 | 9.   | Okt                | 1954 | 37,5  | 2,20 | 9.   | Jan  | 1909=364 cm a P | 21,1 | 7.              | Okt  | 1941/1950   | 30,5 | 1,79 | 6.   | Nov                   | 1949 | 1909=766 cm a P | 11,2 | 9.   | 2.   | 1946          |      |      |      |      |      |                     |      |      |      |      |      |       |      |      |      |      |      |                     |      |      |      |      |      |      |      |     |      |      |      |                       |      |      |     |     |      |      |      |      |      |     |      |      |      |      |     |     |    |      |      |      |      |      |     |      |      |      |      |      |     |    |      |      |      |      |     |     |      |      |      |      |      |     |    |      |      |      |      |      |     |      |      |      |      |      |     |    |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |      |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |      |      |      |      |      |      |     |     |      |      |     |      |      |      |      |      |      |      |      |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |     |     |     |     |      |      |     |      |      |     |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |     |     |     |     |      |      |      |      |     |      |      |      |     |     |     |     |     |      |      |      |     |     |      |      |      |     |     |     |     |     |      |      |      |  |  |     |      |      |      |     |     |     |     |     |      |      |      |  |  |     |      |      |      |     |      |     |     |     |      |      |  |  |  |  |     |      |  |     |      |  |     |   |        |        |        |        |        |        |        |      |        |        |        |        |        |        |        |        |        |        |        |        |        |      |        |        |        |        |        |        |
| 1941/1950   | 23,5 | 1,48            | 25.  | 10.  | 11.   | 1949 oft    | 1931=729 cm a P | 12,1 | 11.  | 2.                 | 1946 | 1941/1950   | 30,5 | 1,79 | 6.   | Nov             | 1949 | 1909=766 cm a P | 11,2 | 9.  | 2.   | 1946 |      |                       |      |                 |      |      |      |               |      |      |      |      |      |                     |      |      |      |      |      |       |      |      |      |      |      |                     |      |      |      |      |      |      |      |     |      |      |      |                       |      |      |     |     |      |      |      |      |      |     |      |      |      |      |     |     |    |      |      |      |      |      |     |      |      |      |      |      |     |    |      |      |      |      |     |     |      |      |      |      |      |     |    |      |      |      |      |      |     |      |      |      |      |      |     |    |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |      |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |      |      |      |      |      |      |     |     |      |      |     |      |      |      |      |      |      |      |      |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |     |     |     |     |      |      |     |      |      |     |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |     |     |     |     |      |      |      |      |     |      |      |      |     |     |     |     |     |      |      |      |     |     |      |      |      |     |     |     |     |     |      |      |      |  |  |     |      |      |      |     |     |     |     |     |      |      |      |  |  |     |      |      |      |     |      |     |     |     |      |      |  |  |  |  |     |      |  |     |      |  |     |   |        |        |        |        |        |        |        |      |        |        |        |        |        |        |        |        |        |        |        |        |        |      |        |        |        |        |        |        |
| seit 1941*)   |      |                 |      |      |       | seit 1941*) |                 |      |      |                    |      | seit 1941   |      |      |      |                 |      | seit 1941       |      |   |      |      |      |                       |      |                 |      |      |      |               |      |      |      |      |      |                     |      |      |      |      |      |       |      |      |      |      |      |                     |      |      |      |      |      |      |      |     |      |      |      |                       |      |      |     |     |      |      |      |      |      |     |      |      |      |      |     |     |    |      |      |      |      |      |     |      |      |      |      |      |     |    |      |      |      |      |     |     |      |      |      |      |      |     |    |      |      |      |      |      |     |      |      |      |      |      |     |    |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |      |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |      |      |      |      |      |      |     |     |      |      |     |      |      |      |      |      |      |      |      |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |     |     |     |     |      |      |     |      |      |     |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |     |     |     |     |      |      |      |      |     |      |      |      |     |     |     |     |     |      |      |      |     |     |      |      |      |     |     |     |     |     |      |      |      |  |  |     |      |      |      |     |     |     |     |     |      |      |      |  |  |     |      |      |      |     |      |     |     |     |      |      |  |  |  |  |     |      |  |     |      |  |     |   |        |        |        |        |        |        |        |      |        |        |        |        |        |        |        |        |        |        |        |        |        |      |        |        |        |        |        |        |
| NNQ   | NNq  | HHQ             |      |      |       | HHq         | NNQ             | NNq  | HHQ  |                    |      |   | HHq  | NNQ  | NNq  | HHQ             |      |                 |      | HHq   | NNQ  | NNq  | HHQ  |                       |      |                 | HHq  |      |      |               |      |      |      |      |      |                     |      |      |      |      |      |       |      |      |      |      |      |                     |      |      |      |      |      |      |      |     |      |      |      |                       |      |      |     |     |      |      |      |      |      |     |      |      |      |      |     |     |    |      |      |      |      |      |     |      |      |      |      |      |     |    |      |      |      |      |     |     |      |      |      |      |      |     |    |      |      |      |      |      |     |      |      |      |      |      |     |    |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |      |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |      |      |      |      |      |      |     |     |      |      |     |      |      |      |      |      |      |      |      |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |     |     |     |     |      |      |     |      |      |     |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |     |     |     |     |      |      |      |      |     |      |      |      |     |     |     |     |     |      |      |      |     |     |      |      |      |     |     |     |     |     |      |      |      |  |  |     |      |      |      |     |     |     |     |     |      |      |      |  |  |     |      |      |      |     |      |     |     |     |      |      |  |  |  |  |     |      |  |     |      |  |     |   |        |        |        |        |        |        |        |      |        |        |        |        |        |        |        |        |        |        |        |        |        |      |        |        |        |        |        |        |
| 23,5  | 1,48 | 1931=729 cm a P |      |      |       | 12,1        | 11.             | Febr | 1946 | 30,5               | 1,79 | 1909=766 cm a P   |      |      |      | 11,2            | 9.   | Febr            | 1946 |   |      |      |      |                       |      |                 |      |      |      |               |      |      |      |      |      |                     |      |      |      |      |      |       |      |      |      |      |      |                     |      |      |      |      |      |      |      |     |      |      |      |                       |      |      |     |     |      |      |      |      |      |     |      |      |      |      |     |     |    |      |      |      |      |      |     |      |      |      |      |      |     |    |      |      |      |      |     |     |      |      |      |      |      |     |    |      |      |      |      |      |     |      |      |      |      |      |     |    |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |      |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |      |      |      |      |      |      |     |     |      |      |     |      |      |      |      |      |      |      |      |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |     |     |     |     |      |      |     |      |      |     |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |     |     |     |     |      |      |      |      |     |      |      |      |     |     |     |     |     |      |      |      |     |     |      |      |      |     |     |     |     |     |      |      |      |  |  |     |      |      |      |     |     |     |     |     |      |      |      |  |  |     |      |      |      |     |      |     |     |     |      |      |  |  |  |  |     |      |  |     |      |  |     |   |        |        |        |        |        |        |        |      |        |        |        |        |        |        |        |        |        |        |        |        |        |      |        |        |        |        |        |        |
| <b>Eisverhältnisse 1954:</b> Randeis an 2 Tagen, Randeis und Eisbewegung an 8 Tagen, Eisstand an 30 Tagen.  |      |                 |      |      |       |             |                 |      |      |                    |      | <b>Eisverhältnisse 1954:</b> Eisbewegung an 4 Tagen, Eisstand an 42 Tagen.        |      |      |      |                 |      |                 |      |   |      |      |      |                       |      |                 |      |      |      |               |      |      |      |      |      |                     |      |      |      |      |      |       |      |      |      |      |      |                     |      |      |      |      |      |      |      |     |      |      |      |                       |      |      |     |     |      |      |      |      |      |     |      |      |      |      |     |     |    |      |      |      |      |      |     |      |      |      |      |      |     |    |      |      |      |      |     |     |      |      |      |      |      |     |    |      |      |      |      |      |     |      |      |      |      |      |     |    |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |      |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |      |      |      |      |      |      |     |     |      |      |     |      |      |      |      |      |      |      |      |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |     |     |     |     |      |      |     |      |      |     |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |     |     |     |     |      |      |      |      |     |      |      |      |     |     |     |     |     |      |      |      |     |     |      |      |      |     |     |     |     |     |      |      |      |  |  |     |      |      |      |     |     |     |     |     |      |      |      |  |  |     |      |      |      |     |      |     |     |     |      |      |  |  |  |  |     |      |  |     |      |  |     |   |        |        |        |        |        |        |        |      |        |        |        |        |        |        |        |        |        |        |        |        |        |      |        |        |        |        |        |        |
| *) Vor 1915, dem Beginn des Einflusses der Eder- und Diemeltalsperre NNQ = 13 m <sup>3</sup> /s im Juli oft 1893; HHQ = 2680 m <sup>3</sup> /s am 19. Januar 1841.                      |      |                 |      |      |       |             |                 |      |      |                    |      |   |      |      |      |                 |      |                 |      |   |      |      |      |                       |      |                 |      |      |      |               |      |      |      |      |      |                     |      |      |      |      |      |       |      |      |      |      |      |                     |      |      |      |      |      |      |      |     |      |      |      |                       |      |      |     |     |      |      |      |      |      |     |      |      |      |      |     |     |    |      |      |      |      |      |     |      |      |      |      |      |     |    |      |      |      |      |     |     |      |      |      |      |      |     |    |      |      |      |      |      |     |      |      |      |      |      |     |    |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |      |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |      |      |      |      |      |      |     |     |      |      |     |      |      |      |      |      |      |      |      |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |     |     |     |     |      |      |     |      |      |     |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |     |     |     |     |      |      |      |      |     |      |      |      |     |     |     |     |     |      |      |      |     |     |      |      |      |     |     |     |     |     |      |      |      |  |  |     |      |      |      |     |     |     |     |     |      |      |      |  |  |     |      |      |      |     |      |     |     |     |      |      |  |  |  |  |     |      |  |     |      |  |     |   |        |        |        |        |        |        |        |      |        |        |        |        |        |        |        |        |        |        |        |        |        |      |        |        |        |        |        |        |
| Wasser- und Schifffahrtsdirektion Hannover  |      |                 |      |      |       |             |                 |      |      |                    |      | Wasser- und Schifffahrtsdirektion Hannover  |      |      |      |                 |      |                 |      |   |      |      |      |                       |      |                 |      |      |      |               |      |      |      |      |      |                     |      |      |      |      |      |       |      |      |      |      |      |                     |      |      |      |      |      |      |      |     |      |      |      |                       |      |      |     |     |      |      |      |      |      |     |      |      |      |      |     |     |    |      |      |      |      |      |     |      |      |      |      |      |     |    |      |      |      |      |     |     |      |      |      |      |      |     |    |      |      |      |      |      |     |      |      |      |      |      |     |    |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |      |      |      |     |      |      |      |      |      |     |     |      |      |      |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |     |      |      |      |      |     |     |     |      |      |     |      |      |      |      |      |      |      |      |     |     |      |      |     |      |      |      |      |      |      |      |      |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |      |     |     |     |      |      |     |      |      |      |      |      |     |     |     |     |     |      |      |     |      |      |     |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |     |     |     |     |      |      |     |      |      |      |      |      |      |     |     |     |     |      |      |      |      |     |      |      |      |     |     |     |     |     |      |      |      |     |     |      |      |      |     |     |     |     |     |      |      |      |  |  |     |      |      |      |     |     |     |     |     |      |      |      |  |  |     |      |      |      |     |      |     |     |     |      |      |  |  |  |  |     |      |  |     |      |  |     |   |        |        |        |        |        |        |        |      |        |        |        |        |        |        |        |        |        |        |        |        |        |      |        |        |        |        |        |        |

| Weser   |                     | Pegel: Vlotho |        |        |                     |        |        |      |        |                       |      |      |
|---|---------------------|---------------|--------|--------|---------------------|--------|--------|------|--------|-----------------------|------|------|
| 184 km unterhalb der Vereinigung Werra-Fulda<br>PN = NN + 42,12 m a. S. FN = 17 618 km <sup>2</sup> *)<br>nach 12-Uhr-Ablesungen [s. S. 17] |                     |               |        |        |                     |        |        |      |        |                       |      |      |
| Tag   | Nov                 | Dez           | Jan    | Febr   | März                | April  | Mai    | Juni | Juli   | Aug                   | Sept | Okt  |
| <b>Tageswerte (m<sup>3</sup>/s)</b>   |                     |               |        |        |                     |        |        |      |        |                       |      |      |
| 1.  | 53,0                | 41,7          | 55,8   | 46,0   | 217                 | 105    | 78,0   | 81,1 | 61,5   | 118                   | 94,1 | 156  |
| 2.  | 59,3                | 42,9          | 51,7   | 45,3   | 174                 | 104    | 78,8   | 77,2 | 60,0   | 103                   | 95,7 | 181  |
| 3.  | 61,5                | 43,5          | 49,8   | 44,1   | 174                 | 110    | 74,1   | 76,5 | 60,7   | 96,6                  | 90,7 | 223  |
| 4.  | 60,0                | 44,1          | 49,1   | 44,1   | 161                 | 124    | 74,9   | 74,9 | 60,0   | 90,7                  | 89,1 | 250  |
| 5.  | 54,4                | 40,5          | 45,3   | 50,8   | 120                 | 148    | 74,1   | 71,9 | 60,7   | 84,3                  | 86,7 | 216  |
| 6.  | 53,0                | 41,7          | 42,3   | 55,4   | 96,6                | 165    | 73,4   | 68,1 | 60,7   | 82,7                  | 103  | 240  |
| 7.  | 49,8                | 40,5          | 38,5   | 58,2   | 118                 | 153    | 72,6   | 66,6 | 61,5   | 86,7                  | 103  | 342  |
| 8.  | 49,8                | 41,7          | 40,5   | 58,9   | 109                 | 154    | 72,6   | 65,1 | 61,5   | 89,1                  | 92,4 | 345  |
| 9.  | 48,5                | 41,1          | 38,0   | 56,7   | 91,5                | 146    | 70,3   | 64,4 | 60,7   | 89,9                  | 103  | 342  |
| 10.   | 47,8                | 42,9          | 37,4   | 56,7   | 88,3                | 139    | 68,1   | 65,1 | 60,0   | 76,5                  | 128  | 323  |
| 11.   | 47,8                | 41,7          | 39,0   | 60,8   | 80,4                | 129    | 65,8   | 65,8 | 60,7   | 88,3                  | 116  | 271  |
| 12.   | 47,8                | 40,5          | 43,5   | 62,4   | 80,4                | 118    | 67,3   | 65,8 | 71,1   | 82,7                  | 113  | 241  |
| 13.   | 47,2                | 42,9          | 67,3   | 67,6   | 77,2                | 111    | 66,6   | 65,1 | 90,7   | 88,3                  | 105  | 220  |
| 14.   | 48,5                | 41,7          | 105    | 73,6   | 78,0                | 104    | 65,8   | 64,4 | 102    | 88,3                  | 104  | 200  |
| 15.   | 47,2                | 40,5          | 99,1   | 74,2   | 74,9                | 101    | 65,1   | 64,4 | 95,7   | 84,3                  | 105  | 186  |
| 16.   | 47,2                | 41,7          | 118    | 72,7   | 74,9                | 102    | 65,1   | 64,4 | 89,1   | 107                   | 102  | 171  |
| 17.   | 47,2                | 42,3          | 131    | 71,2   | 73,4                | 101    | 65,1   | 63,7 | 86,7   | 108                   | 99,1 | 160  |
| 18.   | 47,8                | 40,5          | 153    | 66,7   | 74,9                | 97,3   | 65,1   | 65,1 | 98,2   | 106                   | 103  | 150  |
| 19.   | 49,1                | 40,0          | 181    | 63,8   | 74,1                | 98,2   | 64,4   | 63,7 | 146    | 94,1                  | 114  | 144  |
| 20.   | 45,9                | 40,5          | 148    | 61,7   | 76,5                | 98,2   | 65,8   | 63,7 | 142    | 89,9                  | 122  | 159  |
| 21.   | 46,5                | 39,5          | 139    | 59,6   | 78,0                | 96,6   | 69,6   | 62,2 | 126    | 87,5                  | 128  | 147  |
| 22.   | 45,9                | 40,0          | 147    | 56,2   | 78,8                | 94,9   | 71,9   | 61,5 | 127    | 85,9                  | 122  | 137  |
| 23.   | 45,3                | 40,5          | 161    | 53,4   | 83,5                | 94,1   | 71,1   | 62,2 | 114    | 103                   | 130  | 149  |
| 24.   | 44,1                | 40,0          | 200    | 55,4   | 89,1                | 100    | 70,3   | 62,9 | 101    | 138                   | 118  | 147  |
| 25.   | 43,5                | 41,1          | 153    | 56,2   | 90,7                | 101    | 70,3   | 60,7 | 91,5   | 142                   | 111  | 142  |
| 26.   | 44,7                | 41,1          | 123    | 63,2   | 94,1                | 93,2   | 68,8   | 60,7 | 96,6   | 130                   | 106  | 138  |
| 27.   | 44,7                | 41,1          | 98,2   | 75,2   | 102                 | 89,1   | 65,8   | 60,7 | 142    | 122                   | 105  | 146  |
| 28.   | 42,9                | 45,9          | 77,2   | 140    | 115                 | 86,7   | 65,8   | 61,5 | 148    | 109                   | 110  | 174  |
| 29.   | 43,5                | 55,1          | 61,1   |        | 113                 | 83,5   | 64,4   | 60,7 | 131    | 115                   | 121  | 174  |
| 30.   | 44,1                | 60,0          | 54,8   |        | 112                 | 80,4   | 64,4   | 61,5 | 132    | 104                   | 140  | 159  |
| 31.   |                     | 59,3          | 51,6   |        |                     | 108    |        | 65,8 |        | 132                   | 97,3 | 161  |
| Σ   | 1458,0              |               | 2799,2 | 1750,1 |                     | 3327,2 | 2141,2 |      | 2930,6 | 3088,1                |      | 6194 |
|   | 1336,5              |               |        |        | 3178,3              |        | 1971,6 |      |        | 3259,8                |      |      |
|   | Wi: n 181; 19 849,3 |               |        |        | So: n 184; 19 585,3 |        |        |      |        | Jahr: n 365; 33 434,6 |      |      |

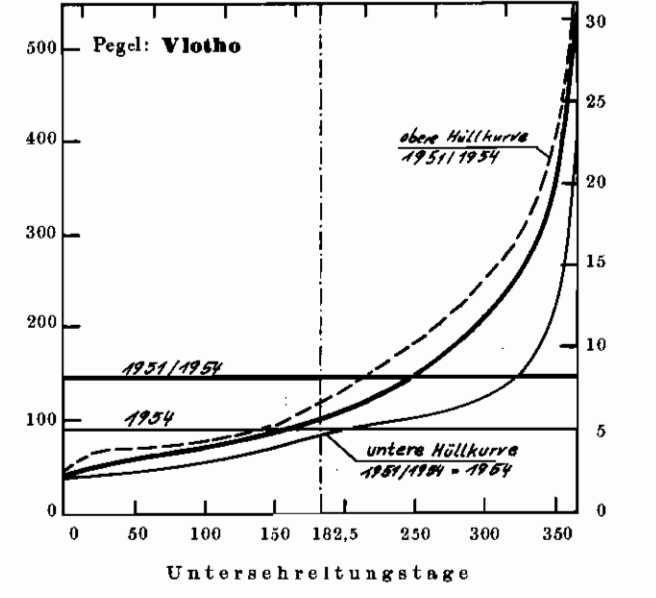
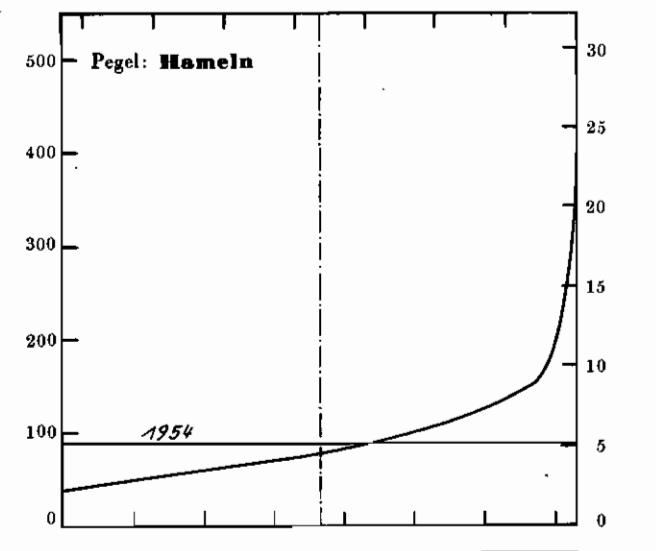
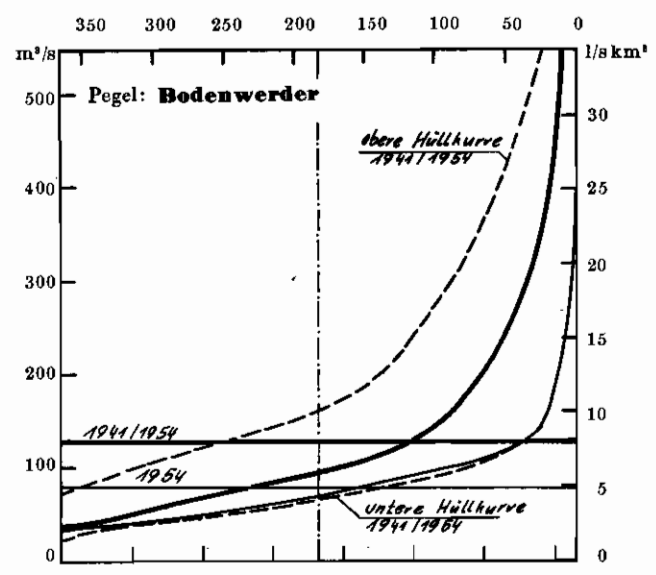
| Hauptzahlen                       |      |      |      |       |      |      |      |      |      |      |      |      |      |      |      |
|-----------------------------------|------|------|------|-------|------|------|------|------|------|------|------|------|------|------|------|
|                                   | Nov  | Dez  | Jan  | Febr  | März | Apr  | Mai  | Juni | Juli | Aug  | Sept | Okt  | Wi   | So   | Jahr |
| <b>Abflüsse (m<sup>3</sup>/s)</b> |      |      |      |       |      |      |      |      |      |      |      |      |      |      |      |
| <b>1954</b>                       |      |      |      |       |      |      |      |      |      |      |      |      |      |      |      |
| am                                | 28.  | 21.  | 10.  | 3.,4. | 17.  | 30.  | oft  | oft  | oft  | 10.  | 5.   | 22.  |      |      |      |
| NQ                                | 42,9 | 39,5 | 37,4 | 44,1  | 73,4 | 80,4 | 64,4 | 60,7 | 60,0 | 76,5 | 86,7 | 137  | 37,4 | 60,0 | 37,4 |
| HQ                                | 48,6 | 43,1 | 90,3 | 62,5  | 103  | 111  | 69,1 | 65,7 | 94,5 | 99,6 | 109  | 200  | 76,5 | 106  | 91,6 |
| HQ am                             | 61,5 | 60,0 | 200  | 140   | 217  | 165  | 78,8 | 81,1 | 150  | 142  | 140  | 345  | 217  | 345  | 345  |
| HQ                                | 3.   | 30.  | 24.  | 28.   | 1.   | 6.   | 2.   | 1.   | 19.  | 25.  | 30.  | 8.   |      |      |      |
| <b>1941/1950</b>                  |      |      |      |       |      |      |      |      |      |      |      |      |      |      |      |
| NQ                                | 33,4 | 43,4 | 42,8 | 59,3  | 73,4 | 94,8 | 75,0 | 64,2 | 48,2 | 42,8 | 38,6 | 35,4 | 33,4 | 35,4 | 33,4 |
| MNQ                               | 83,1 | 91,9 | 103  | 129   | 130  | 118  | 89,9 | 80,1 | 69,5 | 69,3 | 67,3 | 62,3 | 64,8 | 59,3 | 52,3 |
| MQ                                | 154  | 178  | 205  | 324   | 263  | 191  | 118  | 107  | 96,0 | 94,7 | 80,5 | 91,4 | 218  | 98,4 | 157  |
| MHQ                               | 323  | 361  | 374  | 654   | 555  | 330  | 159  | 175  | 153  | 155  | 102  | 137  | 989  | 252  | 989  |
| HQ                                | 1126 | 870  | 1082 | 2570  | 1400 | 464  | 256  | 423  | 372  | 338  | 188  | 490  | 2570 | 490  | 2570 |

| Spenden (l/s km <sup>2</sup> ): |      |      |      |           |      |      |     |
|---------------------------------|------|------|------|-----------|------|------|-----|
| 1954                            |      |      |      | 1941/1950 |      |      |     |
|                                 | Wi   | So   | Jahr | Wi        | So   | Jahr |     |
| Nq                              | 2,12 | 3,41 | 2,12 | 3,68      | 3,37 | 2,97 | MNq |
| Mq                              | 4,34 | 6,02 | 5,20 | 12,4      | 5,59 | 8,91 | Mq  |
| Hq                              | 12,3 | 19,6 | 19,6 | 56,1      | 14,3 | 56,1 | MHq |

| Äußerste Abflüsse (m <sup>3</sup> /s) und Abflußpenden (l/s km <sup>2</sup> ) |      |      |                   |      |               |
|---|------|------|-------------------|------|---------------|
|   | NQ   | Nq   | HQ                | Hq   |               |
| 1954  | 37,4 | 2,12 | 345 = 365 cm a P  | 19,6 | 8. Okt        |
| 1941/1950   | 33,4 | 1,90 | 2570 = 800 cm a P | 146  | 10. 2. 1946   |
|   | NNQ  | NNq  | HHQ               | HHq  |               |
| seit 1941   | 33,4 | 1,90 | 2570 = 800 cm a P | 146  | 10. Febr 1946 |

Eisverhältnisse 1954: Eisbewegung an 13 Tagen, Eisstand an 27 Tagen.  
\*) FN der Abflußmeßstelle, FN des Pegels Vlotho = 17 583.  
Wasser- und Schifffahrtsdirektion Hannover

Dauerlinien und Jahresmittel der Abflüsse und Abflußpenden  
Übersechreitungstage



Main data table with columns for months (Nov to Okt) and years (1954, 1941/1950). Includes sub-headers for 'Weser Pegel: Porta' and 'Weser Pegel: Drakenburg'. Contains daily discharge values in m³/s and summary statistics like 'Σ' and 'Wi: n 181; 15 760,2'.

Summary statistics table with columns for months (Nov to Okt) and years (1954, 1941/1950). Includes sub-headers for 'Hauptzahlen' and 'Spenden (l/s km²)'. Contains average discharge values and discharge per area. Includes 'Eisverhältnisse 1954' and 'Wasser- und Schifffahrtsdirektion Hannover'.

Weser

Pegel: Intschede

331,2 km unterhalb der Vereinigung Werra-Fulda  
 PN = NN + 4,80 m. FN = 37 788 km<sup>2</sup>  
 nach mittleren Tageswasserständen [s. S. 19]

| Tag                                 | Nov    | Dez      | Jan  | Febr   | März   | April    | Mai   | Juni   | Juli     | Aug  | Sept | Okt   |
|-------------------------------------|--------|----------|------|--------|--------|----------|-------|--------|----------|------|------|-------|
| <b>Tageswerte (m<sup>3</sup>/s)</b> |        |          |      |        |        |          |       |        |          |      |      |       |
| 1.                                  | 97,1   | 97,0     | 140  | 87,5   | 264    | 240      | 154   | 115    | 95,5     | 344  | 323  | 299   |
| 2.                                  | 97,1   | 97,0     | 132  | 81,5   | 308    | 244      | 149   | 124    | 95,5     | 313  | 295  | 343   |
| 3.                                  | 107    | 98,0     | 127  | 80,5   | 308    | 258      | 146   | 131    | 95,5     | 281  | 270  | 388   |
| 4.                                  | 112    | 96,1     | 122  | 80,9   | 319    | 269      | 146   | 132    | 97,1     | 254  | 249  | 432   |
| 5.                                  | 112    | 94,2     | 120  | 82,8   | 331    | 294      | 149   | 134    | 93,1     | 229  | 237  | 455   |
| 6.                                  | 105    | 94,2     | 112  | 82,0   | 288    | 331      | 156   | 121    | 93,9     | 218  | 249  | 450   |
| 7.                                  | 105    | 95,1     | 112  | 82,8   | 246    | 338      | 159   | 117    | 95,5     | 204  | 269  | 542   |
| 8.                                  | 102    | 93,2     | 116  | 88,6   | 247    | 320      | 150   | 114    | 93,9     | 211  | 257  | 691   |
| 9.                                  | 101    | 91,3     | 120  | 94,0   | 237    | 302      | 144   | 109    | 93,1     | 204  | 246  | 722   |
| 10.                                 | 97,9   | 92,2     | 123  | 97,0   | 213    | 284      | 142   | 111    | 92,3     | 202  | 244  | 701   |
| 11.                                 | 97,9   | 90,3     | 126  | 102    | 196    | 264      | 138   | 113    | 93,9     | 197  | 262  | 674   |
| 12.                                 | 96,3   | 95,1     | 125  | 110    | 185    | 249      | 131   | 113    | 101      | 195  | 258  | 624   |
| 13.                                 | 100    | 95,1     | 156  | 124    | 182    | 231      | 130   | 112    | 141      | 207  | 247  | 568   |
| 14.                                 | 99,0   | 90,3     | 216  | 126    | 178    | 220      | 125   | 111    | 206      | 205  | 242  | 514   |
| 15.                                 | 107    | 91,3     | 260  | 165    | 174    | 212      | 123   | 112    | 249      | 211  | 245  | 629   |
| 16.                                 | 116    | 93,2     | 288  | 166    | 170    | 210      | 118   | 109    | 254      | 257  | 238  | 433   |
| 17.                                 | 122    | 94,2     | 304  | 158    | 168    | 216      | 110   | 108    | 240      | 358  | 234  | 398   |
| 18.                                 | 126    | 96,1     | 316  | 156    | 167    | 214      | 113   | 106    | 232      | 376  | 231  | 368   |
| 19.                                 | 116    | 96,1     | 329  | 156    | 166    | 208      | 112   | 106    | 254      | 355  | 229  | 347   |
| 20.                                 | 114    | 93,2     | 343  | 145    | 165    | 204      | 112   | 106    | 337      | 322  | 232  | 337   |
| 21.                                 | 110    | 97,0     | 325  | 125    | 167    | 198      | 116   | 106    | 353      | 295  | 238  | 347   |
| 22.                                 | 105    | 95,1     | 316  | 112    | 168    | 196      | 126   | 106    | 331      | 281  | 238  | 335   |
| 23.                                 | 107    | 94,2     | 305  | 120    | 169    | 190      | 135   | 105    | 304      | 298  | 244  | 325   |
| 24.                                 | 103    | 98,0     | 310  | 118    | 173    | 187      | 137   | 103    | 271      | 355  | 253  | 338   |
| 25.                                 | 102    | 99,0     | 323  | 112    | 177    | 188      | 135   | 103    | 250      | 446  | 254  | 338   |
| 26.                                 | 101    | 104      | 279  | 114    | 182    | 186      | 135   | 100    | 236      | 466  | 242  | 343   |
| 27.                                 | 101    | 109      | 200  | 128    | 201    | 177      | 132   | 97,9   | 255      | 451  | 238  | 338   |
| 28.                                 | 101    | 113      | 173  | 150    | 233    | 169      | 123   | 97,9   | 335      | 426  | 246  | 352   |
| 29.                                 | 99,0   | 127      | 148  |        | 244    | 165      | 119   | 97,9   | 353      | 390  | 254  | 411   |
| 30.                                 | 96,1   | 136      | 129  |        | 245    | 158      | 110   | 97,1   | 349      | 371  | 274  | 416   |
| 31.                                 |        | 143      | 108  |        | 241    |          | 110   |        | 353      | 349  |      | 413   |
| Σ                                   | 3155,4 | 3098,5   | 6303 | 3244,6 | 6712   | 6922     | 4085  | 3317,8 | 6443,3   | 9271 | 7538 | 13871 |
| Wi:                                 | u 181; | 29 435,5 |      | So:    | n 184; | 44 526,1 | Jahr: | u 365; | 73 961,6 |      |      |       |

Hauptzahlen

|  | Nov  | Dez  | Jan   | Febr | März | Apr | Mai | Juni | Juli | Aug | Sept | Okt | Wi   | So   | Jahr |
|--|------|------|-------|------|------|-----|-----|------|------|-----|------|-----|------|------|------|
| <b>Abflüsse (m<sup>3</sup>/s) 1954</b> |      |      |       |      |      |     |     |      |      |     |      |     |      |      |      |
| am                                     | 12.  | 11.  | 6.,7. | 3.   | 20.  | 30. | oft | 30.  | 10.  | 12. | 19.  | 1.  |      |      |      |
| NQ                                     | 96,3 | 90,3 | 112   | 80,5 | 165  | 158 | 110 | 97,1 | 92,3 | 195 | 229  | 299 | 80,5 | 92,3 | 80,5 |
| MQ                                     | 105  | 100  | 203   | 116  | 217  | 231 | 132 | 111  | 208  | 299 | 251  | 447 | 163  | 242  | 203  |
| HQ                                     | 126  | 148  | 349   | 166  | 347  | 341 | 162 | 141  | 360  | 471 | 332  | 735 | 349  | 735  | 735  |
| am                                     | 18.  | 31.  | 20.   | 16.  | 2.   | 7.  | 7.  | 5.   | 21.  | 26. | 1.   | 9.  |      |      |      |

|                  | Nov  | Dez  | Jan  | Febr | März | Apr | Mai | Juni | Juli | Aug  | Sept | Okt  | Wi   | So   | Jahr |
|------------------|------|------|------|------|------|-----|-----|------|------|------|------|------|------|------|------|
| <b>1941/1950</b> |      |      |      |      |      |     |     |      |      |      |      |      |      |      |      |
| NQ               | 67,2 | 118  | 120  | 133  | 154  | 209 | 152 | 126  | 104  | 80,3 | 68,0 | 70,6 | 67,2 | 68,0 | 67,2 |
| MNQ              | 174  | 206  | 239  | 283  | 283  | 256 | 183 | 161  | 136  | 133  | 130  | 124  | 141  | 115  | 102  |
| MQ               | 297  | 357  | 429  | 612  | 525  | 388 | 235 | 210  | 181  | 178  | 154  | 177  | 435  | 189  | 311  |
| MHQ              | 504  | 600  | 670  | 1072 | 996  | 584 | 303 | 305  | 258  | 261  | 191  | 256  | 1516 | 437  | 1516 |
| HQ               | 1345 | 1216 | 1735 | 3370 | 2220 | 867 | 482 | 574  | 501  | 576  | 354  | 879  | 3370 | 879  | 3370 |

Spenden (l/s km<sup>2</sup>):

|     | 1954 |      |      | 1941/1950 |      |      |
|-----|------|------|------|-----------|------|------|
|     | Wi   | So   | Jahr | Wi        | So   | Jahr |
| Nq  | 2,13 | 2,44 | 2,13 | 3,73      | 3,04 | 2,70 |
| Mq  | 4,31 | 6,40 | 5,37 | 11,5      | 5,00 | 8,23 |
| Hq  | 9,24 | 19,5 | 19,5 | 40,1      | 11,6 | 40,1 |
| MNQ |      |      |      |           |      |      |
| Mq  |      |      |      |           |      |      |
| MHQ |      |      |      |           |      |      |

Äußerste Abflüsse (m<sup>3</sup>/s) und Abflußspenden (l/s km<sup>2</sup>)

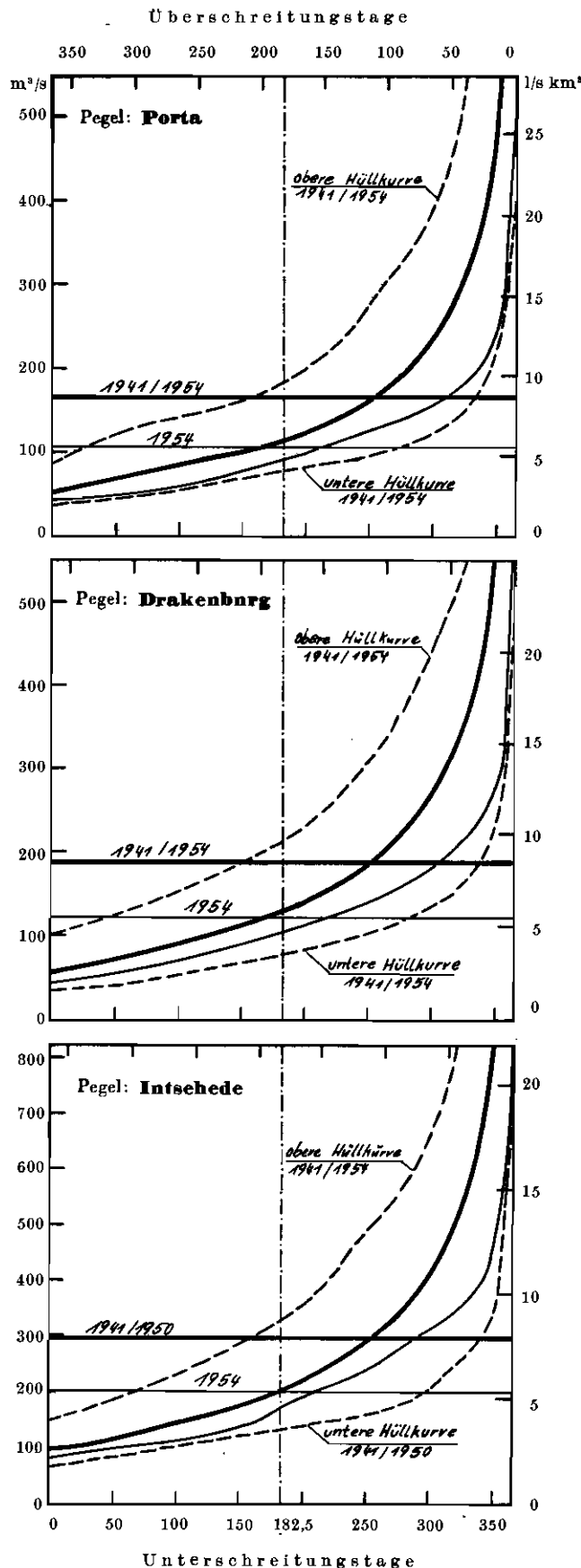
|             | NQ   | Nq   | HQ                | Hq            |
|-------------|------|------|-------------------|---------------|
| 1954        | 80,5 | 2,13 | 735 = 526 cm a P  | 19,5          |
| 1941/1950   | 67,2 | 1,78 | 3370 = 746 cm a P | 89,2          |
| seit 1915*) | NNQ  | NNq  | HHQ               | HHq           |
|             | 51,0 | 1,35 | 3370 = 746 cm a P | 89,2          |
|             |      |      |                   | 12. Febr 1946 |

Eisverhältnisse 1954: Eisbewegung an 8 Tagen, Eisstand an 32 Tagen.

\*) Vor 1915, dem Beginn des Einflusses der Eder- und Diemeltalsperre, HHQ = 4650 m<sup>3</sup>/s am 21. Januar 1841.

Wasser- und Schifffahrtsdirektion Hannover

Dauerlinien und Jahresmittel der Abflüsse und Abflußspenden



| Werra  |                   |                     |       |       |        |       |       |       |       |       | Werra  |                                      |                   |                   |                     |                   |        |        |       |       |       |       |       |        |
|--|-------------------|---------------------|-------|-------|--------|-------|-------|-------|-------|-------|--|--------------------------------------|-------------------|-------------------|---------------------|-------------------|--------|--------|-------|-------|-------|-------|-------|--------|
| 77,32 km oberhalb der Vereinigung Werra-Fulda<br>PN = NN + 168,00 m a. S. FN = 4308 km <sup>2</sup><br>ab 1. I. 1954 nach mittleren Tageswasserständen<br>bis 31. 12. 1953 12-Uhr-Ablesungen |                   |                     |       |       |        |       |       |       |       |       | 29,72 km oberhalb der Vereinigung Werra-Fulda<br>PN = NN + 136,00 m a. S. FN = 5261 km <sup>2</sup><br>ab Januar 1954 nach mittleren Tageswasserständen<br>bis 31. 12. 1953 12-Uhr-Ablesungen [s. S. 22] |                                      |                   |                   |                     |                   |        |        |       |       |       |       |       |        |
| Pegel: Heldra  |                   |                     |       |       |        |       |       |       |       |       | Pegel: Ludwigstein   |                                      |                   |                   |                     |                   |        |        |       |       |       |       |       |        |
| Nov  | Dez               | Jan                 | Febr  | März  | April  | Mai   | Juni  | Juli  | Aug   | Sept  | Okt  | Tag                                  | Nov               | Dez               | Jan                 | Febr              | März   | April  | Mai   | Juni  | Juli  | Aug   | Sept  | Okt    |
| <b>Tageswerte (m<sup>3</sup>/s)*</b>   |                   |                     |       |       |        |       |       |       |       |       |  | <b>Tageswerte (m<sup>3</sup>/s)*</b> |                   |                   |                     |                   |        |        |       |       |       |       |       |        |
| 11,0   | 7,40              | 11,7                | 14,5  | 39,0  | 33,5   | 22,0  | 12,9  | 8,50  | 20,0  | 21,5  | 42,5   | 1.                                   | 11,7              | 11,0              | 13,7                | 16,5 <sup>o</sup> | 43,3   | 40,6   | 28,0  | 16,9  | 10,5  | 25,0  | 26,5  | 48,5   |
| 9,10   | 7,80              | 11,3                | 13,7  | 39,9  | 37,7   | 21,0  | 13,4  | 8,90  | 19,5  | 20,0  | 68,4   | 2.                                   | 13,3              | 10,0              | 13,3                | 15,8              | 41,1   | 42,2   | 27,0  | 17,4  | 10,9  | 24,5  | 25,0  | 74,4   |
| 11,0   | 7,40              | 9,10                | 11,1  | 18,0  | 43,3   | 20,5  | 12,9  | 8,90  | 14,5  | 23,2  | 84,8   | 3.                                   | 13,3              | 10,4              | 12,1                | 13,4 <sup>o</sup> | 29,5   | 48,1   | 26,5  | 16,9  | 10,9  | 22,5  | 28,2  | 90,8   |
| 10,0   | 7,40              | 10,3                | 14,5  | 15,5  | 61,0   | 21,5  | 12,9  | 14,7  | 16,0  | 28,6  | 70,9   | 4.                                   | 12,2              | 9,10              | 13,3                | 16,5 <sup>o</sup> | 24,5   | 56,5   | 27,5  | 16,9  | 21,7  | 19,5  | 32,4  | 85,9   |
| 12,5   | 7,80              | 7,40                | 13,7  | 25,1  | 64,6   | 21,5  | 12,1  | 14,3  | 16,0  | 22,2  | 70,2   | 5.                                   | 11,9              | 9,50              | 10,4                | 15,8 <sup>o</sup> | 27,5   | 62,5   | 27,5  | 16,1  | 21,3  | 20,0  | 33,6  | 76,2   |
| 10,0   | 6,60              | 5,60                | 14,8  | 25,1  | 69,1   | 21,5  | 11,3  | 14,7  | 15,5  | 21,2  | 73,2   | 6.                                   | 12,7              | 9,40              | 8,60                | 17,2 <sup>o</sup> | 33,5   | 65,1   | 27,5  | 15,3  | 21,7  | 20,0  | 27,2  | 79,2   |
| 8,10   | 4,50              | 8,00                | 14,8  | 18,0  | 68,2   | 20,5  | 11,7  | 7,30  | 15,0  | 20,5  | 91,1   | 7.                                   | 12,3              | 8,00              | 11,0                | 17,2 <sup>o</sup> | 27,5   | 65,7   | 25,5  | 15,7  | 10,1  | 19,5  | 26,2  | 97,1   |
| 7,30   | 7,40              | 6,70                | 14,0  | 15,0  | 65,5   | 20,5  | 12,5  | 8,10  | 23,6  | 20,0  | 101  | 8.                                   | 10,8              | 11,2              | 9,70                | 17,0 <sup>o</sup> | 24,5   | 64,4   | 25,0  | 16,5  | 9,30  | 19,0  | 25,6  | 107    |
| 10,5   | 6,00              | 9,50                | 15,4  | 14,5  | 57,4   | 17,0  | 12,5  | 8,10  | 20,5  | 15,9  | 91,8   | 9.                                   | 12,4              | 8,00              | 12,5                | 18,4 <sup>o</sup> | 21,8   | 60,1   | 23,5  | 16,5  | 10,1  | 28,5  | 25,0  | 97,8   |
| 6,70   | 7,20              | 11,9                | 15,0  | 15,0  | 48,8   | 16,0  | 12,5  | 9,70  | 25,0  | 21,8  | 74,0   | 10.                                  | 8,60              | 8,00              | 14,9                | 17,7 <sup>o</sup> | 21,8   | 54,1   | 22,0  | 16,5  | 11,7  | 25,5  | 30,8  | 82,0   |
| 10,7   | 7,60              | 13,6                | 15,0  | 16,0  | 43,3   | 15,5  | 10,5  | 14,3  | 23,0  | 20,0  | 67,4   | 11.                                  | 11,4              | 10,4              | 16,5                | 17,7 <sup>o</sup> | 22,8   | 49,3   | 21,5  | 14,5  | 18,3  | 30,0  | 26,8  | 71,4   |
| 7,20   | 8,40              | 12,8                | 15,2  | 16,5  | 38,4   | 12,4  | 9,70  | 16,5  | 20,5  | 20,6  | 58,5   | 12.                                  | 11,8              | 8,30              | 15,7                | 18,2 <sup>o</sup> | 23,1   | 45,7   | 18,4  | 13,7  | 20,5  | 28,0  | 25,0  | 64,5   |
| 7,20   | 7,50              | 13,6                | 15,4  | 17,0  | 34,2   | 21,5  | 9,70  | 14,3  | 20,5  | 19,7  | 52,0   | 13.                                  | 11,4              | 10,3              | 16,5                | 18,7 <sup>o</sup> | 24,5   | 42,8   | 27,5  | 13,7  | 18,3  | 25,0  | 25,6  | 58,0   |
| 4,90   | 7,90              | 16,3                | 16,1  | 16,5  | 30,0   | 12,1  | 10,9  | 14,7  | 18,5  | 18,9  | 47,0   | 14.                                  | 11,0              | 10,7              | 19,3                | 19,3 <sup>o</sup> | 24,5   | 39,5   | 17,1  | 14,9  | 18,7  | 24,5  | 24,7  | 53,0   |
| 7,30   | 7,90              | 17,5                | 18,2  | 16,0  | 28,8   | 10,9  | 10,5  | 15,2  | 22,0  | 17,4  | 43,0   | 15.                                  | 10,6              | 10,3              | 20,5                | 21,2 <sup>o</sup> | 24,5   | 38,5   | 15,9  | 14,5  | 19,2  | 23,5  | 22,9  | 49,0   |
| 7,70   | 9,90              | 28,0                | 16,3  | 16,5  | 24,6   | 10,5  | 10,9  | 18,0  | 25,5  | 18,0  | 39,5   | 16.                                  | 12,2              | 10,3              | 31,0                | 19,3 <sup>o</sup> | 23,6   | 38,5   | 15,5  | 14,9  | 22,0  | 27,0  | 21,4  | 45,5   |
| 7,30   | 7,30              | 53,0                | 15,2  | 18,0  | 32,8   | 11,3  | 10,5  | 20,0  | 21,5  | 18,7  | 37,0   | 17.                                  | 11,4              | 11,1              | 55,1                | 17,2 <sup>o</sup> | 24,5   | 41,1   | 16,3  | 14,5  | 25,0  | 29,5  | 22,0  | 43,0   |
| 4,90   | 6,90              | 47,5                | 13,3  | 21,5  | 31,4   | 10,9  | 10,1  | 29,5  | 20,5  | 20,9  | 34,8   | 18.                                  | 8,20              | 7,70              | 50,3                | 16,3 <sup>o</sup> | 25,0   | 40,6   | 15,9  | 14,1  | 34,5  | 26,5  | 21,7  | 40,8   |
| 8,90   | 8,10              | 37,0                | 11,0  | 23,5  | 28,8   | 11,7  | 8,50  | 38,3  | 20,5  | 20,0  | 31,8   | 19.                                  | 11,8              | 10,5              | 40,0                | 14,1 <sup>o</sup> | 27,5   | 39,5   | 16,7  | 12,5  | 45,3  | 25,5  | 25,9  | 37,8   |
| 7,70   | 6,70              | 31,0                | 10,4  | 26,2  | 28,8   | 11,7  | 6,70  | 38,1  | 20,5  | 22,5  | 32,6   | 20.                                  | 10,4              | 11,3              | 34,0                | 13,4 <sup>o</sup> | 29,5   | 38,5   | 16,7  | 9,70  | 45,1  | 25,5  | 25,0  | 38,6   |
| 5,70   | 6,20              | 33,0                | 9,60  | 30,9  | 30,0   | 10,1  | 7,90  | 35,3  | 20,5  | 26,6  | 31,0   | 21.                                  | 7,00              | 10,8              | 36,0                | 12,6 <sup>o</sup> | 33,0   | 39,5   | 15,1  | 10,9  | 39,3  | 25,5  | 27,5  | 37,0   |
| 6,90   | 6,20              | 67,9                | 10,4  | 35,1  | 37,0   | 12,9  | 7,90  | 30,0  | 30,2  | 24,6  | 29,4   | 22.                                  | 11,8              | 10,4              | 71,9                | 13,4 <sup>o</sup> | 37,5   | 42,2   | 17,9  | 10,9  | 34,0  | 25,5  | 31,6  | 35,4   |
| 8,10   | 7,60              | 63,1                | 10,6  | 38,4  | 34,9   | 12,9  | 11,1  | 27,0  | 36,1  | 22,8  | 27,4   | 23.                                  | 10,6              | 10,4              | 66,1                | 13,6 <sup>o</sup> | 40,0   | 44,5   | 17,9  | 15,1  | 31,0  | 35,2  | 29,6  | 33,4   |
| 6,90   | 9,20              | 47,3                | 9,60  | 41,0  | 31,4   | 11,9  | 8,30  | 23,5  | 39,7  | 21,8  | 28,6   | 24.                                  | 11,0              | 10,0              | 50,3                | 12,6 <sup>o</sup> | 42,2   | 40,6   | 17,9  | 11,3  | 27,5  | 41,7  | 28,9  | 34,6   |
| 6,90   | 8,40              | 38,1                | 11,1  | 44,5  | 29,4   | 10,7  | 9,50  | 25,5  | 32,7  | 19,4  | 31,0   | 25.                                  | 9,40              | 9,80              | 41,1 <sup>o</sup>   | 14,1 <sup>o</sup> | 44,4   | 39,0   | 16,7  | 12,5  | 29,5  | 44,7  | 26,8  | 37,0   |
| 6,10   | 7,60              | 29,5                | 16,5  | 56,8  | 28,2   | 11,5  | 8,30  | 27,5  | 33,9  | 20,9  | 29,4   | 26.                                  | 10,2              | 9,40              | 32,5 <sup>o</sup>   | 19,5 <sup>o</sup> | 52,2   | 37,5   | 17,5  | 11,3  | 32,5  | 38,7  | 24,4  | 35,4   |
| 6,10   | 11,2              | 16,7                | 48,0  | 60,0  | 27,6   | 9,30  | 7,50  | 30,0  | 32,7  | 29,6  | 27,8   | 27.                                  | 10,2              | 9,00              | 19,7 <sup>o</sup>   | 50,3 <sup>o</sup> | 57,6   | 36,5   | 14,3  | 10,5  | 35,0  | 39,9  | 25,9  | 33,8   |
| 6,50   | 14,0              | 13,5                | 46,8  | 58,4  | 24,6   | 9,30  | 7,50  | 29,5  | 28,7  | 37,0  | 27,0   | 28.                                  | 9,00              | 12,6              | 16,5 <sup>o</sup>   | 49,8              | 58,2   | 33,5   | 14,3  | 10,5  | 34,5  | 38,7  | 35,6  | 33,0   |
| 7,30   | 9,00              | 15,6                | 49,6  | 23,4  | 7,70   | 7,10  | 26,5  | 27,1  | 34,8  | 27,4  | 27,4   | 29.                                  | 11,0              | 12,2              | 18,9 <sup>o</sup>   | 53,4              | 32,5   | 12,7   | 9,70  | 30,5  | 34,7  | 43,0  | 33,4  |        |
| 8,50   | 8,60              | 19,3                | 43,1  | 21,8  | 9,70   | 7,40  | 25,0  | 26,5  | 33,0  | 25,2  | 25,2   | 30.                                  | 11,0              | 13,6              | 22,3 <sup>o</sup>   | 46,8              | 31,0   | 14,7   | 10,4  | 29,0  | 33,1  | 39,8  | 31,2  |        |
| 8,60   | 16,7              |                     | 38,4  |       | 11,7   |       | 25,0  | 26,0  |       |       | 25,2   | 31.                                  |                   | 14,2              | 19,7 <sup>o</sup>   |                   | 43,3   |        | 16,7  |       | 29,0  | 32,5  |       | 31,2   |
| 239,0  | 244,3             | 722,5               | 450,2 | 900,0 | 1158,5 | 448,2 | 305,2 | 626,9 | 732,7 | 682,1 | 1529,9   | Σ                                    | 330,6             | 317,9             | 813,4               | 526,8             | 1053,1 | 1350,1 | 617,2 | 414,8 | 756,9 | 879,2 | 834,6 | 1715,9 |
| Wi: n 181; 3714,5  | So: n 184; 4325,0 | Jahr: n 365; 8039,5 |       |       |        |       |       |       |       |       |  |                                      | Wi: n 181; 4391,9 | So: n 184; 5218,6 | Jahr: n 365; 9610,5 |                   |        |        |       |       |       |       |       |        |

| Hauptzahlen   |      |      |         |      |                |      |          |      |      |      |      | Hauptzahlen   |      |             |      |      |         |      |                |      |              |      |      |      |      |      |      |      |      |     |
|---|------|------|---------|------|----------------|------|----------|------|------|------|------|---|------|-------------|------|------|---------|------|----------------|------|--------------|------|------|------|------|------|------|------|------|-----|
| Nov   | Dez  | Jan  | Febr    | März | Apr            | Mai  | Juni     | Juli | Aug  | Sept | Okt  | Wi  | So   | Jahr        | Nov  | Dez  | Jan     | Febr | März           | Apr  | Mai          | Juni | Juli | Aug  | Sept | Okt  | Wi   | So   | Jahr |     |
| Abflüsse (m <sup>3</sup> /s)  |      |      |         |      |                |      |          |      |      |      |      | Abflüsse (m <sup>3</sup> /s)  |      |             |      |      |         |      |                |      |              |      |      |      |      |      |      |      |      |     |
| 14,1  | 7,0  | 6,0  | 21,0    | 9,0  | 30,0           | 29,0 | 20,0     | 7,0  | 3,0  | 9,0  | 30,0 |   |      |             | 21,0 | 18,0 | 6,0     | 21,0 | 9,0            | 31,0 | 29,0         | 20,0 | 8,0  | 8,0  | 16,0 | 30,0 |      |      |      |     |
| 4,90  | 4,50 | 5,60 | 9,60    | 14,5 | 21,8           | 7,70 | 6,70     | 7,30 | 14,5 | 15,9 | 25,2 | 4,50  | 6,70 | 4,50        | 7,00 | 7,70 | 8,60    | 12,6 | 21,8           | 31,0 | 12,7         | 9,70 | 9,30 | 19,0 | 21,4 | 31,2 | 7,00 | 9,30 | 7,00 |     |
| 7,97  | 7,88 | 23,3 | 16,1    | 20,0 | 38,6           | 14,5 | 10,2     | 20,2 | 23,6 | 22,7 | 49,4 | 20,5  | 23,5 | 22,0        | 11,0 | 10,3 | 26,2    | 18,8 | 34,0           | 45,0 | 19,9         | 13,8 | 24,4 | 28,4 | 27,8 | 55,4 | 24,3 | 28,4 | 26,3 |     |
| 14,3  | 14,0 | 76,0 | 60,0    | 60,3 | 69,8           | 25,0 | 16,5     | 44,3 | 39,8 | 40,8 | 108  | 76,0  | 108  | 108         | 15,3 | 14,7 | 80,4    | 50,3 | 58,2           | 67,0 | 29,0         | 18,7 | 49,3 | 45,6 | 46,0 | 114  | 80,4 | 114  | 114  |     |
| 1.  | 28.  | 31.  | 2.      | 27.  | 6.             | 5.   | 23.      | 20.  | 24.  | 28.  | 7.   |   |      |             | 2,3. | 31.  | 22.     | 27.  | 27.            | 6.   | 4.           | 9.   | 20.  | 24.  | 29.  | 7.   |      |      |      |     |
| 19-19-**) (Heldra)  |      |      |         |      |                |      |          |      |      |      |      | 19-19-**) (Ludwigstein)   |      |             |      |      |         |      |                |      |              |      |      |      |      |      |      |      |      |     |
| Spenden (l/s km <sup>2</sup> ):   |      |      |         |      |                |      |          |      |      |      |      | Spenden (l/s km <sup>2</sup> ):   |      |             |      |      |         |      |                |      |              |      |      |      |      |      |      |      |      |     |
| 1954  |      |      |         |      |                |      |          |      |      |      |      | 1954  |      |             |      |      |         |      |                |      |              |      |      |      |      |      |      |      |      |     |
|   | Wi   | So   | Jahr    |      |                |      |          |      |      |      |      |   |      |             |      | Wi   | So      | Jahr |                |      |              |      |      |      |      |      |      |      |      |     |
| Nq  | 1,04 | 1,56 | 1,04    |      |                |      |          |      |      |      |      |   |      | MNq         | Nq   | 1,33 | 1,77    | 1,33 |                |      |              |      |      |      |      |      |      |      | MNq  |     |
| Mq  | 4,76 | 5,45 | 5,11    |      |                |      |          |      |      |      |      |   |      | Mq          | Mq   | 4,62 | 5,40    | 5,00 |                |      |              |      |      |      |      |      |      |      |      | Mq  |
| Hq  | 17,6 | 25,1 | 25,1    |      |                |      |          |      |      |      |      |   |      | MHq         | Hq   | 15,3 | 21,7    | 21,7 |                |      |              |      |      |      |      |      |      |      |      | MHq |
| Äußerste Abflüsse (m <sup>3</sup> /s) und Abflußpenden (l/s km <sup>2</sup> ) |      |      |         |      |                |      |          |      |      |      |      | Äußerste Abflüsse (m <sup>3</sup> /s) und Abflußpenden (l/s km <sup>2</sup> ) |      |             |      |      |         |      |                |      |              |      |      |      |      |      |      |      |      |     |
| 1954  | NNQ  | NNq  |         |      |                |      |          |      |      |      |      |   |      |             | 1954 | NNQ  | NNq     |      |                |      |              |      |      |      |      |      |      |      |      |     |
| 1941/50 **)   | 4,50 | 1,04 | 7. Dez  | 1953 | 108=329 cm a P | 25,1 | 7. Okt   |      |      |      |      |   |      | 1941/50 **) | 7,00 | 1,33 | 21. Nov | 1953 | 114=287 cm a P | 21,7 | 7./8. Okt    |      |      |      |      |      |      |      |      |     |
| seit 1951   | NNQ  | NNq  |         |      |                |      |          |      |      |      |      |   |      | seit 1951   | NNQ  | NNq  |         |      |                |      |              |      |      |      |      |      |      |      |      |     |
|   | 2,50 | 0,58 | 18. Aug | 1953 | 226=303 cm a P | 52,5 | 27. März | 1952 |      |      |      |   |      |             | 6,90 | 1,31 | 6. Sept | 1953 | 235=386 cm a P | 44,7 | 27./28. März | 1952 |      |      |      |      |      |      |      |     |

|  |  |   |  |
|--|--|---|--|
| <b>Eisverhältnisse 1954:</b> keine Angabe.   |  | <b>Eisverhältnisse 1954:</b> Raudeis an 21 Tagen, Raudeis mit Eisbewegung an 7 Tagen, Eisstaud an 10 Tagen.   |  |
| *) Die Werra ist bei Heldra das ganze Jahr über mehr oder minder stark verkrautet, wodurch teilweise ein erhebliches Abweichen der Abflußwerte bei gleichem Wasserstand bedingt ist. |  | *) Die Werra ist bei Ludwigstein in der Vegetationszeit mehr oder minder stark verkrautet, wodurch ein Abweichen der Abflußwerte bei gleichem Pegelstand bedingt ist. |  |
| **) Jahresreihe und Grenzwerte können nicht gebracht werden, da neuer Pegel.   |  | **) Jahresreihe und Grenzwerte können nicht gebracht werden, da neuer Pegel.  |  |
| Wasser- und Schifffahrtsdirektion Hannover   |  | Wasser- und Schifffahrtsdirektion Hannover  |  |

Fulda

Pegel: Kämmerzell

177 km oberhalb der Vereinigung Werra-Fulda  
 PN = NN + 232,08 m. FN = 562 km<sup>2</sup>  
 nach mittleren Tageswasserständen [s. S. 23]

| Tag                                 | Nov   | Dez  | Jan               | Febr              | März | April             | Mai   | Juni  | Juli  | Aug                  | Sept | Okt    |
|-------------------------------------|-------|------|-------------------|-------------------|------|-------------------|-------|-------|-------|----------------------|------|--------|
| <b>Tageswerte (m<sup>3</sup>/s)</b> |       |      |                   |                   |      |                   |       |       |       |                      |      |        |
| 1.                                  | 4,36  | 3,92 | 3,50              | 3,64 <sup>^</sup> | 13,7 | 5,88              | 3,25  | 2,90  | 1,87  | 3,09                 | 3,50 | 15,1   |
| 2.                                  | 3,73  | 3,78 | 3,50              | 3,37 <sup>^</sup> | 6,05 | 8,49              | 3,25  | 3,01  | 2,14  | 2,99                 | 3,30 | 13,7   |
| 3.                                  | 3,61  | 3,64 | 3,37              | 3,37 <sup>^</sup> | 5,10 | 11,1              | 3,37  | 2,90  | 1,87  | 2,71                 | 6,41 | 10,4   |
| 4.                                  | 3,49  | 3,64 | 3,10              | 3,37 <sup>^</sup> | 6,88 | 11,7              | 3,37  | 2,90  | 1,62  | 2,61                 | 5,88 | 8,75   |
| 5.                                  | 3,73  | 3,64 | 3,23              | 3,37 <sup>^</sup> | 7,40 | 12,8              | 3,25  | 2,57  | 1,87  | 2,61                 | 4,38 | 7,87   |
| 6.                                  | 3,12  | 3,50 | 3,10              | 3,37 <sup>^</sup> | 5,41 | 11,3              | 3,12  | 2,57  | 1,87  | 2,42                 | 4,15 | 17,7   |
| 7.                                  | 3,25  | 4,20 | 3,23              | 3,10 <sup>^</sup> | 4,64 | 10,6              | 2,90  | 2,90  | 1,95  | 2,90                 | 3,92 | 29,7   |
| 8.                                  | 3,01  | 4,20 | 3,10              | 3,50 <sup>^</sup> | 4,50 | 10,0              | 2,90  | 3,01  | 1,55  | 2,71                 | 4,03 | 21,6   |
| 9.                                  | 3,37  | 4,06 | 3,37              | 3,37 <sup>^</sup> | 4,64 | 8,49              | 2,68  | 2,79  | 1,70  | 3,19                 | 3,92 | 14,6   |
| 10.                                 | 3,12  | 4,06 | 3,23              | 3,50 <sup>^</sup> | 4,79 | 7,94              | 2,68  | 2,57  | 1,79  | 3,92                 | 3,50 | 12,2   |
| 11.                                 | 3,01  | 4,20 | 3,92              | 3,64 <sup>^</sup> | 4,79 | 6,88              | 2,68  | 2,68  | 1,95  | 3,50                 | 3,82 | 10,7   |
| 12.                                 | 3,12  | 4,20 | 4,06              | 4,35 <sup>^</sup> | 4,64 | 6,71              | 2,57  | 2,68  | 2,23  | 3,92                 | 3,82 | 9,84   |
| 13.                                 | 3,25  | 3,92 | 3,50              | 5,10 <sup>^</sup> | 4,64 | 6,38              | 2,68  | 2,68  | 2,33  | 3,01                 | 3,82 | 8,92   |
| 14.                                 | 3,01  | 4,35 | 5,41              | 4,20 <sup>^</sup> | 4,50 | 6,05              | 2,46  | 3,01  | 2,42  | 3,61                 | 3,61 | 8,21   |
| 15.                                 | 2,90  | 4,06 | 5,72              | 4,20 <sup>^</sup> | 4,35 | 5,88              | 2,25  | 2,79  | 2,90  | 4,15                 | 3,61 | 7,55   |
| 16.                                 | 3,37  | 4,20 | 17,7              | 3,78 <sup>^</sup> | 4,64 | 6,38              | 2,14  | 2,68  | 2,90  | 4,15                 | 3,40 | 7,08   |
| 17.                                 | 3,12  | 3,92 | 10,6              | 3,37 <sup>^</sup> | 4,79 | 6,21              | 2,57  | 2,35  | 2,61  | 4,15                 | 3,71 | 6,77   |
| 18.                                 | 2,79  | 4,06 | 7,58              | 3,23              | 4,94 | 5,88              | 2,46  | 2,68  | 5,47  | 3,71                 | 3,61 | 6,46   |
| 19.                                 | 3,12  | 4,06 | 6,54              | 3,23              | 4,94 | 5,72              | 2,46  | 2,46  | 6,14  | 3,82                 | 3,71 | 6,61   |
| 20.                                 | 2,90  | 3,78 | 5,72              | 3,10              | 5,10 | 6,05              | 2,46  | 2,14  | 4,97  | 3,50                 | 6,14 | 9,09   |
| 21.                                 | 2,90  | 4,35 | 14,7              | 2,96              | 5,25 | 6,88              | 3,12  | 2,35  | 3,61  | 3,40                 | 5,74 | 7,87   |
| 22.                                 | 2,68  | 4,20 | 12,8              | 3,10              | 5,25 | 6,71              | 2,68  | 2,25  | 3,09  | 3,82                 | 5,09 | 6,92   |
| 23.                                 | 2,90  | 3,92 | 8,12              | 3,23              | 4,94 | 5,88              | 2,68  | 2,46  | 2,80  | 6,68                 | 4,61 | 6,46   |
| 24.                                 | 2,90  | 3,64 | 5,88              | 3,10              | 4,79 | 5,41              | 2,90  | 2,46  | 2,71  | 5,21                 | 4,15 | 6,46   |
| 25.                                 | 2,46  | 3,64 | 5,10              | 2,96              | 5,25 | 5,10              | 2,90  | 2,68  | 2,71  | 4,49                 | 3,92 | 9,27   |
| 26.                                 | 2,90  | 3,92 | 4,35              | 18,5              | 5,25 | 5,41              | 2,68  | 2,68  | 3,61  | 4,15                 | 8,15 | 7,87   |
| 27.                                 | 2,90  | 4,35 | 3,78 <sup>^</sup> | 13,7              | 5,72 | 4,94              | 2,14  | 2,68  | 5,74  | 3,71                 | 12,2 | 6,77   |
| 28.                                 | 2,90  | 4,64 | 3,78 <sup>^</sup> | 18,0              | 5,25 | 4,79              | 2,57  | 3,12  | 4,15  | 3,71                 | 12,8 | 7,40   |
| 29.                                 | 2,90  | 4,35 | 3,78 <sup>^</sup> |                   | 4,94 | 4,50              | 2,46  | 2,25  | 3,19  | 5,35                 | 7,84 | 6,46   |
| 30.                                 | 3,25  | 4,50 | 3,78 <sup>^</sup> |                   | 4,94 | 4,50              | 3,37  | 2,68  | 3,30  | 4,15                 | 7,12 | 6,31   |
| 31.                                 |       | 3,64 | 3,37 <sup>^</sup> |                   | 4,94 |                   | 3,01  |       | 3,30  | 3,82                 |      | 7,87   |
| Σ                                   | 94,07 |      | 172,92            | 137,71            |      | 214,56            | 86,01 | 79,88 | 90,36 | 115,76               |      | 312,51 |
|                                     |       |      | 124,54            |                   |      | 166,96            |       |       |       |                      |      | 153,86 |
|                                     |       |      | Wi: n 181; 910,76 |                   |      | So: n 184; 838,38 |       |       |       | Jahr: n 365; 1749,14 |      |        |

Hauptzahlen

|                                   | Nov  | Dez  | Jan  | Febr | März | Apr  | Mai  | Juni | Juli | Aug  | Sept | Okt  | Wi   | So   | Jahr |
|-----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| <b>Abflüsse (m<sup>3</sup>/s)</b> |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| am                                | 25.  | 6.   | oft  | 21., | 15.  | 29., | 16., | 20.  | 8.   | 6.   | 2.   | 30.  |      |      |      |
| NQ                                | 2,46 | 3,50 | 3,10 | 2,96 | 4,35 | 4,50 | 2,14 | 2,14 | 1,55 | 2,42 | 3,30 | 6,31 | 2,46 | 1,55 | 1,55 |
| MQ                                | 3,14 | 4,02 | 5,58 | 4,92 | 5,39 | 7,15 | 2,77 | 2,66 | 2,91 | 3,73 | 5,13 | 10,1 | 5,03 | 4,56 | 4,79 |
| HQ                                | 4,76 | 5,56 | 23,6 | 39,2 | 24,5 | 15,4 | 3,98 | 4,23 | 8,81 | 8,15 | 15,9 | 31,9 | 39,2 | 31,9 | 39,2 |
| am                                | 1.   | 27.  | 21.  | 26.  | 1.   | 5.   | 30.  | 2.   | 18.  | 23.  | 28.  | 7.   |      |      |      |

19—/19—\*)

|     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| NQ  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MNQ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MQ  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MHQ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| HQ  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| HQ  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Spenden (l/s km<sup>2</sup>):

|    | 1954 |      |      | 19—/19—*) |    |      | MNq |
|----|------|------|------|-----------|----|------|-----|
|    | Wi   | So   | Jahr | Wi        | So | Jahr |     |
| Nq | 4,37 | 2,76 | 2,76 |           |    |      |     |
| Mq | 8,95 | 8,11 | 8,52 |           |    |      |     |
| Hq | 69,8 | 56,8 | 69,8 |           |    |      | MHq |

Äußerste Abflüsse (m<sup>3</sup>/s) und Abflußpenden (l/s km<sup>2</sup>)

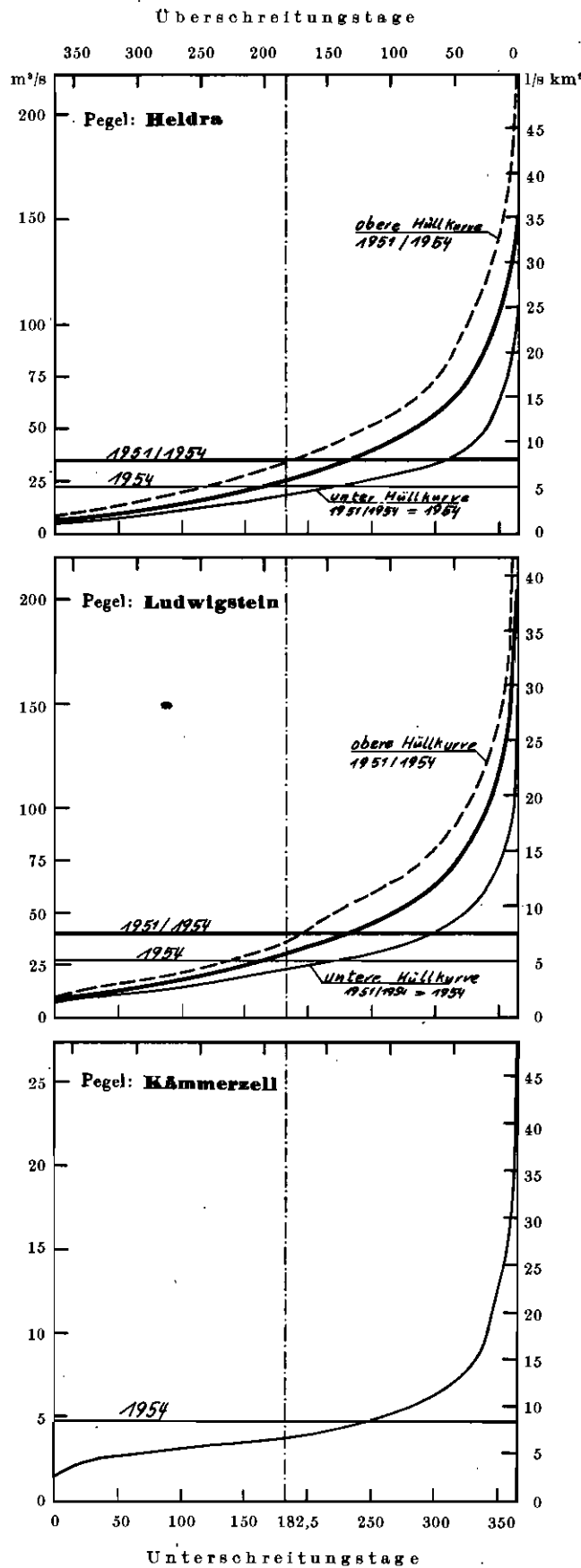
|           | NQ   |      | Hq                | Hq   |
|-----------|------|------|-------------------|------|
|           | NQ   | Nq   |                   |      |
| 1954      | 1,55 | 2,76 | 39,2 = 269 cm a P | 69,8 |
| 19—/19—*) |      |      |                   |      |
| überh.*)  | NNQ  | NNq  | HHQ               | HHq  |
| bekannt   |      |      |                   |      |

Eisverhältnisse 1954: Randeis an 16 Tagen, Eisbewegung an 6 Tagen.

\*) Jahresreihe und Grenzwerte können nicht gebracht werden, da neuer Pegel.

Wasserwirtschaftsam Fulda

Dauerlinien und Jahresmittel der Abflüsse und Abflußpenden





| <b>Fulda</b><br>95,3 km oberhalb der Vereinigung Werra-Fulda<br>PN = NN + 180,50 m a. S. FN = 2515 km <sup>2</sup><br>nach mittleren Tageswasserständen [s. S. 24] |      |      |         |                   |       |          |      |      |      |      |      |      | <b>Pegel: Rotenburg</b>   |            |      |      |             |                   |      |         |      |      |      |      |      | <b>Fulda</b><br>54,59 km oberhalb der Vereinigung Werra-Fulda<br>PN = NN + 151,00 m a. S. FN = 2970 km <sup>2</sup><br>nach 12-Uhr-Ablesungen       |           |            |      |         |                  |                   |         |        |      |      |      |      | <b>Pegel: Grebenau</b>  |           |            |       |         |                  |                   |         |        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |   |       |       |       |       |       |       |       |       |       |       |       |       |                   |                   |                     |                   |                   |                     |
|--|------|------|---------|-------------------|-------|----------|------|------|------|------|------|------|---|------------|------|------|-------------|-------------------|------|---------|------|------|------|------|------|---|-----------|------------|------|---------|------------------|-------------------|---------|--------|------|------|------|------|---|-----------|------------|-------|---------|------------------|-------------------|---------|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----|------|------|------|------|------|------|------|------|------|------|------|------|----|------|------|------|------|------|------|------|------|------|------|------|------|----|------|------|------|------|------|------|------|------|------|------|------|------|----|------|------|------|------|------|------|------|------|------|------|------|------|----|------|------|------|------|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|-------------------|---------------------|-------------------|-------------------|---------------------|
| Nov  | Dez  | Jan  | Febr    | März              | April | Mai      | Juni | Juli | Aug  | Sept | Okt  | Tag  | Nov   | Dez        | Jan  | Febr | März        | April             | Mai  | Juni    | Juli | Aug  | Sept | Okt  | Nov  | Dez   | Jan       | Febr       | März | April   | Mai              | Juni              | Juli    | Aug    | Sept | Okt  | Nov  | Dez  | Jan   | Febr      | März       | April | Mai     | Juni             | Juli              | Aug     | Sept   | Okt  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |   |       |       |       |       |       |       |       |       |       |       |       |       |                   |                   |                     |                   |                   |                     |
| <b>Tageswerte (m<sup>3</sup>/s)*</b>   |      |      |         |                   |       |          |      |      |      |      |      |      | <b>Tageswerte (m<sup>3</sup>/s)*</b>  |            |      |      |             |                   |      |         |      |      |      |      |      | <b>Tageswerte (m<sup>3</sup>/s)*</b>  |           |            |      |         |                  |                   |         |        |      |      |      |      | <b>Tageswerte (m<sup>3</sup>/s)*</b>  |           |            |       |         |                  |                   |         |        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |   |       |       |       |       |       |       |       |       |       |       |       |       |                   |                   |                     |                   |                   |                     |
| 9,60   | 4,20 | 5,90 | 9,20    | 48,4              | 11,0  | 7,40     | 8,50 | 5,30 | 11,5 | 8,70 | 23,9 | 1.   | 13,4  | 4,60       | 9,90 | 16,5 | 51,4        | 13,3              | 9,80 | 8,90    | 6,10 | 14,0 | 10,7 | 28,5 | 2.   | 8,60  | 4,60      | 9,00       | 16,0 | 25,7    | 18,1             | 9,50              | 10,2    | 4,90   | 11,7 | 9,80 | 45,9 | 3.   | 7,40  | 4,60      | 7,80       | 14,5  | 16,3    | 32,0             | 10,2              | 10,5    | 6,70   | 11,0 | 18,4 | 31,6 | 4.   | 6,50 | 4,50 | 9,00 | 14,0 | 16,3 | 44,4 | 9,50 | 10,2 | 7,00 | 9,70 | 19,3 | 32,4 | 5. | 5,90 | 4,20 | 10,8 | 10,5 | 23,9 | 33,5 | 9,50 | 8,90 | 6,10 | 8,50 | 14,4 | 23,0 | 6. | 6,20 | 4,20 | 7,20 | 11,0 | 18,4 | 39,5 | 8,90 | 8,90 | 6,70 | 16,3 | 12,6 | 27,9 | 7. | 5,30 | 3,90 | 14,8 | 14,2 | 14,5 | 32,0 | 9,20 | 7,40 | 7,90 | 11,0 | 11,9 | 68,7 | 8. | 5,60 | 4,70 | 15,5 | 13,9 | 12,4 | 29,5 | 9,20 | 7,10 | 7,00 | 9,40 | 16,1 | 81,4 | 9. | 5,40 | 4,40 | 15,5 | 13,5 | 12,4 | 27,3 | 7,70 | 8,30 | 6,40 | 9,70 | 16,4 | 52,0 | 10. | 4,10 | 4,90 | 16,9 | 13,5 | 11,9 | 23,3 | 7,10 | 7,70 | 6,40 | 10,1 | 13,3 | 40,8 | 11. | 4,90 | 4,40 | 13,4 | 15,7 | 11,9 | 20,5 | 8,00 | 7,70 | 6,70 | 44,0 | 12,3 | 34,3 | 12. | 4,60 | 4,90 | 10,5 | 12,5 | 11,7 | 18,1 | 7,10 | 6,50 | 6,70 | 22,9 | 12,1 | 30,4 | 13. | 4,60 | 4,40 | 9,00 | 16,1 | 11,3 | 16,5 | 7,10 | 6,50 | 10,6 | 19,7 | 13,0 | 27,3 | 14. | 5,10 | 4,90 | 14,1 | 18,3 | 11,1 | 15,4 | 6,50 | 8,00 | 10,6 | 17,0 | 13,1 | 24,6 | 15. | 4,90 | 4,90 | 13,7 | 12,5 | 10,8 | 14,7 | 6,20 | 7,10 | 9,20 | 16,3 | 10,7 | 22,7 | 16. | 4,90 | 3,90 | 26,6 | 13,3 | 10,8 | 15,8 | 4,70 | 6,80 | 8,80 | 17,0 | 10,7 | 21,1 | 17. | 4,40 | 4,60 | 60,2 | 18,3 | 11,7 | 16,5 | 4,70 | 6,50 | 12,7 | 17,0 | 11,4 | 19,6 | 18. | 4,40 | 4,60 | 33,0 | 7,30 | 11,5 | 15,8 | 4,10 | 6,50 | 13,4 | 16,7 | 12,1 | 19,1 | 19. | 5,00 | 5,40 | 25,8 | 6,30 | 11,7 | 15,1 | 5,60 | 5,30 | 17,9 | 13,6 | 11,6 | 17,9 | 20. | 4,70 | 4,90 | 17,2 | 8,30 | 11,9 | 12,3 | 5,00 | 6,80 | 30,5 | 13,6 | 14,6 | 21,3 | 21. | 4,70 | 4,80 | 26,6 | 9,30 | 13,6 | 16,5 | 7,10 | 6,50 | 25,5 | 12,3 | 19,5 | 25,5 | 22. | 4,70 | 4,80 | 62,6 | 6,30 | 13,6 | 19,3 | 6,80 | 7,70 | 18,7 | 11,7 | 16,9 | 20,6 | 23. | 4,40 | 5,10 | 37,0 | 7,30 | 13,1 | 21,3 | 8,00 | 6,50 | 14,1 | 16,7 | 15,6 | 19,1 | 24. | 4,40 | 5,30 | 26,2 | 7,00 | 12,9 | 16,9 | 8,60 | 7,70 | 12,3 | 20,5 | 13,3 | 18,6 | 25. | 4,30 | 4,90 | 14,1 | 5,70 | 12,6 | 14,0 | 9,20 | 6,50 | 11,3 | 22,9 | 13,0 | 21,5 | 26. | 4,50 | 4,90 | 14,8 | 20,0 | 14,0 | 13,3 | 7,40 | 5,30 | 15,1 | 16,3 | 13,5 | 27,0 | 27. | 4,80 | 5,20 | 11,7 | 56,0 | 14,7 | 12,7 | 7,10 | 7,10 | 18,7 | 14,3 | 24,4 | 22,1 | 28. | 4,80 | 7,30 | 12,0 | 24,5 | 16,9 | 11,9 | 5,00 | 6,50 | 28,0 | 12,3 | 36,2 | 21,5 | 29. | 4,30 | 9,10 | 11,0 | 13,0 | 11,2 | 5,30 | 6,20 | 22,3 | 11,7 | 29,3 | 22,1 | 30. | 4,00 | 8,80 | 11,0 | 12,6 | 9,20 | 8,90 | 6,50 | 18,3 | 13,6 | 23,8 | 19,4 | 31. | 7,30 | 10,5 | 12,6 | 7,70 | 17,5 | 12,0 | 22,4 | Σ | 160,8 | 159,0 | 577,4 | 402,3 | 467,2 | 599,9 | 230,7 | 222,3 | 394,1 | 473,5 | 470,0 | 910,3 | Wi: n 181; 1906,6 | So: n 184; 2296,3 | Jahr: n 365; 4202,9 | Wi: n 181; 2366,6 | So: n 184; 2700,9 | Jahr: n 365; 5067,5 |
| <b>Hauptzahlen</b>   |      |      |         |                   |       |          |      |      |      |      |      |      | <b>Hauptzahlen</b>  |            |      |      |             |                   |      |         |      |      |      |      |      | <b>Hauptzahlen</b>  |           |            |      |         |                  |                   |         |        |      |      |      |      | <b>Hauptzahlen</b>  |           |            |       |         |                  |                   |         |        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |   |       |       |       |       |       |       |       |       |       |       |       |       |                   |                   |                     |                   |                   |                     |
| Nov  | Dez  | Jan  | Febr    | März              | Apr   | Mai      | Juni | Juli | Aug  | Sept | Okt  | Wi   | So  | Jahr       | Nov  | Dez  | Jan         | Febr              | März | Apr     | Mai  | Juni | Juli | Aug  | Sept | Okt   | Wi        | So         | Jahr | Nov     | Dez              | Jan               | Febr    | März   | Apr  | Mai  | Juni | Juli | Aug   | Sept      | Okt        | Wi    | So      | Jahr             | Nov               | Dez     | Jan    | Febr | März | Apr  | Mai  | Juni | Juli | Aug  | Sept | Okt  | Wi   | So   | Jahr |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |   |       |       |       |       |       |       |       |       |       |       |       |       |                   |                   |                     |                   |                   |                     |
| Abflüsse (m <sup>3</sup> /s) 1954  |      |      |         |                   |       |          |      |      |      |      |      |      | Abflüsse (m <sup>3</sup> /s) 1954   |            |      |      |             |                   |      |         |      |      |      |      |      | Abflüsse (m <sup>3</sup> /s) 1954   |           |            |      |         |                  |                   |         |        |      |      |      |      | Abflüsse (m <sup>3</sup> /s) 1954   |           |            |       |         |                  |                   |         |        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |   |       |       |       |       |       |       |       |       |       |       |       |       |                   |                   |                     |                   |                   |                     |
| 23.  | 22.  | 6.   | 25.     | 15.               | 30.   | 17.      | 29.  | 11.  | 8.   | 2.   | 19.  |      |   | 30.        | 7.   | 6.   | 25.         | 15.               | 30.  | 17.     | 29.  | 11.  | 8.   | 2.   | 19.  |   |           | 30.        | 7.   | 6.      | 25.              | 15.               | 30.     | 17.    | 29.  | 11.  | 8.   | 2.   | 19.   |           |            | 30.   | 7.      | 6.               | 25.               | 15.     | 30.    | 17.  | 29.  | 11.  | 8.   | 2.   | 19.  |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |   |       |       |       |       |       |       |       |       |       |       |       |       |                   |                   |                     |                   |                   |                     |
| 3,60   | 3,40 | 4,10 | 5,60    | 7,80              | 8,10  | 4,10     | 4,90 | 5,00 | 7,00 | 8,10 | 13,9 | 3,40 | 4,10  | 3,40       | 4,00 | 3,90 | 7,20        | 5,70              | 10,8 | 9,20    | 4,10 | 5,30 | 4,90 | 8,50 | 9,80 | 17,9  | 3,90      | 4,10       | 3,90 | 4,00    | 3,90             | 7,20              | 5,70    | 10,8   | 9,20 | 4,10 | 5,30 | 4,90 | 8,50  | 9,80      | 17,9       | 3,90  | 4,10    | 3,90             | 4,00              | 3,90    | 7,20   | 5,70 | 10,8 | 9,20 | 4,10 | 5,30 | 4,90 | 8,50 | 9,80 | 17,9 | 3,90 | 4,10 | 3,90 |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |   |       |       |       |       |       |       |       |       |       |       |       |       |                   |                   |                     |                   |                   |                     |
| 4,45   | 4,22 | 14,8 | 11,5    | 12,1              | 16,3  | 6,62     | 6,66 | 9,57 | 13,0 | 13,8 | 25,2 | 10,5 | 12,5  | 11,5       | 5,36 | 5,13 | 18,6        | 14,4              | 15,1 | 20,0    | 7,44 | 7,41 | 12,7 | 15,3 | 15,7 | 29,4  | 13,1      | 14,7       | 13,9 | 5,36    | 5,13             | 18,6              | 14,4    | 15,1   | 20,0 | 7,44 | 7,41 | 12,7 | 15,3  | 15,7      | 29,4       | 13,1  | 14,7    | 13,9             | 5,36              | 5,13    | 18,6   | 14,4 | 15,1 | 20,0 | 7,44 | 7,41 | 12,7 | 15,3 | 15,7 | 29,4 | 13,1 | 14,7 | 13,9 |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |   |       |       |       |       |       |       |       |       |       |       |       |       |                   |                   |                     |                   |                   |                     |
| 9,60   | 5,80 | 62,3 | 92,2    | 57,7              | 39,9  | 14,4     | 14,1 | 31,7 | 41,9 | 36,8 | 82,2 | 92,2 | 82,2  | 92,2       | 13,4 | 9,10 | 62,6        | 56,0              | 51,4 | 44,4    | 10,2 | 10,5 | 30,5 | 44,0 | 36,2 | 81,4  | 62,6      | 81,4       | 81,4 | 13,4    | 9,10             | 62,6              | 56,0    | 51,4   | 44,4 | 10,2 | 10,5 | 30,5 | 44,0  | 36,2      | 81,4       | 62,6  | 81,4    | 81,4             | 13,4              | 9,10    | 62,6   | 56,0 | 51,4 | 44,4 | 10,2 | 10,5 | 30,5 | 44,0 | 36,2 | 81,4 | 62,6 | 81,4 | 81,4 |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |   |       |       |       |       |       |       |       |       |       |       |       |       |                   |                   |                     |                   |                   |                     |
| 1.   | 29.  | 22.  | 27.     | 1.                | 4.    | 31.      | 2.   | 19.  | 11.  | 28.  | 7,8. |      |   | 1.         | 29.  | 22.  | 27.         | 1.                | 4.   | 31.     | 2.   | 19.  | 11.  | 28.  | 7,8. |   |           | 1.         | 29.  | 22.     | 27.              | 1.                | 4.      | 31.    | 2.   | 19.  | 11.  | 28.  | 7,8.  |           |            | 1.    | 29.     | 22.              | 27.               | 1.      | 4.     | 31.  | 2.   | 19.  | 11.  | 28.  | 7,8. |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |   |       |       |       |       |       |       |       |       |       |       |       |       |                   |                   |                     |                   |                   |                     |
| 19—/19—**)   |      |      |         |                   |       |          |      |      |      |      |      |      | 19—/19—**)  |            |      |      |             |                   |      |         |      |      |      |      |      | 19—/19—**)  |           |            |      |         |                  |                   |         |        |      |      |      |      | 19—/19—**)  |           |            |       |         |                  |                   |         |        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |   |       |       |       |       |       |       |       |       |       |       |       |       |                   |                   |                     |                   |                   |                     |
| Spenden (l/s km <sup>2</sup> ):  |      |      |         |                   |       |          |      |      |      |      |      |      | Spenden (l/s km <sup>2</sup> ):   |            |      |      |             |                   |      |         |      |      |      |      |      | Spenden (l/s km <sup>2</sup> ):   |           |            |      |         |                  |                   |         |        |      |      |      |      | Spenden (l/s km <sup>2</sup> ):   |           |            |       |         |                  |                   |         |        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |   |       |       |       |       |       |       |       |       |       |       |       |       |                   |                   |                     |                   |                   |                     |
| 1954   |      |      |         |                   |       |          |      |      |      |      |      |      | 1954  |            |      |      |             |                   |      |         |      |      |      |      |      | 1954  |           |            |      |         |                  |                   |         |        |      |      |      |      | 1954  |           |            |       |         |                  |                   |         |        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |   |       |       |       |       |       |       |       |       |       |       |       |       |                   |                   |                     |                   |                   |                     |
|  | Wi   | So   | Jahr    |                   |       |          |      |      |      |      |      |      |   |            | Wi   | So   | Jahr        |                   |      |         |      |      |      |      |      |   |           |            | Wi   | So      | Jahr             |                   |         |        |      |      |      |      |   |           |            |       | Wi      | So               | Jahr              |         |        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |   |       |       |       |       |       |       |       |       |       |       |       |       |                   |                   |                     |                   |                   |                     |
| Nq   | 1,35 | 1,63 | 1,35    |                   |       |          |      |      |      |      |      |      | MNq   | Nq         | 1,31 | 1,38 | 1,31        |                   |      |         |      |      |      |      |      |   | MNq       | Nq         | 1,31 | 1,38    | 1,31             |                   |         |        |      |      |      |      |   |           | MNq        | Nq    | 1,31    | 1,38             | 1,31              |         |        |      |      |      |      |      |      |      | MNq  |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |   |       |       |       |       |       |       |       |       |       |       |       |       |                   |                   |                     |                   |                   |                     |
| Mq   | 4,17 | 4,97 | 4,57    |                   |       |          |      |      |      |      |      |      | Mq  | Mq         | 4,41 | 4,95 | 4,68        |                   |      |         |      |      |      |      |      |   | Mq        | Mq         | 4,41 | 4,95    | 4,68             |                   |         |        |      |      |      |      |   |           | Mq         | Mq    | 4,41    | 4,95             | 4,68              |         |        |      |      |      |      |      |      |      | Mq   |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |   |       |       |       |       |       |       |       |       |       |       |       |       |                   |                   |                     |                   |                   |                     |
| Hq   | 30,7 | 32,7 | 30,7    |                   |       |          |      |      |      |      |      |      | MHq   | Hq         | 21,1 | 27,4 | 27,4        |                   |      |         |      |      |      |      |      |   | MHq       | Hq         | 21,1 | 27,4    | 27,4             |                   |         |        |      |      |      |      |   |           | MHq        | Hq    | 21,1    | 27,4             | 27,4              |         |        |      |      |      |      |      |      |      | MHq  |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |   |       |       |       |       |       |       |       |       |       |       |       |       |                   |                   |                     |                   |                   |                     |
| Äußerste Abflüsse (m <sup>3</sup> /s) und Abflußspenden (l/s km <sup>2</sup> )   |      |      |         |                   |       |          |      |      |      |      |      |      | Äußerste Abflüsse (m <sup>3</sup> /s) und Abflußspenden (l/s km <sup>2</sup> )  |            |      |      |             |                   |      |         |      |      |      |      |      | Äußerste Abflüsse (m <sup>3</sup> /s) und Abflußspenden (l/s km <sup>2</sup> )  |           |            |      |         |                  |                   |         |        |      |      |      |      | Äußerste Abflüsse (m <sup>3</sup> /s) und Abflußspenden (l/s km <sup>2</sup> )  |           |            |       |         |                  |                   |         |        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |   |       |       |       |       |       |       |       |       |       |       |       |       |                   |                   |                     |                   |                   |                     |
| 1954   | NQ   | Nq   |         | HQ                | Hq    |          |      |      |      |      |      |      |   | 1954       | NQ   | Nq   |             | HQ                | Hq   |         |      |      |      |      |      |   |           | 1954       | NQ   | Nq      |                  | HQ                | Hq      |        |      |      |      |      |   |           | 1954       | NQ    | Nq      |                  | HQ                | Hq      |        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |   |       |       |       |       |       |       |       |       |       |       |       |       |                   |                   |                     |                   |                   |                     |
| 1941/50**)   | 3,40 | 1,35 | 22. Dez | 92,2 = 262 cm a P | 30,7  | 27. Febr |      |      |      |      |      |      |   | 1941/45**) | 3,90 | 1,31 | 7., 16. Dez | 81,4 = 202 cm a P | 27,4 | 8. Okt  |      |      |      |      |      |   |           | 1941/45**) | 3,90 | 1,31    | 7., 16. Dez      | 81,4 = 202 cm a P | 27,4    | 8. Okt |      |      |      |      |   |           | 1941/45**) | 3,90  | 1,31    | 7., 16. Dez      | 81,4 = 202 cm a P | 27,4    | 8. Okt |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |   |       |       |       |       |       |       |       |       |       |       |       |       |                   |                   |                     |                   |                   |                     |
| seit 1951  | NNQ  | NNq  |         | HHQ               | HHq   |          |      |      |      |      |      |      |   | seit 1951  | NNQ  | NNq  |             | HHQ               | HHq  |         |      |      |      |      |      |   | seit 1951 | NNQ        | NNq  |         | HHQ              | HHq               |         |        |      |      |      |      |   | seit 1951 | NNQ        | NNq   |         | HHQ              | HHq               |         |        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |   |       |       |       |       |       |       |       |       |       |       |       |       |                   |                   |                     |                   |                   |                     |
|  | 2,90 | 1,15 | 6. Sept | 194 = 351 cm a P  | 77,1  | 14. Nov  |      |      |      |      |      |      |   |            | 2,50 | 0,84 | 8. Juli     | 206 = 281 cm a P  | 69,4 | 15. Nov |      |      |      |      |      |   |           | 2,50       | 0,84 | 8. Juli | 206 = 281 cm a P | 69,4              | 15. Nov |        |      |      |      |      |   |           | 2,50       | 0,84  | 8. Juli | 206 = 281 cm a P | 69,4              | 15. Nov |        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |   |       |       |       |       |       |       |       |       |       |       |       |       |                   |                   |                     |                   |                   |                     |
| Eisverhältnisse 1954: Randeis an 3 Tagen, Eisstand an 11 Tagen, Eisbewegung an 6 Tagen.  |      |      |         |                   |       |          |      |      |      |      |      |      | Eisverhältnisse 1954: keine Angaben.  |            |      |      |             |                   |      |         |      |      |      |      |      | Eisverhältnisse 1954: keine Angaben.  |           |            |      |         |                  |                   |         |        |      |      |      |      | Eisverhältnisse 1954: keine Angaben.  |           |            |       |         |                  |                   |         |        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |   |       |       |       |       |       |       |       |       |       |       |       |       |                   |                   |                     |                   |                   |                     |
| *) Die Fulda ist bei Rotenburg in der Vegetationszeit mehr oder minder verkrautet, wodurch ein Abweichen der Abflußwerte bei gleichem Pegelstand bedingt ist.      |      |      |         |                   |       |          |      |      |      |      |      |      | *) Die Fulda ist bei Grebenau fast das ganze Jahr über stark verkrautet, wodurch ein Abweichen der Abflußwerte bei gleichem Pegelstand bedingt ist. |            |      |      |             |                   |      |         |      |      |      |      |      | *) Die Fulda ist bei Grebenau fast das ganze Jahr über stark verkrautet, wodurch ein Abweichen der Abflußwerte bei gleichem Pegelstand bedingt ist. |           |            |      |         |                  |                   |         |        |      |      |      |      | *) Die Fulda ist bei Grebenau fast das ganze Jahr über stark verkrautet, wodurch ein Abweichen der Abflußwerte bei gleichem Pegelstand bedingt ist. |           |            |       |         |                  |                   |         |        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |   |       |       |       |       |       |       |       |       |       |       |       |       |                   |                   |                     |                   |                   |                     |
| **) Jahresreihe und Grenzwerte können nicht gebracht werden, da neue Abflußkurve.  |      |      |         |                   |       |          |      |      |      |      |      |      | **) Jahresreihe und Grenzwerte können nicht gebracht werden, da neuer Pegel.  |            |      |      |             |                   |      |         |      |      |      |      |      | **) Jahresreihe und Grenzwerte können nicht gebracht werden, da neuer Pegel.  |           |            |      |         |                  |                   |         |        |      |      |      |      | **) Jahresreihe und Grenzwerte können nicht gebracht werden, da neuer Pegel.  |           |            |       |         |                  |                   |         |        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |   |       |       |       |       |       |       |       |       |       |       |       |       |                   |                   |                     |                   |                   |                     |
| Wasser- und Schifffahrtsdirektion Hannover   |      |      |         |                   |       |          |      |      |      |      |      |      | Wasser- und Schifffahrtsdirektion Hannover  |            |      |      |             |                   |      |         |      |      |      |      |      | Wasser- und Schifffahrtsdirektion Hannover  |           |            |      |         |                  |                   |         |        |      |      |      |      | Wasser- und Schifffahrtsdirektion Hannover  |           |            |       |         |                  |                   |         |        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |      |      |      |      |     |      |      |      |      |      |      |      |   |       |       |       |       |       |       |       |       |       |       |       |       |                   |                   |                     |                   |                   |                     |

Fulda

Pegel: Guntershausen

43,58 km oberhalb der Vereinigung Werra-Fulda  
 PN = NN + 140,86 m a. S. FN = 6360 km<sup>2</sup>  
 nach mittleren Tageswasserständen

| Tag                                 | Nov               | Dez   | Jan               | Febr  | März                 | April | Mai   | Juni  | Juli  | Aug   | Sept   | Okt    |
|-------------------------------------|-------------------|-------|-------------------|-------|----------------------|-------|-------|-------|-------|-------|--------|--------|
| <b>Tageswerte (m<sup>3</sup>/s)</b> |                   |       |                   |       |                      |       |       |       |       |       |        |        |
| 1.                                  | 28,5              | 13,5  | 14,2              | 32,8  | 68,8                 | 18,3  | 19,0  | 30,7  | 26,9  | 19,8  | 33,6   | 69,0   |
| 2.                                  | 21,5              | 13,5  | 13,2              | 32,8  | 48,0                 | 33,3  | 19,0  | 28,9  | 27,5  | 18,8  | 36,5   | 100    |
| 3.                                  | 18,1              | 13,7  | 11,2              | 29,8  | 29,0                 | 45,8  | 19,0  | 25,0  | 28,2  | 17,7  | 45,3   | 79,3   |
| 4.                                  | 16,7              | 13,1  | 11,2              | 29,8  | 27,8                 | 42,4  | 19,0  | 25,0  | 28,8  | 19,3  | 39,0   | 69,0   |
| 5.                                  | 16,7              | 12,9  | 12,2              | 26,8  | 31,8                 | 50,0  | 18,5  | 24,5  | 28,8  | 24,3  | 34,2   | 54,3   |
| 6.                                  | 16,7              | 12,9  | 10,7              | 24,7  | 30,3                 | 49,1  | 18,5  | 24,5  | 28,8  | 33,8  | 33,3   | 89,6   |
| 7.                                  | 15,3              | 12,0  | 10,7              | 27,6  | 25,3                 | 46,6  | 18,0  | 23,9  | 29,4  | 30,8  | 31,9   | 100    |
| 8.                                  | 15,3              | 12,8  | 12,7              | 19,0  | 21,9                 | 42,2  | 17,0  | 25,0  | 31,3  | 26,8  | 35,8   | 148    |
| 9.                                  | 15,3              | 12,4  | 12,7              | 17,4  | 19,8                 | 40,6  | 17,5  | 25,0  | 30,0  | 24,3  | 36,6   | 121    |
| 10.                                 | 15,3              | 12,4  | 12,7              | 16,9  | 19,2                 | 36,4  | 19,0  | 23,9  | 29,4  | 20,4  | 33,6   | 83,6   |
| 11.                                 | 15,3              | 12,1  | 13,2              | 16,9  | 18,7                 | 32,6  | 19,5  | 23,4  | 30,7  | 33,1  | 32,7   | 69,0   |
| 12.                                 | 14,3              | 12,1  | 14,8              | 17,9  | 18,7                 | 31,5  | 20,3  | 25,0  | 31,3  | 29,3  | 32,6   | 66,9   |
| 13.                                 | 13,8              | 12,1  | 19,0              | 18,5  | 18,2                 | 29,9  | 21,1  | 25,9  | 30,7  | 23,6  | 33,6   | 59,5   |
| 14.                                 | 14,3              | 12,6  | 22,8              | 19,6  | 17,7                 | 28,8  | 21,1  | 25,3  | 26,3  | 23,0  | 36,6   | 54,3   |
| 15.                                 | 14,3              | 12,3  | 22,8              | 19,0  | 17,7                 | 28,8  | 18,5  | 28,8  | 27,5  | 24,9  | 35,2   | 49,1   |
| 16.                                 | 14,3              | 12,3  | 41,1              | 15,8  | 17,7                 | 29,4  | 29,1  | 28,2  | 26,9  | 24,9  | 40,6   | 49,1   |
| 17.                                 | 13,8              | 12,3  | 69,8              | 14,2  | 17,7                 | 29,9  | 25,9  | 27,5  | 25,0  | 22,5  | 58,8   | 44,1   |
| 18.                                 | 13,8              | 12,2  | 46,7              | 13,2  | 19,8                 | 29,4  | 24,2  | 27,5  | 25,0  | 21,4  | 74,4   | 40,1   |
| 19.                                 | 13,8              | 12,3  | 37,0              | 12,7  | 20,8                 | 28,3  | 27,8  | 27,5  | 27,5  | 20,9  | 75,9   | 40,1   |
| 20.                                 | 13,8              | 12,1  | 31,3              | 12,2  | 21,4                 | 28,8  | 27,8  | 27,5  | 36,6  | 22,5  | 61,6   | 38,1   |
| 21.                                 | 13,8              | 12,3  | 39,4              | 11,7  | 22,4                 | 30,4  | 27,8  | 28,8  | 30,0  | 25,5  | 65,7   | 43,1   |
| 22.                                 | 14,3              | 12,3  | 68,6              | 11,2  | 22,4                 | 32,0  | 26,6  | 28,8  | 25,0  | 25,5  | 42,1   | 42,1   |
| 23.                                 | 13,4              | 12,2  | 54,8              | 10,7  | 21,4                 | 33,9  | 27,8  | 29,4  | 22,9  | 28,0  | 43,0   | 43,1   |
| 24.                                 | 13,0              | 12,2  | 34,5              | 10,7  | 20,8                 | 30,9  | 25,3  | 28,8  | 21,8  | 27,4  | 40,7   | 43,1   |
| 25.                                 | 13,0              | 12,2  | 24,0              | 10,7  | 20,8                 | 29,4  | 25,3  | 28,8  | 26,9  | 26,8  | 40,4   | 58,5   |
| 26.                                 | 12,8              | 12,2  | 27,6              | 26,8  | 20,3                 | 28,3  | 25,9  | 28,2  | 20,2  | 24,3  | 40,9   | 58,5   |
| 27.                                 | 12,5              | 12,8  | 26,1              | 71,0  | 20,8                 | 27,8  | 26,6  | 28,8  | 23,9  | 29,3  | 51,8   | 58,5   |
| 28.                                 | 12,5              | 13,8  | 25,3              | 59,2  | 22,9                 | 27,8  | 28,5  | 28,2  | 30,7  | 24,3  | 63,6   | 44,5   |
| 29.                                 | 12,1              | 13,2  | 29,1              |       | 21,9                 | 26,7  | 29,7  | 27,5  | 27,5  | 20,9  | 56,7   | 48,1   |
| 30.                                 | 12,5              | 12,8  | 29,1              |       | 20,3                 | 26,2  | 35,4  | 26,3  | 23,4  | 21,9  | 51,2   | 54,3   |
| 31.                                 |                   | 12,5  | 28,6              |       | 19,8                 |       | 29,7  |       | 22,4  | 24,3  |        | 48,1   |
| Σ                                   | 450,8             | 390,1 | 827,1             | 629,6 | 744,1                | 995,5 | 728,4 | 806,6 | 851,3 | 760,3 | 1337,9 | 1966,0 |
|                                     | Wi: n 181; 4037,2 |       | So: n 184; 6450,5 |       | Jahr: n 365; 10487,7 |       |       |       |       |       |        |        |

Hauptzahlen

|                                   | Nov  | Dez  | Jan   | Febr | März | Apr  | Mai  | Juni | Juli | Aug  | Sept | Okt  | Wi   | So   | Jahr |
|-----------------------------------|------|------|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| <b>Abflüsse (m<sup>3</sup>/s)</b> |      |      |       |      |      |      |      |      |      |      |      |      |      |      |      |
| am                                | 29.  | oft  | 6.,7. | oft  | oft  | 1.   | 8.   | 11.  | 26.  | 3.   | 7.   | 20.  |      |      |      |
| NQ                                | 12,1 | 12,1 | 10,7  | 10,7 | 17,7 | 18,3 | 17,0 | 23,4 | 20,2 | 17,7 | 31,9 | 38,1 | 10,7 | 17,0 | 10,7 |
| MQ                                | 15,0 | 12,6 | 26,7  | 22,5 | 24,0 | 33,2 | 23,5 | 26,9 | 27,5 | 24,5 | 44,6 | 63,4 | 22,3 | 35,1 | 28,7 |
| HQ                                | 28,5 | 13,8 | 76,1  | 108  | 76,0 | 57,8 | 36,9 | 30,1 | 41,3 | 44,0 | 76,9 | 148  | 108  | 148  | 148  |
| am                                | 1.   | 28.  | 17.   | 27.  | 1.   | 4.   | 30.  | 1.   | 20.  | 11.  | 19.  | 8.   |      |      |      |

19—/19—\*)

Spenden (l/s km<sup>2</sup>):

|     | 1954 |      |      | 19—/19—*) |    |      |
|-----|------|------|------|-----------|----|------|
|     | Wi   | So   | Jahr | Wi        | So | Jahr |
| Nq  | 1,68 | 2,67 | 1,68 |           |    |      |
| Mq  | 3,51 | 5,52 | 4,51 |           |    |      |
| Hq  | 17,0 | 23,3 | 23,3 |           |    |      |
| MNq |      |      |      |           |    |      |
| Mq  |      |      |      |           |    |      |
| MHq |      |      |      |           |    |      |

Äußerste Abflüsse (m<sup>3</sup>/s) und Abflußspenden (l/s km<sup>2</sup>)

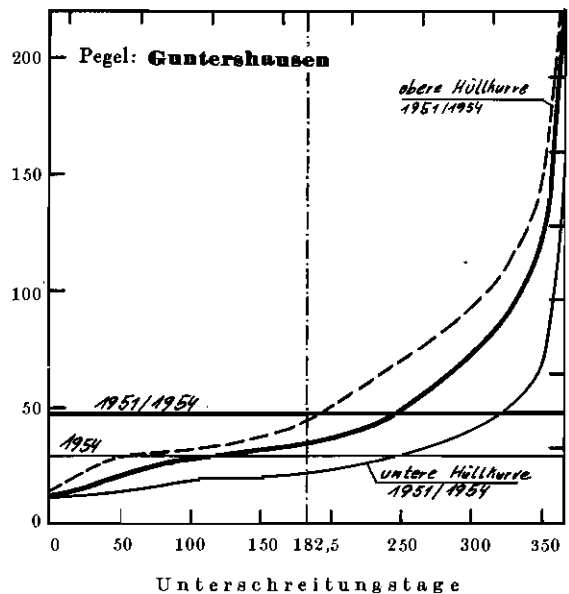
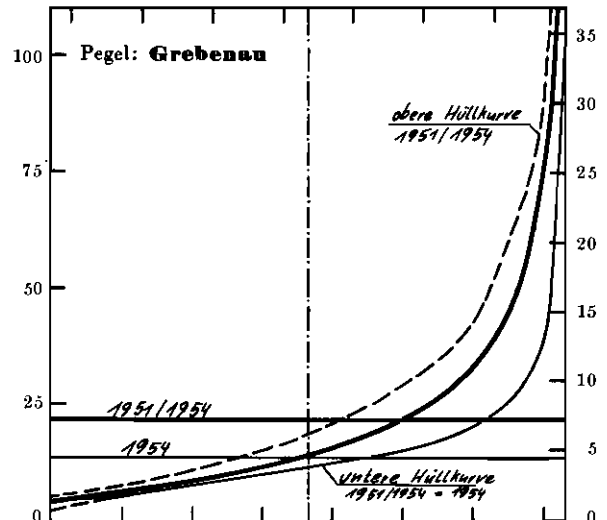
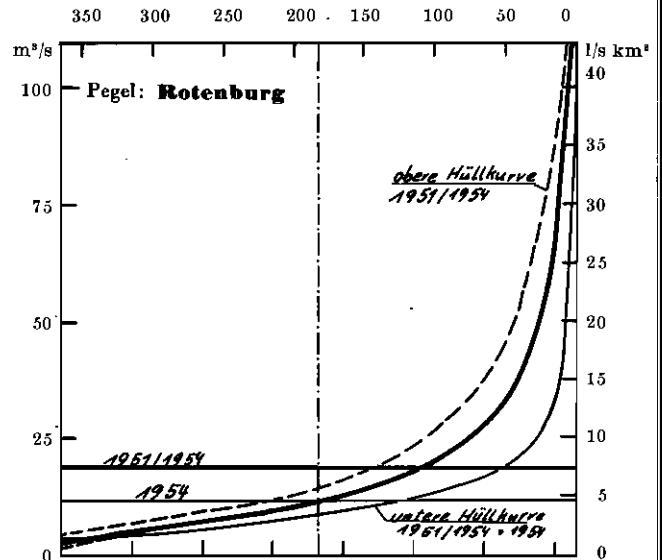
|           | NQ   | Nq   | HQ               | Hq           |
|-----------|------|------|------------------|--------------|
| 1954      | 10,7 | 1,68 | 148 = 238 cm a P | 23,3         |
| 1941/50*) |      |      |                  |              |
| seit 1951 | NNQ  | NNq  | HHQ              | HHq          |
|           | 10,7 | 1,68 | 256 = 309 cm a P | 40,3         |
|           |      |      |                  | 20. Jan 1951 |

Eisverhältnisse 1954: keine Angaben.

\*) Jahresreihe und Grenzwerte können nicht gebracht werden, da Krautwuchs, Brückentrümmereinfluß und Veränderungen am Flußlauf unmittelbare Vergleiche früherer Beobachtungen mit den jetzigen nicht zulassen.

Dauerlinien und Jahresmittel der Abflüsse und Abflußspenden

Überschreitungstage



| Eder  |                   |                   |                   |        |        |        |        |        |      |      |      |                      | Eder  |                   |                   |                   |       |         |       |       |       |       |                      |       |  |
|---|-------------------|-------------------|-------------------|--------|--------|--------|--------|--------|------|------|------|----------------------|---|-------------------|-------------------|-------------------|-------|---------|-------|-------|-------|-------|----------------------|-------|--|
| Pegel: Schmittlotheim   |                   |                   |                   |        |        |        |        |        |      |      |      |                      | Pegel: Affoldern  |                   |                   |                   |       |         |       |       |       |       |                      |       |  |
| 74,5 km oberhalb der Mündung<br>PN = NN + 246,82 m. FN = 1202 km <sup>2</sup><br>nach mittleren Tageswasserständen [s. S. 24] |                   |                   |                   |        |        |        |        |        |      |      |      |                      | 43,6 km oberhalb der Mündung<br>PN = NN + 193,13 m. FN = 1452 km <sup>2</sup><br>nach mittleren Tageswasserständen [s. S. 25] |                   |                   |                   |       |         |       |       |       |       |                      |       |  |
| Nov   | Dez               | Jan               | Febr              | März   | April  | Mai    | Juni   | Juli   | Aug  | Sept | Okt  | Tag                  | Nov   | Dez               | Jan               | Febr              | März  | April   | Mai   | Juni  | Juli  | Aug   | Sept                 | Okt   |  |
| <b>Tageswerte (m<sup>3</sup>/s)</b>   |                   |                   |                   |        |        |        |        |        |      |      |      |                      | <b>Tageswerte (m<sup>3</sup>/s)*</b>  |                   |                   |                   |       |         |       |       |       |       |                      |       |  |
| 5,40  | 2,00              | 4,70 <sup>†</sup> | 5,10 <sup>†</sup> | 28,7   | 28,3   | 6,20   | 5,50   | 3,10   | 24,0 | 16,6 | 47,8 | 1.                   | 5,70  | 3,50              | 2,70 <sup>†</sup> | 4,00 <sup>†</sup> | 4,30  | 6,40    | 6,50  | 17,7  | 32,9  | 8,30  | 16,2                 | 18,3  |  |
| 4,20  | 1,80              | 4,70 <sup>†</sup> | 4,20              | 18,0   | 46,4   | 6,50   | 5,80   | 2,70   | 21,1 | 13,6 | 53,0 | 2.                   | 5,40  | 3,50              | 2,70 <sup>†</sup> | 4,20 <sup>†</sup> | 4,40  | 6,40    | 7,20  | 15,1  | 32,5  | 9,70  | 17,6                 | 18,3  |  |
| 4,20  | 2,00              | 4,60 <sup>†</sup> | 4,50              | 19,4   | 59,0   | 6,90   | 6,40   | 2,20   | 17,9 | 12,0 | 49,6 | 3.                   | 5,70  | 3,50              | 2,70 <sup>†</sup> | 4,00 <sup>†</sup> | 4,40  | 6,30    | 7,20  | 14,5  | 32,2  | 12,6  | 15,2                 | 18,3  |  |
| 3,80  | 2,20              | 4,50 <sup>†</sup> | 4,90              | 39,5   | 65,3   | 6,50   | 6,00   | 2,50   | 15,2 | 10,5 | 43,5 | 4.                   | 5,70  | 3,50              | 2,70 <sup>†</sup> | 3,60 <sup>†</sup> | 4,50  | 6,30    | 6,80  | 14,9  | 31,7  | 18,3  | 13,3                 | 17,8  |  |
| 3,60  | 2,40              | 3,80 <sup>†</sup> | 4,70              | 33,1   | 62,8   | 6,20   | 5,00   | 3,70   | 13,4 | 9,60 | 36,2 | 5.                   | 5,40  | 3,50              | 2,70 <sup>†</sup> | 4,00 <sup>†</sup> | 4,60  | 6,20    | 7,20  | 15,4  | 31,5  | 22,9  | 13,8                 | 17,4  |  |
| 3,20  | 2,20              | 3,40 <sup>†</sup> | 5,80              | 20,2   | 52,5   | 5,50   | 4,20   | 4,70   | 11,7 | 9,00 | 36,2 | 6.                   | 5,40  | 3,60              | 2,70 <sup>†</sup> | 4,00 <sup>†</sup> | 4,70  | 6,20    | 7,20  | 16,5  | 30,0  | 24,4  | 13,8                 | 17,4  |  |
| 3,20  | 2,40              | 3,10 <sup>†</sup> | 6,10              | 15,0   | 41,9   | 5,20   | 5,30   | 5,00   | 12,2 | 9,00 | 41,6 | 7.                   | 5,70  | 3,50              | 2,70 <sup>†</sup> | 4,20 <sup>†</sup> | 4,70  | 5,80    | 6,80  | 18,6  | 29,5  | 22,0  | 13,9                 | 16,5  |  |
| 3,20  | 2,00              | 3,20 <sup>†</sup> | 5,20              | 15,0   | 34,5   | 5,20   | 4,90   | 5,00   | 12,9 | 24,0 | 49,6 | 8.                   | 5,70  | 3,30              | 2,70 <sup>†</sup> | 4,20 <sup>†</sup> | 4,80  | 5,80    | 8,70  | 19,2  | 29,4  | 20,6  | 13,8                 | 17,4  |  |
| 3,60  | 2,00              | 4,50 <sup>†</sup> | 4,90              | 16,3   | 28,4   | 4,60   | 4,20   | 4,20   | 13,4 | 24,0 | 49,6 | 9.                   | 5,70  | 3,10              | 3,10 <sup>†</sup> | 4,20 <sup>†</sup> | 4,90  | 5,70    | 11,4  | 18,6  | 29,3  | 12,9  | 14,2                 | 17,4  |  |
| 3,00  | 2,20              | 4,70 <sup>†</sup> | 4,60              | 16,9   | 23,6   | 4,60   | 3,90   | 3,50   | 11,7 | 17,9 | 41,6 | 10.                  | 6,15  | 3,10              | 3,30 <sup>†</sup> | 4,00 <sup>†</sup> | 4,80  | 6,00    | 13,4  | 14,8  | 28,7  | 8,60  | 14,2                 | 17,0  |  |
| 2,80  | 2,20              | 4,70 <sup>†</sup> | 4,60              | 17,0   | 20,0   | 4,00   | 3,90   | 4,10   | 12,2 | 16,9 | 35,4 | 11.                  | 6,15  | 3,10              | 3,30 <sup>†</sup> | 4,00 <sup>†</sup> | 4,90  | 5,90    | 15,3  | 19,9  | 27,8  | 8,60  | 14,0                 | 17,0  |  |
| 2,80  | 2,00              | 5,50 <sup>†</sup> | 4,30              | 16,4   | 17,3   | 4,00   | 3,50   | 4,50   | 16,9 | 21,8 | 29,1 | 12.                  | 6,15  | 2,90              | 3,60 <sup>†</sup> | 4,00 <sup>†</sup> | 5,10  | 5,90    | 17,8  | 21,4  | 25,9  | 7,90  | 14,0                 | 17,4  |  |
| 2,80  | 2,00              | 11,4 <sup>†</sup> | 4,70              | 16,0   | 15,4   | 3,80   | 3,50   | 4,30   | 18,0 | 24,0 | 22,9 | 13.                  | 5,80  | 2,90              | 4,20 <sup>†</sup> | 4,00 <sup>†</sup> | 5,20  | 6,10    | 19,3  | 22,6  | 20,0  | 7,80  | 15,5                 | 17,4  |  |
| 2,80  | 2,20              | 22,9 <sup>†</sup> | 7,20              | 15,5   | 13,4   | 3,60   | 4,90   | 4,50   | 18,6 | 23,1 | 19,7 | 14.                  | 5,80  | 2,70              | 4,00 <sup>†</sup> | 4,00 <sup>†</sup> | 5,80  | 6,00    | 16,3  | 23,1  | 19,2  | 10,4  | 17,2                 | 17,4  |  |
| 2,80  | 2,00              | 22,6 <sup>†</sup> | 6,70              | 14,5   | 13,3   | 3,40   | 5,20   | 5,70   | 19,8 | 21,8 | 17,5 | 15.                  | 5,50  | 2,60              | 4,20 <sup>†</sup> | 3,80 <sup>†</sup> | 6,60  | 5,70    | 31,3  | 24,5  | 20,4  | 11,9  | 19,9                 | 17,4  |  |
| 3,20  | 1,80              | 44,2 <sup>†</sup> | 7,50              | 13,8   | 14,5   | 2,90   | 4,50   | 7,30   | 20,6 | 19,8 | 14,9 | 16.                  | 5,85  | 2,70              | 4,20 <sup>†</sup> | 3,80 <sup>†</sup> | 6,90  | 5,30    | 24,7  | 25,0  | 15,5  | 7,20  | 31,9                 | 17,4  |  |
| 3,00  | 2,00              | 88,0 <sup>†</sup> | 5,40              | 15,0   | 13,6   | 3,10   | 3,90   | 7,30   | 21,2 | 20,4 | 13,2 | 17.                  | 5,85  | 2,70              | 4,20 <sup>†</sup> | 3,80 <sup>†</sup> | 7,20  | 5,60    | 22,9  | 24,0  | 13,7  | 7,00  | 47,9                 | 17,4  |  |
| 2,80  | 1,80              | 73,1 <sup>†</sup> | 5,40              | 15,0   | 11,8   | 3,50   | 3,60   | 17,0   | 19,8 | 17,9 | 12,3 | 18.                  | 5,85  | 2,90              | 4,20 <sup>†</sup> | 4,00 <sup>†</sup> | 7,30  | 5,50    | 27,4  | 23,3  | 9,30  | 7,90  | 53,2                 | 17,8  |  |
| 3,00  | 1,80              | 55,8 <sup>†</sup> | 4,60              | 17,5   | 11,8   | 3,10   | 3,30   | 42,0   | 20,6 | 17,5 | 11,6 | 19.                  | 5,55  | 2,90              | 4,20 <sup>†</sup> | 4,00 <sup>†</sup> | 7,70  | 5,50    | 28,0  | 24,0  | 6,90  | 11,9  | 48,6                 | 17,8  |  |
| 2,80  | 1,60              | 41,3 <sup>†</sup> | 4,20              | 22,6   | 12,3   | 3,10   | 3,30   | 48,0   | 17,9 | 18,5 | 11,6 | 20.                  | 5,55  | 2,70              | 4,00 <sup>†</sup> | 4,00 <sup>†</sup> | 7,70  | 5,40    | 25,8  | 26,1  | 7,10  | 15,5  | 39,7                 | 20,2  |  |
| 2,70  | 2,00              | 40,1 <sup>†</sup> | 4,10              | 28,6   | 12,3   | 3,50   | 3,30   | 38,6   | 16,3 | 17,5 | 9,60 | 21.                  | 5,95  | 2,70              | 4,20 <sup>†</sup> | 4,00 <sup>†</sup> | 7,70  | 5,10    | 23,0  | 27,9  | 7,40  | 17,1  | 33,3                 | 22,7  |  |
| 2,60  | 1,80              | 96,0 <sup>†</sup> | 4,50              | 28,6   | 11,0   | 4,10   | 3,30   | 28,7   | 19,8 | 17,0 | 8,80 | 22.                  | 5,95  | 2,70              | 4,00 <sup>†</sup> | 4,20 <sup>†</sup> | 7,70  | 5,00    | 22,2  | 28,3  | 7,10  | 16,2  | 19,9                 | 23,2  |  |
| 2,60  | 1,80              | 85,0 <sup>†</sup> | 4,30              | 29,9   | 10,4   | 3,50   | 3,00   | 21,3   | 37,1 | 18,5 | 9,60 | 23.                  | 5,95  | 2,70              | 4,00 <sup>†</sup> | 4,20 <sup>†</sup> | 7,30  | 5,00    | 19,7  | 28,9  | 8,70  | 10,4  | 19,4                 | 23,2  |  |
| 2,60  | 2,20              | 59,0 <sup>†</sup> | 4,10              | 29,9   | 9,80   | 3,70   | 3,00   | 17,5   | 39,7 | 17,5 | 10,3 | 24.                  | 5,00  | 2,70              | 4,00 <sup>†</sup> | 4,00              | 7,30  | 4,90    | 17,7  | 29,4  | 12,2  | 7,00  | 19,4                 | 24,7  |  |
| 2,60  | 2,00              | 36,6 <sup>†</sup> | 4,60              | 32,1   | 9,30   | 3,70   | 3,00   | 13,4   | 41,8 | 17,9 | 12,3 | 25.                  | 4,50  | 2,70              | 4,00 <sup>†</sup> | 4,00              | 6,50  | 5,20    | 18,7  | 28,9  | 9,20  | 6,50  | 19,9                 | 25,9  |  |
| 2,30  | 2,40              | 26,9 <sup>†</sup> | 9,70              | 32,1   | 9,30   | 3,50   | 2,70   | 16,2   | 42,3 | 24,0 | 13,2 | 26.                  | 4,50  | 2,70              | 4,00 <sup>†</sup> | 4,00              | 6,20  | 4,80    | 21,7  | 28,9  | 7,70  | 11,9  | 19,4                 | 25,9  |  |
| 2,30  | 3,00              | 17,4 <sup>†</sup> | 33,4              | 32,1   | 8,00   | 2,90   | 3,10   | 28,0   | 37,3 | 37,7 | 12,7 | 27.                  | 4,50  | 2,90              | 4,00 <sup>†</sup> | 4,00              | 6,20  | 5,20    | 24,6  | 29,4  | 8,00  | 13,3  | 19,4                 | 25,3  |  |
| 2,10  | 4,80              | 10,2 <sup>†</sup> | 24,0              | 29,6   | 7,60   | 2,90   | 5,30   | 28,0   | 34,2 | 46,1 | 17,5 | 28.                  | 4,00  | 2,90              | 4,00 <sup>†</sup> | 4,20              | 6,50  | 4,80    | 27,8  | 28,9  | 7,50  | 7,50  | 19,9                 | 25,3  |  |
| 2,30  | 6,80              | 11,5 <sup>†</sup> | 27,4              | 6,50   | 2,60   | 4,20   | 29,3   | 29,3   | 44,3 | 18,6 | 29.  | 29.                  | 4,00  | 2,90              | 4,20 <sup>†</sup> | 6,50              | 4,80  | 31,9    | 28,9  | 8,00  | 11,2  | 19,4  | 25,9                 |       |  |
| 2,40  | 6,80              | 9,40 <sup>†</sup> | 24,3              | 5,90   | 3,60   | 3,30   | 30,0   | 23,3   | 40,9 | 20,5 | 30.  | 30.                  | 3,60  | 2,90              | 4,00 <sup>†</sup> | 6,50              | 6,00  | 23,7    | 29,9  | 7,50  | 15,5  | 19,9  | 26,3                 |       |  |
| 5,90  | 7,10 <sup>†</sup> |                   | 23,9              |        | 6,00   |        | 28,0   | 18,6   |      | 21,8 | 31.  | 31.                  | 2,70  | 4,00 <sup>†</sup> |                   | 6,50              |       | 21,5    |       | 7,40  | 15,6  |       | 25,8                 |       |  |
| 90,70   | 80,10             | 809,90            | 193,30            | 676,20 | 131,90 | 460,30 | 678,80 | 791,80 |      |      |      | Σ                    | 162,55  | 92,7              | 112,5             | 112,4             | 185,4 | 168,8   | 563,7 | 688,6 | 564,2 | 988,6 | 657,8                | 627,2 |  |
| Wi: n 181; 2534,10  |                   |                   | 703,90            |        |        | 125,00 |        | 629,30 |      |      |      | Wi: n 181; 834,35    |   |                   |                   |                   |       | 3490,10 |       |       |       |       | Jahr: n 365; 4324,45 |       |  |
| So: n 184; 2817,10  |                   |                   |                   |        |        |        |        |        |      |      |      | Jahr: n 365; 5371,20 |   |                   |                   |                   |       |         |       |       |       |       |                      |       |  |

Hauptzahlen

| Nov                                    | Dez  | Jan  | Febr | März | Apr  | Mai  | Juni | Juli | Aug  | Sept | Okt  | Wi   | So   | Jahr |
|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| <b>Abflüsse (m<sup>3</sup>/s) 1954</b> |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 28.                                    | 20.  | 7.   | 21.  | 16.  | 30.  | 29.  | 26.  | 3.   | 6.   | 6.   | 22.  |      |      |      |
| 2,10                                   | 1,60 | 3,10 | 4,10 | 13,8 | 5,90 | 2,60 | 2,70 | 2,20 | 11,7 | 9,00 | 8,80 | 1,60 | 2,20 | 1,60 |
| 3,02                                   | 2,60 | 26,1 | 6,90 | 22,7 | 22,5 | 4,30 | 4,20 | 14,8 | 21,9 | 21,0 | 25,5 | 14,1 | 15,3 | 14,7 |
| 5,40                                   | 6,80 | 96,0 | 33,4 | 39,5 | 65,3 | 6,90 | 6,40 | 48,0 | 42,3 | 46,1 | 53,0 | 96,0 | 53,0 | 96,0 |
| 1.                                     | 29.  | 30.  | 22.  | 27.  | 4.   | 4.   | 3.   | 3.   | 20.  | 26.  | 28.  | 2.   |      |      |

19-19-\*)

Spenden (l/s km<sup>2</sup>):

| 1954 |      |      | 19-19-*) |      |      |
|------|------|------|----------|------|------|
| Nq   | Mq   | Hq   | Wi       | So   | Jahr |
| 1,33 | 11,7 | 79,9 | 1,83     | 12,7 | 79,9 |
| 1,33 | 12,2 | 79,9 |          |      |      |

Äußerste Abflüsse (m<sup>3</sup>/s) und Abflußspenden (l/s km<sup>2</sup>)

| 1954                | NQ   | Nq   | HQ           | Hq                |
|---------------------|------|------|--------------|-------------------|
| 19-19-*)            | 1,60 | 1,33 | 20. Dez 1953 | 96,0 = 142 cm a P |
|                     | NNQ  | NNq  | HHQ          | HHq               |
| überh<br>bekannt *) |      |      |              |                   |

Eisverhältnisse 1954: Randeis an 1 Tag, Randeis und Eisbewegung an 10 Tagen, Eisbewegung an 2 Tagen, Eisstand an 34 Tagen, Eissetzung an 2 Tagen.

\*) Jahresreihe und Grenzwerte können nicht gebracht werden, da neue Abflußkurve. Wasser- und Schifffahrtsdirektion Hannover

Hauptzahlen

| Nov                                    | Dez  | Jan  | Febr | März | Apr  | Mai  | Juni | Juli | Aug  | Sept | Okt  | Wi   | So   | Jahr |
|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| <b>Abflüsse (m<sup>3</sup>/s) 1954</b> |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| am                                     | 30.  | 15.  | oft  | 4.   | t.   | oft  | 1.   | 3.   | 19.  | 25.  | 4.   | 7.   |      |      |
| NQ                                     | 3,60 | 2,60 | 2,70 | 3,60 | 4,30 | 4,80 | 6,50 | 14,5 | 6,90 | 6,50 | 13,3 | 16,5 | 2,60 | 6,50 |
| MQ                                     | 5,42 | 3,00 | 3,63 | 4,00 | 6,00 | 5,60 | 18,2 | 23,0 | 18,2 | 12,5 | 21,9 | 20,2 | 4,61 | 19,0 |
| HQ                                     | 6,15 | 3,60 | 4,20 | 4,20 | 7,70 | 6,40 | 31,9 | 29,9 | 32,9 | 24,4 | 53,2 | 26,3 | 7,70 | 53,2 |
| am                                     | oft  | 6.   | oft  | oft  | 1,2. |      | 29.  | 30.  | t.   | 6.   | 18.  | 30.  |      |      |

19-19-\*\*)

Spenden (l/s km<sup>2</sup>):

| 1954**) |      |      | 19-19-**) |      |      |
|---------|------|------|-----------|------|------|
| Nq      | Mq   | Hq   | Wi        | So   | Jahr |
| 1,79    | 3,17 | 5,30 | 4,48      | 13,1 | 36,6 |
| 1,79    | 8,20 | 36,6 |           |      |      |

Äußerste Abflüsse (m<sup>3</sup>/s) und Abflußspenden (l/s km<sup>2</sup>)

| 1954       | NQ   | Nq   | HQ           | Hq                |
|------------|------|------|--------------|-------------------|
| 1941/50**) | 2,60 | 1,79 | 15. Dez 1953 | 53,2 = 198 cm a P |
| seit 1951  | NNQ  | NNq  | HHQ          | HHq               |
|            | 2,60 | 1,79 | 15. Dez 1953 | 111 = 243 cm a P  |

Eisverhältnisse 1954: Randeis an 41 Tagen.

\*) Die Eder ist bei Affoldern fast das ganze Jahr über stark verkrautet, wodurch teilweise ein erhebliches Abweichen der Abflußwerte bei gleichem Pegelstand bedingt ist.

\*\*\*) Jahresreihe und Grenzwerte können nicht gebracht werden, da neue Abflußkurve. Wasser- und Schifffahrtsdirektion Hannover

Diemel

Pegel: Helminghausen

90,0 km oberhalb der Mündung  
 PN = NN + 336,97 m a. S. FN = 103 km<sup>2</sup>  
 12-Uhr-Ablesungen [s. S. 27]

| Tag                                 | Nov               | Dez  | Jan   | Febr              | März  | April | Mai                 | Juni  | Juli  | Aug  | Sept  | Okt   |
|-------------------------------------|-------------------|------|-------|-------------------|-------|-------|---------------------|-------|-------|------|-------|-------|
| <b>Tageswerte m<sup>3</sup>/s*)</b> |                   |      |       |                   |       |       |                     |       |       |      |       |       |
| 1.                                  | 0,93              | 0,31 | 0,27  | 1,00              | 0,93  | 0,87  | 0,87                | 1,00  | 1,00  | 1,00 | 2,30  | 2,50  |
| 2.                                  | 0,93              | 0,35 | 0,27  | 0,93              | 0,93  | 0,87  | 0,87                | 1,00  | 1,00  | 0,93 | 2,20  | 2,40  |
| 3.                                  | 0,93              | 0,31 | 0,27  | 0,93              | 0,87  | 0,87  | 0,93                | 1,00  | 1,00  | 1,00 | 2,30  | 2,40  |
| 4.                                  | 0,93              | 0,27 | 0,50  | 0,93              | 0,87  | 0,93  | 0,93                | 1,00  | 1,00  | 1,00 | 3,30  | 2,01  |
| 5.                                  | 0,87              | 0,27 | 0,56  | 0,93              | 0,87  | 0,81  | 0,87                | 1,07  | 1,00  | 1,00 | 3,18  | 2,30  |
| 6.                                  | 0,87              | 0,27 | 0,50  | 0,93              | 0,93  | 0,93  | 0,93                | 1,00  | 1,07  | 2,30 | 3,06  | 4,73  |
| 7.                                  | 0,87              | 0,27 | 0,50  | 0,93              | 0,93  | 0,93  | 0,87                | 1,07  | 1,00  | 2,20 | 3,18  | 2,50  |
| 8.                                  | 0,87              | 0,27 | 0,50  | 0,93              | 0,93  | 0,87  | 0,93                | 1,07  | 1,00  | 2,20 | 3,18  | 2,61  |
| 9.                                  | 0,93              | 0,27 | 0,50  | 0,93              | 0,93  | 0,87  | 0,93                | 1,07  | 1,00  | 2,00 | 3,30  | 4,60  |
| 10.                                 | 0,81              | 0,27 | 0,45  | 0,93              | 0,93  | 0,87  | 0,87                | 1,14  | 1,00  | 2,00 | 3,30  | 4,46  |
| 11.                                 | 0,45              | 0,27 | 0,50  | 0,93              | 0,93  | 0,93  | 0,87                | 1,07  | 1,00  | 2,30 | 3,30  | 4,60  |
| 12.                                 | 0,50              | 0,27 | 0,56  | 0,93              | 0,93  | 0,81  | 0,87                | 1,14  | 1,00  | 2,30 | 3,30  | 4,60  |
| 13.                                 | 0,50              | 0,27 | 0,56  | 0,93              | 0,93  | 0,93  | 0,87                | 1,14  | 1,00  | 2,30 | 5,00  | 4,60  |
| 14.                                 | 0,50              | 0,27 | 0,56  | 0,93              | 0,93  | 0,81  | 0,93                | 1,00  | 0,93  | 2,30 | 4,60  | 4,60  |
| 15.                                 | 0,45              | 0,27 | 0,50  | 0,93              | 0,93  | 0,93  | 0,87                | 1,07  | 0,93  | 2,40 | 3,80  | 4,60  |
| 16.                                 | 0,45              | 0,27 | 0,50  | 0,93              | 0,93  | 0,93  | 0,93                | 1,07  | 0,93  | 2,20 | 4,19  | 4,33  |
| 17.                                 | 0,40              | 0,27 | 0,45  | 0,87              | 0,93  | 0,81  | 0,75                | 1,07  | 1,00  | 2,20 | 4,19  | 4,33  |
| 18.                                 | 0,40              | 0,27 | 1,00  | 0,87              | 0,93  | 0,93  | 1,14                | 1,07  | 1,00  | 2,20 | 4,06  | 4,19  |
| 19.                                 | 0,40              | 0,27 | 0,93  | 0,87              | 0,93  | 0,93  | 1,00                | 1,07  | 0,93  | 2,30 | 4,06  | 4,33  |
| 20.                                 | 0,40              | 0,27 | 0,93  | 0,93              | 0,93  | 0,87  | 1,00                | 1,07  | 0,93  | 1,07 | 3,92  | 4,33  |
| 21.                                 | 0,40              | 0,27 | 1,00  | 0,93              | 0,93  | 0,87  | 0,93                | 1,07  | 0,93  | 1,07 | 4,06  | 4,33  |
| 22.                                 | 0,45              | 0,27 | 0,93  | 0,93              | 0,87  | 0,87  | 0,93                | 1,07  | 1,00  | 1,07 | 4,06  | 4,33  |
| 23.                                 | 0,40              | 0,27 | 0,93  | 0,93              | 0,93  | 0,93  | 1,00                | 1,07  | 1,00  | 2,01 | 2,40  | 4,19  |
| 24.                                 | 0,40              | 0,27 | 0,93  | 0,93              | 0,93  | 0,93  | 1,00                | 1,07  | 1,00  | 2,30 | 2,20  | 4,06  |
| 25.                                 | 0,45              | 0,27 | 0,93  | 0,93              | 0,93  | 0,87  | 0,93                | 1,07  | 1,00  | 2,30 | 2,61  | 4,06  |
| 26.                                 | 0,40              | 0,27 | 0,93  | 0,93              | 0,93  | 0,87  | 1,00                | 1,07  | 1,00  | 2,30 | 2,50  | 4,06  |
| 27.                                 | 0,35              | 0,27 | 0,93  | 0,87              | 0,93  | 0,87  | 1,00                | 1,07  | 1,00  | 2,20 | 2,40  | 4,06  |
| 28.                                 | 0,40              | 0,27 | 0,93  | 0,93              | 0,93  | 0,87  | 1,00                | 1,00  | 1,00  | 2,20 | 2,50  | 3,92  |
| 29.                                 | 0,40              | 0,27 | 0,93  | 0,81              | 0,93  | 0,87  | 1,07                | 1,00  | 1,00  | 2,30 | 2,40  | 4,06  |
| 30.                                 | 0,45              | 0,27 | 0,93  | 0,87              | 0,87  | 0,87  | 1,07                | 1,00  | 1,00  | 2,10 | 2,50  | 3,92  |
| 31.                                 |                   | 0,27 | 0,93  |                   | 0,87  |       | 1,00                |       | 1,00  | 2,10 |       | 2,94  |
| Σ                                   | 17,49             | 8,53 | 21,11 | 25,87             | 28,35 | 26,58 | 29,16               | 31,68 | 30,65 | 5915 | 97,35 | 11895 |
|                                     | Wi: n 181; 127,93 |      |       | So: n 184; 967,34 |       |       | Jahr: n 365; 495,27 |       |       |      |       |       |

Hauptzahlen

|                                   | Nov  | Dez  | Jan  | Febr | März | Apr  | Mai  | Juni | Juli | Aug  | Sept | Okt  | Wi   | So   | Jahr |
|-----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| <b>Abflüsse (m<sup>3</sup>/s)</b> |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| am                                | 27.  | oft  | oft  | oft  | 29.  | oft  | 17.  | 22.  | 23.  | 6.   | 25.  | 5.   |      |      |      |
| NQ                                | 0,35 | 0,27 | 0,27 | 0,87 | 0,81 | 0,81 | 0,75 | 0,31 | 0,75 | 0,81 | 0,10 | 0,35 | 0,27 | 0,10 | 0,10 |
| MQ                                | 0,58 | 0,28 | 0,68 | 0,92 | 0,91 | 0,89 | 0,94 | 1,06 | 0,99 | 1,92 | 3,25 | 3,84 | 0,71 | 2,00 | 1,36 |
| HQ                                | 1,00 | 0,45 | 1,07 | 1,07 | 1,07 | 1,07 | 2,01 | 1,35 | 1,14 | 2,61 | 5,14 | 5,00 | 1,07 | 5,14 | 5,14 |
| am                                | 9.   | 1.   | 18.  | 8.   | 25.  | 29.  | 18.  | 8.   | 26.  | 23.  | 14.  | 6.   |      |      |      |

19--/19--\*\*)

|     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| NQ  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MNQ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MQ  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MHQ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| HQ  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| HQ  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Spenden (l/s km<sup>2</sup>):

|    | 1954 |      |      | 19--/19--**) |    |      |     |
|----|------|------|------|--------------|----|------|-----|
|    | Wi   | So   | Jahr | Wi           | So | Jahr |     |
| Nq | 2,62 | 0,97 | 0,97 |              |    |      | MNq |
| Mq | 6,89 | 19,4 | 13,2 |              |    |      | Mq  |
| Hq | 10,4 | 49,9 | 49,9 |              |    |      | MHq |

Äußerste Abflüsse (m<sup>3</sup>/s) und Abflußpenden (l/s km<sup>2</sup>)

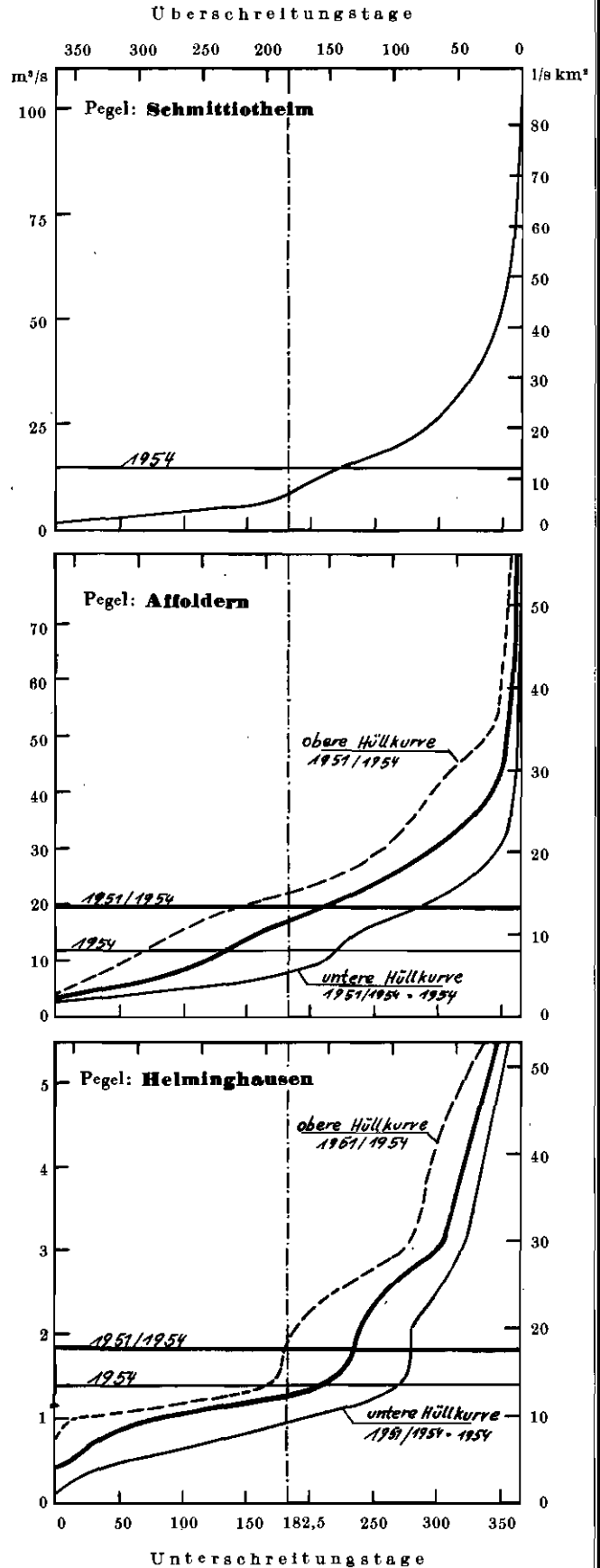
|            | NQ   | Nq   | HQ                | Hq            |
|------------|------|------|-------------------|---------------|
| 1954       | 0,10 | 0,97 | 5,14 = 94 cm a P  | 49,9          |
| 1941/50**) |      |      |                   | 14. Sept      |
| seit 1951  | 0,10 | 0,97 | 15,4 = 151 cm a P | 150           |
|            | NNQ  | NNq  | HHQ               | HHq           |
|            |      |      |                   | 14. März 1951 |

Eisverhältnisse 1954: keine Angaben.

\*) Tageswerte nach 12-Uhr-Beobachtungen. Hauptzahlen sind unter Verwendung der SP-Spitzen angegeben.

\*\*\*) Jahresreihe und Grenzwerte können nicht gebracht werden, da neue Abflußkurve. Wasser- und Schifffahrtsdirektion Hannover

Dauerlinien und Jahresmittel der Abflüsse und Abflußpenden



Main data table with columns for months (Nov to Okt) and days (Tag) for two gauging stations: 'Pegel: Brenneckenbrück' and 'Pegel: Celle'. It includes daily discharge values in m³/s and summary statistics at the bottom.

Summary statistics for Brenneckenbrück, including 'Hauptzahlen' (main numbers) for months and years, and 'Spenden' (discharge per km²) for 1954 and 19-19\*.

Summary statistics for Celle, including 'Hauptzahlen' (main numbers) for months and years, and 'Spenden' (discharge per km²) for 1954 and 19-19\*.

Summary statistics for Brenneckenbrück, including 'Außerste Abflüsse und Abflußpenden' (outermost discharges and discharge rates) for 1954 and 19-19\*.

Summary statistics for Celle, including 'Außerste Abflüsse und Abflußpenden' (outermost discharges and discharge rates) for 1954 and 19-19\*.

Eisverhältnisse 1954: Eisbewegung an 32 Tagen, Eisstand an 7 Tagen. \*) Jahresreihe und Grenzwerte können nicht gebracht werden, da die gültige Abflußkurve erst mit dem 1. November 1953 beginnt.

Eisverhältnisse 1954: Eisbewegung an 4 Tagen, Randeis und Eisbewegung an 1 Tag, Randeis an 27 Tagen. \*) Jahresreihe und Grenzwerte können nicht gebracht werden, da neue Abflußkurve.

**Aller** **Pegel: Rethem**  
 34,82 km oberhalb der Mündung  
 PN = NN + 14,31 m. FN = 15 003 km<sup>2</sup>  
 nach mittleren Tageswasserständen [s. S. 32]

| Tag                                 | Nov        | Dez      | Jan  | Febr       | März     | April | Mai          | Juni     | Juli | Aug    | Sept | Okt    |
|-------------------------------------|------------|----------|------|------------|----------|-------|--------------|----------|------|--------|------|--------|
| <b>Tageswerte (m<sup>3</sup>/s)</b> |            |          |      |            |          |       |              |          |      |        |      |        |
| 1.                                  | 37,9       | 38,4     | 58,2 | 37,6       | 66,1     | 90,8  | 53,5         | 37,5     | 30,2 | 154    | 136  | 115    |
| 2.                                  | 42,0       | 40,6     | 53,0 | 37,1       | 67,2     | 96,7  | 54,5         | 39,7     | 29,4 | 141    | 123  | 126    |
| 3.                                  | 42,0       | 40,2     | 52,5 | 36,8       | 78,4     | 104   | 53,5         | 44,7     | 30,2 | 128    | 111  | 148    |
| 4.                                  | 41,5       | 39,7     | 52,5 | 36,8       | 79,6     | 111   | 52,5         | 48,0     | 30,2 | 111    | 102  | 167    |
| 5.                                  | 38,8       | 38,4     | 50,0 | 37,0       | 83,2     | 124   | 58,8         | 42,9     | 29,0 | 103    | 104  | 172    |
| 6.                                  | 40,2       | 39,7     | 49,0 | 36,9       | 76,6     | 129   | 66,6         | 38,8     | 28,6 | 100    | 113  | 169    |
| 7.                                  | 39,7       | 39,7     | 49,0 | 37,0       | 71,3     | 128   | 66,1         | 40,6     | 29,0 | 88,9   | 110  | 187    |
| 8.                                  | 39,7       | 36,6     | 50,5 | 37,2       | 71,8     | 117   | 56,6         | 37,0     | 28,6 | 88,9   | 105  | 226    |
| 9.                                  | 38,8       | 37,0     | 46,0 | 37,4       | 68,9     | 107   | 56,0         | 36,2     | 28,2 | 84,4   | 102  | 257    |
| 10.                                 | 37,9       | 36,6     | 47,0 | 37,5       | 64,9     | 93,5  | 54,5         | 35,8     | 27,8 | 83,8   | 105  | 268    |
| 11.                                 | 37,0       | 37,5     | 47,0 | 37,5       | 58,8     | 89,5  | 48,0         | 38,8     | 28,6 | 81,4   | 104  | 271    |
| 12.                                 | 38,4       | 41,1     | 51,0 | 38,1       | 58,2     | 83,8  | 46,5         | 37,9     | 40,2 | 84,4   | 102  | 266    |
| 13.                                 | 37,5       | 40,6     | 61,0 | 39,0       | 62,1     | 77,8  | 45,6         | 37,5     | 82,0 | 87,0   | 102  | 241    |
| 14.                                 | 40,2       | 38,4     | 84,4 | 39,5       | 59,9     | 71,8  | 44,7         | 37,9     | 119  | 85,0   | 103  | 217    |
| 15.                                 | 44,2       | 37,9     | 101  | 45,0       | 59,9     | 73,6  | 42,4         | 37,0     | 138  | 84,4   | 99,4 | 196    |
| 16.                                 | 50,5       | 37,9     | 110  | 45,0       | 58,8     | 78,4  | 41,5         | 37,0     | 141  | 99,4   | 96,1 | 173    |
| 17.                                 | 55,5       | 39,3     | 119  | 45,2       | 59,3     | 86,3  | 40,6         | 37,0     | 128  | 131    | 94,1 | 155    |
| 18.                                 | 53,5       | 39,7     | 129  | 45,3       | 60,4     | 84,4  | 39,3         | 37,0     | 126  | 134    | 89,5 | 139    |
| 19.                                 | 53,0       | 38,4     | 129  | 45,1       | 58,8     | 81,4  | 37,0         | 35,8     | 136  | 127    | 91,5 | 129    |
| 20.                                 | 50,0       | 39,3     | 119  | 44,1       | 59,3     | 75,4  | 37,9         | 35,4     | 160  | 118    | 89,5 | 124    |
| 21.                                 | 48,5       | 38,8     | 115  | 43,9       | 60,4     | 72,4  | 40,2         | 35,0     | 171  | 109    | 87,6 | 123    |
| 22.                                 | 47,0       | 37,5     | 112  | 44,8       | 61,0     | 71,3  | 46,0         | 32,6     | 161  | 102    | 88,3 | 122    |
| 23.                                 | 45,6       | 39,7     | 110  | 44,4       | 61,5     | 68,9  | 49,5         | 32,2     | 142  | 104    | 92,2 | 120    |
| 24.                                 | 44,2       | 41,5     | 107  | 42,8       | 62,6     | 69,5  | 45,1         | 31,4     | 124  | 137    | 98,7 | 121    |
| 25.                                 | 42,4       | 42,4     | 98,0 | 40,8       | 64,4     | 67,2  | 42,9         | 31,4     | 117  | 190    | 99,4 | 124    |
| 26.                                 | 41,1       | 42,4     | 87,6 | 40,1       | 67,8     | 65,5  | 42,9         | 31,8     | 110  | 225    | 97,4 | 122    |
| 27.                                 | 40,6       | 42,4     | 71,8 | 40,8       | 77,8     | 58,2  | 42,4         | 32,2     | 117  | 228    | 96,1 | 119    |
| 28.                                 | 40,2       | 44,7     | 67,2 | 44,0       | 91,5     | 56,6  | 40,6         | 31,8     | 149  | 201    | 95,4 | 124    |
| 29.                                 | 39,7       | 54,0     | 64,4 |            | 98,0     | 56,6  | 38,4         | 31,4     | 164  | 177    | 102  | 140    |
| 30.                                 | 39,3       | 63,2     | 65,5 |            | 96,1     | 55,5  | 37,9         | 30,6     | 164  | 163    | 107  | 151    |
| 31.                                 |            | 63,8     | 43,3 |            | 90,2     |       | 37,0         |          | 161  | 151    |      | 154    |
| Σ                                   | 1286,9     | 2399,9   |      | 1136,7     | 2545,1   |       | 1459,0       | 2970,0   |      | 3901,6 |      | 5166,0 |
|                                     | Wi: n 181; | 10 810,8 |      | So: n 184; | 17 635,7 |       | Jahr: n 365; | 28 446,5 |      |        |      |        |

**Hauptzahlen**

|                                   | Nov  | Dez      | Jan      | Febr  | März | Apr  | Mai      | Juni | Juli | Aug  | Sept | Okt  | Wi   | So   | Jahr |
|-----------------------------------|------|----------|----------|-------|------|------|----------|------|------|------|------|------|------|------|------|
| <b>Abflüsse (m<sup>3</sup>/s)</b> |      |          |          |       |      |      |          |      |      |      |      |      |      |      |      |
| am                                | 11.  | 8., 10.  | 9.       | 3.-4. | 12.  | 30.  | 19., 31. | 30.  | 10.  | 11.  | 21.  | 1.   |      |      |      |
| NQ                                | 37,0 | 36,6     | 46,0     | 36,8  | 58,2 | 55,5 | 37,0     | 30,6 | 27,8 | 81,4 | 87,6 | 115  | 36,6 | 27,8 | 27,8 |
| MQ                                | 42,9 | 41,5     | 77,4     | 40,6  | 69,5 | 84,8 | 47,1     | 36,4 | 95,8 | 126  | 167  | 59,7 | 95,8 | 77,9 |      |
| HQ                                | 56,6 | 66,1     | 131      | 45,3  | 100  | 130  | 68,9     | 55,0 | 172  | 232  | 144  | 276  | 131  | 276  | 276  |
| am                                | 17.  | 30., 31. | 18., 19. | 18.   | 29.  | 6.   | 6.       | 4.   | 21.  | 26.  | 1.   | 11.  |      |      |      |
| <b>19—/19—*)</b>                  |      |          |          |       |      |      |          |      |      |      |      |      |      |      |      |
| NQ                                |      |          |          |       |      |      |          |      |      |      |      |      |      |      |      |
| MNQ                               |      |          |          |       |      |      |          |      |      |      |      |      |      |      |      |
| MQ                                |      |          |          |       |      |      |          |      |      |      |      |      |      |      |      |
| MHQ                               |      |          |          |       |      |      |          |      |      |      |      |      |      |      |      |
| HQ                                |      |          |          |       |      |      |          |      |      |      |      |      |      |      |      |
| HQ                                |      |          |          |       |      |      |          |      |      |      |      |      |      |      |      |

**Spenden (l/s km<sup>2</sup>):**

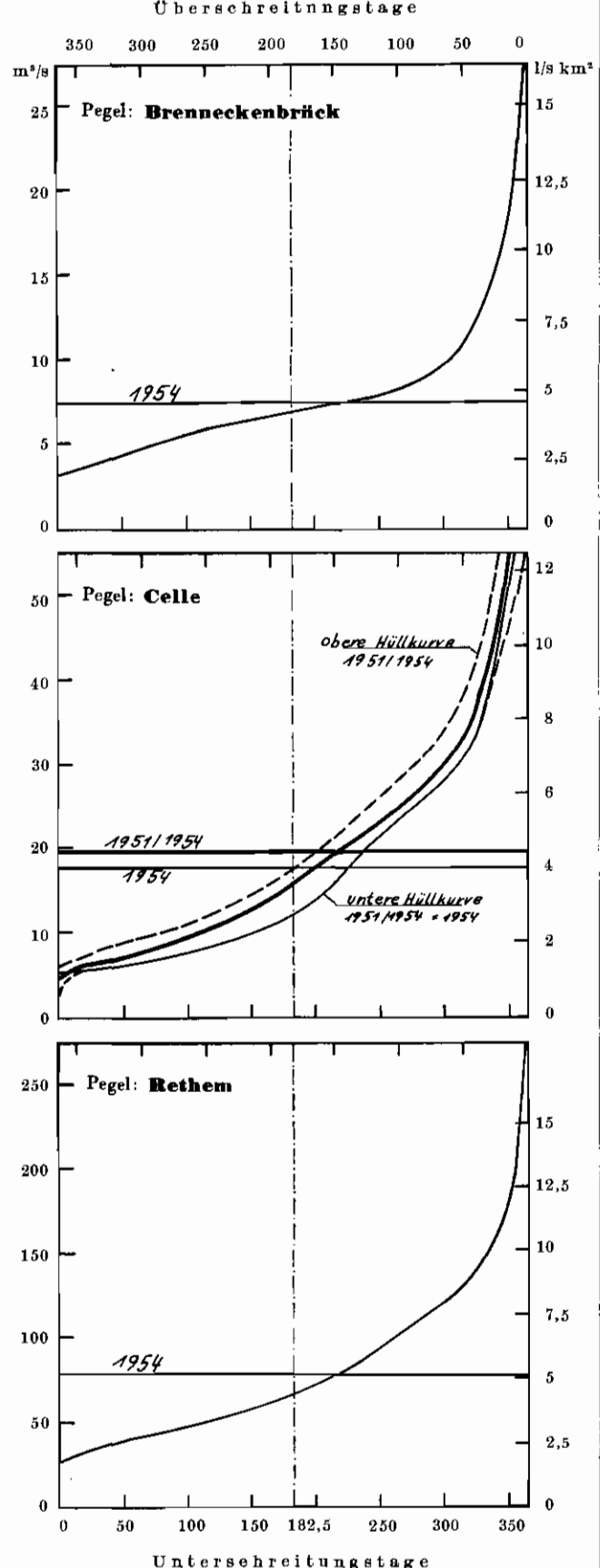
| 1954 |      |      |      | 19—/19—*) |    |      |     |
|------|------|------|------|-----------|----|------|-----|
|      | Wi   | So   | Jahr | Wi        | So | Jahr |     |
| Nq   | 2,44 | 1,85 | 1,85 |           |    |      | MNq |
| Mq   | 3,98 | 6,39 | 5,19 |           |    |      | Mq  |
| Hq   | 8,73 | 18,4 | 18,4 |           |    |      | MHq |

**Äußerste Abflüsse (m<sup>3</sup>/s) und Abflußspenden (l/s km<sup>2</sup>)**

|                      | NQ   | Nq   | HQ               | Hq      |
|----------------------|------|------|------------------|---------|
| 1954                 | 27,8 | 1,85 | 276 = 373 cm a P | 18,4    |
| 1941/50*)            |      |      |                  | 11. Okt |
|                      | NNQ  | NNq  | HHQ              | HHq     |
| überh. *)<br>bekannt |      |      |                  |         |

**Eisverhältnisse 1954:** Eisbewegung an 8 Tagen, Eisstand an 27 Tagen.  
 \*) Jahresreihe und Grenzwerte können nicht gebracht werden, da neuer Pegel.  
 Wasser- und Schifffahrtsdirektion Hannover

**Dauerlinien und Jahresmittel der Abflüsse und Abflußspenden**



| Oker<br>113 km oberhalb der Mündung<br>PN = NN + 345,13 m. FN = 86,1 km <sup>2</sup> **<br>nach mittleren Tageswasserständen |                  |                     |                  |                   |                      |       |      |        |       |       |       |      | Oker<br>74 km oberhalb der Mündung<br>PN = NN + 75,58 m n. S. FN = 813 km <sup>2</sup><br>nach mittleren Tageswasserständen [s. S. 32] |       |        |       |        |       |       |        |        |        |      |      |      |
|--|------------------|---------------------|------------------|-------------------|----------------------|-------|------|--------|-------|-------|-------|------|--|-------|--------|-------|--------|-------|-------|--------|--------|--------|------|------|------|
| Nov  | Dez              | Jan                 | Febr             | März              | April                | Mai   | Juni | Juli   | Aug   | Sept  | Okt   | Tag  | Nov  | Dez   | Jan    | Febr  | März   | April | Mai   | Juni   | Juli   | Aug    | Sept | Okt  |      |
| <b>Tageswerte (m<sup>3</sup>/s)***)</b>  |                  |                     |                  |                   |                      |       |      |        |       |       |       |      | <b>Tageswerte (m<sup>3</sup>/s)</b>  |       |        |       |        |       |       |        |        |        |      |      |      |
| 0,42   | 0,42             | 0,50                | 0,60             | 0,60              | 5,70                 | 1,12  | 0,42 | 0,26   | 3,40  | 1,65  | 0,65  | 1.   | 1,37   | 0,98  | 1,64   | 2,36  | 3,91   | 9,04  | 3,45  | 1,85   | 0,92   | 8,49   | 5,52 | 11,9 |      |
| 0,42   | 0,42             | 0,42                | 0,60             | 0,60              | 5,10                 | 1,00  | 0,42 | 0,26   | 2,72  | 1,50  | 8,28  | 2.   | 0,98   | 1,05  | 1,18   | 1,99  | 3,30   | 9,89  | 3,23  | 3,38   | 1,18   | 6,88   | 4,87 | 15,7 |      |
| 0,42   | 0,42             | 0,34                | 0,60             | 0,70              | 7,32                 | 1,12  | 0,34 | 0,34   | 2,32  | 2,52  | 6,00  | 3.   | 1,31   | 0,98  | 1,31   | 1,85  | 2,44   | 9,80  | 3,60  | 2,60   | 0,92   | 6,12   | 8,31 | 15,1 |      |
| 0,42   | 0,34             | 0,34                | 0,50             | 1,00              | 9,30                 | 1,00  | 0,34 | 0,34   | 1,96  | 1,96  | 4,50  | 4.   | 1,24   | 0,98  | 1,18   | 1,85  | 3,00   | 12,1  | 4,87  | 2,06   | 0,85   | 5,35   | 12,2 | 11,9 |      |
| 0,42   | 0,34             | 0,34                | 0,50             | 0,80              | 7,96                 | 0,90  | 0,26 | 0,34   | 1,50  | 1,80  | 3,65  | 5.   | 1,18   | 0,85  | 1,24   | 1,99  | 3,38   | 13,2  | 4,63  | 1,78   | 1,37   | 4,87   | 9,42 | 10,3 |      |
| 0,34   | 0,34             | 0,34                | 0,42             | 0,70              | 6,30                 | 0,70  | 0,26 | 0,34   | 1,36  | 1,65  | 7,00  | 6.   | 1,11   | 0,98  | 0,67   | 1,92  | 2,92   | 12,2  | 3,68  | 1,50   | 1,71   | 4,31   | 12,0 | 15,2 |      |
| 0,34   | 0,34             | 0,34                | 0,42             | 0,70              | 4,50                 | 0,70  | 0,34 | 0,34   | 1,12  | 1,50  | 7,96  | 7.   | 0,98   | 0,67  | 0,37   | 1,92  | 2,44   | 10,5  | 3,53  | 1,31   | 1,37   | 3,99   | 9,98 | 19,9 |      |
| 0,34   | 0,34             | 0,34                | 0,42             | 0,80              | 3,40                 | 0,60  | 0,34 | 0,34   | 1,12  | 1,36  | 6,30  | 8.   | 0,79   | 0,92  | 0,43   | 1,99  | 2,20   | 8,95  | 3,23  | 1,57   | 1,44   | 3,75   | 10,1 | 19,1 |      |
| 0,34   | 0,34             | 0,34                | 0,42             | 0,90              | 2,94                 | 0,50  | 0,26 | 0,34   | 1,12  | 1,24  | 5,10  | 9.   | 0,85   | 0,73  | 0,85   | 1,99  | 2,52   | 7,95  | 2,76  | 1,50   | 1,24   | 3,08   | 11,0 | 16,9 |      |
| 0,34   | 0,34             | 0,34                | 0,42             | 0,90              | 2,32                 | 0,42  | 0,26 | 0,34   | 1,12  | 1,24  | 3,65  | 10.  | 0,92   | 0,79  | 0,92   | 1,99  | 2,52   | 6,88  | 2,76  | 1,50   | 1,50   | 3,75   | 9,33 | 14,4 |      |
| 0,42   | 0,34             | 0,34                | 0,42             | 1,00              | 1,96                 | 0,42  | 0,26 | 1,12   | 1,12  | 1,50  | 2,72  | 11.  | 0,92   | 0,85  | 0,98   | 1,99  | 2,84   | 5,86  | 2,84  | 1,44   | 2,36   | 3,45   | 7,77 | 11,8 |      |
| 0,42   | 0,26             | 1,50                | 0,34             | 1,12              | 1,50                 | 0,34  | 0,26 | 3,90   | 1,00  | 2,14  | 2,32  | 12.  | 0,92   | 0,85  | 1,57   | 1,92  | 3,00   | 5,19  | 2,44  | 1,18   | 8,49   | 4,07   | 10,2 | 10,8 |      |
| 0,42   | 0,26             | 1,80                | 0,34             | 1,12              | 1,50                 | 0,34  | 0,26 | 4,50   | 0,90  | 1,36  | 1,96  | 13.  | 0,85   | 0,85  | 6,20   | 2,13  | 3,00   | 5,03  | 1,92  | 1,37   | 10,4   | 3,30   | 9,04 | 9,23 |      |
| 0,42   | 0,26             | 1,50                | 0,34             | 1,12              | 1,36                 | 0,34  | 0,34 | 3,40   | 0,90  | 1,36  | 1,65  | 14.  | 0,98   | 0,79  | 6,03   | 1,99  | 3,23   | 4,63  | 1,78  | 1,24   | 8,31   | 2,84   | 7,68 | 8,58 |      |
| 0,50   | 0,26             | 2,32                | 0,34             | 1,00              | 3,90                 | 0,34  | 0,34 | 4,20   | 1,00  | 1,36  | 1,36  | 15.  | 1,11   | 0,85  | 5,44   | 1,99  | 3,15   | 6,71  | 1,57  | 1,37   | 7,68   | 3,45   | 6,80 | 7,59 |      |
| 0,80   | 0,26             | 8,60                | 0,34             | 1,00              | 2,52                 | 0,34  | 0,34 | 3,40   | 1,12  | 1,80  | 1,24  | 16.  | 1,78   | 0,79  | 9,89   | 1,71  | 2,76   | 9,14  | 1,57  | 1,18   | 7,41   | 3,45   | 6,20 | 7,05 |      |
| 0,60   | 0,26             | 6,00                | 0,34             | 1,12              | 2,52                 | 0,34  | 0,34 | 4,80   | 1,00  | 2,32  | 1,24  | 17.  | 2,20   | 0,92  | 11,8   | 1,57  | 2,84   | 7,05  | 1,37  | 1,37   | 6,46   | 3,38   | 7,59 | 6,80 |      |
| 0,60   | 0,26             | 4,50                | 0,34             | 1,24              | 2,52                 | 0,34  | 0,34 | 14,8   | 1,00  | 1,80  | 1,12  | 18.  | 1,71   | 0,85  | 10,9   | 1,57  | 3,08   | 6,37  | 1,31  | 1,31   | 6,46   | 12,1   | 2,92 | 6,54 | 5,61 |
| 0,50   | 0,26             | 3,40                | 0,34             | 1,36              | 2,32                 | 0,34  | 0,34 | 17,2   | 1,00  | 1,80  | 1,24  | 19.  | 1,31   | 0,85  | 9,52   | 1,24  | 3,30   | 6,12  | 1,24  | 1,05   | 18,8   | 2,84   | 6,37 | 5,78 |      |
| 0,50   | 0,26             | 5,70                | 0,34             | 2,14              | 2,32                 | 0,70  | 0,34 | 11,6   | 1,00  | 1,96  | 1,12  | 20.  | 1,37   | 1,11  | 8,49   | 0,73  | 3,68   | 6,12  | 1,24  | 1,24   | 20,9   | 2,44   | 6,97 | 6,63 |      |
| 0,50   | 0,26             | 7,96                | 0,34             | 3,16              | 2,32                 | 0,80  | 0,34 | 7,96   | 1,00  | 1,80  | 1,00  | 21.  | 1,31   | 0,79  | 11,6   | 0,73  | 5,95   | 6,20  | 2,92  | 0,92   | 15,6   | 2,36   | 6,80 | 5,61 |      |
| 0,50   | 0,26             | 5,70                | 0,34             | 3,65              | 2,14                 | 0,60  | 0,34 | 5,40   | 1,12  | 1,80  | 1,00  | 22.  | 1,18   | 1,11  | 12,1   | 0,85  | 5,95   | 6,46  | 2,52  | 1,31   | 11,4   | 3,23   | 6,71 | 4,95 |      |
| 0,42   | 0,34             | 3,90                | 0,34             | 4,50              | 1,96                 | 0,50  | 0,34 | 3,65   | 7,32  | 1,96  | 1,65  | 23.  | 0,98   | 0,85  | 9,71   | 0,85  | 6,71   | 6,03  | 2,06  | 1,44   | 8,13   | 11,4   | 7,23 | 5,78 |      |
| 0,42   | 0,34             | 2,94                | 0,42             | 4,50              | 1,80                 | 0,50  | 0,34 | 2,94   | 5,70  | 1,65  | 1,24  | 24.  | 1,31   | 1,11  | 8,31   | 1,11  | 7,77   | 5,35  | 1,64  | 1,31   | 6,71   | 14,5   | 6,46 | 6,20 |      |
| 0,42   | 0,34             | 2,14                | 0,70             | 3,90              | 1,65                 | 0,50  | 0,26 | 2,94   | 3,90  | 1,65  | 1,65  | 25.  | 1,18   | 1,11  | 6,63   | 1,24  | 7,68   | 4,55  | 1,50  | 1,24   | 6,54   | 11,2   | 5,78 | 6,12 |      |
| 0,42   | 0,34             | 1,96                | 1,50             | 6,00              | 1,50                 | 0,50  | 0,34 | 10,0   | 3,16  | 1,96  | 1,65  | 26.  | 0,92   | 1,11  | 6,29   | 2,52  | 7,77   | 4,55  | 1,31  | 0,85   | 10,9   | 9,42   | 5,95 | 6,29 |      |
| 0,42   | 0,60             | 1,80                | 1,00             | 6,65              | 1,36                 | 0,42  | 0,50 | 9,65   | 2,52  | 2,72  | 1,80  | 27.  | 0,92   | 1,11  | 5,78   | 3,68  | 10,5   | 4,47  | 1,37  | 1,44   | 16,8   | 7,68   | 7,32 | 5,95 |      |
| 0,42   | 0,70             | 1,50                | 1,00             | 4,80              | 1,36                 | 0,42  | 0,26 | 7,00   | 2,32  | 2,52  | 1,96  | 28.  | 1,18   | 1,64  | 3,83   | 2,92  | 9,42   | 4,15  | 0,98  | 1,50   | 13,6   | 6,54   | 7,95 | 7,68 |      |
| 0,42   | 0,70             | 1,24                | 3,40             | 1,24              | 0,34                 | 0,26  | 6,30 | 2,94   | 2,32  | 1,80  | 1,80  | 29.  | 1,24   | 2,68  | 3,23   | 7,86  | 3,68   | 1,05  | 1,44  | 11,5   | 8,31   | 6,97   | 6,97 |      |      |
| 0,34   | 0,70             | 1,00                | 3,40             | 1,12              | 0,34                 | 0,26  | 5,70 | 2,32   | 2,72  | 1,80  | 1,80  | 30.  | 0,98   | 2,44  | 2,70   | 0,97  | 3,53   | 1,24  | 1,05  | 10,9   | 6,46   | 6,71   | 6,54 |      |      |
| 0,60   | 0,80             | 4,80                | 4,80             | 0,34              | 4,80                 | 1,96  | 1,65 | 31.    | 1,99  | 2,68  | 7,32  | 1,37 | 10,4   | 6,20  | 6,29   |       |        |       |       |        |        |        |      |      |      |
| 13,26  | 11,50            | 70,24               | 14,02            | 68,68             | 93,71                | 17,16 | 9,64 | 138,50 | 62,04 | 54,92 | 95,26 | Σ    | 35,08  | 33,58 | 133,53 | 50,39 | 211,70 | 70,98 | 43,97 | 237,89 | 170,03 | 298,65 |      |      |      |
| Wi: n 18; 27,41  | So: n 18; 377,52 | Jahr: n 365; 648,93 | Wi: n 18; 627,89 | So: n 18; 1057,29 | Jahr: n 365; 1665,18 |       |      |        |       |       |       |      |  |       |        |       |        |       |       |        |        |        |      |      |      |

Hauptzahlen

| Nov   | Dez  | Jan  | Febr          | März          | Apr     | Mai  | Juni | Juli   | Aug      | Sept    | Okt      | Wi          | So   | Jahr |
|---|------|------|---------------|---------------|---------|------|------|--------|----------|---------|----------|-------------|------|------|
| <b>Abflüsse (m<sup>3</sup>/s) 1954</b>  |      |      |               |               |         |      |      |        |          |         |          |             |      |      |
| oft   | oft  | oft  | oft           | 1., 2.        | 30.     | oft  | oft  | 1., 2. | 13., 14. | 9., 10. | 21., 22. |             |      |      |
| 0,34  | 0,26 | 0,34 | 0,34          | 0,60          | 1,12    | 0,34 | 0,26 | 0,26   | 0,90     | 1,24    | 1,00     | 0,26        | 0,26 | 0,26 |
| 0,44  | 0,37 | 2,27 | 0,50          | 2,22          | 3,12    | 0,55 | 0,32 | 4,47   | 2,00     | 1,83    | 3,07     | 1,50        | 2,05 | 1,78 |
| 0,80  | 1,12 | 10,3 | 2,14          | 8,95          | 10,3    | 1,36 | 0,50 | 20,3   | 11,6     | 8,95    | 12,0     | 10,3        | 20,3 | 20,3 |
| 16.   | 27.  | 16.  | 26.           | 26.           | 4.      | 3.   | 27.  | 19.    | 23.      | 30.     | 1.       |             |      |      |
| <b>1941/1950</b>  |      |      |               |               |         |      |      |        |          |         |          |             |      |      |
| 0,12  | 0,32 | 0,17 | 0,10          | 0,12          | 0,40    | 0,17 | 0,14 | 0,14   | 0,14     | 0,12    | 0,12     | 0,10        | 0,12 | 0,10 |
| 0,84  | 0,87 | 0,84 | 0,86          | 0,92          | 0,96    | 0,45 | 0,38 | 0,32   | 0,27     | 0,27    | 0,33     | 0,27        | 0,19 | 0,16 |
| 2,75  | 3,23 | 2,91 | 3,95          | 2,73          | 3,31    | 1,02 | 1,13 | 1,31   | 1,42     | 0,77    | 1,46     | 3,13        | 1,19 | 2,15 |
| 16,4  | 13,3 | 19,3 | 18,3          | 10,5          | 10,7    | 4,90 | 6,21 | 11,7   | 10,8     | 3,74    | 7,90     | 41,0        | 21,9 | 45,8 |
| 55,8  | 53,7 | 108  | 85,2          | 26,7          | 24,1    | 27,3 | 17,6 | 34,5   | 52,3     | 16,7    | 36,8     | 108         | 52,3 | 108  |
| <b>Spenden (l/s km<sup>2</sup>):</b>  |      |      |               |               |         |      |      |        |          |         |          |             |      |      |
| 19—   |      |      |               |               | 19—/19— |      |      |        |          |         |          |             |      |      |
|   | Wi   | So   | Jahr          |               | Wi      | So   | Jahr |        |          |         |          |             |      |      |
| Nq  |      |      |               |               |         |      |      |        |          |         |          | MNq         |      |      |
| Mq  |      |      |               |               |         |      |      |        |          |         |          | Mq          |      |      |
| Hq  |      |      |               |               |         |      |      |        |          |         |          | MHq         |      |      |
| <b>Äußerste Abflüsse (m<sup>3</sup>/s) und Abflußspenden (l/s km<sup>2</sup>)</b> |      |      |               |               |         |      |      |        |          |         |          |             |      |      |
| 1954  | 0,26 |      | Dez 53.       | Juni oft      | 20,3    |      |      |        |          |         |          | 19. Juli    |      |      |
| 1941/1950   | 0,10 |      | 1./2. Juli    | Febr 1947 oft | 108     |      |      |        |          |         |          | 13. I. 1948 |      |      |
|   | NNq  | NNq  |               |               |         |      |      |        |          |         |          | HHq         |      |      |
| überh. bekannt  | 0,10 |      | Sept 1929 oft | Febr 1947 oft | 113     |      |      |        |          |         |          | HHq         |      |      |

Hauptzahlen

| Nov                                    | Dez  | Jan  | Febr   | März     | Apr       | Mai   | Juni | Juli | Aug  | Sept | Okt  | Wi   | So   | Jahr |      |
|--|------|------|--------|----------|-----------|-------|------|------|------|------|------|------|------|------|------|
| <b>Abflüsse (m<sup>3</sup>/s) 1954</b> |      |      |        |          |           |       |      |      |      |      |      |      |      |      |      |
| am                                     | 8.   | 7.   | 7.     | 20., 21. | 8.        | 30.   | 28.  | 26.  | 4.   | 21.  | 2.   | 22.  |      |      |      |
| NQ                                     | 0,79 | 0,67 | 0,37   | 0,73     | 2,20      | 3,53  | 0,90 | 0,85 | 0,85 | 2,36 | 4,87 | 4,95 | 0,37 | 0,85 | 0,37 |
| MQ                                     | 1,17 | 1,08 | 4,95   | 1,81     | 4,63      | 7,05  | 2,29 | 1,47 | 7,67 | 5,48 | 7,86 | 9,63 | 3,47 | 5,75 | 4,62 |
| HQ                                     | 2,20 | 3,38 | 12,9   | 4,23     | 11,1      | 13,9  | 9,04 | 4,55 | 22,7 | 17,7 | 15,8 | 20,5 | 13,9 | 22,7 | 22,7 |
| am                                     | 17.  | 30.  | 21.    | 27.      | 27.       | 5.    | 23.  | 2.   | 20.  | 23.  | 3.   | 7.   |      |      |      |
| <b>1941/1950</b>                       |      |      |        |          |           |       |      |      |      |      |      |      |      |      |      |
| NQ                                     | 0,41 | 0,98 | 0,65   | 0,61     | 0,57      | 1,11  | 0,72 | 0,61 | 0,58 | 0,57 | 0,33 | 0,25 | 0,41 | 0,25 | 0,25 |
| MNQ                                    | 2,09 | 1,94 | 2,18   | 2,82     | 2,74      | 2,78  | 1,49 | 1,17 | 1,02 | 0,91 | 0,90 | 0,97 | 1,06 | 0,76 | 0,76 |
| MQ                                     | 6,55 | 7,73 | 7,76   | 11,7     | 10,1      | 9,38  | 4,00 | 3,97 | 3,29 | 2,22 | 2,10 | 3,52 | 8,84 | 3,40 | 6,10 |
| MHQ                                    | 21,2 | 22,2 | 24,8   | 31,3     | 31,5      | 21,2  | 14,9 | 17,2 | 12,6 | 12,9 | 6,32 | 11,3 | 56,7 | 29,8 | 61,3 |
| HQ                                     | 49,8 | 67,7 | 90,9   | 107      | 105       | 143,8 | 75,9 | 50,5 | 29,7 | 49,3 | 20,6 | 49,8 | 107  | 75,0 | 107  |
| <b>Spenden (l/s km<sup>2</sup>):</b>   |      |      |        |          |           |       |      |      |      |      |      |      |      |      |      |
| 1954                                   |      |      |        |          | 1941/1950 |       |      |      |      |      |      |      |      |      |      |
|  | Wi   | So   | Jahr   |          | Wi        | So    | Jahr |      |      |      |      |      |      |      |      |
| Nq                                     | 0,46 | 1,05 | 0,46   | 1,30     | 0,93      | 0,93  | MNq  |      |      |      |      |      |      |      |      |
| Mq                                     | 4,27 | 7,07 | 5,68</ |          |           |       |      |      |      |      |      |      |      |      |      |

Oker

Pegel: Groß-Schwülper

27,4 km oberhalb der Mündung  
 PN = NN + 55,67 m. FN = 1740 km<sup>2</sup>  
 nach mittleren Tageswasserständen [s. S. 33]

| Tag                                 | Nov    | Dez                | Jan               | Febr              | März               | April  | Mai    | Juni                 | Juli   | Aug    | Sept   | Okt    |
|-------------------------------------|--------|--------------------|-------------------|-------------------|--------------------|--------|--------|----------------------|--------|--------|--------|--------|
| <b>Tageswerte (m<sup>3</sup>/s)</b> |        |                    |                   |                   |                    |        |        |                      |        |        |        |        |
| 1.                                  | 10,2   | 10,2               | 9,66              | 9,44              | 9,99 <sup>^</sup>  | 15,8   | 9,00   | 7,93                 | 7,31   | 22,1   | 16,7   | 17,7   |
| 2.                                  | 10,9   | 9,11               | 10,3              | 10,51             | 10,5 <sup>o</sup>  | 17,3   | 8,89   | 9,44                 | 6,80   | 17,2   | 14,9   | 23,6   |
| 3.                                  | 9,77   | 9,00               | 9,33              | 9,88              | 11,7               | 17,7   | 8,14   | 10,2                 | 7,11   | 14,9   | 14,3   | 26,8   |
| 4.                                  | 8,36   | 8,89               | 9,55              | 8,57              | 11,2               | 18,7   | 10,3   | 9,11                 | 6,49   | 13,2   | 22,2   | 28,4   |
| 5.                                  | 9,33   | 9,33               | 10,3              | 8,14              | 11,4               | 21,8   | 13,1   | 8,89                 | 6,49   | 12,5   | 25,7   | 28,9   |
| 6.                                  | 9,11   | 8,36               | 8,25              | 9,88              | 10,8               | 21,3   | 11,0   | 9,33                 | 6,49   | 11,9   | 23,1   | 29,1   |
| 7.                                  | 9,44   | 8,79               | 8,79              | 9,44              | 10,3               | 19,5   | 9,55   | 8,68                 | 7,21   | 12,0   | 22,4   | 34,7   |
| 8.                                  | 9,11   | 9,55               | 8,47              | 8,14              | 9,66               | 16,3   | 9,11   | 7,72                 | 7,52   | 11,8   | 20,6   | 49,2   |
| 9.                                  | 9,66   | 8,47               | 8,57              | 8,89              | 8,14               | 14,7   | 9,00   | 8,68                 | 7,00   | 11,3   | 24,2   | 46,4   |
| 10.                                 | 8,57   | 9,11               | 6,90              | 8,68              | 9,11               | 13,6   | 8,36   | 7,62                 | 6,39   | 10,8   | 25,7   | 40,5   |
| 11.                                 | 8,68   | 9,33               | 7,83              | 7,93 <sup>^</sup> | 9,00               | 12,5   | 7,62   | 7,93                 | 10,7   | 12,5   | 21,8   | 35,7   |
| 12.                                 | 7,93   | 9,66               | 9,22              | 7,62 <sup>^</sup> | 8,57               | 10,9   | 8,14   | 8,04                 | 20,3   | 9,77   | 18,7   | 31,6   |
| 13.                                 | 8,89   | 7,72               | 13,6              | 7,72 <sup>^</sup> | 9,00               | 10,3   | 8,04   | 7,62                 | 24,5   | 11,4   | 20,3   | 28,2   |
| 14.                                 | 9,44   | 9,11               | 17,6              | 7,93 <sup>^</sup> | 8,68               | 10,4   | 7,83   | 7,11                 | 22,8   | 11,9   | 18,4   | 24,3   |
| 15.                                 | 9,99   | 10,4               | 19,5              | 7,52 <sup>^</sup> | 9,00               | 10,8   | 7,62   | 8,57                 | 18,7   | 14,2   | 16,5   | 19,8   |
| 16.                                 | 10,7   | 9,11               | 18,1              | 8,47 <sup>^</sup> | 9,66               | 13,8   | 7,72   | 7,00                 | 17,3   | 14,7   | 15,3   | 17,4   |
| 17.                                 | 13,1   | 9,22               | 23,1              | 7,42 <sup>^</sup> | 9,00               | 15,3   | 7,21   | 7,42                 | 16,1   | 14,0   | 14,8   | 16,9   |
| 18.                                 | 12,4   | 8,79               | 23,0              | 7,11 <sup>^</sup> | 8,25               | 12,2   | 7,42   | 6,29                 | 17,3   | 13,4   | 16,0   | 15,3   |
| 19.                                 | 10,8   | 8,89               | 21,3              | 7,62 <sup>^</sup> | 9,33               | 11,9   | 6,90   | 6,39                 | 22,7   | 12,2   | 14,1   | 14,8   |
| 20.                                 | 11,6   | 7,72               | 20,0              | 7,42 <sup>^</sup> | 8,89               | 11,0   | 7,21   | 6,39                 | 25,9   | 11,8   | 13,5   | 17,3   |
| 21.                                 | 10,4   | 8,89               | 18,7              | 7,11 <sup>^</sup> | 8,89               | 11,2   | 8,57   | 6,39                 | 27,4   | 11,7   | 14,8   | 17,2   |
| 22.                                 | 9,66   | 9,55               | 20,3              | 6,80 <sup>^</sup> | 12,3               | 11,1   | 9,00   | 6,49                 | 27,8   | 12,3   | 14,7   | 15,3   |
| 23.                                 | 10,2   | 8,79               | 20,7              | 6,80 <sup>^</sup> | 11,4               | 11,2   | 8,79   | 6,46                 | 23,7   | 19,3   | 17,6   | 14,7   |
| 24.                                 | 10,4   | 10,1               | 18,0              | 6,39 <sup>^</sup> | 12,3               | 11,2   | 9,11   | 7,52                 | 16,4   | 28,4   | 17,0   | 15,2   |
| 25.                                 | 9,55   | 8,57               | 15,3 <sup>^</sup> | 6,70 <sup>^</sup> | 13,0               | 10,7   | 7,11   | 7,62                 | 14,7   | 45,0   | 15,4   | 13,6   |
| 26.                                 | 9,33   | 8,79               | 13,7 <sup>^</sup> | 7,31 <sup>^</sup> | 13,0               | 9,77   | 10,4   | 7,62                 | 16,8   | 47,8   | 14,8   | 13,6   |
| 27.                                 | 9,55   | 9,88               | 16,1 <sup>^</sup> | 7,72 <sup>^</sup> | 15,0               | 9,33   | 8,14   | 7,83                 | 23,0   | 36,4   | 14,4   | 13,7   |
| 28.                                 | 9,66   | 10,3               | 17,3 <sup>^</sup> | 10,3 <sup>^</sup> | 18,6               | 9,55   | 5,88   | 6,80                 | 26,2   | 29,9   | 15,5   | 16,0   |
| 29.                                 | 7,31   | 11,4               | 16,3 <sup>^</sup> |                   | 15,2               | 9,00   | 6,39   | 7,21                 | 26,8   | 25,5   | 16,4   | 18,6   |
| 30.                                 | 9,99   | 14,8               | 13,6 <sup>^</sup> |                   | 13,8               | 7,52   | 6,70   | 7,52                 | 25,0   | 22,7   | 15,8   | 16,5   |
| 31.                                 |        | 13,2               | 11,4 <sup>^</sup> |                   | 15,0               |        | 7,62   |                      | 23,9   | 18,3   |        | 15,6   |
| Σ                                   | 294,03 | 444,77             | 227,45            | 227,45            | 396,37             | 259,87 | 259,87 | 516,81               | 560,87 | 560,87 | 716,60 | 716,60 |
|                                     |        | 295,03             |                   |                   | 340,67             |        |        | 231,82               |        | 535,60 |        |        |
|                                     |        | Wi: n 181; 1998,32 |                   |                   | So: n 184; 2821,57 |        |        | Jahr: n 365; 4819,89 |        |        |        |        |

Hauptzahlen

|                                   | Nov  | Dez         | Jan  | Febr | März | Apr  | Mai  | Juni | Juli | Aug  | Sept | Okt         | Wi   | So   | Jahr |
|-----------------------------------|------|-------------|------|------|------|------|------|------|------|------|------|-------------|------|------|------|
| <b>Abflüsse (m<sup>3</sup>/s)</b> |      |             |      |      |      |      |      |      |      |      |      |             |      |      |      |
| am                                | 29.  | 13.,<br>20. | 10.  | 24.  | 9.   | 30.  | 28.  | 18.  | 10.  | 12.  | 20.  | 25.,<br>26. |      |      |      |
| NQ                                | 7,31 | 7,72        | 6,90 | 6,39 | 8,14 | 7,52 | 5,88 | 6,29 | 6,39 | 9,77 | 13,5 | 13,6        | 6,39 | 5,88 | 5,88 |
| MQ                                | 9,80 | 9,52        | 14,3 | 8,12 | 11,0 | 13,2 | 8,38 | 7,73 | 16,7 | 18,1 | 17,9 | 23,1        | 11,0 | 15,3 | 13,2 |
| HQ                                | 14,3 | 15,8        | 24,6 | 12,2 | 20,0 | 22,2 | 14,9 | 11,4 | 28,2 | 55,8 | 26,0 | 50,6        | 24,6 | 55,8 | 55,8 |
| am                                | 17.  | 30.         | 18.  | 2.   | 28.  | 5.   | 5.   | 3.   | 22.  | 25.  | 10.  | 8.          |      |      |      |

19—/19—\*)

Spenden (l/s km<sup>2</sup>):

| 1954 |      |      |      | 19—/19—*) |    |      |     |
|------|------|------|------|-----------|----|------|-----|
|      | Wi   | So   | Jahr | Wi        | So | Jahr |     |
| Nq   | 3,67 | 3,38 | 3,38 |           |    |      | MNq |
| Mq   | 6,32 | 8,79 | 7,59 |           |    |      | Mq  |
| Hq   | 14,1 | 32,1 | 32,1 |           |    |      | MHq |

Äußerste Abflüsse (m<sup>3</sup>/s) und Abflußpenden (l/s km<sup>2</sup>)

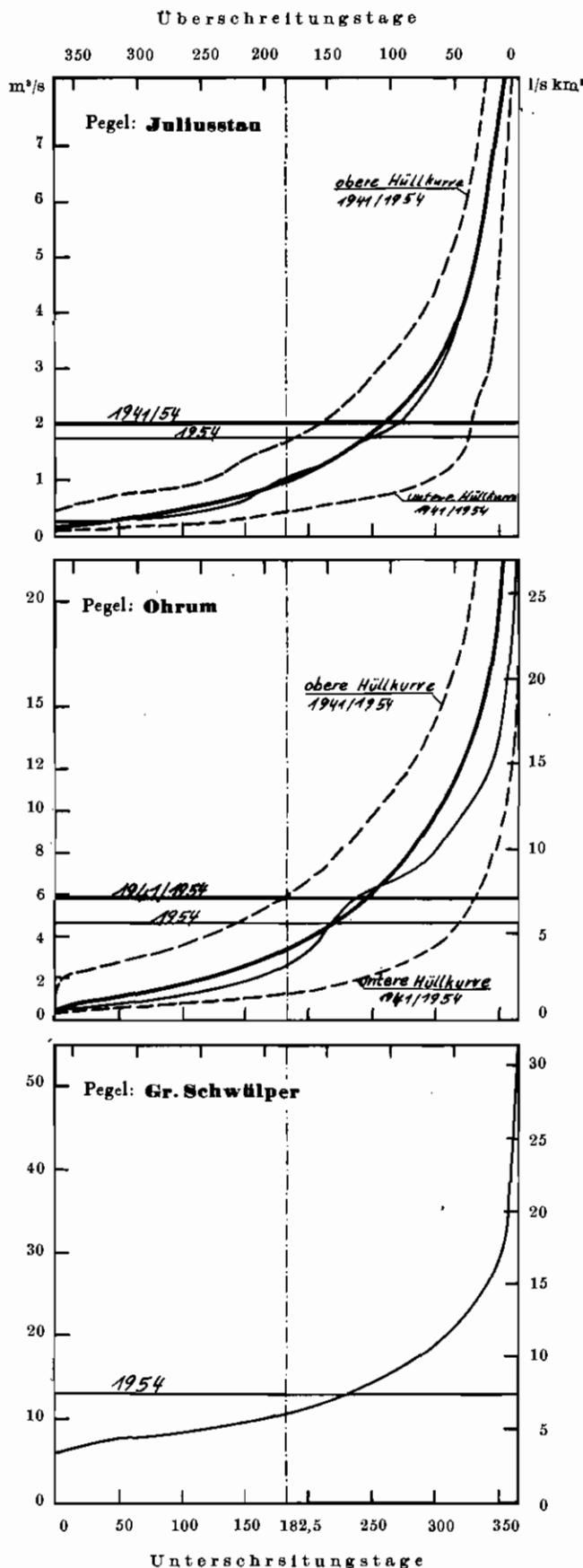
|           | NQ   | Nq   | HQ          | Hq                |
|-----------|------|------|-------------|-------------------|
| 1954      | 5,88 | 3,38 | 28. Mai     | 55,8 = 437 cm a P |
| 1941/50*) |      |      |             | 32,1 25. Aug      |
| seit 1951 | NNQ  | NNq  | HHQ         | HHq               |
|           | 2,98 | 1,72 | 1. Nov 1951 | 55,8 = 437 cm a P |
|           |      |      |             | 32,1 25. Aug      |

Elaverhältnisse 1954: Randeis an 24 Tagen, Eisstand an 12 Tagen. Da am 10. Februar nach Beendigung der Eisstand-Periode keine größere Wasserführung zu beobachten war, somit anscheinend keine wesentliche Beeinträchtigung der Wasserführung stattgefunden hat, ist der Eisstand bei der Bildung der Abflüsse nicht berücksichtigt worden.

\*) Vergleichsreihe und Grenzwerte können noch nicht gebracht werden, da seit 27. August 1951 neuer Pegel.

LfG Hannover

Dauerlinien und Jahresmittel der Abflüsse und Abflußpenden





| Radau   |                  |                     |                   |                    |                      |      |      |       |       | Pegel: Harzburg |       |                                |       |       |        |       |        |       |       | Leine |        |        |        |      |  |  |  |  |  | Pegel: Nörten-Hardenberg   |  |  |  |  |  |  |  |  |  |
|---|------------------|---------------------|-------------------|--------------------|----------------------|------|------|-------|-------|-----------------|-------|--------------------------------|-------|-------|--------|-------|--------|-------|-------|-------|--------|--------|--------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 14,0 km oberhalb der Mündung<br>PN = NN + 406,91 m. FN = 18,1 km <sup>2</sup> *)<br>nach mittleren Tageswasserständen |                  |                     |                   |                    |                      |      |      |       |       |                 |       |                                |       |       |        |       |        |       |       |       |        |        |        |      |  |  |  |  |  | 218 km oberhalb der Mündung<br>PN = NN + 125,09 m n. S. FN = 883 km <sup>2</sup><br>nach mittleren Tageswasserständen [s. S. 34] |  |  |  |  |  |  |  |  |  |
| Nov   | Dez              | Jan                 | Febr              | März               | April                | Mai  | Juni | Juli  | Aug   | Sept            | Okt   | Tag                            | Nov   | Dez   | Jan    | Febr  | März   | April | Mai   | Juni  | Juli   | Aug    | Sept   | Okt  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Tageswerte (m <sup>3</sup> /s)**)   |                  |                     |                   |                    |                      |      |      |       |       |                 |       | Tageswerte (m <sup>3</sup> /s) |       |       |        |       |        |       |       |       |        |        |        |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0,16  | 0,10             | 0,13                | 0,24              | 0,20               | 1,06                 | 0,25 | 0,28 | 0,08  | 0,50  | 0,23            | 1,20  | 1.                             | 3,20  | 2,36  | 2,24   | 2,84  | 8,31   | 3,20  | 2,96  | 2,36  | 2,24   | 6,93   | 7,80   | 11,3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0,15  | 0,10             | 0,13                | 0,24              | 0,17               | 0,82                 | 0,25 | 0,21 | 0,08  | 0,49  | 0,22            | 0,83  | 2.                             | 2,96  | 2,48  | 2,24   | 2,72  | 5,84   | 3,54  | 2,72  | 2,24  | 2,48   | 6,40   | 7,63   | 14,2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0,15  | 0,10             | 0,12                | 0,20              | 0,14               | 1,23                 | 0,27 | 0,21 | 0,08  | 0,40  | 1,46            | 0,60  | 3.                             | 2,84  | 2,36  | 2,24   | 2,60  | 4,22   | 3,65  | 2,60  | 2,84  | 2,36   | 5,84   | 14,2   | 12,8 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0,13  | 0,10             | 0,12                | 0,20              | 0,20               | 1,39                 | 0,37 | 0,14 | 0,08  | 0,36  | 0,60            | 0,55  | 4.                             | 2,84  | 2,24  | 2,12   | 2,60  | 4,10   | 3,88  | 3,08  | 3,42  | 2,48   | 5,50   | 13,0   | 11,3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0,12  | 0,10             | 0,11                | 0,20              | 0,20               | 1,16                 | 0,27 | 0,13 | 0,08  | 0,30  | 0,41            | 0,53  | 5.                             | 2,84  | 2,24  | 2,24   | 2,60  | 3,77   | 4,10  | 3,31  | 3,08  | 2,72   | 5,50   | 10,0   | 11,3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0,12  | 0,10             | 0,09                | 0,20              | 0,17               | 0,84                 | 0,24 | 0,10 | 0,08  | 0,27  | 0,34            | 1,29  | 6.                             | 2,84  | 2,12  | 2,12   | 2,60  | 3,65   | 4,10  | 3,08  | 2,72  | 3,20   | 5,33   | 8,82   | 18,3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0,12  | 0,10             | 0,08                | 0,20              | 0,14               | 0,62                 | 0,22 | 0,14 | 0,09  | 0,27  | 0,30            | 0,90  | 7.                             | 2,84  | 2,12  | 2,12   | 2,48  | 3,54   | 3,88  | 2,96  | 2,60  | 3,31   | 5,33   | 8,99   | 23,2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0,12  | 0,10             | 0,08                | 0,20              | 0,14               | 0,50                 | 0,21 | 0,13 | 0,08  | 0,27  | 0,27            | 0,65  | 8.                             | 2,84  | 2,12  | 2,00   | 2,48  | 3,20   | 3,77  | 2,48  | 2,48  | 2,84   | 5,33   | 9,33   | 17,7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0,12  | 0,11             | 0,08                | 0,20              | 0,17               | 0,51                 | 0,20 | 0,11 | 0,08  | 0,29  | 0,27            | 0,55  | 9.                             | 2,60  | 2,12  | 2,00   | 2,48  | 3,08   | 3,77  | 2,12  | 2,24  | 2,48   | 5,84   | 8,48   | 16,0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0,12  | 0,11             | 0,08                | 0,20              | 0,20               | 0,43                 | 0,19 | 0,11 | 0,08  | 0,34  | 0,27            | 0,51  | 10.                            | 2,48  | 2,00  | 2,00   | 2,48  | 2,96   | 3,65  | 1,67  | 2,24  | 2,48   | 5,50   | 7,80   | 14,6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0,10  | 0,11             | 0,08                | 0,24              | 0,28               | 0,39                 | 0,16 | 0,10 | 0,28  | 0,33  | 0,37            | 0,47  | 11.                            | 2,60  | 1,89  | 2,12   | 2,48  | 2,96   | 3,54  | 1,89  | 2,24  | 2,60   | 4,84   | 7,80   | 13,6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0,10  | 0,09             | 0,47                | 0,24              | 0,28               | 0,34                 | 0,16 | 0,10 | 0,84  | 0,29  | 0,43            | 0,42  | 12.                            | 2,60  | 2,00  | 2,48   | 2,48  | 2,84   | 3,20  | 2,12  | 2,36  | 4,22   | 5,03   | 9,16   | 12,5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0,10  | 0,09             | 0,40                | 0,24              | 0,28               | 0,33                 | 0,15 | 0,10 | 0,70  | 0,28  | 0,40            | 0,37  | 13.                            | 2,48  | 1,89  | 3,20   | 2,60  | 2,84   | 3,08  | 2,12  | 2,84  | 5,50   | 5,03   | 9,68   | 11,3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0,13  | 0,09             | 0,27                | 0,24              | 0,24               | 0,31                 | 0,15 | 0,10 | 0,46  | 0,33  | 0,30            | 0,37  | 14.                            | 2,48  | 2,00  | 3,42   | 2,84  | 2,84   | 3,08  | 2,12  | 2,96  | 4,50   | 5,84   | 9,33   | 10,8 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0,23  | 0,09             | 0,60                | 0,24              | 0,24               | 0,88                 | 0,15 | 0,09 | 0,44  | 0,32  | 0,27            | 0,36  | 15.                            | 2,36  | 2,00  | 3,31   | 2,60  | 2,72   | 3,20  | 2,12  | 2,84  | 3,99   | 6,05   | 8,82   | 10,2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0,39  | 0,09             | 1,40                | 0,24              | 0,21               | 0,73                 | 0,15 | 0,09 | 0,35  | 0,35  | 0,37            | 0,32  | 16.                            | 2,48  | 2,00  | 5,84   | 2,36  | 2,72   | 3,31  | 2,12  | 3,08  | 3,77   | 6,22   | 8,65   | 9,68 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0,27  | 0,09             | 0,60                | 0,20              | 0,24               | 0,59                 | 0,15 | 0,09 | 0,45  | 0,25  | 0,46            | 0,35  | 17.                            | 2,36  | 2,00  | 4,50   | 2,24  | 2,60   | 3,20  | 2,60  | 2,60  | 4,10   | 5,67   | 9,33   | 9,16 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0,16  | 0,09             | 0,40                | 0,20              | 0,36               | 0,50                 | 0,15 | 0,09 | 2,28  | 0,22  | 0,34            | 0,31  | 18.                            | 2,36  | 1,89  | 4,50   | 2,12  | 2,48   | 3,08  | 2,60  | 2,36  | 4,84   | 5,16   | 8,65   | 9,16 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0,13  | 0,09             | 0,33                | 0,20              | 0,41               | 0,49                 | 0,13 | 0,09 | 1,68  | 0,22  | 0,35            | 0,37  | 19.                            | 2,36  | 1,89  | 4,50   | 2,24  | 2,48   | 3,08  | 2,72  | 2,60  | 5,33   | 6,05   | 8,48   | 8,82 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0,13  | 0,09             | 0,97                | 0,20              | 0,92               | 0,45                 | 0,23 | 0,08 | 0,90  | 0,20  | 0,39            | 0,35  | 20.                            | 2,36  | 2,00  | 4,33   | 2,24  | 2,60   | 3,08  | 2,36  | 2,72  | 4,84   | 6,57   | 8,65   | 8,31 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0,13  | 0,09             | 0,99                | 0,17              | 0,92               | 0,56                 | 0,33 | 0,12 | 0,59  | 0,21  | 0,32            | 0,32  | 21.                            | 2,12  | 2,00  | 5,84   | 2,12  | 2,60   | 3,20  | 1,89  | 2,96  | 4,22   | 6,57   | 8,14   | 7,97 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0,13  | 0,09             | 0,57                | 0,20              | 0,84               | 0,56                 | 0,22 | 0,13 | 0,52  | 0,36  | 0,31            | 0,34  | 22.                            | 2,00  | 2,24  | 5,16   | 2,24  | 2,60   | 3,08  | 2,36  | 2,84  | 4,10   | 6,76   | 8,31   | 7,63 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0,10  | 0,09             | 0,44                | 0,20              | 0,84               | 0,47                 | 0,17 | 0,08 | 0,45  | 1,98  | 0,36            | 0,51  | 23.                            | 1,89  | 2,48  | 4,33   | 2,24  | 2,60   | 2,96  | 2,72  | 2,72  | 3,99   | 11,0   | 8,14   | 7,80 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0,10  | 0,11             | 0,44                | 0,20              | 0,63               | 0,40                 | 0,16 | 0,08 | 0,45  | 0,76  | 0,30            | 0,39  | 24.                            | 2,24  | 2,48  | 4,10   | 2,24  | 2,60   | 2,96  | 3,20  | 2,24  | 3,99   | 11,3   | 8,31   | 7,63 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0,10  | 0,11             | 0,44                | 0,20              | 0,68               | 0,40                 | 0,15 | 0,08 | 0,44  | 0,46  | 0,25            | 0,43  | 25.                            | 2,60  | 2,24  | 3,99   | 2,24  | 2,60   | 2,84  | 2,36  | 2,12  | 3,99   | 8,82   | 8,14   | 7,80 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0,10  | 0,11             | 0,40                | 0,37              | 0,91               | 0,35                 | 0,13 | 0,10 | 2,16  | 0,40  | 0,37            | 0,34  | 26.                            | 2,48  | 2,36  | 3,65   | 7,97  | 2,72   | 2,96  | 1,89  | 2,48  | 7,80   | 8,65   | 8,48   | 7,63 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0,10  | 0,16             | 0,37                | 0,28              | 1,07               | 0,34                 | 0,12 | 0,13 | 0,92  | 0,34  | 0,51            | 0,34  | 27.                            | 2,48  | 2,60  | 3,20   | 6,76  | 3,20   | 2,96  | 1,78  | 2,72  | 8,48   | 8,31   | 9,33   | 7,63 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0,10  | 0,22             | 0,35                | 0,24              | 0,61               | 0,25                 | 0,12 | 0,12 | 0,67  | 0,34  | 0,37            | 0,44  | 28.                            | 2,36  | 2,96  | 3,20   | 4,67  | 3,08   | 2,96  | 1,78  | 2,84  | 6,76   | 7,97   | 9,33   | 8,31 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0,10  | 0,17             | 0,33                | 0,49              | 0,25               | 0,11                 | 0,09 | 0,79 | 0,41  | 0,41  | 0,28            | 0,34  | 29.                            | 2,24  | 2,84  | 3,08   | 2,96  | 2,96   | 3,08  | 2,60  | 2,60  | 6,76   | 7,80   | 8,82   | 7,80 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0,10  | 0,13             | 0,33                | 0,55              | 0,23               | 0,13                 | 0,09 | 0,78 | 0,30  | 0,41  | 0,41            | 0,34  | 30.                            | 2,36  | 2,72  | 2,96   | 2,96  | 2,96   | 3,31  | 2,12  | 7,28  | 7,80   | 8,82   | 7,63   |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0,13  | 0,33             | 0,74                | 0,13              | 0,71               | 0,30                 | 0,34 | 31.  | 2,48  | 2,84  | 3,08            | 2,36  | 6,93                           | 7,46  | 7,80  |        |       |        |       |       |       |        |        |        |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4,11  | 3,35             | 11,53               | 6,18              | 13,47              | 17,38                | 5,82 | 3,51 | 17,67 | 12,14 | 11,53           | 15,43 | Σ                              | 75,49 | 69,12 | 101,87 | 80,56 | 100,75 | 99,23 | 76,48 | 78,46 | 134,58 | 206,40 | 339,86 |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Wi: n 181; 56,02  | So: n 184; 66,10 | Jahr: n 365; 122,12 | Wi: n 181; 527,02 | So: n 184; 1106,20 | Jahr: n 365; 1633,22 |      |      |       |       |                 |       |                                |       |       |        |       |        |       |       |       |        |        |        |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Hauptzahlen

Nov Dez Jan Febr März Apr Mai Juni Juli Aug Sept Okt Wi So Jahr

Table with columns for months and years (1954, 1941/1950) showing discharge values (m³/s) for various gauging stations (N, MN, M, MH, H, HQ).

Spenden (l/s km²):

Table showing average discharge (Spends) in l/s km² for various gauging stations (Nq, Mq, Hq) across different years (19, 19-19-).

Äußerste Abflüsse (m³/s) und Abflußpenden (l/s km²)

Table showing extreme discharges and average discharges for gauging stations NQ, Nq, HQ, Hq, NNQ, NNq, IIIQ, IIIq, HHQ, HHq.

Eisverhältnisse 1954: Grundeis an 18 Tagen.

\*) Einschließlich der zum Radauwasserfall abgeleiteten Abflüsse.

\*\*) Nach Abflußkurve 1954.

Harzwasserwerke

Hauptzahlen

Nov Dez Jan Febr März Apr Mai Juni Juli Aug Sept Okt Wi So Jahr

Table with columns for months and years (1954, 19-19-\*) showing discharge values (m³/s) for various gauging stations (am, NQ, MNQ, MQ, MHQ, HQ, HQ).

Spenden (l/s km²):

Table showing average discharge (Spends) in l/s km² for various gauging stations (Nq, Mq, Hq) across different years (1954, 19-19-).

Äußerste Abflüsse (m³/s) und Abflußpenden (l/s km²)

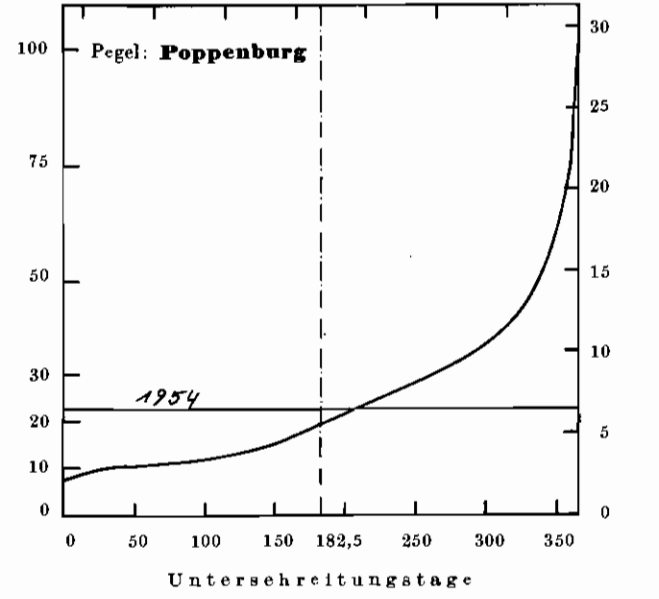
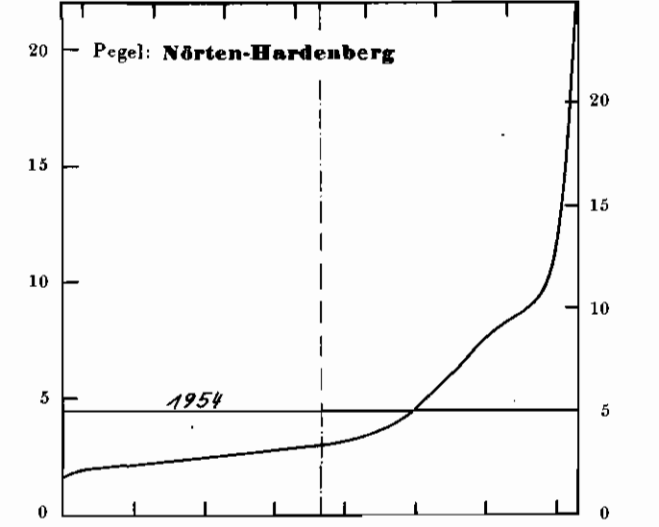
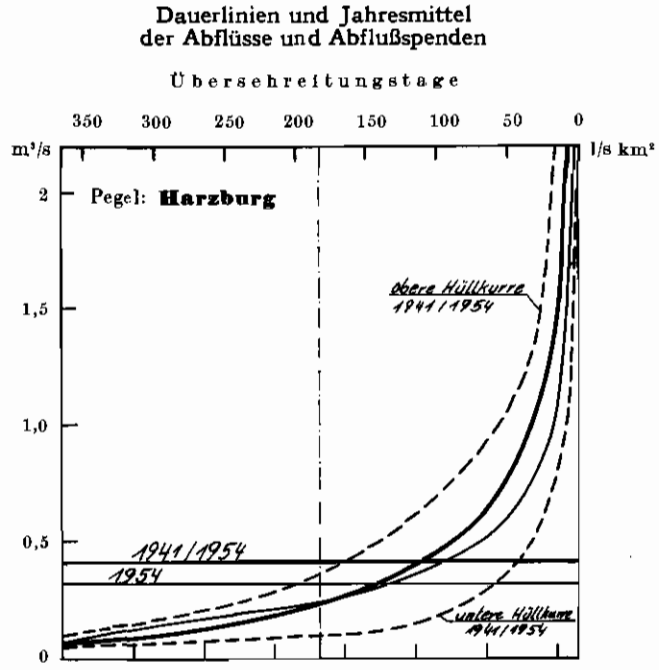
Table showing extreme discharges and average discharges for gauging stations NQ, Nq, HQ, Hq, NNQ, NNq, HHQ, HHq.

Eisverhältnisse 1954: Treibeis an 8 Tagen, Eisstand an 5 Tagen. Eine Abflußbehinderung durch Eis ist nicht erkennbar.

\*) Der Pegel besteht seit 1. November 1952. Die Abflußkurve hat seit 1. November 1953 Gültigkeit. Eine Vergleichsreihe kann daher noch nicht gebracht werden.

LfG Hannover

| Leine  |                    | Pegel: Poppenburg |                   |                    |       |       |        |         |                      |       |        |      |
|--|--------------------|-------------------|-------------------|--------------------|-------|-------|--------|---------|----------------------|-------|--------|------|
| 130 km oberhalb der Mündung<br>PN = NN + 68,46 m n. S. F <sub>N</sub> = 3467 km <sup>2</sup><br>nach mittleren Tageswasserständen [s. S. 36] |                    |                   |                   |                    |       |       |        |         |                      |       |        |      |
| Tag  | Nov                | Dez               | Jan               | Febr               | März  | April | Mai    | Juni    | Juli                 | Aug   | Sept   | Okt  |
| <b>Tageswerte (m<sup>3</sup>/s)</b>  |                    |                   |                   |                    |       |       |        |         |                      |       |        |      |
| 1.   | 17,0               | 13,4              | 14,8              | 24,7 <sup>†</sup>  | 31,4  | 27,7  | 11,9   | 11,6    | 9,28                 | 44,0  | 29,5   | 46,3 |
| 2.   | 14,8               | 12,3              | 13,4              | 28,0 <sup>°</sup>  | 31,7  | 31,0  | 11,6   | 12,3    | 8,96                 | 38,4  | 27,7   | 61,8 |
| 3.   | 14,4               | 12,6              | 13,0              | 28,8 <sup>†</sup>  | 28,4  | 32,5  | 11,9   | 13,0    | 8,96                 | 34,7  | 27,3   | 64,0 |
| 4.   | 14,4               | 12,6              | 13,0              | 27,7 <sup>°</sup>  | 28,0  | 38,4  | 13,7   | 11,6    | 8,32                 | 32,8  | 42,1   | 56,2 |
| 5.   | 14,8               | 12,3              | 13,0              | 27,7 <sup>†</sup>  | 22,0  | 40,6  | 15,2   | 11,9    | 8,64                 | 30,6  | 37,0   | 50,1 |
| 6.   | 13,7               | 11,6              | 11,9              | 25,8 <sup>°</sup>  | 20,6  | 38,4  | 14,1   | 11,2    | 8,96                 | 28,8  | 31,0   | 66,4 |
| 7.   | 14,4               | 12,6              | 9,28              | 23,9               | 22,0  | 35,1  | 13,7   | 9,60    | 10,2                 | 26,9  | 28,0   | 96,2 |
| 8.   | 13,4               | 11,9              | 10,2              | 22,0 <sup>†</sup>  | 17,7  | 31,7  | 12,6   | 10,2    | 11,2                 | 25,0  | 33,2   | 94,1 |
| 9.   | 14,1               | 11,2              | 10,6              | 19,5 <sup>†</sup>  | 16,2  | 28,8  | 13,0   | 9,92    | 8,96                 | 23,9  | 36,6   | 86,5 |
| 10.  | 13,4               | 12,3              | 11,2              | 18,4 <sup>†</sup>  | 16,2  | 26,9  | 11,2   | 10,6    | 9,28                 | 24,7  | 29,9   | 71,6 |
| 11.  | 13,4               | 12,3              | 11,6              | 15,2 <sup>°</sup>  | 15,9  | 24,3  | 10,6   | 10,2    | 11,2                 | 23,9  | 28,0   | 61,4 |
| 12.  | 13,0               | 11,6              | 15,5              | 13,7 <sup>†</sup>  | 16,2  | 22,0  | 9,92   | 10,9    | 27,7                 | 23,1  | 32,1   | 54,3 |
| 13.  | 13,7               | 11,2              | 28,8              | 13,0 <sup>°</sup>  | 16,2  | 21,3  | 10,2   | 10,2    | 47,4                 | 22,8  | 35,1   | 50,9 |
| 14.  | 12,3               | 11,6              | 34,0              | 14,1               | 15,9  | 20,6  | 9,92   | 10,6    | 56,9                 | 22,0  | 32,1   | 46,7 |
| 15.  | 13,7               | 11,6              | 34,0              | 14,1               | 15,5  | 21,6  | 8,96   | 10,9    | 46,7                 | 24,7  | 30,6   | 44,0 |
| 16.  | 14,4               | 11,9              | 50,5              | 13,0 <sup>°</sup>  | 15,2  | 27,7  | 8,64   | 10,9    | 43,3                 | 26,9  | 29,5   | 41,4 |
| 17.  | 15,2               | 11,6              | 55,8              | 12,3               | 15,9  | 25,8  | 9,28   | 9,60    | 37,3                 | 24,7  | 30,6   | 39,2 |
| 18.  | 14,8               | 10,9              | 46,7              | 11,6               | 15,5  | 22,8  | 8,32   | 10,9    | 48,2                 | 23,1  | 31,0   | 35,5 |
| 19.  | 14,4               | 10,9              | 44,0              | 11,6               | 15,5  | 21,3  | 9,28   | 8,96    | 61,8                 | 22,0  | 29,5   | 35,1 |
| 20.  | 14,1               | 11,6              | 40,6              | 11,2               | 18,0  | 20,9  | 10,6   | 9,92    | 62,5                 | 22,8  | 29,5   | 36,6 |
| 21.  | 13,7               | 11,2              | 41,7              | 10,6               | 19,1  | 21,6  | 13,0   | 7,75    | 57,3                 | 22,0  | 31,4   | 35,1 |
| 22.  | 13,7               | 11,2              | 45,5              | 9,92               | 19,8  | 22,0  | 13,7   | 8,00    | 44,4                 | 22,8  | 30,6   | 34,3 |
| 23.  | 13,0               | 11,2              | 41,7              | 9,28               | 20,6  | 20,9  | 12,6   | 9,28    | 36,6                 | 45,9  | 31,4   | 35,5 |
| 24.  | 13,0               | 10,6              | 37,7              | 9,60               | 22,4  | 19,5  | 11,6   | 8,96    | 32,8                 | 68,1  | 30,6   | 37,0 |
| 25.  | 13,4               | 12,3              | 34,0              | 9,60               | 22,0  | 18,4  | 11,2   | 8,64    | 32,1                 | 56,6  | 28,8   | 35,1 |
| 26.  | 13,0               | 11,2              | 28,4              | 15,9               | 23,1  | 16,6  | 11,2   | 8,96    | 42,5                 | 47,4  | 28,8   | 35,5 |
| 27.  | 13,0               | 10,6              | 24,7 <sup>†</sup> | 32,1               | 28,8  | 15,9  | 10,9   | 7,75    | 65,6                 | 41,0  | 32,1   | 35,5 |
| 28.  | 13,4               | 15,2              | 22,4 <sup>†</sup> | 24,3               | 30,2  | 16,2  | 10,9   | 8,96    | 63,6                 | 37,0  | 34,7   | 42,9 |
| 29.  | 12,6               | 17,7              | 22,8 <sup>†</sup> | 26,5               | 13,7  | 9,92  | 9,92   | 7,75    | 55,0                 | 35,9  | 34,7   | 42,1 |
| 30.  | 14,4               | 17,3              | 24,3 <sup>†</sup> | 24,7               | 11,6  | 10,6  | 10,6   | 9,92    | 51,2                 | 33,2  | 33,6   | 39,9 |
| 31.  | 16,2               | 23,9 <sup>†</sup> | 24,7              | 11,9               | 49,3  | 30,2  | 39,9   |         |                      |       |        |      |
| Σ  | 416,6              | 382,7             | 828,98            | 497,60             | 655,9 | 735,8 | 352,14 | 1066,16 | 985,9                | 947,0 | 1551,1 |      |
|  | Wi: n 181; 3517,6c |                   |                   | So: n 184; 5203,27 |       |       | 300,97 |         | Jahr: n 365; 8720,87 |       |        |      |



**Hauptzahlen**

|  | Nov  | Dez      | Jan  | Febr | März | Apr  | Mai  | Juni | Juli | Aug  | Sept | Okt  | Wi   | So   | Jahr |
|--|------|----------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| <b>Abflüsse (m<sup>3</sup>/s) 1954</b> |      |          |      |      |      |      |      |      |      |      |      |      |      |      |      |
| am                                     | 14.  | 24., 27. | 7.   | 23.  | 16.  | 30.  | 18.  | oft  | 4.   | oft  | 3.   | 22.  |      |      |      |
| NQ                                     | 12,3 | 10,6     | 9,28 | 9,28 | 15,2 | 11,6 | 8,32 | 7,75 | 8,32 | 22,0 | 27,3 | 34,3 | 9,28 | 7,75 | 7,75 |
| HQ                                     | 13,9 | 12,3     | 26,7 | 14,9 | 21,2 | 24,5 | 11,4 | 10,0 | 34,4 | 31,8 | 31,6 | 50,0 | 19,4 | 28,3 | 23,9 |
| MQ                                     | 18,4 | 18,8     | 58,1 | 37,4 | 37,7 | 41,0 | 16,2 | 14,8 | 69,4 | 71,6 | 45,5 | 97,3 | 58,1 | 97,3 | 97,3 |
| am                                     | 1.   | 30.      | 16.  | 27.  | 2.   | 5.   | 5.   | 18.  | 27.  | 24.  | 4.   | 7.   |      |      |      |

**19—/19—\*)**

|    | 1954 |      |      | 19—/19—*) |    |      |
|----|------|------|------|-----------|----|------|
|    | Wi   | So   | Jahr | Wi        | So | Jahr |
| Nq | 2,68 | 2,24 | 2,24 |           |    |      |
| Mq | 5,60 | 8,16 | 6,89 |           |    |      |
| Hq | 16,8 | 28,1 | 28,1 |           |    |      |

| <b>Äußerste Abflüsse (m<sup>3</sup>/s) und Abflußpenden (l/s km<sup>3</sup>)</b> |      |      |          |                   |      |        |      |
|--|------|------|----------|-------------------|------|--------|------|
|  | NQ   | Nq   | HQ       | Hq                |      |        |      |
| 1954   | 7,75 | 2,24 | Juni oft | 97,3 = 310 cm a P | 28,1 | 7. Okt |      |
| 1941/50*)  |      |      |          |                   |      |        |      |
| seit 1952  | NNQ  | NNq  | HHQ      | HHq               |      |        |      |
|  | 7,75 | 2,24 | Juni oft | 97,3 = 310 cm a P | 28,1 | 7. Okt | 1954 |

**Eisverhältnisse 1954:** Eisbewegung an 1 Tag, Eisstand an 1 Tag, Randeis und Eisbewegung an 11 Tagen.  
\*) Seit 1. November 1951 neuer Pegel. Jahresreihe und Grenzwerte können noch nicht gebracht werden.

| Leine   |       |        |                   |       |        |       |                      |        |        | Leine  |        |     |                                |       |                   |                   |                   |       |                      |       |        |        |      |        |  |
|---|-------|--------|-------------------|-------|--------|-------|----------------------|--------|--------|--|--------|-----|--------------------------------|-------|-------------------|-------------------|-------------------|-------|----------------------|-------|--------|--------|------|--------|--|
| Pegel: Herrenhausen   |       |        |                   |       |        |       |                      |        |        | Pegel: Basse   |        |     |                                |       |                   |                   |                   |       |                      |       |        |        |      |        |  |
| 87,02 km oberhalb der Mündung<br>PN = NN + 43,84 m. FN = 5329 km <sup>2</sup><br>nach mittleren Tageswasserständen [s. S. 36] |       |        |                   |       |        |       |                      |        |        | 35,9 km oberhalb der Mündung<br>PN = NN + 28,50 m. FN = 6137 km <sup>2</sup><br>12-Uhr-Ablesungen [s. S. 37] |        |     |                                |       |                   |                   |                   |       |                      |       |        |        |      |        |  |
| Nov   | Dez   | Jan    | Febr              | März  | April  | Mai   | Juni                 | Juli   | Aug    | Sept   | Okt    | Tag | Nov                            | Dez   | Jan               | Febr              | März              | April | Mai                  | Juni  | Juli   | Aug    | Sept | Okt    |  |
| Tageswerte (m <sup>3</sup> /s)  |       |        |                   |       |        |       |                      |        |        |  |        |     | Tageswerte (m <sup>3</sup> /s) |       |                   |                   |                   |       |                      |       |        |        |      |        |  |
| 21,5  | 15,9  | 20,2   | 21,5              | 39,0  | 35,5   | 23,2  | 17,7                 | 14,0   | 61,5   | 37,5   | 46,8   | 1.  | 17,2                           | 14,6  | 17,6              | 29,2 <sup>∩</sup> | 29,8 <sup>∩</sup> | 31,6  | 20,5                 | 15,6  | 11,4   | 71,0   | 42,4 | 45,6   |  |
| 21,0  | 16,7  | 18,9   | 20,2              | 52,2  | 41,1   | 22,7  | 18,7                 | 15,2   | 51,6   | 36,0   | 74,2   | 2.  | 15,0                           | 13,6  | 16,6              | 40,4 <sup>∩</sup> | 40,8 <sup>∩</sup> | 35,5  | 18,6                 | 15,8  | 13,4   | 61,4   | 38,8 | 68,6   |  |
| 19,7  | 16,2  | 17,9   | 19,4              | 37,5  | 43,2   | 20,2  | 18,7                 | 12,9   | 44,1   | 33,0   | 84,0   | 3.  | 15,8                           | 14,6  | 15,8              | 34,0 <sup>∩</sup> | 36,4              | 42,4  | 18,2                 | 16,6  | 12,2   | 51,4   | 35,2 | 83,0   |  |
| 18,7  | 16,2  | 17,7   | 20,0              | 40,8  | 48,9   | 21,2  | 18,4                 | 13,6   | 41,1   | 45,0   | 78,3   | 4.  | 15,0                           | 14,4  | 15,0              | 35,8 <sup>∩</sup> | 38,0              | 46,0  | 17,8                 | 16,4  | 11,4   | 43,6   | 31,6 | 83,8   |  |
| 18,4  | 16,4  | 17,7   | 20,7              | 32,7  | 53,4   | 23,2  | 18,2                 | 12,2   | 35,7   | 46,2   | 65,0   | 5.  | 15,4                           | 14,4  | 15,8              | 40,2 <sup>∩</sup> | 34,9              | 55,4  | 18,2                 | 16,2  | 11,6   | 38,0   | 55,8 | 73,4   |  |
| 17,7  | 16,4  | 18,2   | 20,5              | 29,7  | 54,0   | 22,5  | 17,9                 | 12,9   | 33,0   | 42,0   | 79,0   | 6.  | 15,8                           | 14,8  | 16,0              | 42,8 <sup>∩</sup> | 28,0              | 55,4  | 20,2                 | 15,6  | 11,8   | 35,8   | 47,2 | 75,0   |  |
| 17,9  | 15,4  | 16,2   | 20,7              | 30,7  | 50,4   | 21,0  | 15,9                 | 13,4   | 32,7   | 38,1   | 122    | 7.  | 15,2                           | 13,6  | 15,2              | 35,5 <sup>∩</sup> | 25,6              | 51,4  | 18,6                 | 14,2  | 12,0   | 36,4   | 40,4 | 118    |  |
| 17,7  | 15,9  | 15,4   | 20,7              | 27,7  | 44,7   | 21,2  | 15,7                 | 13,8   | 30,7   | 38,1   | 133    | 8.  | 17,8                           | 14,4  | 13,2              | 38,0 <sup>∩</sup> | 24,4              | 47,0  | 17,8                 | 13,2  | 11,2   | 32,2   | 35,2 | 136    |  |
| 16,7  | 15,9  | 16,7   | 20,7              | 25,0  | 41,4   | 22,0  | 16,2                 | 13,6   | 30,5   | 53,1   | 127    | 9.  | 13,8                           | 14,6  | 13,4              | 31,6 <sup>∩</sup> | 23,8              | 40,8  | 17,4                 | 14,8  | 11,4   | 29,5   | 46,5 | 142    |  |
| 17,7  | 15,7  | 16,7   | 20,5              | 24,2  | 37,5   | 16,9  | 16,7                 | 13,1   | 29,7   | 40,5   | 108    | 10. | 15,8                           | 14,4  | 13,4              | 27,4 <sup>∩</sup> | 20,5              | 36,1  | 16,0                 | 14,6  | 12,6   | 29,2   | 48,2 | 134    |  |
| 17,9  | 16,2  | 18,7   | 21,0              | 23,5  | 35,0   | 17,4  | 15,4                 | 20,5   | 30,0   | 37,8   | 84,0   | 11. | 15,0                           | 14,4  | 13,8              | 22,3 <sup>∩</sup> | 19,3              | 32,8  | 16,6                 | 13,8  | 12,6   | 28,6   | 38,0 | 112    |  |
| 18,9  | 16,2  | 18,9   | 21,2              | 23,5  | 31,2   | 17,4  | 16,2                 | 34,2   | 28,7   | 39,3   | 74,9   | 12. | 15,6                           | 14,2  | 16,6              | 17,4 <sup>∩</sup> | 19,3              | 28,6  | 15,0                 | 14,0  | 28,0   | 26,8   | 35,2 | 88,0   |  |
| 18,4  | 15,9  | 34,0   | 22,2              | 24,5  | 29,2   | 16,4  | 16,2                 | 61,8   | 28,2   | 45,0   | 67,9   | 13. | 15,0                           | 15,0  | 24,7              | 17,0 <sup>∩</sup> | 20,5              | 29,5  | 16,2                 | 14,0  | 46,0   | 26,8   | 44,4 | 79,8   |  |
| 18,9  | 15,4  | 47,4   | 23,2              | 25,0  | 28,7   | 16,9  | 14,5                 | 86,4   | 27,2   | 41,1   | 61,8   | 14. | 16,8                           | 11,0  | 38,4              | 17,8 <sup>∩</sup> | 21,4              | 26,8  | 16,6                 | 14,2  | 75,8   | 25,9   | 44,4 | 71,8   |  |
| 18,7  | 16,2  | 46,8   | 23,5              | 24,0  | 29,0   | 16,2  | 15,0                 | 77,0   | 31,5   | 40,2   | 57,0   | 15. | 15,6                           | 13,8  | 48,7              | 18,0 <sup>∩</sup> | 19,3              | 28,0  | 16,8                 | 14,6  | 81,4   | 25,3   | 40,4 | 65,4   |  |
| 18,7  | 15,9  | 60,0   | 22,2              | 22,2  | 34,2   | 16,9  | 16,4                 | 65,7   | 36,7   | 36,7   | 53,0   | 16. | 16,0                           | 14,6  | 49,9              | 18,6 <sup>∩</sup> | 18,6              | 29,5  | 16,6                 | 14,2  | 69,4   | 47,0   | 38,0 | 60,6   |  |
| 18,9  | 16,2  | 73,1   | 21,7              | 22,5  | 34,5   | 15,4  | 17,4                 | 57,6   | 33,7   | 36,5   | 49,2   | 17. | 15,4                           | 13,0  | 76,6              | 17,4 <sup>∩</sup> | 19,0              | 32,8  | 16,4                 | 15,4  | 60,6   | 47,0   | 35,5 | 55,8   |  |
| 19,4  | 16,4  | 63,7   | 20,5              | 22,5  | 31,7   | 16,2  | 14,5                 | 57,6   | 32,7   | 38,7   | 46,2   | 18. | 18,4                           | 18,4  | 73,4              | 16,6 <sup>∩</sup> | 19,3              | 30,1  | 14,0                 | 14,6  | 54,6   | 46,5   | 35,8 | 53,0   |  |
| 18,2  | 15,7  | 60,6   | 19,4              | 21,7  | 30,2   | 15,7  | 15,4                 | 88,0   | 31,2   | 37,2   | 43,2   | 19. | 16,4                           | 13,2  | 61,4              | 16,4 <sup>∩</sup> | 18,6              | 26,8  | 14,0                 | 14,4  | 74,2   | 38,8   | 35,5 | 44,4   |  |
| 18,2  | 15,2  | 55,8   | 18,9              | 24,0  | 29,2   | 16,7  | 15,0                 | 88,0   | 30,0   | 36,2   | 51,6   | 20. | 15,8                           | 15,0  | 58,2              | 16,2 <sup>∩</sup> | 19,9              | 25,6  | 14,6                 | 14,2  | 93,0   | 34,9   | 33,4 | 52,6   |  |
| 18,7  | 14,7  | 55,2   | 18,7              | 25,7  | 29,2   | 23,0  | 14,5                 | 85,2   | 28,2   | 37,2   | 46,2   | 21. | 18,2                           | 12,2  | 57,4              | 16,6 <sup>∩</sup> | 22,6              | 27,4  | 20,5                 | 14,6  | 92,5   | 31,6   | 34,3 | 51,8   |  |
| 18,2  | 15,7  | 60,0   | 17,9              | 27,5  | 29,5   | 22,5  | 12,9                 | 65,0   | 28,0   | 37,8   | 42,6   | 22. | 15,0                           | 13,8  | 56,6              | 14,6 <sup>∩</sup> | 22,6              | 26,8  | 20,5                 | 13,0  | 77,0   | 29,8   | 38,8 | 47,7   |  |
| 17,7  | 15,2  | 56,4   | 17,7              | 28,0  | 29,0   | 21,7  | 12,0                 | 52,8   | 49,8   | 36,2   | 42,0   | 23. | 15,0                           | 13,8  | 59,4              | 14,8 <sup>∩</sup> | 23,5              | 27,4  | 18,8                 | 11,2  | 58,2   | 34,0   | 35,5 | 45,2   |  |
| 16,7  | 16,2  | 49,2   | 16,7              | 29,0  | 28,2   | 18,7  | 13,6                 | 46,8   | 104    | 37,2   | 46,2   | 24. | 14,8                           | 13,6  | 51,8              | 15,0 <sup>∩</sup> | 24,1              | 24,4  | 16,6                 | 11,4  | 51,0   | 102    | 35,2 | 45,6   |  |
| 17,7  | 16,2  | 41,1   | 17,4              | 30,0  | 27,0   | 20,2  | 13,8                 | 42,6   | 94,4   | 34,5   | 42,6   | 25. | 15,2                           | 14,0  | 40,4              | 14,2 <sup>∩</sup> | 26,2              | 25,0  | 17,0                 | 13,0  | 45,2   | 120    | 35,2 | 47,7   |  |
| 16,9  | 16,2  | 32,5   | 18,2              | 31,2  | 26,5   | 18,7  | 14,5                 | 49,2   | 71,0   | 34,7   | 43,2   | 26. | 15,4                           | 13,4  | 34,3 <sup>∩</sup> | 14,8 <sup>∩</sup> | 26,8              | 20,5  | 17,0                 | 11,8  | 53,0   | 103    | 32,5 | 46,0   |  |
| 16,9  | 15,9  | 30,7   | 33,2              | 36,2  | 24,7   | 18,4  | 14,2                 | 85,6   | 60,9   | 36,2   | 43,8   | 27. | 15,0                           | 13,6  | 30,4 <sup>∩</sup> | 18,4 <sup>∩</sup> | 31,6              | 22,0  | 16,2                 | 13,6  | 70,2   | 79,8   | 32,5 | 43,6   |  |
| 16,4  | 16,4  | 26,2   | 33,7              | 42,0  | 24,2   | 16,9  | 12,9                 | 92,8   | 51,9   | 42,3   | 49,8   | 28. | 15,2                           | 13,0  | 33,4 <sup>∩</sup> | 35,5 <sup>∩</sup> | 40,4              | 20,8  | 14,6                 | 12,0  | 96,0   | 65,4   | 39,6 | 55,0   |  |
| 17,7  | 21,2  | 26,2   | 38,4              | 25,7  | 17,4   | 13,1  | 80,5                 | 48,0   | 43,5   | 53,4   | 50,4   | 29. | 15,4                           | 15,8  | 31,0 <sup>∩</sup> | 35,8              | 20,8              | 15,8  | 11,8                 | 90,5  | 59,0   | 44,4   | 62,2 |        |  |
| 15,0  | 23,7  | 24,7   | 34,7              | 21,5  | 16,7   | 12,4  | 60,3                 | 46,5   | 41,7   | 50,4   | 50,4   | 30. | 13,0                           | 19,3  | 31,6 <sup>∩</sup> | 32,5              | 22,9              | 14,2  | 11,2                 | 84,2  | 55,4   | 44,0   | 58,2 |        |  |
| 22,7  | 23,7  |        | 33,7              |       | 17,2   |       | 66,5                 | 38,4   |        | 50,4   | 50,4   | 31. |                                | 18,6  | 32,2 <sup>∩</sup> |                   |                   | 30,4  |                      | 14,0  | 75,8   | 48,2   |      | 59,0   |  |
| 545,1   | 514,1 | 1080,5 | 592,2             | 929,3 | 1028,5 | 590,7 | 464,0                | 1507,8 | 1321,6 |  | 2016,7 | Σ   | 468,0                          | 447,1 | 1172,2            | 676,5             | 813,9             | 970,1 | 525,3                | 420,0 | 1508,2 | 1504,3 |      | 2204,8 |  |
| Wi: n 181; 4689,7   |       |        | So: n 184; 7080,3 |       |        |       | Jahr: n 365; 11770,0 |        |        |  | 1179,5 |     | Wi: n 181; 4447,8              |       |                   | So: n 184; 7336,5 |                   |       | Jahr: n 365; 11784,3 |       |        | 1173,9 |      |        |  |

| Hauptzahlen   |      |      |          |                |      |           |      |      |      |      |      |      | Hauptzahlen   |      |      |      |      |           |      |      |      |      |      |      |      |      |      |      |      |
|---|------|------|----------|----------------|------|-----------|------|------|------|------|------|------|---|------|------|------|------|-----------|------|------|------|------|------|------|------|------|------|------|------|
| Nov   | Dez  | Jan  | Febr     | März           | Apr  | Mai       | Juni | Juli | Aug  | Sept | Okt  | Wi   | So  | Jahr | Nov  | Dez  | Jan  | Febr      | März | Apr  | Mai  | Juni | Juli | Aug  | Sept | Okt  | Wi   | So   | Jahr |
| Abflüsse (m <sup>3</sup> /s) 1954   |      |      |          |                |      |           |      |      |      |      |      |      | Abflüsse (m <sup>3</sup> /s) 1954   |      |      |      |      |           |      |      |      |      |      |      |      |      |      |      |      |
| 30.   | 21.  | 8.   | 24.      | 19.            | 30.  | 17.       | 23.  | 5.   | 14.  | 3.   | 23.  |      |   |      | 30.  | 14.  | 8.   | 25.       | 19.  | 26.  | 23.  | 8.   | 15.  | 4.   | 27.  |      |      |      |      |
| 15,0  | 14,7 | 15,4 | 16,7     | 21,7           | 21,5 | 15,4      | 12,0 | 12,2 | 27,2 | 33,0 | 42,0 | 14,7 | 12,0  | 12,0 | 13,0 | 11,0 | 13,2 | 14,2      | 18,6 | 20,5 | 14,0 | 11,2 | 11,2 | 25,3 | 31,6 | 43,6 | 11,0 | 11,2 | 11,0 |
| 18,2  | 16,6 | 34,9 | 21,2     | 30,0           | 34,3 | 19,1      | 15,5 | 48,6 | 42,6 | 39,3 | 65,1 | 25,9 | 38,5  | 32,2 | 15,6 | 14,4 | 34,6 | 24,2      | 26,3 | 32,3 | 16,9 | 14,0 | 48,7 | 48,5 | 39,1 | 71,1 | 24,6 | 39,9 | 32,3 |
| 22,7  | 24,2 | 74,2 | 39,6     | 56,7           | 55,8 | 29,0      | 28,2 | 100  | 114  | 82,9 | 134  | 74,2 | 134   | 134  | 18,2 | 19,3 | 76,6 | 42,8      | 40,8 | 55,4 | 20,5 | 16,6 | 96,0 | 120  | 55,8 | 142  | 76,6 | 142  | 142  |
| 1.  | 29.  | 17.  | 27.      | 2.             | 5.   | 27.       | 6.   | 21.  | 24.  | 4.   | 8.   |      |   |      | 21.  | 30.  | 17.  | 6.        | 2.   | 5,6. |      | 3.   | 28.  | 25.  | 5.   | 9.   |      |      |      |
| 1941/1950   |      |      |          |                |      |           |      |      |      |      |      |      | 1941/1950   |      |      |      |      |           |      |      |      |      |      |      |      |      |      |      |      |
| 11,5  | 15,7 | 16,9 | 20,2     | 21,0           | 30,0 | 20,2      | 17,4 | 14,7 | 9,60 | 9,30 | 8,90 | 11,5 | 18,90   | 8,90 | 13,6 | 19,0 | 18,2 | 22,3      | 22,5 | 31,9 | 20,2 | 19,3 | 16,2 | 11,8 | 11,8 | 13,6 | 11,8 | 11,8 |      |
| 24,8  | 28,6 | 31,2 | 40,0     | 39,4           | 36,0 | 25,8      | 24,1 | 20,3 | 18,7 | 18,1 | 17,6 | 19,8 | 16,6  | 15,5 | 29,3 | 34,6 | 38,2 | 47,2      | 46,2 | 43,4 | 31,3 | 29,7 | 26,1 | 23,8 | 23,0 | 21,9 | 23,5 | 21,1 | 19,9 |
| 45,7  | 55,8 | 64,3 | 97,2     | 81,4           | 56,6 | 35,0      | 31,8 | 28,5 | 27,8 | 23,0 | 28,8 | 65,6 | 29,1  | 47,9 | 51,3 | 63,0 | 74,7 | 107       | 89,4 | 67,8 | 41,9 | 39,3 | 34,3 | 33,7 | 28,2 | 33,6 | 75,2 | 35,2 | 55,1 |
| 103   | 114  | 127  | 274      | 214            | 97,0 | 60,1      | 56,3 | 48,8 | 49,3 | 37,1 | 51,9 | 412  | 87,2  | 412  | 91,5 | 115  | 139  | 298       | 219  | 110  | 65,4 | 63,7 | 53,9 | 53,3 | 39,3 | 51,4 | 430  | 91,3 | 430  |
| 316   | 319  | 372  | 1506     | 1748           | 139  | 122       | 93,2 | 119  | 111  | 106  | 155  | 1506 | 155   | 1506 | 218  | 259  | 368  | 1800      | 1752 | 146  | 121  | 98,1 | 113  | 116  | 98,1 | 161  | 1800 | 161  | 1800 |
| Spenden (l/s km <sup>2</sup> ):   |      |      |          |                |      |           |      |      |      |      |      |      | Spenden (l/s km <sup>2</sup> ):   |      |      |      |      |           |      |      |      |      |      |      |      |      |      |      |      |
| 1954  |      |      |          |                |      | 1941/1950 |      |      |      |      |      | 1954 |   |      |      |      |      | 1941/1950 |      |      |      |      |      |      |      |      |      |      |      |
|   | Wi   | So   | Jahr     |                |      | Wi        | So   | Jahr |      |      |      | Wi   | So  | Jahr |      |      | Wi   | So        | Jahr |      |      |      |      |      |      |      |      |      |      |
| Nq  | 2,76 | 2,25 | 2,25     |                |      | 3,72      | 3,12 | 2,91 |      |      | Nq   | 1,79 | 1,82  | 1,79 |      |      | 3,83 | 3,44      | 3,24 |      |      |      |      |      |      |      |      |      |      |
| Mq  | 4,86 | 7,22 | 6,04     |                |      | 12,3      | 5,46 | 8,99 |      |      | Mq   | 4,01 | 6,50  | 5,26 |      |      | 12,3 | 5,74      | 8,98 |      |      |      |      |      |      |      |      |      |      |
| Hq  | 13,9 | 25,1 | 25,1     |                |      | 77,3      | 16,4 | 77,3 |      |      | Hq   | 12,5 | 23,1  | 23,1 |      |      | 70,1 | 14,9      | 70,1 |      |      |      |      |      |      |      |      |      |      |
| Äußerste Abflüsse (m <sup>3</sup> /s) und Abflußpenden (l/s km <sup>2</sup> ) |      |      |          |                |      |           |      |      |      |      |      |      | Äußerste Abflüsse (m <sup>3</sup> /s) und Abflußpenden (l/s km <sup>2</sup> ) |      |      |      |      |           |      |      |      |      |      |      |      |      |      |      |      |
| 1954  | NQ   | Nq   |          | HQ             | Hq   |           |      |      |      |      |      |      |   |      | 1954 | NQ   | Nq   |           | HQ   | Hq   |      |      |      |      |      |      |      |      |      |
| 1941/1950   | 12,0 | 2,25 | 23. Juni | 134=412 cm a P | 25,1 | 8.        |      |      |      |      |      |      |   |      |      |      |      |           |      |      |      |      |      |      |      |      |      |      |      |

Leine

Pegel: Schwarmstedt

5,85 km oberhalb der Mündung  
 PN = NN + 21,00 m. FN = 6453 km<sup>2</sup>  
 nach mittleren Tageswasserständen [s. S. 38]

| Tag                                 | Nov               | Dez   | Jan               | Febr              | März                 | April  | Mai   | Juni  | Juli   | Aug    | Sept   | Okt    |
|-------------------------------------|-------------------|-------|-------------------|-------------------|----------------------|--------|-------|-------|--------|--------|--------|--------|
| <b>Tageswerte (m<sup>3</sup>/s)</b> |                   |       |                   |                   |                      |        |       |       |        |        |        |        |
| 1.                                  | 20,3              | 17,4  | 21,8              | 32,2 <sup>0</sup> | 32,8 <sup>0</sup>    | 39,3   | 25,2  | 18,8  | 14,0   | 84,6   | 56,0   | 53,1   |
| 2.                                  | 20,3              | 17,9  | 19,6              | 33,4 <sup>0</sup> | 41,1                 | 43,2   | 26,0  | 19,6  | 14,9   | 74,4   | 51,4   | 66,9   |
| 3.                                  | 19,8              | 18,4  | 19,6              | 45,1 <sup>0</sup> | 48,6                 | 48,6   | 24,9  | 20,1  | 15,6   | 62,9   | 47,0   | 91,8   |
| 4.                                  | 19,1              | 18,1  | 19,1              | 45,9 <sup>1</sup> | 42,2                 | 51,4   | 24,1  | 20,1  | 14,4   | 54,3   | 43,6   | 99,0   |
| 5.                                  | 18,8              | 17,4  | 19,3              | 49,4 <sup>1</sup> | 42,5                 | 60,5   | 24,9  | 19,3  | 14,0   | 50,2   | 58,7   | 91,8   |
| 6.                                  | 19,1              | 17,2  | 19,1              | 47,4 <sup>1</sup> | 36,3                 | 64,4   | 26,5  | 19,8  | 14,0   | 45,5   | 59,6   | 89,6   |
| 7.                                  | 18,6              | 16,7  | 19,1              | 49,4 <sup>1</sup> | 33,1                 | 61,5   | 25,2  | 18,6  | 14,2   | 42,9   | 52,2   | 124    |
| 8.                                  | 18,4              | 16,5  | 17,4              | 47,4 <sup>1</sup> | 33,1                 | 56,0   | 24,1  | 16,5  | 14,2   | 41,8   | 46,6   | 145    |
| 9.                                  | 17,4              | 16,9  | 17,2              | 51,4 <sup>1</sup> | 30,4                 | 49,0   | 23,9  | 16,9  | 14,6   | 39,0   | 49,8   | 153    |
| 10.                                 | 17,6              | 16,9  | 18,1              | 53,1 <sup>1</sup> | 27,9                 | 46,3   | 22,8  | 17,9  | 14,6   | 37,6   | 57,8   | 156    |
| 11.                                 | 18,4              | 16,9  | 17,9              | 51,8 <sup>1</sup> | 27,3                 | 42,2   | 21,1  | 18,1  | 14,2   | 36,3   | 48,6   | 148    |
| 12.                                 | 18,6              | 17,4  | 19,8              | 53,5 <sup>1</sup> | 26,8                 | 38,6   | 20,6  | 17,2  | 22,3   | 36,0   | 45,9   | 124    |
| 13.                                 | 18,6              | 17,4  | 25,4              | 53,5 <sup>1</sup> | 26,8                 | 36,0   | 20,6  | 17,6  | 38,6   | 35,0   | 47,4   | 110    |
| 14.                                 | 19,1              | 16,3  | 37,3              | 54,3 <sup>1</sup> | 27,3                 | 33,7   | 19,8  | 16,9  | 67,5   | 33,7   | 52,2   | 100    |
| 15.                                 | 19,8              | 16,0  | 50,2              | 42,2 <sup>1</sup> | 26,5                 | 33,4   | 19,3  | 16,5  | 86,8   | 33,1   | 48,2   | 89,0   |
| 16.                                 | 19,8              | 16,9  | 54,3              | 27,3 <sup>1</sup> | 26,3                 | 35,0   | 18,4  | 16,5  | 80,3   | 46,3   | 46,6   | 79,2   |
| 17.                                 | 20,6              | 16,5  | 71,7              | 24,1 <sup>1</sup> | 25,7                 | 40,0   | 18,8  | 17,4  | 69,5   | 59,6   | 44,4   | 71,7   |
| 18.                                 | 20,8              | 16,7  | 81,3              | 23,6 <sup>1</sup> | 25,7                 | 38,6   | 17,2  | 16,9  | 63,4   | 54,8   | 43,6   | 64,9   |
| 19.                                 | 20,8              | 16,9  | 70,6              | 22,3 <sup>1</sup> | 25,1                 | 35,0   | 18,4  | 16,0  | 73,9   | 50,6   | 45,1   | 58,7   |
| 20.                                 | 19,8              | 16,7  | 65,4              | 21,6 <sup>1</sup> | 25,1                 | 33,1   | 18,1  | 17,2  | 99,6   | 45,9   | 42,9   | 59,1   |
| 21.                                 | 19,8              | 15,3  | 61,0              | 20,8 <sup>1</sup> | 26,8                 | 33,4   | 21,3  | 15,3  | 106    | 41,4   | 42,2   | 63,9   |
| 22.                                 | 19,8              | 16,0  | 61,5              | 21,3 <sup>1</sup> | 27,9                 | 32,8   | 24,9  | 15,8  | 94,0   | 39,9   | 44,7   | 59,1   |
| 23.                                 | 19,1              | 16,9  | 64,9              | 21,3 <sup>1</sup> | 29,6                 | 33,1   | 23,9  | 14,9  | 76,0   | 42,2   | 45,5   | 59,1   |
| 24.                                 | 18,6              | 16,9  | 58,7              | 20,1 <sup>1</sup> | 30,1                 | 31,9   | 22,3  | 14,2  | 62,0   | 92,4   | 45,5   | 57,4   |
| 25.                                 | 18,1              | 17,4  | 49,4              | 21,1 <sup>1</sup> | 31,3                 | 31,3   | 20,6  | 14,9  | 54,8   | 131    | 45,1   | 59,6   |
| 26.                                 | 18,6              | 16,7  | 43,2 <sup>1</sup> | 19,6 <sup>1</sup> | 32,8                 | 29,0   | 21,6  | 14,9  | 50,2   | 129    | 43,2   | 57,4   |
| 27.                                 | 18,6              | 16,7  | 32,8 <sup>1</sup> | 21,6 <sup>1</sup> | 37,3                 | 29,0   | 20,3  | 15,6  | 65,9   | 109    | 42,5   | 56,0   |
| 28.                                 | 18,1              | 16,5  | 29,8 <sup>1</sup> | 34,4 <sup>0</sup> | 44,4                 | 27,9   | 19,6  | 14,6  | 101    | 91,8   | 45,9   | 62,0   |
| 29.                                 | 17,9              | 18,4  | 27,6 <sup>1</sup> |                   | 45,9                 | 27,3   | 18,8  | 14,0  | 105    | 95,1   | 50,6   | 72,2   |
| 30.                                 | 17,4              | 22,3  | 28,7 <sup>1</sup> |                   | 42,2                 | 28,2   | 19,1  | 14,6  | 99,6   | 72,2   | 52,2   | 74,4   |
| 31.                                 |                   | 22,8  | 28,2 <sup>1</sup> |                   | 39,3                 |        | 18,1  |       | 91,2   | 64,9   |        | 73,9   |
| Σ                                   | 571,7             | 537,0 | 1170,0            | 1009,1            | 1189,7               | 1018,2 | 670,4 | 506,7 | 1666,3 | 1872,5 | 1445,0 | 2669,8 |
|                                     | Wi: n 181; 5495,7 |       | So: n 184; 8830,7 |                   | Jahr: n 365; 14326,4 |        |       |       |        |        |        |        |

Hauptzahlen

|                                   | Nov  | Dez  | Jan  | Febr | März | Apr  | Mai  | Juni | Juli | Aug  | Sept | Okt  | Wi   | So   | Jahr |
|-----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| <b>Abflüsse (m<sup>3</sup>/s)</b> |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| <b>1954</b>                       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| am                                | 9.   | 21.  | 9.   | 26.  | 19.  | 29.  | 18.  | 29.  | oft  | 15.  | 21.  | 27.  |      |      |      |
| NQ                                | 17,4 | 15,3 | 17,2 | 19,6 | 25,1 | 27,3 | 17,2 | 14,0 | 14,0 | 33,1 | 42,2 | 56,0 | 15,3 | 14,0 | 14,0 |
| MQ                                | 19,1 | 17,3 | 37,7 | 36,0 | 32,8 | 39,7 | 21,6 | 16,9 | 53,8 | 60,4 | 48,2 | 86,1 | 30,4 | 48,0 | 39,3 |
| HQ                                | 21,6 | 23,3 | 83,5 | 54,3 | 54,3 | 65,4 | 27,3 | 20,8 | 107  | 134  | 62,9 | 157  | 83,5 | 157  | 157  |
| am                                | 17.  | 31.  | 18.  | 14.  | 3.   | 6.   | 6.   | 3.   | 4.   | 21.  | 20.  | 6.   |      |      |      |

19—/19—\*)

|    | Wi   | So   | Jahr | Wi | So | Jahr |
|----|------|------|------|----|----|------|
| NQ | 2,37 | 2,17 | 2,17 |    |    |      |
| MQ | 4,71 | 7,44 | 6,09 |    |    |      |
| HQ | 12,9 | 24,3 | 24,3 |    |    |      |

Spenden (l/s km<sup>2</sup>):

|    | 1954 |      |      | 19—/19—*) |    |      |
|----|------|------|------|-----------|----|------|
|    | Wi   | So   | Jahr | Wi        | So | Jahr |
| Nq | 2,37 | 2,17 | 2,17 |           |    |      |
| Mq | 4,71 | 7,44 | 6,09 |           |    |      |
| Hq | 12,9 | 24,3 | 24,3 |           |    |      |

Äußerste Abflüsse (m<sup>3</sup>/s) und Abflußspenden (l/s km<sup>2</sup>)

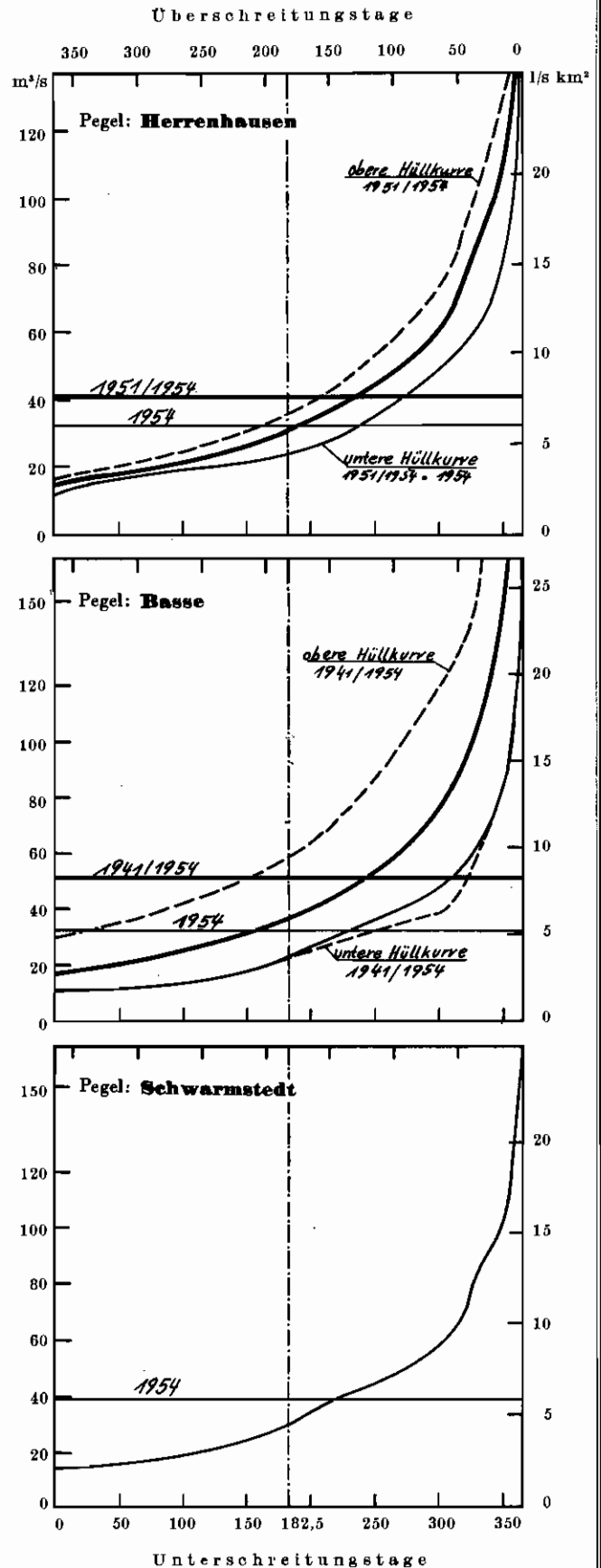
|           | NQ   | Nq   | HQ                 | Hq             |
|-----------|------|------|--------------------|----------------|
| 1954      | 14,0 | 2,17 | 29.6., Julioft     | 157=414 cm a P |
| 1941/50*) |      |      |                    | 24,3           |
|           |      |      |                    | 11. Okt        |
| seit 1954 | NNQ  | NNq  | HHQ                | HHq            |
|           | 14,0 | 2,17 | 29. Juni, Juli oft | 157=414 cm a P |
|           |      |      |                    | 24,3           |
|           |      |      |                    | 11. Okt 1954   |

Eisverhältnisse 1954: Eisbewegung an 1 Tag, Randeis an 1 Tag, Randeis und Eisbewegung an 8 Tagen, Eisstand an 24 Tagen.

\*) Jahresreihe und Grenzwerte können nicht gebracht werden, da neuer Pegel.

Wasser- und Schifffahrtsdirektion Hannover

Dauerlinien und Jahresmittel der Abflüsse und Abflußspenden



| Oder  |                   |                     |                   |                   |                     |       |       |        |        |        |        |     | Sieber   |       |       |       |       |        |       |       |        |       |       |        |  |
|---|-------------------|---------------------|-------------------|-------------------|---------------------|-------|-------|--------|--------|--------|--------|-----|--|-------|-------|-------|-------|--------|-------|-------|--------|-------|-------|--------|--|
| Pegel: Scharzfeld   |                   |                     |                   |                   |                     |       |       |        |        |        |        |     | Pegel: Hattorf   |       |       |       |       |        |       |       |        |       |       |        |  |
| 21,0 km oberhalb der Mündung<br>PN = NN + 228,94 m. F <sub>N</sub> = 153,2 km <sup>2</sup><br>nach mittleren Tageswasserständen |                   |                     |                   |                   |                     |       |       |        |        |        |        |     | 1,2 km oberhalb der Mündung<br>PN = NN + 180,63 m. F <sub>N</sub> = 127,1 km <sup>2</sup><br>nach mittleren Tageswasserständen |       |       |       |       |        |       |       |        |       |       |        |  |
| Nov   | Dez               | Jan                 | Febr              | März              | April               | Mai   | Juni  | Juli   | Aug    | Sept   | Okt    | Tag | Nov  | Dez   | Jan   | Febr  | März  | April  | Mai   | Juni  | Juli   | Aug   | Sept  | Okt    |  |
| <b>Tageswerte (m<sup>3</sup>/s) *</b>   |                   |                     |                   |                   |                     |       |       |        |        |        |        |     | <b>Tageswerte (m<sup>3</sup>/s) *</b>  |       |       |       |       |        |       |       |        |       |       |        |  |
| 2,00  | 2,00              | 2,00                | 2,00              | 1,55              | 3,40                | 1,85  | 1,70  | 1,70   | 3,40   | 4,00   | 6,92   | 1.  | 0,50   | 0,70  | 1,54  | 1,68  | 0,60  | 5,90   | 1,40  | 0,70  | 0,40   | 4,70  | 1,96  | 11,0   |  |
| 1,85  | 2,00              | 1,85                | 2,00              | 1,40              | 3,60                | 1,85  | 1,70  | 1,70   | 3,60   | 4,00   | 5,56   | 2.  | 0,70   | 0,60  | 1,27  | 1,54  | 0,70  | 5,15   | 1,40  | 0,80  | 0,40   | 3,42  | 1,68  | 10,1   |  |
| 2,00  | 1,85              | 1,85                | 2,00              | 1,55              | 3,80                | 2,15  | 1,85  | 1,70   | 3,80   | 4,20   | 4,84   | 3.  | 0,70   | 0,60  | 1,14  | 1,54  | 0,70  | 6,90   | 1,68  | 0,80  | 0,40   | 2,88  | 2,10  | 7,15   |  |
| 2,00  | 1,70              | 1,85                | 2,00              | 2,00              | 4,20                | 2,15  | 1,70  | 1,55   | 3,80   | 4,00   | 6,08   | 4.  | 0,60   | 0,60  | 1,14  | 1,54  | 0,90  | 10,4   | 1,68  | 0,80  | 0,40   | 2,40  | 2,10  | 5,15   |  |
| 2,00  | 1,70              | 1,85                | 2,00              | 2,00              | 4,40                | 2,15  | 1,70  | 1,55   | 3,60   | 3,60   | 5,80   | 5.  | 0,50   | 0,60  | 0,90  | 1,40  | 0,90  | 9,20   | 1,68  | 0,70  | 0,32   | 1,82  | 1,68  | 4,50   |  |
| 2,00  | 1,70              | 1,85                | 1,85              | 1,85              | 4,40                | 2,00  | 1,55  | 1,85   | 3,20   | 3,40   | 5,56   | 6.  | 0,50   | 0,50  | 0,70  | 1,40  | 0,90  | 6,40   | 1,40  | 0,60  | 0,32   | 1,68  | 1,40  | 10,1   |  |
| 2,00  | 1,70              | 1,85                | 1,85              | 1,55              | 4,20                | 2,00  | 1,55  | 1,70   | 3,00   | 3,60   | 5,32   | 7.  | 0,50   | 0,50  | 0,80  | 1,27  | 0,90  | 4,70   | 1,40  | 0,60  | 0,50   | 1,40  | 1,40  | 12,5   |  |
| 2,00  | 1,70              | 1,85                | 1,85              | 1,70              | 3,60                | 2,00  | 1,70  | 1,70   | 2,64   | 3,80   | 5,80   | 8.  | 0,50   | 0,60  | 0,80  | 1,02  | 1,02  | 3,96   | 1,27  | 0,60  | 0,40   | 1,40  | 1,40  | 8,00   |  |
| 2,00  | 1,70              | 1,85                | 1,85              | 1,85              | 3,40                | 0,72  | 1,70  | 1,55   | 3,00   | 3,80   | 5,80   | 9.  | 0,50   | 0,60  | 0,80  | 0,90  | 1,14  | 3,42   | 1,14  | 0,60  | 0,40   | 1,68  | 1,27  | 5,65   |  |
| 2,00  | 1,85              | 1,70                | 1,85              | 1,85              | 3,40                | 0,40  | 1,70  | 1,70   | 3,20   | 3,80   | 4,84   | 10. | 0,50   | 0,60  | 0,80  | 0,90  | 1,27  | 3,06   | 1,14  | 0,60  | 0,40   | 1,54  | 1,40  | 4,32   |  |
| 2,00  | 1,85              | 1,55                | 1,85              | 2,15              | 2,82                | 0,30  | 1,70  | 1,85   | 3,40   | 4,00   | 4,60   | 11. | 0,50   | 0,60  | 0,70  | 0,80  | 1,54  | 2,72   | 1,14  | 0,60  | 0,70   | 1,40  | 1,40  | 3,60   |  |
| 2,00  | 1,85              | 1,70                | 1,70              | 2,30              | 2,46                | 0,30  | 1,70  | 3,80   | 3,60   | 4,00   | 4,60   | 12. | 0,50   | 0,60  | 1,68  | 0,80  | 1,68  | 2,25   | 1,14  | 0,60  | 8,60   | 1,40  | 2,10  | 3,24   |  |
| 2,00  | 1,85              | 2,00                | 1,70              | 2,30              | 2,15                | 0,40  | 1,70  | 5,08   | 3,60   | 3,80   | 4,60   | 13. | 0,50   | 0,50  | 2,88  | 0,70  | 1,68  | 2,10   | 1,14  | 0,60  | 14,0   | 1,27  | 1,96  | 2,88   |  |
| 2,15  | 1,70              | 2,00                | 1,70              | 2,30              | 2,15                | 0,50  | 1,70  | 4,84   | 3,60   | 3,80   | 4,40   | 14. | 0,60   | 0,50  | 2,56  | 0,70  | 1,54  | 2,10   | 1,02  | 0,70  | 10,7   | 1,27  | 1,68  | 2,56   |  |
| 2,30  | 1,55              | 2,15                | 1,70              | 2,00              | 2,30                | 0,50  | 1,70  | 5,32   | 3,40   | 4,00   | 4,40   | 15. | 0,70   | 0,50  | 2,56  | 0,60  | 1,54  | 3,60   | 0,90  | 0,60  | 10,1   | 1,68  | 1,68  | 2,25   |  |
| 2,15  | 1,55              | 3,00                | 1,70              | 2,15              | 1,70                | 0,40  | 1,70  | 4,40   | 3,20   | 4,20   | 4,20   | 16. | 1,54   | 0,50  | 6,15  | 0,60  | 1,54  | 3,24   | 0,70  | 0,50  | 7,15   | 2,25  | 1,54  | 2,10   |  |
| 2,00  | 1,55              | 4,40                | 1,70              | 2,30              | 1,70                | 0,50  | 1,55  | 4,00   | 3,40   | 4,20   | 3,60   | 17. | 1,27   | 0,50  | 5,15  | 0,60  | 1,68  | 3,06   | 0,50  | 0,40  | 6,65   | 1,68  | 2,72  | 1,96   |  |
| 1,85  | 1,55              | 4,20                | 1,55              | 2,46              | 1,55                | 0,30  | 1,70  | 4,40   | 3,40   | 4,20   | 3,60   | 18. | 0,90   | 0,50  | 4,50  | 0,60  | 1,82  | 2,88   | 0,60  | 0,32  | 12,8   | 1,40  | 2,10  | 1,68   |  |
| 1,85  | 1,55              | 4,00                | 1,55              | 2,30              | 1,70                | 1,40  | 1,70  | 8,40   | 3,40   | 4,00   | 3,80   | 19. | 0,90   | 0,50  | 4,14  | 0,60  | 2,10  | 2,72   | 0,60  | 0,40  | 19,6   | 1,27  | 2,10  | 1,54   |  |
| 1,70  | 1,55              | 4,00                | 1,55              | 2,46              | 2,15                | 2,00  | 1,55  | 8,10   | 3,40   | 3,80   | 4,00   | 20. | 0,90   | 0,40  | 4,32  | 0,60  | 2,40  | 2,72   | 1,02  | 0,40  | 14,3   | 1,27  | 2,88  | 1,68   |  |
| 1,70  | 1,55              | 4,20                | 1,40              | 2,30              | 2,64                | 2,00  | 1,55  | 5,32   | 3,60   | 4,00   | 4,00   | 21. | 0,90   | 0,32  | 7,15  | 0,60  | 3,06  | 2,72   | 1,96  | 0,32  | 7,70   | 1,14  | 2,72  | 1,68   |  |
| 1,70  | 1,70              | 4,40                | 1,40              | 2,64              | 2,64                | 1,85  | 1,70  | 4,20   | 3,80   | 4,20   | 3,80   | 22. | 0,80   | 0,40  | 5,65  | 0,60  | 4,14  | 2,88   | 1,27  | 0,32  | 4,90   | 1,40  | 2,88  | 1,54   |  |
| 1,55  | 2,15              | 4,20                | 1,25              | 2,82              | 2,46                | 1,70  | 1,70  | 3,60   | 5,32   | 4,20   | 3,80   | 23. | 0,80   | 0,40  | 4,50  | 0,70  | 4,90  | 2,72   | 0,90  | 0,32  | 3,96   | 8,60  | 3,06  | 2,56   |  |
| 1,55  | 1,85              | 4,00                | 1,25              | 2,82              | 2,46                | 1,70  | 1,70  | 3,40   | 5,32   | 4,20   | 3,80   | 24. | 0,80   | 0,50  | 3,78  | 0,70  | 5,15  | 2,25   | 0,80  | 0,32  | 3,60   | 6,90  | 2,88  | 2,10   |  |
| 1,55  | 0,84              | 3,00                | 1,40              | 3,00              | 2,15                | 1,70  | 1,70  | 3,20   | 5,32   | 4,20   | 4,20   | 25. | 0,80   | 0,40  | 2,88  | 0,70  | 4,90  | 2,10   | 0,80  | 0,32  | 3,78   | 4,90  | 2,72  | 2,40   |  |
| 1,70  | 0,72              | 2,46                | 2,00              | 3,00              | 2,15                | 1,70  | 1,85  | 5,08   | 5,08   | 4,20   | 4,20   | 26. | 0,70   | 0,40  | 2,25  | 1,27  | 5,65  | 1,96   | 0,70  | 0,32  | 11,3   | 3,96  | 2,72  | 2,40   |  |
| 1,70  | 1,25              | 2,15                | 2,00              | 3,20              | 1,85                | 1,55  | 1,70  | 6,92   | 4,40   | 4,40   | 4,20   | 27. | 0,70   | 0,90  | 1,96  | 0,80  | 7,15  | 1,82   | 0,50  | 0,32  | 12,8   | 3,06  | 3,60  | 2,40   |  |
| 1,70  | 1,85              | 2,15                | 1,55              | 3,20              | 1,85                | 1,55  | 1,70  | 5,80   | 4,60   | 4,40   | 4,20   | 28. | 0,70   | 1,54  | 1,82  | 0,60  | 5,40  | 1,68   | 0,40  | 0,18  | 8,60   | 2,72  | 3,24  | 3,06   |  |
| 1,70  | 2,00              | 2,00                | 3,40              | 1,70              | 1,55                | 1,70  | 5,08  | 4,60   | 4,60   | 4,40   | 4,40   | 29. | 0,70   | 1,82  | 1,68  | 4,50  | 1,54  | 0,60   | 0,40  | 6,65  | 2,40   | 3,06  | 2,72  |        |  |
| 1,85  | 2,15              | 2,00                | 3,40              | 1,85              | 1,40                | 1,55  | 4,40  | 4,00   | 5,08   | 5,08   | 4,40   | 30. | 0,70   | 1,82  | 1,68  | 4,32  | 1,54  | 0,70   | 0,40  | 6,40  | 2,10   | 3,42  | 2,72  |        |  |
| 2,00  | 2,00              | 3,40                | 1,55              | 4,00              | 4,20                | 4,20  | 4,60  | 4,60   | 3,1    | 1,68   | 1,68   | 31. | 1,68   | 1,68  | 4,90  | 0,70  | 5,65  | 2,10   | 2,88  |       |        |       |       |        |  |
| 56,55   | 52,51             | 80,06               | 48,20             | 73,20             | 80,83               | 42,12 | 50,40 | 117,89 | 117,88 | 121,48 | 143,92 | Σ   | 21,41  | 21,18 | 79,56 | 25,76 | 80,62 | 107,69 | 32,28 | 15,14 | 183,81 | 77,09 | 66,85 | 128,42 |  |
| Wi: n 181; 391,35   | So: n 184; 593,69 | Jahr: n 365; 985,04 | Wi: n 181; 336,22 | So: n 184; 503,66 | Jahr: n 365; 839,88 |       |       |        |        |        |        |     |  |       |       |       |       |        |       |       |        |       |       |        |  |

Hauptzahlen

Hauptzahlen

| Nov                                    | Dez  | Jan  | Febr | März | Apr  | Mai  | Juni | Juli | Aug  | Sept | Okt  | Wi   | So   | Jahr |
|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| <b>Abflüsse (m<sup>3</sup>/s) 1954</b> |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| oft                                    | 26.  | 11.  | 23.  | 2.   | 18.  | oft  | oft  | oft  | 8.   | 6.   | 17.  |      |      |      |
| 1,55                                   | 0,72 | 1,55 | 1,25 | 1,40 | 1,55 | 0,30 | 1,55 | 1,55 | 2,64 | 3,40 | 3,60 | 0,72 | 0,30 | 0,30 |
| 1,89                                   | 1,69 | 2,58 | 1,72 | 2,36 | 2,69 | 1,36 | 1,68 | 3,80 | 3,80 | 4,05 | 4,64 | 2,16 | 3,23 | 2,70 |
| 2,30                                   | 2,64 | 4,60 | 2,30 | 3,40 | 4,40 | 2,15 | 1,85 | 10,4 | 5,80 | 6,92 | 8,40 | 4,60 | 10,4 | 10,4 |
| 15.                                    | 30.  | 17.  | 26.  | oft  | 6,7. | 3.   | 26.  | 19.  | 23.  | 30.  | 1.   |      |      |      |

| Nov                                    | Dez  | Jan  | Febr | März | Apr  | Mai  | Juni | Juli | Aug  | Sept | Okt  | Wi   | So   | Jahr |
|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| <b>Abflüsse (m<sup>3</sup>/s) 1954</b> |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| am                                     | oft  | 21.  | 6.   | oft  | 1.   | 29.  | 28.  | 28.  | 5,6. | 21.  | 9.   | 19.  |      |      |
| NQ                                     | 0,50 | 0,32 | 0,70 | 0,60 | 0,60 | 1,54 | 0,40 | 0,18 | 0,32 | 1,14 | 1,27 | 1,54 | 0,32 | 0,18 |
| MQ                                     | 0,71 | 0,68 | 2,57 | 0,92 | 2,60 | 3,59 | 1,04 | 0,50 | 5,93 | 2,49 | 2,23 | 4,14 | 1,86 | 2,74 |
| HQ                                     | 1,54 | 1,82 | 7,40 | 1,54 | 8,60 | 11,3 | 2,40 | 0,80 | 26,5 | 11,9 | 5,15 | 16,0 | 11,3 | 26,5 |
| am                                     | 16.  | 29.  | 30.  | 21.  | 26.  | 27.  | 5.   | 21.  | oft  | 19.  | 23.  | 30.  | 6.   |      |

19-19-\*\*)

19-19-\*\*)

NQ  
MNQ  
MQ  
MHQ  
HQ  
HQ  
HQ

Spenden (l/s km<sup>2</sup>):

Spenden (l/s km<sup>2</sup>):

| 19- |    |    | 19-19- |    |    |      |
|-----|----|----|--------|----|----|------|
|     | Wi | So | Jahr   | Wi | So | Jahr |
| Nq  |    |    |        |    |    | MNq  |
| Mq  |    |    |        |    |    | Mq   |
| Hq  |    |    |        |    |    | MHq  |

| 19- |    |    | 19-19- |    |    |      |
|-----|----|----|--------|----|----|------|
|     | Wi | So | Jahr   | Wi | So | Jahr |
| Nq  |    |    |        |    |    | MNq  |
| Mq  |    |    |        |    |    | Mq   |
| Hq  |    |    |        |    |    | MHq  |

Äußerste Abflüsse (m<sup>3</sup>/s) und Abflußspenden (l/s km<sup>2</sup>)

Äußerste Abflüsse (m<sup>3</sup>/s) und Abflußspenden (l/s km<sup>2</sup>)

|           | NQ   | Nq              | HQ   | Hq            |
|-----------|------|-----------------|------|---------------|
| 1954      | 0,30 |                 | 10,4 |               |
| 1941/50*) |      | Mai oft         |      | 19. Juli      |
| seit 1950 | NNQ  | NNq             | HHQ  | HHq           |
|           | 0,22 |                 | 17,0 |               |
|           |      | 8., 9. Mai 1953 |      | 11. Febr 1950 |

|            | NQ   | Nq  | HQ          | Hq            |
|------------|------|-----|-------------|---------------|
| 1954       | 0,18 |     | 28. Juni    | 26,5          |
| 1941/50**) |      |     |             | 19. Juli      |
| seit 1950  | NNQ  | NNq | HHQ         | HHq           |
|            | 0,04 |     | 7. Nov 1950 | 26,5          |
|            |      |     |             | 19. Juli 1954 |

Eisverhältnisse 1954: Grundeis an 26 Tagen.

Eisverhältnisse 1954: Randeis an 10 Tagen, Grundeis an 7 Tagen.

\*) Nach Abflußkurve 1954.

\*) Nach Abflußkurve 1954.

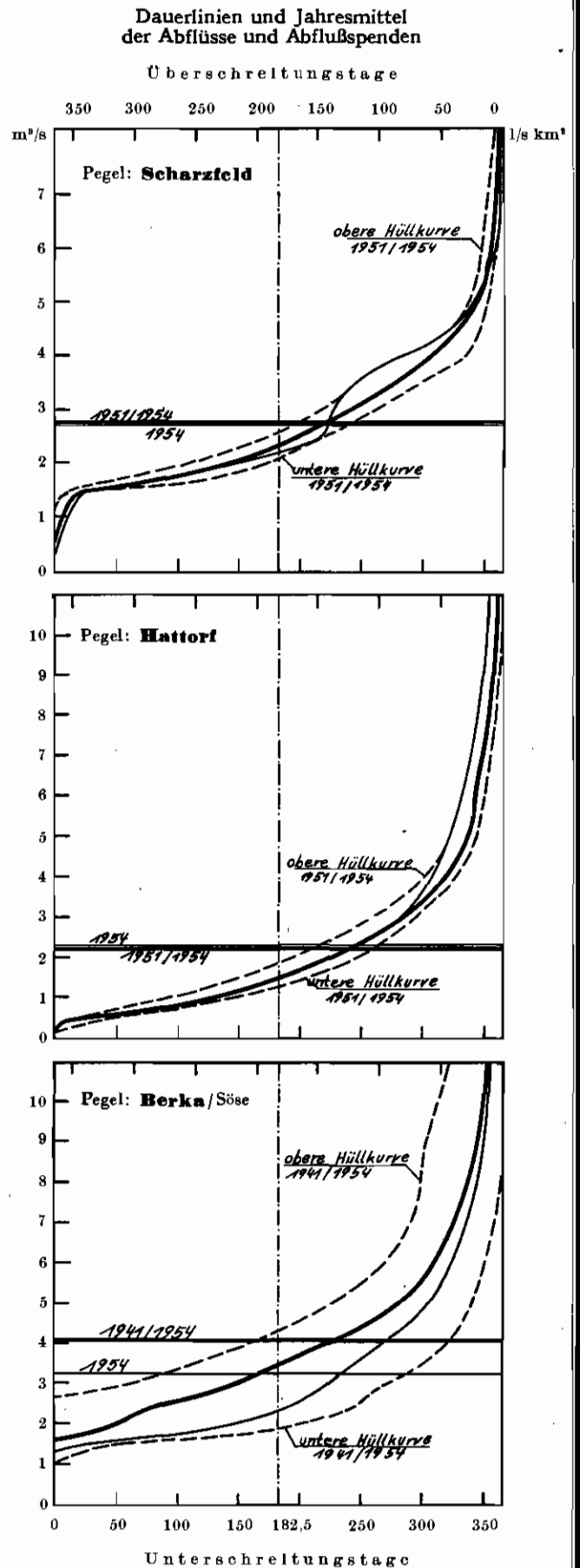
\*\*) Jahresreihe und Grenzwerte können nicht gebracht werden, da neue Abflußkurve.

\*\*) Jahresreihe und Grenzwerte können nicht gebracht werden, Hauptzahlen liegen seit 1950 vor.

Harzwasserwerke

Harzwasserwerke

| Söse   |                   | Pegel: Berka |        |                   |       |       |                      |       |        |        |        |        |
|--|-------------------|--------------|--------|-------------------|-------|-------|----------------------|-------|--------|--------|--------|--------|
| 1,5 km oberhalb der Mündung<br>PN = NN + 132,25 m. FN = 211,3 km <sup>2</sup><br>nach mittleren Tageswasserständen |                   |              |        |                   |       |       |                      |       |        |        |        |        |
| Tag  | Nov               | Dez          | Jan    | Febr              | März  | April | Mai                  | Juni  | Juli   | Aug    | Sept   | Okt    |
| <b>Tageswerte (m<sup>3</sup>/s)*</b>   |                   |              |        |                   |       |       |                      |       |        |        |        |        |
| 1.   | 1,72              | 1,66         | 1,84   | 1,90              | 2,02  | 3,60  | 2,08                 | 1,96  | 1,72   | 4,54   | 4,54   | 8,90   |
| 2.   | 1,78              | 1,66         | 1,66   | 2,16              | 1,84  | 3,60  | 1,72                 | 1,90  | 1,78   | 4,00   | 4,00   | 10,5   |
| 3.   | 2,08              | 1,72         | 1,66   | 2,08              | 2,32  | 4,10  | 1,96                 | 1,96  | 1,72   | 4,42   | 5,86   | 8,90   |
| 4.   | 2,02              | 1,66         | 1,78   | 2,16              | 2,40  | 4,30  | 2,48                 | 2,02  | 1,54   | 4,10   | 5,14   | 7,26   |
| 5.   | 1,96              | 1,60         | 1,72   | 2,16              | 2,32  | 4,54  | 2,32                 | 1,90  | 1,36   | 3,80   | 3,90   | 7,12   |
| 6.   | 1,90              | 1,42         | 1,60   | 2,16              | 2,24  | 4,78  | 2,48                 | 1,66  | 1,66   | 3,40   | 3,80   | 12,8   |
| 7.   | 1,84              | 1,42         | 1,60   | 1,72              | 1,96  | 4,30  | 2,24                 | 1,48  | 1,78   | 3,30   | 4,42   | 15,6   |
| 8.   | 1,66              | 1,60         | 1,66   | 1,84              | 1,96  | 4,10  | 2,16                 | 1,60  | 1,60   | 2,56   | 4,20   | 12,0   |
| 9.   | 1,54              | 1,72         | 1,66   | 1,90              | 2,24  | 3,70  | 1,96                 | 1,78  | 1,66   | 2,64   | 3,80   | 9,38   |
| 10.  | 1,72              | 1,66         | 1,54   | 1,90              | 2,24  | 3,30  | 1,72                 | 1,78  | 1,66   | 3,40   | 4,00   | 7,68   |
| 11.  | 1,72              | 1,60         | 1,60   | 1,96              | 2,16  | 2,64  | 1,96                 | 1,78  | 2,08   | 3,10   | 3,90   | 6,18   |
| 12.  | 1,84              | 1,54         | 2,56   | 1,96              | 2,16  | 2,40  | 1,96                 | 1,84  | 7,12   | 3,10   | 3,80   | 6,70   |
| 13.  | 1,96              | 1,42         | 3,80   | 2,02              | 2,16  | 2,72  | 1,96                 | 1,66  | 14,8   | 3,10   | 3,70   | 6,34   |
| 14.  | 2,02              | 1,42         | 3,80   | 1,84              | 1,96  | 2,64  | 2,02                 | 1,54  | 12,2   | 3,30   | 4,42   | 6,22   |
| 15.  | 1,72              | 1,54         | 3,80   | 1,84              | 1,90  | 3,30  | 1,96                 | 1,72  | 10,0   | 2,72   | 4,42   | 5,98   |
| 16.  | 1,90              | 1,48         | 8,58   | 1,96              | 2,08  | 2,90  | 1,72                 | 1,72  | 7,68   | 2,90   | 4,54   | 5,62   |
| 17.  | 1,96              | 1,42         | 6,84   | 1,96              | 2,08  | 2,32  | 1,72                 | 1,60  | 6,46   | 3,50   | 5,14   | 4,00   |
| 18.  | 1,72              | 1,42         | 5,74   | 1,90              | 2,02  | 2,08  | 1,96                 | 1,54  | 6,18   | 3,40   | 4,66   | 3,40   |
| 19.  | 1,72              | 1,42         | 5,26   | 1,96              | 2,08  | 2,08  | 1,84                 | 1,78  | 9,70   | 3,30   | 3,90   | 4,66   |
| 20.  | 1,84              | 1,36         | 5,14   | 1,90              | 2,16  | 2,48  | 2,02                 | 1,60  | 10,0   | 3,00   | 4,30   | 4,66   |
| 21.  | 1,78              | 1,42         | 6,18   | 1,60              | 2,32  | 3,00  | 2,32                 | 1,48  | 7,40   | 3,00   | 4,78   | 4,54   |
| 22.  | 1,66              | 1,42         | 6,22   | 1,54              | 2,48  | 2,90  | 2,24                 | 1,72  | 5,98   | 2,40   | 5,02   | 4,54   |
| 23.  | 1,66              | 1,48         | 4,90   | 1,84              | 2,64  | 3,10  | 1,96                 | 1,72  | 5,14   | 9,22   | 4,90   | 4,66   |
| 24.  | 1,78              | 1,54         | 3,60   | 1,78              | 2,80  | 2,90  | 1,90                 | 1,60  | 4,78   | 9,38   | 4,66   | 3,00   |
| 25.  | 1,78              | 1,42         | 3,00   | 1,90              | 2,90  | 2,40  | 2,02                 | 1,48  | 3,90   | 7,40   | 4,54   | 3,70   |
| 26.  | 1,84              | 1,36         | 2,80   | 2,64              | 3,20  | 2,08  | 2,02                 | 1,42  | 8,10   | 5,98   | 4,00   | 4,66   |
| 27.  | 1,84              | 1,60         | 2,64   | 2,02              | 3,90  | 2,64  | 1,78                 | 1,42  | 10,2   | 5,38   | 4,30   | 4,90   |
| 28.  | 1,78              | 1,90         | 2,80   | 2,02              | 3,20  | 2,64  | 1,72                 | 1,42  | 8,26   | 4,90   | 4,78   | 5,38   |
| 29.  | 1,60              | 2,02         | 2,56   |                   | 2,80  | 2,64  | 1,90                 | 1,78  | 6,84   | 4,78   | 4,78   | 5,14   |
| 30.  | 1,60              | 1,96         | 2,24   |                   | 3,20  | 2,56  | 1,66                 | 1,72  | 6,34   | 4,54   | 4,90   | 5,26   |
| 31.  |                   | 1,90         | 1,90   |                   | 3,40  |       | 1,66                 |       | 5,62   | 4,90   |        | 3,80   |
| Σ  | 53,94             | 48,76        | 102,68 | 54,62             | 75,14 | 92,74 | 61,42                | 50,58 | 175,26 | 129,46 | 133,10 | 203,48 |
|  | Wi: n 181; 427,88 |              |        | So: n 184; 753,30 |       |       | Jahr: n 365; 1181,18 |       |        |        |        |        |



**Hauptzahlen**

|                                   | Nov  | Dez      | Jan  | Febr | März | Apr  | Mai      | Juni | Juli | Aug  | Sept | Okt  | Wi   | So   | Jahr |
|-----------------------------------|------|----------|------|------|------|------|----------|------|------|------|------|------|------|------|------|
| <b>Abflüsse (m<sup>3</sup>/s)</b> |      |          |      |      |      |      |          |      |      |      |      |      |      |      |      |
| <b>1954</b>                       |      |          |      |      |      |      |          |      |      |      |      |      |      |      |      |
| am                                | 9.   | 20., 26. | 10.  | 22.  | 2.   | oft  | 30., 31. | oft  | 5.   | 22.  | 13.  | 24.  |      |      |      |
| NQ                                | 1,54 | 1,36     | 1,54 | 1,54 | 1,84 | 2,08 | 1,66     | 1,42 | 1,36 | 2,40 | 3,70 | 3,00 | 1,36 | 1,36 | 1,36 |
| MQ                                | 1,80 | 1,57     | 3,31 | 1,95 | 2,42 | 3,09 | 1,98     | 1,69 | 5,65 | 4,18 | 4,44 | 6,56 | 2,36 | 4,09 | 3,24 |
| HQ                                | 2,90 | 2,02     | 10,0 | 2,64 | 4,30 | 5,86 | 2,90     | 2,02 | 17,2 | 11,0 | 10,4 | 17,2 | 10,0 | 17,2 | 17,2 |
| am                                | 2.   | 29.      | 16.  | 26.  | 27.  | 5.   | 4.       | 4.   | 13.  | 23.  | 3.   | 7.   |      |      |      |
| <b>1941/1950</b>                  |      |          |      |      |      |      |          |      |      |      |      |      |      |      |      |
| NQ                                | 105  | 129      | 160  | 160  | 100  | 210  | 134      | 134  | 142  | 126  | 126  | 105  | 100  | 105  | 100  |
| MNQ                               | 242  | 250      | 313  | 362  | 320  | 298  | 242      | 231  | 230  | 209  | 208  | 216  | 198  | 191  | 172  |
| MQ                                | 443  | 483      | 537  | 694  | 543  | 501  | 324      | 329  | 320  | 332  | 295  | 333  | 533  | 322  | 427  |
| MHQ                               | 100  | 113      | 117  | 150  | 123  | 917  | 616      | 682  | 666  | 755  | 525  | 615  | 230  | 117  | 236  |
| HQ                                | 238  | 316      | 282  | 440  | 391  | 188  | 125      | 111  | 127  | 202  | 181  | 165  | 440  | 202  | 440  |

**Spenden (l/s km<sup>2</sup>):**

|    | 19— |    |      | 19—/19— |    |      |
|----|-----|----|------|---------|----|------|
|    | Wi  | So | Jahr | Wi      | So | Jahr |
| Nq |     |    |      |         |    |      |
| Mq |     |    |      |         |    |      |
| Hq |     |    |      |         |    |      |

**Äußerste Abflüsse (m<sup>3</sup>/s) und Abflußpenden (l/s km<sup>2</sup>)**

|           | NQ   | Nq                 | HQ   | Hq             |
|-----------|------|--------------------|------|----------------|
| 1954      | 1,36 | 20., 26. 12. 5. 7. | 17,2 | 13. 7., 7. 10. |
| 1941/1950 | 1,00 | 7. März 1947       | 44,0 | 9. 2. 1946     |
| seit 1938 | 1,00 | 7. März 1947       | 44,0 | 9. Febr 1946   |

Eisverhältnisse 1954: kein Eis.

\*) Nach Abflußkurve 1954.

Harzwasserwerke

| Innerste<br>78,0 km oberhalb der Mündung<br>PN = NN + 228,15 m. FN = 95,8 km <sup>2</sup><br>nach mittleren Tageswasserständen |      |       |       |       |       |       |      |        |       | Pegel: Lindthal |       |                                  |       |       |       |       |       |       |       | Innerste<br>56 km oberhalb der Mündung<br>PN = NN + 144,38 m n. S. FN = 212 km <sup>2</sup><br>nach mittleren Tageswasserständen |        |       |        |                     |  |  |  |  |  |  |  |  |  |  |  |
|--|------|-------|-------|-------|-------|-------|------|--------|-------|-----------------|-------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|--|--------|-------|--------|---------------------|--|--|--|--|--|--|--|--|--|--|--|
| Nov  | Dez  | Jan   | Febr  | März  | April | Mai   | Juni | Juli   | Aug   | Sept            | Okt   | Tag                              | Nov   | Dez   | Jan   | Febr  | März  | April | Mai   | Juni   | Juli   | Aug   | Sept   | Okt                 |  |  |  |  |  |  |  |  |  |  |  |
| Tageswerte (m <sup>3</sup> /s) *   |      |       |       |       |       |       |      |        |       |                 |       | Tageswerte (m <sup>3</sup> /s) * |       |       |       |       |       |       |       |  |        |       |        |                     |  |  |  |  |  |  |  |  |  |  |  |
| 0,31   | 0,25 | 0,39  | 0,44  | 0,53  | 1,80  | 0,54  | 0,39 | 0,28   | 3,24  | 2,05            | 6,42  | 1.                               | 0,57  | 0,45  | 0,49  | 2,87  | 1,42  | 2,58  | 1,12  | 0,77   | 0,77   | 4,66  | 3,03   | 7,90                |  |  |  |  |  |  |  |  |  |  |  |
| 0,31   | 0,25 | 0,39  | 0,44  | 0,39  | 1,87  | 0,54  | 0,43 | 0,28   | 2,58  | 1,70            | 7,30  | 2.                               | 0,53  | 0,45  | 0,30  | 5,26  | 0,97  | 2,72  | 1,02  | 0,77   | 0,77   | 3,61  | 2,58   | 9,60                |  |  |  |  |  |  |  |  |  |  |  |
| 0,28   | 0,22 | 0,35  | 0,44  | 0,48  | 2,47  | 0,59  | 0,43 | 0,28   | 1,91  | 3,34            | 5,54  | 3.                               | 0,49  | 0,41  | 0,30  | 8,25  | 1,02  | 2,95  | 1,12  | 0,87   | 0,77   | 2,87  | 4,18   | 8,40                |  |  |  |  |  |  |  |  |  |  |  |
| 0,22   | 0,22 | 0,35  | 0,44  | 0,63  | 3,21  | 0,74  | 0,35 | 0,19   | 1,45  | 3,06            | 3,86  | 4.                               | 0,45  | 0,45  | 0,27  | 7,80  | 1,27  | 3,52  | 1,27  | 0,65   | 0,69   | 2,30  | 5,14   | 6,75                |  |  |  |  |  |  |  |  |  |  |  |
| 0,25   | 0,19 | 0,31  | 0,44  | 0,58  | 3,90  | 0,59  | 0,35 | 0,25   | 1,21  | 2,58            | 3,14  | 5.                               | 0,45  | 0,45  | 0,41  | 8,10  | 1,22  | 4,66  | 1,07  | 0,65   | 0,69   | 1,87  | 4,54   | 5,39                |  |  |  |  |  |  |  |  |  |  |  |
| 0,25   | 0,22 | 0,28  | 0,44  | 0,53  | 3,90  | 0,54  | 0,28 | 0,31   | 1,16  | 2,31            | 6,94  | 6.                               | 0,45  | 0,41  | 0,37  | 7,65  | 1,12  | 4,90  | 0,97  | 0,61   | 0,77   | 1,98  | 3,82   | 8,70                |  |  |  |  |  |  |  |  |  |  |  |
| 0,25   | 0,19 | 0,39  | 0,44  | 0,53  | 3,11  | 0,48  | 0,35 | 0,28   | 1,04  | 2,15            | 9,75  | 7.                               | 0,45  | 0,49  | 0,33  | 6,75  | 0,97  | 4,06  | 0,87  | 0,61   | 0,73   | 1,98  | 3,19   | 12,5                |  |  |  |  |  |  |  |  |  |  |  |
| 0,22   | 0,22 | 0,39  | 0,40  | 0,53  | 2,47  | 0,53  | 0,31 | 0,25   | 0,93  | 2,05            | 8,52  | 8.                               | 0,45  | 0,45  | 0,41  | 7,80  | 1,02  | 3,35  | 0,87  | 0,57   | 0,61   | 1,92  | 3,94   | 10,5                |  |  |  |  |  |  |  |  |  |  |  |
| 0,22   | 0,22 | 0,39  | 0,40  | 0,58  | 1,86  | 0,48  | 0,31 | 0,19   | 0,93  | 1,70            | 4,82  | 9.                               | 0,37  | 0,41  | 0,37  | 2,40  | 1,02  | 2,87  | 0,92  | 0,53   | 0,49   | 1,87  | 3,43   | 8,10                |  |  |  |  |  |  |  |  |  |  |  |
| 0,22   | 0,22 | 0,39  | 0,40  | 0,58  | 1,48  | 0,35  | 0,39 | 0,19   | 0,83  | 1,56            | 3,62  | 10.                              | 0,41  | 0,27  | 0,30  | 1,62  | 1,02  | 2,30  | 0,77  | 0,53   | 0,30   | 1,62  | 3,11   | 6,31                |  |  |  |  |  |  |  |  |  |  |  |
| 0,22   | 0,25 | 0,35  | 0,40  | 0,63  | 1,30  | 0,31  | 0,39 | 0,58   | 0,88  | 1,38            | 2,98  | 11.                              | 0,41  | 0,41  | 0,61  | 1,57  | 1,12  | 2,10  | 0,69  | 0,61   | 1,12   | 1,62  | 2,79   | 4,90                |  |  |  |  |  |  |  |  |  |  |  |
| 0,22   | 0,25 | 0,98  | 0,40  | 0,68  | 1,09  | 0,28  | 0,35 | 9,34   | 0,83  | 2,18            | 2,50  | 12.                              | 0,37  | 0,30  | 1,07  | 1,12  | 1,17  | 1,87  | 0,65  | 0,53   | 6,90   | 1,82  | 4,66   | 4,06                |  |  |  |  |  |  |  |  |  |  |  |
| 0,22   | 0,22 | 1,65  | 0,40  | 0,68  | 1,09  | 0,31  | 0,31 | 18,3   | 0,73  | 1,98            | 2,05  | 13.                              | 0,37  | 0,27  | 2,37  | 0,69  | 1,17  | 1,72  | 0,65  | 0,53   | 23,0   | 1,47  | 3,94   | 3,27                |  |  |  |  |  |  |  |  |  |  |  |
| 0,28   | 0,19 | 1,45  | 0,44  | 0,63  | 0,97  | 0,39  | 0,39 | 14,1   | 0,83  | 1,98            | 1,84  | 14.                              | 0,53  | 0,27  | 1,87  | 0,77  | 1,17  | 1,57  | 0,65  | 0,49   | 16,4   | 1,57  | 3,61   | 2,87                |  |  |  |  |  |  |  |  |  |  |  |
| 0,31   | 0,19 | 1,62  | 0,43  | 0,58  | 1,15  | 0,35  | 0,35 | 11,4   | 0,93  | 2,12            | 1,44  | 15.                              | 0,53  | 0,27  | 7,40  | 1,32  | 1,02  | 1,98  | 0,69  | 0,49   | 13,3   | 1,82  | 3,52   | 2,51                |  |  |  |  |  |  |  |  |  |  |  |
| 0,48   | 0,22 | 5,26  | 0,43  | 0,53  | 1,15  | 0,28  | 0,35 | 8,74   | 1,28  | 2,05            | 1,20  | 16.                              | 0,65  | 0,30  | 6,75  | 1,22  | 0,97  | 1,98  | 0,61  | 0,53   | 22,1   | 2,04  | 3,27   | 2,10                |  |  |  |  |  |  |  |  |  |  |  |
| 0,39   | 0,22 | 4,64  | 0,39  | 0,53  | 1,09  | 0,31  | 0,28 | 5,38   | 0,98  | 2,02            | 0,99  | 17.                              | 0,65  | 0,30  | 5,78  | 0,65  | 0,92  | 1,82  | 0,61  | 0,49   | 7,05   | 1,72  | 3,35   | 1,87                |  |  |  |  |  |  |  |  |  |  |  |
| 0,35   | 0,22 | 3,51  | 0,43  | 0,53  | 0,97  | 0,31  | 0,31 | 8,59   | 0,98  | 1,84            | 0,88  | 18.                              | 0,61  | 0,30  | 5,02  | 0,77  | 0,92  | 1,72  | 0,61  | 0,33   | 10,7   | 1,62  | 2,95   | 1,67                |  |  |  |  |  |  |  |  |  |  |  |
| 0,35   | 0,19 | 2,77  | 0,39  | 0,58  | 0,97  | 0,31  | 0,35 | 14,2   | 0,93  | 1,79            | 0,88  | 19.                              | 0,57  | 0,37  | 6,45  | 0,45  | 1,02  | 1,82  | 0,61  | 0,53   | 16,8   | 1,67  | 2,87   | 1,77                |  |  |  |  |  |  |  |  |  |  |  |
| 0,31   | 0,19 | 3,25  | 0,28  | 0,73  | 1,03  | 0,89  | 0,25 | 12,9   | 0,88  | 2,07            | 0,88  | 20.                              | 0,57  | 0,45  | 8,10  | 0,69  | 1,17  | 1,87  | 1,02  | 0,33   | 12,5   | 1,57  | 3,27   | 1,77                |  |  |  |  |  |  |  |  |  |  |  |
| 0,31   | 0,22 | 5,94  | 0,28  | 1,05  | 1,03  | 1,33  | 0,25 | 8,41   | 0,88  | 1,79            | 0,80  | 21.                              | 0,53  | 0,57  | 5,02  | 0,82  | 1,47  | 1,82  | 1,77  | 0,49   | 9,30   | 1,57  | 2,79   | 1,52                |  |  |  |  |  |  |  |  |  |  |  |
| 0,28   | 0,25 | 5,02  | 0,31  | 1,48  | 1,06  | 0,89  | 0,25 | 5,48   | 1,04  | 1,79            | 0,72  | 22.                              | 0,53  | 0,41  | 4,54  | 0,65  | 1,77  | 1,82  | 1,37  | 0,65   | 6,90   | 1,72  | 2,87   | 1,47                |  |  |  |  |  |  |  |  |  |  |  |
| 0,31   | 0,25 | 3,43  | 0,35  | 1,76  | 1,00  | 0,74  | 0,25 | 3,40   | 6,42  | 1,86            | 0,78  | 23.                              | 0,45  | 0,30  | 3,35  | 0,61  | 2,23  | 1,72  | 1,12  | 0,69   | 5,26   | 8,05  | 2,79   | 1,67                |  |  |  |  |  |  |  |  |  |  |  |
| 0,28   | 0,25 | 2,54  | 0,31  | 1,76  | 0,94  | 0,68  | 0,25 | 2,82   | 6,90  | 1,58            | 0,78  | 24.                              | 0,49  | 0,27  | 3,19  | 0,65  | 2,23  | 1,67  | 1,07  | 0,82   | 4,06   | 9,30  | 2,51   | 1,52                |  |  |  |  |  |  |  |  |  |  |  |
| 0,28   | 0,25 | 1,93  | 0,31  | 1,76  | 0,89  | 0,58  | 0,25 | 2,90   | 5,06  | 1,58            | 0,98  | 25.                              | 0,53  | 0,41  | 2,44  | 0,24  | 2,23  | 1,52  | 0,97  | 0,82   | 4,18   | 7,65  | 2,51   | 1,67                |  |  |  |  |  |  |  |  |  |  |  |
| 0,28   | 0,25 | 1,45  | 0,40  | 2,20  | 0,84  | 0,53  | 0,25 | 7,18   | 3,52  | 1,58            | 0,88  | 26.                              | 0,45  | 0,41  | 2,37  | 1,47  | 2,44  | 1,47  | 0,92  | 0,92   | 8,55   | 5,91  | 2,65   | 1,52                |  |  |  |  |  |  |  |  |  |  |  |
| 0,25   | 0,39 | 0,70  | 0,48  | 2,78  | 0,79  | 0,48  | 0,25 | 9,66   | 2,98  | 2,15            | 0,93  | 27.                              | 0,45  | 0,37  | 1,87  | 0,92  | 3,11  | 1,42  | 0,87  | 0,97   | 11,7   | 4,51  | 3,52   | 1,52                |  |  |  |  |  |  |  |  |  |  |  |
| 0,25   | 0,43 | 0,46  | 0,58  | 2,63  | 0,74  | 0,43  | 0,28 | 7,66   | 2,66  | 1,86            | 1,10  | 28.                              | 0,45  | 0,49  | 1,67  | 1,02  | 3,03  | 1,27  | 0,77  | 0,87   | 9,30   | 3,52  | 3,11   | 1,92                |  |  |  |  |  |  |  |  |  |  |  |
| 0,25   | 0,58 | 0,43  | 2,33  | 0,64  | 0,39  | 0,39  | 0,28 | 6,06   | 3,76  | 1,93            | 0,99  | 29.                              | 0,53  | 0,57  | 1,98  | 2,87  | 1,17  | 0,77  | 0,87  | 7,80   | 5,65   | 3,11  | 1,72   |                     |  |  |  |  |  |  |  |  |  |  |  |
| 0,25   | 0,48 | 0,52  | 1,80  | 0,64  | 0,43  | 0,43  | 0,28 | 4,66   | 3,14  | 2,07            | 1,11  | 30.                              | 0,49  | 0,49  | 1,92  | 2,51  | 1,17  | 0,77  | 0,87  | 6,75   | 4,54   | 3,11  | 1,77   |                     |  |  |  |  |  |  |  |  |  |  |  |
| 0,43   | 0,49 |       | 1,80  |       | 0,39  |       |      | 3,82   | 2,50  |                 | 1,11  | 31.                              | 0,49  | 1,92  |       |       |       | 2,30  |       | 0,77   |        | 5,52  | 3,61   | 1,77                |  |  |  |  |  |  |  |  |  |  |  |
| 8,40   | 8,12 | 52,02 | 11,29 | 32,81 | 45,45 | 15,99 | 9,51 | 168,08 | 63,39 | 60,10           | 85,73 | Σ                                | 14,78 | 12,26 | 79,24 | 74,13 | 47,89 | 67,41 | 27,96 | 19,39  | 215,78 | 97,63 | 100,16 | 129,01              |  |  |  |  |  |  |  |  |  |  |  |
| Wi: n 181; 158,09  |      |       |       |       |       |       |      |        |       |                 |       | So: n 184; 402,90                |       |       |       |       |       |       |       |  |        |       |        | Jahr: n 365; 560,99 |  |  |  |  |  |  |  |  |  |  |  |
| Wi: n 181; 295,71  |      |       |       |       |       |       |      |        |       |                 |       | So: n 184; 589,93                |       |       |       |       |       |       |       |  |        |       |        | Jahr: n 365; 885,64 |  |  |  |  |  |  |  |  |  |  |  |

| Hauptzahlen  |      |      |                    |      |      |          |      |      |      |      |      |      |
|--|------|------|--------------------|------|------|----------|------|------|------|------|------|------|
| Nov  | Dez  | Jan  | Febr               | März | Apr  | Mai      | Juni | Juli | Aug  | Sept | Okt  | Jahr |
| Abflüsse (m <sup>3</sup> /s) 1954  |      |      |                    |      |      |          |      |      |      |      |      |      |
| oft  | oft  | 6.   | 20.                | 2.   | 29.  | 12.      | oft  | oft  | 13.  | 11.  | 22.  |      |
| 0,22   | 0,19 | 0,28 | 0,28               | 0,39 | 0,64 | 0,28     | 0,25 | 0,19 | 0,73 | 1,38 | 0,72 | 0,19 |
| 0,28   | 0,26 | 1,68 | 0,40               | 1,06 | 1,52 | 0,52     | 0,32 | 5,42 | 2,04 | 2,01 | 2,77 | 0,87 |
| 0,48   | 0,58 | 5,94 | 0,58               | 3,23 | 4,02 | 1,53     | 0,43 | 2,03 | 7,67 | 5,74 | 11,5 | 5,94 |
| 16.  | 29.  | 21.  | 28.                | 27.  | 5.   | 21.      | 2,3. | 12.  | 23.  | 3.   | 7.   | 20,3 |
| 19—/19—**  |      |      |                    |      |      |          |      |      |      |      |      |      |
| Spenden (l/s km <sup>2</sup> ):  |      |      |                    |      |      |          |      |      |      |      |      |      |
| 19—  |      |      |                    |      |      |          |      |      |      |      |      |      |
| 19—/19—  |      |      |                    |      |      |          |      |      |      |      |      |      |
| Nq   | Wi   | So   | Jahr               | Wi   | So   | Jahr     |      |      |      |      |      |      |
| Mq   |      |      |                    |      |      |          | MNq  |      |      |      |      |      |
| Hq   |      |      |                    |      |      |          | Mq   |      |      |      |      |      |
| Außerste Abflüsse (m <sup>3</sup> /s) und Abflußspenden (l/s km <sup>2</sup> ) |      |      |                    |      |      |          |      |      |      |      |      |      |
| 1954   | NQ   | Nq   | Dez, Juli oft      | HQ   | Hq   | 12. Juli |      |      |      |      |      |      |
| 1941/50**)   | 0,19 |      |                    | 20,3 |      |          |      |      |      |      |      |      |
| seit 1950  | NNQ  | NNq  | 24. Aug 1953       | HHQ  | HHq  | 12. Juli |      |      |      |      |      |      |
|  | 0,19 |      | Dez, Juli 1954 oft |      |      |          |      |      |      |      |      |      |

| Hauptzahlen  |      |      |               |                   |      |               |      |      |      |      |      |      |
|--|------|------|---------------|-------------------|------|---------------|------|------|------|------|------|------|
| Nov  | Dez  | Jan  | Febr          | März              | Apr  | Mai           | Juni | Juli | Aug  | Sept | Okt  | Jahr |
| Abflüsse (m <sup>3</sup> /s) 1954  |      |      |               |                   |      |               |      |      |      |      |      |      |
| am   | oft  | oft  | 4.            | 25.               | 17.  | 29.           | oft  | 18.  | 10.  | 13.  | 24.  | 22.  |
| NQ   | 0,37 | 0,27 | 0,27          | 0,24              | 0,92 | 1,17          | 0,61 | 0,33 | 0,30 | 1,47 | 2,51 | 1,47 |
| MQ   | 0,49 | 0,40 | 2,56          | 2,65              | 1,54 | 2,25          | 0,90 | 0,65 | 6,96 | 3,15 | 3,34 | 4,16 |
| HQ   | 0,87 | 0,57 | 8,10          | 8,25              | 3,35 | 5,02          | 2,87 | 1,52 | 22,8 | 10,7 | 20,8 | 13,5 |
| am   | 17.  | 21.  | 20.           | 3.                | 28.  | 5,6.          | 21.  | 20.  | 13.  | 23.  | 3.   | 7.   |
| 19—/19—**  |      |      |               |                   |      |               |      |      |      |      |      |      |
| Spenden (l/s km <sup>2</sup> ):  |      |      |               |                   |      |               |      |      |      |      |      |      |
| 1954   |      |      |               |                   |      |               |      |      |      |      |      |      |
| 19—/19—**  |      |      |               |                   |      |               |      |      |      |      |      |      |
| Nq   | Wi   | So   | Jahr          | Wi                | So   | Jahr          |      |      |      |      |      |      |
| Mq   | 1,13 | 1,42 | 1,13          |                   |      |               | MNq  |      |      |      |      |      |
| Hq   | 7,69 | 15,1 | 11,5          |                   |      |               | Mq   |      |      |      |      |      |
|  | 38,9 | 108  | 108           |                   |      |               | MHq  |      |      |      |      |      |
| Außerste Abflüsse (m <sup>3</sup> /s) und Abflußspenden (l/s km <sup>2</sup> ) |      |      |               |                   |      |               |      |      |      |      |      |      |
| 1954   | NQ   | Nq   | 25. Februar   | HQ                | Hq   | 13. Juli      |      |      |      |      |      |      |
| 1941/50**)   | 0,24 | 1,13 |               | 22,8 = 198 cm a P | 108  |               |      |      |      |      |      |      |
| seit 1950  | NNQ  | NNq  | 13. Sept 1951 | HHQ               | HHq  | 13. Juli 1954 |      |      |      |      |      |      |
|  | 0,18 | 0,85 |               |                   |      |               |      |      |      |      |      |      |

**Eisverhältnisse 1954:** Grundeis an 21 Tagen.

\*) Nach Abflußkurve 1954.  
 \*\*) Jahresreihe und Grenzwerte können noch nicht gebracht werden, Beobachtungen liegen erst seit 1950 vor.

Harzwasserwerke

**Eisverhältnisse 1954:** Randeis an 40 Tagen, Eisstand an 8 Tagen. Eine Abflußbehinderung durch Eis ist nicht erkennbar.

\*) Monatliche Wasserentnahme aus der Innerste oberhalb des Pegels: (m<sup>3</sup>)  
 Nov Dez Jan Febr März April Mai Juni Juli Aug Sept Okt  
 73950 64150 66070 93697 85395 81104 56020 56470 72760 63314 62128 66690

\*\*) Pegel besteht erst seit 1. Februar 1949. Jahresreihe und Grenzwerte können daher noch nicht gebracht werden.  
 Schrägdruck sind 12-Uhr-Ablesungen (Schreibpegel versagte).

LfG Hannover

Innerste

Pegel: Heinde

26 km oberhalb der Mündung  
 PN = NN + 78,82 m. FN = 899 km<sup>2</sup>  
 nach mittleren Tageswasserständen [s. S. 40]

| Tag                                 | Nov               | Dez   | Jan                | Febr              | März                 | April  | Mai   | Juni  | Juli   | Aug    | Sept   | Okt    |
|-------------------------------------|-------------------|-------|--------------------|-------------------|----------------------|--------|-------|-------|--------|--------|--------|--------|
| <b>Tageswerte (m<sup>3</sup>/s)</b> |                   |       |                    |                   |                      |        |       |       |        |        |        |        |
| 1.                                  | 2,60              | 2,36  | 2,95               | 3,62 <sup>∧</sup> | 7,85                 | 8,60   | 3,78  | 2,81  | 2,00   | 13,6   | 9,66   | 20,5   |
| 2.                                  | 2,81              | 2,36  | 2,74               | 3,16 <sup>∧</sup> | 6,63                 | 9,05   | 3,54  | 2,74  | 1,90   | 10,5   | 8,75   | 24,7   |
| 3.                                  | 2,60              | 2,36  | 2,81               | 3,16 <sup>∧</sup> | 9,38                 | 10,2   | 3,54  | 2,48  | 2,06   | 8,75   | 6,06   | 22,8   |
| 4.                                  | 2,48              | 2,36  | 2,60               | 2,60 <sup>∧</sup> | 7,85                 | 12,0   | 4,02  | 2,67  | 1,75   | 8,75   | 18,8   | 13,6   |
| 5.                                  | 2,36              | 2,30  | 2,54               | 2,88 <sup>∧</sup> | 5,51                 | 12,5   | 3,70  | 2,60  | 1,85   | 6,06   | 15,0   | 15,0   |
| 6.                                  | 2,36              | 2,36  | 2,42               | 3,16 <sup>∧</sup> | 4,88                 | 12,7   | 3,54  | 1,85  | 1,90   | 7,04   | 10,5   | 35,7   |
| 7.                                  | 2,24              | 2,36  | 2,74               | 3,02 <sup>∧</sup> | 5,14                 | 11,4   | 3,38  | 2,54  | 1,90   | 7,04   | 8,75   | 43,8   |
| 8.                                  | 2,30              | 2,36  | 2,18               | 2,00 <sup>∧</sup> | 4,88                 | 9,94   | 3,09  | 2,54  | 1,90   | 5,84   | 9,66   | 29,6   |
| 9.                                  | 2,36              | 2,24  | 3,30               | 3,16 <sup>∧</sup> | 4,88                 | 8,30   | 3,09  | 2,60  | 1,90   | 5,84   | 13,3   | 20,5   |
| 10.                                 | 2,54              | 2,30  | 2,60               | 3,16 <sup>∧</sup> | 3,70                 | 7,17   | 2,74  | 2,42  | 2,24   | 5,14   | 10,4   | 22,4   |
| 11.                                 | 2,36              | 2,67  | 3,02               | 3,30 <sup>∧</sup> | 3,70                 | 6,28   | 2,95  | 2,42  | 2,00   | 5,14   | 8,30   | 10,8   |
| 12.                                 | 2,60              | 2,00  | 2,48               | 3,16 <sup>∧</sup> | 3,70                 | 5,14   | 2,74  | 2,18  | 1,50   | 5,14   | 18,8   | 13,3   |
| 13.                                 | 2,54              | 2,36  | 9,38               | 3,16 <sup>∧</sup> | 5,14                 | 5,40   | 2,67  | 2,00  | 40,0   | 4,36   | 24,0   | 10,7   |
| 14.                                 | 2,54              | 2,36  | 12,7               | 2,88 <sup>∧</sup> | 3,70                 | 5,27   | 2,54  | 2,12  | 40,6   | 4,36   | 9,52   | 12,7   |
| 15.                                 | 2,42              | 2,67  | 8,15               | 3,16 <sup>∧</sup> | 3,94                 | 5,73   | 2,54  | 2,12  | 30,5   | 7,04   | 10,4   | 8,75   |
| 16.                                 | 2,74              | 2,42  | 27,2               | 4,10 <sup>∞</sup> | 3,70                 | 7,31   | 1,95  | 2,06  | 23,6   | 4,88   | 10,9   | 5,84   |
| 17.                                 | 3,30              | 2,74  | 25,8               | 4,10              | 3,70                 | 5,73   | 2,42  | 1,95  | 15,7   | 4,88   | 7,04   | 8,75   |
| 18.                                 | 2,88              | 2,06  | 18,5               | 2,88              | 3,70                 | 5,62   | 2,42  | 2,12  | 23,6   | 4,02   | 9,94   | 6,28   |
| 19.                                 | 2,95              | 1,70  | 15,0               | 3,16              | 3,94                 | 5,40   | 2,18  | 2,12  | 29,2   | 4,02   | 9,94   | 8,30   |
| 20.                                 | 2,67              | 1,95  | 13,9               | 2,88              | 3,94                 | 5,14   | 1,90  | 1,95  | 36,1   | 4,36   | 6,06   | 8,30   |
| 21.                                 | 2,74              | 2,42  | 20,0               | 2,67              | 4,36                 | 5,51   | 4,62  | 1,90  | 20,9   | 4,62   | 7,04   | 6,28   |
| 22.                                 | 2,67              | 2,36  | 16,7               | 3,16              | 4,36                 | 5,51   | 3,30  | 1,90  | 16,4   | 4,88   | 8,30   | 8,45   |
| 23.                                 | 2,42              | 2,42  | 13,3 <sup>∧</sup>  | 2,88              | 5,62                 | 5,01   | 3,09  | 1,85  | 13,9   | 35,7   | 8,75   | 7,04   |
| 24.                                 | 2,60              | 2,24  | 10,9 <sup>∧</sup>  | 3,16              | 5,73                 | 4,88   | 3,23  | 1,85  | 8,15   | 35,7   | 8,75   | 9,38   |
| 25.                                 | 2,42              | 2,30  | 8,30 <sup>∧</sup>  | 2,88              | 5,62                 | 4,62   | 3,16  | 1,90  | 13,1   | 23,6   | 7,04   | 8,60   |
| 26.                                 | 2,24              | 2,30  | 9,52 <sup>∧</sup>  | 4,02              | 5,40                 | 4,36   | 3,23  | 1,90  | 22,8   | 20,0   | 8,75   | 6,06   |
| 27.                                 | 2,42              | 2,42  | 5,84 <sup>∧</sup>  | 2,67              | 9,94                 | 3,94   | 2,67  | 1,85  | 30,1   | 15,0   | 13,8   | 8,30   |
| 28.                                 | 2,36              | 2,74  | 5,52 <sup>∧</sup>  | 4,88              | 8,75                 | 3,86   | 2,95  | 1,80  | 23,6   | 10,9   | 9,66   | 9,94   |
| 29.                                 | 2,42              | 3,86  | 5,27 <sup>∧</sup>  | 6,63              | 3,78                 |        | 2,48  | 2,00  | 18,8   | 20,0   | 10,5   | 8,30   |
| 30.                                 | 2,74              | 3,78  | 5,27 <sup>∧</sup>  | 7,17              | 3,78                 |        | 2,42  | 2,00  | 16,4   | 8,75   | 8,60   | 8,15   |
| 31.                                 |                   | 3,30  | 3,94 <sup>∧</sup>  |                   | 7,04                 |        | 2,74  |       | 14,6   | 10,5   |        | 8,45   |
| Σ                                   | 76,68             | 76,43 | 267,37             | 89,02             | 170,48               | 204,13 | 92,62 | 65,24 | 474,45 | 316,41 | 316,97 | 431,27 |
|                                     | Wi: n 181; 884,31 |       | So: n 184; 1696,96 |                   | Jahr: n 365; 2581,27 |        |       |       |        |        |        |        |

Hauptzahlen

|                                   | Nov  | Dez  | Jan  | Febr | März | Apr  | Mai  | Juni | Juli | Aug  | Sept | Okt  | Wi   | So   | Jahr |
|-----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| <b>Abflüsse (m<sup>3</sup>/s)</b> |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| <b>1954</b>                       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| am                                | 7.   | 19.  | 8.   | oft  | 29.  |      | 20.  | 28.  | 4.   | 18.  | 3.   | 16.  |      |      |      |
| NQ                                | 2,24 | 1,70 | 2,18 | 2,00 | 3,70 | 3,78 | 1,90 | 1,80 | 1,75 | 4,02 | 6,06 | 5,84 | 1,70 | 1,75 | 1,70 |
| MQ                                | 2,56 | 2,47 | 8,63 | 3,18 | 5,64 | 6,80 | 2,99 | 2,14 | 15,3 | 10,2 | 10,6 | 13,9 | 4,89 | 9,22 | 7,07 |
| HQ                                | 8,60 | 10,4 | 27,2 | 4,88 | 9,94 | 15,2 | 24,9 | 5,73 | 51,6 | 39,0 | 24,0 | 43,8 | 27,2 | 51,6 | 51,6 |
| am                                | 9.   | 17.  | 16.  | 28.  | 27.  | 3.   | 21.  | 5.   | 13.  | 23.  | 13.  | 7.   |      |      |      |

19—/19—\*)

Spenden (l/s km<sup>2</sup>):

|    | 1954 |      |      | 19—/19—*) |    |      |     |
|----|------|------|------|-----------|----|------|-----|
|    | Wi   | So   | Jahr | Wi        | So | Jahr |     |
| Nq | 1,89 | 1,95 | 1,89 |           |    |      | MNq |
| Mq | 5,44 | 10,3 | 7,86 |           |    |      | Mq  |
| Hq | 30,3 | 57,4 | 57,4 |           |    |      | MHq |

Äußerste Abflüsse (m<sup>3</sup>/s) und Abflußspenden (l/s km<sup>2</sup>)

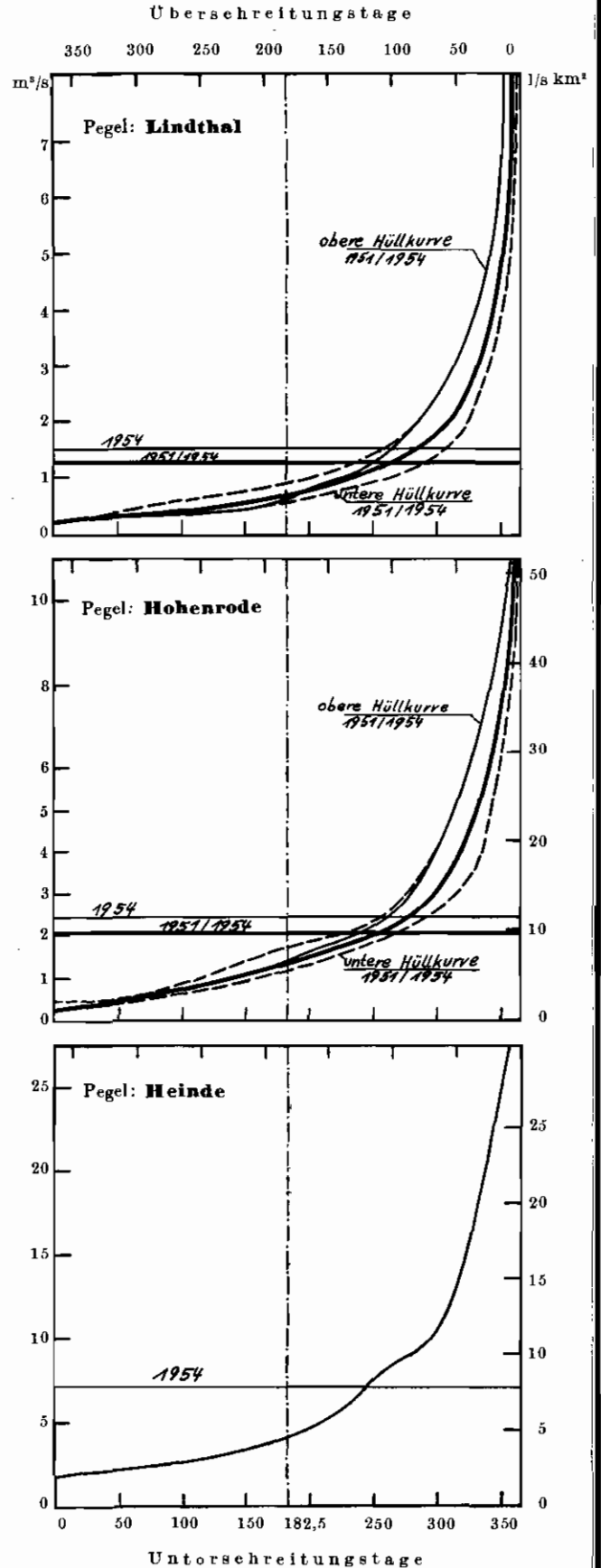
|           | NQ   | Nq   | HQ                | Hq            |
|-----------|------|------|-------------------|---------------|
| 1954      | 1,70 | 1,89 | 51,6 = 490 cm a P | 57,4          |
| 1941/50*) |      |      |                   | 13. Juli      |
| seit 1953 | NNQ  | NNq  | BHQ               | HHq           |
|           | 1,70 | 1,89 | 51,6 = 490 cm a P | 57,4          |
|           |      |      |                   | 13. Juli 1954 |

Eisverhältnisse 1954: Randeis an 19 Tagen, Randeis und Eisbewegung an 5 Tagen.

\*) Jahresreihe und Grenzwerte können nicht gebracht werden, da seit 1. Aug 1952 neuer Pegel.  
 Schrägdruck sind 12-Uhr-Ablesungen, Schreibpegel versagte.

LfG Hannover

Dauerlinien und Jahresmittel der Abflüsse und Abflußspenden





Hunte

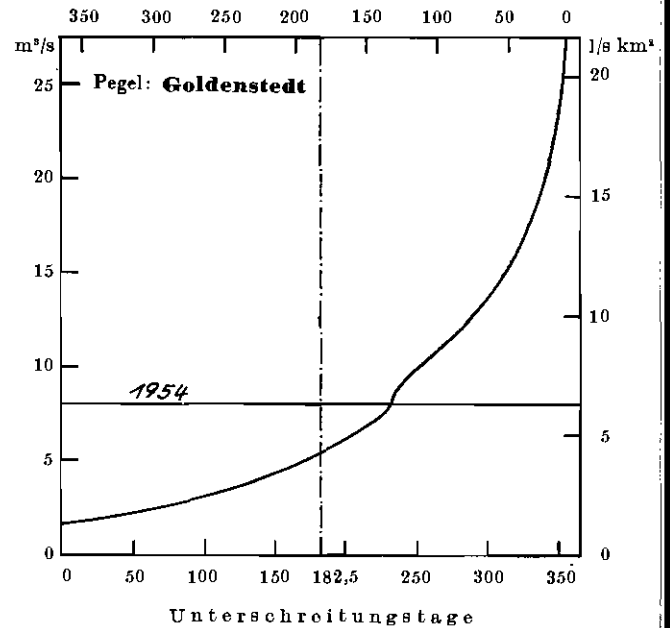
Pegel: Goldenstedt

91,4 km oberhalb der Mündung  
 PN = NN + 21,93 m. FN = 1263 km<sup>2</sup>  
 nach mittleren Tageswasserständen [s. S. 41]

| Tag                                 | Nov   | Dez        | Jan               | Febr              | März       | April   | Mai   | Juni  | Juli   | Aug          | Sept    | Okt    |
|-------------------------------------|-------|------------|-------------------|-------------------|------------|---------|-------|-------|--------|--------------|---------|--------|
| <b>Tageswerte (m<sup>3</sup>/s)</b> |       |            |                   |                   |            |         |       |       |        |              |         |        |
| 1.                                  | 2,13  | 3,07       | 5,18              | 3,81 <sup>∩</sup> | 5,46       | 9,88    | 3,50  | 2,39  | 1,66   | 7,72         | 22,8    | 17,6   |
| 2.                                  | 3,28  | 3,02       | 4,84              | 3,55 <sup>∩</sup> | 5,58       | 11,4    | 3,76  | 2,75  | 1,66   | 6,60         | 21,9    | 19,6   |
| 3.                                  | 2,54  | 2,81       | 4,41              | 3,44 <sup>∩</sup> | 5,40       | 11,9    | 3,28  | 2,70  | 1,66   | 6,42         | 20,9    | 20,5   |
| 4.                                  | 2,54  | 2,75       | 4,73              | 3,44 <sup>∩</sup> | 9,06       | 12,2    | 3,34  | 2,13  | 1,52   | 7,99         | 19,6    | 19,6   |
| 5.                                  | 2,18  | 2,86       | 4,79              | 3,39 <sup>∩</sup> | 11,4       | 13,3    | 3,71  | 2,08  | 1,66   | 7,51         | 18,5    | 17,9   |
| 6.                                  | 2,39  | 2,65       | 4,30              | 3,34 <sup>∩</sup> | 12,4       | 14,2    | 3,60  | 2,13  | 2,39   | 7,38         | 17,4    | 19,9   |
| 7.                                  | 2,39  | 2,70       | 4,19              | 3,28 <sup>∩</sup> | 13,8       | 14,3    | 3,34  | 2,13  | 2,91   | 7,51         | 16,0    | 30,0   |
| 8.                                  | 2,08  | 2,70       | 4,08              | 3,34 <sup>∩</sup> | 16,0       | 12,7    | 2,91  | 2,23  | 2,70   | 7,51         | 15,0    | 37,1   |
| 9.                                  | 2,54  | 2,75       | 3,92              | 3,44 <sup>∩</sup> | 16,6       | 11,4    | 2,70  | 1,82  | 2,91   | 7,78         | 14,0    | 33,5   |
| 10.                                 | 2,13  | 2,86       | 4,25              | 3,50 <sup>∩</sup> | 16,5       | 10,5    | 2,86  | 1,92  | 2,39   | 7,78         | 13,3    | 25,5   |
| 11.                                 | 2,28  | 3,39       | 5,34              | 3,71 <sup>∩</sup> | 15,3       | 9,36    | 2,49  | 1,92  | 2,44   | 9,06         | 12,6    | 23,0   |
| 12.                                 | 2,75  | 3,39       | 8,40              | 3,98 <sup>∩</sup> | 13,9       | 8,68    | 2,23  | 1,87  | 4,35   | 10,8         | 12,2    | 20,8   |
| 13.                                 | 2,49  | 3,07       | 12,9              | 4,30 <sup>∩</sup> | 13,9       | 7,78    | 2,44  | 1,76  | 5,93   | 13,4         | 11,4    | 18,3   |
| 14.                                 | 2,54  | 3,34       | 14,4              | 4,35 <sup>∩</sup> | 13,7       | 6,73    | 2,13  | 2,18  | 6,05   | 14,7         | 10,6    | 15,4   |
| 15.                                 | 2,91  | 3,18       | 15,0              | 4,41 <sup>∩</sup> | 13,2       | 7,24    | 1,87  | 1,92  | 5,23   | 16,1         | 10,1    | 12,0   |
| 16.                                 | 3,39  | 3,23       | 15,0              | 4,19 <sup>∩</sup> | 12,8       | 7,58    | 2,34  | 1,82  | 5,87   | 19,1         | 10,4    | 9,88   |
| 17.                                 | 3,23  | 2,91       | 14,1              | 3,44 <sup>∩</sup> | 12,3       | 7,31    | 2,39  | 1,97  | 5,58   | 24,5         | 11,5    | 12,3   |
| 18.                                 | 3,28  | 3,02       | 11,2              | 3,23              | 11,7       | 7,05    | 2,23  | 1,76  | 5,58   | 26,5         | 11,5    | 13,3   |
| 19.                                 | 3,39  | 3,39       | 9,80              | 3,23              | 10,7       | 6,98    | 2,28  | 1,61  | 6,60   | 26,2         | 11,0    | 13,1   |
| 20.                                 | 3,07  | 2,97       | 8,90              | 3,12              | 10,6       | 6,60    | 2,86  | 1,82  | 6,66   | 24,5         | 10,2    | 12,3   |
| 21.                                 | 2,65  | 3,92       | 9,58              | 2,97              | 10,6       | 6,05    | 4,35  | 1,28  | 5,87   | 22,7         | 10,3    | 12,1   |
| 22.                                 | 2,86  | 4,03       | 9,36              | 3,02 <sup>∩</sup> | 9,88       | 6,11    | 3,87  | 1,61  | 5,46   | 22,1         | 10,6    | 11,8   |
| 23.                                 | 3,18  | 4,03       | 7,92              | 2,86 <sup>∩</sup> | 9,28       | 5,58    | 3,34  | 1,71  | 4,79   | 23,8         | 11,3    | 13,6   |
| 24.                                 | 2,65  | 4,15       | 6,60              | 2,91              | 9,06       | 4,46    | 2,97  | 1,87  | 4,73   | 31,8         | 11,1    | 15,7   |
| 25.                                 | 2,60  | 4,19       | 5,87 <sup>∩</sup> | 2,86              | 7,05       | 3,87    | 2,75  | 1,82  | 4,62   | 37,1         | 10,6    | 16,3   |
| 26.                                 | 2,65  | 4,57       | 5,46 <sup>∩</sup> | 4,35              | 7,65       | 4,08    | 2,49  | 1,82  | 5,18   | 35,3         | 11,2    | 12,1   |
| 27.                                 | 2,60  | 5,29       | 5,46 <sup>∩</sup> | 5,18              | 9,73       | 3,87    | 2,49  | 1,92  | 6,86   | 31,8         | 11,1    | 9,95   |
| 28.                                 | 2,44  | 6,60       | 6,23 <sup>∩</sup> | 5,34              | 10,7       | 3,23    | 2,34  | 1,97  | 6,98   | 26,2         | 11,6    | 13,2   |
| 29.                                 | 3,23  | 6,86       | 5,81 <sup>∩</sup> |                   | 9,95       | 3,44    | 1,97  | 1,92  | 6,86   | 25,1         | 13,2    | 16,5   |
| 30.                                 | 3,50  | 6,60       | 5,06 <sup>∩</sup> |                   | 9,13       | 3,44    | 1,97  | 1,71  | 7,72   | 24,5         | 15,4    | 18,9   |
| 31.                                 |       | 5,58       | 4,25 <sup>∩</sup> |                   | 9,36       |         | 2,39  |       | 8,19   | 23,8         |         | 19,6   |
| Σ                                   | 81,89 |            | 231,33            | 101,98            |            | 241,22  | 87,19 | 58,54 | 143,01 | 563,26       |         | 551,33 |
|                                     |       | 115,88     |                   |                   | 342,69     |         |       |       |        | 407,30       |         |        |
|                                     |       | Wi: n 181; | 1114,99           |                   | So: n 184; | 1810,63 |       |       |        | Jahr: n 365; | 2925,62 |        |

Dauerlinien und Jahresmittel der Abflüsse und Abflußpenden

Überschreitungstage



Hauptzahlen

|  | Nov  | Dez  | Jan  | Febr | März | Apr  | Mai  | Juni | Juli | Aug  | Sept | Okt  | Wi   | So   | Jahr |
|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| <b>Abflüsse (m<sup>3</sup>/s) 1954</b> |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| am                                     | 8.   | 6.   | 9.   | 23.  | 3.   | 28.  | 15.  | 21.  | 4.   | 3.   | 15.  | 16.  |      |      |      |
| NQ                                     | 2,08 | 2,65 | 3,92 | 2,86 | 5,40 | 3,23 | 1,87 | 1,28 | 1,52 | 6,42 | 10,1 | 9,88 | 2,08 | 1,28 | 1,28 |
| MQ                                     | 2,73 | 3,74 | 7,46 | 3,64 | 11,1 | 8,04 | 2,81 | 1,95 | 4,61 | 18,2 | 13,6 | 17,8 | 6,16 | 9,84 | 8,02 |
| HQ                                     | 4,69 | 7,38 | 15,3 | 5,62 | 16,8 | 14,5 | 4,95 | 3,65 | 8,46 | 37,1 | 23,4 | 37,1 | 16,8 | 37,1 | 37,1 |
| am                                     | 2.   | 29.  | 15.  | 27.  | 9.   | 6,7. | 21.  | 3.   | 30.  | 25.  | 1.   | 8,9. |      |      |      |

19—/19—\*)

NQ  
MNQ  
MQ  
MHQ  
HQ  
HQ

Spenden (l/s km<sup>2</sup>):

|    | 1954 |      |      | 19—/19—*) |    |      |
|----|------|------|------|-----------|----|------|
|    | Wi   | So   | Jahr | Wi        | So | Jahr |
| Nq | 1,65 | 1,01 | 1,01 |           |    |      |
| Mq | 4,88 | 7,79 | 6,35 |           |    |      |
| Hq | 13,3 | 29,4 | 29,4 |           |    |      |

Äußerste Abflüsse (m<sup>3</sup>/s) und Abflußpenden (l/s km<sup>2</sup>)

|           | NQ   | Nq   | HQ           | Hq   |
|-----------|------|------|--------------|------|
| 1954      | 1,28 | 1,01 | 37,1         | 29,4 |
| 1941/50*) |      |      | = 336 cm a P | oft  |
| seit 1953 | NNQ  | NNq  | HHQ          | HHq  |
|           | 1,28 | 1,01 | 37,1         | 29,4 |
|           |      |      | = 336 cm a P | oft  |

Eisverhältnisse 1954: Randeis und Eisbewegung an 8 Tagen, Randeis an 16 Tagen, Eisbewegung an 1 Tag.

\*) Jahresreihe und Grenzwerte können nicht gebracht werden, da neuer Pegel.

LfG Hannover

## Wassertemperaturen

w = Messungen wöchentlich  
t = Messungen täglich

Hauptzahlen (C°)

| Gewässer  | P e g e l              | Beob-<br>achtet<br>um<br>Uhr | Abfluß-<br>jahre               | Nov        | Dez        | Jan        | Febr       | März       | April      | Mai          | Juni         | Juli         | Aug          | Sept         | Okt          | Wi         | So           | Jahr       |              |              |
|---|------------------------|------------------------------|--------------------------------|------------|------------|------------|------------|------------|------------|--------------|--------------|--------------|--------------|--------------|--------------|------------|--------------|------------|--------------|--------------|
|   |                        |                              |                                | MT         |            |            |            |            |            |              |              |              |              |              |              |            |              | NT         | MT           | HT           |
| Weser   | Hann.-Münden           | t<br>7 Uhr                   | 1954                           | 6,5        | 4,3        | 1,0        | -0,5       | 4,4        | 7,4        | 13,0         | 17,1         | 15,4         | 16,7         | 14,6         | 10,0         | 3,9        | 14,5         | -0,5       | 9,2          | 22,0         |
| Weser   | Bodenwerder            | t<br>12 Uhr                  | 1954<br>1941/1950<br>seit 1939 | 6,8<br>6,0 | 4,8<br>3,1 | 1,6<br>1,8 | 0,3<br>2,6 | 5,4<br>4,9 | 8,7<br>9,5 | 14,6<br>13,7 | 17,6<br>16,8 | 16,6<br>18,4 | 18,0<br>17,8 | 17,0<br>15,3 | 11,0<br>10,7 | 4,6<br>4,7 | 15,7<br>15,4 | 0,2<br>0,0 | 10,2<br>10,1 | 23,0<br>28,0 |
| Weser   | Intschede              | t<br>12 Uhr                  | 1954<br>1941/1950<br>seit 1939 | 7,7<br>5,9 | 5,6<br>3,4 | 1,9<br>2,0 | 0,0<br>2,7 | 4,8<br>4,4 | 9,1<br>9,7 | 14,8<br>13,9 | 18,8<br>17,1 | 16,4<br>18,7 | 17,3<br>18,4 | 15,8<br>15,3 | 11,6<br>11,1 | 4,9<br>4,7 | 15,8<br>15,8 | 0,0<br>0,0 | 10,4<br>10,3 | 23,2<br>23,9 |
| Werra   | Ludwigstein            | t<br>12 Uhr                  | 1954<br>1941/1950<br>seit 1940 | 6,8<br>5,8 | 4,9<br>3,0 | 1,4<br>2,0 | 0,6<br>2,5 | 5,8<br>4,9 | 8,9<br>9,2 | 15,2<br>13,5 | 19,8<br>16,7 | 16,7<br>18,4 | 17,7<br>17,5 | 15,8<br>15,0 | 11,1<br>10,3 | 4,8<br>4,5 | 16,0<br>15,3 | 0,2<br>0,0 | 10,5<br>9,9  | 24,9<br>23,7 |
| Fulda   | Gunthershausen         | t<br>8 Uhr                   | 1954<br>1941/1950<br>seit 1940 | 6,6<br>6,2 | 4,1<br>3,2 | 1,2<br>1,8 | 1,0<br>2,3 | 4,4<br>4,7 | 8,3<br>9,4 | 12,8<br>14,0 | 14,3<br>16,6 | 14,6<br>17,1 | 16,7<br>16,4 | 15,3<br>14,5 | 10,4<br>11,4 | 4,3<br>4,5 | 14,0<br>15,0 | 0,2<br>0,0 | 9,2<br>9,8   | 19,2<br>23,2 |
| Eder  | Schmittlotheim         | t<br>7 Uhr                   | 1954<br>1941/1950<br>seit 1933 | 5,4<br>4,2 | 3,5<br>2,3 | 0,7<br>1,1 | 0,0<br>1,7 | 2,8<br>3,3 | 7,7        | 12,2<br>12,3 | 15,9<br>15,5 | 13,7<br>17,5 | 14,1<br>16,8 | 12,7<br>13,9 | 9,5<br>9,2   | 2,5<br>3,4 | 13,0<br>14,2 | 0,0<br>0,0 | 8,3<br>8,9   | 21,5<br>24,2 |
| Eder  | Affoldern*)            | t<br>7 Uhr                   | 1954                           | 7,5        | 4,7        | 1,3        | 1,4        | 3,9        | 6,8        | 9,3          | 10,0         | 13,7         | 15,9         | 14,9         | 11,2         | 4,4        | 12,5         | 0,6        | 8,5          | 17,8         |
| ohne Vergleichsreihe, da in den Jahren nicht laufend gemessen |                        |                              |                                |            |            |            |            |            |            |              |              |              |              |              |              |            |              |            |              |              |
| Aller   | Brenneckentrück        | w<br>8 Uhr                   | 1954                           | 7,7        | 5,3        | 0,7        | 0,9        | 4,3        | 7,9        | 13,7         | 16,7         | 15,2         | 15,2         | 14,5         | 11,0         | 4,5        | 14,1         | 0,2        | 9,3          | 20,2         |
| Oker  | Ohrum                  | w<br>8 Uhr                   | 1954                           | 9,1        | 6,4        | 1,3        | 0,5        | 4,4        | 7,7        | 14,3         | 17,5         | 14,9         | 15,5         | 13,9         | 11,2         | 4,9        | 14,6         | 0,1        | 9,7          | 21,6         |
| Oker  | Groß-Schwülper         | w<br>8 Uhr                   | 1954                           | 9,1        | 6,8        | 1,6        | 1,4        | 4,3        | 8,6        | 15,4         | 19,3         | 15,9         | 16,4         | 15,0         | 11,3         | 5,2        | 15,3         | 0,1        | 10,3         | 22,9         |
| Leine   | Nörten-Harden-<br>berg | w<br>8 Uhr                   | 1954                           | 8,7        | 6,6        | 2,6        | 1,5        | 5,0        | 7,4        | 11,8         | 14,7         | 13,9         | 13,7         | 13,0         | 10,6         | 5,2        | 13,0         | 0,2        | 9,1          | 18,4         |
| Leine   | Greene                 | w<br>8 Uhr                   | 1954                           | 7,9        | 6,2        | 2,6        | 1,3        | 5,9        | 8,3        | 14,3         | 17,0         | 14,3         | 14,4         | 12,9         | 10,8         | 5,4        | 14,0         | 0,1        | 9,7          | 20,2         |
| Leine   | Poppenburg             | w<br>8 Uhr                   | 1954                           | 9,0        | 7,5        | 2,6        | 1,6        | 5,2        | 8,4        | 13,7         | 17,4         | 14,3         | 14,6         | 14,0         | 10,8         | 5,7        | 14,1         | 0,0        | 9,9          | 21,2         |
| Rhume   | Rhumequelle            | w<br>8 Uhr                   | 1954                           | 9,1        | 9,1        | 9,0        | 9,0        | 9,1        | 9,1        | 9,2          | 9,1          | 9,1          | 9,1          | 9,1          | 9,0          | 9,1        | 9,1          | 8,9        | 9,1          | 9,2          |
| Rhume   | Berka                  | w<br>8 Uhr                   | 1954                           | 9,7        | 7,2        | 2,9        | 3,2        | 4,7        | 7,4        | 10,8         | 15,5         | 13,8         | 15,3         | 13,2         | 10,8         | 5,7        | 13,2         | 2,1        | 9,5          | 17,2         |
| Innerste  | Heinde                 | w<br>8 Uhr                   | 1954                           | 8,0        | 6,2        | 2,2        | 1,4        | 5,9        | 8,0        | 14,6         | 17,8         | 14,7         | 14,8         | 13,1         | 11,1         | 5,3        | 14,4         | 0,6        | 9,8          | 20,6         |
| Hunte   | Goldenstedt            | w<br>versch.                 | 1954                           | 6,7        | 4,4        | 0,9        | -0,1       | 3,9        | 8,1        | 14,1         | 16,2         | 14,7         | 14,9         | 14,8         | 11,1         | 4,0        | 14,3         | -0,6       | 9,2          | 19,1         |

**Bemerkungen:** Von Hann.-Münden bis Affoldern nach Angaben der Wasser- und Schifffahrtsdirektion Hannover.  
Bei den übrigen Meßstellen werden seit 1951 Temperaturmessungen durchgeführt.

\*) Temperaturen durch Edertalsperre beeinflusst.

# Grundwasserstände

Spiegelstände in cm unter Meßpunkt

## Hauptzahlen

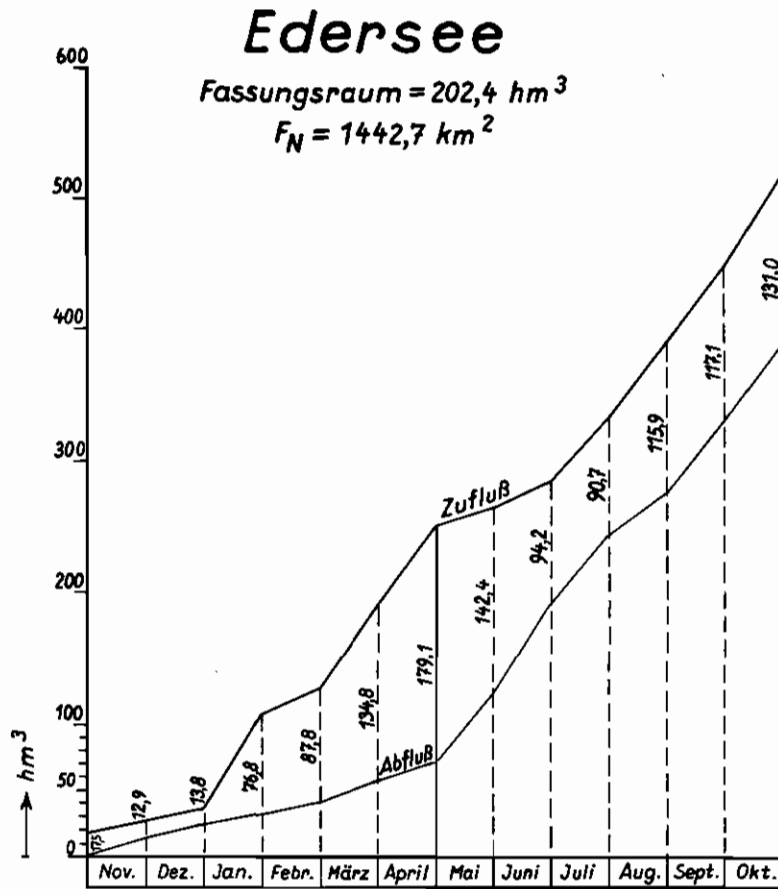
Die Nummer der Grundwassermeßstelle gibt das Einzelblatt der Karte 1:100 000 sowie die Nummer der Meßstelle im Einzelblatt an. Der hinzugefügte Buchstabe bedeutet w = Wirtschaftsbrunnen, r = Rohrbrunnen bzw. Beobachtungrohr (Beispiel: Hepstedt 176/5 w).

Die Abkürzungen für die Beobachtungsspannen bedeuten w = wöchentlich, hw = halbwöchentlich und t = tägliche Beobachtungen.

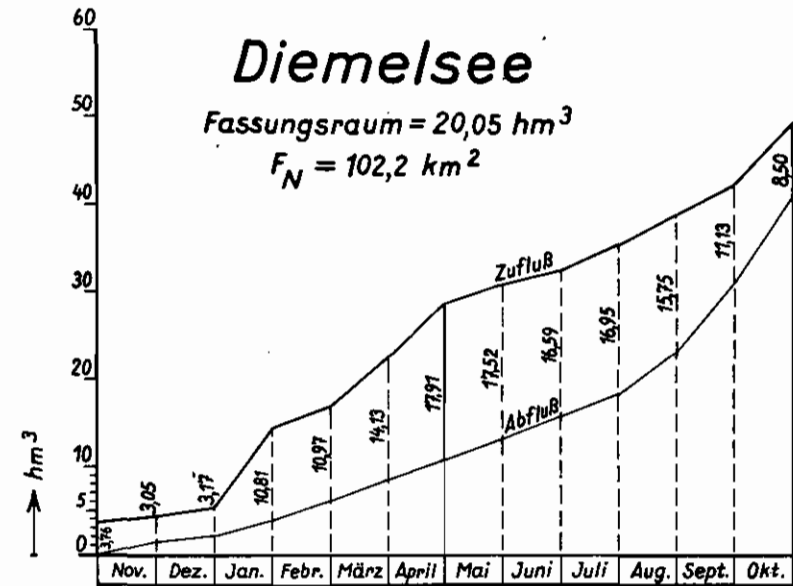
| Name<br>Nr.<br>(WVA)                    | Mbl. Nr.<br>Rechtswert<br>Hochwert | Formation<br>Facies<br>Stockwerk | Meßpunkt<br>über<br>+<br>Flur in cm<br>-<br>Beob-<br>achtung | Ab-<br>fluß-<br>jahre        | Nov | Dez | Jan | Febr | März | April | Mai | Juni | Juli | Aug | Sept | Okt | Wi  | So  | Jahr |     |     |
|---|------------------------------------|----------------------------------|--|------------------------------|-----|-----|-----|------|------|-------|-----|------|------|-----|------|-----|-----|-----|------|-----|-----|
|   |                                    |                                  |  |                              | MW  |     |     |      |      |       |     |      |      |     |      |     |     |     | NW   | MW  | HW  |
| Hepstedt<br>176/5 w<br>(Stade)          | 2720<br>35.05.790<br>59.03.220     | Diluv.<br>unt. Sande<br>I.       | + 73 w   | 1954                         | 267 | 264 | 241 | 252  | 252  | 242   | 251 | 269  | 270  | 226 | 226  | 219 | 253 | 243 | 279  | 248 | 206 |
| Kirchlatten<br>206/21 r<br>(Cloppenbg.) | 2916<br>34.56.090<br>58.77.100     | Diluv.<br>ob. Sande<br>I.        | + 20 hw  | 1954                         | 166 | 166 | 139 | 156  | 143  | 132   | 158 | 165  | 155  | 120 | 132  | 95  | 151 | 138 | 182  | 144 | 79  |
| Mulmshorn<br>207/3 w<br>(Verden)        | 2821<br>35.20.470<br>58.92.830     | Diluv.<br>unt. Sande<br>I.       | + 40 w   | 1954                         | 336 | 338 | 322 | 310  | 312  | 293   | 291 | 308  | 315  | 295 | 274  | 264 | 319 | 291 | 341  | 305 | 251 |
| Riepe<br>208/1 w<br>(Verden)            | 2723<br>35.44.440<br>58.98.020     | Diluv.<br>unt. Sande<br>I.       | + 7 w  | 1954                         | 281 | 270 | 244 | 251  | 237  | 236   | 255 | 266  | 257  | 206 | 217  | 204 | 254 | 234 | 290  | 244 | 186 |
| Schwalingen<br>208/22 w<br>(Celle)      | 2924<br>35.46.900<br>58.82.710     | Diluv.<br>Talsande<br>I.         | + 30 w   | 1954                         | 243 | 243 | 217 | 230  | 215  | 201   | 225 | 242  | 227  | 174 | 172  | 140 | 225 | 197 | 254  | 211 | 133 |
| Twistringen<br>234/2 r<br>(Hannover)    | 3217<br>34.76.040<br>58.51.050     | Diluv.<br>unt. Sande<br>2.       | ± 0 w  | 1954                         | 756 | 758 | 756 | 759  | 757  | 743   | 743 | 758  | 764  | 734 | 684  | 636 | 755 | 720 | 769  | 737 | 606 |
| Martfeld<br>235/1 w<br>(Hannover)       | 3120<br>35.03.380<br>52.59.830     | Diluv.<br>unt. Sande<br>I.       | + 87 w   | 1954                         | 300 | 290 | 271 | 279  | 270  | 257   | 278 | 294  | 297  | 251 | 239  | 231 | 278 | 265 | 320  | 272 | 220 |
| Krelingen<br>236/2 w<br>(Celle)         | 3123<br>35.44.275<br>58.52.380     | Diluv.<br>Talsande<br>I.         | + 75 w   | 1954                         | 339 | 333 | 318 | 312  | 317  | 301   | 312 | 324  | 326  | 289 | 277  | 268 | 320 | 299 | 340  | 310 | 262 |
| Weesen<br>237/4 w<br>(Celle)            | 3126<br>35.77.060<br>58.56.850     | Diluv.<br>Talsande<br>I.         | + 100 w  | 1954                         | 288 | 290 | 282 | 288  | 286  | 282   | 290 | 297  | 280  | 269 | 274  | 263 | 286 | 279 | 299  | 282 | 257 |
| Lindhorst<br>237/6 r<br>(Celle)         | 3226<br>35.71.050<br>58.50.200     | Diluv.<br>Talsande<br>I.         | + 50 w   | 1954                         | 356 | 348 | 338 | 344  | 339  | 331   | 342 | 352  | 343  | 322 | 318  | 305 | 343 | 330 | 358  | 337 | 299 |
| Fuhrberg<br>262/1 r<br>(Celle)          | 3425<br>35.58.120<br>58.26.290     | Diluv.<br>Talsande<br>I.         | + 56 w   | 1954<br>1941/50<br>seit 1916 | 232 | 227 | 212 | 219  | 210  | 195   | 210 | 227  | 211  | 176 | 180  | 161 | 216 | 194 | 238  | 205 | 151 |
| Stemshorn<br>284/1 w<br>(Hannover)      | 3516<br>34.56.140<br>58.13.560     | Diluv.<br>Talsande<br>I.         | + 103 w  | 1954                         | 339 | 337 | 304 | 317  | 285  | 290   | 320 | 338  | 327  | 272 | 274  | 260 | 313 | 299 | 348  | 305 | 244 |
| Kolshorn<br>287/1 w<br>(Celle)          | 3525<br>35.64.920<br>58.10.300     | Diluv.<br>ob. Sande<br>I.        | + 100 w  | 1954                         | 371 | 379 | 375 | 361  | 375  | 366   | 357 | 370  | 365  | 330 | 325  | 311 | 371 | 343 | 382  | 357 | 305 |

# Talsperrenleistungen

## Eder- und Diemel-Talsperre im Abflußjahr 1954



|                                   |                |      |      |      |       |       |       |       |       |       |       |       |       |       |
|-----------------------------------|----------------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Summenwerte<br>in hm <sup>3</sup> | a. + Zufluß    | 17,5 | 27,4 | 36,3 | 109,0 | 129,6 | 192,7 | 251,6 | 266,7 | 286,3 | 335,5 | 392,4 | 449,0 | 522,4 |
|                                   | b. Abfluß      | 14,5 | 22,5 | 32,2 | 41,8  | 57,9  | 72,5  | 124,3 | 192,1 | 244,8 | 276,5 | 331,9 | 391,4 | 391,4 |
| Einzelwerte<br>in hm <sup>3</sup> | a. Zufluß      | 9,9  | 8,9  | 72,7 | 20,6  | 63,7  | 58,9  | 15,1  | 19,6  | 49,2  | 56,9  | 56,6  | 73,4  |       |
|                                   | b. Speicherung | —    | 0,9  | 63,0 | 11,0  | 47,0  | 44,3  | 36,7  | 48,2  | 3,5   | 25,2  | 1,2   | 13,9  |       |
|                                   | c. Zuschub     | 4,6  | —    | —    | —     | —     | —     | —     | —     | —     | —     | —     | —     |       |
|                                   | d. Abfluß      | 14,5 | 8,0  | 9,7  | 9,6   | 16,1  | 14,6  | 51,8  | 67,8  | 52,7  | 31,7  | 55,4  | 59,5  |       |

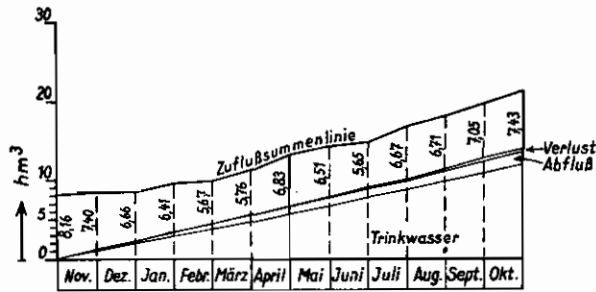


|                                   |                |      |      |      |       |       |       |       |       |       |       |       |       |       |
|-----------------------------------|----------------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Summenwerte<br>in hm <sup>3</sup> | a. + Zufluß    | 3,76 | 4,45 | 5,32 | 14,74 | 17,10 | 22,68 | 28,75 | 30,80 | 32,49 | 35,42 | 38,89 | 42,24 | 49,43 |
|                                   | b. Abfluß      | 1,40 | 2,15 | 3,93 | 6,13  | 8,55  | 10,84 | 13,28 | 15,90 | 18,47 | 23,14 | 31,11 | 40,93 |       |
| Einzelwerte<br>in hm <sup>3</sup> | a. Zufluß      | 0,69 | 0,87 | 9,42 | 2,36  | 5,58  | 6,07  | 2,05  | 1,69  | 2,93  | 3,47  | 3,35  | 7,19  |       |
|                                   | b. Speicherung | —    | 0,72 | 7,64 | 0,16  | 3,76  | 3,78  | —     | 0,39  | 0,93  | 0,36  | 1,20  | 4,62  |       |
|                                   | c. Zuschub     | —    | —    | —    | —     | —     | —     | —     | —     | —     | —     | —     | —     |       |
|                                   | d. Abfluß      | 1,40 | 0,75 | 1,78 | 2,20  | 2,42  | 2,29  | 2,44  | 2,62  | 2,57  | 4,67  | 7,97  | 9,82  |       |

# Die Harztalesperren im Abflußjahr 1954

## Ecker

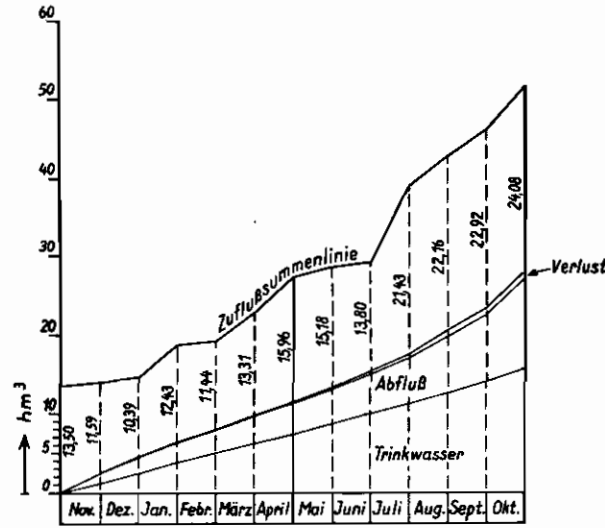
Fassungsraum = 12,64 hm<sup>3</sup>  
F<sub>N</sub> = 18,9 km<sup>2</sup>



| Summenwerte<br>in hm <sup>3</sup> | Bestand + Zufluß |      |      |      |      |       |       |       |       |       |       |       |       |
|-----------------------------------|------------------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|
|                                   |                  | 8,46 | 9,73 | 9,52 | 9,83 | 11,16 | 13,33 | 14,22 | 14,61 | 16,79 | 18,04 | 19,59 | 21,21 |
| a. Trinkw.-Abgabe                 | 0,90             | 1,81 | 2,71 | 3,62 | 4,63 | 5,57  | 6,66  | 7,78  | 8,77  | 9,81  | 10,82 | 11,88 |       |
| b. Trinkw.-Abgabe + Abfluß        | 1,05             | 2,05 | 3,08 | 4,12 | 5,34 | 6,42  | 7,59  | 8,79  | 9,90  | 11,07 | 12,25 | 13,47 |       |
| b.+Verluste                       | 1,06             | 2,07 | 3,11 | 4,16 | 5,40 | 6,50  | 7,71  | 8,96  | 10,12 | 11,33 | 12,54 | 13,78 |       |
| Einzelwerte<br>in hm <sup>3</sup> | Zufluß           | 0,30 | 0,27 | 0,79 | 0,31 | 1,33  | 2,17  | 0,89  | 0,39  | 2,78  | 1,25  | 1,55  | 1,62  |
|                                   | Trinkw.-Abgabe   | 0,90 | 0,91 | 0,90 | 0,91 | 1,01  | 0,94  | 1,09  | 1,12  | 0,99  | 1,04  | 1,01  | 1,06  |
|                                   | Abfluß           | 0,15 | 0,09 | 0,13 | 0,13 | 0,21  | 0,14  | 0,08  | 0,08  | 0,12  | 0,13  | 0,17  | 0,16  |

## Söse

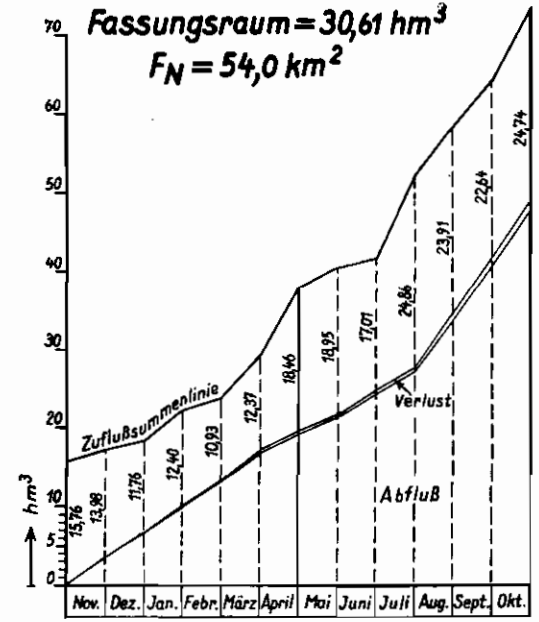
Fassungsraum = 25,45 hm<sup>3</sup>  
F<sub>N</sub> = 50,0 km<sup>2</sup>



| Summenwerte<br>in hm <sup>3</sup> | Bestand + Zufluß |       |       |       |       |       |       |       |       |       |       |       |       |
|-----------------------------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                                   |                  | 14,06 | 14,68 | 18,60 | 19,23 | 22,92 | 27,37 | 28,50 | 29,11 | 38,95 | 42,61 | 46,11 | 51,82 |
| a. Trinkw.-Abgabe                 | 1,21             | 2,45  | 3,76  | 4,90  | 6,14  | 7,37  | 8,64  | 9,93  | 11,21 | 12,57 | 13,91 | 15,26 |       |
| b. Trinkw.-Abgabe + Abfluß        | 2,45             | 4,26  | 6,13  | 7,73  | 9,51  | 11,25 | 13,06 | 14,93 | 17,00 | 19,81 | 22,47 | 26,98 |       |
| b.+Verluste                       | 2,47             | 4,29  | 6,17  | 7,79  | 9,61  | 11,41 | 13,32 | 15,31 | 17,52 | 20,45 | 23,19 | 27,74 |       |
| Einzelwerte<br>in hm <sup>3</sup> | Zufluß           | 0,56  | 0,62  | 3,92  | 0,63  | 3,69  | 4,45  | 1,13  | 0,61  | 9,84  | 3,66  | 3,50  | 5,71  |
|                                   | Trinkw.-Abgabe   | 1,21  | 1,24  | 1,31  | 1,14  | 1,24  | 1,23  | 1,27  | 1,29  | 1,28  | 1,36  | 1,34  | 1,35  |
|                                   | Abfluß           | 1,24  | 0,57  | 0,56  | 0,46  | 0,54  | 0,51  | 0,54  | 0,58  | 0,79  | 1,45  | 1,32  | 3,16  |

## Oder

Fassungsraum = 30,61 hm<sup>3</sup>  
F<sub>N</sub> = 54,0 km<sup>2</sup>



| Summenwerte<br>in hm <sup>3</sup> | Bestand + Zufluß |       |       |       |       |       |       |       |       |       |       |       |       |
|-----------------------------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                                   |                  | 17,28 | 18,43 | 22,31 | 23,87 | 29,21 | 37,90 | 40,52 | 41,75 | 52,36 | 58,35 | 64,12 | 73,44 |
| a. Trinkw.-Abgabe                 | —                | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     |       |
| b. Trinkw.-Abgabe + Abfluß        | 3,28             | 6,64  | 9,87  | 12,89 | 16,75 | 19,30 | 21,33 | 24,40 | 27,02 | 33,84 | 40,81 | 47,99 |       |
| b.+Verluste                       | 3,30             | 6,67  | 9,91  | 12,94 | 16,84 | 19,44 | 21,57 | 24,74 | 27,50 | 34,44 | 41,48 | 48,70 |       |
| Einzelwerte<br>in hm <sup>3</sup> | Zufluß           | 1,52  | 1,15  | 3,88  | 1,56  | 5,34  | 8,69  | 2,62  | 1,23  | 10,61 | 5,99  | 5,77  | 9,32  |
|                                   | Trinkw.-Abgabe   | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     |
|                                   | Abfluß           | 3,28  | 3,36  | 3,23  | 3,02  | 3,86  | 2,55  | 2,03  | 3,07  | 2,62  | 6,82  | 6,97  | 7,18  |

## Fallhöhen, Gefälle, Abflüsse und Abflußspenden der Weser, Werra, Fulda und Aller bei MNW, MW und MHW

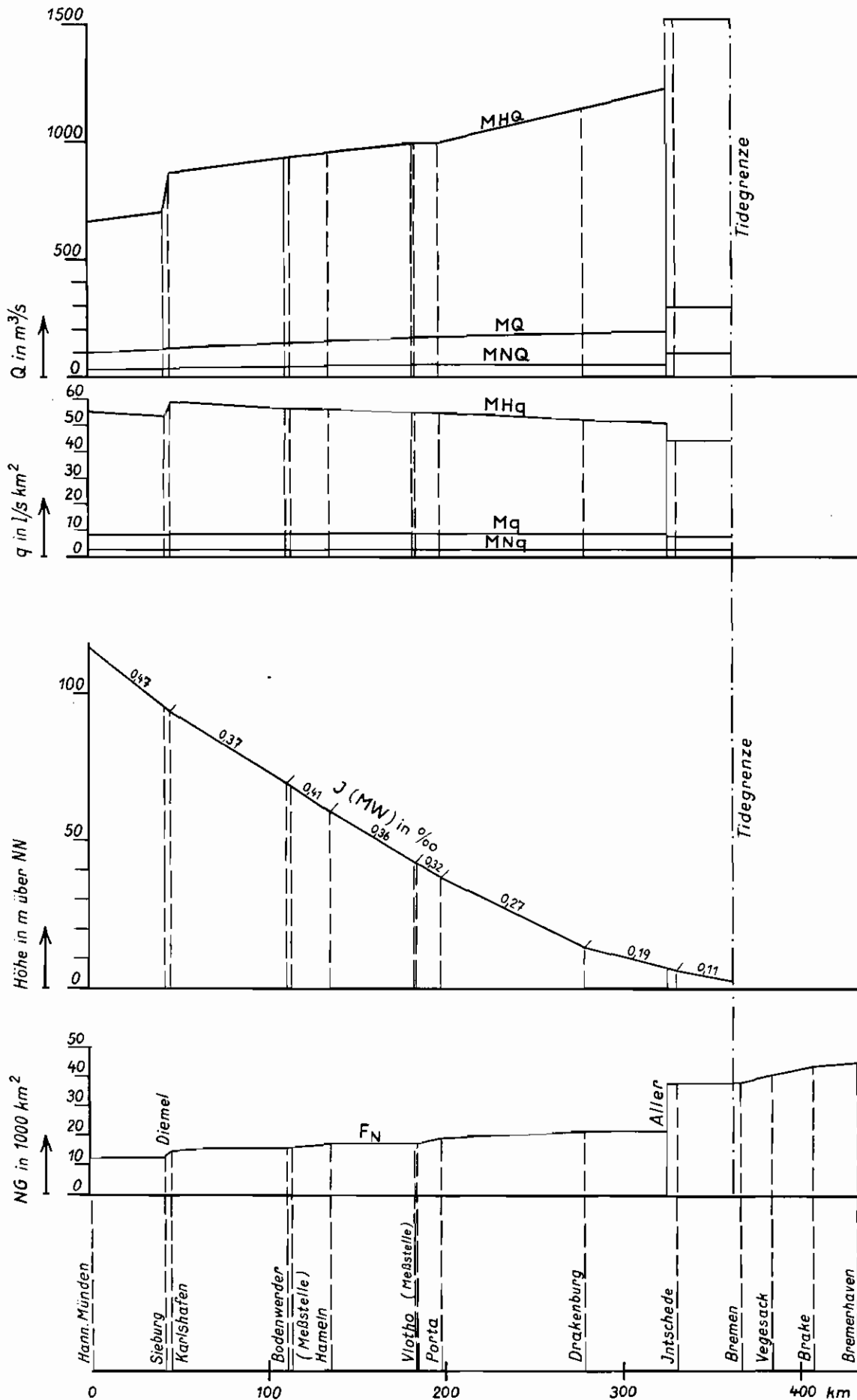
| Flußlauf | Pegel                      | Lage<br>am Fluß<br>km | Pegelnul<br>zu NN<br>m | FN<br>km²        | Jahresreihe              | Wasserstände<br>cm über PN<br>m über NN |               |               | Fallhöhen in m<br>Gefälle in ‰<br>bei |               |               | Abflüsse in m³/s<br>Abflußspenden<br>in l/s km² |              |              |
|----------|----------------------------|-----------------------|------------------------|------------------|--------------------------|---|---------------|---------------|---------------------------------------|---------------|---------------|---|--------------|--------------|
|          |                            |                       |                        |                  |                          | MNW                                     | NW            | MHW           | MNW                                   | MW            | MHW           | MNQ   | MQ           | MHQ          |
| 1        | 2                          | 3                     | 4                      | 5                | 6                        | 7                                       | 8             | 9             | 10                                    | 11            | 12            | 13  | 14           | 15           |
| Weser    | Hann.-Münden               | -0,08                 | 115,111 aS             | 12 443           | 1941/50                  | 93<br>116,04                            | 182<br>116,93 | 524<br>20,35  | 19,80<br>0,47                         | 19,88<br>0,47 | 20,27<br>0,48 |   |              |              |
| Weser    | Sieburg                    | 42,40                 | 95,000 aS              | 13 027           | 1941/50                  | 124<br>96,24                            | 205<br>97,05  | 508<br>100,08 |                                       |               |               | 33,3<br>2,56                                    | 109<br>8,37  | 701<br>53,8  |
| Weser    | Karlshafen                 | 45,25                 | 93,100 aS              | 14 793**)        | 1941/50                  |   |               |               | 25,68<br>0,38                         | 25,53<br>0,37 | 25,45<br>0,37 | 37,4<br>2,53                                    | 127<br>8,52  | 875<br>59,1  |
| Weser    | Bodenwerder<br>(Meßstelle) | 110,80<br>113,00      | 69,350 aS              | 15 929<br>16 100 | 1941/50                  | 221<br>70,56                            | 227<br>71,52  | 528<br>74,63  | 10,23<br>0,41                         | 10,14<br>0,41 | 9,68<br>0,39  | 39,6<br>2,46                                    | 140<br>8,70  | 919<br>57,1  |
| Weser    | Hameln                     | 135,60                | 59,422 aS              | 17 077           | 1941/50                  | 91<br>60,33                             | 196<br>61,38  | 553<br>64,95  | 16,95<br>0,36                         | 17,80<br>0,36 | 17,16<br>0,36 |   |              |              |
| Weser    | Vlotho<br>(Meßstelle)      | 182,97<br>184,01      | 42,125 aS              | 17 583<br>17 618 | 1941/50                  | 125<br>43,38                            | 225<br>44,38  | 566<br>47,79  | 4,94<br>0,32                          | 4,93<br>0,32  | 5,12<br>0,33  | 52,3<br>2,97                                    | 157<br>8,91  | 990<br>56,2  |
| Weser    | Porta                      | 198,36                | 37 023 aS              | 19 162           | 1941/50                  | 143<br>38,44                            | 244<br>39,45  | 566<br>42,67  | 21,89<br>0,27                         | 21,59<br>0,27 | 21,15<br>0,26 | 55,5<br>2,90                                    | 176<br>9,18  | 989<br>51,3  |
| Weser    | Drakenburg                 | 278,89                | 14,000 aS              | 21 924           | 1941/50                  | 255<br>16,55                            | 386<br>37,86  | 752<br>21,52  | 10,44<br>0,20                         | 10,17<br>0,19 | 10,24<br>0,20 | 57,9<br>2,64                                    | 192<br>8,75  | 1139<br>51,9 |
| Weser    | Intschede                  | 331,22                | 4,796 aS               | 37 769           | 1941/50                  | 135<br>6,15                             | 289<br>7,69   | 648<br>11,28  |                                       |               |               | 202<br>2,70                                     | 311<br>8,23  | 1516<br>40,1 |
| Werra    | Dorndorf <sup>o)</sup>     | 167                   | 224,154 aS             | 2 240            | W: 1945/50<br>Q: 1938/50 | 46<br>224,61                            | 123<br>225,38 | 355<br>227,70 | 28,53<br>0,69                         | 21,45<br>0,69 | 21,32<br>0,69 | 4,03<br>1,80                                    | 29,5<br>20,5 | 191<br>85,3  |
| Werra    | Gerstungen <sup>o)</sup>   | 236                   | 202,730 aS             | 3 051            | W: 1941/50<br>Q: 1936/50 | 35<br>203,08                            | 223<br>203,93 | 365<br>206,38 | 24,32<br>0,54                         | 24,65<br>0,55 | 25,20<br>0,56 | 4,67<br>1,53                                    | 30,2<br>9,90 | 221<br>72,4  |
| Werra    | Frankenroda <sup>o)</sup>  | 91                    | 177,980 aS             | 4 215            | W: 1945/50<br>Q: 1936/50 | 78<br>178,76                            | 130<br>179,28 | 330<br>281,28 |                                       |               |               | 9,32<br>2,21                                    | 39,2<br>9,28 | 242<br>57,4  |
| Werra    | Heldra                     | 77                    | 168,000 aS             | 4 308            |                          |   |               |               | 62,72<br>0,68                         | 62,35<br>0,68 | 60,93<br>0,67 |   |              |              |
| Werra    | Ludwigstein                | 29,72                 | 136,000 aS             | 5 261            |                          |   |               |               |                                       |               |               |   |              |              |
| Weser    | Hann.-Münden               | + 0,08*)              | 115,111 aS             | 12 443           | 1941/50                  | 93<br>116,04                            | 182<br>116,93 | 524<br>20,35  |                                       |               |               |   |              |              |
| Fulda    | Fulda                      | 184                   | 242,560 aS             | 585              | 1941/50                  | 47<br>242,07                            | 104<br>242,64 | 345<br>245,05 | 61,44<br>0,69                         | 61,38<br>0,69 | 61,05<br>0,69 |   |              |              |
| Fulda    | Rotenburg                  | 95,3                  | 180,503 aS             | 2 515            | 1941/50                  | 13<br>180,63                            | 76<br>181,26  | 350<br>184,80 |                                       |               |               |   |              |              |
| Fulda    | Grebenau                   | 55                    | 151,000 aS             | 2 970            |                          |   |               |               | 64,59<br>0,67                         | 64,33<br>0,67 | 63,65<br>0,66 |   |              |              |
| Fulda    | Guntershausen              | 43,6                  | 140,861 aS             | 6 360            |                          |   |               |               |                                       |               |               |   |              |              |
| Weser    | Hann.-Münden               | + 0,08*)              | 115,111 aS             | 12 443           | 1941/50                  | 93<br>116,04                            | 182<br>116,93 | 524<br>20,35  |                                       |               |               |   |              |              |
| Aller    | Brenneckenbrück            | 155                   | 47,57 aS               | 1 639            | 1946/50                  | 19<br>47,76                             | 84<br>48,45   | 232<br>49,89  | 14,99<br>0,36                         | 14,83<br>0,36 | 14,00<br>0,34 |   |              |              |
| Aller    | Celle                      | 113,85                | 31,824 nS              | 4 382            | 1941/50                  | 95<br>32,77                             | 176<br>33,58  | 427<br>35,89  | 20,79<br>0,22                         | 20,51<br>0,21 | 20,50<br>0,21 |   |              |              |
| Aller    | Westen                     | 18,43                 | 10,586 aS              | 13 163           | 1941/50                  | 139<br>28,98                            | 248<br>13,07  | 480<br>25,39  | 5,27<br>0,23                          | 5,38<br>0,23  | 4,15<br>0,18  |   |              |              |
| Weser    | Intschede                  | -3,0*)                | 4,796 aS               | 37 769           | 1941/50                  | 131<br>6,11                             | 289<br>7,69   | 648<br>11,28  |                                       |               |               |   |              |              |

<sup>o)</sup> Die Jahresreihen sind ohne 1945 gebildet.

<sup>\*</sup> Bezogen auf die Werra-, Fulda- oder Allerstationierung.

<sup>\*\*)</sup> Einschließlich Diemel.

# Hydrologischer Längsschnitt der Weser



Nordsee

Zeichenerklärung:

- - - = Grenze des Wesergebietes
- = Fluß
- |— = Kanal
- = Binnensee
- |— = Talsperre
- = Lattenpegel
- ⚡ = Schreibpegel
- = Meßquelle
- † = Wetterdienststelle Langenhagen
- · - · - = Zonengrenze
- WAT = Wasserstand, Abfluß, Temperatur



Übersichtskarte  
zum  
Deutschen Gewässerkundlichen Jahrbuch  
Weser  
Abflußjahr 1954

Maßstab:  
0 10 20 30 40 50 km