

# **Badische Landesbibliothek Karlsruhe**

**Digitale Sammlung der Badischen Landesbibliothek Karlsruhe**

## **Ergebnisse der Untersuchung der Hochwasserverhältnisse im Deutschen Rheingebiet**

Auf Veranlassung der Reichskommission zur Untersuchung der Stromverhältnisse des Rheins und seiner wichtigsten Nebenflüsse und auf Grund der von den Wasserbaubehörden der Rheingebietsstaaten gelieferten Aufzeichnungen

Die Anschwellungen im Rhein, ihre Fortpflanzung im Strome nach Mass und Zeit unter Einwirkung der Nebenflüsse

**Tein, Maximilian von**

**1897**

Tabelle V

[urn:nbn:de:bsz:31-39076](https://nbn-resolving.org/urn:nbn:de:bsz:31-39076)

| Beobachtet |       | Waldshut |               |       | Zeit-<br>unter-<br>schied | Hünigen |               |       | Zeit-<br>unter-<br>schied | Rheinau |               |       | Zeit-<br>unter-<br>schied | Kehl |               |       | Zeit-<br>unter-<br>schied |   |
|------------|-------|----------|---------------|-------|---------------------------|---------|---------------|-------|---------------------------|---------|---------------|-------|---------------------------|------|---------------|-------|---------------------------|---|
|            |       | Höhe     | Eintrittszeit |       |                           | Höhe    | Eintrittszeit |       |                           | Höhe    | Eintrittszeit |       |                           | Höhe | Eintrittszeit |       |                           |   |
| Jahr       | Monat | cm       | Tag           | Stde. | Stdn.                     | cm      | Tag           | Stde. | Stdn.                     | cm      | Tag           | Stde. | Stdn.                     | cm   | Tag           | Stde. | Stdn.                     |   |
| 1891       | XI    | 148*     | 8             | 10p-  | —                         | —       | —             | —     | —                         | —       | —             | —     | —                         | 190* | 9             | 8p-   | —                         |   |
|            |       |          | 9             | 12a   |                           |         |               |       |                           |         |               |       |                           | 22   | 10            | 11a   |                           |   |
| 1891       | III   | 150*     | 25            | 8p-   | —                         | —       | —             | —     | —                         | —       | —             | —     | —                         | 16   | 198*          | 26    | 12a-                      | — |
|            |       |          |               | 9p    |                           |         |               |       |                           |         |               |       |                           | 20   |               | 5p    |                           |   |
| 1892       | XI    | 172*     | 25            | 2p-   | —                         | —       | —             | —     | —                         | —       | —             | —     | —                         | 20   | 209*          | 26    | 10a-                      | — |
|            |       |          |               | 3p    |                           |         |               |       |                           |         |               |       |                           | 25   |               | 4p    |                           |   |
| 1894       | IV    | 174*     | 27            | 3a-   | —                         | —       | —             | —     | —                         | —       | —             | —     | —                         | 22   | 185           | 28    | 1a-                       | — |
|            |       |          |               | 12a   |                           |         |               |       |                           |         |               |       |                           | 18   |               | 6a    |                           |   |
| 1893       | IX    | 181*     | 21            | 6a-   | —                         | —       | —             | —     | —                         | —       | —             | —     | —                         | 19   | 207*          | 22    | 1a-                       | — |
|            |       |          |               | 11a   |                           |         |               |       |                           |         |               |       |                           | 19   |               | 6a    |                           |   |
| 1893       | IX    | 181*     | 3             | 6a-   | —                         | —       | —             | —     | —                         | —       | —             | —     | —                         | 18   | 222*          | 3     | 12p-                      | — |
|            |       |          |               | 7a    |                           |         |               |       |                           |         |               |       |                           | 19   |               | 4     | 2a                        |   |
| 1890       | IV    | 187*     | 19            | 5a-   | —                         | —       | —             | —     | —                         | —       | —             | —     | —                         | 19   | 233*          | 19    | 12p-                      | — |
|            |       |          |               | 7a    |                           |         |               |       |                           |         |               |       |                           | 19   |               | 20    | 2a                        |   |
| 1890       | IV    | 188*     | 18            | 3a-   | —                         | —       | —             | —     | —                         | —       | —             | —     | —                         | 21   | 234*          | 18    | 12p-                      | — |
|            |       |          |               | 6a    |                           |         |               |       |                           |         |               |       |                           | 23   |               | 19    | 5a                        |   |
| 1893       | VI    | 190*     | 18            | 9p-   | —                         | —       | —             | —     | —                         | —       | —             | —     | —                         | 21   | 214*          | 19    | 6p-                       | — |
|            |       |          |               | 7a    |                           |         |               |       |                           |         |               |       |                           | 21   |               | 20    | 4a                        |   |
| 1893       | V     | 190*     | 18            | 5a-   | —                         | —       | —             | —     | —                         | —       | —             | —     | —                         | 22   | 214*          | 19    | 3a-                       | — |
|            |       |          |               | 7a    |                           |         |               |       |                           |         |               |       |                           | 23   |               | 6a    |                           |   |
| 1890       | IV    | 190*     | 17            | 1a-   | —                         | —       | —             | —     | —                         | —       | —             | —     | —                         | 21   | 235*          | 17    | 10p-                      | — |
|            |       |          |               | 3a    |                           |         |               |       |                           |         |               |       |                           | 21   |               | 12p   |                           |   |
| 1890       | IV    | 196*     | 17            | 8a-   | —                         | —       | —             | —     | —                         | —       | —             | —     | —                         | 23   | 238*          | 18    | 7a-                       | — |
|            |       |          |               | 1p    |                           |         |               |       |                           |         |               |       |                           | 22   |               | 11a   |                           |   |
| 1890       | IV    | 196*     | 18            | 4p    | —                         | —       | —             | —     | —                         | —       | —             | —     | —                         | 21   | 238*          | 19    | 1p-                       | — |
|            |       |          |               |       |                           |         |               |       |                           |         |               |       |                           | 22   |               | 2p    |                           |   |
| 1893       | VI    | 197*     | 16            | 4a-   | —                         | —       | —             | —     | —                         | —       | —             | —     | —                         | 21   | 223*          | 17    | 1a-                       | — |
|            |       |          |               | 7a    |                           |         |               |       |                           |         |               |       |                           | 24   |               | 7a    |                           |   |
| 1891       | IV    | 197*     | 22            | 2a-   | —                         | —       | —             | —     | —                         | —       | —             | —     | —                         | 20   | 250*          | 22    | 10p-                      | — |
|            |       |          |               | 3a    |                           |         |               |       |                           |         |               |       |                           | 21   |               | 12p   |                           |   |
| 1891       | IV    | 198*     | 23            | 3a-   | —                         | —       | —             | —     | —                         | —       | —             | —     | —                         | 19   | 251*          | 23    | 10p-                      | — |
|            |       |          |               | 4a    |                           |         |               |       |                           |         |               |       |                           | 21   |               | 24    | 1a                        |   |
| 1890       | IV    | 199*     | 16            | 11a-  | —                         | —       | —             | —     | —                         | —       | —             | —     | —                         | 21   | 239*          | 17    | 8a-                       | — |
|            |       |          |               | 4p    |                           |         |               |       |                           |         |               |       |                           | 20   |               | 12a   |                           |   |
| 1893       | IX    | 220*     | 10            | 3a-   | —                         | —       | —             | —     | —                         | —       | —             | —     | —                         | 20   | 230*          | 10    | 11p-                      | — |
|            |       |          |               | 4a    |                           |         |               |       |                           |         |               |       |                           | 24   |               | 11    | 4a                        |   |
| 1891       | IV    | 232*     | 25            | 9p-   | —                         | —       | —             | —     | —                         | —       | —             | —     | —                         | 19   | 270*          | 26    | 4p-                       | — |
|            |       |          |               | 10p   |                           |         |               |       |                           |         |               |       |                           | 23   |               | 9p    |                           |   |
| 1891       | X     | 234*     | 3             | 11p-  | —                         | —       | —             | —     | —                         | —       | —             | —     | —                         | 20   | 276*          | 4     | 7p-                       | — |
|            |       |          |               | 2a    |                           |         |               |       |                           |         |               |       |                           | 19   |               | 9p    |                           |   |
| 1892       | IX    | 242*     | 21            | 7a-   | —                         | —       | —             | —     | —                         | —       | —             | —     | —                         | 22   | 276*          | 22    | 5a-                       | — |
|            |       |          |               | 4p    |                           |         |               |       |                           |         |               |       |                           | 20   |               | 12a   |                           |   |
| 1892       | VIII  | 259*     | 26            | 12a   | —                         | —       | —             | —     | —                         | —       | —             | —     | —                         | 21   | 283*          | 27    | 9a-                       | — |
|            |       |          |               |       |                           |         |               |       |                           |         |               |       |                           | 25   |               | 1p    |                           |   |
| 1893       | VI    | 262*     | 6             | 11p-  | —                         | —       | —             | —     | —                         | —       | —             | —     | —                         | 25   | 270*          | 7     | 12p-                      | — |
|            |       |          |               | 4a    |                           |         |               |       |                           |         |               |       |                           | 23   |               | 8     | 3a                        |   |
| 1893       | V     | 268*     | 25            | 7a-   | —                         | —       | —             | —     | —                         | —       | —             | —     | —                         | 22   | 269*          | 26    | 5a-                       | — |
|            |       |          |               | 9a    |                           |         |               |       |                           |         |               |       |                           | 23   |               | 8a    |                           |   |
| 1892       | IX    | 272*     | 25            | 1a    | —                         | —       | —             | —     | —                         | —       | —             | —     | —                         | 19   | 308*          | 25    | 8p-                       | — |
|            |       |          |               |       |                           |         |               |       |                           |         |               |       |                           | 21   |               | 10p   |                           |   |
| 1892       | IX    | 292*     | 10            | 8p    | —                         | —       | —             | —     | —                         | —       | —             | —     | —                         | 21   | 314*          | 11    | 5p-                       | — |
|            |       |          |               |       |                           |         |               |       |                           |         |               |       |                           | 23   |               | 7p    |                           |   |
| 1892       | IX    | 328*     | 6             | 8a-   | —                         | —       | —             | —     | —                         | —       | —             | —     | —                         | 26   | 338*          | 7     | 10a-                      | — |
|            |       |          |               | 12a   |                           |         |               |       |                           |         |               |       |                           | 26   |               | 2p    |                           |   |
| 1891       | VII   | 356*     | 25            | 4a-   | —                         | —       | —             | —     | —                         | —       | —             | —     | —                         | 23   | 372*          | 26    | 3a-                       | — |
|            |       |          |               | 6a    |                           |         |               |       |                           |         |               |       |                           | 28   |               | 10a   |                           |   |
| 1892       | VI    | 366*     | 7             | 11a-  | —                         | —       | —             | —     | —                         | —       | —             | —     | —                         | 27   | 398*          | 8     | 2p-                       | — |
|            |       |          |               | 3p    |                           |         |               |       |                           |         |               |       |                           | 27   |               | 6p    |                           |   |

(Fortsetzung auf Seite 36.)

V.

| Gamsheim |               |       | Zeit-<br>unter-<br>schied | Maxau |               |          | Zeit-<br>unter-<br>schied | Speyer |               |       | Zeit-<br>unter-<br>schied | Mannheim |               |       | Zeit-<br>unter-<br>schied                      | Frankenthal |               |       | Zeit-<br>unter-<br>schied |
|----------|---------------|-------|---------------------------|-------|---------------|----------|---------------------------|--------|---------------|-------|---------------------------|----------|---------------|-------|------------------------------------------------|-------------|---------------|-------|---------------------------|
| Höhe     | Eintrittszeit |       |                           | Höhe  | Eintrittszeit |          |                           | Höhe   | Eintrittszeit |       |                           | Höhe     | Eintrittszeit |       |                                                | Höhe        | Eintrittszeit |       |                           |
| cm       | Tag           | Stde. | Stdn.                     | cm    | Tag           | Stde.    | Stdn.                     | cm     | Tag           | Stde. | Stdn.                     | cm       | Tag           | Stde. | Stdn.                                          | cm          | Tag           | Stde. | Stdn.                     |
| —        | —             | —     | für Kl.-Mx. 9             | 300*  | 10            | 5 a—     | —                         | —      | —             | —     | für Mx.-Mhm. 8            | 254*     | 10            | 1 p—  | Eintritt } des Beharrungs-<br>Ende } zustandes | —           | —             | —     | —                         |
| —        | —             | —     | 12                        | —     | —             | 11 p     | —                         | —      | —             | —     | 5                         | —        | 11            | 4 a   |                                                | —           | —             | —     | —                         |
| —        | —             | —     | —                         | —     | —             | —        | —                         | —      | —             | —     | für Kl.-Mhm. 17           | 268*     | 27            | 5 a—  | —                                              | —           | —             | —     | —                         |
| —        | —             | —     | —                         | —     | —             | —        | —                         | —      | —             | —     | 15                        | —        | —             | 8 a   | —                                              | —           | —             | —     | —                         |
| —        | —             | —     | 8                         | 311*  | 28            | 9 a—     | —                         | —      | —             | —     | —                         | —        | —             | —     | —                                              | —           | —             | —     | —                         |
| —        | —             | —     | 9                         | —     | —             | 3 p      | —                         | —      | —             | —     | —                         | —        | —             | —     | —                                              | —           | —             | —     | —                         |
| —        | —             | —     | 10                        | 316*  | 22            | 11 a—    | —                         | —      | —             | —     | 9                         | 267*     | 22            | 8 p—  | —                                              | —           | —             | —     | —                         |
| —        | —             | —     | 16                        | —     | 23            | 8 a      | —                         | —      | —             | —     | 4                         | —        | 23            | 12 a  | —                                              | —           | —             | —     | —                         |
| —        | —             | —     | 9                         | 320*  | 4             | 9 a—     | —                         | —      | —             | —     | 9                         | 270*     | 4             | 6 p—  | —                                              | —           | —             | —     | —                         |
| —        | —             | —     | 9                         | —     | —             | 11 a     | —                         | —      | —             | —     | 14                        | —        | 5             | 1 a   | —                                              | —           | —             | —     | —                         |
| —        | —             | —     | —                         | —     | —             | —        | —                         | —      | —             | —     | —                         | —        | —             | —     | —                                              | —           | —             | —     | —                         |
| —        | —             | —     | 12                        | 329*  | 20            | 6 a—     | —                         | —      | —             | —     | 8                         | 286*     | 20            | 2 p—  | —                                              | —           | —             | —     | —                         |
| —        | —             | —     | 10                        | —     | —             | 2 p      | —                         | —      | —             | —     | 10                        | —        | —             | 12 p  | —                                              | —           | —             | —     | —                         |
| —        | —             | —     | 8                         | 331*  | 19            | 11 a—    | —                         | —      | —             | —     | 7                         | 293*     | 19            | 6 p—  | —                                              | —           | —             | —     | —                         |
| —        | —             | —     | 7                         | —     | —             | 1 p      | —                         | —      | —             | —     | 13                        | —        | 20            | 2 a   | —                                              | —           | —             | —     | —                         |
| —        | —             | —     | —                         | —     | —             | —        | —                         | —      | —             | —     | —                         | —        | —             | —     | —                                              | —           | —             | —     | —                         |
| —        | —             | —     | —                         | —     | —             | —        | —                         | —      | —             | —     | —                         | —        | —             | —     | —                                              | —           | —             | —     | —                         |
| —        | —             | —     | 11                        | 360*  | 24            | 9 a—     | —                         | —      | —             | —     | —                         | —        | —             | —     | —                                              | —           | —             | —     | —                         |
| —        | —             | —     | 9                         | —     | —             | 10 a     | —                         | —      | —             | —     | —                         | —        | —             | —     | —                                              | —           | —             | —     | —                         |
| —        | —             | —     | —                         | —     | —             | —        | —                         | —      | —             | —     | —                         | —        | —             | —     | —                                              | —           | —             | —     | —                         |
| —        | —             | —     | 15                        | 344*  | 11            | 2 p—     | —                         | —      | —             | —     | 12                        | 294*     | 12            | 2 a—  | —                                              | —           | —             | —     | —                         |
| —        | —             | —     | 12                        | —     | —             | 4 p      | —                         | —      | —             | —     | 13                        | —        | —             | 5 a   | —                                              | —           | —             | —     | —                         |
| —        | —             | —     | 11                        | 381*  | 27            | 3 a—     | —                         | —      | —             | —     | 20                        | 360*     | 27            | 11 p— | —                                              | —           | —             | —     | —                         |
| —        | —             | —     | 9                         | —     | —             | 6 a      | —                         | —      | —             | —     | 20                        | —        | 28            | 2 a   | —                                              | —           | —             | —     | —                         |
| —        | —             | —     | 10                        | 396*  | 5             | 5 a—     | —                         | —      | —             | —     | 19                        | 377*     | 5             | 12 p— | —                                              | —           | —             | —     | —                         |
| —        | —             | —     | 14                        | —     | —             | 11 a     | —                         | —      | —             | —     | 16                        | —        | 6             | 3 a   | —                                              | —           | —             | —     | —                         |
| —        | —             | —     | 13                        | 391   | 22            | 6 p      | —                         | —      | —             | —     | für Kl.-Mhm. 26           | 355*     | 23            | 7 a—  | —                                              | —           | —             | —     | —                         |
| —        | —             | —     | —                         | —     | —             | —        | —                         | —      | —             | —     | 29                        | —        | —             | 5 p   | —                                              | —           | —             | —     | —                         |
| —        | —             | —     | —                         | —     | —             | —        | —                         | —      | —             | —     | für Kl.-Mhm. 26           | 370*     | 28            | 11 a— | —                                              | —           | —             | —     | —                         |
| —        | —             | —     | —                         | —     | —             | —        | —                         | —      | —             | —     | 29                        | —        | —             | 6 p   | —                                              | —           | —             | —     | —                         |
| —        | —             | —     | 13                        | 394*  | 8             | 1/2 p—   | —                         | —      | —             | —     | 15                        | 354*     | 9             | 4 a—  | —                                              | —           | —             | —     | —                         |
| —        | —             | —     | 14                        | —     | —             | 4 1/2 p  | —                         | —      | —             | —     | 18                        | —        | —             | 11 a  | —                                              | —           | —             | —     | —                         |
| —        | —             | —     | 14                        | 394*  | 26            | 6 1/2 p— | —                         | —      | —             | —     | 19                        | 359*     | 27            | 2 p—  | —                                              | —           | —             | —     | —                         |
| —        | —             | —     | 16                        | —     | —             | 11 1/2 p | —                         | —      | —             | —     | 21                        | —        | —             | 9 p   | —                                              | —           | —             | —     | —                         |
| —        | —             | —     | 16                        | 421   | 26            | 12 a     | —                         | —      | —             | —     | für Kl.-Mhm. 29           | 385*     | 27            | 1 a—  | —                                              | —           | —             | —     | —                         |
| —        | —             | —     | —                         | —     | —             | —        | —                         | —      | —             | —     | 30                        | —        | —             | 4 a   | —                                              | —           | —             | —     | —                         |
| —        | —             | —     | 13                        | 440   | 12            | 6 a      | —                         | —      | —             | —     | für Kl.-Mhm. 29           | 412*     | 12            | 10 p— | —                                              | —           | —             | —     | —                         |
| —        | —             | —     | —                         | —     | —             | —        | —                         | —      | —             | —     | 31                        | —        | 13            | 2 a   | —                                              | —           | —             | —     | —                         |
| —        | —             | —     | 20                        | 461   | 8             | 6 a      | —                         | —      | —             | —     | für Kl.-Mhm. 34           | 433*     | 8             | 8 p—  | —                                              | —           | —             | —     | —                         |
| —        | —             | —     | —                         | —     | —             | —        | —                         | —      | —             | —     | 34                        | —        | —             | 12 p  | —                                              | —           | —             | —     | —                         |
| —        | —             | —     | 15                        | 503   | 26            | 6 p      | —                         | —      | —             | —     | für Kl.-Mhm. 43           | 521*     | 27            | 10 p— | —                                              | —           | —             | —     | —                         |
| —        | —             | —     | —                         | —     | —             | —        | —                         | —      | —             | —     | 39                        | —        | 28            | 1 a   | —                                              | —           | —             | —     | —                         |
| —        | —             | —     | 22                        | 529   | 9             | 12 a—    | —                         | —      | —             | —     | für Kl.-Mhm. 37           | 524*     | 10            | 3 a—  | —                                              | —           | —             | —     | —                         |
| —        | —             | —     | 24                        | —     | —             | 6 p      | —                         | —      | —             | —     | 39                        | —        | —             | 9 a   | —                                              | —           | —             | —     | —                         |

Für Frankenthal und die Folgestationen fehlen die entsprechenden genauen Zeitbestimmungen.

(Fortsetzung auf Seite 37.)

(Fortsetzung von Seite 34.)

| Beobachtet |       | Waldshut |               |                                        | Zeit-<br>unter-<br>schied | Hünigen |               |       | Zeit-<br>unter-<br>schied  | Rheinau |               |       | Zeit-<br>unter-<br>schied | Kehl |               |            | Zeit-<br>unter-<br>schied |
|------------|-------|----------|---------------|----------------------------------------|---------------------------|---------|---------------|-------|----------------------------|---------|---------------|-------|---------------------------|------|---------------|------------|---------------------------|
|            |       | Höhe     | Eintrittszeit |                                        |                           | Höhe    | Eintrittszeit |       |                            | Höhe    | Eintrittszeit |       |                           | Höhe | Eintrittszeit |            |                           |
| Jahr       | Monat | cm       | Tag           | Stde.                                  | Stdn.                     | cm      | Tag           | Stde. | Stdn.                      | cm      | Tag           | Stde. | Stdn.                     | cm   | Tag           | Stde.      | Stdn.                     |
| 1894       | V     | 373*     | 27            | 10a-<br>12a                            | für<br>Wht-<br>Hgn.<br>5  | 396*    | 27            | 3p    | für<br>Hgn.-<br>Rhn.<br>11 | 425*    | 28            | 2a    | für<br>Rhn.-<br>Kl.<br>8  | 364* | 28            | 10a-<br>2p | für<br>Kl.-<br>Gbm.<br>2  |
| 1890       | I     | —        | —             | —                                      | —                         | —       | —             | —     | —                          | —       | —             | —     | —                         | —    | —             | —          | —                         |
| 1891       | IX    | 381*     | 6             | 3p-<br>7p                              | 7                         | 394     | 6             | 10p   | 17                         | 393*    | 7             | 3p    | 10                        | 380* | 8             | 1a-<br>4a  | ?                         |
| 1887       | XII   | —        | —             | —                                      | —                         | —       | —             | —     | —                          | —       | —             | —     | —                         | —    | —             | —          | —                         |
| 1892       | VI    | 408*     | 17            | 3a-<br>8a                              | 7                         | 423     | 17            | 10a   | 18                         | 460     | 18            | 4a    | 8                         | 438* | 18            | 12a-<br>7p | 15                        |
| 1886       | XI    | —        | —             | —                                      | —                         | —       | —             | —     | —                          | —       | —             | —     | —                         | —    | —             | —          | —                         |
| 1890       | IV    | —        | —             | —                                      | —                         | —       | —             | —     | —                          | —       | —             | —     | —                         | —    | —             | —          | —                         |
| 1892       | VII   | 440*     | 22            | 2p                                     | 6                         | 453     | 22            | 8p    | 17                         | 464*    | 23            | 1p    | 10                        | 445* | 23<br>24      | 11p-<br>1a | 3                         |
| 1888       | VI    | —        | —             | —                                      | —                         | —       | —             | —     | —                          | —       | —             | —     | —                         | —    | —             | —          | —                         |
| 1887       | II    | —        | —             | —                                      | —                         | —       | —             | —     | —                          | —       | —             | —     | —                         | —    | —             | —          | —                         |
| 1888       | IX    | 481*     | 3             | 2 <sup>1</sup> / <sub>2</sub> a-<br>5a | 4                         | 502     | 3             | 6a    | 28                         | 485*    | 4             | 10a   | 11                        | 480* | 4<br>5        | 9p-<br>1a  | 9                         |
| 1891       | VII   | —        | —             | —                                      | —                         | —       | —             | —     | —                          | —       | —             | —     | —                         | —    | —             | —          | —                         |
| 1888       | VIII  | —        | —             | —                                      | —                         | —       | —             | —     | —                          | —       | —             | —     | —                         | —    | —             | —          | —                         |
| 1889       | X     | —        | —             | —                                      | —                         | —       | —             | —     | —                          | —       | —             | —     | —                         | —    | —             | —          | —                         |
| 1890       | IX    | 518*     | 2             | 1p-<br>5p                              | 7                         | 552     | 2             | 8p    | 12                         | 554     | 3             | 8a    | 24                        | 555* | 4             | 8a-<br>10a | 5                         |
| 1892       | XII   | —        | —             | —                                      | —                         | —       | —             | —     | —                          | —       | —             | —     | —                         | —    | —             | —          | —                         |
| 1888       | X     | —        | —             | —                                      | —                         | —       | —             | —     | —                          | —       | —             | —     | —                         | —    | —             | —          | —                         |
| 1892       | X     | —        | —             | —                                      | —                         | —       | —             | —     | —                          | —       | —             | —     | —                         | —    | —             | —          | —                         |
| 1889       | VI    | —        | —             | —                                      | —                         | —       | —             | —     | —                          | —       | —             | —     | —                         | —    | —             | —          | —                         |
| 1881       | IX    | 630      | 2             | 12p                                    | 6                         | 749     | 3             | 6a    | 24                         | 607     | 4             | 6a    | 15                        | 662* | 4             | 9p         | 9                         |
| 1888       | X     | —        | —             | —                                      | —                         | —       | —             | —     | —                          | —       | —             | —     | —                         | —    | —             | —          | —                         |
| 1852       | IX    | 634      | 18            | 12a?                                   | (5)                       | 799*    | 18            | 11a   | 28                         | 557*    | 19            | 3p    | —                         | —    | —             | —          | —                         |
| 1887       | XII   | —        | —             | —                                      | —                         | —       | —             | —     | —                          | —       | —             | —     | —                         | —    | —             | —          | —                         |
| 1876       | VI    | 667      | 12            | 12p                                    | 4                         | 789*    | 13            | 4a    | 20                         | 588*    | 13            | 12p   | 30                        | 670  | 15            | 6a-<br>12a | 9                         |
| 1886       | XII   | —        | —             | —                                      | —                         | —       | —             | —     | —                          | —       | —             | —     | —                         | —    | —             | —          | —                         |
| 1887       | VI    | —        | —             | —                                      | —                         | —       | —             | —     | —                          | —       | —             | —     | —                         | —    | —             | —          | —                         |
| 1888       | III   | —        | —             | —                                      | —                         | —       | —             | —     | —                          | —       | —             | —     | —                         | —    | —             | —          | —                         |
| 1887       | III   | —        | —             | —                                      | —                         | —       | —             | —     | —                          | —       | —             | —     | —                         | —    | —             | —          | —                         |
| 1892       | I     | —        | —             | —                                      | —                         | —       | —             | —     | —                          | —       | —             | —     | —                         | —    | —             | —          | —                         |
| 1882       | XI    | —        | —             | —                                      | —                         | —       | —             | —     | —                          | —       | —             | —     | —                         | —    | —             | —          | —                         |

V.

(Fortsetzung von Seite 35.)

| Gamsheim |                     |          | Zeit-<br>unter-<br>schied | Maxau |               |                       | Zeit-<br>unter-<br>schied | Speyer |               |         | Zeit-<br>unter-<br>schied | Mannheim |               |                      | Zeit-<br>unter-<br>schied | Frankenthal         |               |       | Zeit-<br>unter-<br>schied |
|----------|---------------------|----------|---------------------------|-------|---------------|-----------------------|---------------------------|--------|---------------|---------|---------------------------|----------|---------------|----------------------|---------------------------|---------------------|---------------|-------|---------------------------|
| Höhe     | Eintrittszeit       |          |                           | Höhe  | Eintrittszeit |                       |                           | Höhe   | Eintrittszeit |         |                           | Höhe     | Eintrittszeit |                      |                           | Höhe                | Eintrittszeit |       |                           |
| cm       | Tag                 | Stde.    | Stdn.                     | cm    | Tag           | Stde.                 | Stdn.                     | cm     | Tag           | Stde.   | Stdn.                     | cm       | Tag           | Stde.                | Stdn.                     | cm                  | Tag           | Stde. | Stdn.                     |
| 395*     | 28                  | 11 1/2 a | für<br>Gbm.-<br>Mx.<br>17 | 504*  | 29            | 5 a -<br>7 a          | für<br>Mx.-<br>Spr.<br>13 | 507    | 29            | 6 p     | für<br>Spr.-<br>Mhm.<br>9 | 482*     | 30            | 3 a -<br>9 a         | für<br>Mhm.-<br>Fth.<br>— | —                   | —             | —     | —                         |
| —        | —                   | —        | —                         | 506*  | 26            | 1 a                   | 17                        | 508    | 26            | 6 p     | —                         | —        | —             | —                    | —                         | —                   | —             | —     | —                         |
| 406      | für<br>Kl.-Mx.<br>7 | 12 p     | 17                        | 520*  | 8             | 6 p                   | 12                        | 520    | 9             | 6 a     | 8                         | 513*     | 9             | 2 p -<br>5 p         | —                         | —                   | —             | —     | —                         |
| —        | —                   | —        | —                         | 551*  | 13            | 4 a                   | 11                        | 555*   | 13            | 3 p     | 8                         | 548*     | 13            | 11 p                 | ?                         | 553*                | 13            | 9 p   | —                         |
| —        | —                   | —        | —                         | —     | —             | —                     | —                         | —      | —             | —       | —                         | —        | —             | —                    | —                         | —                   | —             | —     | —                         |
| —        | —                   | —        | —                         | —     | —             | —                     | —                         | —      | —             | —       | —                         | —        | —             | —                    | —                         | —                   | —             | —     | —                         |
| 455*     | 24                  | 2 a      | 15                        | 579*  | 24            | 5 p -<br>9 p          | 18                        | 580    | 25            | 11 a    | 3                         | 567*     | 25            | 2 p                  | ?                         | für Mhm.-Mz.<br>561 | 25            | 12 a  | 16                        |
| —        | —                   | —        | —                         | —     | —             | —                     | —                         | —      | —             | —       | —                         | —        | —             | —                    | —                         | —                   | —             | —     | —                         |
| —        | —                   | —        | —                         | —     | —             | —                     | —                         | —      | —             | —       | —                         | —        | —             | —                    | —                         | —                   | —             | —     | —                         |
| 484      | 5                   | 6 a      | 13                        | 600*  | 5             | 7 1/2 p -<br>11 1/2 p | 13                        | 615*   | 6             | 8 1/2 a | 7                         | 616*     | 6             | 3 1/2 p -<br>5 3/4 p | 3                         | 601                 | 6             | 6 p   | 12                        |
| —        | —                   | —        | —                         | —     | —             | —                     | —                         | —      | —             | —       | —                         | —        | —             | —                    | —                         | —                   | —             | —     | —                         |
| —        | —                   | —        | —                         | —     | —             | —                     | —                         | —      | —             | —       | —                         | —        | —             | —                    | —                         | —                   | —             | —     | —                         |
| —        | —                   | —        | —                         | —     | —             | —                     | —                         | —      | —             | —       | —                         | —        | —             | —                    | —                         | —                   | —             | —     | —                         |
| 562*     | 4                   | 1 p      | 23                        | 713*  | 5             | 12 a -<br>6 p         | 21                        | 738*   | 6             | 9 a     | 8                         | 742*     | 6             | 5 p -<br>1 a         | 3                         | 715                 | 6             | 8 p   | 16                        |
| —        | —                   | —        | —                         | —     | —             | —                     | —                         | —      | —             | —       | —                         | —        | —             | —                    | —                         | —                   | —             | —     | —                         |
| —        | —                   | —        | —                         | —     | —             | —                     | —                         | 745    | 8             | 7 a     | 9                         | 744*     | 8             | 4 p                  | 2                         | 717                 | 8             | 6 p   | 24                        |
| —        | —                   | —        | —                         | —     | —             | —                     | —                         | —      | —             | —       | —                         | —        | —             | —                    | —                         | 576                 | 28            | 5 a   | 25                        |
| —        | —                   | —        | —                         | —     | —             | —                     | —                         | —      | —             | —       | —                         | —        | —             | —                    | —                         | 691                 | 18            | 6 a   | 24                        |
| 647      | 5                   | 6 a      | 22                        | 789   | 6             | 4 a                   | 30                        | 815    | 7             | 10 a    | 15                        | 832*     | 8             | 1 a                  | 0                         | 783                 | 8             | 1 a   | —                         |
| —        | —                   | —        | —                         | —     | —             | —                     | —                         | —      | —             | —       | —                         | —        | —             | —                    | —                         | —                   | —             | —     | —                         |
| 607*     | 20                  | 1 p      | 23                        | 798   | 21            | 12 a                  | 30                        | 845    | 22            | 6 p     | 18                        | 856      | 23            | 12 a                 | 6                         | 810                 | 23            | 6 p   | 36                        |
| —        | —                   | —        | —                         | —     | —             | —                     | —                         | —      | —             | —       | —                         | —        | —             | —                    | —                         | —                   | —             | —     | —                         |
| 647*     | 15                  | 3 p      | 21                        | 795   | 16            | 12 a -<br>12 p        | 34                        | 835    | 17            | 10 p    | 8                         | 868      | 18            | 6 a                  | 0                         | 827                 | 18            | 6 a   | 42                        |
| —        | —                   | —        | —                         | —     | —             | —                     | —                         | —      | —             | —       | —                         | —        | —             | —                    | —                         | —                   | —             | —     | —                         |
| —        | —                   | —        | —                         | —     | —             | —                     | —                         | —      | —             | —       | —                         | —        | —             | —                    | —                         | 712                 | 7             | 4 a   | 18                        |
| —        | —                   | —        | —                         | —     | —             | —                     | —                         | —      | —             | —       | —                         | —        | —             | —                    | —                         | —                   | —             | —     | —                         |
| —        | —                   | —        | —                         | —     | —             | —                     | —                         | —      | —             | —       | —                         | —        | —             | —                    | —                         | —                   | —             | —     | —                         |

(Fortsetzung auf Seite 38.)

| Beobachtet |       | Zeit-<br>unter-<br>schied | Mainz |               |       | Zeit-<br>unter-<br>schied | Bingen |               |       | Zeit-<br>unter-<br>schied | Caub |               |               | Zeit-<br>unter-<br>schied | Andernach |               |       |
|------------|-------|---------------------------|-------|---------------|-------|---------------------------|--------|---------------|-------|---------------------------|------|---------------|---------------|---------------------------|-----------|---------------|-------|
| Jahr       | Monat |                           | Höhe  | Eintrittszeit |       |                           | Höhe   | Eintrittszeit |       |                           | Höhe | Eintrittszeit |               |                           | Höhe      | Eintrittszeit |       |
|            |       | Std.                      | cm    | Tag           | Stde. | Std.                      | cm     | Tag           | Stde. | Std.                      | cm   | Tag           | Stde.         | Std.                      | cm        | Tag           | Stde. |
|            |       | für<br>Fth.-<br>Mz.       |       |               |       | für<br>Mz.-<br>Bgn.       |        |               |       | für<br>Bgn.-<br>Cb.       |      |               |               | für<br>Cb.-<br>And.       |           |               |       |
| 1894       | V     | —                         | —     | —             | —     | —                         | —      | —             | —     | —                         | —    | —             | —             | —                         | —         | —             | —     |
| 1890       | I     | —                         | —     | —             | —     | —                         | —      | —             | —     | —                         | —    | —             | —             | —                         | —         | —             | —     |
| 1891       | IX    | —                         | —     | —             | —     | —                         | —      | —             | —     | —                         | —    | —             | —             | —                         | —         | —             | —     |
| 1887       | XII   | —                         | —     | —             | —     | —                         | —      | —             | —     | —                         | —    | —             | —             | —                         | —         | —             | —     |
| 1892       | VI    | —                         | —     | —             | —     | —                         | —      | —             | —     | —                         | —    | —             | —             | —                         | —         | —             | —     |
| 1886       | XI    | —                         | —     | —             | —     | —                         | —      | —             | —     | —                         | —    | —             | —             | —                         | —         | —             | —     |
| 1890       | IV    | —                         | —     | —             | —     | —                         | —      | —             | —     | —                         | —    | —             | —             | —                         | —         | —             | —     |
| 1892       | VII   | 16                        | 244   | 26            | 6 a   | 4                         | 283    | 26            | 10 a  | 2                         | 326  | 26            | 12 a          | —                         | —         | —             | —     |
| 1888       | VI    | —                         | —     | —             | —     | —                         | —      | —             | —     | —                         | —    | —             | —             | —                         | —         | —             | —     |
| 1887       | II    | —                         | —     | —             | —     | —                         | —      | —             | —     | —                         | —    | —             | —             | —                         | —         | —             | —     |
| 1888       | IX    | 12                        | 273   | 7             | 6 a   | 4                         | 309    | 7             | 10 a  | 8                         | 358  | 7             | 6 p           | 0                         | 402       | 7             | 6 p   |
| 1891       | VII   | —                         | 339   | 12            | 6 p   | 0                         | 304    | 12            | 6 p   | 0                         | 440  | 12            | 6 p           | —                         | —         | —             | —     |
| 1888       | VIII  | —                         | 368   | 8             | 8 p   | 6                         | 395    | 9             | 2 a   | 4                         | 473  | 9             | 6 a           | —                         | —         | —             | —     |
| 1889       | X     | —                         | —     | —             | —     | —                         | —      | —             | —     | —                         | —    | —             | —             | —                         | 413       | 17            | 12 p  |
| 1890       | IX    | 16                        | 355   | 7             | 12 a  | ?                         | 386    | 7             | 10 a  | 6                         | 467  | 7             | 6 p           | 4                         | 496*      | 7             | 10 p  |
| 1892       | XII   | —                         | —     | —             | —     | —                         | —      | —             | —     | —                         | —    | —             | —             | —                         | —         | —             | —     |
| 1888       | X     | 24                        | 360   | 9             | 6 p   | 0                         | 389    | 9             | 6 p   | 6                         | 466  | 9             | 12 p          | —                         | —         | —             | —     |
| 1892       | X     | 25                        | 256   | 29            | 6 a   | —                         | —      | —             | —     | —                         | —    | —             | —             | —                         | 525       | 29            | 6 p   |
| 1889       | VI    | 24                        | 338   | 19            | 6 a   | 0                         | 373    | 19            | 6 a   | 6                         | 443  | 19            | 12 a          | ?                         | 543*      | 19            | 8 a   |
| 1881       | IX    | —                         | —     | —             | —     | —                         | —      | —             | —     | —                         | —    | —             | —             | —                         | —         | —             | —     |
| 1888       | X     | —                         | —     | —             | —     | —                         | —      | —             | —     | —                         | —    | —             | —             | —                         | —         | —             | —     |
| 1852       | IX    | 36                        | 375   | 25            | 6 a   | 1                         | 425    | 25            | 7 a   | —                         | —    | —             | für Bgn.-And. | 5                         | 555       | 25            | 12 a  |
| 1887       | XII   | —                         | —     | —             | —     | —                         | —      | —             | —     | —                         | —    | —             | —             | —                         | —         | —             | —     |
| 1876       | VI    | 42                        | 415   | 19            | 12 p  | 12                        | 458    | 20            | 12 a  | —                         | —    | —             | für Bgn.-And. | 0                         | 566       | 20            | 12 a  |
| 1886       | XII   | —                         | —     | —             | —     | —                         | —      | —             | —     | —                         | —    | —             | —             | —                         | —         | —             | —     |
| 1887       | VI    | 18                        | 357   | 7             | 10 p  | —                         | —      | —             | —     | —                         | —    | —             | —             | —                         | 635*      | 7             | 4 a   |
| 1888       | III   | —                         | —     | —             | —     | —                         | —      | —             | —     | —                         | —    | —             | —             | —                         | 716*      | 14            | 2 a   |
| 1887       | III   | —                         | —     | —             | —     | —                         | —      | —             | —     | —                         | —    | —             | —             | —                         | —         | —             | —     |
| 1892       | I     | —                         | —     | —             | —     | —                         | —      | —             | —     | —                         | —    | —             | —             | —                         | 696*      | 3             | 10 a  |
| 1882       | XI    | —                         | —     | —             | —     | —                         | —      | —             | —     | —                         | —    | —             | —             | —                         | 1040*     | 28            | 4 p   |

(Fortsetzung von Seite 37.)

