$A_{Eo}$ : 296 km²
PNP : NN + 230.00 m nS
Lage: 1.8 km oberhalb der Mündung links

# Q

m³/s

Pegel : Zittau 5 Nr. 662021
Gewässer : Mandau
Gebiet : Lausitzer Neiße

## Tageswerte

| Tag | 2010 Nov | 2010 Dez | 2011 Jan | 2011 Feb | 2011 Mrz | 2011 Apr | 2011 Mai | 2011 Jun | 2011 Jul | 2011 Aug | 2011 Sep | 2011 Okt | 2011 Nov | 2011 Dez |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. | 1.75 | 3.02 | R 3.25 | R 2.44 | 2.12 | 2.03 | 1.18 | 2.09 | 0.753 | 4.46 | 1.41 | 0.921 | 0.839 | 0.665 |
| 2. | 1.75 | 2.72 | 3.14 | R 2.45 | 2.09 | 1.92 | 1.23 | 1.03 | 0.721 | 3.31 | 1.31 | 0.902 | 0.839 | 0.683 |
| 3. | 1.75 | R 2.77 | 3.03 | R 2.73 | 2.16 | 1.93 | 3.22 | 0.929 | 2.02 | 2.66 | 1.28 | 0.902 | 0.839 | 0.730 |
| 4. | 2.01 | R 2.43 | 2.93 | 2.90 | 1.82 | 2.23 | 2.67 | 0.840 | 2.59 | 2.34 | 1.10 | 0.902 | 0.839 | 1.07 |
| 5. | 1.89 | R 2.48 | 2.81 | 11.7 | 1.80 | 2.05 | 2.13 | 0.829 | 1.90 | 2.22 | 2.13 | 0.876 | 0.839 | 2.50 |
| 6. | 1.92 | 2.81 | 2.61 | 10.1 | 1.78 | 1.79 | 1.74 | 0.992 | 1.24 | 2.07 | 2.37 | 0.825 | 0.839 | 1.67 |
| 7. | 2.97 | 2.79 | 4.78 | 6.91 | 1.71 | 1.75 | 1.50 | 1.23 | 1.02 | 2.02 | 1.60 | 0.821 | 0.839 | 1.33 |
| 8. | 7.91 | 3.91 | 21.3 | 5.36 | 1.78 | 1.62 | 1.37 | 0.980 | 1.13 | 2.70 | 1.69 | 0.966 | 0.839 | 2.46 |
| 9. | 4.55 | 9.60 | 24.1 | 4.48 | 1.88 | 1.57 | 1.27 | 1.27 | 0.910 | 2.16 | 1.91 | 1.01 | 0.800 | 4.03 |
| 10. | 3.29 | 5.42 | 17.0 | 3.98 | 2.17 | 1.52 | 1.25 | 0.888 | 0.873 | 1.90 | 1.66 | 1.03 | 0.779 | 3.00 |
| 11. | 2.80 | 8.03 | 10.5 | 5.99 | 2.35 | 1.45 | 1.18 | 0.811 | 1.23 | 1.77 | 1.42 | 1.70 | 0.751 | 1.90 |
| 12. | 2.94 | 20.8 | 10.8 | 6.50 | 2.08 | 1.50 | 1.22 | 0.980 | 0.916 | 1.62 | 1.38 | 2.31 | 0.721 | 1.61 |
| 13. | 4.47 | 9.98 | 18.0 | 4.62 | 1.89 | 1.93 | 1.22 | 0.865 | 0.828 | 2.02 | 1.15 | 1.81 | 0.721 | 1.51 |
| 14. | 3.40 | 7.00 | 44.5 | 4.10 | 1.96 | 3.59 | 1.15 | 0.865 | 1.44 | 1.84 | 1.08 | 1.43 | 0.721 | 1.52 |
| 15. | 2.88 | 5.98 | 33.3 | 3.77 | 2.03 | 2.79 | 1.44 | 1.06 | 0.997 | 2.78 | 1.01 | 1.41 | 0.721 | 1.47 |
| 16. | 4.32 | 5.11 | 20.6 | 3.36 | 2.05 | 2.21 | 1.32 | 0.865 | 0.893 | 2.54 | 0.967 | 1.34 | 0.721 | 3.13 |
| 17. | 6.39 | 4.87 | 13.7 | 3.25 | 3.65 | 2.01 | 1.18 | 0.878 | 0.811 | 1.84 | 0.967 | 1.25 | 0.721 | 6.56 |
| 18. | 5.46 | R 4.27 | 10.4 | 3.13 | 13.1 | 1.90 | 1.15 | 1.00 | 1.15 | 1.50 | 1.38 | 1.25 | 0.721 | 3.82 |
| 19. | 4.99 | R 3.88 | 9.69 | 2.93 | 7.74 | 1.80 | 1.08 | 0.899 | 0.873 | 2.91 | 2.75 | 1.37 | 0.721 | 2.55 |
| 20. | 4.04 | R 3.90 | 8.42 | R 2.70 | 4.64 | 1.67 | 1.10 | 1.11 | 6.59 | 2.67 | 1.65 | 1.36 | 0.721 | 2.08 |
| 21. | 3.61 | 3.52 | 6.95 | R 2.21 | 3.66 | 1.58 | 1.04 | 0.936 | 26.8 | 1.76 | 1.49 | 1.28 | 0.721 | 2.03 |
| 22. | 14.1 | 3.43 | 5.97 | R 1.93 | 3.17 | 1.43 | 1.04 | 1.56 | 21.2 | 1.48 | 1.39 | 1.19 | 0.721 | 2.12 |
| 23. | 10.8 | 6.14 | 5.32 | R 1.76 | 2.88 | 1.35 | 0.994 | 1.63 | 7.95 | 1.33 | 1.30 | 1.18 | 0.721 | 2.55 |
| 24. | 8.61 | 8.85 | 4.96 | R 1.72 | 2.66 | 1.32 | 0.967 | 1.06 | 4.17 | 1.23 | 1.25 | 1.10 | 0.721 | 4.80 |
| 25. | 6.40 | 6.62 | 4.75 | R 1.61 | 2.51 | 1.27 | 0.910 | 0.927 | 3.10 | 8.17 | 1.20 | 1.01 | 0.721 | 5.43 |
| 26. | 5.30 | 5.18 | 4.65 | R 1.71 | 2.56 | 1.43 | 0.929 | 0.936 | 2.59 | 2.12 | 1.16 | 0.979 | 0.721 | 4.02 |
| 27. | 4.63 | 4.50 | 4.36 | R 1.94 | 2.40 | 1.43 | 1.10 | 0.953 | 2.30 | 1.96 | 1.10 | 1.10 | 0.721 | 3.53 |
| 28. | 4.03 | 4.18 | 3.96 | R 2.09 | 2.24 | 1.33 | 0.938 | 0.804 | 2.00 | 2.63 | 0.973 | 0.960 | 0.721 | 2.99 |
| 29. | 3.88 | 3.74 | R 3.23 | | 2.07 | 1.29 | 0.902 | 0.745 | 1.86 | 1.83 | 0.967 | 0.857 | 0.721 | 2.61 |
| 30. | 3.52 | R 3.18 | R 2.85 | | 2.03 | 1.25 | 0.843 | 0.755 | 3.43 | 1.56 | 0.967 | 0.839 | 0.697 | 3.08 |
| 31. | | R 3.23 | R 2.50 | | 2.01 | | 0.819 | | 7.52 | 1.49 | | 0.839 | | 3.42 |

## Hauptwerte

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tag | 1.+ | 4. | 31. | 25. | 7. | 30. | 31. | 29. | 2. | 24. | 16.+ | 7. | 30. | 1. |
| NQ | 1.75 | 2.43 | 2.50 | 1.61 | 1.71 | 1.25 | 0.819 | 0.745 | 0.721 | 1.23 | 0.967 | 0.821 | 0.697 | 0.665 |
| MQ | 4.55 | 5.30 | 10.1 | 3.87 | 2.87 | 1.76 | 1.29 | 1.02 | 3.61 | 2.35 | 1.40 | 1.15 | 0.757 | 2.61 |
| HQ | 25.5 | 25.5 | 59.3 | 16.9 | 17.2 | 3.91 | 4.19 | 6.44 | 57.1 | 35.1 | 3.91 | 2.55 | 0.839 | 8.36 |
| Tag | 22. | 12. | 14. | 5. | 18. | 14. | 3. | 1. | 21. | 25. | 5. | 12. | 1.+ | 16.+ |
| $h_N$ mm / $h_A$ mm | 40 | 48 | 91 | 32 | 26 | 15 | 12 | 9 | 33 | 21 | 12 | 10 | 7 | 24 |

| | 1912/2010 | | 1913/2011 60 Jahre | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Jahr | 1929 | 1933 | 1932 | 1930 | 1930 | 1918 | 1934 | 1934 | 1934 | 1934 | 1914 | 1917 + | 1929 | 1933 |
| NQ | 0.150 | 0.100 | 0.110 | 0.260 | 0.150 | 0.300 | 0.200 | 0.080 | 0.060 | 0.100 | 0.150 | 0.230 | 0.150 | 0.100 |
| MNQ | 1.06 | 1.31 | 1.62 | 1.80 | 2.16 | 1.73 | 1.03 | 0.816 | 0.670 | 0.628 | 0.782 | 0.822 | 1.06 | 1.31 |
| MQ | 2.55 | 4.00 | 5.09 | 4.46 | 5.73 | 3.72 | 2.18 | 2.01 | 1.91 | 1.75 | 1.60 | 1.82 | 2.59 | 3.92 |
| MHQ | 13.4 | 23.5 | 33.5 | 24.7 | 30.6 | 16.7 | 14.0 | 16.2 | 17.6 | 18.1 | 10.3 | 10.8 | 13.7 | 23.2 |
| HQ | 85.8 | 166 | 107 | 75.7 | 108 | 134 | 72.3 | 169 | 221 | 300 | 90.9 | 131 | 85.8 | 166 |
| Jahr | 1998 | 1986 | 1982 | 1935 | 1981 | 1917 | 2010 | 1995 | 1981 | 2010 | 2010 | 1930 | 1998 | 1986 |

| | 1912/2010 | | 1913/2011 60 Jahre | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $Mh_N$ mm / $Mh_A$ mm | 22 | 36 | 46 | 36 | 52 | 33 | 20 | 18 | 17 | 16 | 14 | 16 | 23 | 35 |

| | Abflussjahr (*) 2011 Jahr | Datum | Winter | Sommer | Kalenderjahr 2011 Jahr | Datum |
|---|---|---|---|---|---|---|
| NQ m³/s | 0.721 | am 02.07.2011 | 1.25 | 0.721 | 0.665 | am 01.12.2011 |
| MQ m³/s | 3.28 | | 4.78 | 1.81 | 2.74 | |
| HQ m³/s | 59.3 | am 14.01.2011 bei W= 220 cm | 59.3 | 57.1 | 59.3 | am 14.01.2011 bei W= 220 cm |
| Nq l/(s km²) | 2.44 | | 4.23 | 2.44 | 2.25 | |
| Mq l/(s km²) | 11.1 | | 16.2 | 6.13 | 9.28 | |
| Hq l/(s km²) | 201 | | 201 | 193 | 201 | |
| $h_N$ mm / $h_A$ mm | 350 | | 253 | 97 | 293 | |
| | 1913/2011 (*) 64 Jahre | | | | 1913/2011 | |
| NQ m³/s | 0.060 | am 10.07.1934 | 0.100 | 0.060 | 0.060 | am 10.07.1934 |
| MNQ m³/s | 0.449 | | 0.870 | 0.464 | 0.446 | |
| MQ m³/s | 3.06 | | 4.25 | 1.90 | 3.06 | |
| MHQ m³/s | 73.5 | | 57.4 | 44.3 | 74.9 | |
| HQ m³/s | 300 | am 07.08.2010 bei W= 473 cm | 166 | 300 | 300 | am 07.08.2010 bei W= 473 cm |
| $HQ_1$ m³/s | | | | | | |
| $HQ_5$ m³/s | | | | | | |
| MNq l/(s km²) | 1.52 | | 2.94 | 1.57 | 1.51 | |
| Mq l/(s km²) | 10.3 | | 14.4 | 6.43 | 10.3 | |
| MHq l/(s km²) | 249 | | 194 | 150 | 253 | |
| | 1913/2011 (*) 64 Jahre | | | | 1913/2011 | |
| $Mh_N$ mm / $Mh_A$ mm | 326 | | 225 | 102 | 326 | |

## Extremwerte

| | Niedrigwasser m³/s | l/(s km²) | Datum | Hochwasser m³/s | l/(s km²) | cm | Datum |
|---|---|---|---|---|---|---|---|
| 1 | 0.060 | 0.203 | 10.07.1934 | 407 | 1380 | | 15.05.1887 |
| 2 | 0.110 | 0.372 | 10.08.1930 | 300 | 1010 | 473 | 07.08.2010 |
| 3 | 0.130 | 0.440 | 02.01.1936 | 221 | 747 | | 20.07.1981 |
| 4 | 0.150 | 0.507 | 05.09.1914 | 169 | 572 | | 13.06.1995 |
| 5 | 0.169 | 0.572 | 11.07.2006 | 166 | 561 | | 29.12.1986 |
| 6 | 0.169 | 0.572 | 23.09.2003 | 134 | 453 | | 16.04.1917 |
| 7 | 0.180 | 0.609 | 18.07.1976 | 131 | 443 | | 27.10.1930 |
| 8 | 0.180 | 0.609 | 07.08.1921 | 120 | 406 | | 15.06.1926 |
| 9 | 0.340 | 1.15 | 02.07.2008 | 108 | 365 | | 12.03.1981 |
| 10 | 0.389 | 1.32 | 28.06.2005 | 107 | 362 | | 30.01.1982 |

## Dauertabelle

| Unter schreitungs dauer in Tagen | Unterschrittene Abflüsse m³/s: Abfluss-jahr (*) 2011 | Kalender jahr 2011 | 1913/2011 60 Kalenderjahre Obere Hüllwerte | Mittlere Werte | Untere Hüllwerte |
|---|---|---|---|---|---|
| (365) | | | | | |
| 364 | 44.5 | 44.5 | 161 | 36.1 | 8.20 |
| 363 | 33.3 | 33.3 | 69.1 | 28.4 | 6.68 |
| 362 | 26.8 | 26.8 | 59.5 | 24.6 | 6.68 |
| 361 | 24.1 | 24.1 | 53.4 | 21.5 | 6.52 |
| 360 | 21.3 | 21.3 | 52.8 | 19.4 | 6.28 |
| 359 | 21.2 | 21.2 | 47.2 | 17.9 | 5.75 |
| 358 | 20.8 | 20.6 | 44.7 | 16.8 | 5.60 |
| 357 | 20.6 | 18.0 | 43.4 | 15.6 | 5.15 |
| 356 | 18.0 | 17.0 | 41.9 | 14.6 | 5.00 |
| 350 | 11.7 | 10.4 | 25.2 | 11.1 | 3.65 |
| 340 | 8.42 | 6.59 | 18.0 | 8.36 | 2.66 |
| 330 | 6.62 | 4.78 | 13.6 | 6.81 | 2.26 |
| 320 | 5.42 | 4.03 | 10.8 | 5.82 | 2.06 |
| 300 | 4.36 | 3.14 | 9.58 | 4.38 | 1.67 |
| 270 | 3.25 | 2.56 | 8.02 | 3.21 | 1.29 |
| 240 | 2.70 | 2.09 | 6.75 | 2.47 | 0.920 |
| 210 | 2.16 | 1.88 | 5.36 | 1.97 | 0.590 |
| 183 | 1.94 | 1.63 | 4.45 | 1.67 | 0.520 |
| 150 | 1.70 | 1.37 | 3.50 | 1.36 | 0.420 |
| 130 | 1.48 | 1.27 | 3.34 | 1.19 | 0.370 |
| 120 | 1.41 | 1.19 | 3.25 | 1.09 | 0.370 |
| 110 | 1.33 | 1.13 | 3.18 | 1.01 | 0.330 |
| 100 | 1.27 | 1.07 | 3.02 | 0.921 | 0.330 |
| 90 | 1.23 | 1.01 | 2.86 | 0.876 | 0.330 |
| 80 | 1.16 | 0.973 | 2.67 | 0.795 | 0.290 |
| 70 | 1.11 | 0.936 | 2.53 | 0.731 | 0.290 |
| 60 | 1.02 | 0.902 | 2.40 | 0.683 | 0.260 |
| 50 | 0.979 | 0.865 | 2.00 | 0.627 | 0.230 |
| 40 | 0.938 | 0.840 | 1.74 | 0.571 | 0.230 |
| 30 | 0.910 | 0.811 | 1.74 | 0.506 | 0.200 |
| 25 | 0.893 | 0.753 | 1.74 | 0.482 | 0.170 |
| 20 | 0.873 | 0.730 | 1.62 | 0.433 | 0.140 |
| 15 | 0.843 | 0.730 | 1.45 | 0.401 | 0.140 |
| 10 | 0.828 | 0.730 | 1.45 | 0.340 | 0.120 |
| 9 | 0.825 | 0.730 | 1.42 | 0.330 | 0.120 |
| 8 | 0.821 | 0.730 | 1.42 | 0.330 | 0.120 |
| 7 | 0.819 | 0.730 | 1.42 | 0.310 | 0.120 |
| 6 | 0.819 | 0.730 | 1.42 | 0.300 | 0.110 |
| 5 | 0.811 | 0.730 | 1.31 | 0.280 | 0.110 |
| 4 | 0.804 | 0.730 | 1.31 | 0.250 | 0.100 |
| 3 | 0.755 | 0.721 | 1.31 | 0.230 | 0.100 |
| 2 | 0.753 | 0.697 | 1.27 | 0.205 | 0.100 |
| 1 | 0.745 | 0.683 | 1.27 | 0.169 | 0.080 |
| 0 | 0.721 | 0.665 | 1.19 | 0.060 | 0.060 |

(*) Abflussjahr: 1.11. des Vorjahres bis 31.10. Ausfalljahre: KJ 1922-1923 ,1937-1971 ,1974-1975; AJ 1923 ,1975; AJ 1938-1965 ,1967-1971

Umflut durch Hospitalmühlgraben mit Zittau 3 erfasst

Sächsisches Landesamt für Umwelt, Landwirtschaft und Geologie