



Ermittlung des Fremdwasseranteils

nach der Methode des Gleitenden Minimums (ATV-DVWK)

Eingesetzte Daten:

Jahr:

2019

Anzahl der gültigen Werte der täglichen Abflussmenge (Q_d -Werte):

365

jährlicher Schmutzwasserabfluss ($Q_{S,a}$):

125.407 m³/a

Ergebnis:

Anzahl der Trockenwettertage (TW-Tage):

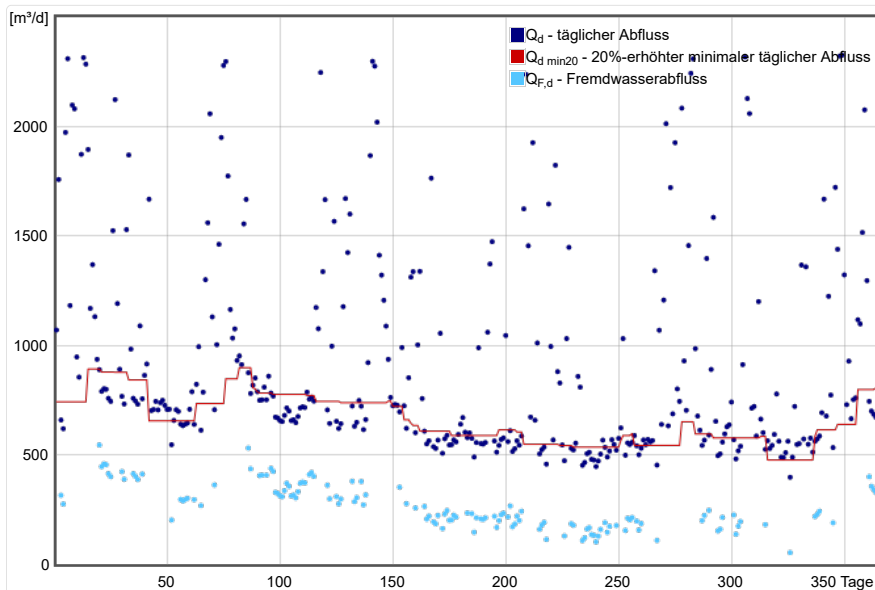
141

geschätzter jährlicher Fremdwasserabfluss ($Q_{F,a}$):

97.023 m³/a

ermittelter Fremdwasseranteil:

44 %



Einzelwerte



| Tag | Q_d | $Q_{d \text{ min}}$ | $Q_{d \text{ min}20}$ | $Q_{F,d}$ | Wertebereich |
|-----|-------|---------------------|-----------------------|-----------|--|
| 1 | 1070 | 619 | 742 | | [1070, 1758, 659, 619, 1973, 2310, 1182, 2098, 2081, 947, 855] |
| 2 | 1758 | 619 | 742 | | [1070, 1758, 659, 619, 1973, 2310, 1182, 2098, 2081, 947, 855, 1873] |
| 3 | 659 | 619 | 742 | 315 | [1070, 1758, 659, 619, 1973, 2310, 1182, 2098, 2081, 947, 855, 1873, 2315] |

| Tag | Q _d | Q _d min | Q _d min20 | Q _{F,d} | Wertebereich |
|-----|----------------|--------------------|----------------------|------------------|---|
| 4 | 619 | 619 | 742 | 275 | [1070, 1758, 659, 619, 1973, 2310, 1182, 2098, 2081, 947, 855, 1873, 2315, 2285] |
| 5 | 1973 | 619 | 742 | | [1070, 1758, 659, 619, 1973, 2310, 1182, 2098, 2081, 947, 855, 1873, 2315, 2285, 1895] |
| 6 | 2310 | 619 | 742 | | [1070, 1758, 659, 619, 1973, 2310, 1182, 2098, 2081, 947, 855, 1873, 2315, 2285, 1895, 1169] |
| 7 | 1182 | 619 | 742 | | [1070, 1758, 659, 619, 1973, 2310, 1182, 2098, 2081, 947, 855, 1873, 2315, 2285, 1895, 1169, 1369] |
| 8 | 2098 | 619 | 742 | | [1070, 1758, 659, 619, 1973, 2310, 1182, 2098, 2081, 947, 855, 1873, 2315, 2285, 1895, 1169, 1369, 1131] |
| 9 | 2081 | 619 | 742 | | [1070, 1758, 659, 619, 1973, 2310, 1182, 2098, 2081, 947, 855, 1873, 2315, 2285, 1895, 1169, 1369, 1131, 936] |
| 10 | 947 | 619 | 742 | | [1070, 1758, 659, 619, 1973, 2310, 1182, 2098, 2081, 947, 855, 1873, 2315, 2285, 1895, 1169, 1369, 1131, 936, 889] |
| 11 | 855 | 619 | 742 | | [1070, 1758, 659, 619, 1973, 2310, 1182, 2098, 2081, 947, 855, 1873, 2315, 2285, 1895, 1169, 1369, 1131, 936, 889, 790] |
| 12 | 1873 | 619 | 742 | | [1758, 659, 619, 1973, 2310, 1182, 2098, 2081, 947, 855, 1873, 2315, 2285, 1895, 1169, 1369, 1131, 936, 889, 790, 802] |
| 13 | 2315 | 619 | 742 | | [659, 619, 1973, 2310, 1182, 2098, 2081, 947, 855, 1873, 2315, 2285, 1895, 1169, 1369, 1131, 936, 889, 790, 802, 799] |
| 14 | 2285 | 619 | 742 | | [619, 1973, 2310, 1182, 2098, 2081, 947, 855, 1873, 2315, 2285, 1895, 1169, 1369, 1131, 936, 889, 790, 802, 799, 758] |
| 15 | 1895 | 744 | 892 | | [1973, 2310, 1182, 2098, 2081, 947, 855, 1873, 2315, 2285, 1895, 1169, 1369, 1131, 936, 889, 790, 802, 799, 758, 744] |
| 16 | 1169 | 744 | 892 | | [2310, 1182, 2098, 2081, 947, 855, 1873, 2315, 2285, 1895, 1169, 1369, 1131, 936, 889, 790, 802, 799, 758, 744, 1524] |
| 17 | 1369 | 744 | 892 | | [1182, 2098, 2081, 947, 855, 1873, 2315, 2285, 1895, 1169, 1369, 1131, 936, 889, 790, 802, 799, 758, 744, 1524, 2123] |
| 18 | 1131 | 744 | 892 | | [2098, 2081, 947, 855, 1873, 2315, 2285, 1895, 1169, 1369, 1131, 936, 889, 790, 802, 799, 758, 744, 1524, 2123, 1191] |
| 19 | 936 | 744 | 892 | | [2081, 947, 855, 1873, 2315, 2285, 1895, 1169, 1369, 1131, 936, 889, 790, 802, 799, 758, 744, 1524, 2123, 1191, 891] |
| 20 | 889 | 744 | 892 | 545 | [947, 855, 1873, 2315, 2285, 1895, 1169, 1369, 1131, 936, 889, 790, 802, 799, 758, 744, 1524, 2123, 1191, 891, 767] |
| 21 | 790 | 732 | 878 | 446 | [855, 1873, 2315, 2285, 1895, 1169, 1369, 1131, 936, 889, 790, 802, 799, 758, 744, 1524, 2123, 1191, 891, 767, 732] |
| 22 | 802 | 732 | 878 | 458 | [1873, 2315, 2285, 1895, 1169, 1369, 1131, 936, 889, 790, 802, 799, 758, 744, 1524, 2123, 1191, 891, 767, 732, 1529] |
| 23 | 799 | 732 | 878 | 455 | [2315, 2285, 1895, 1169, 1369, 1131, 936, 889, 790, 802, 799, 758, 744, 1524, 2123, 1191, 891, 767, 732, 1529, 1870] |
| 24 | 758 | 732 | 878 | 414 | [2285, 1895, 1169, 1369, 1131, 936, 889, 790, 802, 799, 758, 744, 1524, 2123, 1191, 891, 767, 732, 1529, 1870, 983] |
| 25 | 744 | 732 | 878 | 400 | [1895, 1169, 1369, 1131, 936, 889, 790, 802, 799, 758, 744, 1524, 2123, 1191, 891, 767, 732, 1529, 1870, 983, 758] |
| 26 | 1524 | 732 | 878 | | [1169, 1369, 1131, 936, 889, 790, 802, 799, 758, 744, 1524, 2123, 1191, 891, 767, 732, 1529, 1870, 983, 758, 745] |
| 27 | 2123 | 731 | 877 | | [1369, 1131, 936, 889, 790, 802, 799, 758, 744, 1524, 2123, 1191, 891, 767, 732, 1529, 1870, 983, 758, 745, 731] |
| 28 | 1191 | 731 | 877 | | [1131, 936, 889, 790, 802, 799, 758, 744, 1524, 2123, 1191, 891, 767, 732, 1529, 1870, 983, 758, 745, 731, 1089] |
| 29 | 891 | 731 | 877 | | [936, 889, 790, 802, 799, 758, 744, 1524, 2123, 1191, 891, 767, 732, 1529, 1870, 983, 758, 745, 731, 1089, 756] |
| 30 | 767 | 731 | 877 | 423 | [889, 790, 802, 799, 758, 744, 1524, 2123, 1191, 891, 767, 732, 1529, 1870, 983, 758, 745, 731, 1089, 756, 863] |
| 31 | 732 | 731 | 877 | 388 | [790, 802, 799, 758, 744, 1524, 2123, 1191, 891, 767, 732, 1529, 1870, 983, 758, 745, 731, 1089, 756, 863, 915] |
| 32 | 1529 | 731 | 877 | | [802, 799, 758, 744, 1524, 2123, 1191, 891, 767, 732, 1529, 1870, 983, 758, 745, 731, 1089, 756, 863, 915, 1668] |
| 33 | 1870 | 702 | 842 | | [799, 758, 744, 1524, 2123, 1191, 891, 767, 732, 1529, 1870, 983, 758, 745, 731, 1089, 756, 863, 915, 1668, 702] |
| 34 | 983 | 702 | 842 | | [758, 744, 1524, 2123, 1191, 891, 767, 732, 1529, 1870, 983, 758, 745, 731, 1089, 756, 863, 915, 1668, 702, 707] |
| 35 | 758 | 702 | 842 | 414 | [744, 1524, 2123, 1191, 891, 767, 732, 1529, 1870, 983, 758, 745, 731, 1089, 756, 863, 915, 1668, 702, 707, 744] |
| 36 | 745 | 702 | 842 | 401 | [1524, 2123, 1191, 891, 767, 732, 1529, 1870, 983, 758, 745, 731, 1089, 756, 863, 915, 1668, 702, 707, 744, 705] |
| 37 | 731 | 702 | 842 | 387 | [2123, 1191, 891, 767, 732, 1529, 1870, 983, 758, 745, 731, 1089, 756, 863, 915, 1668, 702, 707, 744, 705, 738] |
| 38 | 1089 | 702 | 842 | | [1191, 891, 767, 732, 1529, 1870, 983, 758, 745, 731, 1089, 756, 863, 915, 1668, 702, 707, 744, 705, 738, 749] |
| 39 | 756 | 702 | 842 | 412 | [891, 767, 732, 1529, 1870, 983, 758, 745, 731, 1089, 756, 863, 915, 1668, 702, 707, 744, 705, 738, 749, 726] |
| 40 | 863 | 702 | 842 | | [767, 732, 1529, 1870, 983, 758, 745, 731, 1089, 756, 863, 915, 1668, 702, 707, 744, 705, 738, 749, 726, 707] |
| 41 | 915 | 702 | 842 | | [732, 1529, 1870, 983, 758, 745, 731, 1089, 756, 863, 915, 1668, 702, 707, 744, 705, 738, 749, 726, 707, 708] |
| 42 | 1668 | 546 | 655 | | [1529, 1870, 983, 758, 745, 731, 1089, 756, 863, 915, 1668, 702, 707, 744, 705, 738, 749, 726, 707, 708, 546] |
| 43 | 702 | 546 | 655 | | [1870, 983, 758, 745, 731, 1089, 756, 863, 915, 1668, 702, 707, 744, 705, 738, 749, 726, 707, 708, 546, 657] |
| 44 | 707 | 546 | 655 | | [983, 758, 745, 731, 1089, 756, 863, 915, 1668, 702, 707, 744, 705, 738, 749, 726, 707, 708, 546, 657, 706] |
| 45 | 744 | 546 | 655 | | [758, 745, 731, 1089, 756, 863, 915, 1668, 702, 707, 744, 705, 738, 749, 726, 707, 708, 546, 657, 706, 698] |
| 46 | 705 | 546 | 655 | | [745, 731, 1089, 756, 863, 915, 1668, 702, 707, 744, 705, 738, 749, 726, 707, 708, 546, 657, 706, 698, 640] |
| 47 | 738 | 546 | 655 | | [731, 1089, 756, 863, 915, 1668, 702, 707, 744, 705, 738, 749, 726, 707, 708, 546, 657, 706, 698, 640, 633] |
| 48 | 749 | 546 | 655 | | [1089, 756, 863, 915, 1668, 702, 707, 744, 705, 738, 749, 726, 707, 708, 546, 657, 706, 698, 640, 633, 640] |
| 49 | 726 | 546 | 655 | | [756, 863, 915, 1668, 702, 707, 744, 705, 738, 749, 726, 707, 708, 546, 657, 706, 698, 640, 633, 640, 645] |

| Tag | Q _d | Q _d min | Q _d min20 | Q _{F,d} | Wertebereich |
|-----|----------------|--------------------|----------------------|------------------|--|
| 50 | 707 | 546 | 655 | | [863, 915, 1668, 702, 707, 744, 705, 738, 749, 726, 707, 708, 546, 657, 706, 698, 640, 633, 640, 645, 708] |
| 51 | 708 | 546 | 655 | | [915, 1668, 702, 707, 744, 705, 738, 749, 726, 707, 708, 546, 657, 706, 698, 640, 633, 640, 645, 708, 788] |
| 52 | 546 | 546 | 655 | 202 | [1668, 702, 707, 744, 705, 738, 749, 726, 707, 708, 546, 657, 706, 698, 640, 633, 640, 645, 708, 788, 639] |
| 53 | 657 | 546 | 655 | | [702, 707, 744, 705, 738, 749, 726, 707, 708, 546, 657, 706, 698, 640, 633, 640, 645, 708, 788, 639, 822] |
| 54 | 706 | 546 | 655 | | [707, 744, 705, 738, 749, 726, 707, 708, 546, 657, 706, 698, 640, 633, 640, 645, 708, 788, 639, 822, 994] |
| 55 | 698 | 546 | 655 | | [744, 705, 738, 749, 726, 707, 708, 546, 657, 706, 698, 640, 633, 640, 645, 708, 788, 639, 822, 994, 612] |
| 56 | 640 | 546 | 655 | 296 | [705, 738, 749, 726, 707, 708, 546, 657, 706, 698, 640, 633, 640, 645, 708, 788, 639, 822, 994, 612, 786] |
| 57 | 633 | 546 | 655 | 289 | [738, 749, 726, 707, 708, 546, 657, 706, 698, 640, 633, 640, 645, 708, 788, 639, 822, 994, 612, 786, 1300] |
| 58 | 640 | 546 | 655 | 296 | [749, 726, 707, 708, 546, 657, 706, 698, 640, 633, 640, 645, 708, 788, 639, 822, 994, 612, 786, 1300, 1560] |
| 59 | 645 | 546 | 655 | 301 | [726, 707, 708, 546, 657, 706, 698, 640, 633, 640, 645, 708, 788, 639, 822, 994, 612, 786, 1300, 1560, 2058] |
| 60 | 708 | 546 | 655 | | [707, 708, 546, 657, 706, 698, 640, 633, 640, 645, 708, 788, 639, 822, 994, 612, 786, 1300, 1560, 2058, 1130] |
| 61 | 788 | 546 | 655 | | [708, 546, 657, 706, 698, 640, 633, 640, 645, 708, 788, 639, 822, 994, 612, 786, 1300, 1560, 2058, 1130, 706] |
| 62 | 639 | 546 | 655 | 295 | [546, 657, 706, 698, 640, 633, 640, 645, 708, 788, 639, 822, 994, 612, 786, 1300, 1560, 2058, 1130, 706, 1003] |
| 63 | 822 | 612 | 734 | | [657, 706, 698, 640, 633, 640, 645, 708, 788, 639, 822, 994, 612, 786, 1300, 1560, 2058, 1130, 706, 1003, 1462] |
| 64 | 994 | 612 | 734 | | [706, 698, 640, 633, 640, 645, 708, 788, 639, 822, 994, 612, 786, 1300, 1560, 2058, 1130, 706, 1003, 1462, 1950] |
| 65 | 612 | 612 | 734 | 268 | [698, 640, 633, 640, 645, 708, 788, 639, 822, 994, 612, 786, 1300, 1560, 2058, 1130, 706, 1003, 1462, 1950, 2279] |
| 66 | 786 | 612 | 734 | | [640, 633, 640, 645, 708, 788, 639, 822, 994, 612, 786, 1300, 1560, 2058, 1130, 706, 1003, 1462, 1950, 2279, 2297] |
| 67 | 1300 | 612 | 734 | | [633, 640, 645, 708, 788, 639, 822, 994, 612, 786, 1300, 1560, 2058, 1130, 706, 1003, 1462, 1950, 2279, 2297, 1774] |
| 68 | 1560 | 612 | 734 | | [640, 645, 708, 788, 639, 822, 994, 612, 786, 1300, 1560, 2058, 1130, 706, 1003, 1462, 1950, 2279, 2297, 1774, 1164] |
| 69 | 2058 | 612 | 734 | | [645, 708, 788, 639, 822, 994, 612, 786, 1300, 1560, 2058, 1130, 706, 1003, 1462, 1950, 2279, 2297, 1774, 1164, 1033] |
| 70 | 1130 | 612 | 734 | | [708, 788, 639, 822, 994, 612, 786, 1300, 1560, 2058, 1130, 706, 1003, 1462, 1950, 2279, 2297, 1774, 1164, 1033, 1075] |
| 71 | 706 | 612 | 734 | 362 | [788, 639, 822, 994, 612, 786, 1300, 1560, 2058, 1130, 706, 1003, 1462, 1950, 2279, 2297, 1774, 1164, 1033, 1075, 931] |
| 72 | 1003 | 612 | 734 | | [639, 822, 994, 612, 786, 1300, 1560, 2058, 1130, 706, 1003, 1462, 1950, 2279, 2297, 1774, 1164, 1033, 1075, 931, 952] |
| 73 | 1462 | 612 | 734 | | [822, 994, 612, 786, 1300, 1560, 2058, 1130, 706, 1003, 1462, 1950, 2279, 2297, 1774, 1164, 1033, 1075, 931, 952, 912] |
| 74 | 1950 | 612 | 734 | | [994, 612, 786, 1300, 1560, 2058, 1130, 706, 1003, 1462, 1950, 2279, 2297, 1774, 1164, 1033, 1075, 931, 952, 912, 1555] |
| 75 | 2279 | 612 | 734 | | [612, 786, 1300, 1560, 2058, 1130, 706, 1003, 1462, 1950, 2279, 2297, 1774, 1164, 1033, 1075, 931, 952, 912, 1555, 1667] |
| 76 | 2297 | 706 | 847 | | [786, 1300, 1560, 2058, 1130, 706, 1003, 1462, 1950, 2279, 2297, 1774, 1164, 1033, 1075, 931, 952, 912, 1555, 1667, 875] |
| 77 | 1774 | 706 | 847 | | [1300, 1560, 2058, 1130, 706, 1003, 1462, 1950, 2279, 2297, 1774, 1164, 1033, 1075, 931, 952, 912, 1555, 1667, 875, 780] |
| 78 | 1164 | 706 | 847 | | [1560, 2058, 1130, 706, 1003, 1462, 1950, 2279, 2297, 1774, 1164, 1033, 1075, 931, 952, 912, 1555, 1667, 875, 780, 818] |
| 79 | 1033 | 706 | 847 | | [2058, 1130, 706, 1003, 1462, 1950, 2279, 2297, 1774, 1164, 1033, 1075, 931, 952, 912, 1555, 1667, 875, 780, 818, 851] |
| 80 | 1075 | 706 | 847 | | [1130, 706, 1003, 1462, 1950, 2279, 2297, 1774, 1164, 1033, 1075, 931, 952, 912, 1555, 1667, 875, 780, 818, 851, 788] |
| 81 | 931 | 706 | 847 | | [706, 1003, 1462, 1950, 2279, 2297, 1774, 1164, 1033, 1075, 931, 952, 912, 1555, 1667, 875, 780, 818, 851, 788, 749] |
| 82 | 952 | 749 | 898 | | [1003, 1462, 1950, 2279, 2297, 1774, 1164, 1033, 1075, 931, 952, 912, 1555, 1667, 875, 780, 818, 851, 788, 749, 751] |
| 83 | 912 | 749 | 898 | | [1462, 1950, 2279, 2297, 1774, 1164, 1033, 1075, 931, 952, 912, 1555, 1667, 875, 780, 818, 851, 788, 749, 751, 809] |
| 84 | 1555 | 749 | 898 | | [1950, 2279, 2297, 1774, 1164, 1033, 1075, 931, 952, 912, 1555, 1667, 875, 780, 818, 851, 788, 749, 751, 809, 751] |
| 85 | 1667 | 749 | 898 | | [2279, 2297, 1774, 1164, 1033, 1075, 931, 952, 912, 1555, 1667, 875, 780, 818, 851, 788, 749, 751, 809, 751, 859] |
| 86 | 875 | 749 | 898 | 531 | [2297, 1774, 1164, 1033, 1075, 931, 952, 912, 1555, 1667, 875, 780, 818, 851, 788, 749, 751, 809, 751, 859, 782] |
| 87 | 780 | 749 | 898 | 436 | [1774, 1164, 1033, 1075, 931, 952, 912, 1555, 1667, 875, 780, 818, 851, 788, 749, 751, 809, 751, 859, 782, 768] |
| 88 | 818 | 672 | 806 | | [1164, 1033, 1075, 931, 952, 912, 1555, 1667, 875, 780, 818, 851, 788, 749, 751, 809, 751, 859, 782, 768, 672] |
| 89 | 851 | 668 | 801 | | [1033, 1075, 931, 952, 912, 1555, 1667, 875, 780, 818, 851, 788, 749, 751, 809, 751, 859, 782, 768, 672, 668] |
| 90 | 788 | 656 | 787 | | [1075, 931, 952, 912, 1555, 1667, 875, 780, 818, 851, 788, 749, 751, 809, 751, 859, 782, 768, 672, 668, 656] |
| 91 | 749 | 652 | 782 | 405 | [931, 952, 912, 1555, 1667, 875, 780, 818, 851, 788, 749, 751, 809, 751, 859, 782, 768, 672, 668, 656, 652] |
| 92 | 751 | 652 | 782 | 407 | [952, 912, 1555, 1667, 875, 780, 818, 851, 788, 749, 751, 809, 751, 859, 782, 768, 672, 668, 656, 652, 680] |
| 93 | 809 | 652 | 782 | | [912, 1555, 1667, 875, 780, 818, 851, 788, 749, 751, 809, 751, 859, 782, 768, 672, 668, 656, 652, 680, 714] |
| 94 | 751 | 652 | 782 | 407 | [1555, 1667, 875, 780, 818, 851, 788, 749, 751, 809, 751, 859, 782, 768, 672, 668, 656, 652, 680, 714, 700] |
| 95 | 859 | 652 | 782 | | [1667, 875, 780, 818, 851, 788, 749, 751, 809, 751, 859, 782, 768, 672, 668, 656, 652, 680, 714, 700, 656] |

| Tag | Q _d | Q _d min | Q _d min20 | Q _{F,d} | Wertebereich |
|-----|----------------|--------------------|----------------------|------------------|---|
| 96 | 782 | 652 | 782 | 438 | [875, 780, 818, 851, 788, 749, 751, 809, 751, 859, 782, 768, 672, 668, 656, 652, 680, 714, 700, 656, 660] |
| 97 | 768 | 647 | 776 | 424 | [780, 818, 851, 788, 749, 751, 809, 751, 859, 782, 768, 672, 668, 656, 652, 680, 714, 700, 656, 660, 647] |
| 98 | 672 | 647 | 776 | 328 | [818, 851, 788, 749, 751, 809, 751, 859, 782, 768, 672, 668, 656, 652, 680, 714, 700, 656, 660, 647, 675] |
| 99 | 668 | 647 | 776 | 324 | [851, 788, 749, 751, 809, 751, 859, 782, 768, 672, 668, 656, 652, 680, 714, 700, 656, 660, 647, 675, 714] |
| 100 | 656 | 647 | 776 | 312 | [788, 749, 751, 809, 751, 859, 782, 768, 672, 668, 656, 652, 680, 714, 700, 656, 660, 647, 675, 714, 719] |
| 101 | 652 | 647 | 776 | 308 | [749, 751, 809, 751, 859, 782, 768, 672, 668, 656, 652, 680, 714, 700, 656, 660, 647, 675, 714, 719, 716] |
| 102 | 680 | 647 | 776 | 336 | [751, 809, 751, 859, 782, 768, 672, 668, 656, 652, 680, 714, 700, 656, 660, 647, 675, 714, 719, 716, 786] |
| 103 | 714 | 647 | 776 | 370 | [809, 751, 859, 782, 768, 672, 668, 656, 652, 680, 714, 700, 656, 660, 647, 675, 714, 719, 716, 786, 754] |
| 104 | 700 | 647 | 776 | 356 | [751, 859, 782, 768, 672, 668, 656, 652, 680, 714, 700, 656, 660, 647, 675, 714, 719, 716, 786, 754, 763] |
| 105 | 656 | 647 | 776 | 312 | [859, 782, 768, 672, 668, 656, 652, 680, 714, 700, 656, 660, 647, 675, 714, 719, 716, 786, 754, 763, 745] |
| 106 | 660 | 647 | 776 | 316 | [782, 768, 672, 668, 656, 652, 680, 714, 700, 656, 660, 647, 675, 714, 719, 716, 786, 754, 763, 745, 1173] |
| 107 | 647 | 647 | 776 | 303 | [768, 672, 668, 656, 652, 680, 714, 700, 656, 660, 647, 675, 714, 719, 716, 786, 754, 763, 745, 1173, 1076] |
| 108 | 675 | 647 | 776 | 331 | [672, 668, 656, 652, 680, 714, 700, 656, 660, 647, 675, 714, 719, 716, 786, 754, 763, 745, 1173, 1076, 2247] |
| 109 | 714 | 647 | 776 | 370 | [668, 656, 652, 680, 714, 700, 656, 660, 647, 675, 714, 719, 716, 786, 754, 763, 745, 1173, 1076, 2247, 1337] |
| 110 | 719 | 647 | 776 | 375 | [656, 652, 680, 714, 700, 656, 660, 647, 675, 714, 719, 716, 786, 754, 763, 745, 1173, 1076, 2247, 1337, 1666] |
| 111 | 716 | 647 | 776 | 372 | [652, 680, 714, 700, 656, 660, 647, 675, 714, 719, 716, 786, 754, 763, 745, 1173, 1076, 2247, 1337, 1666, 705] |
| 112 | 786 | 643 | 771 | | [680, 714, 700, 656, 660, 647, 675, 714, 719, 716, 786, 754, 763, 745, 1173, 1076, 2247, 1337, 1666, 705, 643] |
| 113 | 754 | 643 | 771 | 410 | [714, 700, 656, 660, 647, 675, 714, 719, 716, 786, 754, 763, 745, 1173, 1076, 2247, 1337, 1666, 705, 643, 996] |
| 114 | 763 | 643 | 771 | 419 | [700, 656, 660, 647, 675, 714, 719, 716, 786, 754, 763, 745, 1173, 1076, 2247, 1337, 1666, 705, 643, 996, 1567] |
| 115 | 745 | 643 | 771 | 401 | [656, 660, 647, 675, 714, 719, 716, 786, 754, 763, 745, 1173, 1076, 2247, 1337, 1666, 705, 643, 996, 1567, 653] |
| 116 | 1173 | 620 | 744 | | [660, 647, 675, 714, 719, 716, 786, 754, 763, 745, 1173, 1076, 2247, 1337, 1666, 705, 643, 996, 1567, 653, 620] |
| 117 | 1076 | 620 | 744 | | [647, 675, 714, 719, 716, 786, 754, 763, 745, 1173, 1076, 2247, 1337, 1666, 705, 643, 996, 1567, 653, 620, 642] |
| 118 | 2247 | 620 | 744 | | [675, 714, 719, 716, 786, 754, 763, 745, 1173, 1076, 2247, 1337, 1666, 705, 643, 996, 1567, 653, 620, 642, 1177] |
| 119 | 1337 | 620 | 744 | | [714, 719, 716, 786, 754, 763, 745, 1173, 1076, 2247, 1337, 1666, 705, 643, 996, 1567, 653, 620, 642, 1177, 1671] |
| 120 | 1666 | 620 | 744 | | [719, 716, 786, 754, 763, 745, 1173, 1076, 2247, 1337, 1666, 705, 643, 996, 1567, 653, 620, 642, 1177, 1671, 1424] |
| 121 | 705 | 620 | 744 | 361 | [716, 786, 754, 763, 745, 1173, 1076, 2247, 1337, 1666, 705, 643, 996, 1567, 653, 620, 642, 1177, 1671, 1424, 1600] |
| 122 | 643 | 620 | 744 | 299 | [786, 754, 763, 745, 1173, 1076, 2247, 1337, 1666, 705, 643, 996, 1567, 653, 620, 642, 1177, 1671, 1424, 1600, 723] |
| 123 | 996 | 620 | 744 | | [754, 763, 745, 1173, 1076, 2247, 1337, 1666, 705, 643, 996, 1567, 653, 620, 642, 1177, 1671, 1424, 1600, 723, 630] |
| 124 | 1567 | 620 | 744 | | [763, 745, 1173, 1076, 2247, 1337, 1666, 705, 643, 996, 1567, 653, 620, 642, 1177, 1671, 1424, 1600, 723, 630, 648] |
| 125 | 653 | 620 | 744 | 309 | [745, 1173, 1076, 2247, 1337, 1666, 705, 643, 996, 1567, 653, 620, 642, 1177, 1671, 1424, 1600, 723, 630, 648, 748] |
| 126 | 620 | 620 | 744 | 276 | [1173, 1076, 2247, 1337, 1666, 705, 643, 996, 1567, 653, 620, 642, 1177, 1671, 1424, 1600, 723, 630, 648, 748, 722] |
| 127 | 642 | 615 | 738 | 298 | [1076, 2247, 1337, 1666, 705, 643, 996, 1567, 653, 620, 642, 1177, 1671, 1424, 1600, 723, 630, 648, 748, 722, 615] |
| 128 | 1177 | 615 | 738 | | [2247, 1337, 1666, 705, 643, 996, 1567, 653, 620, 642, 1177, 1671, 1424, 1600, 723, 630, 648, 748, 722, 615, 661] |
| 129 | 1671 | 615 | 738 | | [1337, 1666, 705, 643, 996, 1567, 653, 620, 642, 1177, 1671, 1424, 1600, 723, 630, 648, 748, 722, 615, 661, 921] |
| 130 | 1424 | 615 | 738 | | [1666, 705, 643, 996, 1567, 653, 620, 642, 1177, 1671, 1424, 1600, 723, 630, 648, 748, 722, 615, 661, 921, 1867] |
| 131 | 1600 | 615 | 738 | | [705, 643, 996, 1567, 653, 620, 642, 1177, 1671, 1424, 1600, 723, 630, 648, 748, 722, 615, 661, 921, 1867, 2298] |
| 132 | 723 | 615 | 738 | 379 | [643, 996, 1567, 653, 620, 642, 1177, 1671, 1424, 1600, 723, 630, 648, 748, 722, 615, 661, 921, 1867, 2298, 2276] |
| 133 | 630 | 615 | 738 | 286 | [996, 1567, 653, 620, 642, 1177, 1671, 1424, 1600, 723, 630, 648, 748, 722, 615, 661, 921, 1867, 2298, 2276, 2020] |
| 134 | 648 | 615 | 738 | 304 | [1567, 653, 620, 642, 1177, 1671, 1424, 1600, 723, 630, 648, 748, 722, 615, 661, 921, 1867, 2298, 2276, 2020, 1412] |
| 135 | 748 | 615 | 738 | | [653, 620, 642, 1177, 1671, 1424, 1600, 723, 630, 648, 748, 722, 615, 661, 921, 1867, 2298, 2276, 2020, 1412, 1321] |
| 136 | 722 | 615 | 738 | 378 | [620, 642, 1177, 1671, 1424, 1600, 723, 630, 648, 748, 722, 615, 661, 921, 1867, 2298, 2276, 2020, 1412, 1321, 1206] |
| 137 | 615 | 615 | 738 | 271 | [642, 1177, 1671, 1424, 1600, 723, 630, 648, 748, 722, 615, 661, 921, 1867, 2298, 2276, 2020, 1412, 1321, 1206, 1088] |
| 138 | 661 | 615 | 738 | 317 | [1177, 1671, 1424, 1600, 723, 630, 648, 748, 722, 615, 661, 921, 1867, 2298, 2276, 2020, 1412, 1321, 1206, 1088, 936] |
| 139 | 921 | 615 | 738 | | [1671, 1424, 1600, 723, 630, 648, 748, 722, 615, 661, 921, 1867, 2298, 2276, 2020, 1412, 1321, 1206, 1088, 936, 762] |
| 140 | 1867 | 615 | 738 | | [1424, 1600, 723, 630, 648, 748, 722, 615, 661, 921, 1867, 2298, 2276, 2020, 1412, 1321, 1206, 1088, 936, 762, 724] |
| 141 | 2298 | 615 | 738 | | [1600, 723, 630, 648, 748, 722, 615, 661, 921, 1867, 2298, 2276, 2020, 1412, 1321, 1206, 1088, 936, 762, 724, 730] |

| Tag | Q _d | Q _d min | Q _d min20 | Q _{F,d} | Wertebereich |
|-----|----------------|--------------------|----------------------|------------------|---|
| 142 | 2276 | 615 | 738 | | [723, 630, 648, 748, 722, 615, 661, 921, 1867, 2298, 2276, 2020, 1412, 1321, 1206, 1088, 936, 762, 724, 730, 726] |
| 143 | 2020 | 615 | 738 | | [630, 648, 748, 722, 615, 661, 921, 1867, 2298, 2276, 2020, 1412, 1321, 1206, 1088, 936, 762, 724, 730, 726, 696] |
| 144 | 1412 | 615 | 738 | | [648, 748, 722, 615, 661, 921, 1867, 2298, 2276, 2020, 1412, 1321, 1206, 1088, 936, 762, 724, 730, 726, 696, 990] |
| 145 | 1321 | 615 | 738 | | [748, 722, 615, 661, 921, 1867, 2298, 2276, 2020, 1412, 1321, 1206, 1088, 936, 762, 724, 730, 726, 696, 990, 724] |
| 146 | 1206 | 615 | 738 | | [722, 615, 661, 921, 1867, 2298, 2276, 2020, 1412, 1321, 1206, 1088, 936, 762, 724, 730, 726, 696, 990, 724, 621] |
| 147 | 1088 | 615 | 738 | | [615, 661, 921, 1867, 2298, 2276, 2020, 1412, 1321, 1206, 1088, 936, 762, 724, 730, 726, 696, 990, 724, 621, 852] |
| 148 | 936 | 621 | 745 | | [661, 921, 1867, 2298, 2276, 2020, 1412, 1321, 1206, 1088, 936, 762, 724, 730, 726, 696, 990, 724, 621, 852, 1312] |
| 149 | 762 | 621 | 745 | | [921, 1867, 2298, 2276, 2020, 1412, 1321, 1206, 1088, 936, 762, 724, 730, 726, 696, 990, 724, 621, 852, 1312, 1337] |
| 150 | 724 | 601 | 721 | | [1867, 2298, 2276, 2020, 1412, 1321, 1206, 1088, 936, 762, 724, 730, 726, 696, 990, 724, 621, 852, 1312, 1337, 601] |
| 151 | 730 | 601 | 721 | | [2298, 2276, 2020, 1412, 1321, 1206, 1088, 936, 762, 724, 730, 726, 696, 990, 724, 621, 852, 1312, 1337, 601, 1002] |
| 152 | 726 | 601 | 721 | | [2276, 2020, 1412, 1321, 1206, 1088, 936, 762, 724, 730, 726, 696, 990, 724, 621, 852, 1312, 1337, 601, 1002, 1338] |
| 153 | 696 | 601 | 721 | 352 | [2020, 1412, 1321, 1206, 1088, 936, 762, 724, 730, 726, 696, 990, 724, 621, 852, 1312, 1337, 601, 1002, 1338, 757] |
| 154 | 990 | 601 | 721 | | [1412, 1321, 1206, 1088, 936, 762, 724, 730, 726, 696, 990, 724, 621, 852, 1312, 1337, 601, 1002, 1338, 757, 608] |
| 155 | 724 | 550 | 660 | | [1321, 1206, 1088, 936, 762, 724, 730, 726, 696, 990, 724, 621, 852, 1312, 1337, 601, 1002, 1338, 757, 608, 550] |
| 156 | 621 | 550 | 660 | 277 | [1206, 1088, 936, 762, 724, 730, 726, 696, 990, 724, 621, 852, 1312, 1337, 601, 1002, 1338, 757, 608, 550, 564] |
| 157 | 852 | 550 | 660 | | [1088, 936, 762, 724, 730, 726, 696, 990, 724, 621, 852, 1312, 1337, 601, 1002, 1338, 757, 608, 550, 564, 1764] |
| 158 | 1312 | 537 | 644 | | [936, 762, 724, 730, 726, 696, 990, 724, 621, 852, 1312, 1337, 601, 1002, 1338, 757, 608, 550, 564, 1764, 537] |
| 159 | 1337 | 529 | 634 | | [762, 724, 730, 726, 696, 990, 724, 621, 852, 1312, 1337, 601, 1002, 1338, 757, 608, 550, 564, 1764, 537, 529] |
| 160 | 601 | 529 | 634 | 257 | [724, 730, 726, 696, 990, 724, 621, 852, 1312, 1337, 601, 1002, 1338, 757, 608, 550, 564, 1764, 537, 529, 567] |
| 161 | 1002 | 529 | 634 | | [730, 726, 696, 990, 724, 621, 852, 1312, 1337, 601, 1002, 1338, 757, 608, 550, 564, 1764, 537, 529, 567, 1055] |
| 162 | 1338 | 507 | 608 | | [726, 696, 990, 724, 621, 852, 1312, 1337, 601, 1002, 1338, 757, 608, 550, 564, 1764, 537, 529, 567, 1055, 507] |
| 163 | 757 | 507 | 608 | | [696, 990, 724, 621, 852, 1312, 1337, 601, 1002, 1338, 757, 608, 550, 564, 1764, 537, 529, 567, 1055, 507, 573] |
| 164 | 608 | 507 | 608 | 264 | [990, 724, 621, 852, 1312, 1337, 601, 1002, 1338, 757, 608, 550, 564, 1764, 537, 529, 567, 1055, 507, 573, 589] |
| 165 | 550 | 507 | 608 | 206 | [724, 621, 852, 1312, 1337, 601, 1002, 1338, 757, 608, 550, 564, 1764, 537, 529, 567, 1055, 507, 573, 589, 545] |
| 166 | 564 | 507 | 608 | 220 | [621, 852, 1312, 1337, 601, 1002, 1338, 757, 608, 550, 564, 1764, 537, 529, 567, 1055, 507, 573, 589, 545, 546] |
| 167 | 1764 | 507 | 608 | | [852, 1312, 1337, 601, 1002, 1338, 757, 608, 550, 564, 1764, 537, 529, 567, 1055, 507, 573, 589, 545, 546, 568] |
| 168 | 537 | 507 | 608 | 193 | [1312, 1337, 601, 1002, 1338, 757, 608, 550, 564, 1764, 537, 529, 567, 1055, 507, 573, 589, 545, 546, 568, 559] |
| 169 | 529 | 507 | 608 | 185 | [1337, 601, 1002, 1338, 757, 608, 550, 564, 1764, 537, 529, 567, 1055, 507, 573, 589, 545, 546, 568, 559, 593] |
| 170 | 567 | 507 | 608 | 223 | [601, 1002, 1338, 757, 608, 550, 564, 1764, 537, 529, 567, 1055, 507, 573, 589, 545, 546, 568, 559, 593, 640] |
| 171 | 1055 | 507 | 608 | | [1002, 1338, 757, 608, 550, 564, 1764, 537, 529, 567, 1055, 507, 573, 589, 545, 546, 568, 559, 593, 640, 670] |
| 172 | 507 | 507 | 608 | 163 | [1338, 757, 608, 550, 564, 1764, 537, 529, 567, 1055, 507, 573, 589, 545, 546, 568, 559, 593, 640, 670, 603] |
| 173 | 573 | 507 | 608 | 229 | [757, 608, 550, 564, 1764, 537, 529, 567, 1055, 507, 573, 589, 545, 546, 568, 559, 593, 640, 670, 603, 578] |
| 174 | 589 | 507 | 608 | 245 | [608, 550, 564, 1764, 537, 529, 567, 1055, 507, 573, 589, 545, 546, 568, 559, 593, 640, 670, 603, 578, 600] |
| 175 | 545 | 507 | 608 | 201 | [550, 564, 1764, 537, 529, 567, 1055, 507, 573, 589, 545, 546, 568, 559, 593, 640, 670, 603, 578, 600, 575] |
| 176 | 546 | 490 | 588 | 202 | [564, 1764, 537, 529, 567, 1055, 507, 573, 589, 545, 546, 568, 559, 593, 640, 670, 603, 578, 600, 575, 490] |
| 177 | 568 | 490 | 588 | 224 | [1764, 537, 529, 567, 1055, 507, 573, 589, 545, 546, 568, 559, 593, 640, 670, 603, 578, 600, 575, 490, 556] |
| 178 | 559 | 490 | 588 | 215 | [537, 529, 567, 1055, 507, 573, 589, 545, 546, 568, 559, 593, 640, 670, 603, 578, 600, 575, 490, 556, 989] |
| 179 | 593 | 490 | 588 | | [529, 567, 1055, 507, 573, 589, 545, 546, 568, 559, 593, 640, 670, 603, 578, 600, 575, 490, 556, 989, 551] |
| 180 | 640 | 490 | 588 | | [567, 1055, 507, 573, 589, 545, 546, 568, 559, 593, 640, 670, 603, 578, 600, 575, 490, 556, 989, 551, 549] |
| 181 | 670 | 490 | 588 | | [1055, 507, 573, 589, 545, 546, 568, 559, 593, 640, 670, 603, 578, 600, 575, 490, 556, 989, 551, 549, 556] |
| 182 | 603 | 490 | 588 | | [507, 573, 589, 545, 546, 568, 559, 593, 640, 670, 603, 578, 600, 575, 490, 556, 989, 551, 549, 556, 1060] |
| 183 | 578 | 490 | 588 | 234 | [573, 589, 545, 546, 568, 559, 593, 640, 670, 603, 578, 600, 575, 490, 556, 989, 551, 549, 556, 1060, 1372] |
| 184 | 600 | 490 | 588 | | [589, 545, 546, 568, 559, 593, 640, 670, 603, 578, 600, 575, 490, 556, 989, 551, 549, 556, 1060, 1372, 1474] |
| 185 | 575 | 490 | 588 | 231 | [545, 546, 568, 559, 593, 640, 670, 603, 578, 600, 575, 490, 556, 989, 551, 549, 556, 1060, 1372, 1474, 563] |
| 186 | 490 | 490 | 588 | 146 | [546, 568, 559, 593, 640, 670, 603, 578, 600, 575, 490, 556, 989, 551, 549, 556, 1060, 1372, 1474, 563, 512] |
| 187 | 556 | 490 | 588 | 212 | [568, 559, 593, 640, 670, 603, 578, 600, 575, 490, 556, 989, 551, 549, 556, 1060, 1372, 1474, 563, 512, 543] |

| Tag | Q _d | Q _d min | Q _d min20 | Q _{F,d} | Wertebereich |
|-----|----------------|--------------------|----------------------|------------------|--|
| 188 | 989 | 490 | 588 | | [559, 593, 640, 670, 603, 578, 600, 575, 490, 556, 989, 551, 549, 556, 1060, 1372, 1474, 563, 512, 543, 570] |
| 189 | 551 | 490 | 588 | 207 | [593, 640, 670, 603, 578, 600, 575, 490, 556, 989, 551, 549, 556, 1060, 1372, 1474, 563, 512, 543, 570, 577] |
| 190 | 549 | 490 | 588 | 205 | [640, 670, 603, 578, 600, 575, 490, 556, 989, 551, 549, 556, 1060, 1372, 1474, 563, 512, 543, 570, 577, 1045] |
| 191 | 556 | 490 | 588 | 212 | [670, 603, 578, 600, 575, 490, 556, 989, 551, 549, 556, 1060, 1372, 1474, 563, 512, 543, 570, 577, 1045, 560] |
| 192 | 1060 | 490 | 588 | | [603, 578, 600, 575, 490, 556, 989, 551, 549, 556, 1060, 1372, 1474, 563, 512, 543, 570, 577, 1045, 560, 610] |
| 193 | 1372 | 490 | 588 | | [578, 600, 575, 490, 556, 989, 551, 549, 556, 1060, 1372, 1474, 563, 512, 543, 570, 577, 1045, 560, 610, 515] |
| 194 | 1474 | 490 | 588 | | [600, 575, 490, 556, 989, 551, 549, 556, 1060, 1372, 1474, 563, 512, 543, 570, 577, 1045, 560, 610, 515, 528] |
| 195 | 563 | 490 | 588 | 219 | [575, 490, 556, 989, 551, 549, 556, 1060, 1372, 1474, 563, 512, 543, 570, 577, 1045, 560, 610, 515, 528, 564] |
| 196 | 512 | 490 | 588 | 168 | [490, 556, 989, 551, 549, 556, 1060, 1372, 1474, 563, 512, 543, 570, 577, 1045, 560, 610, 515, 528, 564, 544] |
| 197 | 543 | 512 | 614 | 199 | [556, 989, 551, 549, 556, 1060, 1372, 1474, 563, 512, 543, 570, 577, 1045, 560, 610, 515, 528, 564, 544, 586] |
| 198 | 570 | 512 | 614 | 226 | [989, 551, 549, 556, 1060, 1372, 1474, 563, 512, 543, 570, 577, 1045, 560, 610, 515, 528, 564, 544, 586, 1624] |
| 199 | 577 | 512 | 614 | 233 | [551, 549, 556, 1060, 1372, 1474, 563, 512, 543, 570, 577, 1045, 560, 610, 515, 528, 564, 544, 586, 1624, 2238] |
| 200 | 1045 | 512 | 614 | | [549, 556, 1060, 1372, 1474, 563, 512, 543, 570, 577, 1045, 560, 610, 515, 528, 564, 544, 586, 1624, 2238, 1455] |
| 201 | 560 | 512 | 614 | 216 | [556, 1060, 1372, 1474, 563, 512, 543, 570, 577, 1045, 560, 610, 515, 528, 564, 544, 586, 1624, 2238, 1455, 672] |
| 202 | 610 | 512 | 614 | 266 | [1060, 1372, 1474, 563, 512, 543, 570, 577, 1045, 560, 610, 515, 528, 564, 544, 586, 1624, 2238, 1455, 672, 1926] |
| 203 | 515 | 512 | 614 | 171 | [1372, 1474, 563, 512, 543, 570, 577, 1045, 560, 610, 515, 528, 564, 544, 586, 1624, 2238, 1455, 672, 1926, 658] |
| 204 | 528 | 512 | 614 | 184 | [1474, 563, 512, 543, 570, 577, 1045, 560, 610, 515, 528, 564, 544, 586, 1624, 2238, 1455, 672, 1926, 658, 1011] |
| 205 | 564 | 504 | 604 | 220 | [563, 512, 543, 570, 577, 1045, 560, 610, 515, 528, 564, 544, 586, 1624, 2238, 1455, 672, 1926, 658, 1011, 504] |
| 206 | 544 | 504 | 604 | 200 | [512, 543, 570, 577, 1045, 560, 610, 515, 528, 564, 544, 586, 1624, 2238, 1455, 672, 1926, 658, 1011, 504, 523] |
| 207 | 586 | 504 | 604 | 242 | [543, 570, 577, 1045, 560, 610, 515, 528, 564, 544, 586, 1624, 2238, 1455, 672, 1926, 658, 1011, 504, 523, 535] |
| 208 | 1624 | 457 | 548 | | [570, 577, 1045, 560, 610, 515, 528, 564, 544, 586, 1624, 2238, 1455, 672, 1926, 658, 1011, 504, 523, 535, 457] |
| 209 | 2238 | 457 | 548 | | [577, 1045, 560, 610, 515, 528, 564, 544, 586, 1624, 2238, 1455, 672, 1926, 658, 1011, 504, 523, 535, 457, 1646] |
| 210 | 1455 | 457 | 548 | | [1045, 560, 610, 515, 528, 564, 544, 586, 1624, 2238, 1455, 672, 1926, 658, 1011, 504, 523, 535, 457, 1646, 995] |
| 211 | 672 | 457 | 548 | | [560, 610, 515, 528, 564, 544, 586, 1624, 2238, 1455, 672, 1926, 658, 1011, 504, 523, 535, 457, 1646, 995, 568] |
| 212 | 1926 | 457 | 548 | | [610, 515, 528, 564, 544, 586, 1624, 2238, 1455, 672, 1926, 658, 1011, 504, 523, 535, 457, 1646, 995, 568, 1823] |
| 213 | 658 | 457 | 548 | | [515, 528, 564, 544, 586, 1624, 2238, 1455, 672, 1926, 658, 1011, 504, 523, 535, 457, 1646, 995, 568, 1823, 880] |
| 214 | 1011 | 457 | 548 | | [528, 564, 544, 586, 1624, 2238, 1455, 672, 1926, 658, 1011, 504, 523, 535, 457, 1646, 995, 568, 1823, 880, 828] |
| 215 | 504 | 457 | 548 | 160 | [564, 544, 586, 1624, 2238, 1455, 672, 1926, 658, 1011, 504, 523, 535, 457, 1646, 995, 568, 1823, 880, 828, 545] |
| 216 | 523 | 457 | 548 | 179 | [544, 586, 1624, 2238, 1455, 672, 1926, 658, 1011, 504, 523, 535, 457, 1646, 995, 568, 1823, 880, 828, 545, 473] |
| 217 | 535 | 457 | 548 | 191 | [586, 1624, 2238, 1455, 672, 1926, 658, 1011, 504, 523, 535, 457, 1646, 995, 568, 1823, 880, 828, 545, 473, 1031] |
| 218 | 457 | 457 | 548 | 113 | [1624, 2238, 1455, 672, 1926, 658, 1011, 504, 523, 535, 457, 1646, 995, 568, 1823, 880, 828, 545, 473, 1031, 1448] |
| 219 | 1646 | 457 | 548 | | [2238, 1455, 672, 1926, 658, 1011, 504, 523, 535, 457, 1646, 995, 568, 1823, 880, 828, 545, 473, 1031, 1448, 529] |
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| 221 | 568 | 457 | 548 | | [672, 1926, 658, 1011, 504, 523, 535, 457, 1646, 995, 568, 1823, 880, 828, 545, 473, 1031, 1448, 529, 522, 553] |
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| 223 | 880 | 457 | 548 | | [658, 1011, 504, 523, 535, 457, 1646, 995, 568, 1823, 880, 828, 545, 473, 1031, 1448, 529, 522, 553, 858, 809] |
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| 226 | 473 | 452 | 542 | 129 | [523, 535, 457, 1646, 995, 568, 1823, 880, 828, 545, 473, 1031, 1448, 529, 522, 553, 858, 809, 452, 465, 505] |
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| 231 | 553 | 446 | 535 | | [568, 1823, 880, 828, 545, 473, 1031, 1448, 529, 522, 553, 858, 809, 452, 465, 505, 511, 479, 476, 446, 472] |
| 232 | 858 | 446 | 535 | | [1823, 880, 828, 545, 473, 1031, 1448, 529, 522, 553, 858, 809, 452, 465, 505, 511, 479, 476, 446, 472, 503] |
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| Tag | Q _d | Q _d min | Q _d min20 | Q _{F,d} | Wertebereich |
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| 262 | 546 | 453 | 543 | | [1031, 498, 554, 547, 557, 588, 541, 500, 530, 568, 546, 570, 559, 565, 1341, 453, 1069, 639, 1207, 2013, 632] |
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| 269 | 639 | 453 | 543 | | [500, 530, 568, 546, 570, 559, 565, 1341, 453, 1069, 639, 1207, 2013, 632, 1721, 687, 1926, 801, 744, 2084, 929] |
| 270 | 1207 | 453 | 543 | | [530, 568, 546, 570, 559, 565, 1341, 453, 1069, 639, 1207, 2013, 632, 1721, 687, 1926, 801, 744, 2084, 929, 703] |
| 271 | 2013 | 453 | 543 | | [568, 546, 570, 559, 565, 1341, 453, 1069, 639, 1207, 2013, 632, 1721, 687, 1926, 801, 744, 2084, 929, 703, 1456] |
| 272 | 632 | 453 | 543 | | [546, 570, 559, 565, 1341, 453, 1069, 639, 1207, 2013, 632, 1721, 687, 1926, 801, 744, 2084, 929, 703, 1456, 2243] |
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| 276 | 801 | 453 | 543 | | [1341, 453, 1069, 639, 1207, 2013, 632, 1721, 687, 1926, 801, 744, 2084, 929, 703, 1456, 2243, 2309, 985, 677, 612] |
| 277 | 744 | 453 | 543 | | [453, 1069, 639, 1207, 2013, 632, 1721, 687, 1926, 801, 744, 2084, 929, 703, 1456, 2243, 2309, 985, 677, 612, 543] |
| 278 | 2084 | 543 | 651 | | [1069, 639, 1207, 2013, 632, 1721, 687, 1926, 801, 744, 2084, 929, 703, 1456, 2243, 2309, 985, 677, 612, 543, 567] |
| 279 | 929 | 543 | 651 | | [639, 1207, 2013, 632, 1721, 687, 1926, 801, 744, 2084, 929, 703, 1456, 2243, 2309, 985, 677, 612, 543, 567, 1397] |

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| 283 | 2309 | 543 | 651 | | [1721, 687, 1926, 801, 744, 2084, 929, 703, 1456, 2243, 2309, 985, 677, 612, 543, 567, 1397, 590, 890, 1585, 653] |
| 284 | 985 | 496 | 595 | | [687, 1926, 801, 744, 2084, 929, 703, 1456, 2243, 2309, 985, 677, 612, 543, 567, 1397, 590, 890, 1585, 653, 496] |
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| 286 | 612 | 496 | 595 | | [801, 744, 2084, 929, 703, 1456, 2243, 2309, 985, 677, 612, 543, 567, 1397, 590, 890, 1585, 653, 496, 504, 558] |
| 287 | 543 | 496 | 595 | 199 | [744, 2084, 929, 703, 1456, 2243, 2309, 985, 677, 612, 543, 567, 1397, 590, 890, 1585, 653, 496, 504, 558, 595] |
| 288 | 567 | 496 | 595 | 223 | [2084, 929, 703, 1456, 2243, 2309, 985, 677, 612, 543, 567, 1397, 590, 890, 1585, 653, 496, 504, 558, 595, 628] |
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| 291 | 890 | 496 | 595 | | [1456, 2243, 2309, 985, 677, 612, 543, 567, 1397, 590, 890, 1585, 653, 496, 504, 558, 595, 628, 637, 741, 569] |
| 292 | 1585 | 481 | 577 | | [2243, 2309, 985, 677, 612, 543, 567, 1397, 590, 890, 1585, 653, 496, 504, 558, 595, 628, 637, 741, 569, 481] |
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| 299 | 637 | 481 | 577 | | [1397, 590, 890, 1585, 653, 496, 504, 558, 595, 628, 637, 741, 569, 481, 518, 539, 912, 2318, 2128, 2059, 713] |
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| 313 | 663 | 487 | 584 | | [518, 539, 912, 2318, 2128, 2059, 713, 721, 586, 1200, 663, 601, 525, 564, 529, 543, 593, 778, 562, 489, 487] |
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| 316 | 564 | 397 | 476 | | [2318, 2128, 2059, 713, 721, 586, 1200, 663, 601, 525, 564, 529, 543, 593, 778, 562, 489, 487, 510, 562, 397] |
| 317 | 529 | 397 | 476 | | [2128, 2059, 713, 721, 586, 1200, 663, 601, 525, 564, 529, 543, 593, 778, 562, 489, 487, 510, 562, 397, 489] |
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| 321 | 562 | 397 | 476 | | [586, 1200, 663, 601, 525, 564, 529, 543, 593, 778, 562, 489, 487, 510, 562, 397, 489, 721, 547, 551, 1367] |
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| 323 | 487 | 397 | 476 | | [663, 601, 525, 564, 529, 543, 593, 778, 562, 489, 487, 510, 562, 397, 489, 721, 547, 551, 1367, 572, 1359] |
| 324 | 510 | 397 | 476 | | [601, 525, 564, 529, 543, 593, 778, 562, 489, 487, 510, 562, 397, 489, 721, 547, 551, 1367, 572, 1359, 548] |
| 325 | 562 | 397 | 476 | | [525, 564, 529, 543, 593, 778, 562, 489, 487, 510, 562, 397, 489, 721, 547, 551, 1367, 572, 1359, 548, 576] |

| Tag | Q _d | Q _d min | Q _d min20 | Q _{F,d} | Wertebereich |
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| 327 | 489 | 397 | 476 | | [529, 543, 593, 778, 562, 489, 487, 510, 562, 397, 489, 721, 547, 551, 1367, 572, 1359, 548, 576, 512, 562] |
| 328 | 721 | 397 | 476 | | [543, 593, 778, 562, 489, 487, 510, 562, 397, 489, 721, 547, 551, 1367, 572, 1359, 548, 576, 512, 562, 572] |
| 329 | 547 | 397 | 476 | | [593, 778, 562, 489, 487, 510, 562, 397, 489, 721, 547, 551, 1367, 572, 1359, 548, 576, 512, 562, 572, 586] |
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| 331 | 1367 | 397 | 476 | | [562, 489, 487, 510, 562, 397, 489, 721, 547, 551, 1367, 572, 1359, 548, 576, 512, 562, 572, 586, 692, 1668] |
| 332 | 572 | 397 | 476 | | [489, 487, 510, 562, 397, 489, 721, 547, 551, 1367, 572, 1359, 548, 576, 512, 562, 572, 586, 692, 1668, 677] |
| 333 | 1359 | 397 | 476 | | [487, 510, 562, 397, 489, 721, 547, 551, 1367, 572, 1359, 548, 576, 512, 562, 572, 586, 692, 1668, 677, 1224] |
| 334 | 548 | 397 | 476 | | [510, 562, 397, 489, 721, 547, 551, 1367, 572, 1359, 548, 576, 512, 562, 572, 586, 692, 1668, 677, 1224, 773] |
| 335 | 576 | 397 | 476 | | [562, 397, 489, 721, 547, 551, 1367, 572, 1359, 548, 576, 512, 562, 572, 586, 692, 1668, 677, 1224, 773, 533] |
| 336 | 512 | 397 | 476 | | [397, 489, 721, 547, 551, 1367, 572, 1359, 548, 576, 512, 562, 572, 586, 692, 1668, 677, 1224, 773, 533, 1722] |
| 337 | 562 | 489 | 586 | 218 | [489, 721, 547, 551, 1367, 572, 1359, 548, 576, 512, 562, 572, 586, 692, 1668, 677, 1224, 773, 533, 1722, 1439] |
| 338 | 572 | 512 | 614 | 228 | [721, 547, 551, 1367, 572, 1359, 548, 576, 512, 562, 572, 586, 692, 1668, 677, 1224, 773, 533, 1722, 1439, 2322] |
| 339 | 586 | 512 | 614 | 242 | [547, 551, 1367, 572, 1359, 548, 576, 512, 562, 572, 586, 692, 1668, 677, 1224, 773, 533, 1722, 1439, 2322, 2326] |
| 340 | 692 | 512 | 614 | | [551, 1367, 572, 1359, 548, 576, 512, 562, 572, 586, 692, 1668, 677, 1224, 773, 533, 1722, 1439, 2322, 2326, 1322] |
| 341 | 1668 | 512 | 614 | | [1367, 572, 1359, 548, 576, 512, 562, 572, 586, 692, 1668, 677, 1224, 773, 533, 1722, 1439, 2322, 2326, 1322, 729] |
| 342 | 677 | 512 | 614 | | [572, 1359, 548, 576, 512, 562, 572, 586, 692, 1668, 677, 1224, 773, 533, 1722, 1439, 2322, 2326, 1322, 729, 928] |
| 343 | 1224 | 512 | 614 | | [1359, 548, 576, 512, 562, 572, 586, 692, 1668, 677, 1224, 773, 533, 1722, 1439, 2322, 2326, 1322, 729, 928, 665] |
| 344 | 773 | 512 | 614 | | [548, 576, 512, 562, 572, 586, 692, 1668, 677, 1224, 773, 533, 1722, 1439, 2322, 2326, 1322, 729, 928, 665, 752] |
| 345 | 533 | 512 | 614 | 189 | [576, 512, 562, 572, 586, 692, 1668, 677, 1224, 773, 533, 1722, 1439, 2322, 2326, 1322, 729, 928, 665, 752, 760] |
| 346 | 1722 | 512 | 614 | | [512, 562, 572, 586, 692, 1668, 677, 1224, 773, 533, 1722, 1439, 2322, 2326, 1322, 729, 928, 665, 752, 760, 1117] |
| 347 | 1439 | 533 | 639 | | [562, 572, 586, 692, 1668, 677, 1224, 773, 533, 1722, 1439, 2322, 2326, 1322, 729, 928, 665, 752, 760, 1117, 1098] |
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| 352 | 928 | 533 | 639 | | [677, 1224, 773, 533, 1722, 1439, 2322, 2326, 1322, 729, 928, 665, 752, 760, 1117, 1098, 1516, 2076, 1296, 744, 700] |
| 353 | 665 | 533 | 639 | | [1224, 773, 533, 1722, 1439, 2322, 2326, 1322, 729, 928, 665, 752, 760, 1117, 1098, 1516, 2076, 1296, 744, 700, 685] |
| 354 | 752 | 533 | 639 | | [773, 533, 1722, 1439, 2322, 2326, 1322, 729, 928, 665, 752, 760, 1117, 1098, 1516, 2076, 1296, 744, 700, 685, 671] |
| 355 | 760 | 533 | 639 | | [533, 1722, 1439, 2322, 2326, 1322, 729, 928, 665, 752, 760, 1117, 1098, 1516, 2076, 1296, 744, 700, 685, 671, 685] |
| 356 | 1117 | 665 | 798 | | [1722, 1439, 2322, 2326, 1322, 729, 928, 665, 752, 760, 1117, 1098, 1516, 2076, 1296, 744, 700, 685, 671, 685] |
| 357 | 1098 | 665 | 798 | | [1439, 2322, 2326, 1322, 729, 928, 665, 752, 760, 1117, 1098, 1516, 2076, 1296, 744, 700, 685, 671, 685] |
| 358 | 1516 | 665 | 798 | | [2322, 2326, 1322, 729, 928, 665, 752, 760, 1117, 1098, 1516, 2076, 1296, 744, 700, 685, 671, 685] |
| 359 | 2076 | 665 | 798 | | [2326, 1322, 729, 928, 665, 752, 760, 1117, 1098, 1516, 2076, 1296, 744, 700, 685, 671, 685] |
| 360 | 1296 | 665 | 798 | | [1322, 729, 928, 665, 752, 760, 1117, 1098, 1516, 2076, 1296, 744, 700, 685, 671, 685] |
| 361 | 744 | 665 | 798 | 400 | [729, 928, 665, 752, 760, 1117, 1098, 1516, 2076, 1296, 744, 700, 685, 671, 685] |
| 362 | 700 | 665 | 798 | 356 | [928, 665, 752, 760, 1117, 1098, 1516, 2076, 1296, 744, 700, 685, 671, 685] |
| 363 | 685 | 665 | 798 | 341 | [665, 752, 760, 1117, 1098, 1516, 2076, 1296, 744, 700, 685, 671, 685] |
| 364 | 671 | 671 | 805 | 327 | [752, 760, 1117, 1098, 1516, 2076, 1296, 744, 700, 685, 671, 685] |
| 365 | 685 | 671 | 805 | 341 | [760, 1117, 1098, 1516, 2076, 1296, 744, 700, 685, 671, 685] |

Neue Berechnung (/)