

A_{Eo} : 51.20 km²
 PNP : NN+ 427.88 m
 Lage : 283.00 km oberhalb der Mündung links



Pegel : Eisfeld-Bahnbrücke Nr. 420001
 Gewässer: Werra
 Gebiet : Werra

m³/s

Tag	2001		2002													
	Nov	Dez	Jan	Feb	Mrz	Apr	Mai	Jun	Jul	Aug	Sep	Okt	Nov	Dez		
1.	0.480	4.25	R 0.650	4.13	5.57	0.910	0.300	0.340	0.340	0.210	0.180	0.180	1.29	1.88		
2.	0.480	4.61	R 0.590	3.10	4.01	0.840	0.340	0.340	0.380	0.210	0.180	0.180	2.42	1.79		
3.	0.480	4.01	R 0.530	2.60	2.90	0.770	0.340	0.300	0.340	0.210	0.180	0.180	2.80	1.70		
4.	0.480	3.65	R 0.530	2.24	2.33	0.650	0.430	0.300	0.300	0.210	0.180	0.180	3.10	1.53		
5.	0.480	3.89	R 0.530	1.88	1.88	0.590	0.430	0.300	0.300	0.210	0.210	0.210	2.70	1.37		
6.	0.480	6.05	R 0.530	1.70	1.61	0.590	0.380	0.770	0.300	0.210	0.210	0.480	2.33	1.21		
7.	0.530	5.45	R 0.530	1.37	1.70	0.590	0.340	0.770	0.300	0.240	0.180	0.380	1.97	1.13		
8.	2.80	4.37	0.530	1.21	1.70	0.530	0.300	0.650	0.300	0.270	0.180	0.300	1.70	0.980		
9.	2.51	3.32	0.530	1.45	1.61	0.480	0.340	0.530	0.270	0.270	0.180	0.240	3.00	0.910		
10.	1.97	2.70	0.530	3.43	1.61	0.430	0.340	0.530	0.430	0.240	0.240	0.240	2.70	0.770		
11.	1.79	2.33	0.530	3.65	1.53	0.430	0.340	0.530	0.380	0.210	0.300	0.240	3.65	0.650		
12.	1.70	2.06	0.480	5.33	1.45	0.430	0.480	0.530	0.300	0.340	0.210	0.240	3.43	0.590		
13.	1.61	1.70	0.480	8.90	1.37	0.430	0.480	0.480	0.270	0.270	0.180	0.240	3.43	0.590		
14.	1.45	1.53	0.480	7.04	1.37	0.480	0.380	0.430	0.380	0.240	0.180	0.240	3.10	0.690		
15.	1.37	1.37	0.480	4.85	1.29	0.430	0.380	0.430	0.270	0.210	0.180	0.270	2.60	0.590		
16.	1.29	1.21	0.430	3.32	1.13	0.430	0.340	0.480	0.270	0.210	0.180	0.380	2.24	0.650		
17.	1.13	1.13	0.430	2.51	1.05	0.380	0.340	0.430	0.270	0.300	0.180	0.530	1.97	0.590		
18.	1.05	1.05	0.430	1.97	1.05	0.340	0.300	0.430	0.300	0.300	0.180	0.430	1.61	0.590		
19.	1.05	0.980	0.430	1.61	1.29	0.340	0.590	0.380	0.270	0.240	0.180	0.430	1.61	0.530		
20.	0.980	0.910	0.710	2.70	1.53	0.340	0.430	0.530	0.240	0.210	0.180	0.430	1.37	0.530		
21.	0.980	0.840	3.00	2.51	2.24	0.300	0.380	0.530	0.240	0.240	0.180	0.430	1.21	0.530		
22.	1.45	0.840	3.32	2.06	2.51	0.300	0.340	0.530	0.240	0.210	0.210	1.05	1.13	1.05		
23.	1.45	0.710	3.54	2.06	2.33	0.300	0.340	0.430	0.240	0.210	0.180	1.21	1.05	2.33		
24.	1.21	0.710	4.73	1.61	2.24	0.300	0.590	0.380	0.240	0.210	0.180	1.29	0.910	1.29		
25.	1.13	0.710	5.93	1.61	1.97	0.340	0.430	0.340	0.240	0.210	0.180	1.37	0.840	1.13		
26.	1.79	0.770	6.41	6.65	1.70	0.380	0.430	0.340	0.240	0.210	0.240	3.10	0.770	1.13		
27.	2.24	0.650	13.2	8.75	1.45	0.430	0.430	0.340	0.240	0.210	0.240	3.10	0.710	1.21		
28.	2.42	0.770	24.0	7.69	1.37	0.340	0.530	0.340	0.210	0.210	0.210	2.80	0.650	1.21		
29.	2.90	0.840	13.9		1.21	0.300	0.480	0.340	0.210	0.210	0.210	2.24	1.05	1.37		
30.	4.25	0.710	7.56		1.13	0.270	0.430	0.340	0.210	0.180	0.210	1.88	2.33	7.17		
31.		0.650	5.57		1.05		0.380		0.210		0.180	1.53		10.6		
Tageswerte	Tag	1.+	27.+	16.+	8.	17.+	30.	1.+	3.+	28.+	30.+	1.+	1.+	28.	19.+	
	NQ	0.480	0.650	0.430	1.21	1.05	0.270	0.300	0.300	0.210	0.180	0.180	0.650	0.530	0.530	
	MQ	1.46	2.09	3.27	3.50	1.84	0.456	0.399	0.446	0.282	0.229	0.197	0.839	1.99	1.56	
	HQ	5.57	7.04	26.1	9.44	6.53	0.980	0.980	2.24	1.88	1.61	0.710	4.73	4.73	14.8	
	Tag	8.	6.	28.	13.	1.	1.	12.	20.	10.	21.	10.	26.	11.	30.	
	h _N mm	74	109	171	165	96	23	21	23	15	12	10	44	101	81	
	h _A mm															
		1960/2001		1961/2002						42 Kalenderjahre ²						
	Jahr	1990	1990	1963	1963	1965	1974	1974	1976	1976	1976	1976	1976	1990	1990	
	NQ	0.010	0.100	0.130	0.120	0.060	0.230	0.120	0.050	0.020	0.010	0.030	0.070	0.010	0.100	
MNQ	0.512	0.672	0.574	0.612	0.713	0.804	0.416	0.328	0.292	0.222	0.234	0.324	0.490	0.673		
MQ	1.18	1.87	1.54	1.46	1.72	1.78	0.862	0.687	0.559	0.404	0.563	0.695	1.17	1.86		
MHQ	3.68	6.81	5.52	4.08	5.31	4.53	1.96	2.42	2.28	1.60	2.22	2.27	3.69	7.07		
HQ	16.3	37.6	26.1	14.7	18.3	18.9	9.80	19.2	9.92	6.15	22.8	9.24	16.3	37.6		
Jahr	1998	1967	2002	1966	1962	1962	1970	1967	1967	1972	1998	1998	1998	1967		
Mh _N mm	60	98	81	70	90	90	45	35	29	21	29	36	59	98		
Mh _A mm																
Hauptwerte			Abflussjahr (*) 2002				Kalenderjahr 2002				Unterschrittene Abflüsse m ³ /s					
			Jahr		Datum		Winter		Sommer		Jahr		Datum		1961/2002 42 Kalenderjahre ²	
															Obere Hüllkurve	
															Mittlere Werte	
															Untere Hüllkurve	
	NQ	m ³ /s	0.180 am 30.08.2002		0.270		0.180		0.180 am 30.08.2002		364		24.0		24.0	
	MQ	m ³ /s	1.24		2.09		0.399		1.24		363		13.9		13.9	
	HQ	m ³ /s	26.1 am 28.01.2002 bei W = 197 cm		26.1		4.73		26.1 am 28.01.2002 bei W = 197 cm		362		13.2		13.2	
	Nq	l/(skm ²)	3.52		5.27		3.52		3.52		361		8.90		10.6	
	Mq	l/(skm ²)	24.2		40.9		7.80		24.2		360		8.75		8.90	
	Hq	l/(skm ²)	510		510		92.4		510		359		7.69		8.75	
	h _N	mm	764		640		124		762		358		7.56		7.69	
	h _A	mm	764		640		124		762		357		7.04		7.56	
											356		6.65		7.17	
											355		5.45		5.57	
										350		3.10		3.00		
										340		4.01		3.43		
										330		3.10		3.00		
										320		2.51		2.51		
										300		1.88		1.88		
										270		1.37		1.37		
										240		0.840		0.910		
										210		0.530		0.530		
										183		0.480		0.480		
										150		0.430		0.430		
										130		0.340		0.340		
										120		0.340		0.340		
										110		0.340		0.340		
										100		0.300		0.300		
										90		0.300		0.300		
										80		0.270		0.270		
										70		0.240		0.240		
										60		0.240		0.240		
										50		0.210		0.210		
										40		0.210		0.210		
										30		0.210		0.210		
										25		0.180		0.180		
										20		0.180		0.180		
										15		0.180		0.180		
										10		0.180		0.180		
										9		0.180		0.180		
										8		0.180		0.180		
										7		0.180		0.180		
										6		0.180		0.180		
										5		0.180		0.180		
										4		0.180		0.180		
										3		0.180		0.180		
										2		0.180		0.180		
										1		0.180		0.180		
										0		0.180		0.180		
Extremwerte			Niedrigwasser				Hochwasser									
			m ³ /s		Datum		m ³ /s		l/(skm ²)		cm		Datum			
	1	0.010	0.195	10.11.1990	37.6	734			24.12.1967							

A_{Eo} : 220.80 km²
 PNP : HN+ 355.00 m
 Lage : 260.00 km oberhalb der Mündung rechts



Pegel : Ebenhards Nr. 420011
 Gewässer: Werra
 Gebiet : Werra

m³/s

Tag	2001		2002													
	Nov	Dez	Jan	Feb	Mrz	Apr	Mai	Jun	Jul	Aug	Sep	Okt	Nov	Dez		
1.	1.12	6.45	1.59	11.3	15.1	2.61	1.18	1.06	0.760	0.630	0.470	0.470	2.91	6.45		
2.	1.01	6.75	R 1.66	9.16	11.3	2.43	1.31	1.01	0.760	0.530	0.500	0.470	4.56	5.13		
3.	0.910	6.04	RR 1.52	7.80	8.99	2.25	1.18	0.960	0.810	0.500	0.500	0.470	6.17	4.56		
4.	0.810	5.52	RR 1.52	6.75	7.65	2.09	1.31	0.910	0.760	0.470	0.500	0.530	6.75	4.01		
5.	0.810	6.30	D 1.52	6.04	6.60	2.01	1.45	0.860	0.710	0.530	0.500	0.530	5.26	3.68		
6.	0.860	11.7	R 1.52	6.04	5.91	1.94	1.31	2.34	0.670	0.530	0.560	1.06	4.56	3.24		
7.	0.960	9.50	RR 1.52	5.13	5.78	1.87	1.24	2.80	0.670	0.670	0.500	0.910	4.23	2.91		
8.	4.56	7.35	RR 1.52	4.78	5.26	1.80	1.12	1.94	0.710	0.910	0.470	0.760	3.79	2.61		
9.	6.60	6.04	R 1.38	5.00	4.89	1.80	1.12	1.45	0.630	0.710	0.440	0.670	8.82	2.34		
10.	3.79	5.26	R 1.24	9.68	4.56	1.66	1.06	1.45	0.760	0.670	0.630	0.590	8.31	2.17		
11.	3.02	4.45	R 1.24	8.99	4.12	1.59	1.12	1.38	1.06	0.590	0.960	0.590	10.6	2.01		
12.	2.61	3.79	RR 1.18	11.5	3.90	1.59	1.59	1.31	0.810	0.860	0.670	0.560	7.97	1.87		
13.	2.43	3.35	RR 1.18	29.4	3.68	1.52	1.52	1.24	0.710	0.670	0.530	0.560	6.90	1.80		
14.	2.17	2.80	RR 1.18	20.7	3.46	1.80	1.24	1.18	1.18	0.590	0.530	0.560	6.04	1.73		
15.	2.01	2.43	RR 1.18	13.2	3.24	1.66	1.12	1.12	0.810	0.560	0.530	0.560	5.52	1.59		
16.	2.01	2.25	RR 1.12	10.0	3.02	1.52	1.06	1.12	0.760	0.530	0.500	0.960	4.67	1.59		
17.	1.87	2.17	RR 1.12	8.14	2.80	1.52	1.01	1.01	0.670	0.530	0.500	1.52	4.23	1.73		
18.	1.66	2.09	R 1.06	6.90	2.70	1.38	1.01	0.960	0.760	0.710	0.560	1.06	3.57	1.52		
19.	1.59	2.01	R 1.18	6.17	3.57	1.38	1.87	0.910	0.710	0.560	0.500	1.01	3.46	1.38		
20.	1.45	1.94	2.09	10.7	4.23	1.38	1.52	1.18	0.630	0.530	0.470	0.860	3.13	1.31		
21.	1.38	1.87	12.1	10.7	8.14	1.31	1.18	1.52	0.560	0.530	0.440	0.860	2.80	1.31		
22.	1.94	1.87	14.4	7.50	9.16	1.24	1.06	1.31	0.560	0.590	0.500	2.34	2.91	2.43		
23.	3.13	1.73	12.6	9.50	7.50	1.18	0.960	1.01	0.560	0.530	0.530	2.91	3.24	8.65		
24.	2.43	1.66	14.0	8.14	5.91	1.18	2.01	1.01	0.530	0.560	0.470	2.70	2.61	4.56		
25.	2.52	1.73	17.5	7.50	5.13	1.18	1.31	0.910	0.630	0.530	0.470	2.34	2.34	3.90		
26.	4.01	1.66	14.7	23.4	4.56	1.24	1.18	0.810	0.560	0.530	0.530	7.50	2.17	3.46		
27.	5.00	1.52	23.0	26.4	4.12	1.73	1.18	0.810	0.630	0.530	0.590	6.90	2.01	3.90		
28.	5.26	1.87	54.0	20.5	3.57	1.59	2.09	0.810	0.500	0.530	0.500	6.60	1.87	3.79		
29.	5.13	2.70	35.0	3.24	3.24	1.38	1.38	0.810	0.530	0.710	0.470	4.56	3.02	4.12		
30.	7.97	2.09	20.5	3.02	3.02	1.24	1.12	0.810	0.500	0.560	0.470	3.68	10.2	17.5		
31.		1.80	14.6	2.80	2.80		1.06		0.560	0.530		3.13		29.6		
Tageswerte	Tag	4.+	27.	18.	8.	18.	23.+	23.	26.+	28.+	4.	9.+	1.+	28.	20.+	
	NQ	0.810	1.52	1.06	4.78	2.70	1.18	0.960	0.810	0.500	0.470	0.440	0.470	1.87	1.31	
	MQ	2.70	3.83	8.42	11.1	5.42	1.64	1.29	1.20	0.692	0.594	0.526	1.88	4.82	4.41	
	HQ	12.1	14.6	58.3	38.2	18.6	2.70	3.02	5.13	2.70	2.34	1.80	10.8	14.4	48.0	
	Tag	8.	6.	28.	13.	1.	1.	19.	7.	14.	29.	1.	27.	11.	31.	
	h _N mm	32	46	102	122	66	19	16	14	8	7	6	23	57	54	
	h _A mm															
		1991/2001		1992/2002 11 Kalenderjahre												
	Jahr	1991	1991	1996	1997	1996	1993	1993	2000	1994+	1992-	1999	1997	1993+	1993+	
	NQ	0.430	0.470	0.480	0.730	0.740	1.07	0.640	0.300	0.330	0.150	0.340	0.400	0.480	0.600	
MNQ	1.17	1.29	1.57	2.20	2.31	1.68	0.895	0.617	0.574	0.517	0.577	0.813	1.31	1.36		
MQ	2.80	3.88	4.81	4.71	5.10	2.97	1.41	0.997	1.02	0.808	1.39	1.77	3.09	3.98		
MHQ	10.9	14.7	21.0	15.7	15.4	8.93	3.43	3.13	4.52	2.84	7.90	6.27	11.9	17.6		
HQ	60.2	34.4	58.3	41.4	31.4	41.4	6.39	6.99	9.42	5.04	56.4	22.5	60.2	48.0		
Jahr	1998	1993	2002	1997	1999	1994	1996	1995	1996	1993	1998	1998	1998	2002		
Mh _N mm	33	47	58	52	62	35	17	12	12	10	16	22	36	48		
Mh _A mm																
Hauptwerte			Abflussjahr (*) 2002				Kalenderjahr 2002				Unterschrittene Abflüsse m ³ /s					
			Jahr		Datum		Jahr		Datum		Abflussjahr (*) 2002		Kalenderjahr 2002		1992/2002 11 Kalenderjahre	
					Winter		Sommer				Obere Hüllkurve		Mittlere Werte		Untere Hüllkurve	
	NQ	m ³ /s	0.440	am 09.09.2002	0.810	0.440	0.440	am 09.09.2002	364	54.5	54.5	54.5	26.3	5.80		
	MQ	m ³ /s	3.23		5.46	1.03	3.45		363	35.6	35.6	35.6	22.2	5.66		
	HQ	m ³ /s	58.3	am 28.01.2002 bei W = 254 cm	58.3	10.8	58.3	am 28.01.2002 bei W = 254 cm	362	29.4	29.6	29.6	20.0	5.66		
	Nq	l/(skm ²)	1.99		3.67	1.99	1.99		361	26.4	29.4	29.4	17.0	5.53		
	Mq	l/(skm ²)	14.6		24.7	4.67	15.6		360	23.4	26.4	26.4	15.2	5.40		
	Hq	l/(skm ²)	264		264	48.9	264		359	23.0	23.4	24.2	14.0	5.40		
	h _N	mm							358	20.7	23.0	24.0	13.1	5.28		
	h _A	mm	461		387	74	493		357	20.5	20.7	21.5	12.2	5.20		
									356	20.5	20.5	20.5	11.6	5.16		
									350	14.0	14.6	14.6	9.08	4.49		
									340	10.0	10.7	10.7	7.14	4.05		
									330	8.14	8.82	8.82	6.00	3.72		
								320	6.90	7.50	7.50	5.08	3.40			
								300	5.13	5.26	5.26	4.00	2.64			
								270	3.02	3.68	3.94	2.91	1.83			
								240	2.01	2.43	2.82	2.23	1.40			
								210	1.59	1.66	2.23	1.82	1.16			
								183	1.38	1.38	1.91	1.52	0.980			
								150	1.12	1.18	1.59	1.19	0.830			
								130	1.01	1.06	1.45	1.07	0.780			
								120	0.960	1.01	1.38	1.01	0.730			
								110	0.860	0.910	1.31	0.950	0.730			
								100	0.810	0.810	1.25	0.890	0.680			
								90	0.760	0.760	1.19	0.860	0.640			
								80	0.670	0.670	1.13	0.810	0.640			
								70	0.630	0.630	1.07	0.740	0.600			
								60	0.560	0.560	1.01	0.690	0.560			
								50	0.560	0.560	1.01	0.640	0.520			
								40	0.530	0.530	0.950	0.600	0.510			
								30	0.530	0.530	0.890	0.560	0.470			
								25	0.500	0.500	0.840	0.530	0.470			
								20	0.500	0.500	0.840	0.530	0.430			
								15	0.500	0.500	0.790	0.480	0.430			
								10	0.470	0.470	0.790	0.440	0.400			
								9	0.470	0.470	0.790	0.440	0.400			
								8	0.470	0.470	0.790	0.440	0.360			
								7	0.470	0.470	0.790	0.440	0.360			
								6	0.470	0.470	0.790	0.430	0.360			
								5	0.470	0.470	0.790	0.430	0.360			
								4	0.470	0.470	0.790	0.400	0.360			
								3	0.470	0.470	0.740	0.400	0.330			
								2	0.							

A_{Eo} : 1170.00 km²
PNP : NN+ 281.65 m
Lage : 223.00 km oberhalb der Mündung rechts



Pegel : Meiningen Nr. 420020
Gewässer: Werra
Gebiet : Werra

m³/s

	Tag	2001		2002												
		Nov	Dez	Jan	Feb	Mrz	Apr	Mai	Jun	Jul	Aug	Sep	Okt	Nov	Dez	
Tageswerte	1.	7.00	35.1	12.0	70.8	85.7	18.5	9.05	9.05	5.60	5.60	4.11	3.60	18.2	32.1	
	2.	6.80	37.3	12.0	61.0	67.3	17.7	9.80	8.30	5.80	4.83	3.93	4.29	23.3	27.6	
	3.	6.60	35.1	R11.3	52.5	58.2	16.2	9.30	7.83	5.60	4.29	3.76	4.47	29.4	26.3	
	4.	6.40	33.6	R11.0	46.0	50.5	15.7	10.0	7.20	5.40	4.29	3.76	5.01	34.3	24.2	
	5.	6.40	35.1	R10.8	38.5	43.3	15.0	10.8	7.00	5.40	4.65	3.76	4.83	31.0	22.7	
	6.	6.40	44.7	R10.5	36.5	36.9	14.5	10.3	15.0	5.20	4.29	3.60	10.8	27.6	21.2	
	7.	6.60	47.0	R10.5	32.4	35.8	13.7	10.3	17.7	5.20	5.20	3.45	8.80	25.4	19.7	
	8.	14.8	41.1	R 9.80	29.0	32.8	13.1	9.55	14.0	5.01	5.20	3.45	7.00	23.9	18.5	
	9.	25.7	36.5	R 9.30	28.7	30.7	12.8	9.05	11.5	4.83	6.40	3.30	6.40	35.8	17.1	
	10.	17.7	32.1	R 8.55	40.3	29.4	12.6	9.30	11.8	6.20	6.20	5.60	6.00	38.5	15.7	
	11.	15.5	28.3	R 8.30	41.1	27.2	12.0	11.5	11.0	7.61	5.01	7.61	5.80	45.2	15.0	
	12.	15.0	26.3	R 7.83	46.5	25.1	11.8	12.0	10.5	6.00	6.80	4.83	5.60	43.3	14.5	
	13.	15.7	24.5	7.83	82.2	24.2	11.5	12.3	10.0	5.40	6.00	3.93	5.60	39.0	13.7	
	14.	14.5	21.2	7.83	92.0	23.0	12.6	10.3	9.55	7.40	5.20	3.76	5.60	36.9	13.7	
	15.	13.4	19.1	7.83	69.4	22.1	12.0	9.80	8.80	6.00	4.83	3.76	5.60	33.6	13.1	
	16.	12.8	18.0	7.61	59.3	21.5	11.3	9.30	8.55	5.60	4.65	3.60	7.61	30.0	13.1	
	17.	12.3	17.1	7.40	52.0	20.6	11.0	8.80	8.06	6.20	4.47	3.60	10.0	27.2	13.4	
	18.	11.8	16.2	7.20	43.8	19.4	10.5	8.30	7.40	6.80	4.65	3.60	10.8	24.5	12.0	
	19.	11.5	15.7	7.40	36.2	23.0	10.5	10.8	7.20	5.80	4.29	3.60	10.5	23.3	11.0	
	20.	11.0	15.0	9.05	45.2	27.6	10.0	10.5	7.00	5.20	4.11	3.60	9.80	22.1	10.3	
	21.	10.5	13.1	29.7	50.5	35.1	9.55	9.30	8.06	4.83	4.11	3.45	9.55	20.0	10.0	
	22.	12.0	13.4	47.0	39.9	37.3	9.05	8.55	7.61	4.83	4.11	3.93	15.5	18.8	14.2	
	23.	15.5	12.8	42.0	43.3	36.5	8.80	8.06	7.00	4.65	4.29	4.29	20.9	19.4	38.5	
	24.	13.4	11.5	47.0	42.9	31.7	9.05	13.1	6.60	4.65	4.11	3.76	20.0	17.7	26.3	
	25.	13.7	12.0	59.3	42.5	29.7	9.05	11.3	6.60	4.83	4.11	3.45	17.1	16.5	24.2	
	26.	17.1	13.4	58.2	75.0	27.9	8.80	10.5	6.40	4.83	3.93	4.65	30.0	16.2	22.7	
	27.	22.7	12.3	75.0	112	26.6	11.3	10.3	6.00	5.01	4.11	4.47	30.3	15.5	23.9	
	28.	24.5	13.4	150	109	24.5	11.0	15.5	5.80	4.65	6.60	4.11	32.4	14.2	23.3	
	29.	26.3	16.0	156		22.4	10.3	12.0	5.80	4.29	5.40	3.76	25.7	16.0	23.3	
	30.	35.5	14.2	114		20.9	9.80	10.5	5.60	4.65	5.01	3.60	22.7	34.0	57.6	
	31.		13.1	90.2		19.7		10.3		5.01	4.29		20.3		126	
Tag		4.+	24.	18.	9.	18.	23.+	23.	30.	29.	26.	9.	1.	28.	21.	
NQ		6.40	11.5	7.20	28.7	19.4	8.80	8.06	5.60	4.29	3.93	3.30	3.60	14.2	10.0	
MQ		14.3	23.4	33.9	54.2	32.8	12.0	10.3	8.76	5.43	4.90	4.00	12.3	26.7	24.0	
HQ		37.3	54.5	171	127	99.0	19.7	21.8	23.9	11.0	12.3	10.0	38.5	54.5	136	
Tag		30.	6.	29.	27.	1.	1.	11.	7.	11.	28.	10.	27.	11.	31.	
h _N mm		32	53	78	112	75	27	24	19	12	11	9	28	59	55	
h _A mm																
		1918/2001		1919/2002 84 Kalenderjahre ²												
Jahr		1921	1959	1949	1942	1963	1921	1960	1920	1922	1959	1959	1949	1921	1959	
NQ		1.65	1.67	2.30	2.32	2.45	3.40	3.23	1.85	1.60	1.74	1.48	1.55	1.65	1.67	
MNQ		6.89	8.15	9.60	10.4	11.0	11.9	7.08	5.63	4.92	4.35	4.49	5.05	7.01	8.21	
MQ		13.0	18.2	21.1	20.3	22.3	20.8	11.6	9.37	8.49	7.02	7.48	9.48	13.3	18.3	
MHQ		31.9	50.2	58.6	50.8	54.1	42.5	24.6	24.4	21.6	17.6	17.3	23.0	32.5	51.0	
HQ		139	236	209	151	211	195	109	117	99.6	102	156	89.5	139	236	
Jahr		1998	1967	1979	1946	1981	1994	1941	1933	1966	1981	1998	1960	1998	1967	
Mh _N mm		29	42	48	42	51	46	27	21	19	16	17	22	29	42	
Mh _A mm																
Hauptwerte			Abflussjahr (*) 2002				Kalenderjahr 2002				Unterschrittene Abflüsse m ³ /s					
			Jahr	Datum	Winter	Sommer	Jahr	Datum	Abflussjahr (*) 2002		Kalenderjahr 2002		1919/2002 84 Kalenderjahre ²		Untere Hüllkurve	
	NQ	m ³ /s	3.30	am 09.09.2002	6.40	3.30	3.30	am 09.09.2002					202		101	
	MQ	m ³ /s	17.8		28.2	7.64	18.9						194		85.7	
	HQ	m ³ /s	171	am 29.01.2002 bei W = 342 cm	171	38.5	171	am 29.01.2002 bei W = 342 cm					146		76.6	
	Nq	l/(skm ²)	2.82		5.47	2.82	2.82						109		61.4	
	Mq	l/(skm ²)	15.2		24.1	6.53	16.2						109		58.7	
	Hq	l/(skm ²)	146		146	32.9	146						101		55.9	
	h _N	mm											93.4		53.2	
	h _A	mm	481		377	104	509						79.7		42.9	
			1919/2002 (*) 84 Jahre ²				1919/2002				Untere Hüllkurve					
	NQ	m ³ /s	1.48	am 02.09.1959	1.65	1.48	1.48	am 02.09.1959					202		11.1	
	MNQ	m ³ /s	3.17		5.05	3.41	3.25						194		9.56	
	MQ	m ³ /s	14.1		19.3	8.91	14.1						146		7.97	
	MHQ	m ³ /s	103		98.9	44.4	103						149		7.18	
	HQ	m ³ /s	236	am 24.12.1967 bei W = 402 cm	236	156	236	am 24.12.1967 bei W = 402 cm					13.7		6.74	
	HQ ₁	m ³ /s											13.3		6.33	
	HQ ₅	m ³ /s											12.6		5.96	
	MNQ	l/(skm ²)	2.71		4.32	2.91	2.78						11.9		5.60	
	Mq	l/(skm ²)	12.0		16.5	7.62	12.0						11.4		5.30	
MHq	l/(skm ²)	87.9		84.5	37.9	88.2						11.0		4.96		
Mh _N	mm											10.5		4.68		
Mh _A	mm	379		258	121	380						9.82		4.34		
		Niedrigwasser				Hochwasser				Untere Hüllkurve						
		m ³ /s	l/(skm ²)	Datum	m ³ /s	l/(skm ²)	cm	Datum					9.82		4.00	
1		1.48	1.26	02.09.1959	236	202	402	24.12.1967					8.37		3.58	
2		1.55	1.32	21.10.1949	211	180	402	11.03.1981					8.64		3.21	
3		1.58	1.35	02.09.1976	209	179	395	01.01.1979					8.64		3.21	
4		1.60	1.37	11.07.1922	200	171	399	06.01.1982					8.41		2.95	
5		1.65	1.41	27.11.1921	195	167	359	13.04.1994					7.72		2.67	
6		1.65	1.41	02.07.1920	171	146	342	29.01.2002					7.49		2.54	
7		1.83	1.56	07.07.1952	169	144	333	02.01.1987					7.49		2.54	
8		1.83	1.56	21.09.1947	157	134	364	31.03.1962					7.49		2.40	
9		1.91	1.63	05.07.1957	156	133	325	16.09.1998					7.26		2.30	
10		1.95	1.67	05.09.1964	151	129	360	19.12.1965					7.26		2.15	

(*) Abflussjahr: 1.11. des Vorjahres bis 31.10.
Hochwasserscheitelwerte seit 1980 durch Talsperrenrückhaltung reduziert
10 Tage Randeis
²Vorsicht: 1.2% Lücken im Zeitraum 1919/2002
³Ausgefallenes Abflussjahr: 1945

A_{Eo} : 1774.00 km²
 PNP : NN+ 242.66 m
 Lage : 195.00 km oberhalb der Mündung links



Pegel : Breitungen Nr. 420070
 Gewässer: Werra
 Gebiet : Werra

m³/s

Tag	2001		2002												
	Nov	Dez	Jan	Feb	Mrz	Apr	Mai	Jun	Jul	Aug	Sep	Okt	Nov	Dez	
1.	7.55	48.1	14.0	87.7	115	24.7	12.5	11.6	7.55	7.71	6.31	5.41	24.9	51.8	
2.	7.55	50.2	13.6	75.9	92.2	23.4	12.9	10.7	8.04	6.77	6.15	5.56	34.9	42.4	
3.	7.08	46.9	R12.7	67.0	78.7	21.7	12.7	10.2	7.87	6.00	5.85	6.00	47.8	39.1	
4.	6.77	43.6	R11.6	61.5	70.5	20.6	15.2	9.70	7.55	6.00	5.85	6.77	59.4	35.2	
5.	6.92	46.3	R11.6	53.0	63.5	19.7	16.0	9.36	7.39	6.61	5.71	6.92	54.2	32.2	
6.	6.92	54.6	R11.5	48.1	56.6	18.6	14.6	19.1	7.24	6.31	5.56	15.0	45.1	29.5	
7.	7.24	62.0	R11.3	43.0	53.0	17.8	14.6	22.4	7.24	7.08	5.71	14.2	40.0	26.4	
8.	16.6	56.2	R11.1	38.2	49.4	17.2	13.6	17.8	7.08	8.69	5.41	11.3	38.8	24.4	
9.	37.0	49.4	R10.7	37.0	45.1	16.6	12.7	15.0	6.77	9.19	5.26	9.70	55.0	22.7	
10.	21.7	42.4	R 9.87	51.8	42.7	16.2	12.7	15.2	8.04	9.03	6.92	9.19	63.0	20.8	
11.	18.0	36.7	R 9.53	53.0	39.7	15.8	15.6	14.6	9.70	8.20	11.3	8.69	67.5	19.7	
12.	16.6	33.4	RR 9.19	59.4	36.4	15.4	15.0	13.6	8.20	9.70	7.71	8.20	67.5	18.9	
13.	18.4	30.4	RR 9.03	94.0	34.6	15.2	17.2	12.9	7.24	8.86	6.31	8.04	61.0	18.0	
14.	16.8	25.9	RR 9.03	109	33.1	16.6	14.2	12.7	10.4	7.55	5.85	7.87	57.8	17.8	
15.	15.4	22.4	RR 8.86	89.5	31.3	16.0	13.3	12.2	8.36	7.08	5.85	8.20	51.4	17.4	
16.	14.6	20.6	R 8.53	77.3	29.5	15.0	12.7	11.8	7.55	6.77	5.56	10.6	45.1	17.0	
17.	13.8	18.9	R 8.53	69.0	27.7	14.6	12.2	11.1	9.70	7.08	5.12	14.4	40.0	17.6	
18.	13.3	18.2	8.36	63.0	26.4	14.0	11.6	10.4	10.7	7.24	5.12	14.4	34.9	16.4	
19.	12.7	17.6	8.53	54.2	30.4	13.8	12.9	9.87	8.53	6.77	5.26	15.6	31.9	14.8	
20.	12.4	16.8	10.2	58.6	39.1	13.3	13.5	9.70	7.55	6.31	5.26	14.4	30.1	14.4	
21.	11.8	14.8	35.8	69.0	53.0	12.7	12.0	10.4	6.92	6.31	5.12	13.6	26.4	13.8	
22.	12.7	15.0	63.0	58.2	57.8	12.4	11.3	10.2	6.77	6.00	5.41	19.9	24.9	17.2	
23.	17.6	14.2	59.8	61.0	59.8	12.0	10.9	9.53	6.61	6.15	6.31	32.8	25.2	60.6	
24.	15.2	13.1	62.5	62.5	50.6	12.7	14.6	9.03	6.61	6.00	6.00	31.3	23.2	41.8	
25.	15.4	13.6	71.0	59.8	45.7	12.9	13.6	8.69	6.77	6.31	5.41	25.2	21.7	36.4	
26.	19.7	14.6	72.4	90.4	41.8	12.2	12.7	8.53	6.77	5.71	7.71	45.1	20.6	32.8	
27.	28.6	13.5	83.6	128	37.9	14.2	12.4	8.20	7.08	7.24	7.08	46.0	19.7	34.9	
28.	31.9	14.8	131	138	34.3	14.6	18.4	7.87	6.46	12.0	6.31	53.4	18.2	33.7	
29.	34.6	18.9	157		30.7	13.6	14.8	7.87	6.00	8.20	5.71	40.9	20.4	32.5	
30.	49.0	16.6	144		28.6	13.5	13.1	7.71	6.61	6.61	5.41	33.1	48.4	72.4	
31.		14.8	109		26.7		12.4		6.92	6.77		28.0		133	
Tag	4.	24.	18.	9.	18.	23.	23.	30.	29.	26.	17.4	1.	28.	21.	
NQ	6.77	13.1	8.36	37.0	26.4	12.0	10.9	7.71	6.00	5.71	5.12	5.41	18.2	13.8	
MQ	17.1	29.2	38.6	69.9	47.2	15.9	13.6	11.6	7.62	7.34	6.08	18.4	40.0	32.4	
HQ	54.2	66.5	160	143	129	25.7	21.3	27.7	13.1	26.7	13.3	60.6	77.3	145	
Tag	30.	6.	29.	28.	1.	1.	11.	7.	14.	27.	11.	27.	11.	31.	
h _N mm			58	95	71	23	21	17	12	11	9	28	58	49	
h _A mm															
	1964/2001		1965/2002 38 Kalenderjahre												
Jahr	1971	1991	1977	1972	1972	1991	1992	1976	1976	1976	1976	1976	1971	1991	
NQ	1.72	3.16	1.79	3.05	4.50	6.59	4.26	2.13	0.940	2.48	3.20	3.20	1.72	3.16	
MNQ	9.45	12.9	13.9	16.6	17.6	19.9	11.3	8.87	7.57	6.20	6.34	7.09	9.83	13.0	
MQ	17.3	29.6	31.6	29.9	35.7	33.9	18.6	14.2	11.9	9.53	10.0	12.4	18.0	30.1	
MHQ	40.6	77.4	85.9	68.3	76.3	65.2	34.9	33.3	25.7	22.5	22.7	27.3	41.7	80.6	
HQ	131	232	253	153	227	287	92.0	114	118	145	125	87.7	131	232	
Jahr	1998	1974	1982	1995	1981	1994	1969	1966	1966	1981	1998	1998	1998	1974	
Mh _N mm			48	41	54	49	28	21	18	14	15	19	26	45	
Mh _A mm	25	45													
Hauptwerte	Abflussjahr (*) 2002		Kalenderjahr 2002				Unterschrittungs- dauer in Tagen		Unterschrittene Abflüsse m ³ /s						
	Jahr	Datum	Winter	Sommer	Jahr	Datum	Abfluss- jahr (*) 2002	Kalender- jahr 2002	1965/2002 38 Kalenderjahre			Mittlere Werte		Untere Hüllkurve	
	NQ	m ³ /s	5.12	am 17.09.2002	6.77	5.12	5.12	am 17.09.2002	364	157	157	272	133	48.9	
	MQ	m ³ /s	23.3		36.0	10.8	25.4		363	144	144	212	121	40.5	
	HQ	m ³ /s	160	am 29.01.2002 bei W = 429 cm	160	60.6	160	am 29.01.2002 bei W = 429 cm	362	138	138	197	112	39.8	
	Nq	l/(skm ²)	2.89		3.82	2.89	2.89		361	131	133	155	107	34.7	
	Mq	l/(skm ²)	13.1		20.3	6.08	14.3		360	128	131	147	103	33.7	
	Hq	l/(skm ²)	90.2		90.2	34.2	90.2		359	115	128	140	97.0	32.0	
	h _N	mm							358	109	115	134	91.9	32.0	
	h _A	mm	414		317	97	452		357	109	109	131	86.8	30.7	
									356	94.0	109	131	83.6	30.3	
									350	78.7	83.6	112	68.8	29.3	
									340	63.0	67.5	96.0	55.1	25.3	
									330	59.4	61.0	81.2	46.4	19.9	
									320	53.0	57.8	67.0	40.0	18.2	
								300	42.4	45.7	55.1	31.7	14.2		
								270	26.7	33.1	43.4	24.7	11.0		
								240	16.8	22.4	32.9	19.8	8.88		
								210	14.6	16.0	28.7	16.5	7.81		
								183	13.3	14.2	24.8	14.2	6.19		
								150	11.6	12.2	22.3	11.7	4.86		
								130	10.2	10.7	21.1	10.5	4.48		
								120	9.53	9.87	20.3	9.82	4.29		
								110	8.86	9.19	18.8	9.26	4.10		
								100	8.36	8.69	17.9	8.75	3.92		
								90	8.04	8.20	16.8	8.30	3.74		
								80	7.55	7.87	14.7	7.91	3.56		
								70	7.24	7.55	13.9	7.52	3.38		
								60	7.08	7.08	13.7	7.10	3.30		
								50	6.77	6.77	12.7	6.75	3.20		
								40	6.61	6.61	11.9	6.35	3.02		
								30	6.15	6.15	11.0	5.96	2.84		
								25	6.00	6.00	11.0	5.69	2.66		
								20	5.85	5.85	11.0	5.39	2.48		
								15	5.71	5.71	10.5	5.05	2.30		
								10	5.41	5.41	9.91	4.59	2.10		
								9	5.41	5.41	9.78	4.50	1.96		
								8	5.41	5.41	9.78	4.42	1.96		
								7	5.41	5.41	9.52	4.29	1.79		
								6	5.41	5.41	9.52	4.14	1.79		
								5	5.26	5.26	9.52	3.99	1.79		
								4	5.26	5.26	9.52	3.81	1.79		
								3	5.26	5.26	9.26	3.55	1.45		
								2	5.12	5.12	9.26	3.20	1.28		
								1	5.12	5.12	9.00	2.66	1.28		
								0	5.12	5.12	9.00	0.940	0.940		
Extremwerte	Niedrigwasser		Hochwasser												
	m ³ /s	l/(skm ²)	Datum	m ³ /s	l/(skm ²)	cm	Datum		</						

A_{Eo} : 2246.00 km²
 PNP : NN+ 222.72 m
 Lage : 164.80 km oberhalb der Mündung links



m³/s

Pegel : Vacha Nr. 420120
 Gewässer: Werra
 Gebiet : Werra

	Tag	2001		2002														
		Nov	Dez	Jan	Feb	Mrz	Apr	Mai	Jun	Jul	Aug	Sep	Okt	Nov	Dez			
Tageswerte	1.	10.9	54.4	21.1	126	158	37.0	18.0	16.0	9.10	10.0	7.85	6.73	35.7	60.4			
	2.	10.9	55.3	20.4	104	133	34.8	18.0	14.6	9.70	9.10	7.63	6.73	38.6	57.2			
	3.	10.3	54.9	19.4	89.7	110	32.8	18.7	13.6	10.0	7.40	7.40	7.18	54.4	54.0			
	4.	10.0	53.5	R16.0	80.2	95.7	30.8	28.4	12.9	9.40	7.18	7.40	8.08	60.9	49.8			
	5.	9.70	54.9	R16.0	72.6	86.5	29.2	30.4	12.6	9.40	7.63	7.40	8.08	62.3	46.2			
	6.	10.0	57.7	R16.0	65.9	77.6	27.6	25.2	23.6	8.80	7.63	7.18	17.6	59.0	43.0			
	7.	10.3	62.3	R16.0	59.5	72.1	26.0	24.8	30.4	8.80	8.80	6.95	20.1	54.4	39.5			
	8.	21.5	62.7	R16.0	54.0	67.9	24.8	22.2	26.0	8.80	10.9	6.95	15.3	53.0	36.2			
	9.	46.2	61.8	R16.0	50.2	61.8	24.0	20.8	20.8	7.85	12.6	6.73	12.9	59.0	33.2			
	10.	34.4	57.2	15.6	57.2	58.1	23.2	20.1	20.1	9.10	10.9	7.63	11.9	63.6	30.0			
	11.	26.4	50.7	14.2	61.3	54.4	22.2	24.4	20.1	11.9	12.2	16.3	10.9	70.2	28.0			
	12.	23.6	46.2	13.9	64.1	50.7	21.8	22.2	18.0	10.3	11.9	11.2	10.3	71.1	26.8			
	13.	26.0	43.5	13.6	89.2	48.0	21.5	26.8	17.3	8.80	12.6	7.85	10.0	72.6	25.2			
	14.	25.2	38.2	13.6	91.9	47.1	23.6	22.2	17.0	12.6	10.0	7.40	9.70	69.7	24.4			
	15.	22.2	33.2	13.2	119	45.3	23.6	20.4	16.6	11.5	9.10	7.40	9.70	66.9	24.0			
	16.	20.8	31.2	12.9	106	42.6	21.8	19.4	17.3	9.40	8.08	7.18	12.9	61.8	23.2			
	17.	20.1	28.8	12.6	93.5	40.3	21.1	18.7	14.6	14.9	8.08	6.95	18.7	56.7	24.0			
	18.	19.0	27.2	12.2	83.8	38.2	20.1	17.6	13.9	18.3	10.0	6.50	19.0	51.2	22.9			
	19.	18.3	26.4	12.6	75.1	40.8	19.4	18.7	12.9	12.9	8.08	6.73	21.1	46.2	20.8			
	20.	18.0	25.2	15.3	75.1	47.5	19.0	20.1	12.9	10.3	7.63	6.73	20.1	43.9	19.7			
	21.	17.0	22.9	41.2	76.6	60.0	18.0	17.6	13.2	9.40	7.63	6.50	17.6	39.5	19.0			
	22.	17.0	22.2	62.7	75.6	64.6	17.0	16.6	13.2	8.80	7.63	6.50	26.0	36.6	21.1			
	23.	24.8	21.5	63.6	74.1	67.9	16.6	16.0	12.2	8.08	7.18	7.85	43.0	36.2	57.2			
	24.	22.5	19.4	66.9	73.6	66.4	18.0	18.7	11.5	7.85	7.40	7.40	43.9	33.6	54.4			
	25.	22.2	20.4	69.2	75.6	61.8	19.0	19.7	10.9	7.85	7.63	6.73	35.2	31.2	51.2			
	26.	28.4	21.5	73.1	90.2	57.7	17.3	17.6	10.6	8.08	7.18	10.0	47.1	29.6	46.6			
	27.	39.0	20.1	82.8	109	53.0	19.4	16.6	10.3	9.10	6.95	9.40	52.1	28.0	47.5			
	28.	41.2	21.5	101	168	49.3	21.1	23.6	10.0	7.85	16.6	8.08	57.2	26.0	46.6			
	29.	43.5	30.0	164		45.3	19.7	21.8	9.70	7.18	10.9	7.18	51.2	27.2	44.8			
	30.	53.0	26.8	182		42.1	19.7	18.0	9.40	7.40	10.0	7.18	44.8	52.6	66.9			
	31.		23.6	155		39.5		17.3		8.80	8.80		39.9		92.4			
Hauptwerte	Tag	5.	24.	18.	9.	18.	23.	23.	30.	29.	27.	18.+	1.+	26.0	21.			
	NQ	9.70	19.4	12.2	50.2	38.2	16.6	16.0	9.40	7.18	6.95	6.50	6.73	28.0	19.0			
	MQ	23.4	37.9	44.2	84.3	64.0	23.0	20.7	15.4	9.75	9.28	7.79	23.1	49.7	39.9			
	HQ	55.8	63.6	187	172	170	38.6	32.8	33.2	21.1	25.6	18.3	58.6	75.6	100			
	Tag	30.	6.	30.	28.	1.	1.	4.	7.	18.	28.	11.	28.	11.	31.			
	h _N mm			53	91	76	27	25	18	12	11	9	28	57	48			
	h _A mm																	
			1921/2001		1922/2002 81 Kalenderjahre ²													
	Jahr	1959	1959	1954	1929	1929	1960	1960	1960	1922	1959	1959	1959	1959	1959	1959		
	NQ	3.07	2.21	3.35	3.41	3.87	4.56	3.61	2.52	2.00	2.74	1.90	1.55	3.07	2.21	2.21		
MNQ	11.7	13.1	15.7	18.6	20.0	21.0	13.1	10.7	8.90	7.98	7.99	8.59	12.0	13.3	13.3			
MQ	20.8	28.8	33.0	35.2	38.7	35.4	20.1	17.2	14.8	12.3	12.4	15.4	21.4	29.2	29.2			
MHQ	42.0	65.6	77.8	73.0	78.2	63.0	35.6	35.6	29.9	24.6	23.1	31.8	42.8	66.3	66.3			
HQ	154	314	271	321	246	284	102	194	161	189	123	153	154	314	314			
Jahr	1998	1967	1926	1946	1981	1994	1941	1933	1956	1981	1924	1960	1998	1967	1967			
Mh _N mm			39	38	46	41	24	20	18	15	14	18	25	35	35			
Mh _A mm	24	34																
Dauertabelle	Abflussjahr (*)		2002		Kalenderjahr		2002		Unterschreitungs-		Unterschrittene Abflüsse m ³ /s							
	Jahr		Datum		Winter		Sommer		Jahr		Datum		Abfluss-		Kalender-		1922/2002 81	
													jahr (*)		2002		Kalenderjahre ²	
													2002		2002		Obere	
																	Hüllkurve	
																	Mittlere	
																	Werte	
																	Untere	
																	Hüllkurve	
NQ	m ³ /s	6.50	am 18.09.2002	9.70	6.50	6.50	am 18.09.2002	364	182	182	302	151	36.6					
MQ	m ³ /s	29.9		45.7	14.4	32.3		363	168	168	226	136	31.0					
HQ	m ³ /s	187	am 30.01.2002 bei W = 356 cm	187	58.6	187	am 30.01.2002 bei W = 356 cm	362	164	164	194	121	31.0					
Nq	l/(skm ²)	2.89		4.32	2.89	2.89		361	158	158	185	110	30.9					
Mq	l/(skm ²)	13.3		20.4	6.39	14.4		360	155	155	174	102	28.8					
Hq	l/(skm ²)	83.3		83.3	26.1	83.3		359	133	133	166	96.7	27.7					
h _N	mm							358	126	126	160	92.0	27.0					
h _A	mm	420		319	102	453		357	119	119	153	87.7	26.8					
								356	110	110	150	83.9	25.7					
								350	93.5	93.5	128	70.8	23.6					
								340	76.6	77.6	97.4	59.0	21.4					
								330	69.2	72.6	83.9	50.4	20.5					
								320	62.7	66.9	78.7	44.3	20.0					
								300	53.5	57.7	65.9	36.0	15.3					
								270	39.0	46.2	56.7	28.4	11.8					
								240	25.2	32.8	50.6	22.9	9.32					
								210	21.1	23.6	43.8	19.2	7.58					
								183	19.0	20.1	37.8	16.4	6.00					
								150	16.6	17.3	30.1	13.7	4.56					
								130	13.9	15.3	27.9	12.2	4.00					
								120	12.9	13.6	26.5	11.6	3.86					
								110	12.2	12.9	25.1	11.0	3.73					
								100	10.9	11.9	23.9	10.4	3.61					
								90	10.3	10.9	22.6	9.89	3.32					
								80	10.0	10.0	21.2	9.38	3.07					
								70	9.40	9.40	20.4	8.80	2.96					
								60	8.80	8.80	18.8	8.22	2.74					
								50	8.08	8.08	17.5	7.66	2.52					
								40	7.85	7.85	16.0	7.04	2.41					
								30	7.40	7.40	15.3	6.42	2.31					
								25	7.40	7.40	14.7	6.00	2.21					
								20	7.40	7.18	14.0	5.55	2.21					
								15	7.18	7.18	13.6	5.05	2.12					
								10	6.95	6.95	13.1	4.56	2.03					
								9	6.73	6.73	13.1	4.43	1.96					
								8	6.73	6.73	13.1	4.39	1.96					
								7	6.73	6.73	13.1	4.26	1.96					
								6	6.73	6.73	12.6	4.11	1.96					
								5	6.73	6.73	12.6	3.87	1.90					
								4	6.73	6.73	12.6	3.69	1.90					
								3	6.73	6.73	12.6	3.32	1.90					
								2	6.50	6.50	12.4	2.96	1.80					
								1	6.50	6.50	12.4	2.69	1.80					
								0	6.50	6.50	12.2	1.55	1.55					

(*) Abflussjahr: 1.11. des Vorjahres bis 31.10. ab 1989 Folgepegel für den Pegel Dorndorf 1 / Werra mit Statistikfortschreibung 6 Tage Randeis
²Vorsicht: 3.7% Lücken im Zeitraum 1922/2002
³Ausgefallene Abflussjahre: 1931, 1932, 1945

A_{Eo} : 3039.00 km²
PNP : NN+ 203.39 m
Lage : 137.80 km



m³/s

Pegel : Gerstungen Nr. 420170
Gewässer: Werra
Gebiet : Werra

	Tag	2001		2002											
		Nov	Dez	Jan	Feb	Mrz	Apr	Mai	Jun	Jul	Aug	Sep	Okt	Nov	Dez
Tageswerte	1.	14.0	69.1	28.2	152	192	46.6	25.4	21.4	15.8	13.7	11.3	9.65	43.0	79.9
	2.	14.0	68.2	26.6	123	167	43.9	25.0	20.2	14.9	12.8	10.7	9.65	46.2	70.0
	3.	13.4	66.4	25.4	105	135	40.8	26.2	19.8	14.3	11.3	10.2	9.90	67.8	65.1
	4.	12.8	63.3	19.8	93.0	116	38.6	50.7	19.2	12.5	11.3	10.2	10.7	79.9	59.7
	5.	12.5	65.1	18.0	84.4	104	36.6	57.4	18.4	13.1	11.9	10.2	11.6	76.8	54.7
	6.	12.8	68.2	17.6	77.7	93.4	35.0	42.5	33.4	11.6	12.2	9.90	19.2	70.9	51.1
	7.	13.4	73.6	21.4	70.5	88.0	33.4	41.6	42.5	12.2	12.5	9.90	25.8	64.2	47.1
	8.	31.4	71.4	23.4	65.5	85.8	32.6	36.6	35.8	12.5	15.8	9.65	19.5	64.6	43.5
	9.	64.6	69.6	21.4	61.0	77.2	31.0	33.4	29.0	12.2	16.8	9.40	16.1	78.6	38.6
	10.	45.7	64.2	20.2	73.6	71.8	30.2	31.4	26.2	12.5	17.6	11.0	14.9	81.3	36.2
	11.	33.8	58.3	18.8	77.2	66.4	29.4	43.5	27.8	15.5	18.4	20.6	13.7	94.8	33.4
	12.	30.2	53.4	18.4	79.0	61.5	28.2	38.6	23.4	14.3	15.5	15.2	13.4	92.5	31.8
	13.	33.0	50.7	18.8	138	57.9	28.2	40.3	23.8	12.8	18.0	11.6	12.8	88.5	31.4
	14.	33.8	44.4	18.8	145	58.3	30.6	34.6	23.0	16.4	14.3	10.7	12.8	84.9	30.6
	15.	28.6	39.0	17.6	137	57.0	32.2	31.0	21.8	16.8	13.4	10.4	12.5	79.9	29.8
	16.	26.6	36.6	17.2	129	54.3	29.0	29.0	23.4	13.7	12.2	10.2	16.1	74.1	29.0
	17.	25.4	34.2	17.6	112	50.2	27.8	26.6	19.8	20.2	11.6	9.65	24.2	67.3	31.0
	18.	24.2	32.6	17.2	100	47.5	27.0	26.6	18.8	30.2	14.3	9.15	24.6	61.0	30.2
	19.	23.0	31.8	17.2	91.6	52.0	25.0	26.2	16.8	20.6	12.5	9.65	26.6	54.7	27.0
	20.	22.2	31.0	21.8	96.1	61.5	25.0	28.2	18.0	16.1	11.6	9.65	27.0	51.6	25.4
	21.	21.4	28.2	65.5	111	89.8	24.2	25.8	17.6	14.3	11.0	9.65	22.2	47.5	24.2
	22.	21.4	27.4	93.4	95.2	93.9	23.0	24.2	18.0	13.7	10.2	9.40	29.8	43.9	28.6
	23.	32.6	27.0	84.0	96.6	91.2	22.6	23.4	16.8	13.4	11.3	10.7	54.3	42.5	77.7
	24.	30.2	24.6	88.5	96.6	84.4	23.0	24.6	15.5	12.8	10.4	10.4	63.3	40.3	67.8
	25.	29.4	25.0	90.7	96.6	78.6	26.2	27.4	14.9	12.8	10.7	10.2	45.7	37.4	63.3
	26.	40.3	27.4	88.9	138	72.7	23.8	25.0	15.2	12.5	10.7	12.8	57.4	35.4	57.4
	27.	58.8	27.4	107	155	66.4	25.4	23.0	14.9	12.8	9.90	13.1	67.3	33.8	57.9
	28.	55.2	26.6	153	190	61.5	29.4	29.4	14.3	12.5	21.0	12.2	75.9	31.8	57.0
	29.	54.7	37.8	168		57.0	28.2	29.8	14.0	11.6	15.8	10.4	62.4	32.6	54.7
	30.	70.9	35.4	200		52.9	29.4	24.6	14.0	11.3	12.5	10.2	54.7	66.4	97.0
	31.		31.0	192		49.8		23.0			12.5		47.5		163
Tag		5.	24.	16.+	9.	18.	23.	27.+	29.+	30.	27.	18.	1.+	28.	21.
NQ		12.5	24.6	17.2	61.0	47.5	22.6	23.0	14.0	11.3	9.90	9.15	9.65	31.8	24.2
MQ		31.0	45.4	56.0	107	80.5	30.2	31.5	21.3	14.5	13.3	10.9	29.4	61.1	51.4
HQ		79.9	75.9	228	218	208	48.4	66.0	48.9	36.2	31.4	26.6	82.6	111	200
Tag		30.	7.	31.	28.	1.	1.	4.	7.	18.	28.	11.	28.	11.	31.
h _N mm		26	40	49	85	71	26	28	18	13	12	9	26	52	45
h _A mm															
		1931/2001		1932/2002 71 Kalenderjahre ²											
Jahr		1947	1947	1947	1963	1963	1933	1934	1934	1934	1934	1947	1947	1947	1947
NQ		1.78	4.62	5.14	4.79	4.99	9.80	5.00	3.70	2.10	3.40	2.04	3.05	1.78	4.62
MNQ		14.9	17.6	20.6	24.7	26.0	27.3	17.1	14.4	12.3	10.5	10.1	10.8	15.1	17.7
MQ		26.7	38.8	44.1	46.2	52.0	45.9	26.3	19.8	15.7	15.0	15.0	19.2	27.3	39.2
MHQ		61.6	90.3	107	96.3	112	86.0	50.8	54.5	45.0	35.2	30.8	44.8	62.8	92.6
HQ		254	342	312	300	400	268	184	342	237	222	123	205	254	342
Jahr		1940	1939	1982	1946	1942	1994	1941	1941	1956	1981	1998	1960	1940	1939
Mh _N mm		23	34	39	37	46	39	23	20	17	14	13	17	23	35
Mh _A mm															
Hauptwerte			Abflussjahr (*) 2002				Kalenderjahr 2002				Unterschrittene Abflüsse m ³ /s				
			Jahr	Datum	Winter	Sommer	Jahr	Datum	Unterschreitungs- dauer in Tagen	Abfluss- jahr (*) 2002	Kalender- jahr 2002	1932/2002 71 Kalenderjahre ²			
											Obere Hüllkurve	Mittlere Werte	Untere Hüllkurve		
	NQ	m ³ /s	9.15	am 18.09.2002	12.5	9.15	9.15	am 18.09.2002	364	200	200	371	210	52.0	
	MQ	m ³ /s	38.8		57.8	20.2	41.8		363	192	192	312	181	52.0	
	HQ	m ³ /s	228	am 31.01.2002 bei W = 464 cm	228	82.6	228	am 31.01.2002 bei W = 464 cm	362	192	192	312	158	47.3	
	Nq	l/(skm ²)	3.01		4.11	3.01	3.01		361	190	190	290	143	41.6	
	Mq	l/(skm ²)	12.8		19.0	6.64	13.8		360	168	168	290	135	40.4	
	Hq	l/(skm ²)	75.0		75.0	27.2	75.0		359	167	167	290	127	38.5	
	h _N	mm							358	155	163	280	120	36.5	
	h _A	mm	403		298	106	434		357	153	155	265	116	36.1	
									356	152	153	260	112	35.7	
									350	129	135	215	94.8	30.5	
									340	96.6	97.0	132	77.9	27.4	
									330	90.7	93.0	119	66.9	25.8	
								320	78.6	85.8	110	58.6	25.1		
								300	65.5	72.7	89.5	47.3	22.2		
								270	50.2	57.4	72.1	36.8	16.5		
								240	33.4	42.5	63.8	29.5	14.5		
								210	28.6	31.0	56.0	24.4	12.2		
								183	25.8	27.4	48.4	20.9	10.1		
								150	21.8	23.4	38.3	17.3	7.80		
								130	18.8	19.8	35.0	15.5	6.30		
								120	17.6	18.4	33.5	14.9	5.75		
								110	16.8	17.6	32.5	14.0	5.50		
								100	15.5	16.1	31.0	13.4	5.40		
								90	14.3	15.2	29.1	12.8	4.85		
								80	13.7	14.3	27.6	12.2	4.70		
								70	12.8	13.1	26.5	11.5	4.60		
								60	12.5	12.5	24.6	10.8	4.50		
								50	12.2	12.2	23.2	10.2	4.40		
								40	11.6	11.6	21.6	9.42	4.30		
								30	10.7	10.7	20.3	8.69	4.10		
								25	10.7	10.7	19.7	8.20	4.00		
								20	10.2	10.2	18.8	7.75	3.80		
								15	10.2	10.2	18.8	7.15	3.70		
								10	9.90	9.90	18.2	6.36	3.50		
								9	9.65	9.65	18.2	6.24	3.50		
								8	9.65	9.65	18.2	6.06	3.35		
								7	9.65	9.65	17.9	5.90	3.35		
								6	9.65	9.65	17.6	5.70	3.20		
								5	9.65	9.65	17.3	5.55	3.05		
								4	9.65	9.65	17.0	5.40	2.90		
								3	9.65	9.65	17.0	5.08	2.90		
								2	9.40	9.40	16.8	4.74	2.60		
								1	9.40	9.40	16.5	4.28	2.04		
								0	9.15	9.15	16.3	1.78	1.78		
Extremwerte			Niedrigwasser				Hochwasser								
			m ³ /s	I/(skm ²)	Datum	m ³ /s	I/(skm ²)	cm	Datum						
	1		1.78	0.586	20.11.1947	400	132		19.03.1942						
	2		2.10	0.691	13.07.1934	342	113		02.06.1941						
	3		3.22	1.06	26.07.1964	342	113		02.12.1939						
	4		3.70	1.22	28.08.1976	338	111		12.03.1981						
	5		4.19	1.38	16.10.1959	315	104		25.03.1947						
	6		4.60	1.51	11.08.1935	312	103		08.01.1982						
	7		4.79	1.58	26.02.1963	300	98.7		28.12.1947						
	8		4.79	1.58	27.07.1949	300	98.7		09.02.1946						
9		4.79	1.58	06.08.1946	290	95.4		14.03.1947							
10		4.94	1.63	18.09.1997	290	95.4		11.03.1947							

A_{Eo} : 4214.40 km²
 PNP : NN+ 178.06 m
 Lage : 90.50 km oberhalb der Mündung rechts



m³/s

Pegel : Frankenroda Nr. 420190
 Gewässer: Werra
 Gebiet : Werra

Tag	2001		2002													
	Nov	Dez	Jan	Feb	Mrz	Apr	Mai	Jun	Jul	Aug	Sep	Okt	Nov	Dez		
1.	16.4	82.6	32.8	215	229	60.1	36.8	27.3	24.5	20.6	18.2	15.2	55.0	135		
2.	17.6	79.0	30.4	165	232	55.9	34.4	25.2	24.5	20.6	17.0	15.2	57.6	106		
3.	17.0	79.0	29.6	134	188	52.5	36.0	25.2	21.8	19.4	17.0	14.7	92.5	93.4		
4.	15.8	71.8	28.8	116	154	49.1	60.1	23.8	20.6	18.2	16.4	15.8	120	83.5		
5.	15.2	73.6	28.0	102	136	45.7	84.4	23.8	18.8	18.8	16.4	17.0	110	76.3		
6.	15.2	79.9	28.0	93.4	121	44.0	66.4	33.6	19.4	19.4	15.8	25.9	97.0	70.0		
7.	15.8	88.9	24.5	83.5	113	42.4	62.8	53.3	17.0	19.4	15.8	36.0	87.1	63.7		
8.	26.6	84.4	26.6	77.2	110	40.8	55.0	55.0	18.8	24.5	15.8	28.8	82.6	57.6		
9.	78.1	81.7	24.5	69.1	98.8	37.6	49.1	40.8	18.8	27.3	15.2	25.2	113	51.6		
10.	60.1	75.4	23.1	80.8	89.8	37.6	45.7	36.0	18.8	25.2	14.7	21.8	120	46.5		
11.	41.6	67.3	21.8	93.4	81.7	36.8	54.2	36.8	22.4	28.8	27.3	20.0	128	43.2		
12.	35.2	61.9	21.8	89.8	75.4	36.0	57.6	33.6	22.4	27.3	25.2	19.4	137	40.8		
13.	35.2	56.7	21.2	141	70.0	35.2	53.3	31.2	20.0	29.6	19.4	18.8	121	39.2		
14.	39.2	51.6	21.2	182	70.9	38.4	48.2	32.0	21.8	25.2	17.0	18.8	112	38.4		
15.	33.6	44.0	20.6	155	73.6	40.8	42.4	31.2	25.2	21.8	16.4	18.2	104	37.6		
16.	30.4	40.8	20.0	154	70.9	37.6	39.2	33.6	21.2	20.0	16.4	20.0	97.0	36.0		
17.	28.8	38.4	20.0	139	71.8	35.2	36.0	29.6	22.4	18.8	15.8	28.0	88.0	37.6		
18.	27.3	36.0	20.0	124	68.2	35.2	33.6	27.3	43.2	23.1	14.7	32.0	79.0	38.4		
19.	26.6	35.2	20.0	113	71.8	33.6	33.6	25.9	33.6	20.6	14.7	34.4	70.9	34.4		
20.	25.2	35.2	22.4	119	83.5	32.8	35.2	25.2	25.2	20.0	14.7	37.6	65.5	32.8		
21.	24.5	32.0	74.5	149	113	32.0	33.6	25.9	22.4	20.0	14.7	31.2	61.0	31.2		
22.	24.5	30.4	130	128	133	30.4	31.2	25.9	20.6	18.2	14.2	34.4	56.7	34.4		
23.	32.8	29.6	110	129	128	30.4	28.8	25.9	20.0	19.4	16.4	67.3	55.0	110		
24.	35.2	27.3	111	134	116	30.4	29.6	23.8	19.4	19.4	16.4	83.5	52.5	98.8		
25.	32.0	26.6	116	125	106	35.2	32.8	22.4	20.0	17.0	15.2	61.9	49.1	88.9		
26.	36.8	30.4	110	170	96.1	33.6	30.4	23.1	19.4	18.2	18.2	66.4	45.7	80.8		
27.	63.7	29.6	124	201	88.0	33.6	28.8	22.4	20.0	17.0	20.0	82.6	44.0	79.9		
28.	64.6	29.6	174	212	80.8	38.4	35.2	21.8	19.4	23.1	18.8	104	40.8	81.7		
29.	64.6	41.6	179		74.5	39.2	38.4	21.2	18.2	28.8	15.8	84.4	40.8	77.2		
30.	77.2	43.2	194		68.2	40.0	31.2	21.2	17.6	21.8	15.2	71.8	90.7	136		
31.		36.8	223		63.7		28.8		18.2	20.0		61.9		240		
Tag	5.+	25.	16.+	9.	31.	22.+	23.+	29.+	7.	25.+	22.	3.	28.+	21.		
NQ	15.2	26.6	20.0	69.1	63.7	30.4	28.8	21.2	17.0	17.0	14.2	14.7	40.8	31.2		
MQ	35.2	52.3	65.5	132	106	39.0	42.3	29.5	21.8	21.7	17.0	39.1	82.5	71.6		
HQ	92.5	91.6	231	229	238	61.9	90.7	67.3	45.7	36.8	34.4	116	153	270		
Tag	30.	7.	31.	1.	1.	1.	5.	7.	18.	28.	11.	28.	11.	31.		
h _N mm	22	33	42	76	67	24	27	18	14	14	10	25	51	46		
h _A mm																
	1935/2001		1936/2002 67 Kalenderjahre ²													
Jahr	1964	1953	1963	1954	1963	1959	1953	1976	1976	1964	1947	1959	1964	1953		
NQ	6.52	7.90	7.64	7.46	7.94	13.7	12.2	8.60	5.92	5.21	5.00	4.61	6.52	7.90		
MNQ	20.0	24.6	27.6	32.3	34.1	36.8	24.0	20.8	18.3	15.6	14.7	15.5	20.4	24.9		
MQ	34.3	50.1	56.3	60.0	65.4	59.7	36.2	32.4	27.6	22.7	21.0	25.5	35.2	50.8		
MHQ	71.1	111	130	121	131	108	65.9	65.2	54.5	46.2	37.1	51.0	72.6	114		
HQ	297	432	348	450	363	372	201	271	370	355	134	176	297	432		
Jahr	1940	1947	1987	1946	1942	1994	1984	1961	1956	1981	1998	1960	1940	1947		
Mh _N mm	21	32	36	35	42	37	23	20	18	14	13	16	22	32		
Mh _A mm																
Hauptwerte	Abflussjahr (*)		2002				Kalenderjahr				Dauertabelle	Unterschrittene Abflüsse m ³ /s				
	Jahr		Datum		Winter	Sommer	Jahr		Datum			Abflussjahr (*)	Kalenderjahr	1936/2002 67 Kalenderjahre ²		
												2002	2002	Obere Hüllkurve	Mittlere Werte	Untere Hüllkurve
	NQ	m ³ /s	14.2	am 22.09.2002	15.2	14.2	14.2	am 22.09.2002	364	232		240	443	233	63.2	
	MQ	m ³ /s	49.6		71.0	28.6	55.2		363	229		232	398	208	63.2	
	HQ	m ³ /s	238	am 01.03.2002 bei W = 344 cm	238	116	270	am 31.12.2002 bei W = 366 cm	362	223		229	366	194	60.6	
	Nq	l/(skm ²)	3.37		3.61	3.37	3.37		361	215		223	310	181	53.1	
	Mq	l/(skm ²)	11.8		16.8	6.79	13.1		360	212		215	268	174	50.6	
	Hq	l/(skm ²)	56.5		56.5	27.5	64.1		359	201		212	260	165	49.8	
	h _N	mm							358	194		201	258	158	49.8	
	h _A	mm	371		263	108	413		357	188		194	258	151	48.0	
									356	182		188	250	145	47.1	
									350	154		155	195	123	39.8	
									340	129		134	176	100	36.6	
									330	116		124	147	86.3	35.0	
								320	102	113	134	75.4	30.3			
								300	80.8	93.4	116	60.4	24.6			
								270	63.7	74.5	94.2	47.6	21.2			
								240	41.6	55.9	82.0	39.2	19.8			
								210	35.2	40.8	70.5	33.3	17.1			
								183	32.0	35.2	60.1	29.1	15.2			
								150	28.0	30.4	51.6	24.8	10.8			
								130	25.2	27.3	47.2	22.4	9.30			
								120	24.5	25.2	45.4	20.2	8.94			
								110	23.1	24.5	44.6	20.2	8.60			
								100	21.8	22.4	43.0	19.3	8.60			
								90	21.2	21.8	41.4	18.3	8.28			
								80	20.0	20.6	39.1	17.4	7.98			
								70	20.0	20.0	37.4	16.6	7.70			
								60	19.4	19.4	36.6	15.8	7.38			
								50	18.8	19.4	34.2	14.8	7.10			
								40	18.2	18.8	32.1	13.8	6.69			
								30	17.0	17.0	29.8	12.7	6.46			
								25	16.4	17.0	29.1	11.1	6.46			
								20	15.8	16.4	27.3	10.1	6.20			
								15	15.8	15.8	26.7	9.00	5.80			
								10	15.2	15.2	26.1	8.81	5.80			
								9	15.2	15.2	25.4	8.56	5.80			
								8	15.2	15.2	25.4	8.28	5.80			
								7	14.7	14.7	24.2	7.98	5.80			
								6	14.7	14.7	24.2	7.70	5.80			
								5	14.7	14.7	24.2	7.43	5.80			
								4	14.7	14.7	24.2	7.16	5.80			
								3	14.7	14.7	24.2	6.80	5.00			
								2	14.7	14.7	23.0	6.42	5.00			
								1	14.2	14.2	23.0	4.61	4.61			
								0								

(*) Abflussjahr: 1.11. des Vorjahres bis 31.10.
²Vorsicht: 1.5% Lücken im Zeitraum 1936/2002
³Ausgefallenes Abflussjahr: 1945

A_{Eo} : 256.00 km²
 PNP : NN+ 355.16 m
 Lage : 9.00 km oberhalb der Mündung rechts



Pegel : Rappelsdorf Nr. 421510
 Gewässer: Schleuse
 Gebiet : Werra

m³/s

	Tag	2001		2002																
		Nov	Dez	Jan	Feb	Mrz	Apr	Mai	Jun	Jul	Aug	Sep	Okt	Nov	Dez					
Tageswerte	1.	2.48	12.4	3.86	28.0	23.2	4.86	2.31	3.15	1.45	1.24	0.920	0.857	7.20	7.40					
	2.	2.48	13.2	3.86	25.2	20.6	4.34	2.65	2.65	1.66	1.24	0.857	1.66	9.00	8.00					
	3.	2.36	12.8	R 3.72	22.2	18.8	3.83	2.48	2.15	1.56	1.13	0.857	1.66	9.40	8.20					
	4.	2.36	13.2	R 2.24	18.8	16.0	3.49	2.65	1.87	1.56	1.13	0.857	1.66	10.0	7.80					
	5.	2.36	13.2	R 2.24	15.7	13.6	3.32	2.82	1.77	1.56	1.13	0.857	1.87	9.80	7.60					
	6.	2.36	16.0	R 2.24	14.8	10.8	3.15	2.99	3.66	1.45	1.13	0.794	3.32	10.0	7.02					
	7.	2.36	16.4	R 2.36	12.8	10.6	2.99	3.15	4.86	1.45	1.45	0.731	2.48	9.20	6.48					
	8.	6.00	16.0	R 2.24	11.4	10.0	2.82	2.82	4.00	1.45	1.56	0.731	2.31	8.40	6.30					
	9.	6.40	15.2	R 2.12	11.6	9.80	2.82	2.48	3.49	1.45	1.34	0.731	2.48	10.2	5.76					
	10.	4.90	13.0	R 2.12	13.6	9.60	2.48	2.31	3.49	1.66	1.34	0.857	2.31	10.0	5.22					
	11.	4.72	11.4		2.00	15.5	8.80	2.48	2.31	3.49	1.77	1.24	1.34	2.31	12.3	5.22				
	12.	5.08	10.6		1.88	18.4	8.20	2.48	3.15	3.32	1.34	1.66	0.857	2.31	12.8	4.86				
	13.	5.26	9.80		2.00	23.0	7.80	2.31	2.82	3.32	1.24	1.34	0.731	2.31	13.3	4.68				
	14.	4.90	8.00		2.12	23.6	7.02	2.65	2.65	2.99	1.56	1.34	0.731	2.31	13.3	4.68				
	15.	4.72	7.00		2.00	24.2	6.30	2.48	2.48	2.65	1.56	1.24	0.794	2.48	12.3	4.51				
	16.	4.18	6.40		1.76	23.0	5.94	2.48	2.48	2.48	1.56	1.24	0.731	2.99	11.0	4.34				
	17.	3.86	6.00		1.88	21.5	5.76	2.31	1.98	2.15	1.56	1.24	0.731	4.17	10.2	4.34				
	18.	3.86	6.00		1.88	17.9	5.40	2.15	1.98	1.98	1.45	1.34	0.731	5.22	9.20	3.32				
	19.	3.72	5.44		1.88	13.2	7.40	2.15	3.15	1.87	1.45	1.24	0.731	5.04	9.00	2.99				
	20.	3.72	4.36		2.24	14.6	8.80	2.15	2.65	2.15	1.34	1.13	0.731	4.86	8.00	2.65				
	21.	3.44	3.72		7.60	15.2	7.80	1.98	2.31	2.15	1.24	1.13	0.794	4.86	7.02	2.48				
	22.	4.18	3.72		10.4	13.8	9.60	1.87	2.15	2.15	1.24	1.13	0.857	6.66	6.66	4.00				
	23.	4.00	3.58		11.2	14.0	10.6	1.87	2.15	1.98	1.24	1.13	0.920	6.48	6.66	8.60				
	24.	3.86	3.02		13.2	13.6	10.4	1.98	4.51	1.87	1.24	1.13	0.920	6.12	6.30	6.84				
	25.	4.00	3.72		17.4	15.0	9.80	2.15	4.34	1.98	1.24	1.03	0.857	5.58	5.76	6.48				
	26.	4.90	4.36		19.1	21.0	9.20	2.15	4.17	1.87	1.24	1.03	1.03	7.60	5.76	6.48				
	27.	5.80	4.00		29.3	26.7	8.80	2.82	4.34	1.66	1.34	1.03	1.03	8.80	5.22	6.66				
	28.	7.00	4.36		47.2	26.7	7.80	2.65	5.58	1.56	1.24	1.13	0.920	9.20	4.51	6.66				
	29.	8.80	4.36		47.2		6.66	2.48	4.51	1.56	1.13	1.13	0.857	9.00	5.22	7.02				
	30.	11.0	4.18		35.2		6.12	2.31	4.17	1.56	1.34	1.03	0.794	8.40	7.80	17.3				
	31.		4.00		30.7		5.40		4.17	1.56	1.56	0.920	7.80	7.80	27.0	27.0				
Hauptwerte	Tag	3.+	24.	16.	8.	18.+	22.+	17.+	28.+	29.	31.	7.+	1.	28.	21.					
	NQ	2.36	3.02	1.76	11.4	5.40	1.87	1.98	1.56	1.13	0.920	0.731	0.857	4.51	2.48					
	MQ	4.50	8.37	10.2	18.4	9.89	2.67	3.06	2.53	1.42	1.21	0.843	4.36	8.85	6.80					
	HQ	11.6	17.4	52.0	29.6	24.9	5.04	6.30	8.60	7.02	2.15	1.87	11.0	14.3	27.6					
	Tag	30.	6.	28.	1.	1.	1.	28.	7.	31.	7.	10.	27.	13.	31.					
	h _N mm	46	88	106	174	103	27	32	26	15	13	9	46	90	71					
	h _A mm																			
			1950/2001			1951/2002 52 Kalenderjahre														
	Jahr	1971	1962	1963	1963	1972	1960	1974+	2000	1976	1976	1973	1973	1971	1962					
	NQ	0.300	0.170	0.550	0.550	0.540	1.05	0.880	0.530	0.200	0.170	0.230	0.290	0.300	0.170					
MNQ	2.13	2.68	2.67	2.93	2.89	3.49	1.82	1.40	1.31	1.08	1.20	1.63	2.17	2.69						
MQ	4.46	6.70	6.55	6.01	7.38	7.22	3.38	2.62	2.46	1.80	2.32	3.22	4.47	6.69						
MHQ	10.6	18.8	18.6	13.9	19.6	16.8	6.87	7.15	6.74	4.83	6.26	8.07	10.4	18.9						
HQ	35.5	58.0	65.9	50.2	80.6	82.4	21.1	35.6	32.4	19.9	49.0	31.6	35.5	58.0						
Jahr	1998	1978	1987	1967	1981	1970	1965	1966	1966	1981	1998	1960	1998	1978						
Mh _N mm	45	70	69	57	77	73	35	26	26	19	24	34	45	70						
Mh _A mm																				
Dauertabelle			Abflussjahr (*) 2002				Kalenderjahr 2002				Unterschrittene Abflüsse m ³ /s									
			Jahr		Datum		Winter		Sommer		Jahr		Datum		Abflussjahr (*) 2002		Kalenderjahr 2002		1951/2002 52 Kalenderjahre	
															Untere Hüllkurve		Mittlere Werte		Obere Hüllkurve	
	NQ	m ³ /s	0.731 am 07.09.2002		1.76		0.731		0.731 am 07.09.2002		364		47.2		47.2		79.2		34.4	
	MQ	m ³ /s	5.54		8.90		2.24		5.77		363		47.2		47.2		73.6		28.8	
	HQ	m ³ /s	52.0 am 28.01.2002 bei W = 250 cm		52.0		11.0		52.0 am 28.01.2002 bei W = 250 cm		362		35.2		35.2		68.8		26.1	
	Nq	l/(skm ²)	2.86		6.88		2.86		2.86		361		30.7		30.7		64.0		24.1	
	Mq	l/(skm ²)	21.7		34.8		8.76		22.5		360		29.3		29.3		55.0		22.1	
	Hq	l/(skm ²)	203		203		43.0		203		359		28.0		28.0		55.0		20.8	
	h _N mm		683		544		139		711		358		26.7		27.0		49.4		19.9	
h _A mm										357		26.7		26.7		44.7		19.2		
		1951/2002 (*) 52 Jahre				1951/2002														
NQ	m ³ /s	0.170 am 27.12.1962		0.170		0.170		0.170 am 27.12.1962		356		25.2		26.7		39.5		18.5		
MNQ	m ³ /s	0.749		1.43		0.814		0.768		355		22.2		23.0		24.8		15.1		
MQ	m ³ /s	4.50		6.40		2.63		4.50		340		16.4		17.4		19.9		12.2		
MHQ	m ³ /s	36.2		35.0		14.0		36.7		330		14.6		13.8		18.1		10.4		
HQ	m ³ /s	82.4 am 20.04.1970 bei W = 267 cm		82.4		49.0		82.4 am 20.04.1970 bei W = 267 cm		320		13.2		12.3		16.3		8.94		
HQ ₁	m ³ /s									300		9.60		9.60		12.4		6.96		
HQ ₅	m ³ /s									270		6.12		7.40		8.42		5.18		
MNq	l/(skm ²)	2.93		5.59		3.18		3.00		240		4.36		5.40		6.16		4.05		
Mq	l/(skm ²)	17.6		25.0		10.3		17.6		210		3.49		3.86		5.51		3.26		
MHq	l/(skm ²)	142		137		54.7		143		183		2.65		2.82		4.93		2.73		
Mh _N mm		555		391		164		554		150		2.31		2.31		4.05		2.25		
Mh _A mm										130		2.15		2.15		3.72		1.99		
		Niedrigwasser				Hochwasser														
		m ³ /s		Datum		m ³ /s		Datum												
1		0.170	0.664	29.08.1976	82.4	322	267	20.04.1970	Dauertabelle		364	47.2	47.2	79.2	34.4	11.4				
2		0.170	0.664	27.12.1962	80.6	315	269	10.03.1981		363	47.2	47.2	73.6	28.8	10.7	9.62				
3		0.230	0.898	19.09.1973	70.0	273	270	14.04.1994		362	35.2	35.2	68.8	26.1	9.42	6.62				
4		0.300	1.17	03.11.1971	65.9	257	268	02.01.1987		361	30.7	30.7	64.0	24.1	9.42	6.62				
5		0.360	1.41	05.10.1959	59.6	233		06.01.1982		360	29.3	29.3	55.0	20.8	7.06	7.06				
6		0.400	1.56	18.08.1982	58.0	227	248	31.12.1978		359	28.0	28.0	55.0	20.8	7.06	7.06				
7		0.400	1.56	28.08.1964	57.2	223		24.12.1967		358	26.7	27.0	49.4	19.9	7.06	7.06				
8		0.420	1.64	15.08.1975	57.2	223		19.12.1965		357	26.7	26.7	44.7	19.2	7.06	7.06				
9		0.430	1.68	03.07.1957	56.7	221	226	31.03.1962		356	25.2	26.7	39.5	18.5	7.06	7.06				
10		0.450	1.76	08.07.1952	52.0	203	250	28.01.2002		355	22.2	23.0	24.8	15.1	5.62	5.13				
											340	16.4	17.4	19.9	12.2	5.13	4.97			
											330	14.6	13.8	18.1	10.4	4.97	4.97			
											320	13.2	12.3	16.3	8.94	4.35	4.35			
											300	9.60	9.60	12.4	6.96	3.21	3.21			
											270	6.12	7.40	8.42	5.18	2.37	2.37			
											2									

A_{Eo} : 35.30 km²

PNP : NHN+ 408.00 m

Lage : 5.00 km oberhalb der Mündung rechts



m³/s

Pegel : Hinternah

Nr. 421600

Gewässer: Nahe

Gebiet : Werra

Tag	2001		2002											
	Nov	Dez	Jan	Feb	Mrz	Apr	Mai	Jun	Jul	Aug	Sep	Okt	Nov	Dez
1.	0.200	2.21	0.650	3.78	4.49	0.810	0.450	0.400	0.360	0.200	0.184	0.184	1.60	1.65
2.	0.240	2.21	0.650	2.95	3.44	0.810	0.450	0.400	0.360	0.200	0.184	0.184	2.40	1.93
3.	0.240	2.07	0.650	2.65	2.65	0.730	0.450	0.360	0.360	0.184	0.168	0.184	2.52	1.93
4.	0.280	2.07	R 0.550	2.21	2.07	0.650	0.500	0.360	0.320	0.184	0.168	0.184	2.78	1.79
5.	0.320	2.07	R 0.550	1.93	1.79	0.600	0.500	0.360	0.320	0.200	0.168	0.200	2.65	1.65
6.	0.360	2.80	R 0.600	1.93	1.53	0.600	0.500	0.730	0.280	0.184	0.168	0.730	2.52	1.41
7.	0.450	2.80	0.650	1.93	2.07	0.600	0.500	0.650	0.280	0.280	0.168	0.500	2.16	1.29
8.	2.80	2.65	0.600	1.79	2.07	0.550	0.450	0.550	0.280	0.320	0.168	0.360	1.82	1.19
9.	2.80	2.07	0.550	1.93	1.93	0.550	0.450	0.500	0.280	0.320	0.168	0.320	2.28	0.990
10.	2.21	1.65	0.500	3.10	1.93	0.550	0.450	0.500	0.500	0.320	0.200	0.280	2.16	0.890
11.	2.07	1.41	0.500	3.44	1.65	0.550	0.450	0.500	0.500	0.280	0.320	0.280	2.65	0.890
12.	1.93	1.29	0.500	4.31	1.53	0.550	0.550	0.500	0.360	0.400	0.200	0.240	2.94	0.810
13.	1.79	1.19	0.500	6.10	1.41	0.500	0.500	0.500	0.280	0.320	0.184	0.240	3.11	0.810
14.	1.65	1.09	0.500	5.85	1.29	0.550	0.500	0.500	0.360	0.280	0.184	0.240	2.94	0.810
15.	1.65	1.09	0.500	4.49	1.19	0.550	0.450	0.450	0.320	0.240	0.184	0.240	2.65	0.730
16.	1.41	0.890	0.450	3.44	1.09	0.500	0.450	0.450	0.280	0.240	0.184	0.500	2.28	0.730
17.	1.29	0.810	0.450	2.65	0.990	0.500	0.450	0.450	0.320	0.280	0.168	0.600	2.16	0.810
18.	1.19	0.810	0.450	2.07	0.890	0.450	0.400	0.400	0.360	0.280	0.168	0.550	1.82	0.650
19.	1.09	0.730	0.450	1.65	1.19	0.450	0.500	0.360	0.320	0.240	0.168	0.550	1.71	0.650
20.	0.990	0.650	0.500	1.93	1.65	0.400	0.450	0.400	0.280	0.200	0.168	0.500	1.50	0.600
21.	0.890	0.600	1.53	2.07	2.21	0.400	0.400	0.400	0.240	0.184	0.168	0.500	1.40	0.600
22.	1.09	0.600	1.93	1.79	2.65	0.400	0.400	0.360	0.240	0.200	0.184	1.31	1.40	0.990
23.	1.09	0.600	2.07	1.79	2.50	0.400	0.400	0.360	0.240	0.184	0.200	1.50	1.40	2.50
24.	0.810	0.500	2.50	1.53	2.35	0.450	0.550	0.320	0.240	0.184	0.200	1.40	1.22	1.65
25.	0.810	0.550	3.27	1.53	2.07	0.450	0.450	0.320	0.240	0.184	0.184	1.50	1.13	1.65
26.	1.09	0.550	3.61	3.95	1.79	0.450	0.450	0.320	0.240	0.184	0.240	2.40	1.05	1.65
27.	1.09	0.500	9.10	7.60	1.41	0.550	0.400	0.320	0.280	0.184	0.240	2.94	1.05	1.79
28.	1.19	0.550	21.7	6.60	1.29	0.500	0.500	0.360	0.240	0.280	0.200	3.11	0.970	1.65
29.	1.29	0.500	12.4		1.09	0.500	0.450	0.360	0.240	0.240	0.184	2.65	1.13	1.79
30.	2.07	0.500	7.10		0.990	0.450	0.450	0.360	0.280	0.184	0.184	2.28	1.79	5.45
31.		0.500	5.05		0.890	0.400	0.400	0.360	0.240	0.184	0.184	1.93		9.10

Tag	1.	24.+	16.+	24.+	18.+	20.+	18.+	24.+	21.+	3.+	3.+	1.+	28.	20.+
NQ	0.200	0.500	0.450	1.53	0.890	0.400	0.400	0.320	0.240	0.184	0.168	0.184	0.970	0.600
MQ	1.21	1.24	2.61	3.11	1.81	0.533	0.461	0.427	0.305	0.237	0.189	0.922	1.97	1.65
HQ	3.95	3.10	24.8	8.60	5.25	0.890	0.810	2.16	3.28	0.600	0.550	4.13	3.62	10.1
Tag	8.	6.	28.	27.	1.	1.	12.	6.	10.	7.	10.	27.	13.	31.
h _N mm	89	94	198	213	137	39	35	31	23	18	14	70	145	125
h _A mm														
	1946/2001		1947/2002 56 Kalenderjahre											
Jahr	1976	1946	1947	1996	1996	1957	1947+	1959	1982	1959+	1959	1959	1976	1948+
NQ	0.060	0.090	0.080	0.063	0.063	0.140	0.080	0.020	0.010	0.010	0.010	0.020	0.060	0.100
MNQ	0.412	0.492	0.468	0.476	0.556	0.731	0.385	0.298	0.259	0.220	0.229	0.295	0.427	0.501
MQ	0.891	1.28	1.18	1.07	1.45	1.51	0.720	0.546	0.506	0.379	0.450	0.629	0.922	1.30
MHQ	2.56	4.16	3.99	2.83	5.01	3.66	1.57	1.71	1.82	1.35	1.62	1.82	2.61	4.34
HQ	10.1	15.6	24.8	14.3	25.4	16.0	5.20	6.06	6.45	7.09	17.0	7.05	10.1	15.6
Jahr	1998	1965	2002	1997	1981	1994	1970	1966	1980	1981	1998	1960	1998	1965
Mh _N mm	65	97	89	74	110	111	55	40	38	29	33	48	68	99
Mh _A mm														

Hauptwerte	Abflussjahr (*) 2002	Abflussjahr (*) 2002		Kalenderjahr 2002		Unterschrittene Abflüsse m ³ /s 1947/2002 56 Kalenderjahre
		Jahr	Datum	Winter	Sommer	
NQ	m ³ /s	0.168	am 03.09.2002	0.200	0.168	364
MQ	m ³ /s	1.08		1.74	0.425	363
HQ	m ³ /s	24.8	am 28.01.2002 bei W = 205 cm	24.8	4.13	362
Nq	l/(skm ²)	4.76		5.67	4.76	361
Mq	l/(skm ²)	30.5		49.3	12.0	360
Hq	l/(skm ²)	703		703	117	359
h _N	mm			771		358
h _A	mm	962		191		357
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A_{Eo} : 114.00 km²
 PNP : NN+ 367.65 m
 Lage : 1.00 km oberhalb der Mündung links



m³/s

Pegel : Schleusingen Nr. 421620
 Gewässer: Nahe
 Gebiet : Werra

	Tag	2001		2002												
		Nov	Dez	Jan	Feb	Mrz	Apr	Mai	Jun	Jul	Aug	Sep	Okt	Nov	Dez	
Tageswerte	1.	0.880	6.40	1.21	10.9	11.3	2.45	1.12	0.880	0.630	0.480	0.350	0.310	2.71	3.17	
	2.	0.880	6.60	1.21	9.20	8.80	2.32	1.21	0.880	0.680	0.480	0.350	0.310	4.50	3.33	
	3.	0.880	6.01	1.12	8.00	7.20	2.32	1.21	0.800	0.680	0.480	0.350	0.310	5.06	3.33	
	4.	0.800	6.40	0.960	7.20	6.40	2.19	1.30	0.800	0.680	0.430	0.350	0.350	5.82	3.17	
	5.	0.800	6.40	1.12	6.40	5.63	2.06	1.30	0.800	0.680	0.430	0.310	0.430	5.25	3.01	
	6.	0.800	8.80	1.12	6.20	5.06	1.94	1.30	1.94	0.630	0.430	0.310	1.30	4.87	2.58	
	7.	0.960	8.60	1.21	5.44	5.63	1.82	1.21	1.70	0.630	0.580	0.280	0.730	4.33	2.32	
	8.	3.49	8.00	1.12	5.06	5.44	1.70	1.12	1.30	0.630	0.630	0.280	0.580	3.99	2.19	
	9.	3.49	6.60	1.12	5.06	5.25	1.58	1.12	1.21	0.580	0.580	0.280	0.480	5.25	2.06	
	10.	3.17	5.63	1.04	7.80	5.06	1.48	1.04	1.21	0.880	0.530	0.390	0.480	4.87	1.82	
	11.	3.01	5.06	0.960	8.00	4.68	1.48	1.04	1.21	0.880	0.480	0.630	0.480	6.40	1.70	
	12.	2.71	4.50	0.960	9.40	4.16	1.48	1.58	1.12	0.680	0.680	0.390	0.430	6.60	1.70	
	13.	2.85	3.82	0.960	13.9	3.99	1.39	1.30	1.04	0.630	0.530	0.310	0.430	6.80	1.58	
	14.	2.45	3.17	0.960	13.7	3.82	1.58	1.12	1.04	0.800	0.480	0.310	0.430	6.40	1.58	
	15.	2.19	3.01	0.880	11.1	3.65	1.58	1.12	1.04	0.630	0.430	0.350	0.480	5.82	1.58	
	16.	2.06	2.71	0.880	8.80	3.33	1.48	1.04	0.960	0.630	0.390	0.350	0.800	4.87	1.48	
	17.	1.94	2.58	0.800	7.40	3.17	1.30	1.04	0.960	0.630	0.430	0.310	0.960	4.50	1.48	
	18.	1.94	2.45	0.800	6.20	2.85	1.21	0.960	0.880	0.630	0.430	0.310	0.880	3.82	1.39	
	19.	1.82	2.32	0.800	5.44	3.33	1.21	1.30	0.800	0.630	0.390	0.310	0.880	3.49	1.30	
	20.	1.70	2.19	1.21	6.40	4.68	1.12	1.04	0.880	0.630	0.390	0.310	0.730	3.17	1.21	
	21.	1.58	1.94	4.50	6.40	5.44	1.12	0.960	0.960	0.580	0.350	0.310	0.800	2.85	1.21	
	22.	2.45	2.06	5.06	5.63	6.40	1.04	0.960	0.880	0.530	0.390	0.350	2.58	2.71	1.94	
	23.	2.32	1.82	5.63	6.01	6.20	0.960	0.960	0.800	0.530	0.350	0.350	2.71	2.71	4.33	
	24.	2.19	1.58	7.00	5.25	5.82	1.04	1.58	0.730	0.530	0.350	0.350	2.32	2.45	3.01	
	25.	2.06	1.70	9.40	5.06	5.06	0.960	1.04	0.730	0.530	0.310	0.310	2.19	2.19	3.01	
	26.	2.85	1.70	10.6	10.2	4.50	1.04	1.04	0.680	0.480	0.350	0.390	4.50	2.06	3.01	
	27.	3.49	1.48	23.4	17.3	3.99	1.48	1.04	0.680	0.530	0.350	0.350	5.06	1.94	3.17	
	28.	3.99	1.70	40.4	15.5	3.49	1.30	1.48	0.630	0.480	0.390	0.350	5.25	1.94	3.17	
	29.	4.68	1.70	27.9		3.17	1.30	1.12	0.630	0.480	0.390	0.310	4.33	2.45	3.49	
	30.	6.20	1.48	17.8		2.85	1.21	1.04	0.580	0.580	0.390	0.350	3.82	3.65	10.6	
	31.		1.39	13.2		2.71		0.960		0.680	0.350		3.01		17.8	
Hauptwerte	Tag	4.+	31.	17.+	8.+	31.	23.+	18.+	30.	26.+	25.	7.+	1.+	27.+	20.+	
	NQ	0.800	1.39	0.800	5.06	2.71	0.960	0.960	0.580	0.480	0.310	0.280	0.310	1.94	1.21	
	MQ	2.35	3.86	5.98	8.32	4.94	1.50	1.15	0.958	0.626	0.440	0.342	1.56	4.12	3.12	
	HQ	7.20	10.0	43.0	20.3	13.4	2.71	3.65	4.68	5.25	1.04	0.960	8.20	7.60	19.8	
	Tag	8.	6.	28.	27.	1.	2.1	12.	6.	31.	7.	10.	27.	13.	31.	
	h _N mm	54	91	140	177	116	34	27	22	15	10	8	37	94	73	
	h _A mm															
			1962/2001		1963/2002 40 Kalenderjahre											
	Jahr	1962	1962	1972	1972	1963	1974	1974+	2000	1964	1976+	1964	1964	1971+	1971	
	NQ	0.180	0.180	0.320	0.320	0.300	0.710	0.600	0.280	0.260	0.270	0.210	0.260	0.280	0.360	
MNQ	0.942	1.34	1.29	1.49	1.65	2.18	1.05	0.774	0.620	0.480	0.468	0.657	0.986	1.37		
MQ	2.03	3.23	3.25	2.87	3.80	4.06	1.95	1.35	1.15	0.780	0.928	1.28	2.13	3.30		
MHQ	5.29	9.94	10.2	6.63	10.2	8.66	4.28	4.28	3.97	2.73	3.37	3.41	5.46	10.4		
HQ	21.4	49.9	43.0	24.0	50.0	31.8	15.2	15.6	12.3	13.2	23.1	12.0	21.4	49.9		
Jahr	1998	1978	2002	1997	1981	1994	1974	1963	1966	1981	1998	1998	1998	1978		
Mh _N mm	46	76	76	61	89	92	46	31	27	18	21	30	48	77		
Mh _A mm																
Extremwerte	Niedrigwasser		Hochwasser													
		m ³ /s	I/(skm ²)	Datum	m ³ /s	I/(skm ²)	cm	Datum								
	1	0.180	1.58	09.11.1962	50.0	439	214	11.03.1981								
	2	0.210	1.84	26.09.1964	49.9	438		31.12.1978								
	3	0.230	2.02	08.09.1973	43.0	377	196	28.01.2002								
	4	0.230	2.02	23.09.1971	32.6	286	160	02.01.1987								
	5	0.260	2.28	12.09.1988	32.1	282	161	03.03.1999								
	6	0.270	2.37	05.08.1994	31.8	279	160	13.04.1994								
	7	0.270	2.37	17.07.1976	27.3	239		19.12.1965								
	8	0.270	2.37	19.09.1970	26.5	232	132	23.04.1970								
9	0.280	2.46	07.09.2002	24.2	212	133	09.03.2000									
10	0.280	2.46	22.06.2000	24.0	211	132	26.02.1997									

(*) Abflussjahr: 1.11. des Vorjahres bis 31.10.

A_{Eo} : 327.00 km²
 PNP : NN+ 306.60 m
 Lage : 4.00 km oberhalb der Mündung links



Pegel : Ellingshausen Nr. 422000
 Gewässer: Hasel
 Gebiet : Werra

m³/s

Tag	2001		2002											
	Nov	Dez	Jan	Feb	Mrz	Apr	Mai	Jun	Jul	Aug	Sep	Okt	Nov	Dez
1.	2.14	10.3	3.00	17.0	24.8	5.66	3.12	2.41	1.78	1.69	1.52	1.14	4.98	8.22
2.	2.05	10.6	R 2.90	14.3	19.6	5.50	3.12	2.41	1.96	1.44	1.36	1.14	8.38	8.22
3.	1.96	9.72	R 2.70	12.6	16.5	5.24	2.80	2.41	1.78	1.36	1.36	1.20	9.55	7.58
4.	1.96	R 9.55	R 2.70	11.4	14.0	4.98	3.24	2.41	1.78	1.44	1.36	1.52	10.7	7.10
5.	1.96	9.38	R 2.70	10.6	12.2	4.85	3.00	2.41	1.69	1.60	1.36	1.52	10.3	6.78
6.	1.96	13.2	R 2.70	10.3	11.0	4.59	3.12	6.14	1.60	1.52	1.28	5.50	9.04	6.14
7.	2.05	12.6	R 2.70	8.87	11.0	4.46	2.90	4.72	1.69	2.05	1.20	3.12	8.06	5.82
8.	5.50	11.6	R 2.70	8.38	10.1	4.20	2.70	3.84	1.60	2.50	1.20	2.60	8.22	5.37
9.	5.37	10.1	R 2.70	8.38	9.38	4.08	2.70	3.48	1.52	2.05	1.14	2.14	12.0	4.98
10.	4.59	8.87	R 2.50	12.0	8.87	3.84	3.48	3.84	2.60	2.14	1.52	2.05	10.9	4.59
11.	4.20	7.90	R 2.50	10.7	8.38	3.84	3.96	3.48	2.50	1.78	2.14	1.87	13.0	4.32
12.	3.96	7.26	R 2.50	11.6	7.90	3.72	4.32	3.24	1.87	3.24	1.28	1.78	11.8	4.08
13.	4.46	6.62	R 2.50	22.1	7.42	3.72	3.72	3.12	1.69	2.32	1.20	1.69	11.6	3.96
14.	3.96	5.82	R 2.41	21.2	7.26	4.20	3.36	3.12	2.70	2.05	1.14	1.69	10.7	3.96
15.	3.72	5.37	R 2.41	17.2	7.26	3.84	3.12	2.90	1.78	1.87	1.28	1.78	9.89	3.84
16.	3.60	R 4.98	R 2.32	14.5	6.94	3.60	3.00	2.60	1.69	1.78	1.14	3.12	8.87	3.84
17.	3.48	4.72	R 2.32	12.6	6.46	3.48	2.90	2.41	2.05	1.69	1.14	3.72	8.38	3.84
18.	3.24	4.46	R 2.32	11.2	6.14	3.24	2.80	2.32	2.80	1.60	1.14	3.12	7.10	3.60
19.	3.24	4.32	R 2.32	10.4	7.10	3.36	3.48	2.32	2.05	1.52	1.08	3.48	6.78	3.36
20.	3.12	4.20	R 2.80	13.0	9.72	3.12	2.80	2.32	1.78	1.44	1.08	3.12	6.14	3.24
21.	2.90	3.96	7.26	12.2	11.0	3.00	2.70	2.32	1.69	1.36	1.08	3.00	5.66	3.24
22.	4.20	3.96	9.04	10.6	12.2	2.80	2.50	2.23	1.60	1.44	1.36	4.85	5.66	4.85
23.	4.20	R 3.72	9.89	11.2	11.2	2.70	2.50	2.05	1.60	1.44	1.36	6.30	5.50	10.1
24.	3.96	3.48	12.2	10.3	10.4	3.12	3.96	2.05	1.60	1.36	1.28	5.98	5.11	7.90
25.	4.08	3.60	15.8	10.4	9.38	3.00	2.70	1.96	1.60	1.36	1.20	5.82	4.85	7.26
26.	5.50	3.48	15.1	20.9	8.54	3.00	2.50	1.87	1.78	1.28	1.96	8.54	4.72	7.10
27.	6.78	3.36	23.6	32.7	7.90	4.08	2.70	1.78	1.69	1.60	1.69	8.87	4.46	7.10
28.	7.58	3.72	50.1	31.9	7.26	3.48	4.32	1.78	1.44	2.90	1.36	8.38	4.32	6.78
29.	7.90	3.84	39.2		6.78	3.60	2.90	1.78	1.36	2.05	1.28	7.26	5.11	7.10
30.	10.7	3.48	26.0		6.30	3.36	2.60	1.78	1.60	1.69	1.20	6.46	9.21	18.0
31.		3.24	20.4		5.98		2.50	1.78	1.60	1.60		5.66		37.4

Tag	3.+	31.	16.+	8.+	31.	23.	22.+	27.+	29.	26.	19.+	1.+	28.	20.+
NQ	1.96	3.24	2.32	8.38	5.98	2.70	2.50	1.78	1.36	1.28	1.08	1.14	4.32	3.24
MQ	4.14	6.50	9.04	14.2	9.97	3.86	3.08	2.72	1.83	1.78	1.32	3.82	8.03	7.09
HQ	12.4	16.5	59.4	40.7	28.1	5.82	16.2	15.1	6.62	8.87	4.32	12.6	16.7	41.7
Tag	30.	6.	28.	27.	1.	1.	10.	6.	10.	27.	10.	27.	11.	31.
h _N mm	33	53	74	105	82	31	25	22	15	15	10	31	64	58
h _A mm														
	1935/2001		1936/2002 67 Kalenderjahre											
Jahr	1949	1959	1942	1942	1942	1960	1948	1960	1943	1976	1964	1948	1949	1959
NQ	0.450	0.250	0.100	0.100	0.100	1.57	0.900	0.800	0.380	0.550	0.320	0.420	0.450	0.250
MNQ	2.37	2.76	3.05	3.56	3.85	4.20	2.49	2.02	1.84	2.59	1.49	1.66	2.41	2.78
MQ	4.26	5.98	6.12	6.33	7.36	7.30	4.02	3.39	3.30	3.30	2.50	3.08	4.34	6.03
MHQ	11.1	15.9	16.3	13.7	17.5	15.3	9.41	10.4	10.6	8.42	7.80	8.35	11.2	16.4
HQ	41.5	51.7	59.4	40.7	56.3	74.2	42.9	38.0	37.7	49.7	53.1	40.0	41.5	51.7
Jahr	1944	1978	2002	2002	1981	1994	1941	1966	1956	1981	1998	1960	1944	1978
Mh _N mm	34	49	50	47	60	58	33	27	27	21	20	25	34	49
Mh _A mm														

Hauptwerte	Abflussjahr (*)	2002				Kalenderjahr		Unterschreitungs- dauer in Tagen	Unterschrittene Abflüsse m ³ /s				
		2002		2002		2002			1936/2002 67 Kalenderjahre				
		Jahr	Datum	Winter	Sommer	Jahr	Datum		Obere Hüllkurve	Mittlere Werte	Untere Hüllkurve		
NQ	m ³ /s	1.08	am 19.09.2002	1.96	1.08	1.08	am 19.09.2002	364	50.1	50.1	55.2	29.9	7.80
MQ	m ³ /s	5.14		7.90	2.43	5.51		363	39.2	39.2	51.3	25.3	7.10
HQ	m ³ /s	59.4	am 28.01.2002 bei W = 258 cm	59.4	16.2	59.4	am 28.01.2002 bei W = 258 cm	362	32.7	37.4	44.1	22.9	6.54
Nq	l/(skm ²)	3.30		5.99	3.30	3.30		361	31.9	32.7	42.9	21.1	6.42
Mq	l/(skm ²)	15.7		24.1	7.43	16.8		360	26.0	31.9	38.1	20.0	6.26
Hq	l/(skm ²)	182		182	49.5	182		359	24.8	26.0	34.1	18.8	6.11
h _N	mm							358	23.6	24.8	33.4	17.9	5.96
h _A	mm	496		378	118	531		357	22.1	23.6	31.0	17.0	5.96
								356	21.2	22.1	29.9	16.4	5.96
								355	16.5	17.2	26.3	13.5	5.54
								350	12.6	12.6	18.8	11.2	5.14
								340	11.2	11.6	16.8	9.85	4.76
								330	10.4	10.7	14.8	8.70	4.53
								320	8.54	9.04	12.1	7.13	3.58
								300	5.98	7.10	10.7	5.60	2.89
								270	4.20	5.11	9.90	4.60	2.50
								240	3.48	3.84	8.90	3.83	2.17
								210	3.12	3.24	7.92	3.30	1.74
								183	2.70	2.80	6.40	2.79	1.26
								150	2.50	2.50	5.68	2.50	1.10
								130	2.32	2.41	5.32	2.38	0.940
								120	2.14	2.32	5.14	2.24	0.940
								110	2.05	2.05	4.96	2.13	0.940
								100	1.96	1.96	4.60	2.01	0.860
								90	1.78	1.78	4.29	1.89	0.860
								80	1.69	1.69	4.14	1.76	0.860
								70	1.60	1.60	3.83	1.65	0.780
								60	1.52	1.52	3.67	1.55	0.780
								50	1.36	1.36	3.30	1.40	0.730
								40	1.28	1.28	3.14	1.28	0.730
								30	1.20	1.20	2.98	1.14	0.730
								25	1.20	1.20	2.82	1.06	0.730
								15	1.14	1.14	2.82	0.950	0.730
								10	1.14	1.14	2.82	0.940	0.730
								9	1.14	1.14	2.82	0.920	0.730
								8	1.14	1.14	2.82	0.870	0.730
								7	1.14	1.14	2.76	0.860	0.730
								6	1.14	1.14	2.76	0.820	0.730
								5	1.14	1.14	2.69	0.780	0.730
								4	1.08	1.08	2.69	0.720	0.730
								3	1.08	1.08	2.69	0.640	0.730
								2	1.08	1.08	2.69	0.500	0.730
								1	1.08	1.08	2.63	0.100	0.730

A_{Eo} : 151.00 km²
 PNP : NN+ 344.07 m
 Lage : 5.00 km oberhalb der Mündung links



m³/s

Pegel : Schwarza Nr. 422300
 Gewässer: Schwarza
 Gebiet : Werra

Tag	2001		2002												
	Nov	Dez	Jan	Feb	Mrz	Apr	Mai	Jun	Jul	Aug	Sep	Okt	Nov	Dez	
1.	1.07	5.81	R 1.31	7.99	12.2	2.75	1.31	1.00	0.720	0.790	0.650	0.480	2.51	4.11	
2.	0.930	5.81	R 1.23	6.79	9.61	2.63	1.31	1.00	0.790	0.650	0.650	0.480	4.70	4.25	
3.	0.930	5.33	R 1.15	6.13	7.99	2.39	1.23	0.930	0.790	0.590	0.650	0.480	5.81	3.83	
4.	0.860	5.17	R 1.15	5.49	6.79	2.28	1.40	0.930	0.720	0.590	0.650	0.650	6.79	3.27	
5.	0.860	5.01	R 1.15	5.01	5.81	2.17	1.31	0.930	0.720	0.720	0.590	0.790	6.45	3.14	
6.	0.930	6.79	R 1.15	4.85	5.01	2.07	1.40	3.14	0.650	0.650	0.590	2.88	5.49	2.75	
7.	0.930	6.45	R 1.07	4.11	5.17	1.97	1.31	1.97	0.650	0.860	0.590	1.67	4.70	2.51	
8.	2.75	5.97	R 1.07	3.97	4.70	1.87	1.23	1.67	0.650	1.07	0.530	1.40	4.70	2.28	
9.	2.63	5.17	R 1.07	4.11	4.40	1.77	1.23	1.49	0.590	0.860	0.530	1.15	6.62	2.17	
10.	2.17	4.40	R 1.07	5.97	4.11	1.67	1.97	1.77	1.23	0.930	0.720	1.00	6.29	2.07	
11.	1.97	3.97	1.00	5.33	3.83	1.67	2.07	1.58	1.15	0.790	0.860	0.930	7.47	1.87	
12.	1.87	3.55	1.00	5.97	3.55	1.58	2.17	1.40	0.790	1.77	0.590	0.860	6.79	1.87	
13.	2.17	3.14	1.00	11.6	3.41	1.58	1.97	1.40	0.720	1.15	0.530	0.860	6.62	1.77	
14.	1.87	2.75	0.930	11.2	3.27	1.77	1.77	1.40	1.15	1.00	0.530	0.790	5.97	1.67	
15.	1.77	2.51	0.930	8.89	3.41	1.58	1.77	1.31	0.790	0.930	0.590	1.00	5.33	1.58	
16.	1.77	2.28	0.930	7.13	3.41	1.58	1.67	1.15	0.720	0.860	0.480	1.40	4.55	1.58	
17.	1.67	2.17	0.930	6.13	3.14	1.49	1.49	1.15	0.930	0.790	0.430	1.67	4.11	1.58	
18.	1.58	2.07	0.930	5.33	3.01	1.40	1.49	1.07	1.31	0.790	0.430	1.49	3.41	1.49	
19.	1.49	1.97	0.930	4.85	3.41	1.40	1.77	1.00	0.860	0.720	0.430	1.87	3.27	1.40	
20.	1.49	1.87	1.23	6.13	5.17	1.31	1.40	1.00	0.790	0.650	0.430	1.67	2.88	1.31	
21.	1.40	1.77	3.14	5.65	5.97	1.31	1.31	1.00	0.720	0.590	0.430	1.67	2.63	1.23	
22.	2.07	1.77	4.11	5.01	6.62	1.23	1.31	1.00	0.650	0.650	0.480	2.51	2.63	2.28	
23.	1.97	1.67	5.17	5.33	6.29	1.15	1.23	1.00	0.650	0.650	0.530	3.55	2.39	5.33	
24.	1.87	1.67	6.79	4.85	5.65	1.23	1.87	0.930	0.590	0.650	0.530	3.55	2.17	4.25	
25.	1.87	1.58	8.53	5.01	5.17	1.15	1.23	0.930	0.590	0.590	0.480	3.69	2.07	3.83	
26.	2.75	1.49	7.99	11.2	4.55	1.23	1.15	0.860	0.650	0.530	0.860	4.55	2.07	3.69	
27.	3.41	1.49	13.4	19.0	4.11	1.58	1.23	0.860	0.650	1.00	0.720	4.70	1.87	3.55	
28.	4.11	1.67	24.6	16.6	3.69	1.31	1.87	0.860	0.590	1.31	0.530	4.25	1.77	3.41	
29.	4.55	1.67	18.0		3.41	1.58	1.23	0.860	0.530	0.930	0.530	3.83	2.28	3.55	
30.	5.97	1.49	12.2		3.14	1.49	1.07	0.790	0.650	0.720	0.480	3.41	4.25	11.2	
31.		1.40	9.61		2.88		1.07			1.00	0.650	3.01		21.2	
Tag	4.+	31.	14.+	8.	31.	23.+	30.+	30.	29.	26.	17.+	1.+	28.	21.	
NQ	0.860	1.40	0.930	3.97	2.88	1.15	1.07	0.790	0.530	0.530	0.430	0.480	1.77	1.23	
MQ	2.06	3.22	4.35	7.13	4.93	1.67	1.48	1.21	0.774	0.820	0.567	2.01	4.29	3.55	
HQ	6.96	8.35	26.9	23.2	14.2	2.88	14.8	10.0	4.25	10.2	2.07	7.64	9.07	23.6	
Tag	29.	6.	28.	27.	1.	1.	10.	6.	30.	27.	10.	6.	11.	31.	
h _N mm	35	57	77	114	87	29	26	21	14	15	10	36	74	63	
h _A mm															
	1949/2001		1950/2002 53 Kalenderjahre												
Jahr	1949	1953	1954	1972	1972	1960	1952	2000	1952	1952	1973	1991	1953	1953	
NQ	0.220	0.230	0.170	0.400	0.330	0.800	0.650	0.310	0.220	0.220	0.280	0.260	0.310	0.230	
MNQ	1.20	1.41	1.46	1.63	1.74	2.19	1.29	0.991	0.876	0.771	0.756	0.878	1.23	1.42	
MQ	2.16	3.09	3.03	2.96	3.76	4.00	2.19	1.72	1.55	1.24	1.29	1.66	2.23	3.12	
MHQ	5.62	8.32	8.62	6.93	10.0	9.10	5.36	5.90	5.45	4.68	4.51	4.69	5.78	8.69	
HQ	21.5	24.6	26.9	23.2	43.6	46.8	14.8	23.6	20.0	28.8	31.8	30.0	21.5	24.6	
Jahr	1977	1974	2002	2002	1981	1994	2002	1966	1966	1981	1998	1960	1977	1974	
Mh _N mm	37	55	54	48	67	69	39	29	28	22	22	29	38	55	
Mh _A mm															
Hauptwerte	Abflussjahr (*) 2002		Kalenderjahr 2002				Unterschrittene Abflüsse m ³ /s		1950/2002 53 Kalenderjahre						
	Jahr	Datum	Winter	Sommer	Jahr	Datum	Unter-schreitungs-dauer in Tagen	Abfluss-jahr (*) 2002	Kalender-jahr 2002	Oberer Hüllkurve	Mittlere Werte	Untere Hüllkurve			
	NQ	m ³ /s	0.430 am 17.09.2002	0.860	0.430	0.430 am 17.09.2002	364	24.6	24.6	39.6	15.5	4.42			
	MQ	m ³ /s	2.49	3.86	1.15	2.70	363	19.0	21.2	36.4	13.4	4.22			
	HQ	m ³ /s	26.9 am 28.01.2002 bei W = 182 cm	26.9	14.8	26.9 am 28.01.2002 bei W = 182 cm	362	18.0	19.0	25.8	12.3	4.15			
	Nq	l/(skm ²)	2.85	5.70	2.85	2.85	361	16.6	18.0	20.4	11.5	4.08			
	Mq	l/(skm ²)	16.5	25.6	7.59	17.9	360	13.4	16.6	19.8	10.8	4.08			
	Hq	l/(skm ²)	178	178	98.0	178	359	12.2	13.4	16.6	10.0	3.94			
							358	12.2	12.2	16.2	9.60	3.80			
							357	11.6	12.2	14.7	9.10	3.80			
							356	11.2	11.6	14.2	8.63	3.80			
	h _N	mm					355	7.99	8.89	12.3	7.10	3.27			
	h _A	mm	521	400	121	565	340	6.29	6.79	10.9	5.91	2.90			
							330	5.81	6.13	9.80	5.15	2.70			
							320	5.17	5.49	8.77	4.51	2.47			
						300	4.25	4.70	6.35	3.63	1.71				
						270	3.01	3.41	4.80	2.85	1.40				
						240	1.97	2.39	3.67	2.30	1.22				
						210	1.67	1.77	3.17	1.91	1.07				
						183	1.40	1.49	3.03	1.66	0.920				
						150	1.23	1.23	2.78	1.38	0.720				
						130	1.07	1.15	2.52	1.23	0.560				
						120	1.00	1.00	2.52	1.17	0.520				
						110	0.930	1.00	2.48	1.09	0.520				
						100	0.930	0.930	2.28	1.02	0.480				
						90	0.860	0.930	2.07	0.950	0.480				
						80	0.860	0.860	2.07	0.900	0.470				
						70	0.790	0.790	1.89	0.840	0.440				
						60	0.720	0.720	1.71	0.780	0.430				
						50	0.650	0.650	1.55	0.720	0.390				
						40	0.650	0.650	1.48	0.670	0.350				
						30	0.590	0.590	1.44	0.610	0.310				
						25	0.590	0.590	1.40	0.570	0.310				
						20	0.530	0.530	1.40	0.540	0.310				
						15	0.530	0.530	1.33	0.510	0.270				
						10	0.480	0.480	1.26	0.460	0.270				
						9	0.480	0.480	1.26	0.440	0.270				
						8	0.480	0.480	1.26	0.410	0.270				
						7	0.480	0.480	1.26	0.400	0.230				
						6	0.480	0.480	1.26	0.400	0.230				
						5	0.480	0.480	1.26	0.390	0.230				
						4	0.430	0.430	1.19	0.370	0.200				
						3	0.430	0.430	1.19	0.340	0.200				
						2	0.430	0.430	1.19	0.330	0.170				
						1	0.430	0.430	1.19	0.310	0.170				
						0	0.430	0.430							

A_{Eo} : 153.00 km²
PNP : NN+ 268.59 m
Lage : 3.00 km oberhalb der Mündung rechts



m³/s

Pegel : Mittelschmalkalden Nr. 424000
Gewässer: Schmalkalde
Gebiet : Werra

Tag	2001		2002													
	Nov	Dez	Jan	Feb	Mrz	Apr	Mai	Jun	Jul	Aug	Sep	Okt	Nov	Dez		
1.	0.940	6.70	1.21	6.25	10.3	2.67	1.39	1.12	0.760	0.450	0.940	0.510	3.34	4.65		
2.	0.850	6.40	1.21	5.20	8.36	2.42	1.48	1.03	0.760	0.450	0.940	0.510	5.95	4.92		
3.	0.760	5.50	1.03	4.65	7.00	2.30	1.48	1.03	0.670	0.390	0.850	0.510	7.15	4.52		
4.	0.760	5.06	0.760	4.13	5.95	2.18	1.86	1.03	0.670	0.450	0.760	0.760	8.52	4.13		
5.	0.760	4.92	0.760	3.73	5.20	2.06	1.76	1.03	0.580	0.760	0.760	1.12	8.05	3.86		
6.	0.850	5.95	0.760	3.47	4.78	1.86	1.86	2.80	0.510	0.510	0.670	3.86	7.00	3.47		
7.	0.940	5.65	1.03	3.07	4.52	1.86	1.76	2.42	0.670	0.760	0.580	2.67	5.80	3.20		
8.	4.52	5.20	1.12	3.07	4.00	1.76	1.57	1.86	0.510	1.12	0.580	2.18	5.95	2.94		
9.	4.65	4.65	1.12	3.07	3.73	1.66	1.57	1.76	0.510	0.850	0.580	1.86	7.75	2.54		
10.	3.20	4.13	1.03	3.60	3.47	1.57	1.76	2.06	0.940	0.940	0.760	1.76	7.60	2.30		
11.	2.67	3.73	1.03	3.07	3.20	1.57	2.18	1.76	0.670	0.760	1.03	1.57	9.00	2.06		
12.	2.42	3.47	0.940	3.73	3.07	1.57	2.30	1.66	0.510	1.57	0.670	1.48	8.05	1.96		
13.	2.67	3.07	0.940	9.00	2.67	1.57	2.06	1.57	0.510	1.12	0.580	1.39	7.30	1.96		
14.	2.30	2.54	1.03	9.32	2.54	1.86	1.96	1.66	1.12	0.940	0.580	1.30	6.25	1.96		
15.	2.18	2.42	1.03	7.90	2.42	1.66	1.76	1.57	0.670	0.850	0.670	1.39	5.50	1.86		
16.	2.06	2.30	1.03	6.55	2.30	1.57	1.66	1.57	0.580	0.760	0.580	1.66	4.52	1.86		
17.	1.86	2.06	1.03	5.50	2.42	1.57	1.57	1.39	1.03	0.670	0.580	2.06	4.00	1.96		
18.	1.86	1.86	0.940	4.65	2.42	1.48	1.48	1.30	1.30	0.670	0.510	2.06	3.47	1.76		
19.	1.76	1.76	1.03	4.26	3.07	1.39	1.57	1.21	0.940	0.580	0.510	2.80	3.20	1.66		
20.	1.66	1.66	1.39	4.78	4.39	1.39	1.39	1.21	0.760	0.580	0.510	2.54	2.94	1.66		
21.	1.57	1.57	3.73	4.52	5.35	1.30	1.39	1.12	0.670	0.510	0.450	2.42	2.67	1.57		
22.	2.18	1.57	5.65	4.13	6.10	1.21	1.30	1.03	0.670	0.510	0.670	4.00	2.67	3.07		
23.	2.18	1.48	6.70	4.65	5.65	1.12	1.21	1.03	0.580	0.510	0.670	5.65	2.54	6.85		
24.	2.18	1.21	8.20	4.26	5.20	1.30	1.66	0.940	0.510	0.580	0.760	5.35	2.30	5.50		
25.	2.18	1.39	9.32	4.52	4.78	1.30	1.21	0.850	0.510	0.510	0.760	5.06	2.18	4.92		
26.	3.34	1.30	8.52	8.84	4.52	1.21	1.21	0.850	0.580	0.510	1.48	5.06	1.96	4.52		
27.	4.00	1.21	11.1	15.3	3.86	1.57	1.30	0.850	0.510	2.18	1.12	5.65	1.86	4.52		
28.	4.52	1.57	17.1	13.7	3.47	1.57	2.06	0.760	0.450	1.76	0.850	5.20	1.86	4.26		
29.	4.92	1.57	13.5		3.20	1.48	1.39	0.760	0.450	1.30	0.760	4.78	2.30	4.26		
30.	7.00	1.39	9.48		3.07	1.48	1.21	0.760	0.450	1.21	0.670	4.39	4.52	12.3		
31.		1.30	7.45		2.80	1.48	1.12	0.580	0.580	1.12		3.86		23.3		
Tag	3.+	24.+	4.+	7.+	16.	23.	31.	28.+	28.+	3.	21.	1.+	27.+	21.		
NQ	0.760	1.21	0.760	3.07	2.30	1.12	1.12	0.760	0.450	0.390	0.450	0.510	1.86	1.57		
MQ	2.46	3.05	3.91	5.68	4.32	1.65	1.60	1.33	0.673	0.835	0.728	2.76	4.87	4.20		
HQ	7.45	7.45	18.3	18.5	11.3	2.80	4.13	8.52	7.15	20.8	1.96	7.75	10.7	27.6		
Tag	30.	6.	28.	27.	1.		12.	6.	30.	27.	26.	6.	11.	31.		
h _N mm	42	53	68	90	76	28	23	12	15	12	48	83	74			
h _A mm																
	1955/2001		1956/2002 47 Kalenderjahre													
Jahr	1985	1986	1963	1963	1963	1974	1974	2000	1976	1976+	1982	1985	1985	1986		
NQ	0.230	0.170	0.270	0.260	0.280	0.700	0.520	0.320	0.270	0.220	0.260	0.230	0.230	0.170		
MNQ	0.987	1.25	1.34	1.53	1.63	1.88	1.16	0.900	0.763	0.660	0.621	0.726	0.998	1.25		
MQ	1.89	2.92	2.80	2.93	3.48	3.45	1.96	1.70	1.43	1.19	1.11	1.46	1.97	2.93		
MHQ	4.90	8.86	7.97	7.14	8.85	8.12	4.77	6.10	5.15	5.84	3.82	4.28	5.10	9.17		
HQ	17.5	34.0	31.9	25.9	40.2	43.7	15.1	29.8	25.0	103	23.1	29.0	17.5	34.0		
Jahr	1992	1967	1982	1957	1981	1994	1997	1958	1956	1981	1998	1960	1992	1967		
Mh _N mm	32	51	49	47	61	58	34	29	25	21	19	25	33	51		
Mh _A mm																
	Abflussjahr (*) 2002		Kalenderjahr 2002				Unterschrittene Abflüsse m ³ /s									
	Jahr	Datum	Winter	Sommer	Jahr	Datum	Unterschreitungs- dauer in Tagen	Abfluss- jahr (*) 2002	Kalender- jahr 2002	1956/2002 47 Kalenderjahre						
										Oberer Hüllkurve	Mittlere Werte	Untere Hüllkurve				
NQ	m ³ /s	0.390 am 03.08.2002	0.760	0.390	0.390 am 03.08.2002	364	17.1	23.3	64.8	15.5	3.86	3.86				
MQ	m ³ /s	2.40	3.49	1.32	2.69	363	15.3	17.1	60.0	13.3	3.86	3.86				
HQ	m ³ /s	20.8 am 27.08.2002 bei W = 144 cm	18.5	20.8	27.6 am 31.12.2002 bei W = 173 cm	362	13.7	15.3	35.5	11.7	3.86	3.86				
Nq	l/(skm ²)	2.55	4.97	2.55	2.55	361	13.5	13.7	31.9	10.6	3.74	3.74				
Mq	l/(skm ²)	15.7	22.8	8.65	17.6	360	11.1	13.5	28.3	9.94	3.62	3.62				
Hq	l/(skm ²)	136	121	136	180	359	10.3	12.3	27.5	9.28	3.50	3.50				
h _N mm						358	9.48	11.1	17.5	8.81	3.50	3.50				
h _A mm	494		357	137	555	357	9.32	10.3	15.5	8.49	3.50	3.50				
	1956/2002 (*) 47 Jahre		1956/2002				356	9.32	9.48	14.8	8.05	3.50	3.50			
NQ	m ³ /s	0.170 am 04.12.1986	0.170	0.220	0.170 am 04.12.1986	355	7.90	8.52	12.4	6.60	3.14	3.14				
MNQ	m ³ /s	0.425	0.749	0.498	0.473	340	5.95	7.30	8.80	5.37	2.24	2.24				
MQ	m ³ /s	2.19	2.91	1.48	2.20	330	5.35	5.95	6.78	4.66	1.92	1.92				
MHQ	m ³ /s	19.6	16.2	12.4	20.2	320	4.92	5.50	6.02	4.14	1.60	1.60				
HQ	m ³ /s	103 am 10.08.1981 bei W = 283 cm	43.7	103	103 am 10.08.1981 bei W = 283 cm	300	4.13	4.52	5.31	3.35	1.38	1.38				
HQ ₁	m ³ /s					270	3.07	3.47	4.26	2.61	1.12	1.12				
HQ ₅	m ³ /s					240	2.18	2.54	3.49	2.12	1.01	1.01				
MNq	l/(skm ²)	2.78	4.89	3.26	3.09	210	1.76	1.96	3.05	1.76	0.870	0.870				
Mq	l/(skm ²)	14.3	19.0	9.64	14.4	183	1.57	1.66	2.61	1.50	0.770	0.770				
MHq	l/(skm ²)	128	106	81.2	132	150	1.30	1.39	2.40	1.23	0.570	0.570				
Mh _N mm						130	1.12	1.21	2.30	1.08	0.510	0.510				
Mh _A mm	452		298	153	453	120	1.12	1.12	2.20	1.02	0.500	0.500				
	Niedrigwasser		Hochwasser				110	1.03	1.03	2.10	0.950	0.450	0.450			
	m ³ /s	l/(skm ²)	Datum	m ³ /s	l/(skm ²)	cm	Datum	100	0.940	0.940	2.00	0.900	0.450	0.450		
1	0.170	1.11	04.12.1986	103	673	283	10.08.1981	90	0.940	0.940	1.90	0.840	0.450	0.450		
2	0.220	1.44	08.08.1995	43.7	286	221	13.04.1994	80	0.760	0.850	1.80	0.780	0.400	0.400		
3	0.220	1.44	13.08.1976	40.2	263	194	11.03.1981	70	0.760	0.760	1.70	0.730	0.380	0.380		
4	0.230	1.50	25.08.2001	34.0	222		24.12.1967	60	0.670	0.760	1.60	0.670	0.350	0.350		
5	0.230	1.50	31.10.1985	31.9	208		06.01.1982	50	0.670	0.670	1.50	0.620	0.320	0.320		
6	0.240	1.57	05.10.1971	30.5	199	178	30.12.1986	40	0.580	0.580	1.41	0.560	0.290	0.290		
7	0.260	1.70	18.09.1982	30.4	199		20.04.1983	30	0.580	0.580	1.34	0.510	0.260	0.260		
8	0.260	1.70	26.02.1963	29.8	195	124	28.06.1958	25	0.510	0.510	1.27	0.500	0.230	0.230		
9	0.280	1.83	04.09.1964	29.0	190		17.10.1960	20	0.510	0.510	1.23	0.460	0.200	0.200		
10	0.290	1.90	17.08.2000	27.6	180	173	31.12.2002	15	0.510	0.510	1.23	0.420	0.170	0.170		
								10	0.510	0.510	1.23	0.380	0.160	0.160		
								9	0.510	0.510	1.23	0.380	0.160	0.160		
								8	0.510	0.510	1.23	0.360	0.160	0.160		
								7	0.510	0.510	1.23	0.360	0.160	0.160		
								6	0.450	0.450	1.23	0.360	0.160	0.160		

A_{Eo} : 214.00 km²
PNP : NN+ 233.02 m
Lage : 2.00 km



m³/s

Pegel : Dorndorf 2 Nr. 426000
Gewässer: Felda
Gebiet : Werra

Tag	2001		2002													
	Nov	Dez	Jan	Feb	Mrz	Apr	Mai	Jun	Jul	Aug	Sep	Okt	Nov	Dez		
1.	0.677	4.88	1.63	5.58	11.9	3.65	2.03	1.36	K 1.09	1.63	0.838	0.838	2.66	6.68		
2.	0.624	4.60	R 1.45	5.02	10.2	3.38	2.03	1.36	K 1.18	1.09	0.838	0.838	4.69	4.98		
3.	0.571	3.79	RR 1.36	4.46	8.75	3.25	2.17	1.27	K 1.18	0.946	0.784	0.838	6.68	4.11		
4.	0.571	3.38	RR 1.27	4.06	8.00	3.11	7.53	1.27	K 1.18	0.892	0.838	0.892	7.53	3.68		
5.	0.518	4.19	RR 1.09	3.79	7.02	2.98	7.36	1.27	K 1.18	1.00	0.838	0.892	6.17	3.39		
6.	0.518	5.86	RR 1.09	3.65	6.51	2.84	4.88	2.84	K 1.18	0.946	0.838	1.54	4.55	3.10		
7.	0.571	5.30	RR 1.09	3.38	7.02	2.71	4.33	2.44	K 1.18	1.18	0.838	1.54	3.82	2.81		
8.	5.44	3.92	RR 1.00	3.25	6.68	2.57	3.65	1.81	K 1.18	1.27	0.838	1.36	5.13	2.52		
9.	6.17	3.38	R 0.946	3.11	5.86	2.44	3.38	1.54	K 1.09	1.09	0.838	1.00	8.90	R 2.23		
10.	2.84	2.84	R 0.946	7.36	5.30	2.30	3.38	1.63	K 1.18	1.54	1.36	0.892	6.51	R 2.23		
11.	1.90	2.71	0.946	5.72	4.88	2.30	3.65	1.54	K 1.27	1.36	2.03	0.838	9.84	R 2.08		
12.	1.63	2.57	0.946	7.36	4.60	2.30	3.38	1.36	K 1.09	1.36	1.18	0.838	7.02	R 1.94		
13.	2.57	2.44	0.946	25.2	4.33	2.30	3.25	1.36	K 1.18	1.18	1.00	0.838	5.56	R 1.94		
14.	2.17	1.90	0.892	13.9	4.33	2.71	2.71	1.36	K 1.54	1.09	0.946	0.892	4.98	1.65		
15.	1.63	1.90	RR 0.892	8.90	4.33	2.57	2.44	1.36	K 1.27	1.09	0.946	0.892	4.55	1.65		
16.	1.36	1.72	R 0.838	7.36	4.19	2.30	2.30	1.27	K 1.27	0.946	0.892	1.18	4.11	1.56		
17.	1.27	1.72	R 0.838	6.51	3.79	2.17	2.17	1.18	K 2.57	0.946	0.892	2.44	3.82	1.79		
18.	1.18	1.63	0.838	6.00	3.65	2.03	2.17	1.09	K 2.84	0.946	0.838	1.81	3.39	1.65		
19.	1.09	1.54	0.892	5.86	4.60	2.03	2.30	1.09	K 1.54	0.892	0.838	2.71	3.24	1.56		
20.	1.00	1.54	1.63	10.6	5.72	1.90	1.90	1.18	K 1.27	K 0.892	0.838	2.03	2.95	1.47		
21.	0.946	1.45	12.1	11.1	10.5	1.81	1.81	1.18	K 1.18	K 0.946	0.838	1.63	2.81	1.47		
22.	1.18	1.45	11.1	7.53	9.68	1.72	1.72	1.09	K 1.09	K 0.838	0.892	3.65	2.66	2.95		
23.	2.30	1.36	8.45	8.90	8.00	1.72	1.72	1.09	K 1.09	0.838	1.00	6.51	2.52	9.84		
24.	1.54	1.36	8.30	8.15	6.34	2.03	1.81	1.09	K 1.00	0.838	0.946	6.00	2.37	4.98		
25.	1.63	1.45	7.85	9.36	5.72	2.17	1.63	1.00	K 1.09	0.838	0.892	3.65	2.23	4.26		
26.	4.33	1.36	6.51	22.1	5.16	1.90	1.63	1.00	K 1.00	0.838	1.18	7.02	2.08	3.68		
27.	5.58	1.27	11.6	24.5	4.74	2.17	1.54	1.09	K 1.00	0.892	1.09	6.34	1.79	4.11		
28.	4.46	1.90	17.8	15.3	4.46	2.30	1.90	1.09	K 0.946	0.946	1.00	6.51	1.79	3.97		
29.	4.06	3.38	10.3		4.19	2.30	1.54	1.09	K 0.946	0.892	0.946	4.19	2.37	3.97		
30.	7.19	2.30	7.70		4.06	2.57	1.45	1.09	K 0.892	0.892	0.838	3.38	8.75	14.6		
31.		1.81	6.51		3.79		1.45		K 1.00	0.838		3.11		20.7		
Tag	5.+	27.	16.+	9.	18.	22.+	30.+	25.+	30.	22.+	3.	1.+	27.+	20.+		
NQ	0.518	1.27	0.838	3.11	3.65	1.72	1.45	1.00	0.892	0.838	0.784	0.838	1.79	1.47		
MQ	2.25	2.61	4.19	8.86	6.07	2.42	2.75	1.35	1.25	1.03	0.962	2.49	4.52	4.11		
HQ	13.8	8.30	23.1	42.6	14.4	3.79	9.84	5.30	5.30	3.79	4.19	10.6	14.6	39.7		
Tag	8.	6.	28.	27.	21.	1.	4.	6.	17.	1.	10.	23.	11.	31.		
h _N mm																
h _A mm	27	33	52	100	76	29	34	16	16	13	12	31	55	51		
	1935/2001		1936/2002 67 Kalenderjahre ²													
Jahr	1975	1959+	1963	1972	1972	1963	1954	1955	1954	1947+	1975	1975	1975	1959+		
NQ	0.050	0.300	0.420	0.710	0.410	0.670	0.360	0.250	0.370	0.330	0.160	0.300	0.050	0.300		
MNQ	1.03	1.31	1.67	2.03	1.95	1.98	1.38	1.09	0.873	0.781	0.714	0.799	1.05	1.32		
MQ	1.91	2.95	3.59	3.93	3.83	3.16	2.12	1.76	1.42	1.15	1.06	1.36	1.96	2.99		
MHQ	7.56	12.0	13.8	12.7	11.6	8.16	5.50	6.62	5.66	4.01	3.07	4.14	7.75	12.4		
HQ	47.5	43.0	59.4	46.5	47.0	55.6	30.5	50.6	57.0	28.2	19.7	27.8	47.5	43.0		
Jahr	1940	1993	1995	1946	1979	1994	1941	1981	1966	1981	1998	1941	1940	1993		
Mh _N mm			45	45	48	38	27	21	18	14	13	17	24	37		
Mh _A mm	23	37														
Hauptwerte	Abflussjahr (*) 2002		Kalenderjahr 2002		Unterschrittene Abflüsse m ³ /s											
	Jahr		Datum		Jahr		Datum		Abflussjahr (*) 2002		Kalenderjahr 2002		1936/2002 67 Kalenderjahre ²			
	Winter		Sommer		Obere Hüllkurve		Mittlere Werte		Untere Hüllkurve							
	NQ m ³ /s		0.518 am 05.11.2001		0.518 0.784		0.784 am 03.09.2002		364		25.2 25.2		40.5 16.8		5.30 5.15	
	MQ m ³ /s		2.98 am 27.02.2002		4.35 1.64		3.30 am 27.02.2002		363		24.5 24.5		36.0 13.7		13.7 4.49	
	HQ m ³ /s		42.6 am 27.02.2002 bei W = 312 cm		42.6 10.6		42.6 am 27.02.2002 bei W = 312 cm		362		22.1 22.1		29.5 12.2		12.2 3.97	
	Nq l/(skm ²)		2.42		2.42 3.66		3.66		361		17.8 20.7		25.2 10.3		3.75 3.75	
	Mq l/(skm ²)		13.9		20.3 7.67		15.4		360		15.3 17.8		24.2 10.3		3.75 3.75	
	Hq l/(skm ²)		199		199 49.5		199		359		13.9 15.3		22.4 9.65		3.63 3.42	
	h _N mm		440		318 122		486		358		12.1 14.6		20.9 9.12		3.63 3.42	
	h _A mm		440		318 122		486		357		11.9 13.9		20.0 8.65		3.42 3.32	
	NQ m ³ /s		0.050 am 08.11.1975		0.050 0.160		0.050 am 08.11.1975		356		11.6 12.5		19.4 6.34		3.32 3.32	
	MNQ m ³ /s		0.543		0.876 1.48		0.585		355		10.2 10.5		12.5 6.91		2.54 2.09	
	MQ m ³ /s		2.35		3.23 1.48		2.35		354		8.00 8.75		10.9 5.70		2.09 1.92	
	MHQ m ³ /s		26.9		25.1 10.9		26.8		353		7.02 7.53		7.86 4.88		1.92 1.84	
HQ m ³ /s		59.4 am 23.01.1995 bei W = 233 cm		59.4 57.0		59.4 am 23.01.1995 bei W = 233 cm		352		6.34 6.68		7.16 4.26		1.84 1.66		
HQ ₁ m ³ /s								351		4.88 5.58		6.35 3.54		1.66 1.42		
HQ ₅ m ³ /s								350		3.65 4.06		5.15 2.80		1.42 1.25		
MNq l/(skm ²)		2.54		4.09 2.87		2.73		240		2.57 3.11		4.33 2.30		1.25 1.01		
Mq l/(skm ²)		11.0		15.1 6.92		11.0		210		2.03 2.30		3.86 1.90		1.01 0.800		
MHq l/(skm ²)		126		117 51.1		125		183		1.63 1.94		3.49 1.64		0.800 0.670		
Mh _N mm		346		236 110		347		150		1.36 1.54		3.02 1.35		0.670 0.560		
Mh _A mm		346		236 110		347		130		1.18 1.36		2.92 1.14		0.560 0.510		
								120		1.18 1.27		2.82 1.14		0.510 0.480		
								110		1.09 1.18		2.72 1.08		0.480 0.450		
								100		1.09 1.09		2.63 1.02		0.450 0.420		
								90		1.09 1.09		2.45 0.960		0.420 0.380		
								80		1.00 1.00		2.45 0.900		0.380 0.300		
								70		0.946 1.00		2.36 0.850		0.300 0.230		
								60		0.946 0.946		2.27 0.800		0.230 0.160		
								50		0.892 0.946		2.18 0.740		0.160 0.100		
								40		0.892 0.892		2.08 0.690		0.100 0.050		
								30		0.838 0.892		1.92 0.640		0.050 0.050		
								25		0.838 0.838		1.84 0.610		0.050 0.050		
								20		0.838 0.838		1.84 0.580		0.050 0.160		
								15		0.838 0.838		1.84 0.550		0.160 0.100		
								10		0.838 0.838		1.84 0.490		0.100 0.050		
								9		0.838 0.838		1.75 0.480		0.050 0.050		
								8		0.838 0.838		1.75 0.470		0.050 0.050		
								7		0.838 0.838		1.75 0.450		0.050 0.050		
								6		0.677 0.838		1.75 0.430		0.050 0.050		
								5		0.624 0.838		1.75 0.420		0.050 0.050		
								4		0.571 0.838		1.75 0.380		0.050 0.050		
								3		0.571 0.838		1.75 0.340		0.050 0.050		
								2		0.571 0.838		1.67 0.300		0.050 0.050		
								1		0.518 0.838		1.67 0.340		0.050 0.050		
								0		0.518 0.784		1.67 0.050		0.050 0.050		

(*) Abflussjahr: 1.11. des Vorjahres bis 31.10.
17 Tage Randeis, 34 Tage Verkautung
²Vorsicht: 1.5% Lücken im Zeitraum 1936/2002
³Ausgefallenes Abflussjahr: 1945

A_{Eo} : 399.00 km²
 PNP : NN+ 233.59 m
 Lage : 5.00 km oberhalb der Mündung rechts



m³/s

Pegel : Unterbreizbach Nr. 427010
 Gewässer: Ulster
 Gebiet : Werra

Tag	2001		2002													
	Nov	Dez	Jan	Feb	Mrz	Apr	Mai	Jun	Jul	Aug	Sep	Okt	Nov	Dez		
1.	1.85	11.8	3.50	10.6	22.9	K 6.50	K 4.75	K 2.90	1.70	1.55	1.45	1.45	5.50	13.0		
2.	1.55	11.2	3.30	9.10	17.6	K 6.00	K 4.50	K 2.70	1.85	1.55	1.35	1.35	9.40	9.40		
3.	1.45	8.80	R 2.90	8.00	14.7	K 5.75	K 5.00	K 2.70	1.85	1.45	1.35	1.35	12.4	7.75		
4.	1.45	7.75	R 3.10	7.25	13.0	K 5.50	K 2.2	K 2.50	1.85	1.45	1.35	1.45	13.3	6.75		
5.	1.45	9.10	R 3.10	6.75	11.8	K 5.25	K 17.2	K 2.50	1.85	1.45	1.35	1.55	10.6	6.25		
6.	1.35	10.6	D 2.90	6.75	10.9	K 5.00	K 10.9	K 8.50	1.70	1.45	1.35	3.30	8.00	5.50		
7.	1.70	9.10	R 2.90	6.00	13.0	K 4.75	K 9.40	K 6.75	1.70	2.00	1.25	2.90	7.00	5.00		
8.	16.2	7.25	R 2.70	5.75	12.7	K 4.50	K 7.50	K 4.75	1.70	2.15	1.25	2.15	9.10	4.50		
9.	13.6	6.25	R 2.70	6.00	10.9	K 4.30	K 6.50	K 3.70	1.55	2.00	1.25	1.85	18.5	R 4.10		
10.	6.75	5.50	R 2.15	19.7	9.70	K 4.30	K 5.75	K 4.10	1.55	2.30	2.50	1.70	12.7	R 3.90		
11.	4.75	5.00	R 1.85	12.7	8.50	K 4.10	K 14.0	K 4.50	2.00	2.15	3.30	1.55	21.9	R 3.90		
12.	4.10	4.75	R 2.50	17.2	8.00	K 4.10	K 9.70	K 3.70	1.55	2.30	1.85	1.45	13.6	R 3.70		
13.	7.00	4.75	2.30	83.1	7.50	K 3.90	K 8.50	K 3.30	1.55	2.00	1.45	1.45	10.3	R 3.50		
14.	5.75	4.10	2.15	37.0	8.00	K 5.25	K 6.75	K 3.10	2.70	1.70	1.45	1.45	8.80	R 3.50		
15.	4.30	R 4.75	R 1.85	18.9	8.25	K 5.00	K 6.00	K 2.90	2.00	1.55	1.45	1.45	7.75	R 3.30		
16.	3.70	3.70	RRR 2.00	14.4	7.50	K 4.30	K 5.50	K 2.70	1.70	1.55	1.45	2.15	7.25	3.30		
17.	3.30	3.30	RRR 2.00	12.1	7.00	K 4.10	K 5.00	K 2.50	3.70	1.45	1.35	5.25	6.75	4.50		
18.	3.10	3.30	R 2.00	10.9	6.50	K 3.90	K 4.75	K 2.30	7.00	1.55	1.35	3.90	6.00	3.90		
19.	2.90	3.30	2.00	10.3	9.40	K 3.90	K 5.00	K 2.15	3.50	1.45	1.35	5.90	5.75	3.30		
20.	2.70	3.30	4.50	22.9	11.2	K 3.90	K 4.50	K 2.50	2.30	1.35	1.35	4.10	5.25	3.10		
21.	2.50	3.10	37.0	25.3	33.9	K 3.70	K 4.30	K 2.50	2.00	1.35	1.35	3.10	5.00	3.10		
22.	3.50	3.30	23.8	13.6	23.3	K 3.30	K 4.10	K 2.50	1.70	1.45	1.55	8.00	4.75	6.75		
23.	7.50	3.10	17.2	18.0	16.5	K 3.30	K 3.90	K 2.15	1.70	1.45	1.55	15.1	4.75	18.0		
24.	5.00	3.50	19.3	15.8	12.7	K 3.70	K 4.10	K 2.00	1.70	1.45	1.45	12.4	4.30	9.70		
25.	5.25	3.50	17.6	20.2	10.9	K 5.00	K 3.70	K 1.85	1.85	1.35	1.35	7.25	4.10	8.25		
26.	14.0	3.50	14.0	59.3	9.70	K 4.10	K 3.50	K 1.85	1.70	1.35	1.85	15.4	3.90	7.25		
27.	16.2	3.10	33.3	68.7	8.50	K 5.00	K 3.30	K 1.85	1.70	1.45	1.85	14.7	3.70	7.75		
28.	12.1	4.10	63.6	35.2	8.25	K 5.75	K 4.10	K 1.70	1.55	4.50	1.70	13.0	3.70	7.00		
29.	9.70	6.75	27.8	7.75	7.75	K 5.50	K 3.50	K 1.70	1.45	2.00	1.45	8.25	4.75	7.00		
30.	18.9	5.10	16.8	7.25	7.25	K 5.75	K 3.30	K 1.70	1.35	1.70	1.45	6.75	18.5	44.9		
31.	4.30	4.30	12.7	6.75	6.75	K 5.75	K 3.10	K 1.70	1.55	1.55	1.45	6.00	6.00	56.8		
Tag	6.	21.+	11.+	8.	18.	22.+	31.	28.+	30.	20.+	7.+	2.+	27.+	20.+		
NQ	1.35	3.10	1.85	5.75	6.50	3.30	3.10	1.70	1.35	1.35	1.25	1.35	3.70	3.10		
HQ	6.12	5.51	10.8	20.8	11.8	4.65	6.53	3.02	2.05	1.74	1.55	5.06	8.58	8.99		
Tag	55.9	13.0	87.4	109	61.0	7.00	30.9	17.6	8.25	10.0	5.25	26.7	41.3	119		
Tag	8.	1.	28.	13.	21.	29.	4.	6.	18.	28.	10.	23.	11.	31.		
h _N mm	40	37	73	126	79	30	44	20	14	12	10	34	56	60		
h _A mm																
	1940/2001		1941/2002 62 Kalenderjahre ²													
Jahr	1976	1991	1941	1954	1963	1960	1953+	1947	1964	1947	1964	1976	1976	1991		
NQ	0.480	0.730	0.200	1.01	1.18	1.45	1.01	0.300	0.450	0.300	0.180	0.180	0.480	0.730		
MNQ	2.28	2.90	3.32	3.67	3.83	3.85	2.72	2.19	1.86	1.60	1.53	1.74	2.29	2.91		
HQ	4.53	6.90	7.49	7.52	7.96	6.79	4.25	3.77	3.26	2.60	2.54	3.33	4.53	6.94		
MHQ	23.7	36.3	37.0	31.5	33.0	24.0	13.9	17.1	16.1	13.0	9.95	13.7	22.2	37.9		
HQ	134	182	147	122	128	136	63.0	218	154	121	80.6	63.0	116	182		
Jahr	1940	1947	1995	1970	1942+	1994	1982	1981	1966	1981	1998	1974	1977	1947		
Mh _N mm	29	46	50	46	53	44	29	25	22	17	16	22	29	47		
Mh _A mm																
			Abflussjahr (*) 2002				Kalenderjahr 2002				Unterschrittene Abflüsse m ³ /s					
			Jahr		Datum		Winter		Sommer		Jahr		Datum		Untere Hüllkurve	
NQ	m ³ /s	1.25	am	07.09.2002	1.35	1.25	1.25	am	07.09.2002	364	83.1	83.1	97.9	40.2	11.0	
HQ	m ³ /s	6.54			9.81	3.33	7.04			363	68.7	68.7	74.2	33.9	11.0	
MNQ	m ³ /s	109	am	13.02.2002	109	30.9	119	am	31.12.2002	362	63.6	63.6	63.6	28.3	11.0	
MHQ	m ³ /s		bei W = 223 cm					bei W = 233 cm		361	59.3	59.3	59.3	25.3	10.0	
Nq	l/(skm ²)	3.13			3.38	3.13	3.13			360	37.0	56.8	56.8	23.3	9.92	
Mq	l/(skm ²)	16.4			24.6	8.36	17.6			359	37.0	44.9	44.9	21.6	9.48	
Hq	l/(skm ²)	273			273	77.4	298			358	35.2	37.0	39.6	20.5	8.00	
h _N mm										357	33.9	35.2	39.0	19.7	7.75	
h _A mm										356	33.3	35.2	37.8	18.9	7.75	
		517			384	133	557			355	22.9	23.3	27.0	15.2	6.45	
										340	17.2	18.5	21.3	12.1	4.26	
										330	14.7	15.8	18.0	10.3	3.87	
										320	13.0	13.6	15.7	9.05	3.57	
										300	9.70	10.3	12.5	7.45	3.26	
										270	7.25	7.75	9.63	5.90	2.67	
										240	5.50	6.00	7.92	4.80	2.12	
										210	4.30	4.75	6.98	4.06	1.88	
										183	3.70	4.10	6.11	3.48	1.66	
										150	3.10	3.30	5.24	2.91	1.29	
										130	2.50	2.70	5.01	2.60	1.10	
										120	2.30	2.50	4.85	2.49	1.10	
										110	2.00	2.15	4.65	2.38	0.960	
										100	2.00	2.00	4.57	2.25	0.960	
										90	1.85	1.85	4.35	2.11	0.830	
										80	1.70	1.85	4.12	2.00	0.830	
										70	1.70	1.70	4.06	1.87	0.700	
										60	1.55	1.55	3.87	1.75	0.700	
										50	1.55	1.55	3.68	1.64	0.580	
										40	1.45	1.45	3.68	1.50	0.580	
										30	1.45	1.45	3.30	1.35	0.580	
										25	1.45	1.45	3.30	1.27	0.580	
										20	1.35	1.35	3.11	1.18	0.480	
										15	1.35	1.35	2.94	1.07	0.450	
										10	1.35	1.35	2.94	0.910	0.450	
										9	1.35	1.35	2.94	0.910	0.380	
										8	1.35	1.35	2.94	0.850	0.380	
										7	1.35	1.35	2.94	0.850	0.380	
										6	1.35	1.35	2.94	0.830	0.380	
										5	1.35	1.35	2.94	0.790	0.380	
										4	1.35	1.35	2.94	0.740	0.310	
										3	1.35	1.35	2.77	0.700	0.310	
										2	1.25	1.25	2.77	0.590	0.300	
										1	1.25	1.25	2.60	0.520	0.300	
										0	1.25	1.25	2.60	0.180	0.180	
			Niedrigwasser				Hochwasser									
		m ³ /s	l/(skm ²)	Datum		m ³ /s	l/(skm ²)	cm	Datum							
1	0.180	0.451	30.10.1976	218	546	295	04.06.1981									
2	0.180	0.451	04.09.1964	182	456	330	28.12.1947									
3	0.200	0.501	19.01.1941	154	386	259	19.07.1966									
4	0.300	0.752	29.06.1947	147	368	254	23.01.1995									
5	0.520	1.30	27.08.1944	145	363	252	24.12.1967									

A_{EO} : 305.20 km²
 PNP : NN+ 216.31 m
 Lage : 10.60 km oberhalb der Mündung rechts



Pegel : Eisenach-Petersberg Nr. 429010
 Gewässer: Hörsel
 Gebiet : Werra

m³/s

	Tag	2001		2002												
		Nov	Dez	Jan	Feb	Mrz	Apr	Mai	Jun	Jul	Aug	Sep	Okt	Nov	Dez	
Tageswerte	1.	0.860	5.90	2.45	7.30	13.7	3.61	2.54	1.92	1.10	0.810	1.10	0.970	4.50	16.2	
	2.	0.760	5.61	2.36	6.05	11.3	3.30	2.54	1.76	1.24	0.810	0.970	0.970	7.70	11.5	
	3.	0.760	4.77	R	2.09	5.19	8.95	3.10	2.63	1.68	0.710	0.910	0.910	14.7	8.95	
	4.	0.760	4.50	R	1.76	4.50	7.30	2.81	5.90	1.60	1.10	0.710	0.970	0.970	16.5	6.90
	5.	0.760	4.50	R	1.68	4.16	6.20	2.72	7.30	1.92	1.03	0.810	0.910	1.31	13.7	6.35
	6.	0.810	6.70	R	1.60	4.05	5.47	2.54	6.20	2.36	1.03	0.760	0.860	3.94	10.5	5.75
	7.	0.910	6.35	R	1.60	3.50	5.33	2.36	5.61	5.75	0.970	0.810	0.810	3.30	7.95	4.91
	8.	6.90	5.75	R	1.52	3.40	4.63	2.27	4.91	5.90	0.910	1.84	0.810	2.81	7.50	4.38
	9.	8.20	4.91	R	1.45	3.30	4.27	2.27	4.38	3.72	0.860	1.45	0.860	2.18	19.4	3.83
	10.	4.63	4.16	R	1.38	5.19	3.94	2.18	4.27	3.40	1.17	1.52	1.10	1.92	15.5	3.30
	11.	3.61	3.72		1.52	4.38	3.61	2.18	7.30	2.90	1.31	1.60	3.00	1.76	17.6	3.00
	12.	3.20	3.61		1.52	5.19	3.30	2.18	5.75	2.36	0.970	3.61	1.45	1.45	14.5	2.81
	13.	3.40	3.40		1.45	13.1	3.20	2.27	5.19	2.36	0.910	2.09	1.10	1.38	12.0	2.81
	14.	2.90	2.72		1.38	12.0	3.94	3.20	4.50	2.63	1.10	1.38	0.970	1.31	10.0	2.90
	15.	2.54	2.63		1.31	9.20	4.16	2.72	4.05	3.20	0.970	1.17	1.03	1.24	7.95	2.63
	16.	2.36	2.63		1.31	7.10	5.19	2.54	3.50	4.38	0.970	1.03	0.910	1.60	6.50	2.72
	17.	2.27	2.45		1.31	5.90	8.45	2.54	3.20	2.90	3.30	1.17	0.860	3.00	5.61	3.00
	18.	2.09	2.27		1.31	5.05	7.30	2.45	2.90	2.45	3.94	2.00	0.860	3.10	4.63	2.72
	19.	2.00	2.27		1.38	4.91	9.70	2.36	3.10	2.09	2.00	1.17	0.860	5.75	4.27	2.45
	20.	1.84	2.18		2.18	12.8	10.8	2.18	2.72	2.09	1.52	1.03	0.860	4.27	4.05	2.45
	21.	1.68	2.00		14.2	13.4	12.8	2.00	2.45	2.09	1.24	1.24	0.860	3.40	3.83	2.36
	22.	2.27	2.00		14.2	10.0	13.1	2.00	2.36	2.09	1.10	1.03	0.910	5.61	3.72	3.40
	23.	3.30	1.84		12.0	12.0	12.3	1.92	2.18	1.68	1.03	1.52	1.17	11.8	3.83	14.2
	24.	2.72	1.76		12.3	11.3	10.3	2.36	2.72	1.52	1.03	1.92	1.31	9.20	3.40	9.45
	25.	2.54	1.92		12.3	10.0	8.45	2.27	2.18	1.45	1.10	1.24	1.03	6.50	3.30	8.45
	26.	3.30	2.00		11.5	17.0	6.70	2.09	2.00	1.38	1.03	1.03	1.76	8.45	3.10	7.50
	27.	4.50	1.92		16.0	21.2	5.75	2.63	2.09	1.31	1.03	1.10	1.52	9.70	2.90	8.20
	28.	5.75	2.63		18.8	18.2	4.91	3.10	4.63	1.31	0.910	1.84	1.24	13.4	2.81	7.95
	29.	5.61	4.38		15.5	4.50	4.50	3.00	3.00	1.31	0.860	2.81	1.10	8.70	3.72	7.50
	30.	6.90	3.40		12.0	4.05	4.05	2.81	2.45	1.17	0.810	1.60	1.03	6.50	18.5	21.2
	31.		2.81		9.70	3.94	3.94	2.09	2.09	1.17	0.810	1.24		5.19	31.4	
Tag	2.+	24.		15.+	9.	13.	23.	26.	30.	30.+	3.+	7.+	3.	28.	21.	
NQ	0.760	1.76		1.31	3.30	3.20	1.92	2.00	1.17	0.810	0.710	0.810	0.910	2.81	2.36	
MQ	3.00	3.47		5.84	8.55	7.02	2.53	3.76	2.42	1.24	1.39	1.10	4.28	8.47	7.13	
HQ	15.7	7.70		20.9	24.2	15.5	3.72	10.0	8.45	6.05	5.61	5.05	19.1	25.1	39.4	
Tag	8.	6.		27.	27.	1.	1.	11.	7.	17.	12.	11.	27.	9.	31.	
h _N mm	26	30		51	68	62	22	33	21	11	12	9	38	72	63	
h _A mm																
	1939/2001		1940/2002 63 Kalenderjahre ²													
Jahr	1991	1969	1970	1972	1972	1953	1953	1976	1976	1991	1991	1991	1991	1991	1969	
NQ	0.240	0.400	0.340	0.600	0.600	0.760	0.600	0.310	0.210	0.220	0.160	0.200	0.240	0.400		
MNQ	1.33	1.70	2.01	2.29	2.26	2.34	1.44	1.14	0.925	0.837	0.817	0.943	1.32	1.70		
MQ	2.79	4.09	4.66	4.89	5.32	4.69	2.64	2.42	1.83	1.61	1.28	1.84	2.77	4.10		
MHQ	10.2	14.0	15.3	15.5	17.5	15.5	8.27	11.5	8.21	7.80	4.11	6.18	9.99	14.1		
HQ	64.4	65.6	50.5	72.3	60.0	113	34.0	76.0	75.7	125	18.5	33.2	64.4	65.6		
Jahr	1940	1965	1987	1946	1942	1961	1984	1961	1956	1981	1989	1986	1940	1965		
Mh _N mm	24	36	41	39	47	40	23	21	16	14	11	16	24	36		
Mh _A mm																
Hauptwerte			Abflussjahr (*) 2002				Kalenderjahr 2002				Unterschrittene Abflüsse m ³ /s					
			Jahr		Datum		Winter		Sommer		Jahr		Datum		1940/2002 63 Kalenderjahre ²	
															Obere Hüllkurve	
															Mittlere Werte	
															Untere Hüllkurve	
	NQ	m ³ /s	0.710 am 03.08.2002		0.760		0.710		0.710 am 03.08.2002		364		21.2		31.4	
	MQ	m ³ /s	3.69		5.04		2.37		4.45		363		18.8		21.2	
	HQ	m ³ /s	24.2 am 27.02.2002 bei W = 140 cm		24.2		19.1		39.4 am 31.12.2002 bei W = 186 cm		362		18.2		21.2	
	Nq	l/(skm ²)	2.33		2.49		2.33		2.33		361		17.0		19.4	
	Mq	l/(skm ²)	12.1		16.5		7.77		14.6		360		16.0		18.8	
	Hq	l/(skm ²)	79.3		79.3		62.6		129		359		15.5		18.5	
	h _N	mm	382		258		124		460		358		14.2		18.2	
	h _A	mm									357		14.2		17.6	
											356		13.7		17.0	
											355		12.8		14.7	
										350		11.3		13.1		
										340		9.20		12.0		
										330		7.30		10.0		
										320		5.75		7.50		
										300		4.38		5.33		
										270		3.40		4.05		
										240		2.81		3.30		
										210		2.36		2.81		
										183		2.09		2.27		
										150		1.84		2.00		
										130		1.68		1.84		
										120		1.52		1.60		
										110		1.45		1.52		
										100		1.31		1.38		
										90		1.24		1.31		
										80		1.17		1.24		
										70		1.10		1.10		
										60		1.03		1.03		
										50		0.970		1.03		
										40		0.910		0.970		
										30		0.860		0.910		
										25		0.860		0.910		
										20		0.860		0.910		
										15		0.810		0.860		
										10		0.810		0.810		
										9		0.810		0.810		
										8		0.810		0.810		
										7		0.810		0.810		
										6		0.760		0.810		
										5		0.760		0.810		
										4		0.760		0.810		
										3		0.760		0.810		
										2		0.760		0.760		
										1		0.710		0.710		
										0		0.710		0.710		
Extremwerte			Niedrigwasser				Hochwasser									
			m ³ /s		Datum		m ³ /s		l/(skm ²)		cm		Datum			
	1	0.160	0.524	14.09.1991	125	410							11.08.1981			
	2	0.190	0.623	19.09.1959	113	370							29.04.1961			
	3	0.210	0.688	10.07.1976	90.4	296			282				13.04.1994			
	4	0.240	0.786	26.07.1995	76.0	249							10.06.1961			
	5	0.290	0.950	15.09.1999	75.7	248							15.07.1956			
	6	0.300	0.983	09.09.1989	72.3	237							08.02.1946			
	7	0.300	0.983	14.09.1974	68.6	225							04.06.1958			
	8	0.320	1.05	04.09.1964	65.6	215							10.12.1965			
9	0.330	1.08	17.08.2000	64.4	211							20.04.1983				
10	0.340	1.11	04.01.1970	64.4												

A_{Eo} : 105.20 km²
 PNP : NN+ 283.07 m
 Lage : 30.50 km oberhalb der Mündung rechts



m³/s

Pegel : Teutleben Nr. 429050
 Gewässer: Hörsel
 Gebiet : Werra

Tag	2001		2002											
	Nov	Dez	Jan	Feb	Mrz	Apr	Mai	Jun	Jul	Aug	Sep	Okt	Nov	Dez
1.	0.300	1.60	0.840	2.20	6.20	0.620	0.560	0.560	0.260	0.200	0.350	0.350	1.94	6.26
2.	0.260	1.45	0.500	1.60	4.15	0.620	0.560	0.560	0.300	0.200	0.350	0.350	3.10	3.84
3.	0.260	1.20	0.400	1.30	2.80	0.620	0.620	0.560	0.260	0.170	0.300	0.300	5.74	3.00
4.	0.230	1.20	0.300	1.01	2.20	0.620	1.60	0.560	0.230	0.170	0.300	0.350	6.26	2.40
5.	0.230	1.20	0.300	0.840	1.75	0.620	2.65	0.920	0.230	0.180	0.260	0.500	4.90	2.50
6.	0.300	2.20	0.230	0.760	1.30	0.560	2.35	1.45	0.260	0.180	0.230	1.60	3.51	2.30
7.	0.300	2.05	0.230	0.690	1.20	0.560	2.20	4.60	0.260	0.230	0.230	1.75	2.80	2.03
8.	2.95	2.05	R 0.350	0.690	1.01	0.560	1.90	3.85	0.230	0.620	0.260	1.60	2.60	1.76
9.	2.65	1.45	R 0.350	0.760	0.920	0.560	1.10	2.35	0.200	0.260	0.300	1.30	9.80	1.60
10.	1.45	1.01	R 0.300	1.75	1.01	0.560	1.45	1.60	0.400	0.450	0.560	0.920	5.50	1.36
11.	1.01	0.840	R 0.230	1.30	0.840	0.560	4.00	1.20	0.300	0.450	1.10	0.840	7.30	1.12
12.	0.760	0.760	R 0.260	1.75	0.760	0.450	3.10	0.840	0.230	2.20	0.300	0.500	5.26	R 1.04
13.	0.840	0.760	R 0.260	5.95	0.690	0.500	2.50	0.760	0.200	0.690	0.200	0.500	4.06	R 0.980
14.	0.620	0.500	R 0.260	3.70	0.920	0.760	2.05	0.840	0.260	0.450	0.300	0.500	3.20	R 0.980
15.	0.620	0.450	R 0.260	2.50	1.01	0.560	1.75	1.20	0.230	0.400	0.350	0.450	2.90	R 0.980
16.	0.620	0.500	R 0.300	2.05	2.05	0.620	0.920	1.45	0.300	0.300	0.300	0.620	2.50	R 0.920
17.	0.620	0.500	R 0.300	1.60	3.55	0.690	1.01	0.760	1.01	0.560	0.300	1.10	2.03	R 0.980
18.	0.560	0.450	0.300	1.20	2.80	0.560	0.840	0.620	1.01	0.690	0.260	1.75	1.60	0.920
19.	0.560	0.450	0.350	1.20	4.15	0.500	1.01	0.400	0.230	0.350	0.260	2.50	1.36	0.920
20.	0.500	0.450	0.840	7.40	4.45	0.450	0.760	0.450	0.230	0.300	0.260	3.10	1.44	0.860
21.	0.450	0.350	8.00	5.35	5.65	0.350	0.620	0.560	0.230	0.300	0.230	3.55	1.44	0.860
22.	0.920	0.400	5.35	3.25	5.65	0.350	0.620	0.560	0.200	0.350	0.300	3.85	1.28	1.60
23.	1.75	0.350	4.15	4.30	4.30	0.300	0.500	0.400	0.200	0.760	0.400	4.00	1.20	5.50
24.	1.30	0.260	4.30	3.70	2.80	0.500	0.920	0.300	0.180	0.840	0.400	4.15	1.04	3.51
25.	1.30	0.260	4.00	3.40	2.05	0.500	0.500	0.300	0.180	0.500	0.350	3.10	0.920	3.30
26.	2.05	0.350	3.55	9.80	1.45	0.560	0.450	0.350	0.180	0.350	0.560	3.85	0.860	3.10
27.	2.50	0.450	7.80	15.7	1.10	0.840	0.760	0.300	0.180	0.350	0.450	5.35	0.750	3.30
28.	2.65	0.690	8.60	9.00	1.10	1.01	2.95	0.300	0.180	1.10	0.400	6.05	0.980	3.30
29.	1.90	1.75	6.05		1.01	0.760	1.45	0.350	0.170	1.30	0.350	4.00	1.76	2.80
30.	2.05	1.01	3.85		0.840	0.690	0.840	0.300	0.170	0.450	0.350	2.80	10.6	11.0
31.		0.690	2.80		0.760		0.620		0.170	0.350		2.21		19.6
Tag	4.+	24.+	6.+	7.+	13.	23.	26.	24.+	29.+	3.+	13.	3.	27	20.+
NQ	0.230	0.260	0.230	0.690	0.690	0.300	0.450	0.300	0.170	0.170	0.200	0.300	0.750	0.860
MQ	1.08	0.891	2.12	3.38	2.27	0.580	1.39	0.975	0.280	0.506	0.352	2.06	3.29	3.05
HQ	5.65	2.50	11.2	19.0	6.50	1.20	5.80	5.80	3.25	4.00	2.95	12.0	20.2	30.0
Tag	8.	6.	27.	27.	22.	28.	11.	7.	18.	12.	11.	27.	30.	31.
h _N mm	27	23	54	78	58	14	35	24	7	13	9	52	81	78
h _A mm														
	1963/2001		1964/2002 39 Kalenderjahre											
Jahr	1997	1969	1970	1972+	1972	1972	2000	1964	1976	1976	1966	1964	1997	1969
NQ	0.090	0.180	0.180	0.240	0.240	0.240	0.160	0.120	0.110	0.110	0.050	0.050	0.090	0.180
MNQ	0.453	0.666	0.673	0.765	0.820	0.874	0.535	0.383	0.320	0.281	0.276	0.343	0.454	0.673
MQ	0.989	1.81	1.72	1.69	2.01	1.79	1.01	0.776	0.554	0.601	0.439	0.749	1.03	1.86
MHQ	4.31	7.96	8.12	6.95	8.73	7.89	3.75	5.08	3.13	5.77	1.63	3.24	4.69	8.69
HQ	26.2	39.6	27.8	43.0	29.1	66.2	18.0	39.4	21.2	78.8	7.05	29.5	26.2	39.6
Jahr	1998	1965	1987	1984	1979	1994	1969	1975	1966	1981	1998	1986	1998	1965
Mh _N mm			44	39	51	44	26	19	14	15	11	19	25	47
Mh _A mm	24	46												
	Abflussjahr (*) 2002		Kalenderjahr 2002		Unterschrittene Abflüsse m ³ /s									
	Jahr	Datum	Winter	Sommer	Jahr	Datum	Unter-schreitungs-dauer in Tagen	Abfluss-jahr (*) 2002	Kalender-jahr 2002	1964/2002 39 Kalenderjahre				
										Obere Hüllkurve	Mittlere Werte	Untere Hüllkurve		
NQ	m ³ /s	0.170 am 29.07.2002	0.230	0.170	0.170 am 29.07.2002	364	15.7	19.6	63.2	11.9	2.98			
MQ	m ³ /s	1.31	1.70	0.930	1.68	363	9.80	15.7	20.4	9.80	2.59			
HQ	m ³ /s	19.0 am 27.02.2002 bei W = 162 cm	19.0	12.0	30.0 am 31.12.2002 bei W = 195 cm	362	9.00	11.0	16.4	8.52	2.59			
Nq	l/(skm ²)	1.62	2.19	1.62	1.62	361	8.60	10.6	14.2	7.38	2.59			
Mq	l/(skm ²)	12.5	16.2	8.84	16.0	360	8.00	9.80	13.4	7.15	2.59			
Hq	l/(skm ²)	181	181	114	285	359	7.80	9.80	13.1	6.26	2.45			
h _N mm						358	7.40	9.00	13.1	5.85	1.90			
h _A mm						357	6.20	8.60	13.1	5.51	1.90			
						356	6.05	8.00	12.4	5.21	1.90			
						355	5.35	6.20	10.3	4.00	1.53			
						340	4.15	5.35	7.15	3.06	1.17			
						330	3.70	4.15	7.15	2.60	1.02			
						320	2.95	3.85	4.95	2.20	0.880			
						300	2.20	3.10	3.16	1.70	0.740			
						270	1.45	2.05	2.74	1.30	0.590			
						240	1.01	1.36	2.37	1.01	0.460			
						210	0.760	1.01	1.73	0.810	0.400			
						183	0.620	0.840	1.45	0.690	0.350			
						150	0.560	0.620	1.18	0.560	0.290			
						130	0.450	0.560	1.07	0.500	0.220			
						120	0.450	0.500	0.980	0.460	0.200			
						110	0.400	0.450	0.900	0.420	0.150			
						100	0.350	0.400	0.900	0.410	0.120			
						90	0.350	0.350	0.880	0.370	0.120			
						80	0.300	0.350	0.810	0.360	0.120			
						70	0.300	0.300	0.810	0.320	0.120			
						60	0.300	0.300	0.810	0.310	0.120			
						50	0.260	0.300	0.740	0.290	0.120			
						40	0.260	0.260	0.740	0.260	0.120			
						30	0.230	0.230	0.690	0.230	0.080			
						25	0.230	0.230	0.690	0.210	0.080			
						20	0.230	0.230	0.680	0.200	0.080			
						15	0.200	0.200	0.620	0.180	0.080			
						10	0.180	0.180	0.620	0.180	0.080			
						9	0.180	0.180	0.620	0.170	0.080			
						8	0.180	0.180	0.620	0.170	0.080			
						7	0.180	0.180	0.620	0.170	0.080			
						6	0.180	0.180	0.620	0.160	0.080			
						5	0.180	0.180	0.620	0.140				

A_{Eo} : 275.00 km²
 PNP : NN+ 196.98 m
 Lage : 247.10 km oberhalb der Mündung links



m³/s

Pegel : Arenshausen Nr. 447000
 Gewässer: Leine
 Gebiet : Leine

	Tag	2001		2002														
		Nov	Dez	Jan	Feb	Mrz	Apr	Mai	Jun	Jul	Aug	Sep	Okt	Nov	Dez			
Tageswerte	1.	1.00	3.40	2.60	5.90	8.95	3.88	3.56	2.36	1.80	2.36	2.12	1.70	3.56	7.20			
	2.	1.00	4.04	2.60	5.30	7.95	3.72	3.40	2.24	1.90	2.12	2.12	1.60	5.70	7.02			
	3.	1.00	3.72	2.48	4.74	7.02	3.40	3.72	2.24	1.90	1.90	2.12	1.50	7.20	6.56			
	4.	1.00	3.56	2.24	4.38	6.33	3.24	9.45	2.12	1.80	1.90	2.12	1.70	9.95	6.10			
	5.	1.00	3.56	2.24	4.20	5.90	3.24	8.70	2.12	1.80	1.80	2.12	1.80	7.20	5.90			
	6.	1.00	4.20	2.24	4.04	5.50	3.08	7.95	4.04	1.70	1.80	2.00	4.74	6.56	5.30			
	7.	1.10	4.20	2.24	3.72	5.50	2.92	7.95	5.10	1.70	1.90	2.00	3.88	6.33	4.92			
	8.	2.24	3.72	2.24	3.56	4.74	2.76	7.20	4.74	1.70	2.36	2.00	3.40	7.70	4.56			
	9.	2.24	3.56	2.12	3.56	4.56	2.60	6.56	3.40	1.60	2.00	1.90	3.08	12.7	4.20			
	10.	1.90	3.40	2.00	4.38	4.38	2.60	6.56	3.40	1.90	2.48	2.24	2.92	8.70	4.04			
	11.	1.70	3.40	2.00	3.88	4.04	2.60	13.0	3.24	2.00	2.60	3.08	2.76	12.2	3.88			
	12.	1.70	3.24	2.00	4.92	3.88	2.48	8.45	2.92	1.70	2.76	2.12	2.60	10.4	3.56			
	13.	1.70	3.08	2.00	4.92	3.72	2.48	7.20	3.08	1.60	2.36	1.90	2.36	9.20	3.40			
	14.	1.70	2.76	1.90	4.56	3.88	2.76	6.10	2.76	1.70	2.24	1.90	2.36	8.45	3.40			
	15.	1.60	2.60	1.80	4.20	3.88	2.76	5.50	2.92	1.60	2.12	2.00	2.36	7.70	3.40			
	16.	1.60	2.48	1.80	4.20	3.72	3.08	4.92	2.92	1.60	2.00	1.90	2.48	7.02	3.40			
	17.	1.50	2.36	1.70	4.04	3.56	2.76	4.56	2.60	4.92	2.00	1.90	2.60	7.02	3.88			
	18.	1.50	2.12	1.70	3.88	3.40	2.76	4.20	2.48	7.45	2.00	1.90	2.48	5.90	3.40			
	19.	1.50	2.00	1.70	3.88	4.74	3.40	3.88	2.36	3.88	1.90	1.90	3.08	5.50	3.08			
	20.	1.50	2.24	2.12	5.50	4.38	3.08	3.56	2.48	3.56	1.80	1.90	2.60	5.10	2.92			
	21.	1.50	2.12	11.2	5.50	5.10	2.76	3.40	2.36	3.72	1.90	1.90	2.48	4.92	2.92			
	22.	1.60	1.90	9.70	4.74	6.56	2.76	3.24	2.24	3.24	1.90	2.00	2.92	4.74	4.92			
	23.	1.90	1.80	8.45	5.90	6.10	2.76	3.08	2.24	2.92	2.24	1.90	3.40	4.38	13.7			
	24.	1.70	1.90	7.95	5.90	5.70	2.92	3.24	2.00	2.92	1.90	1.90	3.40	4.20	5.50			
	25.	1.70	2.48	7.95	6.10	5.70	2.92	2.92	2.00	2.60	1.80	1.90	3.08	4.04	7.45			
	26.	2.00	2.48	7.02	12.4	5.50	2.76	2.76	2.00	2.48	1.70	2.00	3.24	3.88	6.33			
	27.	2.24	2.24	9.70	13.0	5.30	3.40	2.60	2.00	2.36	1.80	1.80	3.56	3.72	6.70			
	28.	2.60	2.76	8.95	10.2	4.92	3.40	3.56	2.00	2.24	2.36	1.70	4.38	3.56	5.70			
	29.	2.76	3.72	7.70	4.74	4.74	3.40	2.76	2.12	2.12	2.92	1.70	3.88	3.88	5.70			
	30.	3.40	3.08	7.02	4.56	4.56	3.72	2.48	2.00	2.00	2.48	1.70	3.88	9.70	17.4			
	31.		2.76	6.33	4.38	4.38		2.48	2.00	2.00	2.24		3.56		19.7			
Hauptwerte	Tag	1.+	23.	17.+	8.+	18.	12.+	30.+	24.+	9.+	26.	28.+	3.	1.+	20.+			
	NQ	1.00	1.80	1.70	3.56	3.40	2.48	2.48	2.00	1.60	1.70	1.70	1.50	3.56	2.92			
	MQ	1.70	2.93	4.31	5.41	5.12	3.01	5.13	2.68	2.46	2.12	1.99	2.90	6.70	6.01			
	HQ	4.20	6.56	14.4	15.0	9.45	4.20	17.2	22.8	12.2	7.02	6.56	8.45	16.7	31.2			
	Tag	28.	11.	21.	27.	1.	19.	11.	6.	18.	23.	10.	6.	9.	30.			
	h _N mm	16	29	42	48	50	28	50	25	24	21	19	28	63	59			
	h _A mm																	
		1959/2001		1960/2002 43 Kalenderjahre														
	Jahr	1959	1959	1977	1996	1963	1991	1993	1990	1990	1990	1991	1991	1980	1976			
	NQ	0.400	0.400	0.600	0.880	0.940	0.950	0.520	0.790	0.650	0.550	0.400	0.370	0.470	0.450			
	MNQ	1.19	1.54	1.73	2.14	2.27	2.65	2.01	1.57	1.20	1.02	0.964	1.01	1.26	1.60			
	MQ	1.92	3.01	3.45	3.80	4.20	3.96	2.90	2.72	1.78	1.42	1.33	1.56	2.06	3.13			
	MHQ	5.60	10.0	10.9	11.1	11.4	9.09	7.75	13.0	5.88	5.08	4.40	4.31	5.96	10.7			
	HQ	30.1	50.5	46.6	36.0	36.0	41.0	29.0	92.8	21.0	33.3	30.7	16.9	30.1	50.5			
	Jahr	1998	1986	1987	1970	1987	1983	1984	1981	1972	1981	1986	1986	1998	1986			
Mh _N mm	18	29	34	34	41	37	28	26	17	14	13	15	19	30				
Mh _A mm																		
Dauertabelle	Abflussjahr (*) 2002		Kalenderjahr 2002				Unterschrittene Abflüsse m ³ /s											
	Jahr		Datum		Winter		Sommer		Jahr		Datum		Abflussjahr (*) 2002		Kalenderjahr 2002		1960/2002 43 Kalenderjahre	
													Obere Hüllkurve		Mittlere Werte		Untere Hüllkurve	
	NQ	m ³ /s	1.00	am 01.11.2001	1.00	1.50	1.50	am 03.10.2002	364	13.0	19.7	60.8	18.0	4.40				
	MQ	m ³ /s	3.31		3.73	2.89	3.98		363	13.0	17.4	32.6	14.6	4.19				
	HQ	m ³ /s	22.8	am 06.06.2002 bei W = 162 cm	15.0	22.8	31.2	am 30.12.2002 bei W = 187 cm	362	12.4	13.7	32.6	12.8	4.19				
	Nq	l/(skm ²)	3.64		3.64	5.45	5.45		361	11.2	13.0	30.0	11.9	3.95				
	Mq	l/(skm ²)	12.0		13.6	10.5	14.5		360	10.2	13.0	28.2	11.2	3.13				
	Hq	l/(skm ²)	82.9		54.5	82.9	113		359	9.70	12.7	26.4	10.5	3.13				
	h _N	mm							358	9.70	12.4	23.8	10.1	2.74				
	h _A	mm	379		212	167	456		357	9.45	11.2	22.6	9.60	2.74				
									356	8.95	11.2	21.8	9.20	2.55				
									350	7.95	9.70	18.2	7.51	2.55				
									340	7.02	7.95	13.6	6.16	2.37				
									330	5.90	7.20	11.6	5.30	2.19				
								320	5.50	7.02	9.51	4.70	2.03					
								300	4.56	5.90	7.19	3.89	1.82					
								270	3.72	4.74	5.74	3.20	1.55					
								240	3.40	3.88	4.88	2.60	1.30					
								210	2.92	3.56	4.61	2.21	1.15					
								183	2.76	3.24	3.63	1.93	1.06					
								150	2.36	2.76	3.20	1.60	0.880					
								130	2.24	2.60	3.00	1.44	0.860					
								120	2.12	2.48	3.00	1.41	0.820					
								110	2.12	2.36	3.00	1.30	0.820					
								100	2.00	2.24	2.81	1.26	0.790					
								90	2.00	2.12	2.81	1.20	0.760					
								80	1.90	2.12	2.62	1.16	0.760					
								70	1.90	2.00	2.62	1.10	0.700					
								60	1.90	2.00	2.44	1.06	0.680					
								50	1.80	1.90	2.44	1.00	0.580					
								40	1.70	1.80	2.26	0.950	0.580					
								30	1.70	1.80	2.26	0.880	0.520					
								25	1.70	1.80	2.26	0.860	0.520					
								20	1.60	1.80	2.09	0.830	0.520					
								15	1.60	1.70	2.09	0.770	0.520					
								10	1.50	1.70	2.09	0.720	0.460					
								9	1.50	1.70	2.09	0.720	0.460					
								8	1.50	1.70	2.09	0.700	0.460					
								7	1.50	1.70	2.09	0.680	0.460					
								6	1.10	1.70	2.09	0.650	0.450					
								5	1.00	1.60	2.09	0.640	0.450					
								4	1.00	1.60	2.09	0.600	0.450					
								3	1.00	1.60	1.93	0.600	0.400					
								2	1.00	1.60	1.93	0.550	0.400					
								1	1.00	1.60	1.93	0.520	0.370					
								0	1.00	1.50	1.77	0.370	0.370					
Extremwerte	Niedrigwasser		Hochwasser															
	m ³ /s		Datum		m ³ /s		Datum											
	l/(skm ²)				l/(skm ²)		cm											
	1	0.370	1.35	04.10.1991	92.8	337	04.06.1981											
	2	0.380	1.38	21.10.1976	69.7	253	02.06.1961											
	3	0.400	1.45	26.11.1959	52.4	191	09.06.1984											
	4	0.460	1.67	09.09.1974	50.5	184	30.12.1986											
	5	0.470	1.71	31.10.1980	50.1	182	19.12.1988											
	6	0.510	1.85	02.09.1964	46.6	169	02.01.1987											
	7	0.520	1.89	10.05.1993	42.4	154	19.06.1969											
8	0.550	2.00	30.08.1990	41.0	149	20.04.1983												
9	0.550	2.00	10.10.1979	40.2	146	18.06.1986												
10	0.580	2.11	07.10.1997	39.2	143	04.12.1981												

(*) Abflussjahr: 1.11. des Vorjahres bis 31.10.