

Berechnung der Wasserspiegellage

Nr.	Station km	DN mm	K	Abfluss Q m3/s	Spiegel mN	PROUDE m	Energie mN	Je o/oo	Qmi m3/s	vmi m/s	Ai m2	Agas m2	Ri m	To N/m2	Abfluss- Art	
1	000.014964F	L R	10	23.00	454.56	3.67	0.172	454.61	1.008	0.031	0.07	0.42	24.9	0.11	1.116	S=Normtiefe
			20							22.959	0.94	24.41		1.80	17.815	
			10							0.010	0.09	0.11		0.16	1.578	
2	000.024529F	R	20	23.00	454.52	1.79	0.429	454.67	5.809	22.995	1.74	13.22	13.3	1.22	69.382	Senkungskurve
			10							0.005	0.13	0.04		0.07	4.198	
3	000.062109F		20	23.00	454.74	2.08	0.328	454.84	3.055	23.000	1.39	16.57	16.6	1.41	42.124	Str'men
4	000.074633F		20	23.00	454.77	2.22	0.350	454.88	3.599	23.000	1.48	15.52	15.5	1.37	48.447	Str'men
5	000.075633F	B	40	23.00	454.77	2.22	0.348	454.88	1.886	23.000	1.48	15.54	15.5	0.79	14.535	Str'men
6	000.077633F	B	40	23.00	454.78	2.23	0.347	454.89	1.872	23.000	1.48	15.58	15.6	0.79	14.456	Str'men
7	000.078633F		20	23.00	454.78	2.23	0.346	454.89	3.537	23.000	1.47	15.61	15.6	1.38	47.812	Str'men
8	000.084563F		20	23.00	454.72	1.48	0.576	454.95	10.247	23.000	2.13	10.79	10.8	1.08	108.468	Senkungskurve
9	000.085563F	B	40	23.00	454.74	1.50	0.569	454.96	5.366	23.000	2.11	10.89	10.9	0.61	32.177	Str'men
10	000.110388F	B	40	23.00	454.76	1.43	0.853	455.22	12.526	23.000	3.01	7.64	7.6	0.55	67.649	M1 Staukurve
11	000.111388F		20	23.00	454.89	1.56	0.702	455.24	15.770	23.000	2.61	8.81	8.8	1.06	163.702	A2 Str'men
12	000.132341F		20	23.00	455.37	1.71	0.284	455.43	1.955	23.000	1.08	21.25	21.3	1.35	25.942	M1 Staukurve
13	000.140394F	R	20	23.00	453.95	0.30	4.980	457.61	957.377	22.997	8.38	2.75	2.7	0.28	2627.571	S3 Schiessen
			10							0.003	0.64	0.00		0.02	157.387	
14	000.142807F		20	23.00	458.47	0.84	1.051	458.88	31.888	23.000	2.85	8.06	8.1	0.71	223.346	S3 Schiessen
15	000.153272F		20	21.00	458.96	1.30	0.379	459.05	3.938	21.000	1.32	15.87	15.9	1.08	41.771	M1 Staukurve
16	000.169145F	L R	10	21.00	459.08	1.27	0.270	459.11	3.385	13.654	0.51	26.97	33.8	0.81	26.925	M1 Staukurve
			20							7.340	1.07	6.83		0.89	29.458	
			10							0.006	0.13	0.05		0.10	3.420	
17	000.203534F	R	20	21.00	458.69	1.47	1.784	460.01	106.228	20.473	5.16	3.97	4.5	0.70	733.766	S3 Schiessen
			10							0.527	1.04	0.51		0.18	187.661	
18	000.207485F	R	20	21.00	459.76	1.51	1.000	460.22	26.052	20.340	3.03	6.71	8.0	0.91	232.563	G0 Grenztiefe
			10							0.660	0.51	1.29		0.18	45.756	
19	000.208485F	B	40	21.00	459.78	1.53	1.000	460.23	12.210	6.515	0.93	6.99	7.0	0.56	67.034	A2 Str'men
20	000.245924F	B S	40	21.00	460.22	1.58	1.000	460.24	16.506	6.515	1.41	4.61	4.6	0.42	67.293	M2 Senkungskurve
			60							14.485	3.94	3.68		0.14	23.325	
21	000.246924F	L R	10	21.00	460.74	2.10	0.419	460.81	4.445	5.020	0.51	9.92	23.9	0.66	28.815	Str'men
			20							13.290	1.43	9.30		1.11	48.341	
			10							2.690	0.57	4.72		0.79	34.432	
22	000.282540F	L R	10	21.00	460.90	1.84	0.632	461.03	7.320	4.391	0.49	9.01	18.5	0.43	30.842	M1 Staukurve
			20							16.594	1.77	9.36		1.06	75.712	
			10							0.015	0.11	0.13		0.05	3.267	
23	000.294113F	L	10	21.00	460.89	1.56	1.000	461.28	23.308	1.816	0.61	2.99	9.7	0.25	57.394	G0 Grenztiefe
			20							19.184	2.88	6.67		0.91	208.801	
24	000.295113F	B	40	21.00	460.70	1.37	1.000	461.37	20.148	21.000	3.61	5.81	5.8	0.51	100.294	S2 Grenztiefe
25	000.301298F	B	40	21.00	460.84	1.52	0.000	461.49	18.694	21.000	3.55	5.91	5.9	0.52	95.955	A2 Str'men
26	000.302298F	L R	10	21.00	461.42	2.10	0.419	461.50	4.774	7.270	0.59	12.39	22.1	0.78	36.622	Str'men
			20							13.699	1.46	9.40		1.08	50.695	
			10							0.032	0.11	0.30		0.06	2.891	
27	000.314276F	L R	10	21.00	461.41	2.13	0.568	461.61	8.237	0.711	0.50	1.41	12.0	0.41	33.350	Str'men
			20							20.147	2.01	10.03		1.16	93.960	
			10							0.143	0.26	0.55		0.15	12.401	
28	000.331956F	L R	10	21.00	461.61	2.28	0.566	461.74	6.814	4.653	0.58	8.09	18.0	0.58	38.871	M1 Staukurve
			20							16.071	1.78	9.05		1.12	74.522	
			10							0.276	0.30	0.91		0.22	14.891	
29	000.369272F	R	20	21.00	461.85	2.39	0.680	462.12	12.103	19.753	2.35	8.40	10.8	1.11	131.161	M1 Staukurve
			10							1.247	0.51	2.44		0.32	37.680	
30	000.405815F	R	20	21.00	462.32	1.93	0.361	462.42	4.165	17.352	1.48	11.70	16.9	1.23	50.312	M1 Staukurve
			10							3.648	0.70	5.24		1.12	45.801	
31	000.428332F		20	21.00	462.37	1.64	0.543	462.61	10.572	21.000	2.16	9.73	9.7	1.08	111.490	M1 Staukurve
33	000.429332F	B	40	21.00	462.39	1.66	0.536	462.62	5.107	21.000	2.14	9.80	9.8	0.65	32.496	A2 Str'men
32	000.431332F	B	40	21.00	462.40	1.67	0.529	462.63	4.967	21.000	2.12	9.89	9.9	0.65	31.832	A2 Str'men
34	000.432332F		20	21.00	462.41	1.68	0.523	462.64	9.889	21.000	2.11	9.96	10.0	1.09	105.863	A2 Str'men
35	000.461214F	R	20	21.00	462.74	1.93	0.453	462.86	5.664	17.048	1.67	10.18	16.4	1.17	65.166	M1 Staukurve
			10							3.952	0.64	6.17		0.78	43.550	

Berechnung der Wasserspiegellage

Nr.	Station km	DN mm	K	Abfluss Q m3/s	Spiegel mN	FROUDE	Energie mN	Je o/oo	Qmi m3/s	vmi m/s	Ai m2	Agas m2	Ri m	To N/m2	Abfluss- Art
1	000.014964F	20	23.00	453.50	2.61	0.272	453.59	2.571	23.000	1.33	17.32	17.3	1.50	37.749S=Wsp=453,50	
2	000.024529F	20	23.00	453.78	1.05	1.000	454.26	32.349	23.000	3.09	7.45	7.4	0.80	252.253G0 Grenztiefe	
3	000.062109F	20	23.00	454.83	2.17	0.305	454.92	2.650	23.000	1.32	17.40	17.4	1.45	37.785A2 Str"men	
4	000.077633F	20	23.00	454.87	2.32	0.323	454.97	3.103	23.000	1.41	16.33	16.3	1.42	43.234A2 Str"men	
5	000.085560F	20	23.00	454.83	1.59	0.517	455.03	8.247	23.000	1.98	11.62	11.6	1.14	91.990M2 Senkungskurve	
6	000.110388F	20	23.00	455.00	1.67	0.633	455.30	12.807	23.000	2.43	9.48	9.5	1.11	139.370M1 Staukurve	
7	000.132341F	20	23.00	455.39	0.74	1.565	456.18	73.545	23.000	3.92	5.86	5.9	0.62	443.406S3 Schiessen	
8	000.140394F	20	23.00	456.30	1.16	1.218	456.88	41.980	23.000	3.36	6.85	6.9	0.74	304.893S3 Schiessen	
9	000.142807F	40	23.00	456.44	1.16	1.245	457.16	40.073	0.534	2.51	0.21	6.2	0.18	68.780S3 Schiessen	
9	000.142807F	20	23.00	456.44	1.16	1.245	457.16	40.073	22.466	3.76	5.97	6.2	0.91	357.760S3 Schiessen	
10	000.153272F	20	21.00	457.39	1.38	1.000	457.85	28.121	21.000	2.88	7.29	7.3	0.80	219.485G0 Grenztiefe	
11	000.160230F	20	21.00	457.70	1.44	0.609	457.95	11.311	21.000	2.19	9.58	9.6	1.05	115.979M2 Senkungskurve	
12	000.161230F B	40	21.00	457.10	0.80	1.536	458.00	43.725	21.000	4.17	5.04	5.0	0.35	150.908S3 Schiessen	
13	000.165730F B	40	21.00	457.87	1.05	1.000	458.36	17.637	21.000	3.10	6.78	6.8	0.44	76.893G0 Grenztiefe	
14	000.166730F	20	21.00	457.98	1.12	0.889	458.38	24.116	21.000	2.82	7.45	7.4	0.86	204.445S1 überstaut	
5	000.169430F R	20 10	21.00	458.02	1.18	1.000	458.46	25.330	20.990 0.010	2.81 0.32	7.46 0.03	7.5	0.83 0.09	206.236S2 21.867 Grenztiefe	
16	000.203534F	20	21.00	459.15	1.55	1.000	459.65	25.449	19.995	3.16	6.34	6.7	0.98	245.298M1 Staukurve	
16	000.203534F	40	21.00	459.15	1.55	1.000	459.65	25.449	1.005	2.50	0.40	6.7	0.25	61.229M1 Staukurve	
17	000.208485F	20	21.00	459.35	1.70	1.000	459.80	20.710	20.083	3.02	6.64	8.0	1.08	218.446M1 Staukurve	
17	000.208485F R	40 10	21.00	459.35	1.70	1.000	459.80	20.710	0.001 0.916	0.12 0.66	0.00 1.38	8.0	0.00 0.31	0.597M1 63.393 Staukurve	
18	000.221120F	40	21.00	459.82	2.01	0.381	459.94	2.613	0.716	0.99	0.72	13.5	0.34	8.666M1 Staukurve	
18	000.221120F	20	21.00	459.82	2.01	0.381	459.94	2.613	19.568	1.63	12.03	13.5	2.01	51.371M1 Staukurve	
18	000.221120F	40	21.00	459.82	2.01	0.381	459.94	2.613	0.716	0.99	0.72	13.5	0.34	8.666M1 Staukurve	
19	000.222120F B	40	21.00	459.83	1.99	0.368	459.95	2.136	21.000	1.53	13.70	13.7	0.76	15.809M2 Senkungskurve	
20	000.226620F B	40	21.00	459.83	1.91	0.389	459.96	2.378	21.000	1.58	13.27	13.3	0.73	17.034M1 Staukurve	
21	000.227620F	40	21.00	459.80	1.79	0.450	459.96	3.802	0.719	1.16	0.62	12.0	0.32	12.027M2 Senkungskurve	
21	000.227620F	20	21.00	459.80	1.79	0.450	459.96	3.802	19.561	1.82	10.75	12.0	1.79	66.783M2 Senkungskurve	
21	000.227620F	40	21.00	459.80	1.79	0.450	459.96	3.802	0.719	1.16	0.62	12.0	0.32	12.027M2 Senkungskurve	
22	000.245924F R	20 10	21.00	459.93	1.73	0.448	460.04	4.642	20.871 0.129	1.47 0.19	14.18 0.67	14.8	1.12 0.15	51.097M1 6.840 Staukurve	
23	000.282540F	20	21.00	460.14	1.54	0.706	460.40	13.354	21.000	2.27	9.27	9.3	0.97	127.013M1 Staukurve	
		L	10						0.000	0.02	0.01		0.01	0.246	
24	000.294113F	40	21.00	460.33	1.61	0.511	460.51	4.859	1.281	1.58	0.81	11.3	0.43	20.343M1 Staukurve	
4	000.294113F	20	21.00	460.33	1.61	0.511	460.51	4.859	18.506	1.92	9.66	11.3	1.61	76.696M1 Staukurve	
4	000.294113F	40	21.00	460.33	1.61	0.511	460.51	4.859	1.213	1.55	0.78	11.3	0.42	19.788M1 Staukurve	
25	000.295113F B	40	21.00	460.32	1.58	0.526	460.52	4.525	21.000	1.97	10.66	10.7	0.63	27.802M2 Senkungskurve	
26	000.301298F B	40	21.00	460.33	1.52	0.555	460.55	5.087	21.000	2.05	10.25	10.2	0.61	30.365M1 Staukurve	
		L	10						0.004	0.09	0.05		0.04	2.501	
27	000.302298F	40	21.00	460.33	1.51	0.589	460.55	6.782	0.727	1.48	0.49	10.1	0.30	19.952M1 Staukurve	
27	000.302298F	20	21.00	460.33	1.51	0.589	460.55	6.782	19.541	2.16	9.03	10.1	1.51	100.076M1 Staukurve	
27	000.302298F	40	21.00	460.33	1.51	0.589	460.55	6.782	0.727	1.48	0.49	10.1	0.30	19.952M1 Staukurve	
28	000.314276F	20	21.00	460.36	1.41	0.895	460.75	22.533	21.000	2.78	7.55	7.5	0.89	197.093M1 Staukurve	
29	000.331956F	20	21.00	460.87	1.73	0.456	461.00	5.388	21.000	1.61	13.08	13.1	1.14	60.387M0 Str"men	
30	000.369272F	20	21.00	461.17	1.71	0.829	461.57	21.412	21.000	2.81	7.47	7.5	0.94	197.469M1 Staukurve	
31	000.405815F R	20 10	21.00	461.94	1.94	0.362	462.02	3.190	19.391 1.609	1.31 0.46	14.81 3.47	18.3	1.25 0.74	39.033M0 23.248 Str"men	
32	000.428332F	40	21.00	461.95	1.22	0.855	462.39	16.971	0.019	0.53	0.04	7.2	0.03	5.327S1 überstaut	
32	000.428332F	20	21.00	461.95	1.22	0.855	462.39	16.971	20.967	2.95	7.10	7.2	1.21	200.902S1 überstaut	
32	000.428332F	40	21.00	461.95	1.22	0.855	462.39	16.971	0.014	0.46	0.03	7.2	0.03	4.301S1 überstaut	
33	000.429332F B	40	21.00	462.02	1.29	0.782	462.41	11.184	21.000	2.77	7.58	7.6	0.53	58.060A2 Str"men	
34	000.431332F B	40	21.00	462.07	1.34	0.734	462.43	9.797	21.000	2.65	7.92	7.9	0.55	52.663A2 Str"men	
35	000.432332F	40	21.00	462.09	1.36	0.725	462.44	11.747	0.022	0.47	0.05	8.0	0.04	4.140A2 Str"men	
35	000.432332F	20	21.00	462.09	1.36	0.725	462.44	11.747	20.963	2.65	7.92	8.0	1.35	155.268A2 Str"men	
35	000.432332F	40	21.00	462.09	1.36	0.725	462.44	11.747	0.015	0.41	0.04	8.0	0.03	3.340A2 Str"men	
36	000.461214F R	20 10	21.00	462.57	1.86	0.509	462.70	6.088	18.274 2.726	1.69 0.56	10.82 4.84	15.7	1.13 0.61	67.211A2 36.656 Str"men	