A_{Eo} : 19.5 km²
PNP :NN + 678.60 m
Lage: 1.4 km

Q
m³/s

Pegel : Bad Tölz Nr. 16391004
Gewässer : Ellbach
Gebiet : Isar

Tageswerte

Tag	2005 Nov	2005 Dez	2006 Jan	Feb	Mrz	Apr	Mai	Jun	Jul	Aug	Sep	Okt	Nov	Dez
1.	0.594	0.433	0.400	0.388	0.344	1.24	0.824	0.868	0.623	0.543	0.631	0.480	0.500	0.384
2.	0.581	0.435	0.390	0.390	0.352	1.20	0.835	0.863	0.603	0.515	0.575	0.482	0.501	0.386
3.	0.531	0.462	0.404	0.372	0.376	1.08	0.742	0.766	0.603	0.607	0.551	0.532	0.486	0.381
4.	0.537	0.445	0.358	0.348	0.384	1.14	0.720	0.793	0.594	0.824	0.534	0.775	0.485	0.389
5.	0.540	0.450	0.357	0.326	0.354	0.929	0.708	0.826	0.596	0.607	0.534	0.575	0.478	0.428
6.	0.550	0.462	0.341	0.348	0.329	0.952	0.724	0.838	0.612	0.836	0.534	0.512	0.466	0.419
7.	0.558	0.456	0.339	0.384	0.343	0.910	0.719	0.730	0.609	1.52	0.539	0.494	0.456	0.480
8.	0.523	0.476	0.325	0.380	0.332	0.857	0.722	0.701	0.594	0.847	0.801	0.486	0.437	0.441
9.	0.529	0.473	0.337	0.346	0.666	0.822	0.753	0.687	0.581	0.883	0.579	0.467	0.476	0.495
10.	0.536	0.457	0.327	0.340	0.601	0.830	0.747	0.683	0.588	0.665	0.540	0.462	0.529	0.672
11.	0.530	0.448	0.362	0.341	0.429	0.874	0.740	0.663	0.580	0.630	0.618	0.466	0.459	0.567
12.	0.529	0.426	0.376	0.333	0.342	0.854	0.739	0.655	0.567	0.628	0.558	0.466	0.699	0.517
13.	0.507	0.415	0.317	0.331	0.309	0.992	0.731	0.653	0.577	0.626	0.499	0.461	0.610	0.495
14.	0.482	0.423	0.328	0.333	0.306	1.37	0.781	0.639	0.558	0.622	0.461	0.465	0.550	0.476
15.	0.470	0.400	0.318	0.332	0.377	0.975	0.717	0.634	0.551	0.601	0.446	0.457	0.517	0.469
16.	0.496	0.433	0.328	0.486	0.372	0.936	0.687	0.663	0.550	0.578	0.485	0.464	0.451	0.468
17.	0.471	0.452	0.323	0.549	0.376	0.894	0.775	0.730	0.556	0.562	0.492	0.453	0.435	0.486
18.	0.471	0.409	0.408	0.457	0.384	0.963	0.761	0.649	0.551	0.548	0.501	0.458	0.420	0.504
19.	0.472	0.458	0.372	0.403	0.383	0.874	0.815	0.629	0.548	0.546	0.540	0.461	0.414	0.480
20.	0.467	0.485	0.349	0.410	0.396	0.841	0.791	0.643	0.533	0.547	0.546	0.460	0.431	0.469
21.	0.509	0.464	0.341	0.412	0.414	0.823	0.752	0.646	0.540	0.544	0.502	0.447	0.414	0.465
22.	0.495	0.435	0.344	0.451	0.505	0.838	0.705	0.706	0.551	0.580	0.487	0.452	0.473	0.459
23.	0.479	0.444	0.312	0.407	0.578	0.850	0.714	0.681	0.540	0.556	0.489	0.447	0.438	0.454
24.	0.462	0.445	0.323	0.401	0.540	0.839	0.716	0.664	0.539	0.654	0.487	0.468	0.423	0.442
25.	0.434	0.426	0.269	0.372	0.773	0.887	0.707	0.691	0.518	0.697	0.482	0.457	0.399	0.448
26.	0.438	0.473	0.284	0.353	1.39	0.879	0.701	0.675	0.519	0.569	0.506	0.450	0.391	0.445
27.	0.418	0.427	0.266	0.341	1.20	0.802	0.714	0.683	0.524	0.578	0.510	0.442	0.384	0.439
28.	0.404	0.420	0.293	0.340	1.61	1.47	0.956	0.633	0.517	0.665	0.494	0.436	0.384	0.442
29.	0.456	0.390	0.299		1.46	1.33	0.972	0.634	0.536	0.857	0.483	0.494	0.384	0.446
30.	0.415	0.382	0.383		1.09	0.960	1.02	0.634	0.527	1.02	0.470	0.517	0.383	0.438
31.		0.366	0.389		1.66		0.933		0.540	0.908		0.471		0.435

Hauptwerte

Tag	28.	31.	27.	5.	14.	27.	16.	19.	28.	2.	15.	28.	30.	3.
NQ	0.404	0.366	0.266	0.326	0.306	0.802	0.687	0.629	0.517	0.515	0.446	0.436	0.383	0.381
MQ	0.496	0.437	0.340	0.381	0.611	0.973	0.771	0.698	0.562	0.689	0.529	0.482	0.462	0.461
HQ	0.640	0.537	0.538	0.595	2.30	2.21	1.35	1.08	0.767	1.96	1.02	0.981	0.951	0.721
Tag	1.	23.	3.	17.	31.	28.	28.	25.	4.	7.	8.	4.	12.	10.
h_N mm / h_A mm	66	60	47	47	84	129	106	93	77	94	70	66	61	63
	1934/2005		1935/2006						72 Jahre					
Jahr	1953	1953	1963	1963	1963	1972	1972	1972	1972	1972	1972	1972	1953	1953
NQ	0.230	0.230	0.200	0.170	0.190	0.245	0.233	0.267	0.240	0.258	0.247	0.246	0.230	0.230
MNQ	0.527	0.513	0.489	0.487	0.500	0.566	0.568	0.601	0.609	0.603	0.584	0.552	0.526	0.513
MQ	0.616	0.594	0.563	0.574	0.626	0.681	0.692	0.747	0.773	0.741	0.697	0.651	0.616	0.593
MHQ	1.11	1.08	0.987	1.03	1.24	1.28	1.78	1.72	2.06	1.74	1.35	1.17	1.11	1.08
HQ	5.00	3.88	2.59	3.77	2.83	2.99	19.8	5.55	11.8	7.20	3.34	2.97	5.00	3.88
Jahr	1944	1974	1974	1957	1979	1970	1940	1979	1966	1970	1940	1981	1944	1974
	1934/2005		1935/2006						72 Jahre					
Mh_N mm / Mh_A mm	82	82	77	71	86	90	95	99	106	102	92	89	82	81

		Abflussjahr (*) 2006 Jahr	Datum	Winter	Sommer	Kalenderjahr 2006 Jahr	Datum
NQ	m³/s	0.266	am 27.01.2006	0.266	0.436	0.266	am 27.01.2006
MQ	m³/s	0.582		0.541	0.622	0.581	
HQ	m³/s	2.30	am 31.03.2006 bei W= 67 cm	2.30	1.96	2.30	am 31.03.2006 bei W= 67 cm
Nq	l/(s km²)	13.6		13.6	22.3	13.6	
Mq	l/(s km²)	29.8		27.7	31.9	29.8	
Hq	l/(s km²)	118		118	100	118	
h_N mm / h_A mm		941		441	498	941	
		1935/2006 (*) 72 Jahre				1935/2006	
NQ	m³/s	0.170	am 09.02.1963	0.170	0.233	0.170	am 09.02.1963
MNQ	m³/s	0.402		0.435	0.471	0.392	
MQ	m³/s	0.663		0.609	0.717	0.663	
MHQ	m³/s	3.46		1.85	3.28	3.41	
HQ	m³/s	19.8	am 30.05.1940	5.00	19.8	19.8	am 30.05.1940
HQ_1	m³/s	2.38		1.63	2.20	2.38	
HQ_5	m³/s						
MNq	l/(s km²)	20.6		22.3	24.1	20.1	
Mq	l/(s km²)	34.0		31.2	36.8	34.0	
MHq	l/(s km²)	177		94.6	168	175	
		1935/2006 (*) 72 Jahre				1935/2006	
Mh_N mm / Mh_A mm		1072		496	575	1072	

Extremwerte

	Niedrigwasser m³/s	l/(s km²)	Datum	Hochwasser m³/s	l/(s km²)	cm	Datum
1	0.170	8.71	09.02.1963	19.8	1010		30.05.1940
2				11.8	605		23.07.1966
3				11.6	594		09.07.1954
4				9.23	473		07.07.1946
5				9.10	466		21.05.1999
6				7.20	369		10.08.1970
7				6.17	316		23.08.2005
8				5.55	284		18.06.1979
9				5.43	278		11.06.1965
10				5.34	274		18.08.1974

Dauertabelle

Unterschreitungsdauer in Tagen	Unterschrittene Abflüsse m³/s: Abflussjahr (*) 2006	Kalenderjahr 2006	1935/2006 72 Kalenderjahre: Obere Hüllwerte	Mittlere Werte	Untere Hüllwerte
(365)					
364	1.66	1.66	8.44	1.85	1.07
363	1.61	1.61	4.90	1.64	0.872
362	1.52	1.52	4.64	1.51	0.868
361	1.47	1.47	3.09	1.43	0.781
360	1.46	1.46	2.54	1.40	0.738
359	1.39	1.39	2.07	1.34	0.735
358	1.37	1.37	2.07	1.31	0.660
357	1.33	1.33	2.07	1.31	0.631
356	1.24	1.24	2.07	1.27	0.626
350	1.02	1.02	1.66	1.16	0.575
340	0.933	0.933	1.50	1.06	0.514
330	0.868	0.868	1.40	1.01	0.495
320	0.839	0.839	1.34	0.921	0.476
300	0.753	0.753	1.30	0.847	0.432
270	0.675	0.681	1.25	0.770	0.373
240	0.607	0.609	1.20	0.707	0.348
210	0.556	0.556	1.10	0.661	0.330
183	0.533	0.529	1.01	0.611	0.318
150	0.487	0.486	1.01	0.571	0.308
130	0.468	0.467	1.01	0.544	0.301
120	0.462	0.460	1.01	0.531	0.297
110	0.457	0.452	1.01	0.527	0.293
100	0.448	0.445	1.01	0.507	0.289
90	0.434	0.431	0.960	0.492	0.285
80	0.418	0.410	0.960	0.480	0.282
70	0.403	0.391	0.921	0.471	0.279
60	0.388	0.386	0.921	0.451	0.260
50	0.377	0.377	0.921	0.431	0.201
40	0.353	0.353	0.920	0.411	0.201
30	0.342	0.342	0.920	0.393	0.201
25	0.341	0.341	0.920	0.379	0.201
20	0.333	0.333	0.920	0.361	0.201
15	0.329	0.329	0.920	0.351	0.201
10	0.325	0.325	0.920	0.321	0.201
9	0.318	0.318	0.920	0.312	0.201
8	0.317	0.317	0.920	0.302	0.200
7	0.312	0.312	0.920	0.301	0.200
6	0.309	0.309	0.920	0.301	0.200
5	0.306	0.306	0.920	0.283	0.200
4	0.299	0.299	0.920	0.281	0.200
3	0.293	0.293	0.920	0.271	0.200
2	0.284	0.284	0.920	0.261	0.200
1	0.269	0.269	0.920	0.234	0.200
0	0.266	0.266	0.830	0.170	0.170

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

Vor 1963 nach Lattenpegelbeobachtungen

Bayer. Landesamt für Umwelt

A_{Eo} : 19.5 km²
PNP :NN + 678.60 m
Lage: 1.4 km

Q
m³/s

Pegel : Bad Tölz Nr. 16391004
Gewässer : Ellbach
Gebiet : Isar

Tageswerte

Tag	2004 Nov	2004 Dez	2005 Jan	Feb	Mrz	Apr	Mai	Jun	Jul	Aug	Sep	Okt	Nov	Dez
1.	0.505	0.403	0.318	0.272	0.317	0.700	0.522	0.673	0.592	0.530	0.872	0.727	0.594	0.433
2.	0.471	0.417	0.386	0.284	0.328	0.592	0.573	0.656	0.567	0.530	0.840	1.03	0.581	0.435
3.	0.461	0.451	0.466	0.247	0.342	0.555	0.615	0.644	0.570	0.584	0.808	1.06	0.531	0.462
4.	0.456	0.432	0.428	0.245	0.347	0.624	0.635	0.642	0.549	0.585	0.797	0.812	0.537	0.445
5.	0.488	0.414	0.378	0.240	0.347	0.590	0.701	0.648	0.657	0.553	0.783	0.726	0.540	0.450
6.	0.501	0.397	0.549	0.251	0.338	0.580	0.925	0.726	0.566	0.646	0.756	0.700	0.550	0.462
7.	0.550	0.409	0.530	0.253	0.356	0.571	0.876	0.869	0.551	0.901	0.737	0.705	0.558	0.456
8.	0.584	0.424	0.385	0.261	0.356	0.581	0.859	0.720	0.544	0.859	0.761	0.671	0.523	0.476
9.	0.482	0.432	0.347	0.262	0.353	0.649	0.915	0.672	0.476	0.689	0.771	0.629	0.529	0.473
10.	0.456	0.389	0.378	0.270	0.348	0.746	0.791	0.643	0.735	0.585	0.745	0.586	0.536	0.457
11.	0.450	0.394	0.371	0.318	0.358	0.728	0.756	0.611	1.35	0.585	0.757	0.569	0.530	0.448
12.	0.439	0.396	0.348	0.627	0.355	0.654	0.754	0.612	0.997	0.552	0.819	0.572	0.529	0.426
13.	0.492	0.370	0.448	0.862	0.380	0.612	0.715	0.663	0.720	0.536	0.718	0.565	0.507	0.415
14.	0.467	0.359	0.450	0.473	0.370	0.627	0.687	0.670	0.568	0.514	0.682	0.587	0.482	0.423
15.	0.438	0.336	0.399	0.391	0.383	0.592	0.661	0.751	0.524	0.602	0.677	0.603	0.470	0.400
16.	0.434	0.329	0.363	0.371	0.454	0.595	0.742	0.722	0.455	1.29	0.685	0.594	0.496	0.433
17.	0.445	0.342	0.362	0.346	0.571	0.566	0.880	0.661	0.492	0.807	0.733	0.592	0.471	0.452
18.	0.471	0.380	0.355	0.343	0.759	0.778	1.52	0.647	0.676	0.662	0.725	0.571	0.471	0.409
19.	0.448	0.407	0.394	0.326	0.980	0.947	1.08	0.621	0.900	0.619	0.725	0.567	0.472	0.458
20.	0.447	0.391	0.409	0.330	1.01	1.18	0.763	0.598	0.562	1.20	0.693	0.594	0.467	0.485
21.	0.439	0.404	0.450	0.370	0.911	0.986	0.699	0.623	0.599	0.830	0.682	0.591	0.509	0.464
22.	0.512	0.344	0.363	0.379	0.823	0.675	0.682	0.568	0.496	1.28	0.676	0.567	0.495	0.435
23.	0.530	0.366	0.336	0.369	0.896	0.589	0.694	0.582	0.502	4.12	0.660	0.597	0.479	0.444
24.	0.622	0.392	0.328	0.357	0.971	0.581	0.758	0.529	0.517	1.83	0.644	0.602	0.462	0.445
25.	0.512	0.389	0.305	0.346	1.07	0.744	0.678	0.558	0.665	0.890	0.631	0.619	0.434	0.426
26.	0.474	0.350	0.343	0.352	0.847	0.992	0.662	0.543	0.799	0.819	0.674	0.601	0.438	0.473
27.	0.470	0.337	0.300	0.356	0.687	0.739	0.607	0.573	0.667	0.833	0.722	0.577	0.418	0.427
28.	0.449	0.319	0.290	0.329	0.664	0.761	0.613	0.575	0.631	0.828	0.685	0.551	0.404	0.420
29.	0.438	0.302	0.279		0.657	0.562	0.618	0.524	0.573	0.871	0.778	0.561	0.456	0.390
30.	0.390	0.293	0.273		0.721	0.531	0.685	0.538	0.559	0.883	0.765	0.572	0.415	0.382
31.		0.301	0.270		0.909		0.726		0.556	0.863		0.560		0.366

Hauptwerte

Tag	30.	30.	31.	5.	1.	30.	1.	29.	16.	14.	25.	28.	28.	31.
NQ	0.390	0.293	0.270	0.240	0.317	0.531	0.522	0.524	0.455	0.514	0.631	0.551	0.404	0.366
MQ	0.477	0.376	0.374	0.351	0.587	0.687	0.754	0.635	0.632	0.898	0.733	0.640	0.496	0.437
HQ	0.829	0.564	0.777	1.13	1.33	1.28	2.29	1.02	1.62	6.17	1.17	1.38	0.640	0.537
Tag	27.	20.	6.	13.	25.	20.	18.	7.	11.	23.	12.	3.	1.	23.
h_N mm / h_A mm	63	52	51	44	80	91	104	84	87	123	97	88	66	60
	1934/2004		1935/2005 71 Jahre											
Jahr	1953	1953	1963	1963	1963	1972	1972	1972	1972	1972	1972	1972	1953	1953
NQ	0.230	0.230	0.200	0.170	0.190	0.245	0.233	0.267	0.240	0.258	0.247	0.246	0.230	0.230
MNQ	0.529	0.515	0.492	0.489	0.503	0.562	0.566	0.601	0.611	0.605	0.586	0.554	0.528	0.514
MQ	0.618	0.596	0.566	0.577	0.627	0.677	0.691	0.748	0.776	0.742	0.699	0.653	0.618	0.595
MHQ	1.11	1.09	0.993	1.04	1.23	1.27	1.79	1.72	2.08	1.74	1.36	1.17	1.12	1.09
HQ	5.00	3.88	2.59	3.77	2.83	2.99	19.8	5.55	11.8	7.20	3.34	2.97	5.00	3.88
Jahr	1944	1974	1974	1957	1979	1970	1940	1979	1966	1970	1940	1981	1944	1974
	1934/2004		1935/2005 71 Jahre											
Mh_N mm / Mh_A mm	82	82	78	72	86	90	95	99	106	102	93	90	82	82

		Abflussjahr (*) 2005 Jahr	Datum	Winter	Sommer	Kalenderjahr 2005 Jahr	Datum
NQ	m³/s	0.240	am 05.02.2005	0.240	0.455	0.240	am 05.02.2005
MQ	m³/s	0.597		0.477	0.716	0.604	
HQ	m³/s	6.17	am 23.08.2005 bei W= 103 cm	1.33	6.17	6.17	am 23.08.2005 bei W= 103 cm
Nq	l/(s km²)	12.3		12.3	23.3	12.3	
Mq	l/(s km²)	30.6		24.4	36.7	31.0	
Hq	l/(s km²)	316		68.1	316	316	
h_N mm / h_A mm		968		389	574	965	
		1935/2005 (*) 71 Jahre				1935/2005	
NQ	m³/s	0.170	am 09.02.1963	0.170	0.233	0.170	am 09.02.1963
MNQ	m³/s	0.404		0.437	0.471	0.394	
MQ	m³/s	0.665		0.610	0.718	0.664	
MHQ	m³/s	3.47		1.84	3.30	3.43	
HQ	m³/s	19.8	am 30.05.1940	5.00	19.8	19.8	am 30.05.1940
HQ_1	m³/s	2.38		1.61	2.21	2.38	
HQ_5	m³/s						
MNq	l/(s km²)	20.7		22.4	24.1	20.2	
Mq	l/(s km²)	34.1		31.3	36.8	34.0	
MHq	l/(s km²)	178		94.3	169	176	
		1935/2005 (*) 71 Jahre				1935/2005	
Mh_N mm / Mh_A mm		1078		500	576	1073	

Dauertabelle

Unterschreitungsdauer in Tagen	Abflussjahr (*) 2005	Kalenderjahr 2005	1935/2005 71 Kalenderjahre Obere Hüllwerte	Mittlere Werte	Untere Hüllwerte
	Unterschrittene Abflüsse m³/s				
(365)					
364	4.12	4.12	8.44	1.85	1.07
363	1.83	1.83	4.90	1.64	0.872
362	1.52	1.52	4.64	1.51	0.868
361	1.35	1.35	3.09	1.43	0.781
360	1.29	1.29	2.54	1.40	0.738
359	1.28	1.28	2.07	1.34	0.735
358	1.20	1.20	2.07	1.31	0.660
357	1.18	1.18	2.07	1.31	0.631
356	1.08	1.08	2.07	1.27	0.626
350	0.992	0.992	1.66	1.16	0.575
340	0.900	0.900	1.50	1.06	0.514
330	0.862	0.862	1.40	1.01	0.495
320	0.823	0.823	1.34	0.921	0.476
300	0.754	0.754	1.30	0.850	0.432
270	0.693	0.693	1.25	0.771	0.373
240	0.660	0.660	1.20	0.709	0.348
210	0.603	0.603	1.10	0.661	0.330
183	0.580	0.580	1.01	0.614	0.318
150	0.550	0.552	1.01	0.571	0.308
130	0.505	0.529	1.01	0.547	0.301
120	0.473	0.502	1.01	0.531	0.297
110	0.454	0.476	1.01	0.530	0.293
100	0.445	0.464	1.01	0.509	0.289
90	0.414	0.452	0.960	0.494	0.285
80	0.396	0.434	0.960	0.481	0.282
70	0.383	0.418	0.921	0.471	0.279
60	0.369	0.385	0.921	0.451	0.260
50	0.357	0.371	0.921	0.431	0.201
40	0.348	0.357	0.920	0.411	0.201
30	0.337	0.347	0.920	0.397	0.201
25	0.329	0.338	0.920	0.381	0.201
20	0.319	0.329	0.920	0.362	0.201
15	0.300	0.305	0.920	0.351	0.201
10	0.273	0.273	0.920	0.321	0.201
9	0.272	0.272	0.920	0.312	0.201
8	0.272	0.272	0.920	0.301	0.200
7	0.272	0.272	0.920	0.301	0.200
6	0.262	0.262	0.920	0.301	0.200
5	0.261	0.261	0.920	0.283	0.200
4	0.253	0.253	0.920	0.281	0.200
3	0.251	0.251	0.920	0.270	0.200
2	0.247	0.247	0.920	0.261	0.200
1	0.245	0.245	0.920	0.234	0.200
0	0.240	0.240	0.830	0.170	0.170

Extremwerte

	Niedrigwasser m³/s	l/(s km²)	Datum	Hochwasser m³/s	l/(s km²)	cm	Datum
1	0.170	8.71	09.02.1963	19.8	1010		30.05.1940
2				11.8	605		23.07.1966
3				11.6	594		09.07.1954
4				9.23	473		07.07.1946
5				9.10	466		21.05.1999
6				7.20	369		10.08.1970
7				6.17	316		23.08.2005
8				5.55	284		18.06.1979
9				5.43	278		11.06.1965
10				5.34	274		18.08.1974

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

Vor 1963 nach Lattenpegelbeobachtungen

Bayer. Landesamt für Umwelt

A_{Eo} : 19.5 km²
PNP :NN + 678.60 m
Lage: 1.4 km

Q
m³/s

Pegel : Bad Tölz Nr. 16391004
Gewässer : Ellbach
Gebiet : Isar

Tageswerte

Tag	2003 Nov	2003 Dez	2004 Jan	Feb	Mrz	Apr	Mai	Jun	Jul	Aug	Sep	Okt	Nov	Dez
1.	0.337	0.397	0.349	0.410	0.380	0.794	0.428	0.400	0.548	0.564	0.491	0.669	0.505	0.403
2.	0.343	0.374	0.347	0.396	0.376	0.680	0.633	0.448	0.563	0.595	0.477	0.687	0.471	0.417
3.	0.346	0.336	0.347	0.450	0.374	0.567	0.447	1.01	0.581	0.593	0.498	0.554	0.461	0.451
4.	0.317	0.316	0.343	0.444	0.367	0.527	0.356	1.28	0.549	0.590	0.502	0.522	0.456	0.432
5.	0.328	0.292	0.338	0.399	0.377	0.616	0.332	0.721	0.478	0.562	0.468	0.496	0.488	0.414
6.	0.316	0.293	0.341	0.376	0.363	0.587	0.433	0.760	0.526	0.524	0.467	0.563	0.501	0.397
7.	0.355	0.355	0.423	0.507	0.366	0.605	0.461	0.529	0.501	0.497	0.444	0.564	0.550	0.409
8.	0.368	0.371	0.426	0.546	0.373	0.612	0.433	0.523	0.475	0.519	0.467	0.480	0.584	0.424
9.	0.360	0.365	0.425	0.468	0.374	0.586	0.426	0.436	0.626	0.528	0.459	0.640	0.482	0.432
10.	0.379	0.358	0.565	0.455	0.362	0.555	0.409	0.467	0.599	0.532	0.497	0.778	0.456	0.389
11.	0.351	0.341	0.441	0.460	0.361	0.568	0.389	0.482	0.572	0.548	0.479	0.610	0.450	0.394
12.	0.350	0.335	0.674	0.424	0.372	0.555	0.415	0.543	0.554	0.574	0.461	0.513	0.439	0.396
13.	0.421	0.344	0.924	0.442	0.388	0.544	0.572	0.654	0.615	0.534	0.486	0.485	0.492	0.370
14.	0.453	0.389	0.812	0.467	0.438	0.606	0.492	0.629	0.585	0.540	0.515	0.471	0.467	0.359
15.	0.387	0.420	0.461	0.476	0.494	0.528	0.426	0.519	0.594	0.579	0.505	0.468	0.438	0.336
16.	0.358	0.409	0.397	0.455	0.563	0.513	0.653	0.574	0.554	0.581	0.467	0.530	0.434	0.329
17.	0.386	0.395	0.391	0.472	0.590	0.491	0.516	0.534	0.543	0.547	0.431	0.523	0.445	0.342
18.	0.367	0.353	0.383	0.433	0.589	0.487	0.417	0.620	0.621	0.493	0.451	0.450	0.471	0.380
19.	0.366	0.335	0.363	0.421	0.589	0.558	0.413	0.699	0.602	0.535	0.436	0.444	0.448	0.407
20.	0.354	0.335	0.445	0.397	0.584	0.496	0.403	0.691	0.571	0.615	0.414	0.428	0.447	0.391
21.	0.342	0.359	0.447	0.374	0.560	0.455	0.446	0.656	0.550	0.656	0.388	0.445	0.439	0.404
22.	0.359	0.342	0.392	0.398	0.535	0.458	0.521	0.566	0.570	0.616	0.378	0.449	0.512	0.344
23.	0.353	0.358	0.380	0.477	0.531	0.504	0.473	0.559	0.549	0.549	0.471	0.436	0.530	0.366
24.	0.461	0.326	0.351	0.405	0.588	0.721	0.368	0.559	1.30	0.537	0.835	0.443	0.622	0.392
25.	0.399	0.295	0.365	0.371	0.579	0.540	0.341	0.521	1.03	0.526	0.743	0.440	0.512	0.389
26.	0.326	0.302	0.385	0.366	0.516	0.498	0.356	0.509	0.657	0.638	0.614	0.465	0.474	0.350
27.	0.363	0.320	0.395	0.366	0.495	0.436	0.371	0.515	0.791	0.777	0.522	0.451	0.470	0.337
28.	0.406	0.343	0.410	0.373	0.481	0.397	0.415	1.07	0.634	0.566	0.492	0.440	0.449	0.319
29.	0.479	0.354	0.397	0.369	0.483	0.401	0.398	0.710	0.544	0.537	0.526	0.437	0.438	0.302
30.	0.414	0.352	0.408		0.593	0.432	0.380	0.564	0.576	0.535	0.710	0.420	0.390	0.293
31.		0.351	0.388		0.724		0.409		0.602	0.546		0.444		0.301
Tag	6.	5.	5.	26.+	11.	28.	5.	1.	8.	18.	22.	30.	30.	30.
NQ	0.316	0.292	0.338	0.366	0.361	0.397	0.332	0.400	0.475	0.493	0.378	0.420	0.390	0.293
MQ	0.371	0.348	0.435	0.427	0.476	0.543	0.436	0.624	0.614	0.565	0.503	0.507	0.477	0.376
HQ	0.684	0.459	1.07	0.662	0.973	1.01	0.915	2.21	1.72	0.933	1.03	0.929	0.829	0.564
Tag	24.	14.	13.	7.	31.	1.	16.	4.	24.	14.	24.	10.	27.	20.
h_N mm / h_A mm	49	48	60	55	65	72	60	83	84	78	67	70	63	52
	1934/2003		1935/2004						70 Jahre					
Jahr	1953	1953	1963	1963	1963	1972	1972	1972	1972	1972	1972	1972	1953	1953
NQ	0.230	0.230	0.200	0.170	0.190	0.245	0.233	0.267	0.240	0.258	0.247	0.246	0.230	0.230
MNQ	0.531	0.519	0.495	0.492	0.505	0.563	0.567	0.602	0.613	0.606	0.586	0.554	0.529	0.517
MQ	0.620	0.599	0.569	0.580	0.627	0.677	0.690	0.750	0.778	0.740	0.698	0.653	0.620	0.598
MHQ	1.12	1.10	0.997	1.04	1.23	1.27	1.78	1.73	2.09	1.68	1.36	1.17	1.12	1.10
HQ	5.00	3.88	2.59	3.77	2.83	2.99	19.8	5.55	11.8	7.20	3.34	2.97	5.00	3.88
Jahr	1944	1974	1974	1957	1979	1970	1940	1979	1966	1970	1940	1981	1944	1974
	1934/2003		1935/2004						70 Jahre					
Mh_N mm / Mh_A mm	82	82	78	74	86	90	95	100	107	102	93	90	82	82

Hauptwerte

	Abflussjahr (*) 2004 Jahr	Datum	Winter	Sommer	Kalenderjahr 2004 Jahr	Datum
NQ m³/s	0.292	am 05.12.2003	0.292	0.332	0.293	am 30.12.2004
MQ m³/s	0.488		0.434	0.542	0.499	
HQ m³/s	2.21	am 04.06.2004 bei W= 66 cm	1.07	2.21	2.21	am 04.06.2004 bei W= 66 cm
Nq l/(s km²)	15.0		15.0	17.0	15.0	
Mq l/(s km²)	25.0		22.2	27.8	25.6	
Hq l/(s km²)	113		55.0	113	113	
h_N mm / h_A mm	789		356	434	791	
	1935/2004 (*) 70 Jahre				1935/2004	
NQ m³/s	0.170	am 09.02.1963	0.170	0.233	0.170	am 09.02.1963
MNQ m³/s	0.406		0.440	0.472	0.396	
MQ m³/s	0.666		0.612	0.718	0.665	
MHQ m³/s	3.43		1.85	3.26	3.39	
HQ m³/s	19.8	am 30.05.1940	5.00	19.8	19.8	am 30.05.1940
HQ_1 m³/s	2.38		1.63	2.20	2.38	
HQ_5 m³/s						
MNq l/(s km²)	20.8		22.6	24.2	20.3	
Mq l/(s km²)	34.1		31.4	36.8	34.1	
MHq l/(s km²)	176		94.7	167	174	
	1935/2004 (*) 70 Jahre				1935/2004	
Mh_N mm / Mh_A mm	1076		499	576	1078	

Extremwerte

	Niedrigwasser m³/s	l/(s km²)	Datum	Hochwasser m³/s	l/(s km²)	cm	Datum
1	0.170	8.71	09.02.1963	19.8	1010		30.05.1940
2				11.8	605		23.07.1966
3				11.6	594		09.07.1954
4				9.23	473		07.07.1946
5				9.10	466		21.05.1999
6				7.20	369		10.08.1970
7				5.55	284		18.06.1979
8				5.43	278		11.06.1965
9				5.34	274		18.08.1974
10				5.00	256		23.11.1944

Dauertabelle

Unterschreitungsdauer in Tagen	Unterschrittene Abflüsse m³/s: Abflussjahr (*) 2004	Kalenderjahr 2004	1935/2004 70 Kalenderjahre: Obere Hüllwerte	Mittlere Werte	Untere Hüllwerte
(365)	1.30	1.30			
364	1.28	1.28	8.44	1.85	1.07
363	1.07	1.07	4.90	1.64	0.872
362	1.03	1.03	4.64	1.51	0.868
361	1.01	1.01	3.09	1.43	0.781
360	0.924	0.924	2.54	1.40	0.738
359	0.835	0.835	2.07	1.34	0.735
358	0.812	0.812	2.07	1.31	0.660
357	0.794	0.794	2.07	1.31	0.631
356	0.791	0.791	2.07	1.27	0.626
350	0.724	0.724	1.66	1.17	0.575
340	0.657	0.657	1.50	1.06	0.514
330	0.626	0.626	1.40	1.02	0.495
320	0.606	0.610	1.34	0.921	0.476
300	0.581	0.584	1.30	0.852	0.432
270	0.550	0.555	1.25	0.771	0.373
240	0.527	0.529	1.20	0.711	0.348
210	0.494	0.502	1.10	0.661	0.330
183	0.468	0.478	1.01	0.615	0.318
150	0.442	0.455	1.01	0.571	0.308
130	0.425	0.445	1.01	0.547	0.301
120	0.415	0.439	1.01	0.531	0.297
110	0.405	0.433	1.01	0.531	0.293
100	0.398	0.425	1.01	0.509	0.289
90	0.389	0.415	0.960	0.496	0.285
80	0.379	0.404	0.960	0.481	0.282
70	0.374	0.398	0.921	0.471	0.279
60	0.367	0.392	0.921	0.451	0.260
50	0.361	0.383	0.921	0.431	0.201
40	0.356	0.376	0.920	0.411	0.201
30	0.349	0.367	0.920	0.400	0.201
25	0.344	0.365	0.920	0.381	0.201
20	0.342	0.359	0.920	0.366	0.201
15	0.336	0.349	0.920	0.351	0.201
10	0.328	0.342	0.920	0.321	0.201
9	0.328	0.342	0.920	0.313	0.201
8	0.328	0.338	0.920	0.303	0.200
7	0.320	0.337	0.920	0.301	0.200
6	0.317	0.336	0.920	0.301	0.200
5	0.317	0.332	0.920	0.284	0.200
4	0.317	0.329	0.920	0.281	0.200
3	0.302	0.319	0.920	0.271	0.200
2	0.295	0.302	0.920	0.261	0.200
1	0.293	0.301	0.920	0.234	0.200
0	0.292	0.293	0.830	0.170	0.170

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

Vor 1963 nach Lattenpegelbeobachtungen

Bayer. Landesamt für Umwelt

A_{Eo} : 20.0 km²
PNP :NN + 678.60 m
Lage: 1.4 km

Q
m³/s

Pegel : Bad Tölz Nr. 16391004
Gewässer : Ellbach
Gebiet : Isar

Tageswerte

Tag	2002 Nov	2002 Dez	2003 Jan	Feb	Mrz	Apr	Mai	Jun	Jul	Aug	Sep	Okt	Nov	Dez
1.	0.785	0.883	0.903	0.828	0.635	0.724	0.588	0.531	0.497	0.433	0.374	0.350	0.337	0.397
2.	1.00	0.932	0.962	0.794	0.686	0.793	0.637	0.535	0.498	0.427	0.347	0.326	0.343	0.374
3.	1.33	0.889	1.01	0.775	0.741	0.820	0.622	0.490	0.491	0.424	0.349	0.346	0.346	0.336
4.	1.48	0.792	0.944	0.766	0.729	0.777	0.619	0.519	0.476	0.442	0.338	0.441	0.317	0.316
5.	1.63	0.793	0.928	0.763	0.745	0.734	0.513	0.547	0.483	0.401	0.365	0.957	0.328	0.292
6.	1.05	0.863	0.924	0.771	0.762	0.776	0.517	0.541	0.491	0.420	0.336	1.02	0.316	0.293
7.	0.931	0.849	0.914	0.745	1.06	0.772	0.564	0.524	0.425	0.418	0.328	0.542	0.355	0.355
8.	1.00	0.810	0.914	0.741	0.809	0.742	0.557	0.507	0.382	0.419	0.350	0.670	0.368	0.371
9.	1.06	0.813	0.896	0.743	0.704	0.751	0.623	0.529	0.417	0.424	0.363	0.724	0.360	0.365
10.	1.07	0.775	0.894	0.746	0.735	0.732	0.660	0.486	0.445	0.428	0.347	0.584	0.379	0.358
11.	1.09	0.786	0.872	0.706	0.807	0.733	0.836	0.503	0.452	0.375	0.357	0.503	0.351	0.341
12.	1.02	0.793	0.844	0.696	1.23	0.730	0.603	0.473	0.442	0.352	0.375	0.447	0.350	0.335
13.	0.989	0.751	0.845	0.707	1.19	0.722	0.833	0.460	0.411	0.351	0.455	0.405	0.421	0.344
14.	0.932	0.768	0.868	0.700	0.869	0.679	0.871	0.463	0.394	0.374	0.473	0.379	0.453	0.389
15.	0.884	0.740	0.883	0.704	0.800	0.664	0.683	0.540	0.395	0.391	0.446	0.360	0.387	0.420
16.	0.883	0.756	0.864	0.681	0.772	0.679	0.619	0.484	0.449	0.373	0.319	0.377	0.358	0.409
17.	0.888	1.02	0.825	0.650	0.725	0.661	0.626	0.463	0.558	0.386	0.373	0.406	0.386	0.395
18.	0.855	0.879	0.831	0.656	0.747	0.655	0.673	0.553	0.353	0.397	0.338	0.380	0.367	0.353
19.	1.01	0.817	0.806	0.676	0.729	0.652	0.564	0.530	0.425	0.354	0.313	0.385	0.366	0.335
20.	0.977	0.781	0.747	0.680	0.784	0.654	0.614	0.527	0.448	0.380	0.310	0.389	0.354	0.335
21.	0.874	0.955	0.756	0.656	0.790	0.626	0.613	0.499	0.405	0.378	0.324	0.380	0.342	0.359
22.	0.918	1.08	0.795	0.664	0.775	0.633	0.559	0.506	0.409	0.380	0.345	0.373	0.359	0.342
23.	0.973	1.00	0.845	0.675	0.755	0.619	0.582	0.445	0.474	0.375	0.396	0.376	0.353	0.358
24.	0.858	0.859	0.791	0.700	0.721	0.616	0.572	0.438	0.505	0.362	0.423	0.359	0.461	0.326
25.	0.802	0.835	0.797	0.701	0.720	0.627	0.574	0.459	0.478	0.334	0.372	0.369	0.399	0.295
26.	0.801	0.771	0.798	0.676	0.715	0.643	0.519	0.482	0.470	0.321	0.361	0.362	0.326	0.302
27.	0.787	0.779	0.881	0.648	0.728	0.639	0.540	0.462	0.443	0.333	0.373	0.319	0.363	0.320
28.	0.772	0.816	1.02	0.651	0.749	0.599	0.578	0.509	0.631	0.364	0.362	0.331	0.406	0.343
29.	0.866	1.01	0.934		0.731	0.593	0.543	0.505	0.559	0.360	0.364	0.325	0.479	0.354
30.	0.929	0.960	0.873		0.730	0.604	0.555	0.471	0.436	0.349	0.346	0.350	0.414	0.352
31.		0.875	0.834		0.850		0.512		0.413	0.456		0.337		0.351
Tag	28.	15.	20.	27.	1.	29.	31.	24.	18.	26.	20.	27.	6.	5.
NQ	0.772	0.740	0.747	0.648	0.635	0.593	0.512	0.438	0.353	0.321	0.310	0.319	0.316	0.292
MQ	0.981	0.852	0.870	0.710	0.790	0.688	0.611	0.499	0.456	0.386	0.364	0.447	0.371	0.348
HQ	1.95	1.26	1.22	1.24	1.84	0.877	1.37	0.730	0.901	0.835	0.908	1.36	0.684	0.459
Tag	5.	21.	2.	9.	12.	3.	13.	18.	17.	15.	15.	6.	24.	14.
h_N mm / h_A mm	127	114	116	86	106	89	82	65	61	52	47	60	48	47
	1934/2002		1935/2003 69 Jahre											
Jahr	1953	1953	1963	1963	1963	1972	1972	1972	1972	1972	1972	1972	1953	1953
NQ	0.230	0.230	0.200	0.170	0.190	0.245	0.233	0.267	0.240	0.258	0.247	0.246	0.230	0.230
MNQ	0.534	0.522	0.497	0.494	0.507	0.565	0.570	0.605	0.615	0.608	0.589	0.556	0.531	0.520
MQ	0.624	0.603	0.571	0.582	0.629	0.679	0.694	0.751	0.780	0.742	0.701	0.655	0.622	0.601
MHQ	1.12	1.11	0.995	1.04	1.23	1.27	1.79	1.73	2.09	1.69	1.36	1.17	1.12	1.10
HQ	5.00	3.88	2.59	3.77	2.83	2.99	19.8	5.55	11.8	7.20	3.34	2.97	5.00	3.88
Jahr	1944	1974	1974	1957	1979	1970	1940	1979	1966	1970	1940	1981	1944	1974
	1934/2002		1935/2003 69 Jahre											
Mh_N mm / Mh_A mm	81	81	76	70	84	88	93	97	104	99	91	88	81	80

Hauptwerte

		Abflussjahr (*) 2003 Jahr	Datum	Winter	Sommer	Kalenderjahr 2003 Jahr	Datum
NQ	m³/s	0.310	am 20.09.2003	0.593	0.310	0.292	am 05.12.2003
MQ	m³/s	0.638		0.817	0.461	0.545	
HQ	m³/s	1.95	am 05.11.2002 bei W= 60 cm	1.95	1.37	1.84	am 12.03.2003 bei W= 59 cm
Nq	l/(s km²)	15.5		29.7	15.5	14.6	
Mq	l/(s km²)	31.9		40.9	23.1	27.3	
Hq	l/(s km²)	97.5		97.5	68.5	91.9	
h_N	mm						
h_A	mm	1006		649	360	1006	
		1935/2003 (*) 69 Jahre				1935/2003	
NQ	m³/s	0.170	am 09.02.1963	0.170	0.233	0.170	am 09.02.1963
MNQ	m³/s	0.408		0.442	0.474	0.397	
MQ	m³/s	0.668		0.615	0.721	0.668	
MHQ	m³/s	3.45		1.86	3.28	3.40	
HQ	m³/s	19.8	am 30.05.1940	5.00	19.8	19.8	am 30.05.1940
HQ_1	m³/s	2.42		1.65	2.21	2.42	
HQ_5	m³/s						
MNq	l/(s km²)	20.4		22.1	23.7	19.9	
Mq	l/(s km²)	33.4		30.8	36.1	33.4	
MHq	l/(s km²)	172		92.9	164	170	
		1935/2003 (*) 69 Jahre				1935/2003	
Mh_N	mm						
Mh_A	mm	1053		489	564	1053	

Extremwerte

	Niedrigwasser m³/s	l/(s km²)	Datum	Hochwasser m³/s	l/(s km²)	cm	Datum
1	0.170	8.50	09.02.1963	19.8	990		30.05.1940
2				11.8	590		23.07.1966
3				11.6	580		09.07.1954
4				9.23	462		07.07.1946
5				9.10	455		21.05.1999
6				7.20	360		10.08.1970
7				5.55	278		18.06.1979
8				5.43	272		11.06.1965
9				5.34	267		18.08.1974
10				5.00	250		23.11.1944

Dauertabelle

Unterschreitungsdauer in Tagen	Unterschrittene Abflüsse m³/s: Abfluss-jahr (*) 2003	Kalender jahr 2003	1935/2003 69 Kalenderjahre: Obere Hüllwerte	Mittlere Werte	Untere Hüllwerte
(365)					
364	1.63	1.23	8.44	1.85	1.07
363	1.48	1.19	4.90	1.66	0.872
362	1.33	1.06	4.64	1.51	0.868
361	1.23	1.02	3.09	1.45	0.781
360	1.19	1.02	2.54	1.41	0.738
359	1.09	1.01	2.07	1.35	0.735
358	1.08	0.962	2.07	1.31	0.660
357	1.07	0.957	2.07	1.31	0.631
356	1.06	0.944	2.07	1.28	0.626
350	1.02	0.903	1.66	1.17	0.575
340	0.962	0.864	1.50	1.06	0.514
330	0.928	0.825	1.40	1.02	0.495
320	0.884	0.793	1.34	0.921	0.476
300	0.849	0.746	1.30	0.859	0.432
270	0.791	0.701	1.25	0.773	0.373
240	0.746	0.631	1.20	0.713	0.348
210	0.701	0.547	1.10	0.665	0.330
183	0.639	0.497	1.01	0.619	0.318
150	0.553	0.443	1.01	0.574	0.308
130	0.506	0.411	1.01	0.551	0.301
120	0.490	0.399	1.01	0.535	0.297
110	0.471	0.387	1.01	0.531	0.293
100	0.449	0.377	1.01	0.509	0.289
90	0.438	0.374	0.960	0.500	0.285
80	0.420	0.365	0.960	0.481	0.282
70	0.401	0.361	0.921	0.471	0.279
60	0.382	0.355	0.921	0.451	0.260
50	0.376	0.352	0.921	0.432	0.201
40	0.365	0.347	0.920	0.411	0.201
30	0.357	0.341	0.920	0.401	0.201
25	0.351	0.336	0.920	0.381	0.201
20	0.349	0.331	0.920	0.367	0.201
15	0.345	0.328	0.920	0.351	0.201
10	0.333	0.320	0.920	0.321	0.201
9	0.331	0.320	0.920	0.312	0.201
8	0.328	0.317	0.920	0.301	0.200
7	0.326	0.317	0.920	0.301	0.200
6	0.325	0.317	0.920	0.301	0.200
5	0.324	0.313	0.920	0.283	0.200
4	0.321	0.310	0.920	0.281	0.200
3	0.321	0.302	0.920	0.271	0.200
2	0.321	0.295	0.920	0.261	0.200
1	0.313	0.293	0.920	0.232	0.200
0	0.310	0.292	0.830	0.170	0.170

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

Vor 1963 nach Lattenpegelbeobachtungen

Bayer. Landesamt für Umwelt

A_{Eo} : 20.0 km²
PNP :NN + 678.60 m
Lage: 1.4 km

Q
m³/s

Pegel : Bad Tölz Nr. 16391004
Gewässer : Ellbach
Gebiet : Isar

Tageswerte

Tag	2001 Nov	2001 Dez	2002 Jan	Feb	Mrz	Apr	Mai	Jun	Jul	Aug	Sep	Okt	Nov	Dez
1.	0.601	1.36	0.667	0.543	0.573	0.621	0.529	0.510	0.491	0.622	0.900	0.802	0.785	0.883
2.	0.568	1.26	0.630	0.541	0.656	0.586	0.527	0.513	0.484	1.13	0.891	0.767	1.00	0.932
3.	0.545	0.828	0.624	0.554	0.669	0.573	0.543	0.473	0.497	0.568	0.858	0.802	1.33	0.889
4.	0.564	0.727	0.633	0.507	0.543	0.551	0.562	0.479	0.867	0.804	0.885	0.871	1.48	0.792
5.	0.558	0.817	0.610	0.474	0.518	0.530	0.584	0.484	0.505	0.836	0.951	0.922	1.63	0.793
6.	0.563	0.828	0.631	0.501	0.526	0.584	0.521	0.483	0.447	1.16	0.798	1.16	1.05	0.863
7.	0.663	0.907	0.656	0.571	0.475	0.717	0.494	0.499	0.455	1.61	0.774	1.21	0.931	0.849
8.	0.675	0.795	0.607	0.576	0.523	0.578	0.464	0.498	0.425	0.750	0.738	0.946	1.00	0.810
9.	0.633	0.736	0.618	0.693	0.522	0.549	0.516	0.481	0.411	0.711	0.787	0.918	1.06	0.813
10.	0.608	0.711	0.631	0.605	0.508	0.577	0.510	0.587	0.411	0.755	0.824	0.894	1.07	0.775
11.	0.572	0.768	0.588	0.535	0.503	0.570	0.549	0.553	0.416	1.42	0.819	0.875	1.09	0.786
12.	0.598	0.633	0.589	0.538	0.524	0.603	0.540	0.499	0.405	2.78	0.758	0.887	1.02	0.793
13.	0.584	0.773	0.609	0.523	0.541	0.568	0.488	0.523	0.469	1.10	0.731	0.882	0.989	0.751
14.	0.598	0.733	0.631	0.548	0.522	0.551	0.469	0.519	0.492	0.818	0.714	0.888	0.932	0.768
15.	0.606	0.631	0.582	0.533	0.488	0.606	0.459	0.525	0.469	0.902	0.718	0.975	0.884	0.740
16.	0.581	0.673	0.575	0.548	0.509	0.578	0.445	0.549	0.517	0.716	0.666	0.894	0.883	0.756
17.	0.575	0.703	0.574	0.590	0.526	0.572	0.438	0.512	0.876	0.808	0.697	1.06	0.888	1.02
18.	0.582	0.680	0.600	0.535	0.537	0.572	0.552	0.476	1.00	0.825	0.724	1.25	0.855	0.879
19.	0.625	0.682	0.557	0.567	0.681	0.570	0.712	0.487	0.565	0.777	0.663	0.936	1.01	0.817
20.	0.609	0.690	0.591	0.555	1.50	0.628	0.581	0.497	0.480	0.806	0.871	0.884	0.977	0.781
21.	0.610	0.682	0.596	0.559	0.653	0.635	0.508	0.659	0.474	0.880	0.988	0.893	0.874	0.955
22.	0.610	0.687	0.559	0.550	1.39	0.559	0.517	0.638	0.461	0.869	0.746	0.865	0.918	1.08
23.	0.642	0.683	0.559	0.613	1.08	0.456	0.512	0.480	0.427	0.834	0.751	0.863	0.973	1.00
24.	0.617	0.658	0.598	0.587	0.701	1.06	0.487	0.563	0.459	0.836	1.59	0.861	0.858	0.859
25.	0.701	0.672	0.642	0.589	0.626	0.851	0.539	0.596	0.716	0.853	1.08	0.850	0.802	0.835
26.	1.07	0.656	0.636	0.739	0.627	0.627	0.652	0.512	0.723	0.836	0.897	0.817	0.801	0.771
27.	0.819	0.648	0.743	0.754	0.601	0.708	0.523	0.502	0.538	0.798	0.958	0.800	0.787	0.779
28.	0.951	0.665	0.857	0.833	0.603	0.622	0.619	0.591	0.518	0.815	1.01	0.826	0.772	0.816
29.	0.846	0.856	0.639		0.582	0.588	0.549	0.553	0.451	0.799	0.802	0.823	0.866	1.01
30.	1.70	0.943	0.553		0.563	0.599	0.507	0.560	0.421	0.781	0.778	0.741	0.929	0.960
31.		0.718	0.555		0.616		0.515		0.477	0.815		0.781		0.875

Hauptwerte

	2001 Nov	2001 Dez	2002 Jan	Feb	Mrz	Apr	Mai	Jun	Jul	Aug	Sep	Okt	Nov	Dez
Tag	3.	15.	30.	5.	7.	23.	17.	3.	12.	3.	19.	30.	28.	15.
NQ	0.545	0.631	0.553	0.474	0.475	0.456	0.438	0.473	0.405	0.568	0.663	0.741	0.772	0.740
MQ	0.682	0.767	0.617	0.580	0.641	0.612	0.529	0.526	0.527	0.936	0.845	0.901	0.981	0.852
HQ	2.41	1.68	1.16	0.999	2.38	1.50	0.932	1.30	1.87	3.97	1.89	1.59	1.95	1.26
Tag	30.	1.	27.	28.	22.	24.	19.	21.	17.	12.	24.	17.	5.	21.
h_N mm / h_A mm	88	103	83	70	86	79	71	68	70	125	110	121	127	114
	1934/2001		1935/2002 68 Jahre											
Jahr	1953	1953	1963	1963	1963	1972	1972	1972	1972	1972	1972	1972	1953	1953
NQ	0.230	0.230	0.200	0.170	0.190	0.245	0.233	0.267	0.240	0.258	0.247	0.246	0.230	0.230
MNQ	0.530	0.519	0.494	0.492	0.506	0.565	0.571	0.607	0.619	0.612	0.593	0.559	0.535	0.523
MQ	0.618	0.599	0.566	0.580	0.627	0.679	0.695	0.755	0.785	0.747	0.706	0.659	0.625	0.605
MHQ	1.11	1.11	0.992	1.04	1.22	1.28	1.80	1.74	2.11	1.70	1.37	1.17	1.13	1.11
HQ	5.00	3.88	2.59	3.77	2.83	2.99	19.8	5.55	11.8	7.20	3.34	2.97	5.00	3.88
Jahr	1944	1974	1974	1957	1979	1970	1940	1979	1966	1970	1940	1981	1944	1974
	1934/2001		1935/2002 68 Jahre											
Mh_N mm / Mh_A mm	80	80	76	70	84	88	93	98	105	100	91	88	81	81

	Abflussjahr (*) 2002 Jahr	Datum	Winter	Sommer	Kalenderjahr 2002 Jahr	Datum
NQ m³/s	0.405	am 12.07.2002	0.456	0.405	0.405	am 12.07.2002
MQ m³/s	0.682		0.652	0.711	0.714	
HQ m³/s	3.97	am 12.08.2002 bei W= 83 cm	2.41	3.97	3.97	am 12.08.2002 bei W= 83 cm
Nq l/(s km²)	20.3		22.8	20.3	20.3	
Mq l/(s km²)	34.1		32.6	35.6	35.7	
Hq l/(s km²)	198		120	198	198	
h_N mm / h_A mm	1075		518	556	1075	
	1935/2002 (*) 68 Jahre				1935/2002	
NQ m³/s	0.170	am 09.02.1963	0.170	0.233	0.170	am 09.02.1963
MNQ m³/s	0.410		0.440	0.476	0.399	
MQ m³/s	0.669		0.612	0.724	0.670	
MHQ m³/s	3.47		1.86	3.31	3.43	
HQ m³/s	19.8	am 30.05.1940	5.00	19.8	19.8	am 30.05.1940
HQ_1 m³/s	2.43		1.63	2.24	2.43	
HQ_5 m³/s						
MNq l/(s km²)	20.5		22.0	23.8	20.0	
Mq l/(s km²)	33.5		30.6	36.2	33.5	
MHq l/(s km²)	174		92.9	165	171	
	1935/2002 (*) 68 Jahre				1935/2002	
Mh_N mm / Mh_A mm	1055		486	566	1056	

Extremwerte

	Niedrigwasser m³/s	l/(s km²)	Datum	Hochwasser m³/s	l/(s km²)	cm	Datum
1	0.170	8.50	09.02.1963	19.8	990		30.05.1940
2				11.8	590		23.07.1966
3				11.6	580		09.07.1954
4				9.23	462		07.07.1946
5				9.10	455		21.05.1999
6				7.20	360		10.08.1970
7				5.55	278		18.06.1979
8				5.43	272		11.06.1965
9				5.34	267		18.08.1974
10				5.00	250		23.11.1944

Dauertabelle

Unterschreitungsdauer in Tagen	Unterschrittene Abflüsse m³/s: Abflussjahr (*) 2002	Kalenderjahr 2002	1935/2002 68 Kalenderjahre: Obere Hüllwerte	Mittlere Werte	Untere Hüllwerte
(365)					
364	2.78	2.78	8.44	1.85	1.07
363	1.70	1.63	4.90	1.66	0.872
362	1.61	1.61	4.64	1.51	0.868
361	1.59	1.59	3.09	1.45	0.781
360	1.50	1.50	2.54	1.41	0.738
359	1.42	1.48	2.07	1.35	0.735
358	1.39	1.42	2.07	1.31	0.660
357	1.36	1.39	2.07	1.31	0.631
356	1.26	1.33	2.07	1.29	0.626
350	1.10	1.10	1.66	1.18	0.575
340	0.958	1.05	1.50	1.06	0.514
330	0.900	0.988	1.40	1.02	0.495
320	0.882	0.936	1.34	0.924	0.476
300	0.846	0.885	1.30	0.861	0.432
270	0.778	0.849	1.25	0.775	0.373
240	0.712	0.798	1.20	0.715	0.348
210	0.648	0.738	1.10	0.667	0.330
183	0.616	0.638	1.01	0.621	0.318
150	0.586	0.596	1.01	0.576	0.308
130	0.571	0.574	1.01	0.551	0.301
120	0.564	0.567	1.01	0.537	0.297
110	0.557	0.557	1.01	0.531	0.293
100	0.550	0.550	1.01	0.513	0.289
90	0.543	0.543	0.960	0.501	0.285
80	0.530	0.530	0.960	0.481	0.282
70	0.524	0.524	0.921	0.471	0.279
60	0.515	0.515	0.921	0.456	0.260
50	0.507	0.507	0.921	0.438	0.201
40	0.498	0.498	0.920	0.416	0.201
30	0.483	0.483	0.920	0.401	0.201
25	0.477	0.477	0.920	0.382	0.201
20	0.473	0.473	0.920	0.371	0.201
15	0.461	0.461	0.920	0.351	0.201
10	0.451	0.451	0.920	0.321	0.201
9	0.447	0.447	0.920	0.311	0.201
8	0.445	0.445	0.920	0.301	0.200
7	0.438	0.438	0.920	0.301	0.200
6	0.427	0.427	0.920	0.301	0.200
5	0.425	0.425	0.920	0.282	0.200
4	0.421	0.421	0.920	0.281	0.200
3	0.416	0.416	0.920	0.269	0.200
2	0.416	0.416	0.920	0.261	0.200
1	0.416	0.416	0.920	0.232	0.200
0	0.405	0.405	0.830	0.170	0.170

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

Vor 1963 nach Lattenpegelbeobachtungen

Bayer. Landesamt für Wasserwirtschaft

A_{Eo} : 20.0 km²
PNP :NN + 678.60 m
Lage: 1.4 km

Q
m³/s

Pegel : Bad Tölz Nr. 16391004
Gewässer : Ellbach
Gebiet : Isar

Tageswerte

Tag	2000 Nov	2000 Dez	2001 Jan	Feb	Mrz	Apr	Mai	Jun	Jul	Aug	Sep	Okt	Nov	Dez
1.	0.702	0.642	0.542	0.498	0.523	0.652	0.821	0.677	0.742	0.509	0.677	0.621	0.601	1.36
2.	0.694	0.613	0.536	0.478	0.513	0.658	0.756	0.917	0.751	0.524	0.541	0.611	0.568	1.26
3.	0.675	0.620	0.566	0.503	0.523	0.635	0.764	0.843	0.729	0.575	0.504	0.598	0.545	0.828
4.	0.741	0.622	0.563	0.712	0.604	0.642	0.744	0.721	0.684	0.552	0.506	0.573	0.564	0.727
5.	0.726	0.613	0.568	0.620	0.731	0.695	0.812	0.709	0.694	0.775	0.695	0.570	0.558	0.817
6.	0.703	0.617	0.568	0.591	0.649	0.688	0.799	0.743	0.682	0.571	1.06	0.578	0.563	0.828
7.	0.670	0.610	0.654	0.572	0.591	0.896	0.874	0.724	0.675	0.514	0.718	0.546	0.663	0.907
8.	0.637	0.600	0.572	0.727	0.634	0.905	0.737	0.682	0.690	0.494	0.910	0.505	0.675	0.795
9.	0.655	0.604	0.530	0.773	0.883	0.866	0.751	0.937	0.676	0.532	1.44	0.509	0.633	0.736
10.	0.769	0.588	0.542	0.718	0.772	0.783	0.774	1.68	0.610	1.00	0.610	0.518	0.608	0.711
11.	0.732	0.567	0.576	0.593	0.774	0.908	0.774	1.63	0.634	0.707	0.551	0.524	0.572	0.768
12.	0.711	0.565	0.581	0.577	0.750	0.955	0.771	0.933	0.648	0.557	0.543	0.508	0.598	0.633
13.	0.677	0.572	0.583	0.616	0.791	0.792	0.751	0.732	0.654	0.535	0.555	0.485	0.584	0.773
14.	0.688	0.560	0.522	0.667	0.762	0.740	0.731	0.831	0.638	0.519	0.844	0.486	0.598	0.733
15.	0.667	0.591	0.459	0.592	0.813	0.878	0.733	0.726	0.623	0.514	0.724	0.516	0.606	0.631
16.	0.673	0.563	0.431	0.573	0.700	0.995	0.697	0.807	0.652	0.532	0.834	0.503	0.581	0.673
17.	0.645	0.563	0.466	0.610	0.694	0.808	0.809	0.937	0.646	0.544	0.899	0.503	0.575	0.703
18.	0.676	0.584	0.490	0.589	0.758	0.748	0.772	1.04	0.667	0.520	0.694	0.495	0.582	0.680
19.	0.609	0.889	0.475	0.572	0.681	0.773	0.738	1.88	0.645	0.506	0.590	0.502	0.625	0.682
20.	0.609	0.651	0.477	0.572	0.669	0.805	0.718	1.04	0.715	0.489	0.582	0.485	0.609	0.690
21.	0.640	0.567	0.482	0.573	0.772	0.802	0.679	0.778	0.658	0.476	0.613	0.535	0.610	0.682
22.	0.711	0.579	0.485	0.689	0.742	0.824	0.655	0.756	0.618	0.481	0.613	0.557	0.610	0.687
23.	0.650	0.546	0.498	0.693	0.751	1.03	0.675	0.734	0.639	0.488	0.672	0.530	0.642	0.683
24.	0.643	0.548	0.538	0.631	0.666	1.04	0.666	0.735	0.623	0.486	0.697	0.580	0.617	0.658
25.	0.712	0.577	0.668	0.565	0.763	0.887	0.712	0.739	0.613	0.471	0.696	0.586	0.701	0.672
26.	0.691	0.599	0.863	0.523	0.657	0.864	0.696	0.730	0.606	0.462	0.919	0.558	1.07	0.656
27.	0.658	0.602	0.606	0.513	0.611	0.798	0.678	0.782	0.595	0.461	0.757	0.542	0.819	0.648
28.	0.703	0.636	0.554	0.532	0.607	0.808	0.660	0.769	0.553	0.444	0.654	0.560	0.951	0.665
29.	0.671	0.575	0.510		0.642	0.802	0.641	0.767	0.532	0.460	0.618	0.591	0.846	0.856
30.	0.660	0.580	0.501		0.780	0.793	0.662	0.728	0.553	0.442	0.618	0.538	1.70	0.943
31.		0.565	0.502		0.707		0.646		0.497	0.494		0.535		0.718
Tag	19.+	23.	16.	2.	2.	3.	29.	1.	31.	30.	3.	13.+	3.	15.
NQ	0.609	0.546	0.431	0.478	0.513	0.635	0.641	0.677	0.497	0.442	0.504	0.485	0.545	0.631
MQ	0.679	0.600	0.545	0.602	0.693	0.815	0.732	0.890	0.643	0.536	0.711	0.540	0.682	0.767
HQ	0.885	1.14	1.02	0.906	1.14	1.37	1.40	2.47	0.902	1.34	2.20	0.887	2.41	1.68
Tag	22.	19.	26.	8.	9.	23.	7.	19.	20.	10.	9.	6.	30.	1.
h_N mm / h_A mm	88	80	73	73	93	106	98	115	86	72	92	72	88	103
	1934/2000		1935/2001 67 Jahre											
Jahr	1953	1953	1963	1963	1963	1972	1972	1972	1972	1972	1972	1972	1953	1953
NQ	0.230	0.230	0.200	0.170	0.190	0.245	0.233	0.267	0.240	0.258	0.247	0.246	0.230	0.230
MNQ	0.530	0.517	0.493	0.492	0.506	0.567	0.573	0.609	0.622	0.612	0.592	0.557	0.531	0.520
MQ	0.617	0.597	0.566	0.580	0.627	0.680	0.698	0.758	0.789	0.745	0.704	0.655	0.620	0.601
MHQ	1.09	1.10	0.990	1.04	1.20	1.27	1.81	1.75	2.11	1.67	1.36	1.16	1.12	1.11
HQ	5.00	3.88	2.59	3.77	2.83	2.99	19.8	5.55	11.8	7.20	3.34	2.97	5.00	3.88
Jahr	1944	1974	1974	1957	1979	1970	1940	1979	1966	1970	1940	1981	1944	1974
	1934/2000		1935/2001 67 Jahre											
Mh_N mm / Mh_A mm	80	80	76	70	84	88	93	98	106	100	91	88	80	80

Hauptwerte

	Abflussjahr (*) 2001 Jahr	Datum	Winter	Sommer	Kalenderjahr 2001 Jahr	Datum
NQ m³/s	0.431	am 16.01.2001	0.431	0.442	0.431	am 16.01.2001
MQ m³/s	0.665		0.656	0.674	0.680	
HQ m³/s	2.47	am 19.06.2001 bei W= 67 cm	1.37	2.47	2.47	am 19.06.2001 bei W= 67 cm
Nq l/(s km²)	21.6		21.6	22.1	21.6	
Mq l/(s km²)	33.3		32.8	33.7	34.0	
Hq l/(s km²)	124		68.5	124	124	
h_N mm / h_A mm	1051		521	527	1048	
	1935/2001 (*) 67 Jahre				1935/2001	
NQ m³/s	0.170	am 09.02.1963	0.170	0.233	0.170	am 09.02.1963
MNQ m³/s	0.410		0.440	0.477	0.399	
MQ m³/s	0.668		0.611	0.725	0.669	
MHQ m³/s	3.46		1.85	3.30	3.42	
HQ m³/s	19.8	am 30.05.1940	5.00	19.8	19.8	am 30.05.1940
HQ_1 m³/s	2.42		1.61	2.21	2.42	
HQ_5 m³/s						
MNq l/(s km²)	20.5		22.0	23.9	20.0	
Mq l/(s km²)	33.4		30.6	36.3	33.5	
MHq l/(s km²)	173		92.5	165	171	
	1935/2001 (*) 67 Jahre				1935/2001	
Mh_N mm / Mh_A mm	1056		488	567	1055	

Extremwerte

	Niedrigwasser m³/s	l/(s km²)	Datum	Hochwasser m³/s	l/(s km²)	cm	Datum
1	0.170	8.50	09.02.1963	19.8	990		30.05.1940
2				11.8	590		23.07.1966
3				11.6	580		09.07.1954
4				9.23	462		07.07.1946
5				9.10	455		21.05.1999
6				7.20	360		10.08.1970
7				5.55	278		18.06.1979
8				5.43	272		11.06.1965
9				5.34	267		18.08.1974
10				5.00	250		23.11.1944

Dauertabelle

Unterschreitungsdauer in Tagen	Unterschrittene Abflüsse m³/s: Abflussjahr (*) 2001	Kalenderjahr 2001	1935/2001 67 Kalenderjahre: Obere Hüllwerte	Mittlere Werte	Untere Hüllwerte
(365)					
364	1.88	1.88	8.44	1.85	1.07
363	1.68	1.70	4.90	1.67	0.872
362	1.63	1.68	4.64	1.51	0.868
361	1.44	1.63	3.09	1.45	0.781
360	1.06	1.44	2.54	1.41	0.738
359	1.04	1.36	2.07	1.35	0.735
358	1.04	1.26	2.07	1.31	0.660
357	1.04	1.07	2.07	1.31	0.631
356	1.03	1.06	2.07	1.29	0.626
350	0.933	0.995	1.66	1.18	0.575
340	0.883	0.908	1.50	1.07	0.514
330	0.824	0.864	1.40	1.02	0.495
320	0.805	0.824	1.34	0.923	0.476
300	0.771	0.782	1.30	0.861	0.432
270	0.732	0.744	1.25	0.772	0.373
240	0.697	0.715	1.20	0.712	0.348
210	0.670	0.681	1.10	0.666	0.330
183	0.648	0.656	1.01	0.621	0.318
150	0.613	0.620	1.01	0.576	0.308
130	0.592	0.601	1.01	0.551	0.301
120	0.582	0.590	1.01	0.536	0.297
110	0.576	0.578	1.01	0.531	0.293
100	0.570	0.573	1.01	0.512	0.289
90	0.565	0.564	0.960	0.501	0.285
80	0.554	0.554	0.960	0.481	0.282
70	0.543	0.543	0.921	0.471	0.279
60	0.535	0.535	0.921	0.454	0.260
50	0.520	0.520	0.921	0.435	0.201
40	0.510	0.510	0.920	0.413	0.201
30	0.503	0.503	0.920	0.401	0.201
25	0.495	0.495	0.920	0.381	0.201
20	0.488	0.488	0.920	0.371	0.201
15	0.486	0.486	0.920	0.351	0.201
10	0.476	0.476	0.920	0.321	0.201
9	0.475	0.475	0.920	0.311	0.201
8	0.471	0.471	0.920	0.301	0.200
7	0.466	0.466	0.920	0.301	0.200
6	0.462	0.462	0.920	0.299	0.200
5	0.461	0.461	0.920	0.282	0.200
4	0.460	0.460	0.920	0.281	0.200
3	0.459	0.459	0.920	0.269	0.200
2	0.444	0.444	0.920	0.260	0.200
1	0.442	0.442	0.920	0.232	0.200
0	0.431	0.431	0.830	0.170	0.170

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

Vor 1963 nach Lattenpegelbeobachtungen

Bayer. Landesamt für Wasserwirtschaft

A_{Eo} : 20.0 km²
PNP :NN + 678.60 m
Lage: 1.4 km

Q
m³/s

Pegel : Bad Tölz
Gewässer : Ellbach
Gebiet : Isar

Nr. 16391004

Tageswerte

Tag	1999 Nov	1999 Dez	2000 Jan	Feb	Mrz	Apr	Mai	Jun	Jul	Aug	Sep	Okt	Nov	Dez
1.	0.577	0.534	0.664	0.921	0.833	0.944	0.872	0.978	0.645	0.754	1.00	0.776	0.702	0.642
2.	0.556	0.592	0.738	0.789	0.878	0.954	0.846	0.819	0.682	0.735	0.834	0.946	0.694	0.613
3.	0.646	0.719	0.748	1.02	0.840	0.990	0.834	0.782	0.732	0.928	0.814	1.02	0.675	0.620
4.	0.643	0.666	0.723	0.808	0.909	1.11	0.894	0.753	0.941	0.957	0.938	0.826	0.741	0.622
5.	0.594	0.773	0.721	0.829	0.873	0.988	0.951	0.765	0.717	0.825	1.21	0.735	0.726	0.613
6.	0.596	0.637	0.707	0.831	0.863	1.42	0.842	0.874	0.647	1.11	0.903	e 0.871	0.703	0.617
7.	0.596	0.610	0.692	0.799	0.832	1.03	0.832	0.875	0.683	1.52	1.12	e 0.853	0.670	0.610
8.	0.614	0.587	0.690	0.918	0.868	0.979	0.748	0.753	0.786	1.01	0.960	e 0.907	0.637	0.600
9.	0.864	0.589	0.675	1.20	1.03	0.947	0.765	0.747	0.794	0.989	0.801	e 0.776	0.655	0.604
10.	0.756	0.625	0.642	0.871	1.10	0.890	0.757	0.711	0.722	0.884	0.765	0.755	0.769	0.588
11.	0.630	0.642	0.624	0.949	0.909	0.879	0.744	0.724	1.01	0.867	0.757	0.813	0.732	0.567
12.	0.578	0.694	0.617	0.860	0.852	0.937	0.766	0.746	1.20	0.848	0.739	0.753	0.711	0.565
13.	0.564	0.776	0.619	0.820	0.811	0.924	0.764	0.699	0.943	0.829	0.725	0.714	0.677	0.572
14.	0.535	0.662	0.598	0.857	0.815	0.905	0.717	0.838	1.11	0.802	0.712	0.649	0.688	0.560
15.	0.549	0.634	0.612	0.948	1.12	0.879	0.735	1.25	1.10	0.795	0.706	0.664	0.667	0.591
16.	0.533	0.598	0.670	0.930	0.984	0.856	0.730	0.790	0.976	0.785	0.793	0.690	0.673	0.563
17.	0.529	0.581	0.695	0.835	1.90	0.864	0.782	0.671	0.890	0.815	0.908	0.668	0.645	0.564
18.	0.524	0.692	0.741	0.808	1.68	0.866	1.05	0.658	0.842	0.797	0.922	0.722	0.676	0.584
19.	0.506	1.06	0.763	0.964	1.26	0.862	1.10	0.678	0.819	0.788	0.744	0.730	0.609	0.887
20.	0.491	0.764	0.723	0.959	1.11	0.853	0.954	0.650	0.782	0.778	0.735	0.723	0.609	0.649
21.	0.501	0.689	0.700	0.853	1.08	0.841	0.850	0.644	0.782	0.841	1.77	0.703	0.640	0.565
22.	0.516	0.670	0.704	0.789	1.10	0.834	0.971	0.678	0.772	0.835	1.46	0.704	0.711	0.577
23.	0.545	0.681	e 0.692	0.744	1.04	0.846	0.817	1.20	0.776	0.794	0.864	0.730	0.650	0.544
24.	0.535	0.644	e 0.687	0.742	1.02	0.841	0.774	0.833	0.821	0.786	0.780	0.745	0.643	0.546
25.	0.526	0.723	e 0.684	1.18	1.04	0.835	0.769	0.802	0.915	0.778	0.765	0.741	0.712	0.576
26.	0.522	0.993	0.663	1.18	1.01	0.831	0.759	0.781	1.02	0.773	0.775	0.752	0.691	0.598
27.	0.502	1.02	0.649	0.890	1.15	0.825	0.768	0.605	0.848	0.791	0.754	0.790	0.658	0.601
28.	0.506	0.780	0.648	0.798	1.15	0.843	0.773	0.650	0.858	0.813	0.770	0.737	0.703	0.635
29.	0.538	0.705	0.648	0.793	0.998	0.834	0.828	0.749	0.901	0.785	0.765	0.720	0.671	0.575
30.	0.537	0.690	1.21		1.07	0.820	0.842	0.605	1.09	0.793	0.785	0.697	0.660	0.579
31.		0.658	1.38		0.995		1.47		0.893	0.812		0.721		0.568
Tag	20.	1.	14.	24.	13.	30.	14.	27.+	1.	2.	15.	14.	19.+	23.
NQ	0.491	0.534	0.598	0.742	0.811	0.820	0.717	0.605	0.645	0.735	0.706	0.649	0.609	0.544
MQ	0.570	0.699	0.720	0.892	1.04	0.914	0.848	0.777	0.861	0.858	0.885	0.762	0.679	0.599
HQ	0.948	1.21	1.73	1.75	2.69	1.81	1.90	2.01	1.58	2.09	2.28	1.15	0.885	1.14
Tag	9.	19.	30.	25.	17.	6.	31.	15.	30.	7.	21.	6.	22.	19.
h_N mm / h_A mm	74	94	96	112	139	118	114	101	115	115	115	102	88	80

Hauptwerte

	1934/1999		1935/2000 (66 Jahre)											
Jahr	1953	1953	1963	1963	1963	1972	1972	1972	1972	1972	1972	1972	1953	1953
NQ	0.230	0.230	0.200	0.170	0.190	0.245	0.233	0.267	0.240	0.258	0.247	0.246	0.230	0.230
MNQ	0.529	0.517	0.494	0.493	0.506	0.565	0.572	0.608	0.624	0.615	0.593	0.558	0.531	0.518
MQ	0.617	0.597	0.566	0.580	0.626	0.678	0.697	0.756	0.791	0.748	0.704	0.657	0.619	0.598
MHQ	1.10	1.10	0.989	1.04	1.20	1.27	1.82	1.74	2.13	1.67	1.35	1.17	1.10	1.10
HQ	5.00	3.88	2.59	3.77	2.83	2.99	19.8	5.55	11.8	7.20	3.34	2.97	5.00	3.88
Jahr	1944	1974	1974	1957	1979	1970	1940	1979	1966	1970	1940	1981	1944	1974
Mh_N mm / Mh_A mm	80	80	76	73	84	88	93	98	106	100	91	88	80	80

	Abflussjahr (*) 2000 Jahr	Datum	Winter	Sommer	Kalenderjahr 2000 Jahr	Datum
NQ m³/s	0.491	am 20.11.1999	0.491	0.605	0.544	am 23.12.2000
MQ m³/s	0.819		0.805	0.832	0.819	
HQ m³/s	2.69	am 17.03.2000 bei W= 71 cm	2.69	2.28	2.69	am 17.03.2000 bei W= 71 cm
Nq l/(s km²)	24.6		24.6	30.3	27.2	
Mq l/(s km²)	41.0		40.3	41.6	41.0	
Hq l/(s km²)	134		134	114	134	
h_N mm / h_A mm	1291		643	650	1295	
	1935/2000 (*) 66 Jahre				1935/2000	
NQ m³/s	0.170	am 09.02.1963	0.170	0.233	0.170	am 09.02.1963
MNQ m³/s	0.409		0.440	0.478	0.398	
MQ m³/s	0.668		0.611	0.725	0.669	
MHQ m³/s	3.48		1.86	3.31	3.43	
HQ m³/s	19.8	am 30.05.1940	5.00	19.8	19.8	am 30.05.1940
HQ_1 m³/s	2.43		1.66	2.24	2.43	
HQ_5 m³/s						
MNq l/(s km²)	20.5		22.0	23.9	19.9	
Mq l/(s km²)	33.4		30.6	36.3	33.5	
MHq l/(s km²)	174		92.8	166	172	
	1935/2000 (*) 66 Jahre				1935/2000	
Mh_N mm / Mh_A mm	1053		486	567	1058	

Dauertabelle

Unterschreitungsdauer in Tagen	Unterschrittene Abflüsse m³/s: Abflussjahr (*) 2000	Kalenderjahr 2000	1935/2000 66 Kalenderjahre: Obere Hüllwerte	Mittlere Werte	Untere Hüllwerte
(365)					
364	1.77	1.77	8.44	1.85	1.07
363	1.68	1.68	4.90	1.66	0.872
362	1.52	1.52	4.64	1.51	0.868
361	1.47	1.47	3.09	1.45	0.781
360	1.46	1.46	2.54	1.41	0.738
359	1.42	1.42	2.07	1.35	0.735
358	1.38	1.38	2.07	1.31	0.660
357	1.26	1.26	2.07	1.31	0.631
356	1.25	1.25	2.07	1.29	0.626
350	1.18	1.18	1.66	1.18	0.575
340	1.10	1.10	1.50	1.07	0.514
330	1.04	1.03	1.40	1.02	0.495
320	1.01	0.998	1.34	0.928	0.476
300	0.949	0.946	1.30	0.861	0.432
270	0.884	0.875	1.25	0.774	0.373
240	0.843	0.842	1.20	0.712	0.348
210	0.820	0.817	1.10	0.665	0.330
183	0.790	0.788	1.01	0.620	0.318
150	0.766	0.759	1.01	0.574	0.308
130	0.747	0.742	1.01	0.551	0.301
120	0.738	0.735	1.01	0.534	0.297
110	0.725	0.724	1.01	0.531	0.293
100	0.720	0.714	1.01	0.509	0.289
90	0.705	0.704	0.960	0.500	0.285
80	0.694	0.691	0.960	0.481	0.282
70	0.681	0.676	0.921	0.471	0.279
60	0.663	0.667	0.921	0.451	0.260
50	0.647	0.650	0.921	0.433	0.201
40	0.630	0.643	0.920	0.411	0.201
30	0.605	0.619	0.920	0.401	0.201
25	0.592	0.610	0.920	0.381	0.201
20	0.577	0.601	0.920	0.371	0.201
15	0.538	0.588	0.920	0.351	0.201
10	0.533	0.575	0.920	0.320	0.201
9	0.529	0.572	0.920	0.311	0.201
8	0.526	0.568	0.920	0.301	0.200
7	0.524	0.567	0.920	0.301	0.200
6	0.522	0.567	0.920	0.298	0.200
5	0.516	0.567	0.920	0.281	0.200
4	0.516	0.564	0.920	0.281	0.200
3	0.516	0.563	0.920	0.267	0.200
2	0.502	0.560	0.920	0.259	0.200
1	0.501	0.546	0.920	0.232	0.200
0	0.491	0.544	0.830	0.170	0.170

Extremwerte

	Niedrigwasser m³/s	l/(s km²)	Datum	Hochwasser m³/s	l/(s km²)	cm	Datum
1	0.170	8.50	09.02.1963	19.8	990		30.05.1940
2				11.8	590		23.07.1966
3				11.6	580		09.07.1954
4				9.23	462		07.07.1946
5				9.10	455		21.05.1999
6				7.20	360		10.08.1970
7				5.55	278		18.06.1979
8				5.43	272		11.06.1965
9				5.34	267		18.08.1974
10				5.00	250		23.11.1944

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

Vor 1963 nach Lattenpegelbeobachtungen

Bayer. Landesamt für Wasserwirtschaft

A_{Eo} : 20.0 km²
PNP :NN + 678.60 m
Lage: 1.4 km

Q
m³/s

Pegel : Bad Tölz Nr. 16391004
Gewässer : Ellbach
Gebiet : Isar

Tageswerte

Tag	1998 Nov	1998 Dez	1999 Jan	Feb	Mrz	Apr	Mai	Jun	Jul	Aug	Sep	Okt	Nov	Dez
1.	0.591	0.561	0.679	0.506	0.709	0.791	0.716	1.08	0.961	0.874	0.750	0.774	0.577	0.534
2.	0.615	0.576	0.618	0.496	1.16	0.800	0.718	1.03	0.899	0.887	0.739	0.636	0.556	0.592
3.	0.561	0.561	0.540	0.485	1.07	0.786	0.734	1.08	0.886	0.875	0.724	0.657	0.646	0.719
4.	0.585	0.558	0.628	0.524	0.918	0.856	0.751	1.21	0.870	0.850	0.720	0.874	0.643	0.666
5.	0.637	0.573	0.644	0.594	0.921	1.04	0.752	1.06	0.918	0.828	0.711	0.699	0.594	0.773
6.	0.574	0.566	0.602	0.573	0.853	0.844	0.844	1.01	0.931	0.809	0.786	0.639	0.596	0.637
7.	0.528	0.576	0.592	0.526	0.811	0.960	0.833	0.995	0.948	0.802	1.13	0.594	0.596	0.610
8.	0.508	0.554	0.631	0.535	0.794	1.00	0.786	1.04	1.46	0.768	0.848	0.575	0.614	0.587
9.	0.752	0.562	0.673	0.512	0.813	0.890	0.892	1.01	1.31	0.759	0.732	0.569	0.864	0.589
10.	1.03	0.556	0.599	0.499	0.817	0.825	0.785	1.03	1.45	0.813	0.681	0.562	0.756	0.625
11.	1.22	0.589	0.582	0.475	0.993	0.834	0.859	1.28	1.17	0.758	0.659	0.578	0.630	0.642
12.	0.765	0.799	0.569	0.461	0.962	0.944	2.08	1.07	1.13	0.744	0.630	0.576	0.578	0.694
13.	0.661	1.23	0.545	0.450	0.931	0.877	1.70	0.990	1.09	0.731	0.639	0.559	0.564	0.776
14.	0.656	1.00	0.532	0.458	0.922	0.864	1.09	0.984	1.22	0.723	0.654	0.562	0.535	0.662
15.	0.680	0.815	0.528	0.460	0.931	0.841	0.991	1.08	1.14	0.762	0.646	0.563	0.549	0.634
16.	0.813	0.717	0.548	0.459	0.980	0.847	0.906	1.12	0.961	0.785	0.636	0.553	0.533	0.598
17.	0.779	0.698	0.556	0.460	0.917	1.02	0.899	0.985	0.917	0.787	0.656	0.558	0.529	0.581
18.	0.696	0.648	0.563	0.457	0.867	0.943	0.851	1.09	0.886	0.775	0.672	0.601	0.524	0.692
19.	0.615	0.639	0.567	0.526	0.837	1.06	0.771	0.999	0.927	0.837	0.648	0.565	0.506	1.06
20.	0.584	0.627	0.565	1.80	0.823	0.977	0.875	0.919	0.963	0.906	0.684	0.556	0.491	0.764
21.	0.581	0.664	0.549	1.55	0.860	0.924	4.04	1.04	0.917	0.819	0.603	0.575	0.501	0.689
22.	0.553	0.665	0.541	1.15	0.845	0.909	3.66	1.26	0.972	0.762	0.581	0.558	0.516	0.670
23.	0.535	0.651	0.531	0.839	0.890	0.871	1.48	1.19	1.10	0.754	0.624	0.549	0.545	0.681
24.	0.543	0.636	0.531	0.708	1.10	0.823	1.10	0.952	1.01	0.755	0.656	0.526	0.535	0.644
25.	0.561	0.633	0.524	0.669	0.933	0.812	1.07	0.896	0.851	0.753	0.661	0.562	0.526	0.723
26.	0.562	0.634	0.542	0.663	0.869	0.754	1.12	0.898	0.871	0.726	0.738	0.565	0.522	0.993
27.	0.571	0.625	0.542	0.659	0.848	0.750	1.03	0.938	0.896	0.719	0.726	0.551	0.502	1.02
28.	0.592	0.607	0.521	0.678	0.820	0.734	1.02	0.913	0.900	0.722	0.721	0.532	0.506	0.780
29.	0.603	0.615	0.541		0.820	0.724	1.20	0.899	0.876	0.813	0.670	0.576	0.538	0.705
30.	0.547	0.616	0.516		0.807	0.720	1.02	0.932	0.859	0.788	0.728	0.553	0.537	0.690
31.		0.615	0.501		0.806		1.04		0.857	0.760		0.541		0.658

Hauptwerte

	1998 Nov	1998 Dez	1999 Jan	Feb	Mrz	Apr	Mai	Jun	Jul	Aug	Sep	Okt	Nov	Dez
Tag	8.	8.	31.	13.	1.	30.	1.	25.	25.	27.	22.	24.	20.	1.
NQ	0.508	0.554	0.501	0.450	0.709	0.720	0.716	0.896	0.851	0.719	0.581	0.526	0.491	0.534
MQ	0.650	0.657	0.567	0.649	0.891	0.867	1.18	1.03	1.00	0.788	0.701	0.591	0.570	0.699
HQ	1.44	1.52	0.980	2.32	1.38	1.76	9.10	1.58	1.79	0.986	1.26	1.06	0.948	1.21
Tag	11.	13.	2.	20.	2.	17.	21.	22.	10.	20.	7.	4.	9.	19.
h_N mm / h_A mm	84	88	76	78	119	112	158	134	134	106	91	79	74	94
	1934/1998		1935/1999 65 Jahre											
Jahr	1953	1953	1963	1963	1963	1972	1972	1972	1972	1972	1972	1972	1953	1953
NQ	0.230	0.230	0.200	0.170	0.190	0.245	0.233	0.267	0.240	0.258	0.247	0.246	0.230	0.230
MNQ	0.529	0.516	0.492	0.489	0.501	0.562	0.570	0.608	0.623	0.613	0.591	0.556	0.530	0.518
MQ	0.617	0.595	0.564	0.575	0.619	0.674	0.695	0.756	0.790	0.746	0.701	0.655	0.618	0.598
MHQ	1.10	1.10	0.978	1.03	1.18	1.26	1.82	1.73	2.14	1.67	1.34	1.17	1.10	1.10
HQ	5.00	3.88	2.59	3.77	2.83	2.99	19.8	5.55	11.8	7.20	3.34	2.97	5.00	3.88
Jahr	1944	1974	1974	1957	1979	1970	1940	1979	1966	1970	1940	1981	1944	1974
	1934/1998		1935/1999 65 Jahre											
Mh_N mm / Mh_A mm	80	80	76	70	83	87	93	98	106	100	91	88	80	80

	Abflussjahr (*) 1999 Jahr	Datum	Winter	Sommer	Kalenderjahr 1999 Jahr	Datum
NQ m³/s	0.450	am 13.02.1999	0.450	0.526	0.450	am 13.02.1999
MQ m³/s	0.800		0.714	0.884	0.797	
HQ m³/s	9.10	am 21.05.1999 bei W= 123 cm	2.32	9.10	9.10	am 21.05.1999 bei W= 123 cm
Nq l/(s km²)	22.5		22.5	26.3	22.5	
Mq l/(s km²)	40.0		35.7	44.2	39.9	
Hq l/(s km²)	455		116	455	455	
h_N mm / h_A mm	1261		568	691	1261	
	1935/1999 (*) 65 Jahre				1935/1999	
NQ m³/s	0.170	am 09.02.1963	0.170	0.233	0.170	am 09.02.1963
MNQ m³/s	0.408		0.439	0.476	0.396	
MQ m³/s	0.666		0.608	0.724	0.666	
MHQ m³/s	3.49		1.84	3.33	3.44	
HQ m³/s	19.8	am 30.05.1940	5.00	19.8	19.8	am 30.05.1940
HQ_1 m³/s	2.43		1.65	2.24	2.43	
HQ_5 m³/s						
MNq l/(s km²)	20.4		22.0	23.8	19.8	
Mq l/(s km²)	33.3		30.4	36.2	33.3	
MHq l/(s km²)	175		92.2	166	172	
	1935/1999 (*) 65 Jahre				1935/1999	
Mh_N mm / Mh_A mm	1050		483	566	1050	

Extremwerte

	Niedrigwasser m³/s	l/(s km²)	Datum	Hochwasser m³/s	l/(s km²)	cm	Datum
1	0.170	8.50	09.02.1963	19.8	990		30.05.1940
2				11.8	590		23.07.1966
3				11.6	580		09.07.1954
4				9.23	462		07.07.1946
5				9.10	455		21.05.1999
6				7.20	360		10.08.1970
7				5.55	278		18.06.1979
8				5.43	272		11.06.1965
9				5.34	267		18.08.1974
10				5.00	250		23.11.1944

Dauertabelle

Unterschreitungsdauer in Tagen	Unterschrittene Abflüsse m³/s: Abflussjahr (*) 1999	Kalenderjahr 1999	1935/1999 65 Kalenderjahre: Obere Hüllwerte	Mittlere Werte	Untere Hüllwerte
(365)					
364	4.04	4.04	8.44	1.85	1.07
363	3.66	3.66	4.90	1.66	0.872
362	2.08	2.08	4.64	1.51	0.868
361	1.80	1.80	3.09	1.45	0.781
360	1.70	1.70	2.54	1.41	0.738
359	1.55	1.55	2.07	1.35	0.735
358	1.48	1.48	2.07	1.31	0.660
357	1.46	1.46	2.07	1.31	0.631
356	1.45	1.45	2.07	1.29	0.626
350	1.22	1.20	1.66	1.18	0.575
340	1.12	1.10	1.50	1.07	0.514
330	1.08	1.07	1.40	1.02	0.495
320	1.04	1.03	1.34	0.923	0.476
300	0.977	0.972	1.30	0.859	0.432
270	0.909	0.900	1.25	0.771	0.373
240	0.856	0.856	1.20	0.709	0.348
210	0.812	0.809	1.10	0.661	0.330
183	0.758	0.756	1.01	0.614	0.318
150	0.708	0.708	1.01	0.571	0.308
130	0.657	0.661	1.01	0.547	0.301
120	0.644	0.648	1.01	0.531	0.297
110	0.630	0.634	1.01	0.531	0.293
100	0.616	0.603	1.01	0.509	0.289
90	0.594	0.594	0.960	0.496	0.285
80	0.578	0.577	0.960	0.481	0.282
70	0.571	0.567	0.921	0.471	0.279
60	0.563	0.558	0.921	0.451	0.260
50	0.559	0.548	0.921	0.431	0.201
40	0.551	0.537	0.920	0.411	0.201
30	0.540	0.528	0.920	0.401	0.201
25	0.532	0.526	0.920	0.381	0.201
20	0.528	0.521	0.920	0.369	0.201
15	0.516	0.512	0.920	0.351	0.201
10	0.499	0.496	0.920	0.317	0.201
9	0.496	0.491	0.920	0.308	0.201
8	0.485	0.485	0.920	0.301	0.200
7	0.475	0.475	0.920	0.301	0.200
6	0.461	0.461	0.920	0.297	0.200
5	0.461	0.461	0.920	0.281	0.200
4	0.461	0.461	0.920	0.281	0.200
3	0.459	0.459	0.920	0.266	0.200
2	0.458	0.458	0.920	0.257	0.200
1	0.457	0.457	0.920	0.228	0.200
0	0.450	0.450	0.830	0.170	0.170

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

Vor 1963 nach Lattenpegelbeobachtungen

A_{Eo} : 20.0 km²
PNP :NN + 678.60 m
Lage: 1.4 km

Q
m³/s

Pegel : Bad Tölz Nr. 16391004
Gewässer : Ellbach
Gebiet : Isar

Tageswerte

Tag	1997 Nov	1997 Dez	1998 Jan	Feb	Mrz	Apr	Mai	Jun	Jul	Aug	Sep	Okt	Nov	Dez
1.	0.444	0.520	0.498	0.467	0.469	0.545	0.487	0.457	0.541	0.430	0.376	0.442	0.591	0.561
2.	0.449	0.543	0.494	0.487	0.468	0.552	0.509	0.414	0.492	0.507	0.378	0.456	0.615	0.576
3.	0.441	0.481	0.507	0.503	0.490	0.570	0.506	0.400	0.541	0.438	0.464	0.441	0.561	0.561
4.	0.443	0.455	0.567	0.487	0.521	0.559	0.512	0.407	0.535	0.431	0.513	0.493	0.585	0.558
5.	0.432	0.434	0.586	0.487	0.476	0.553	0.482	0.417	0.470	0.527	0.553	0.602	0.637	0.573
6.	0.436	0.424	0.612	0.476	0.489	0.604	0.473	0.397	0.450	0.449	0.640	0.552	0.574	0.566
7.	0.445	0.421	0.659	0.469	0.774	0.586	0.448	0.399	0.455	0.412	0.477	0.543	0.528	0.576
8.	0.454	0.424	0.576	0.448	0.763	0.577	0.437	0.622	0.672	0.391	0.445	0.708	0.508	0.554
9.	0.457	0.434	0.540	0.430	0.635	0.545	0.437	0.472	0.770	0.376	0.499	0.578	0.752	0.562
10.	0.481	0.446	0.537	0.470	0.504	0.576	0.433	0.447	0.521	0.410	0.396	0.428	1.03	0.556
11.	0.497	0.708	0.529	0.521	0.471	0.597	0.436	0.716	0.467	0.371	0.405	0.408	1.22	0.589
12.	0.480	1.14	0.523	0.599	0.476	0.476	0.451	1.11	0.462	0.369	0.607	0.486	0.765	0.799
13.	0.456	1.02	0.498	0.429	0.457	0.560	0.414	1.01	0.439	0.406	0.587	0.510	0.661	1.23
14.	0.436	0.746	0.480	0.405	0.438	0.611	0.403	0.593	0.642	0.399	0.463	0.499	0.656	1.00
15.	0.424	0.563	0.485	0.445	0.686	0.657	0.443	0.473	0.464	0.369	0.375	0.484	0.680	0.815
16.	0.431	0.517	0.487	0.457	1.05	0.618	0.431	0.454	0.421	0.366	0.411	0.519	0.813	0.717
17.	0.427	0.500	0.533	0.474	0.793	0.587	0.440	0.444	0.424	0.383	0.584	0.506	0.779	0.698
18.	0.435	0.495	0.512	0.466	0.636	0.780	0.473	0.442	0.423	0.403	0.961	0.525	0.696	0.648
19.	0.432	0.495	0.512	0.422	0.619	0.604	0.468	0.441	0.392	0.392	0.587	0.563	0.615	0.639
20.	0.419	0.501	0.516	0.420	0.604	0.702	0.463	0.420	0.396	0.388	0.484	0.556	0.584	0.627
21.	0.432	0.521	0.489	0.429	0.559	0.551	0.462	0.424	0.388	0.402	0.459	0.501	0.581	0.664
22.	0.420	0.686	0.476	0.438	0.556	0.527	0.470	0.431	0.419	0.444	0.444	0.492	0.553	0.665
23.	0.424	0.585	0.463	0.461	0.571	0.524	0.455	0.416	0.411	0.847	0.437	0.471	0.535	0.651
24.	0.436	0.566	0.464	0.470	0.551	0.543	0.464	0.407	0.441	0.514	0.445	0.471	0.543	0.636
25.	0.426	0.597	0.452	0.453	0.555	0.506	0.469	0.408	0.427	0.521	0.455	0.520	0.561	0.633
26.	0.426	0.595	0.460	0.449	0.567	0.491	0.446	0.490	0.447	0.448	0.453	0.500	0.562	0.634
27.	0.426	0.580	0.454	0.456	0.597	0.451	0.450	0.571	0.466	0.425	0.461	0.489	0.571	0.625
28.	0.431	0.597	0.446	0.465	0.627	0.470	0.432	0.631	0.532	0.407	0.445	0.477	0.592	0.607
29.	0.423	0.553	0.454		0.597	0.486	0.448	0.534	0.479	0.394	0.432	0.574	0.603	0.615
30.	0.466	0.507	0.459		0.551	0.475	0.445	0.464	0.477	0.393	0.434	0.620	0.547	0.616
31.		0.502	0.463		0.546		0.455		0.475	0.383		0.543		0.615

Hauptwerte

	1997 Nov	1997 Dez	1998 Jan	Feb	Mrz	Apr	Mai	Jun	Jul	Aug	Sep	Okt	Nov	Dez
Tag	20.	7.	28.	14.	14.	27.	14.	6.	21.	16.	15.	11.	8.	8.
NQ	0.419	0.421	0.446	0.405	0.438	0.451	0.403	0.397	0.388	0.366	0.375	0.408	0.508	0.554
MQ	0.440	0.566	0.507	0.463	0.583	0.562	0.456	0.509	0.481	0.432	0.489	0.514	0.650	0.657
HQ	0.529	1.38	0.704	0.659	1.17	1.37	0.610	1.26	1.31	1.02	1.11	0.949	1.44	1.52
Tag	10.	12.	7.	12.	16.	20.	1.	12.	28.	23.	18.	8.	11.	13.
h_N mm / h_A mm	57	76	68	56	78	73	61	66	64	58	63	69	84	88
	1934/1997		1935/1998 64 Jahre											
Jahr	1953	1953	1963	1963	1963	1972	1972	1972	1972	1972	1972	1972	1953	1953
NQ	0.230	0.230	0.200	0.170	0.190	0.245	0.233	0.267	0.240	0.258	0.247	0.246	0.230	0.230
MNQ	0.530	0.516	0.492	0.489	0.498	0.559	0.568	0.604	0.620	0.612	0.591	0.557	0.530	0.518
MQ	0.617	0.594	0.563	0.574	0.615	0.671	0.687	0.752	0.787	0.745	0.701	0.656	0.619	0.597
MHQ	1.09	1.09	0.978	1.01	1.18	1.26	1.70	1.74	2.15	1.68	1.34	1.17	1.11	1.10
HQ	5.00	3.88	2.59	3.77	2.83	2.99	19.8	5.55	11.8	7.20	3.34	2.97	5.00	3.88
Jahr	1944	1974	1974	1957	1979	1970	1940	1979	1966	1970	1940	1981	1944	1974
	1934/1997		1935/1998 64 Jahre											
Mh_N mm / Mh_A mm	80	80	75	69	82	87	92	97	105	100	91	88	80	80

	Abflussjahr (*) 1998 Jahr	Datum	Winter	Sommer	Kalenderjahr 1998 Jahr	Datum
NQ m³/s	0.366	am 16.08.1998	0.405	0.366	0.366	am 16.08.1998
MQ m³/s	0.501		0.522	0.480	0.526	
HQ m³/s	1.38	am 12.12.1997 bei W= 54 cm	1.38	1.31	1.52	am 13.12.1998 bei W= 57 cm
Nq l/(s km²)	18.3		20.3	18.3	18.3	
Mq l/(s km²)	25.1		26.1	24.0	26.3	
Hq l/(s km²)	69.3		69.3	65.6	75.8	
h_N mm / h_A mm	790		415	375	790	
	1935/1998 (*) 64 Jahre				1935/1998	
NQ m³/s	0.170	am 09.02.1963	0.170	0.233	0.170	am 09.02.1963
MNQ m³/s	0.407		0.439	0.475	0.395	
MQ m³/s	0.664		0.606	0.721	0.664	
MHQ m³/s	3.40		1.84	3.24	3.36	
HQ m³/s	19.8	am 30.05.1940	5.00	19.8	19.8	am 30.05.1940
HQ_1 m³/s	2.42		1.64	2.21	2.42	
HQ_5 m³/s						
MNq l/(s km²)	20.4		22.0	23.8	19.8	
Mq l/(s km²)	33.2		30.3	36.1	33.2	
MHq l/(s km²)	170		91.8	162	168	
	1935/1998 (*) 64 Jahre				1935/1998	
Mh_N mm / Mh_A mm	1047		482	564	1047	

Extremwerte

	Niedrigwasser m³/s	l/(s km²)	Datum	Hochwasser m³/s	l/(s km²)	cm	Datum
1	0.170	8.50	09.02.1963	19.8	990		30.05.1940
2				11.8	590		23.07.1966
3				11.6	580		09.07.1954
4				9.23	462		07.07.1946
5				7.20	360		10.08.1970
6				5.55	278		18.06.1979
7				5.43	272		11.06.1965
8				5.34	267		18.08.1974
9				5.00	250		23.11.1944
10				4.88	244		20.07.1981

Dauertabelle

Unterschreitungsdauer in Tagen	Unterschrittene Abflüsse m³/s: Abflussjahr (*) 1998	Kalenderjahr 1998	1935/1998 64 Kalenderjahre: Obere Hüllwerte	Mittlere Werte	Untere Hüllwerte
(365)					
364	1.14	1.23	8.44	1.85	1.07
363	1.11	1.22	4.90	1.65	0.872
362	1.05	1.11	4.64	1.51	0.868
361	1.02	1.05	3.09	1.43	0.781
360	1.01	1.03	2.54	1.41	0.738
359	0.961	1.01	2.07	1.35	0.735
358	0.847	1.00	2.07	1.31	0.660
357	0.793	0.961	2.07	1.31	0.631
356	0.780	0.847	2.07	1.29	0.626
350	0.716	0.779	1.66	1.18	0.575
340	0.636	0.698	1.50	1.06	0.514
330	0.607	0.656	1.40	1.02	0.495
320	0.599	0.634	1.34	0.921	0.476
300	0.570	0.607	1.30	0.852	0.432
270	0.534	0.573	1.25	0.768	0.373
240	0.507	0.552	1.20	0.704	0.348
210	0.489	0.519	1.10	0.661	0.330
183	0.472	0.491	1.01	0.611	0.318
150	0.460	0.472	1.01	0.571	0.308
130	0.452	0.465	1.01	0.544	0.301
120	0.449	0.462	1.01	0.531	0.297
110	0.446	0.456	1.01	0.529	0.293
100	0.443	0.452	1.01	0.507	0.289
90	0.438	0.448	0.960	0.492	0.285
80	0.435	0.445	0.960	0.481	0.282
70	0.432	0.439	0.921	0.471	0.279
60	0.427	0.433	0.921	0.451	0.260
50	0.424	0.425	0.921	0.431	0.201
40	0.416	0.416	0.920	0.411	0.201
30	0.408	0.408	0.920	0.401	0.201
25	0.405	0.405	0.920	0.381	0.201
20	0.400	0.400	0.920	0.362	0.201
15	0.393	0.393	0.920	0.351	0.201
10	0.391	0.391	0.920	0.315	0.201
9	0.388	0.388	0.920	0.306	0.201
8	0.388	0.388	0.920	0.301	0.200
7	0.378	0.378	0.920	0.301	0.200
6	0.378	0.378	0.920	0.294	0.200
5	0.378	0.378	0.920	0.281	0.200
4	0.375	0.375	0.920	0.281	0.200
3	0.371	0.371	0.920	0.264	0.200
2	0.371	0.371	0.920	0.256	0.200
1	0.371	0.371	0.920	0.223	0.200
0	0.366	0.366	0.830	0.170	0.170

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

Vor 1963 nach Lattenpegelbeobachtungen