

Abfluss



Hintere Frenke - Bubendorf, Morgental

Stationsnummer: BL 4309

Einzugsgebiet: 38.20 km²

Höhe Station: 352.00 m ü. M.

Kanton Basel-Landschaft

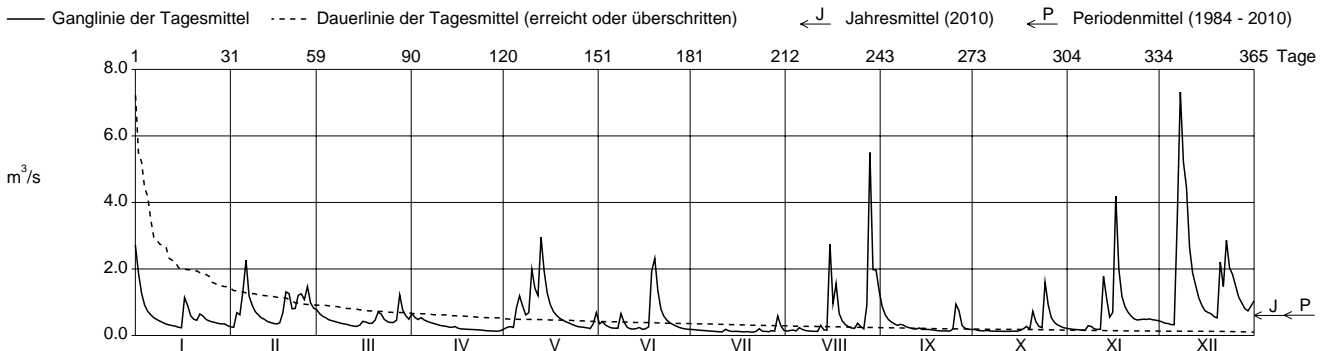
Tiefbauamt, Geschäftsbereich Wasserbau

Koordinaten: 622 270 / 256 550

Mittlere Höhe: 603.00 m ü. M.

2010		Januar	Februar	März	April	Mai	Juni	Juli	August	September	Oktober	November	Dezember	
Tagesmittel	1	2.72 +	0.261	0.772	0.654+	0.197 -	0.351	0.181	0.129	0.871	0.183	0.201	0.412	1
	2	1.89	0.245 -	0.651	0.539	0.245	0.413	0.174	0.149	0.620	0.159	0.186	0.367	2
	3	1.28	0.686	0.576	0.479	0.267	0.311	0.164	0.164	0.481	0.143	0.179	0.360	3
	4	0.917	0.622	0.531	0.537	0.241	0.261	0.154	0.136	0.404	0.138	0.170	0.326	4
	5	0.729	1.33	0.470	0.464	0.832	0.227	0.149	0.235	0.348	0.153	0.161	0.325 -	5
	6	0.623	2.26 +	0.443	0.425	1.19	0.219	0.141	0.183	0.303	0.136	0.155 -	3.49	6
	7	0.533	1.19	0.418	0.389	0.891	0.218	0.132	0.149	0.335	0.130	0.293	7.32 +	7
	8	0.479	0.913	0.390	0.362	0.619	0.657	0.128	0.137	0.307	0.129	0.274	5.22	8
	9	0.430	0.719	0.363	0.336	0.685	0.402	0.118	0.129	0.254	0.127	0.199	4.45	9
	10	0.385	0.618	0.348	0.306	1.99	0.250	0.113	0.124	0.228	0.127	0.182	2.65	10
m ³ /s	11	0.344	0.533	0.330	0.288	1.42	0.202	0.108	0.122 -	0.201	0.124 -	0.185	1.88	11
	12	0.318	0.484	0.300	0.277	1.20	0.192	0.185	0.305	0.191	0.124 -	1.78	1.50	12
	13	0.297	0.420	0.281	0.253	2.95 +	0.208	0.145	0.170	0.226	0.128	1.13	1.13	13
	14	0.279	0.390	0.273 -	0.244	1.94	0.241	0.121	0.159	0.185	0.129	0.553	0.911	14
	15	0.248	0.361	0.309	0.269	1.28	0.184 -	0.123	2.74	0.181	0.130	0.692	0.748	15
	16	0.232 -	0.347	0.425	0.217	0.931	0.202	0.124	0.960	0.183	0.157	4.19 +	0.691	16
	17	1.14	0.383	0.405	0.197	0.722	0.260	0.115	1.56	0.171	0.205	1.99	0.654	17
	18	0.904	0.691	0.366	0.193	0.609	1.94	0.107	0.660	0.159	0.275	1.17	0.564	18
	19	0.594	1.31	0.365	0.185	0.523	2.32 +	0.116	0.439	0.145	0.187	0.866	0.531	19
	20	0.488	1.26	0.460	0.182	0.465	1.35	0.106	0.329	0.138	0.726	0.698	2.21	20
+ Maximum	21	0.457	0.802	0.702	0.178	0.416	0.793	0.100 -	0.263	0.137	0.415	0.582	1.47	21
	22	0.648	0.812	0.641	0.172	0.378	0.571	0.127	0.225	0.134	0.273	0.499	2.86	22
	23	0.584	1.21	0.484	0.167	0.336	0.453	0.205	0.215	0.132 -	0.232	0.465	2.04	23
	24	0.483	1.25	0.418	0.158	0.297	0.378	0.128	0.370	0.197	1.60 +	0.478	1.83	24
	25	0.438	1.08	0.390	0.145	0.266	0.324	0.124	0.269	0.941 +	0.929	0.489	1.49	25
- Minimum	26	0.410	1.47	0.393	0.138	0.254	0.281	0.114	0.198	0.737	0.541	0.484	1.15	26
	27	0.388	0.980	0.462	0.137	0.243	0.241	0.144	0.908	0.298	0.397	0.498	0.977	27
	28	0.361	0.824	1.22 +	0.131	0.230	0.214	0.132	5.50 +	0.215	0.320	0.473	0.809	28
	29	0.347		0.762	0.129 -	0.208	0.196	0.586+	1.98	0.189	0.277	0.461	0.739	29
	30	0.349		0.593	0.151	0.354	0.185	0.296	1.97	0.181	0.234	0.441	0.884	30
	31	0.296		0.489		0.688		0.157	1.34		0.216		1.04	31
Monatsumme	0.632	0.837	0.485	0.277	0.738	0.468	0.155-	0.717	0.303	0.292	0.671	1.65 +	m ³ /s	
Maximum (Spitze)	3.58 01.	4.06 05.	2.01 28.	0.802- 01.	3.95 13.	4.16 08.	1.50 29.	9.30 27.	3.93 25.	3.18 24.	6.35 16.	12.8 07.	+ m ³ /s Datum	

Jahresmittel 0.602 m³/s



Periode	1984 - 2010 (27 Jahre)												
Monatsumme	0.743	0.725	0.921+	0.888	0.655	0.528	0.357	0.297-	0.339	0.444	0.619	0.800	m ³ /s
Maximum (Spitze)	8.53 - 1995	14.8 1999	17.6 2001	21.1 2006	24.9 1999	19.6 1990	18.1 1997	30.1 + 2007	15.3 2006	10.5 2002	16.0 1995	12.8 2010	m ³ /s Jahr
Minimum (Momentanwert)	0.095 1989	0.084 1989	0.093 1986	0.112+ 1996	0.098 1989	0.053 1989	0.046 1984	0.020 1984	0.016- 1984	0.051 1985	0.060 1985	0.025 1986	m ³ /s Jahr

Grösstes Jahresmittel 0.952 (1999) m³/s **Periodenmittel** 0.609 m³/s **Kleinstes Jahresmittel** 0.283 (1989) m³/s

Dauer der Tagesmittelwerte des Abflusses (erreicht oder überschritten)													
Tage	1	3	6	9	18	36	55	73	91	114	137	160	
2010	7.32	5.22	3.49	2.74	1.98	1.31	0.960	0.793	0.660	0.539	0.465	0.404	m ³ /s
1984 - 2010	5.31	3.76	3.06	2.69	2.07	1.49	1.13	0.891	0.728	0.584	0.477	0.393	m ³ /s
Tage	182	205	228	251	274	292	310	329	347	356	362	365	
2010	0.354	0.303	0.261	0.225	0.192	0.181	0.155	0.136	0.127	0.121	0.108	0.100	m ³ /s
1984 - 2010	0.331	0.278	0.234	0.196	0.170	0.152	0.133	0.114	0.093	0.079	0.066	0.024	m ³ /s

Wasserstand



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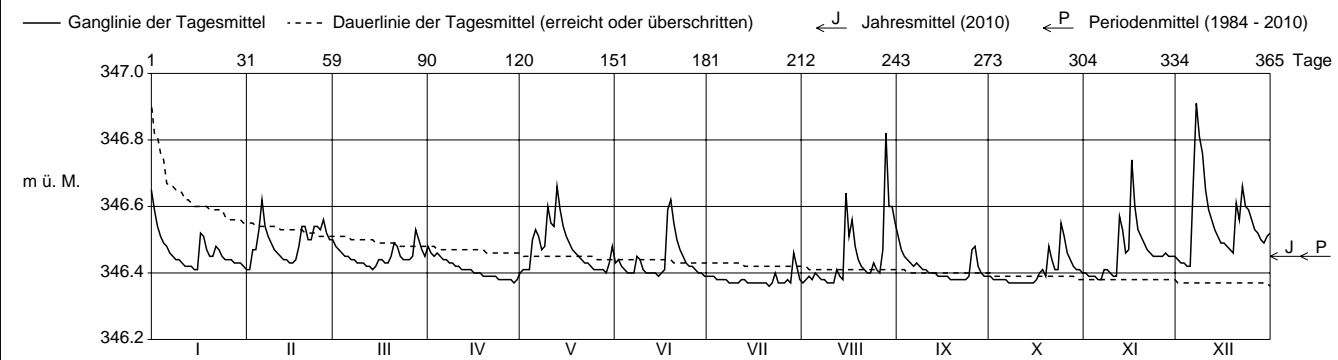
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2010		Januar	Februar	März	April	Mai	Juni	Juli	August	September	Oktober	November	Dezember		
Tagesmittel	1	346.65 +	346.41 -	346.50	346.48 +	346.40 -	346.43	346.39	346.37 -	346.51 +	346.39	346.40	346.44	1	
	2	346.59	346.41 -	346.48	346.46	346.41	346.44	346.39	346.38	346.47	346.38	346.39	346.43	2	
	3	346.54	346.47	346.47	346.45	346.41	346.42	346.39	346.39	346.45	346.38	346.39	346.43	3	
	4	346.51	346.47	346.46	346.46	346.41	346.41	346.38	346.38	346.44	346.38	346.39	346.42 -	4	
	5	346.49	346.53	346.45	346.45	346.50	346.40	346.38	346.40	346.43	346.38	346.38	346.42 -	5	
	6	346.48	346.62 +	346.45	346.44	346.53	346.40	346.38	346.39	346.42	346.38	346.38	346.42 -	6	
	7	346.46	346.54	346.44	346.44	346.51	346.40	346.38	346.38	346.43	346.37 -	346.41	346.91 +	7	
	8	346.45	346.51	346.44	346.43	346.47	346.45	346.37	346.38	346.42	346.37 -	346.41	346.81	8	
	9	346.44	346.49	346.43	346.43	346.48	346.44	346.37	346.37	346.37 -	346.41	346.37 -	346.40	346.76	9
	10	346.44	346.47	346.43	346.42	346.60	346.41	346.37	346.37	346.37 -	346.41	346.37 -	346.39	346.65	10
m ü. M.	11	346.43	346.46	346.43	346.42	346.55	346.40	346.37	346.37 -	346.40	346.37 -	346.39	346.59	11	
	12	346.42	346.45	346.42	346.41	346.54	346.40	346.38	346.41	346.40	346.37 -	346.57	346.56	12	
	13	346.42	346.44	346.42	346.41	346.66 +	346.40	346.38	346.39	346.40	346.37 -	346.53	346.53	13	
	14	346.42	346.44	346.41 -	346.41	346.59	346.40	346.37	346.38	346.39	346.37 -	346.46	346.51	14	
	15	346.41 -	346.43	346.42	346.41	346.54	346.39 -	346.37	346.64	346.39	346.37 -	346.47	346.49	15	
	16	346.41 -	346.43	346.44	346.40	346.51	346.40	346.37	346.51	346.39	346.38	346.74 +	346.49	16	
	17	346.52	346.44	346.44	346.40	346.49	346.41	346.37	346.56	346.39	346.40	346.60	346.48	17	
	18	346.51	346.48	346.43	346.40	346.47	346.59	346.37	346.48	346.38 -	346.41	346.53	346.47	18	
	19	346.47	346.54	346.43	346.39	346.46	346.62 +	346.37	346.44	346.38 -	346.39	346.51	346.46	19	
	20	346.45	346.54	346.45	346.39	346.45	346.55	346.37	346.42	346.38 -	346.48	346.49	346.61	20	
+ Maximum	21	346.45	346.50	346.49	346.39	346.44	346.50	346.36 -	346.41	346.38 -	346.44	346.47	346.56	21	
	22	346.48	346.50	346.48	346.39	346.43	346.47	346.37	346.40	346.38 -	346.41	346.46	346.66	22	
	23	346.47	346.54	346.45	346.39	346.43	346.45	346.40	346.40	346.38 -	346.41	346.45	346.60	23	
	24	346.45	346.54	346.44	346.38	346.42	346.43	346.37	346.43	346.39	346.55 +	346.45	346.59	24	
	25	346.44	346.53	346.44	346.38	346.41	346.42	346.37	346.41	346.47	346.51	346.45	346.56	25	
	- Minimum	26	346.44	346.56	346.44	346.38	346.41	346.42	346.37	346.40	346.48	346.46	346.45	346.53	26
		27	346.44	346.52	346.45	346.38	346.41	346.41	346.38	346.47	346.42	346.44	346.46	346.52	27
		28	346.43	346.50	346.53 +	346.38	346.41	346.40	346.37	346.82 +	346.40	346.42	346.45	346.50	28
		29	346.43	346.50	346.50	346.37 -	346.40	346.40	346.46 +	346.60	346.39	346.41	346.45	346.49	29
		30	346.43	346.47	346.43	346.38	346.43	346.39 -	346.42	346.60	346.39	346.41	346.45	346.51	30
31		346.42	346.45	346.45	346.45	346.48	346.48	346.38	346.55	346.39	346.40	346.45	346.52	31	
Monatsmittel	346.46	346.49	346.45	346.41	346.47	346.44	346.38 -	346.45	346.41	346.41	346.46	346.55 +	m ü. M.		
Maximum (Spitze)	346.71 01.	346.74 05.	346.60 28.	346.50 01.	346.73 13.	346.75 08.	346.56 29.	347.00 27.	346.73 25.	346.68 24.	346.86 16.	347.14 07.	m ü. M. Datum		

Jahreswerte in m ü. M. Mittel 346.45 Maximum 346.91 (07.12.2010) Minimum 346.36 (21.07.2010) Spitze 347.14 (07.12.2010)



Periode	1984 - 2010 (27 Jahre)												
Monatsmittel	346.47	346.47	346.49 +	346.49 +	346.46	346.44	346.41	346.40 -	346.41	346.43	346.45	346.48	m ü. M.
Maximum (Spitze)	346.93 - 1986	347.14 1999	347.22 2001	347.43 2006	347.38 1999	347.29 1990	347.23 1997	347.70 + 2007	347.23 2006	347.00	347.17 1995	347.14 2010	m ü. M. Jahr
Minimum (Momentanwert)	346.37 + 1989	346.36 1989	346.37 + 1986	346.37 + 1996	346.37 + 2007	346.34 1989	346.34 1984	346.32 - 1984	346.32 - 1984	346.34 1985	346.35 1985	346.33 1986	m ü. M. Jahr

Grösstes Jahresmittel 346.49 (1999) m ü. M. **Periodenmittel** 346.45 m ü. M. **Kleinstes Jahresmittel** 346.41 (1989) m ü. M.

Dauer der Tagesmittelwerte des Wasserstandes (erreicht oder überschritten)													
Tage	1	3	6	9	18	36	55	73	91	114	137	160	
2010	346.91	346.81	346.67	346.65	346.60	346.54	346.51	346.50	346.48	346.46	346.45	346.44	m ü. M.
1984 - 2010	346.79	346.71	346.66	346.64	346.60	346.56	346.53	346.51	346.49	346.47	346.45	346.44	m ü. M.
Tage	182	205	228	251	274	292	310	329	347	356	362	365	
2010	346.43	346.42	346.41	346.40	346.40	346.39	346.38	346.38	346.37	346.37	346.37	346.36	m ü. M.
1984 - 2010	346.43	346.42	346.41	346.40	346.39	346.39	346.38	346.37	346.37	346.36	346.35	346.33	m ü. M.