

Abfluss



Hintere Frenke - Bubendorf, Morgental

Stationsnummer: BL 4309

Einzugsgebiet: 38.20 km²

Höhe Station: 352 m ü. M.

Kanton Basel-Landschaft

Tiefbauamt, Geschäftsbereich Wasserbau

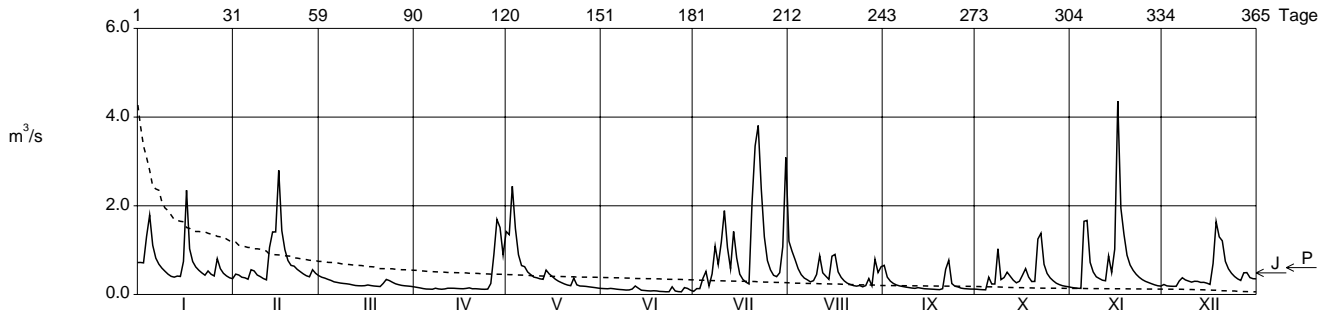
Koordinaten: 2622 278 / 1256 550

Mittlere Höhe: 603 m ü. M.

2014		Januar	Februar	März	April	Mai	Juni	Juli	August	September	Oktober	November	Dezember	
Tagesmittel	1	0.720	0.356	0.425+	0.172	1.42	0.136	0.070 -	1.20 +	0.657	0.119	0.158	0.225	1
	2	0.722	0.459	0.389	0.160	1.35	0.132	0.977	0.391	0.112	0.148	0.194	0.194	2
	3	0.713	0.439	0.369	0.148	2.44 +	0.129	0.132	0.786	0.301	0.108	0.140	0.187	3
	4	1.31	0.389	0.341	0.133	1.49	0.137	0.361	0.581	0.248	0.105 -	0.137 -	0.184 -	4
	5	1.79	0.376	0.317	0.123	0.896	0.129	0.519	0.447	0.214	0.389	1.65	0.185	5
	6	1.11	0.344	0.285	0.121	0.652	0.119	0.370	0.370	0.193	0.236	1.67	0.305	6
	7	0.820	0.558	0.272	0.118	0.627	0.112	0.465	0.330	0.180	0.236	0.724	0.377	7
	8	0.683	0.531	0.258	0.141	0.507	0.107	1.09	0.285	0.167	1.03	0.508	0.328	8
	9	0.593	0.439	0.249	0.125	0.447	0.100	0.675	0.312	0.156	0.335	0.399	0.303	9
	10	0.523	0.403	0.242	0.118	0.392	0.102	1.18	0.451	0.145	0.382	0.359	0.279	10
m ³ /s	11	0.457	0.359	0.232	0.125	0.376	0.122	1.89	0.872	0.138	0.502	0.322	0.298	11
	12	0.409	0.330 -	0.216	0.141	0.353	0.191+	1.06	0.489	0.154	0.412	0.309	0.295	12
	13	0.391	1.06	0.202	0.141	0.342	0.142	0.582	0.413	0.142	0.322	0.868	0.272	13
	14	0.415	1.41	0.197	0.140	0.550	0.096	1.42	0.341	0.130	0.263	0.496	0.274	14
	15	0.407	1.41	0.195	0.135	0.463	0.090	0.825	0.863	0.126	0.298	1.02	0.255	15
	16	0.745	2.80 +	0.199	0.131	0.406	0.083	0.458	0.904	0.122	0.437	4.36 +	0.227	16
	17	2.35 +	1.44	0.214	0.129	0.344	0.079	0.341	0.511	0.118	0.583	1.95	0.698	17
	18	1.03	1.01	0.201	0.137	0.300	0.084	0.279	0.385	0.113	0.392	1.36	1.64	+ 18
	19	0.743	0.766	0.191	0.149	0.267	0.080	0.238	0.306	0.109 -	0.292	0.886	1.30	19
	20	0.621	0.656	0.185	0.129	0.236	0.069	2.08	0.254	0.130	0.294	0.666	1.21	20
+ Maximum	21	0.546	0.639	0.179 -	0.130	0.212	0.066	3.35	0.224	0.568	1.25	0.544	0.746	21
	22	0.486	0.567	0.250	0.125	0.198	0.061	3.81 +	0.200	0.772+	1.38 +	0.454	0.579	22
	23	0.435	0.515	0.339	0.119	0.367	0.062	2.38	0.188	0.246	0.680	0.386	0.478	23
	24	0.530	0.464	0.313	0.117 -	0.217	0.173	1.30	0.202	0.187	0.474	0.334	0.405	24
	25	0.456	0.422	0.275	0.121	0.191	0.079	0.764	0.173 -	0.170	0.374	0.296	0.352	25
- Minimum	26	0.418	0.399	0.241	0.247	0.188	0.065	0.554	0.201	0.143	0.308	0.269	0.316	26
	27	0.807	0.558	0.221	0.901	0.182	0.060 -	0.433	0.359	0.132	0.254	0.242	0.489	27
	28	0.582	0.477	0.205	1.69 +	0.172	0.155	0.402	0.195	0.127	0.222	0.217	0.493	28
	29	0.478		0.196	1.51	0.163	0.137	0.491	0.194	0.122	0.198	0.197	0.381	29
	30	0.419		0.190	0.892	0.154	0.096	1.08	0.496	0.121	0.184	0.189	0.356	30
	31	0.377 -		0.183		0.143 -		3.09	0.627		0.173		0.353	31
Monatsumme		0.713	0.699	0.251	0.286	0.518	0.106-	1.02 +	0.475	0.217	0.398	0.709	0.451	m ³ /s
Maximum (Spitze)		4.83 17.	5.68 15.	0.448- 01.	2.60 28.	3.60 03.	3.13 12.	17.6 + 20.	4.16 02.	2.18 21.	5.03 05.	7.24 16.	2.94 18.	m ³ /s Datum

Jahresmittel 0.487 m³/s

— Ganglinie der Tagesmittel - - - - Dauerlinie der Tagesmittel (erreicht oder überschritten) ← J Jahresmittel (2014) ← P Periodenmittel (1984 - 2014)



Periode	1984 - 2014 (31 Jahre)												
Monatsumme	0.768	0.717	0.854	0.864+	0.624	0.522	0.389	0.288-	0.331	0.441	0.640	0.842	m ³ /s
Maximum (Spitze)	8.53 - 1995	14.8 1999	17.6 2001	21.1 2006	24.9 1999	19.6 1990	19.0 2012	30.1 + 2007	15.3 2006	15.8 2012	16.0 1995	12.8 2010	m ³ /s Jahr
Minimum (Momentanwert)	0.095 1989	0.084 1989	0.093 1986	0.105+ 2014	0.057 2011	0.048 2014	0.039 2013	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** 0.606 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	
2014	4.36	3.35	2.44	2.08	1.49	1.08	0.794	0.656	0.546	0.464	0.407	0.370	m ³ /s
1984 - 2014	5.31	3.79	3.08	2.72	2.07	1.47	1.10	0.872	0.718	0.579	0.475	0.393	m ³ /s
Tage	182	205	228	251	274	292	310	329	347	356	362	365	
2014	0.330	0.279	0.236	0.197	0.180	0.148	0.133	0.122	0.107	0.080	0.065	0.060	m ³ /s
1984 - 2014	0.333	0.279	0.235	0.196	0.170	0.151	0.132	0.113	0.093	0.079	0.066	0.026	m ³ /s

Wasserstand



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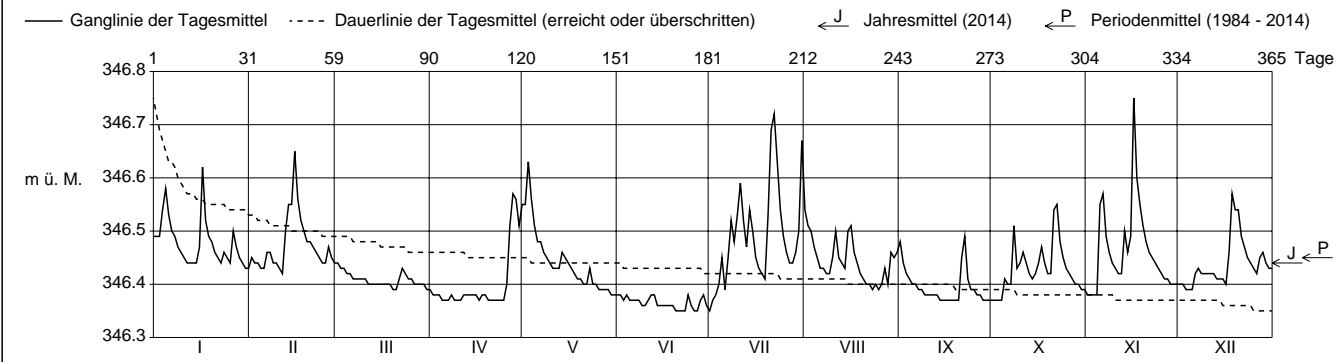
Tiefbauamt, Geschäftsbereich Wasserbau

Koordinaten: 2622 278 / 1256 550

Mittlere Höhe: 603 m ü. M.

2014	Januar	Februar	März	April	Mai	Juni	Juli	August	September	Oktober	November	Dezember	
Tagesmittel	346.49	346.43	346.44 +	346.39	346.55	346.38 +	346.35 -	346.54 +	346.48	346.37 -	346.38 -	346.40	1
	346.49	346.45	346.44 +	346.38	346.55	346.38 +	346.37	346.51	346.44	346.37 -	346.38 -	346.40	2
	346.49	346.44	346.43	346.38	346.63 +	346.37	346.38	346.50	346.42	346.37 -	346.38 -	346.39	3
	346.54	346.44	346.43	346.38	346.56	346.38 +	346.40	346.47	346.41	346.37 -	346.38 -	346.39	4
	346.58	346.43	346.42	346.37 -	346.51	346.37	346.45	346.45	346.40	346.41	346.55	346.39	5
	346.53	346.43	346.42	346.37 -	346.48	346.37	346.39	346.43	346.40	346.40	346.57	346.42	6
	346.50	346.46	346.41	346.37 -	346.48	346.37	346.45	346.43	346.39	346.40	346.49	346.43	7
	346.49	346.46	346.41	346.38	346.46	346.37	346.52	346.42	346.39	346.51	346.46	346.42	8
	346.47	346.44	346.41	346.37 -	346.45	346.36	346.48	346.42	346.38	346.43	346.44	346.42	9
	346.46	346.44	346.41	346.37 -	346.44	346.36	346.53	346.45	346.38	346.44	346.43	346.42	10
	346.45	346.43	346.41	346.37 -	346.43	346.37	346.59	346.50	346.38	346.46	346.42	346.42	11
	346.44	346.42 -	346.40	346.38	346.43	346.38 +	346.52	346.45	346.38	346.44	346.42	346.42	12
	346.44	346.50	346.40	346.38	346.43	346.38 +	346.47	346.44	346.38	346.42	346.50	346.41	13
m ü. M.	346.44	346.55	346.40	346.38	346.46	346.36	346.54	346.43	346.37 -	346.41	346.46	346.41	14
	346.44	346.55	346.40	346.38	346.45	346.36	346.50	346.50	346.37 -	346.42	346.49	346.41	15
	346.47	346.65 +	346.40	346.38	346.44	346.36	346.45	346.51	346.37 -	346.44	346.75 +	346.40	16
	346.62 +	346.56	346.40	346.37 -	346.43	346.36	346.43	346.46	346.37 -	346.47	346.60	346.46	17
	346.52	346.52	346.40	346.38	346.42	346.36	346.42	346.44	346.37 -	346.44	346.55	346.57 +	18
	346.49	346.50	346.40	346.38	346.41	346.36	346.41	346.42	346.37 -	346.42	346.51	346.54	19
	346.48	346.48	346.39 -	346.37 -	346.41	346.35 -	346.53	346.41	346.37 -	346.42	346.48	346.54	20
	346.46	346.48	346.39 -	346.37 -	346.40	346.35 -	346.69	346.40	346.45	346.54	346.46	346.49	21
	346.45	346.47	346.41	346.37 -	346.40	346.35 -	346.72 +	346.40	346.49 +	346.55 +	346.45	346.47	22
	346.44	346.46	346.43	346.37 -	346.43	346.35 -	346.63	346.39	346.41	346.48	346.44	346.45	23
+ Maximum	346.46	346.45	346.42	346.37 -	346.40	346.38 +	346.54	346.40	346.39	346.45	346.43	346.44	24
	346.45	346.44	346.41	346.37 -	346.40	346.36	346.49	346.39	346.39	346.43	346.42	346.43	25
- Minimum	346.44	346.44	346.41	346.40	346.39	346.35 -	346.46	346.40	346.38	346.42	346.41	346.42	26
	346.50	346.47	346.40	346.51	346.39	346.35 -	346.44	346.43	346.38	346.41	346.41	346.45	27
	346.47	346.45	346.40	346.57 +	346.39	346.37	346.44	346.40	346.37 -	346.40	346.40	346.46	28
	346.45	346.40	346.40	346.56	346.39	346.38 +	346.46	346.46	346.37 -	346.40	346.40	346.44	29
	346.44	346.40	346.40	346.51	346.38	346.36	346.50	346.45	346.37 -	346.39	346.40	346.43	30
	346.43 -	-	346.39 -	346.38	346.38	-	346.67	346.46	346.37 -	346.39	346.40	346.43	31
Monatsmittel	346.48	346.47	346.41	346.40	346.44	346.37 -	346.49 +	346.44	346.39	346.43	346.46	346.44	m ü. M.
Maximum (Spitze)	346.79 17.	346.83 15.	346.45 - 01.	346.64 28.	346.71 03.	346.68 12.	347.31 + 20.	346.75 02.	346.61 21.	346.80 05.	346.91 16.	346.67 18.	m ü. M. Datum

Jahreswerte in m ü. M. Mittel 346.44 Maximum 346.75 (16.11.2014) Minimum 346.35 (22.06.2014) Spitze 347.31 (20.07.2014)



Periode	1984 - 2014 (31 Jahre)												
Monatsmittel	346.47	346.47	346.49 +	346.48	346.46	346.44	346.42	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	347.36 2012	347.70 + 2007	347.23 2006	347.25 2012	347.17 1995	347.14 2010	m ü. M. Jahr
Minimum (Momentanwert)	346.37 + 1989	346.36 1989	346.37 + 1986	346.37 + 2014	346.35 2011	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. **Kleinste 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	
2014	346.75	346.69	346.63	346.60	346.55	346.52	346.50	346.48	346.46	346.45	346.44	346.43	m ü. M.
1984 - 2014	346.80	346.71	346.67	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	
2014	346.42	346.41	346.40	346.40	346.39	346.38	346.38	346.37	346.37	346.36	346.35	346.35	m ü. M.
1984 - 2014	346.43	346.42	346.41	346.40	346.39	346.39	346.38	346.37	346.36	346.36	346.35	346.33	m ü. M.