

**Abfluss**



**Hintere Frenke - Bubendorf, Morgental**

Stationsnummer: BL 4309

Einzugsgebiet: 38.20 km<sup>2</sup>

Höhe Station: 352.00 m ü. M.

**Kanton Basel-Landschaft**

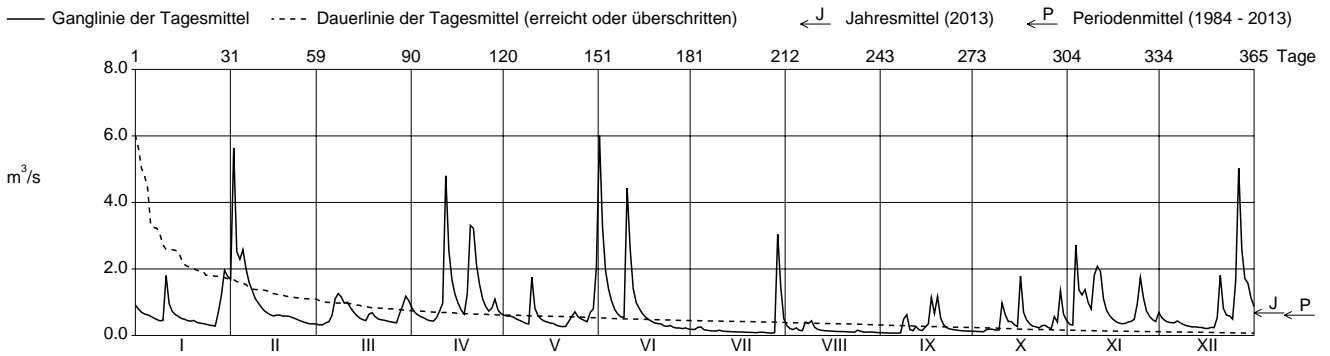
**Tiefbauamt, Geschäftsbereich Wasserbau**

Koordinaten: 622 270 / 256 550

Mittlere Höhe: 603.00 m ü. M.

2013		Januar	Februar	März	April	Mai	Juni	Juli	August	September	Oktober	November	Dezember	
<b>Tagesmittel</b>	1	0.919	1.69	0.339	0.828	0.606	6.02 +	0.185	0.292	0.084	0.126	0.335	0.530	1
	2	0.793	5.64 +	0.315 -	0.690	0.584	3.25	0.180	0.209	0.077	0.120	0.314 -	0.448	2
	3	0.699	2.52	0.325	0.612	0.579	1.94	0.243	0.177	0.076	0.116	2.72 +	0.403	3
	4	0.644	2.29	0.381	0.557	0.554	1.38	0.258	0.228	0.072	0.115 -	1.37	0.384	4
	5	0.621	2.58	0.419	0.523	0.496	1.02	0.173	0.161	0.072	0.178	1.22	0.381	5
	6	0.578	2.01	0.609	0.468	0.453	0.776	0.157	0.141	0.071 -	0.193	1.38	0.436	6
	7	0.525	1.60	1.10	0.441	0.414	0.642	0.144	0.405	0.079	0.182	0.994	0.381	7
	8	0.479	1.36	1.26 +	0.435 -	0.364	0.557	0.136	0.359	0.498	0.164	0.800	0.329	8
	9	0.440	1.11	1.16	0.533	0.348	0.549	0.134	0.441 +	0.623	0.164	1.81	0.295	9
	10	0.456	0.978	0.968	0.736	1.75	4.43	0.161	0.246	0.180	0.974	2.08	0.273	10
<b>m<sup>3</sup>/s</b>	11	1.80	0.847	1.00	0.971	0.817	2.59	0.130	0.185	0.144	0.636	1.93	0.255	11
	12	0.955	0.739	0.835	4.80 +	0.597	1.40	0.124	0.161	0.267	0.423	1.10	0.261	12
	13	0.725	0.676	0.708	2.56	0.492	0.979	0.118	0.146	0.172	0.417	0.754	0.242	13
	14	0.629	0.616	0.607	1.68	0.435	0.805	0.114	0.141	0.147	0.325	0.598	0.241	14
	15	0.572	0.586	0.522	1.24	0.404	0.654	0.109	0.134	0.250	0.267	0.494	0.213	15
	16	0.511	0.613	0.474	0.974	0.371	0.557	0.104	0.128	0.344	1.78 +	0.420	0.211 -	16
	17	0.487	0.615	0.448	0.767	0.362	0.481	0.105	0.121	1.14	0.694	0.374	0.243	17
	18	0.447	0.582	0.637	0.642	0.306	0.426	0.100	0.118	0.663	0.466	0.353	0.236	18
	19	0.430	0.584	0.685	1.26	0.280	0.376	0.096	0.118	1.17 +	0.348	0.361	0.537	19
	20	0.452	0.578	0.567	3.31	0.265 -	0.358	0.094	0.114	0.533	0.279	0.404	1.81	20
<b>+ Maximum</b>	21	0.394	0.542	0.498	3.22	0.276	0.347	0.089	0.108	0.317	0.262	0.424	0.818	21
	22	0.372	0.509	0.471	2.13	0.420	0.290	0.084	0.104	0.236	0.224	0.485	0.612	22
	23	0.359	0.466	0.459	1.53	0.575	0.272	0.095	0.100	0.195	0.298	0.956	0.592	23
	24	0.338	0.430	0.432	1.10	0.711	0.300	0.100	0.158	0.179	0.305	1.74	0.492	24
	25	0.313	0.398	0.411	0.868	0.569	0.249	0.088	0.125	0.165	0.239	1.13	1.62	25
<b>- Minimum</b>	26	0.299	0.368	0.394	0.732	0.500	0.224	0.076	0.101	0.151	0.207	0.734	5.03 +	26
	27	0.285 -	0.348 -	0.382	0.825	0.456	0.226	0.071 -	0.101	0.141	0.568	0.573	2.58	27
	28	0.702	0.352	0.665	1.09	0.413	0.206	0.085	0.104	0.135	0.404	0.476	1.71	28
	29	1.21	0.905	0.905	0.763	0.691	0.228	3.04 +	0.102	0.132	1.34	0.419	1.57	29
	30	1.96 +		1.18	0.654	0.800	0.192 -	1.44	0.090	0.129	0.636	0.691	1.13	30
31	1.78		1.04		2.05 +		0.501	0.085 -		0.450		0.873	31	
<b>Monatsumme</b>	0.683	1.13	0.652	1.23 +	0.578	1.06	0.275	0.168-	0.281	0.416	0.915	0.810	m <sup>3</sup> /s	
<b>Maximum (Spitze)</b>	2.83 30.	10.8 02. +	1.62 28.	9.56 12.	4.96 31.	10.00 10.	6.78 29.	1.42 - 07.	2.50 08.	3.93 16.	4.78 10.	6.10 26.	m <sup>3</sup> /s Datum	

**Jahresmittel** 0.677 m<sup>3</sup>/s



Periode	1984 - 2013 (30 Jahre)												
Monatsumme	0.770	0.718	0.874	0.884 +	0.628	0.536	0.368	0.282 -	0.335	0.442	0.637	0.855	m <sup>3</sup> /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 <sup>3</sup> /s Jahr
Minimum (Momentanwert)	0.095 1989	0.084 1989	0.093 1986	0.112 + 1996	0.057 2011	0.053 1989	0.039 2013	0.020 1984	0.016 - 1984	0.051 1985	0.060 1985	0.025 1986	m <sup>3</sup> /s Jahr

**Grösstes Jahresmittel** 0.952 (1999) m<sup>3</sup>/s      **Periodenmittel** 0.610 m<sup>3</sup>/s      **Kleinstes Jahresmittel** 0.283 (1989) m<sup>3</sup>/s

<b>Dauer der Tagesmittelwerte des Abflusses (erreicht oder überschritten)</b>													
Tage	1	3	6	9	18	36	55	73	91	114	137	160	
2013	6.02	5.03	3.31	3.04	2.08	1.57	1.13	0.919	0.739	0.636	0.575	0.498	m <sup>3</sup> /s
1984 - 2013	5.48	3.79	3.08	2.73	2.08	1.49	1.12	0.884	0.724	0.584	0.477	0.395	m <sup>3</sup> /s
Tage	182	205	228	251	274	292	310	329	347	356	362	365	
2013	0.448	0.405	0.358	0.295	0.239	0.182	0.146	0.118	0.100	0.084	0.072	0.071	m <sup>3</sup> /s
1984 - 2013	0.333	0.279	0.235	0.196	0.170	0.151	0.132	0.113	0.093	0.079	0.067	0.026	m <sup>3</sup> /s

**Wasserstand**



**Hintere Frenke - Bubendorf, Morgental**

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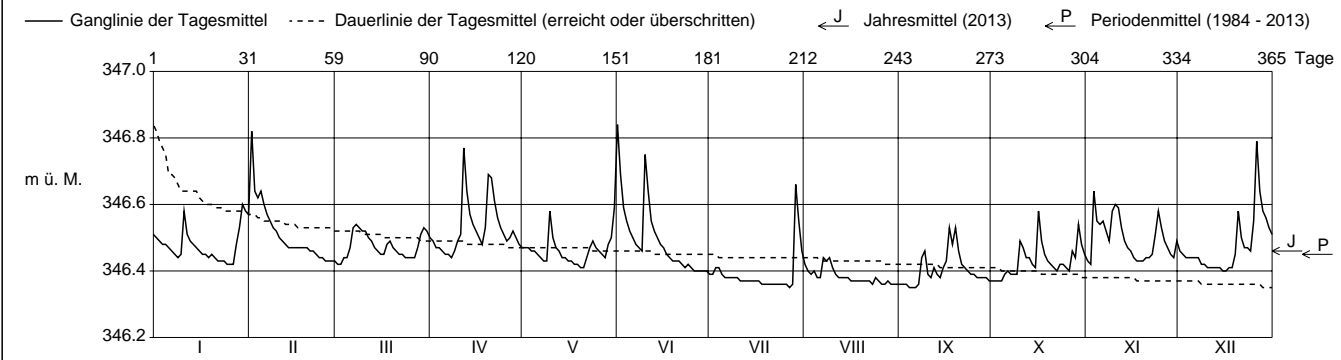
**Tiefbauamt, Geschäftsbereich Wasserbau**

Koordinaten: 622 270 / 256 550

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2013	Januar	Februar	März	April	Mai	Juni	Juli	August	September	Oktober	November	Dezember	
<b>Tagesmittel</b>	346.51	346.57	346.43	346.50	346.47	346.84	346.39	346.42	346.36	346.37	346.43	346.46	1
	346.50	346.82 +	346.42 -	346.49	346.47	346.69	346.39	346.40	346.36	346.37 -	346.42 -	346.45	2
	346.49	346.64	346.42 -	346.47	346.47	346.59	346.41	346.39	346.36	346.37 -	346.64 +	346.44	3
	346.48	346.62	346.44	346.47	346.46	346.55	346.41	346.40	346.35 -	346.37 -	346.55	346.44	4
	346.48	346.64	346.44	346.46	346.46	346.52	346.39	346.38	346.35 -	346.39	346.54	346.44	5
	346.47	346.60	346.47	346.45	346.45	346.50	346.38	346.38	346.35 -	346.40	346.55	346.44	6
	346.46	346.57	346.53	346.45	346.44	346.48	346.38	346.44 +	346.36	346.39	346.52	346.44	7
	346.45	346.55	346.54 +	346.44 -	346.43	346.47	346.38	346.43	346.44	346.39	346.49	346.42	8
	346.44	346.53	346.53	346.46	346.43	346.46	346.38	346.44 +	346.46	346.39	346.58	346.42	9
	346.45	346.52	346.52	346.49	346.58	346.75	346.38	346.41	346.39	346.49	346.60	346.41	10
	346.58	346.50	346.52	346.51	346.50	346.64	346.37	346.39	346.38	346.47	346.59	346.41	11
	346.51	346.49	346.50	346.77 +	346.47	346.55	346.37	346.38	346.41	346.44	346.53	346.41	12
	346.49	346.48	346.49	346.64	346.46	346.52	346.37	346.38	346.39	346.44	346.49	346.41	13
m ü. M.	346.48	346.47	346.47	346.57	346.44	346.50	346.37	346.38	346.38	346.42	346.47	346.41	14
	346.47	346.47	346.46	346.54	346.44	346.48	346.37	346.38	346.41	346.41	346.46	346.40	15
	346.46	346.47	346.45	346.52	346.43	346.47	346.37	346.37	346.43	346.58 +	346.44	346.40	16
	346.45	346.47	346.45	346.50	346.43	346.45	346.37	346.37	346.53 +	346.49	346.43	346.41	17
	346.45	346.47	346.48	346.48	346.42	346.44	346.36	346.37	346.48	346.45	346.43	346.41	18
	346.44	346.47	346.49	346.53	346.42	346.43	346.36	346.37	346.53 +	346.43	346.43	346.45	19
	346.45	346.47	346.47	346.69	346.41 -	346.43	346.36	346.37	346.46	346.42	346.44	346.58	20
	346.44	346.46	346.46	346.68	346.41 -	346.43	346.36	346.37	346.42	346.41	346.44	346.50	21
	346.43	346.46	346.45	346.61	346.44	346.42	346.36	346.37	346.41	346.40	346.45	346.47	22
+ Maximum	346.43	346.45	346.45	346.56	346.47	346.41	346.36	346.36	346.40	346.42	346.51	346.47	23
	346.43	346.44	346.44	346.53	346.49	346.42	346.36	346.38	346.39	346.42	346.58	346.46	24
	346.42 -	346.44	346.44	346.51	346.47	346.41	346.36	346.37	346.39	346.41	346.53	346.55	25
- Minimum	346.42 -	346.43 -	346.44	346.49	346.46	346.40 -	346.36	346.36 -	346.38	346.40	346.49	346.79 +	26
	346.42 -	346.43 -	346.44	346.50	346.45	346.40 -	346.35 -	346.36 -	346.38	346.46	346.47	346.64	27
	346.48	346.43 -	346.47	346.52	346.44	346.40 -	346.36	346.37	346.38	346.44	346.45	346.58	28
	346.53	346.41	346.51	346.50	346.48	346.40 -	346.66 +	346.36 -	346.38	346.54	346.44	346.56	29
	346.60 +	346.53	346.48	346.50	346.50	346.40 -	346.55	346.36 -	346.37	346.48	346.49	346.53	30
	346.58	346.52	346.52	346.59 +			346.46	346.36 -		346.45		346.51	31
<b>Monatsmittel</b>	346.47	346.51	346.47	346.53 +	346.46	346.50	346.39	346.38 -	346.40	346.43	346.50	346.47	m ü. M.
<b>Maximum (Spitze)</b>	346.66 30.	347.06 + 02.	346.57 28.	347.01 12.	346.79 31.	347.03 10.	346.89 29.	346.55 - 07.	346.64 08.	346.73 16.	346.78 10.	346.85 26.	m ü. M. Datum

**Jahreswerte in m ü. M.** Mittel 346.46 Maximum 346.84 (01.06.2013) Minimum 346.35 (27.07.2013) Spitze 347.06 (02.02.2013)



Periode	1984 - 2013 (30 Jahre)												
<b>Monatsmittel</b>	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.
<b>Maximum (Spitze)</b>	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
<b>Minimum (Momentanwert)</b>	346.37 + 1989	346.36 1989	346.37 + 1986	346.37 + 1996	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.

<b>Dauer der Tagesmittelwerte des Wasserstandes (erreicht oder überschritten)</b>													
Tage	1	3	6	9	18	36	55	73	91	114	137	160	
2013	346.84	346.79	346.69	346.66	346.60	346.56	346.53	346.51	346.49	346.48	346.47	346.46	m ü. M.
1984 - 2013	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.
<b>Tage</b>	<b>182</b>	<b>205</b>	<b>228</b>	<b>251</b>	<b>274</b>	<b>292</b>	<b>310</b>	<b>329</b>	<b>347</b>	<b>356</b>	<b>362</b>	<b>365</b>	
2013	346.45	346.44	346.43	346.42	346.41	346.39	346.38	346.37	346.36	346.36	346.35	346.35	m ü. M.
1984 - 2013	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.