

**Abfluss**



**Hintere Frenke - Bubendorf, Morgental**

Stationsnummer: BL 4309

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

Höhe Station: 352 m ü. M.

**Kanton Basel-Landschaft**

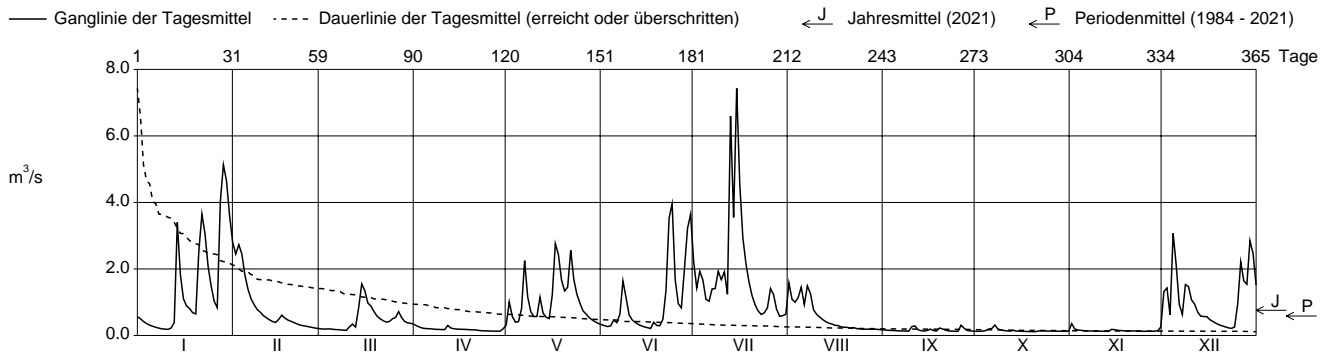
**Tiefbauamt, Geschäftsbereich Wasserbau**

Koordinaten: 2 622 278 / 1 256 550

Mittlere Höhe: 603 m ü. M.

2021		Januar	Februar	März	April	Mai	Juni	Juli	August	September	Oktober	November	Dezember		
Tagesmittel	1	0.562	2.81 +	0.208	0.334+	0.315 -	0.325	2.22	1.58 +	0.166	0.127	0.356+	1.32	1	
	2	0.505	2.45	0.198	0.285	1.01	0.296	1.43	1.09	0.159	0.125	0.193	1.43	2	
	3	0.420	2.73	0.192	0.245	0.569	0.267	1.93	1.00	0.153	0.130	0.167	0.621	3	
	4	0.359	2.45	0.198	0.218	0.402	0.288	1.67	1.14	0.148	0.147	0.154	3.07 +	4	
	5	0.310	1.81	0.194	0.206	0.415	0.466	1.09	1.45	0.143	0.194	0.146	2.12	5	
	6	0.276	1.39	0.182	0.204	0.807	0.386	1.03	0.933	0.139	0.207	0.137	0.137	0.938	6
	7	0.246	1.10	0.176	0.196	2.25	0.637	1.40	1.49	0.136	0.313+	0.135	0.634	7	
	8	0.221	0.926	0.169	0.185	1.16	1.64	1.41	1.26	0.134	0.194	0.133	1.53	8	
	9	0.199	0.779	0.160	0.182	0.718	1.14	1.93	0.774	0.132	0.167	0.131	1.47	9	
	10	0.191	0.701	0.153 -	0.178	0.569	0.619	1.68	0.635	0.269	0.149	0.130	1.07	10	
m <sup>3</sup> /s	11	0.184 -	0.598	0.261	0.177	0.571	0.469	1.91	0.554	0.286	0.137	0.128	0.942	11	
	12	0.225	0.531	0.342	0.303	1.15	0.392	1.24	0.477	0.173	0.131	0.125 -	0.703	12	
	13	0.389	0.471	0.254	0.225	0.674	0.332	6.60	0.416	0.143	0.154	0.126	0.580	13	
	14	3.40	0.419	0.833	0.201	0.549	0.289	3.55	0.371	0.135	0.133	0.184	0.571	14	
	15	1.83	0.393	1.55 +	0.193	0.510	0.258	7.43 +	0.343	0.151	0.129	0.173	0.564	15	
	16	1.10	0.486	1.35	0.188	1.22	0.235	4.56	0.306	0.191	0.125	0.154	0.472	16	
	17	0.890	0.611	0.977	0.184	2.76 +	0.209 -	2.95	0.297	0.149	0.122	0.148	0.418	17	
	18	0.808	0.523	0.884	0.182	2.43	0.397	2.17	0.256	0.134	0.119	0.140	0.365	18	
	19	0.686	0.463	0.715	0.174	1.67	0.302	1.61	0.248	0.224	0.115	0.137	0.318	19	
	20	0.647	0.425	0.580	0.170	1.34	0.294	1.20	0.244	0.197	0.113 -	0.135	0.288	20	
	+ Maximum	21	2.53	0.385	0.502	0.168	1.45	0.490	0.920	0.225	0.159	0.131	0.137	0.258	21
22		3.65	0.347	0.444	0.153	2.56	1.35	0.735	0.238	0.136	0.137	0.133	0.229	22	
23		3.06	0.310	0.402	0.143	1.69	3.53	0.631	0.209	0.131	0.135	0.130	0.212 -	23	
24		2.09	0.293	0.420	0.139	1.24	3.96 +	0.683	0.197	0.126	0.133	0.126	0.255	24	
25		1.49	0.277	0.500	0.136	0.972	1.67	0.832	0.192	0.124 -	0.131	0.126	0.936	25	
- Minimum	26	1.03	0.258	0.542	0.132	0.739	0.956	1.41	0.189	0.307+	0.134	0.128	2.21	26	
	27	0.839	0.239	0.717	0.131	0.646	0.832	1.23	0.190	0.219	0.130	0.128	1.64	27	
	28	4.03	0.221 -	0.534	0.130	0.538	2.00	0.780	0.189	0.151	0.127	0.129	1.54	28	
	29	5.13 +		0.419	0.129 -	0.467	3.22	0.578 -	0.189	0.138	0.129	0.144	2.85	29	
	30	4.65		0.379	0.199	0.409	3.64	0.596	0.183	0.131	0.130	0.256	2.47	30	
	31	3.61		0.367		0.362		0.639	0.173 -				1.52	31	
Monatsumme		1.47	0.871	0.477	0.190	1.04	1.03	1.87 +	0.550	0.166	0.144-	0.152	1.08	m <sup>3</sup> /s	
Maximum (Spitze)		7.94 29.	4.06 03.	2.15 15.	0.498 30.	4.20 21.	23.2 + 23.	11.9 13.	3.75 07.	1.48 10.	0.382- 07.	1.26 30.	4.29 04.	m <sup>3</sup> /s Datum	

**Jahresmittel** 0.757 m<sup>3</sup>/s



Periode	1984 - 2021 (38 Jahre)												
Monatsumme	0.788	0.726	0.809+	0.773	0.655	0.544	0.391	0.273-	0.289	0.398	0.580	0.797	m <sup>3</sup> /s
Maximum (Spitze)	8.53 - 1995	14.8 1999	17.6 2001	21.1 2006	24.9 1999	23.2 2021	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)	0.045 2017	0.084 1989	0.093+ 1986	0.081 2020	0.057 2011	0.048 2014	0.024 2017	0.020 1984	0.016- 1984	0.030 2018	0.048 2015	0.025 1986	m <sup>3</sup> /s Jahr

**Grösstes Jahresmittel** 0.952 (1999) m<sup>3</sup>/s      **Periodenmittel** 0.585 m<sup>3</sup>/s      **Kleinstes Jahresmittel** 0.283 (1989) m<sup>3</sup>/s

Dauer der Tagesmittelwerte des Abflusses (erreicht oder überschritten)													
Tage	1	3	6	9	18	36	55	73	91	114	137	160	
2021	7.43	5.13	4.03	3.64	2.85	1.93	1.47	1.20	0.938	0.686	0.562	0.420	m <sup>3</sup> /s
1984 - 2021	5.31	3.83	3.09	2.72	2.04	1.43	1.06	0.832	0.686	0.549	0.447	0.371	m <sup>3</sup> /s
Tage	182	205	228	251	274	292	310	329	347	356	362	365	
2021	0.356	0.286	0.225	0.194	0.176	0.153	0.137	0.132	0.129	0.126	0.122	0.113	m <sup>3</sup> /s
1984 - 2021	0.310	0.259	0.217	0.184	0.158	0.139	0.124	0.105	0.084	0.072	0.058	0.028	m <sup>3</sup> /s

**Wasserstand**



**Hintere Frenke - Bubendorf, Morgental**

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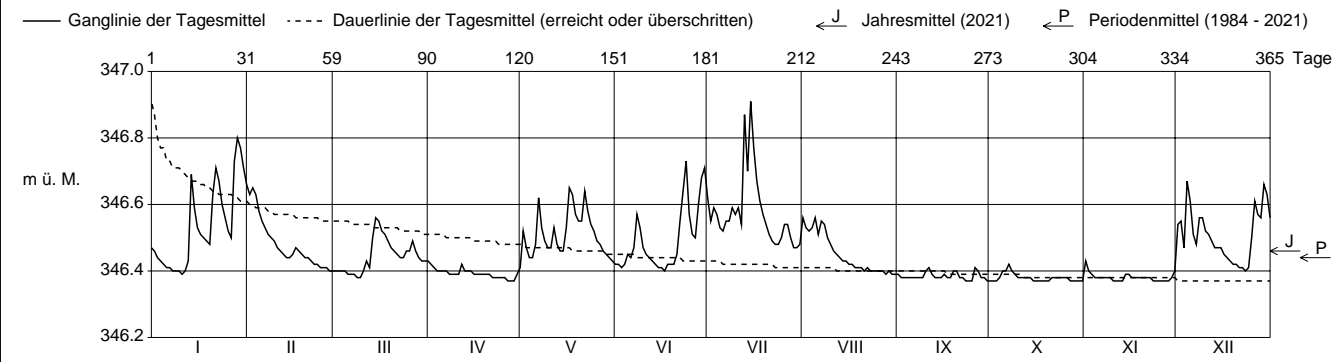
**Tiefbauamt, Geschäftsbereich Wasserbau**

Koordinaten: 2 622 278 / 1 256 550

Mittlere Höhe: 603 m ü. M.

2021	Januar	Februar	März	April	Mai	Juni	Juli	August	September	Oktober	November	Dezember	
<b>Tagesmittel</b>	346.47	346.66 +	346.40	346.43 +	346.41 -	346.42	346.62	346.56 +	346.39	346.37 -	346.43 +	346.54	1
	346.46	346.63	346.40	346.42	346.52	346.42	346.55	346.53	346.38	346.37 -	346.40	346.55	2
	346.44	346.65	346.40	346.41	346.47	346.41	346.59	346.52	346.38	346.37 -	346.39	346.47	3
	346.43	346.63	346.40	346.40	346.44	346.42	346.57	346.53	346.38	346.38	346.38	346.67 +	4
	346.42	346.58	346.40	346.40	346.44	346.45	346.53	346.56 +	346.38	346.40	346.38	346.61	5
	346.41	346.55	346.39	346.40	346.48	346.44	346.52	346.51	346.38	346.40	346.38	346.51	6
	346.41	346.53	346.39	346.40	346.62	346.47	346.55	346.55	346.38	346.42 +	346.38	346.48	7
	346.40	346.51	346.39	346.39	346.53	346.57	346.55	346.54	346.38	346.40	346.38	346.56	8
	346.40	346.50	346.38 -	346.39	346.49	346.53	346.59	346.50	346.38	346.39	346.38	346.56	9
	346.40	346.49	346.38 -	346.39	346.47	346.47	346.57	346.48	346.40	346.38	346.37 -	346.52	10
	346.39 -	346.47	346.40	346.39	346.47	346.45	346.59	346.46	346.41 +	346.38	346.37 -	346.51	11
	346.40	346.46	346.43	346.42	346.53	346.44	346.54	346.45	346.39	346.38	346.37 -	346.49	12
	346.43	346.45	346.41	346.40	346.48	346.43	346.87	346.44	346.38	346.38	346.37 -	346.47	13
m ü. M.	346.69	346.44	346.50	346.40	346.46	346.42	346.70	346.43	346.38	346.38	346.39	346.47	14
	346.59	346.44	346.56 +	346.40	346.46	346.41	346.91 +	346.43	346.38	346.37 -	346.39	346.47	15
	346.53	346.45	346.55	346.39	346.53	346.41	346.77	346.42	346.39	346.37 -	346.38	346.45	16
	346.51	346.47	346.52	346.39	346.65 +	346.40 -	346.67	346.42	346.38	346.37 -	346.38	346.44	17
	346.50	346.46	346.51	346.39	346.63	346.42	346.61	346.41	346.38	346.37 -	346.38	346.43	18
	346.49	346.45	346.49	346.39	346.57	346.42	346.57	346.41	346.40	346.37 -	346.38	346.42	19
	346.48	346.44	346.47	346.39	346.55	346.42	346.54	346.41	346.40	346.37 -	346.38	346.42	20
	346.63	346.44	346.46	346.39	346.55	346.45	346.51	346.40	346.38	346.38	346.38	346.41	21
	346.71	346.43	346.45	346.38	346.64	346.55	346.49	346.41	346.38	346.38	346.38	346.41	22
+ Maximum	346.67	346.42	346.44	346.38	346.58	346.64	346.48	346.40	346.37 -	346.38	346.37 -	346.40 -	23
	346.60	346.42	346.44	346.38	346.54	346.73 +	346.48	346.40	346.37 -	346.38	346.37 -	346.41	24
	346.56	346.41	346.46	346.38	346.52	346.57	346.50	346.40	346.37 -	346.38	346.37 -	346.50	25
- Minimum	346.52	346.41	346.46	346.38	346.49	346.51	346.54	346.40	346.41 +	346.38	346.37 -	346.61	26
	346.50	346.41	346.49	346.37 -	346.48	346.50	346.54	346.40	346.40	346.37 -	346.37 -	346.57	27
	346.73	346.40 -	346.46	346.37 -	346.46	346.60	346.50	346.39 -	346.38	346.37 -	346.37 -	346.56	28
	346.80 +	346.44	346.37 -	346.45	346.68	346.47	346.47	346.40	346.38	346.37 -	346.38	346.66	29
	346.77	346.43	346.39	346.44	346.44	346.71	346.47 -	346.39 -	346.37 -	346.37 -	346.40	346.63	30
	346.71	346.43	346.43	346.39	346.43	346.43	346.48	346.39 -	346.37 -	346.37 -	346.40	346.56	31
Monatsmittel	346.53	346.49	346.44	346.39	346.51	346.49	346.58 +	346.45	346.38 -	346.38 -	346.38 -	346.51	m ü. M.
Maximum (Spitze)	346.94 29.	346.74 03.	346.61 15.	346.46 30.	346.75 21.	347.49 + 23.	347.11 13.	346.72 07.	346.56 10.	346.44 - 07.	346.54 30.	346.75 04.	m ü. M. Datum

**Jahreswerte in m ü. M.** Mittel 346.46 Maximum 346.91 (15.07.2021) Minimum 346.37 (19.10.2021) Spitze 347.49 (23.06.2021)



Periode	1984 - 2021 (38 Jahre)												
Monatsmittel	346.47	346.47	346.48 +	346.47	346.46	346.44	346.41	346.40 -	346.40 -	346.42	346.44	346.47	m ü. M.
Maximum (Spitze)	346.94 - 2021	347.14 1999	347.22 2001	347.43 2006	347.38 1999	347.49 2021	347.36 2012	347.70 + 2007	347.23 2006	347.25 2012	347.17 1995	347.14 2010	m ü. M. Jahr
Minimum (Momentanwert)	346.35 2017	346.36 1989	346.37 + 1986	346.36 2020	346.35 2011	346.34 1989	346.34 2017	346.32 - 1984	346.32 - 1984	346.34 2018	346.35 2015	346.33 1986	m ü. M. Jahr

**Grösstes Jahresmittel** 346.49 (1999) m ü. M. **Periodenmittel** 346.44 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	
2021	346.91	346.80	346.73	346.71	346.66	346.59	346.56	346.53	346.51	346.48	346.47	346.44	m ü. M.
1984 - 2021	346.80	346.72	346.67	346.64	346.60	346.56	346.52	346.50	346.48	346.46	346.45	346.43	m ü. M.
Tage	182	205	228	251	274	292	310	329	347	356	362	365	
2021	346.43	346.41	346.40	346.40	346.39	346.38	346.38	346.38	346.37	346.37	346.37	346.37	m ü. M.
1984 - 2021	346.42	346.41	346.40	346.40	346.39	346.38	346.38	346.38	346.37	346.36	346.35	346.33	m ü. M.