

**Abfluss**



**Vordere Frenke - Bubendorf, Talhaus**

Stationsnummer: BL 4319

Einzugsgebiet: 45.60 km<sup>2</sup>

Höhe Station: 371.00 m ü. M.

**Kanton Basel-Landschaft**

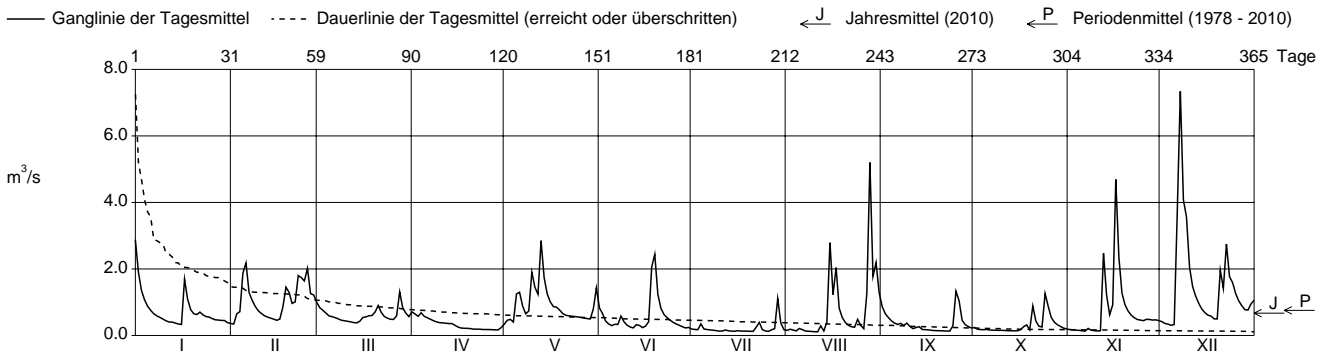
**Tiefbauamt, Geschäftsbereich Wasserbau**

Koordinaten: 623 420 / 255 510

Mittlere Höhe: 647.00 m ü. M.

2010		Januar	Februar	März	April	Mai	Juni	Juli	August	September	Oktober	November	Dezember	
<b>Tagesmittel</b>	1	2.88 +	0.363	1.00	0.710+	0.334 -	0.829	0.194	0.153	0.867	0.240	0.179	0.416	1
	2	1.90	0.343 -	0.836	0.646	0.457	0.656	0.181	0.187	0.655	0.189	0.166	0.361	2
	3	1.35	0.651	0.757	0.576	0.485	0.434	0.174	0.167	0.540	0.178	0.160	0.341	3
	4	1.07	0.716	0.674	0.682	0.403	0.346	0.348	0.136	0.440	0.174	0.155	0.306 -	4
	5	0.878	1.88	0.588	0.575	1.25	0.296	0.194	0.211	0.374	0.181	0.142	0.329	5
	6	0.754	2.18 +	0.566	0.533	1.30	0.337	0.179	0.176	0.331	0.164	0.129 -	3.71	6
	7	0.653	1.29	0.537	0.488	0.888	0.331	0.167	0.134	0.366	0.160	0.212	7.34 +	7
	8	0.589	1.06	0.499	0.443	0.651	0.583	0.159	0.127	0.301	0.158	0.158	4.08	8
	9	0.543	0.875	0.459	0.409	0.736	0.411	0.146	0.121	0.371	0.155	0.145	3.56	9
	10	0.491	0.742	0.443	0.385	1.90	0.308	0.131	0.113	0.273	0.156	0.136	2.05	10
<b>m<sup>3</sup>/s</b>	11	0.441	0.662	0.427	0.378	1.45	0.255	0.134	0.111 -	0.206	0.149	0.142	1.47	11
	12	0.404	0.594	0.411	0.369	1.24	0.228	0.165	0.290	0.238	0.142	2.47	1.18	12
	13	0.403	0.554	0.388	0.358	2.85 +	0.325	0.139	0.136	0.264	0.142	1.22	0.965	13
	14	0.373	0.522	0.379 -	0.358	1.74	0.303	0.132	0.403	0.181	0.141 -	0.624	0.793	14
	15	0.344	0.492	0.425	0.305	1.25	0.236	0.127	2.79	0.175	0.142	0.923	0.685	15
<b>+ Maximum</b>	16	0.331 -	0.456	0.540	0.253	1.01	0.279	0.145	1.23	0.169	0.171	4.69 +	0.611	16
	17	1.69	0.493	0.559	0.224	0.869	0.412	0.133	2.04	0.156	0.264	2.36	0.581	17
	18	1.09	0.856	0.592	0.216	0.853	2.06	0.130	0.822	0.148	0.317	1.28	0.499	18
	19	0.778	1.45	0.801	0.215	0.769	2.44 +	0.131	0.539	0.144	0.170	0.922	0.498	19
	20	0.654	1.30	0.704	0.208	0.664	1.24	0.126	0.394	0.143	0.888	0.735	1.96	20
<b>- Minimum</b>	21	0.628	0.965	0.899	0.191	0.608	0.815	0.125	0.305	0.136	0.432	0.612	1.42	21
	22	0.702	1.01	0.696	0.190	0.591	0.632	0.247	0.262	0.134	0.279	0.535	2.75	22
	23	0.620	1.80	0.571	0.189	0.580	0.537	0.394	0.248	0.133 -	0.255	0.481	1.77	23
	24	0.569	1.74	0.522	0.180	0.570	0.459	0.177	0.483	0.292	1.26 +	0.463	1.59	24
	25	0.553	1.64	0.487	0.179	0.556	0.393	0.136	0.305	1.33 +	0.879	0.446	1.26	25
<b>Monatsmittel</b>	26	0.507	2.02	0.482	0.179	0.543	0.345	0.124 -	0.205	1.05	0.542	0.486	1.04	26
	27	0.472	1.26	0.590	0.174	0.524	0.305	0.169	1.27	0.456	0.400	0.480	0.894	27
	28	0.463	1.22	1.31 +	0.171	0.508	0.264	0.207	5.20 +	0.328	0.323	0.464	0.777	28
	29	0.453		0.828	0.167 -	0.496	0.227 -	1.11 +	1.78	0.266	0.272	0.470	0.762	29
	30	0.450		0.671	0.235	0.795	0.241	0.382	2.19	0.227	0.222	0.447	0.950	30
	31	0.385		0.568		1.43		0.176	1.29	0.196			1.06	31
<b>Monatsmittel</b>		0.755	1.04	0.613	0.340	0.913	0.551	0.209-	0.768	0.357	0.301	0.728	1.48 +	m <sup>3</sup> /s
<b>Maximum (Spitze)</b>		3.81 01.	4.12 05.	2.15 28.	1.09 - 04.	3.83 13.	5.27 08.	3.40 29.	10.7 27.	5.22 25.	2.29 24.	6.36 16.	13.1 + 07.	m <sup>3</sup> /s Datum

**Jahresmittel** 0.671 m<sup>3</sup>/s



Periode	1978 - 2010 (33 Jahre)												
<b>Monatsmittel</b>	0.913	0.950	1.13 +	0.971	0.826	0.671	0.508	0.447-	0.449	0.569	0.682	0.953	m <sup>3</sup> /s
<b>Maximum (Spitze)</b>	13.8 1995	18.9 1999	18.2 2001	22.5 2006	27.3 + 1999	26.1 1987	22.6 1999	23.4 2007	22.6 2006	12.1 - 1990	15.9 1995	17.4 1997	m <sup>3</sup> /s Jahr
<b>Minimum (Momentanwert)</b>	0.134 2008	0.136 1986	0.160+ 1986	0.150 1997	0.122 1998	0.083 2003	0.059 2002	0.041 2003	0.024- 1985	0.032 1985	0.068 1985	0.064 1985	m <sup>3</sup> /s Jahr

**Grösstes Jahresmittel** 1.07 (2006) m<sup>3</sup>/s      **Periodenmittel** 0.755 m<sup>3</sup>/s      **Kleinstes Jahresmittel** 0.400 (2003) 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	
2010	7.34	4.69	3.56	2.79	2.04	1.42	1.22	0.894	0.777	0.651	0.570	0.499	m <sup>3</sup> /s
1978 - 2010	6.32	4.52	3.56	3.00	2.22	1.59	1.23	1.03	0.892	0.744	0.638	0.557	m <sup>3</sup> /s
Tage	182	205	228	251	274	292	310	329	347	356	362	365	
2010	0.457	0.403	0.344	0.290	0.224	0.181	0.170	0.149	0.136	0.130	0.124	0.111	m <sup>3</sup> /s
1978 - 2010	0.495	0.437	0.382	0.341	0.301	0.268	0.233	0.185	0.142	0.118	0.095	0.042	m <sup>3</sup> /s

Die Abflüsse wurden auch für die Jahre 1975 bis 1977 bestimmt.

**Wasserstand**



**Vordere Frenke - Bubendorf, Talhaus**

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Höhe Station: 371.00 m ü. M.

**Kanton Basel-Landschaft**

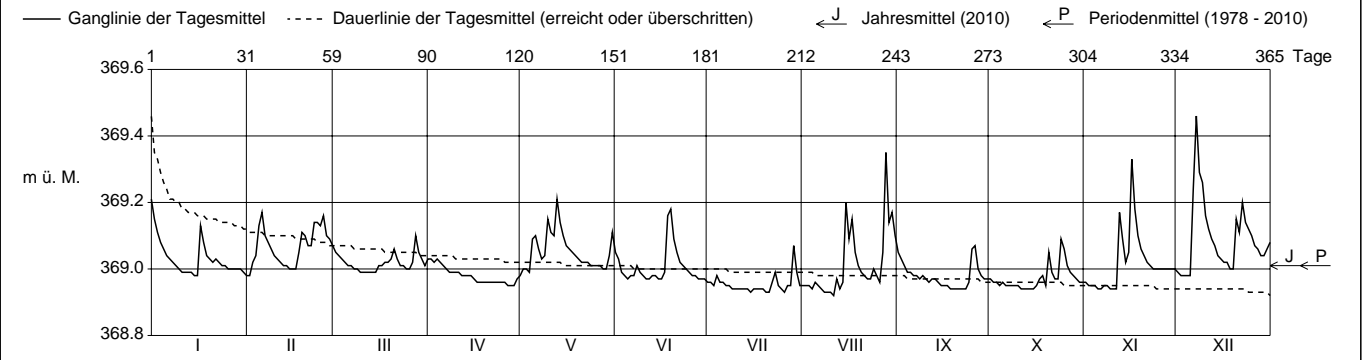
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<b>2010</b>	Januar	Februar	März	April	Mai	Juni	Juli	August	September	Oktober	November	Dezember	
<b>Tagesmittel</b>	1 369.21 +	368.98 -	369.07	369.03 +	368.98 -	369.05	368.96	368.95	369.05	368.97	368.96	368.99	1
	2 369.15	368.98 -	369.05	369.03 +	369.00	369.03	368.96	368.95	369.03	368.96	368.95	368.98 -	2
	3 369.11	369.02	369.04	369.02	369.00	368.99	368.95	368.95	369.01	368.96	368.95	368.98 -	3
	4 369.08	369.04	369.03	369.03 +	368.99	368.98	368.98	368.94	368.99	368.95	368.95	368.98 -	4
	5 369.06	369.13	369.02	369.02	369.09	368.97 -	368.96	368.96	368.99	368.96	368.94 -	368.98 -	5
	6 369.04	369.17 +	369.01	369.01	369.10	368.98	368.96	368.95	368.98	368.95	368.94 -	369.24	6
	7 369.03	369.10	369.01	369.00	369.06	368.98	368.95	368.94	368.98	368.95	368.95	369.46 +	7
	8 369.02	369.08	369.00	368.99	369.03	369.01	368.95	368.93	368.97	368.95	368.95	369.29	8
	9 369.01	369.06	369.00	368.99	369.04	368.99	368.94	368.93	368.98	368.95	368.94 -	369.26	9
	10 369.00	369.04	368.99 -	368.99	369.15	368.98	368.94	368.93	368.97	368.95	368.94 -	369.16	10
	11 368.99	369.03	368.99 -	368.99	369.11	368.97 -	368.94	368.92 -	368.96	368.94 -	368.94 -	369.12	11
	12 368.99	369.02	368.99 -	368.98	369.10	368.97 -	368.94	368.97	368.97	368.94 -	369.17	369.09	12
	13 368.99	369.01	368.99 -	368.98	369.21 +	368.98	368.94	368.94	368.97	368.94 -	369.09	369.07	13
<b>m ü. M.</b>	14 368.99	369.01	368.99 -	368.98	369.14	368.98	368.94	368.96	368.96	368.94 -	369.02	369.04	14
	15 368.98 -	369.00	368.99 -	368.98	369.10	368.97 -	368.93 -	369.20	368.95	368.94 -	369.05	369.03	15
	16 368.98 -	369.00	369.01	368.97	369.07	368.97 -	368.94	369.09	368.95	368.95	369.33 +	369.02	16
	17 369.13	369.00	369.01	368.96	369.06	368.99	368.94	369.15	368.95	368.97	369.18	369.02	17
	18 369.08	369.05	369.02	368.96	369.05	369.16	368.94	369.05	368.94 -	368.98	369.10	369.00	18
	19 369.04	369.11	369.02	368.96	369.04	369.18 +	368.94	369.01	368.94 -	368.95	369.06	369.00	19
	20 369.03	369.10	369.03	368.96	369.03	369.09	368.93 -	368.99	368.94 -	369.05	369.04	369.15	20
	21 369.02	369.07	369.06	368.96	369.02	369.05	368.93 -	368.98	368.94 -	368.99	369.02	369.11	21
	22 369.03	369.07	369.03	368.96	369.02	369.02	368.96	368.97	368.94 -	368.97	369.01	369.20	22
<b>+ Maximum</b>	23 369.02	369.14	369.01	368.96	369.02	369.01	368.99	368.97	368.94 -	368.97	369.00	369.14	23
	24 369.01	369.14	369.01	368.96	369.01	369.00	368.95	369.00	368.96	369.09 +	369.00	369.12	24
	25 369.01	369.13	369.00	368.96	369.01	368.99	368.94	368.98	369.06	369.06	369.00	369.10	25
<b>- Minimum</b>	26 369.00	369.16	369.00	368.96	369.01	368.98	368.93 -	368.96	369.07 +	369.01	369.00	369.07	26
	27 369.00	369.09	369.02	368.95 -	369.01	368.98	368.95	369.00	368.97	368.99	369.00	369.06	27
	28 369.00	369.09	369.10 +	368.95 -	369.00	368.97 -	368.95	369.35 +	368.98	368.98	369.00	369.04	28
	29 369.00	369.09	369.05	368.95 -	369.00	368.97 -	369.07 +	369.14	368.97	368.97	369.00	369.04	29
	30 369.00	369.09	369.03	368.97	369.04	368.97 -	368.99	369.17	368.97	368.96	369.00	369.06	30
	31 368.99	369.09	369.01	368.97	369.11	368.97 -	368.95	369.10	368.97	368.96	369.00	369.08	31
<b>Monatsmittel</b>	369.03	369.06	369.02	368.98	369.05	369.00	368.95 -	369.01	368.98	368.97	369.02	369.09 +	m ü. M.
<b>Maximum (Spitze)</b>	369.28 01.	369.30 05.	369.17 28.	369.08 04.	369.28 13.	369.36 08.	369.25 29.	369.62 27.	369.35 25.	369.18 24.	369.42 16.	369.71 07.	m ü. M. Datum

**Jahreswerte in m ü. M.** Mittel 369.01 Maximum 369.46 (07.12.2010) Minimum 368.92 (11.08.2010) Spitze 369.71 (07.12.2010)



<b>Periode</b>	1978 - 2010 (33 Jahre)												
<b>Monatsmittel</b>	369.04	369.04	369.06 +	369.04	369.02	369.00	368.98	368.97 -	368.97 -	368.99	369.00	369.04	m ü. M.
<b>Maximum (Spitze)</b>	369.68 1995	369.82 1999	369.81 2001	370.06 2006	370.03 1999	370.00 1987	369.92 1999	370.09 + 2007	370.06 2006	369.65 - 1990	369.74 1995	369.78 1997	m ü. M. Jahr
<b>Minimum (Momentanwert)</b>	368.93 + 1997	368.92 1986	368.92 1986	368.93 + 1997	368.92 1998	368.90 2003	368.89 - 2002	368.89 - 2003	368.89 - 1985	368.89 - 1985	368.90 1985	368.90 1985	m ü. M. Jahr

**Grösstes Jahresmittel** 369.04 (1981) m ü. M. **Periodenmittel** 369.01 m ü. M. **Kleinstes Jahresmittel** 368.97 (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	
2010	369.46	369.33	369.24	369.20	369.16	369.11	369.08	369.06	369.04	369.03	369.01	369.00	m ü. M.
1978 - 2010	369.41	369.32	369.27	369.23	369.18	369.12	369.09	369.06	369.05	369.03	369.01	369.00	m ü. M.
Tage	182	205	228	251	274	292	310	329	347	356	362	365	
2010	369.00	368.99	368.98	368.97	368.96	368.96	368.95	368.94	368.94	368.94	368.93	368.92	m ü. M.
1978 - 2010	368.99	368.98	368.97	368.97	368.96	368.95	368.94	368.94	368.93	368.92	368.91	368.89	m ü. M.