

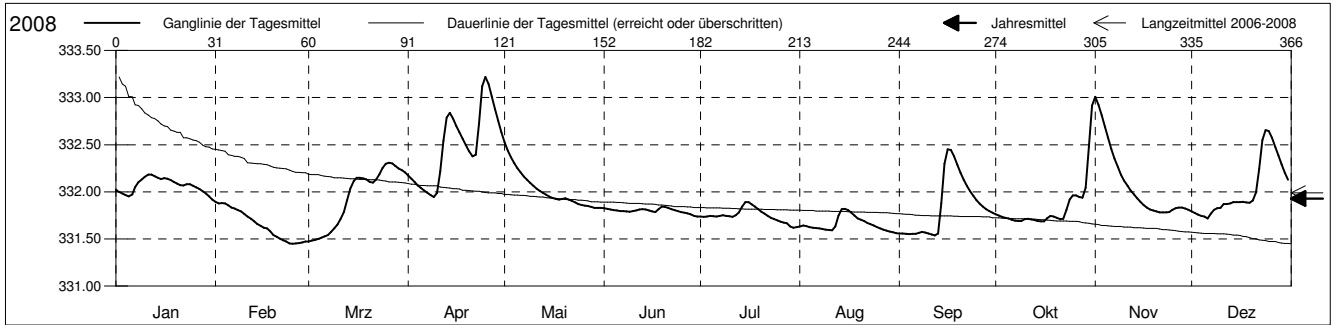
Grundwasserstände



Frenketal
 Liestal 39.J.14 Gräubern
 Abstichpunkt: 339.49 m ü.M.
 OK Terrain: 339.70 m ü.M.

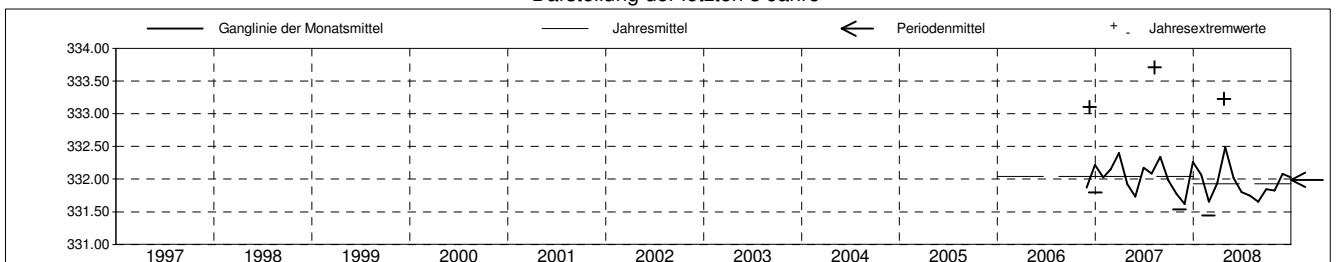
Amt für Umweltschutz und Energie
Kanton Basel-Landschaft
 Koordinaten: 622947.00 / 257940.00

2008	Januar	Februar	März	April	Mai	Juni	Juli	August	September	Oktober	November	Dezember	
1	332.02	331.90 +	331.47 -	332.17	332.53 +	331.83	331.74	331.63	331.56	331.76	333.01 +	331.79	1
2	332.00	331.88	331.48	332.14	332.44	331.82	331.74	331.64	331.56	331.75	332.92	331.77	2
3	331.98	331.88	331.49	332.10	332.37	331.81	331.74	331.64	331.55	331.73	332.82	331.76	3
4	331.97	331.88	331.50	332.07	332.31	331.80	331.75	331.63	331.55	331.72	332.69	331.74	4
5	331.95	331.86	331.51	332.04	332.25	331.80	331.74	331.62	331.56	331.72	332.57	331.74	5
Tagesmittel													
6	331.97	331.83	331.53	332.01	332.21	331.80	331.74	331.62	331.55	331.70	332.46	331.72 -	6
7	332.05	331.82	331.54	331.99	332.16	331.79	331.75	331.61	331.56	331.69	332.35	331.77	7
8	332.10	331.81	331.57	331.97	332.13	331.79	331.75	331.60	331.58	331.69	332.26	331.81	8
9	332.13	331.79	331.61	331.94 -	332.09	331.79	331.75	331.60	331.57	331.69	332.18	331.83	9
10	332.16	331.77	331.65	331.99	332.06	331.80	331.74	331.60	331.56	331.71	332.12	331.83	10
11	332.18 +	331.74	331.71	332.21	332.03	331.80	331.73	331.59	331.55	331.71	332.06	331.87	11
12	332.18 +	331.71	331.78	332.54	332.01	331.81	331.75	331.63	331.54 -	331.71	332.01	331.87	12
13	332.17	331.69	331.91	332.79	331.99	331.82	331.78	331.75	331.56	331.70	331.97	331.88	13
14	332.15	331.66	332.03	332.84	331.97	331.81	331.84	331.81	331.88	331.69	331.93	331.89	14
15	332.13	331.64	332.11	332.78	331.95	331.80	331.89 +	331.82 +	332.30	331.68 -	331.89	331.89	15
Max. +													
16	332.15	331.62	332.15	332.70	331.94	331.79	331.89 +	331.81	332.45 +	331.69	331.86	331.89	16
17	332.14	331.61	332.15	332.63	331.92	331.79	331.87	331.78	332.44	331.72	331.83	331.89	17
18	332.12	331.58	332.14	332.56	331.92	331.82	331.84	331.75	332.37	331.74	331.81	331.89	18
19	332.11	331.54	332.13	332.50	331.92	331.84 +	331.81	331.72	332.29	331.74	331.80	331.88	19
20	332.09	331.52	332.11	332.43	331.93	331.84 +	331.79	331.70	332.20	331.72	331.79	331.91	20
Min. -													
21	332.07	331.50	332.10	332.37	331.92	331.83	331.77	331.69	332.13	331.71	331.78 -	331.99	21
22	332.07	331.49	332.13	332.39	331.90	331.82	331.74	331.67	332.06	331.71	331.78 -	332.24	22
23	332.08	331.47	332.19	332.72	331.89	331.81	331.72	331.65	332.01	331.81	331.78 -	332.55	23
24	332.08	331.45 -	332.25	333.12	331.87	331.80	331.71	331.64	331.96	331.92	331.79	332.65 +	24
25	332.06	331.45 -	332.30	333.22 +	331.86	331.79	331.70	331.63	331.91	331.96	331.81	332.64	25
26	332.05	331.45 -	332.31 +	333.14	331.85	331.78	331.68	331.61	331.87	331.96	331.83	332.57	26
27	332.03	331.45 -	332.30	333.01	331.85	331.77	331.67	331.60	331.84	331.95	331.83	332.48	27
28	332.01	331.46	332.28	332.88	331.84	331.76	331.67	331.59	331.82	331.94	331.83	332.39	28
29	331.98	331.47	332.25	332.75	331.83 -	331.75	331.63	331.58	331.79	332.04	331.82	332.29	29
30	331.95		332.23	332.63	331.83 -	331.74 -	331.62 -	331.57	331.78	332.47	331.81	332.20	30
31	331.92 -		332.20	331.83 -	331.83 -		331.62 -	331.56 -		332.92 +		332.13	31
Monatsmittel	332.07	331.65 -	331.94	332.49 +	332.02	331.80	331.75	331.66	331.84	331.83	332.08	332.02	
Maximum	332.19	331.91	332.31	333.23 +	332.57	331.84	331.90	331.82 -	332.47	333.01	333.02	332.67	
Datum	11.01	01.02	26.03	25.04	01.05	19.06	15.07	14.08	16.09	31.10	01.11	24.12	
Amplitude	0.28	0.47	0.84	1.29	0.75	0.11	0.28	0.26	0.93	1.33	1.25	0.96	
Jahr 2008	Mittel	331.93 m ü.M.		Maximum	333.23 (25.Apr)			Minimum	331.44 (27.Feb)			Amplitude	1.78 m



Periode	2006 - 2008												
Monatsmittel	332.05	331.90	332.17	332.21 +	331.88	331.99	331.92	332.00	331.91	331.80 -	331.86	332.17	
Maximum	332.21 -	332.56	333.06	333.23	332.57	332.68	332.42	333.71 +	332.47	333.01	333.02	333.10	
Jahr	2007	2007	2007	2008	2008	2007	2007	2007	2008	2008	2008	2006	
Minimum	331.80 +	331.44 -	331.47	331.65	331.60	331.74	331.62	331.56	331.53	331.67	331.54	331.61	
Jahr	2007	2008	2008	2007	2007	2008	2008	2008	2008	2007	2007	2007	
Amplitude	0.41 -	0.67	1.07	1.29	0.75	0.83	0.50	1.90 +	0.93	1.33	1.25	1.30	
Jahr	2007	2007	2007	2008	2008	2007	2007	2007	2008	2008	2008	2006	
Periode	Mittel	331.99 m ü.M.		Maximum	333.71 (10.Aug 2007)			Minimum	331.44 (27.Feb 2008)			Amplitude	2.27 m

Darstellung der letzten 3 Jahre



Grundwassertemperatur



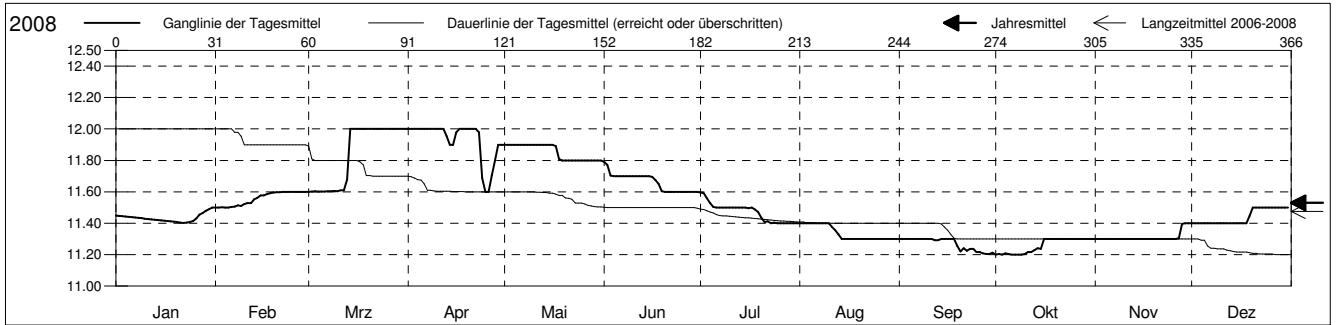
Frenketal

Liestal 39.J.14 Gräubern
 Abstichpunkt: 339.49 m ü.M.
 OK Terrain: 339.70 m ü.M.

Amt für Umweltschutz und Energie

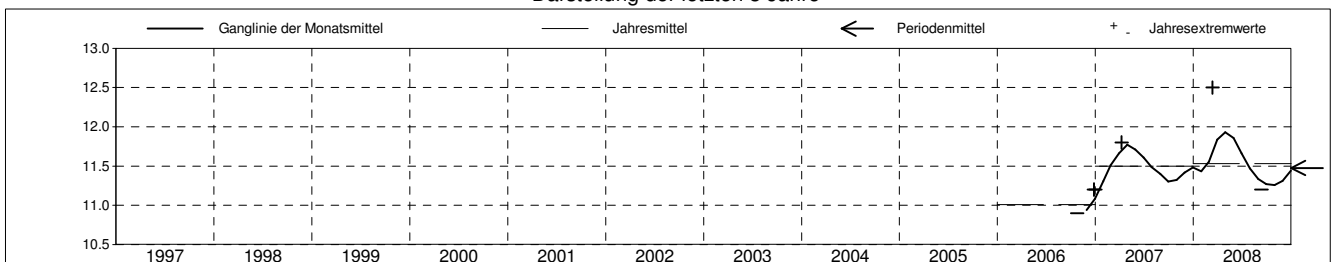
Kanton Basel-Landschaft
 Koordinaten: 622947.00 / 257940.00

2008	Januar	Februar	März	April	Mai	Juni	Juli	August	September	Oktober	November	Dezember	
1	11.4 -	11.5 -	11.6 -	12.0 +	11.9 +	11.8 +	11.6 +	11.4 +	11.3 +	11.2 -	11.3 -	11.4 -	1
2	11.4 -	11.5 -	11.6 -	12.0 +	11.9 +	11.8 +	11.6 +	11.4 +	11.3 +	11.2 -	11.3 -	11.4 -	2
3	11.4 -	11.5 -	11.6 -	12.0 +	11.9 +	11.7	11.6 +	11.4 +	11.3 +	11.2 -	11.3 -	11.4 -	3
4	11.4 -	11.5 -	11.6 -	12.0 +	11.9 +	11.7	11.5	11.4 +	11.3 +	11.2 -	11.3 -	11.4 -	4
5	11.4 -	11.5 -	11.6 -	12.0 +	11.9 +	11.7	11.5	11.4 +	11.3 +	11.2 -	11.3 -	11.4 -	5
Tagesmittel													
6	11.4 -	11.5 -	11.6 -	12.0 +	11.9 +	11.7	11.5	11.4 +	11.3 +	11.2 -	11.3 -	11.4 -	6
7	11.4 -	11.5 -	11.6 -	12.0 +	11.9 +	11.7	11.5	11.4 +	11.3 +	11.2 -	11.3 -	11.4 -	7
8	11.4 -	11.5 -	11.6 -	12.0 +	11.9 +	11.7	11.5	11.4 +	11.3 +	11.2 -	11.3 -	11.4 -	8
9	11.4 -	11.5 -	11.6 -	12.0 +	11.9 +	11.7	11.5	11.4 +	11.3 +	11.2 -	11.3 -	11.4 -	9
10	11.4 -	11.5 -	11.6 -	12.0 +	11.9 +	11.7	11.5	11.4 +	11.3 +	11.2 -	11.3 -	11.4 -	10
11	11.4 -	11.5 -	11.6 -	12.0 +	11.9 +	11.7	11.5	11.4 +	11.3 +	11.2 -	11.3 -	11.4 -	11
12	11.4 -	11.5 -	11.6 -	12.0 +	11.9 +	11.7	11.5	11.4 +	11.3 +	11.2 -	11.3 -	11.4 -	12
13	11.4 -	11.6 +	11.7	12.0 +	11.9 +	11.7	11.5	11.3	11.3 +	11.2 -	11.3 -	11.4 -	13
14	11.4 -	11.6 +	12.0 +	11.9	11.9 +	11.7	11.5	11.3	11.3 +	11.2 -	11.3 -	11.4 -	14
15	11.4 -	11.6 +	12.0 +	11.9	11.9 +	11.7	11.5	11.3	11.3 +	11.2 -	11.3 -	11.4 -	15
Max. +													
16	11.4 -	11.6 +	12.0 +	12.0 +	11.9 +	11.7	11.5	11.3	11.3 +	11.3 +	11.3 -	11.4 -	16
17	11.4 -	11.6 +	12.0 +	12.0 +	11.9 +	11.7	11.5	11.3	11.3 +	11.3 +	11.3 -	11.4 -	17
18	11.4 -	11.6 +	12.0 +	12.0 +	11.8	11.6 -	11.5	11.3	11.3 +	11.3 +	11.3 -	11.4 -	18
19	11.4 -	11.6 +	12.0 +	12.0 +	11.8	11.6 -	11.5	11.3	11.3 +	11.3 +	11.3 -	11.4 -	19
20	11.4 -	11.6 +	12.0 +	12.0 +	11.8	11.6 -	11.4	11.3	11.2 -	11.3 +	11.3 -	11.5 +	20
Min. -													
21	11.4 -	11.6 +	12.0 +	12.0 +	11.8	11.6 -	11.4	11.3	11.2 -	11.3 +	11.3 -	11.5 +	21
22	11.4 -	11.6 +	12.0 +	12.0 +	11.8	11.6 -	11.4	11.3	11.2 -	11.3 +	11.3 -	11.5 +	22
23	11.4 -	11.6 +	12.0 +	12.0 +	11.8	11.6 -	11.4	11.3	11.2 -	11.3 +	11.3 -	11.5 +	23
24	11.4 -	11.6 +	12.0 +	11.7	11.8	11.6 -	11.4	11.3	11.2 -	11.3 +	11.3 -	11.5 +	24
25	11.4 -	11.6 +	12.0 +	11.6 -	11.8	11.6 -	11.4	11.3	11.2 -	11.3 +	11.3 -	11.5 +	25
26	11.4 -	11.6 +	12.0 +	11.6 -	11.8	11.6 -	11.4	11.3	11.2 -	11.3 +	11.3 -	11.5 +	26
27	11.5 +	11.6 +	12.0 +	11.7	11.8	11.6 -	11.4	11.3	11.2 -	11.3 +	11.3 -	11.5 +	27
28	11.5 +	11.6 +	12.0 +	11.8	11.8	11.6 -	11.4	11.3	11.2 -	11.3 +	11.4 +	11.5 +	28
29	11.5 +	11.6 +	12.0 +	11.9	11.8	11.6 -	11.4	11.3	11.2 -	11.3 +	11.4 +	11.5 +	29
30	11.5 +	12.0 +	11.9	11.8	11.8	11.6 -	11.4	11.3	11.2 -	11.3 +	11.4 +	11.5 +	30
31	11.5 +	12.0 +	11.8	11.8	11.8	11.6 -	11.4	11.3	11.2 -	11.3 +	11.4 +	11.5 +	31
Monatsmittel	11.4	11.6	11.8	11.9 +	11.9 +	11.7	11.5	11.3 -	11.3 -	11.3 -	11.3 -	11.4	
Maximum	11.7	11.7	12.5 +	12.0	11.9	11.8	11.6	11.4	11.3 -	11.3 -	11.4	11.5	
Datum	30.01	03.02	13.03	01.04	01.05	01.06	01.07	01.08	01.09	02.10	27.11	19.12	
Minimum	11.3	11.4	11.6	11.6	11.8 +	11.6	11.4	11.3	11.2 -	11.2 -	11.3	11.4	
Datum	26.01	01.02	01.03	24.04	17.05	16.06	16.07	11.08	12.09	01.10	01.11	01.12	
Amplitude	0.4	0.3	0.9	0.4	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	
Jahr 2008	Mittel	11.5 °C		Maximum	12.5 (13.Mrz)		Minimum	11.2 (12.Sep)			Amplitude	1.3 °C	



Periode	2006 - 2008												
Monatsmittel	11.4	11.5	11.7	11.9 +	11.8	11.6	11.5	11.4	11.3	11.3	11.2 -	11.3	
Maximum	11.7	11.7	12.5 +	12.0	11.9	11.8	11.6	11.4 -	11.4 -	11.4 -	11.5	11.5	
Jahr	2008	2008	2008	2008	2008	2008	2008	2007	2007	2007	2007	2007	
Minimum	11.2	11.4	11.6	11.6	11.7 +	11.5	11.4	11.3	11.2	10.9 -	10.9 -	11.0	
Jahr	2007	2007	2007	2008	2007	2007	2007	2008	2008	2006	2006	2006	
Amplitude	0.4	0.3	0.9 +	0.4	0.1 -	0.2	0.2	0.1 -	0.1 -	0.1 -	0.1 -	0.2	
Jahr	2008	2008	2008	2008	2007	2007	2008	2008	2008	2008	2006	2006	
Periode	Mittel	11.5 °C		Maximum	12.5 (13.Mrz 2008)		Minimum	10.9 (25.Okt 2006)			Amplitude	1.6 °C	

Darstellung der letzten 3 Jahre



Grundwasserspiegel im Frenketal

Station 39.J.14 Liestal

Opm 214843

Gräubern

Koordinaten: 622'947 / 257'940

Messwerte: **Grundwasserspiegel**
Temperatur (ab Okt. 2006)

OK. Abstich
339.49 m ü.M.
OK. Terrain
339.70 m ü.M.

