

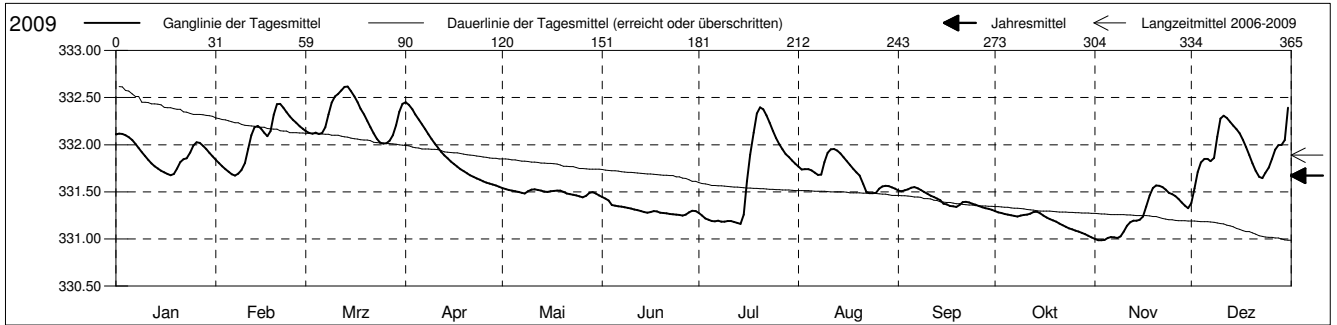
Grundwasserstände



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

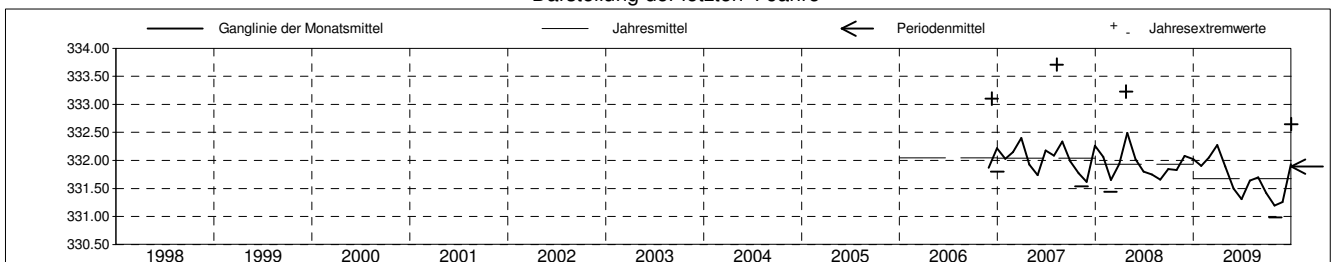
Amt für Umweltschutz und Energie
Kanton Basel-Landschaft
 Koordinaten: 622947.00 / 257940.00

2009	Januar	Februar	März	April	Mai	Juni	Juli	August	September	Oktober	November	Dezember	
1	332.11	331.84	332.15	332.45 +	331.54 +	331.44 +	331.28	331.77	331.51	331.30 +	331.00	331.38 -	1
2	332.12 +	331.81	332.12	332.42	331.53	331.43	331.25	331.74	331.51	331.28	330.99 -	331.54	2
3	332.11	331.77	332.12	332.38	331.52	331.41	331.22	331.74	331.52	331.27	330.99 -	331.71	3
4	332.10	331.74	332.13	332.32	331.51	331.36	331.20	331.74	331.53	331.27	330.99 -	331.81	4
5	332.08	331.71	332.11	332.27	331.51	331.35	331.19	331.72	331.54	331.26	331.01	331.85	5
Tagesmittel													
6	332.05	331.69	332.12	332.22	331.50	331.35	331.19	331.70	331.55 +	331.25	331.02	331.85	6
7	332.01	331.67 -	332.19	332.16	331.49	331.34	331.19	331.68	331.54	331.24	331.01	331.83	7
8	331.97	331.69	332.32	332.11	331.48	331.34	331.18	331.68	331.52	331.24	331.01	331.86	8
9	331.92	331.73	332.45	332.06	331.51	331.33	331.18	331.82	331.50	331.25	331.03	332.09	9
10	331.88	331.80	332.51	332.01	331.52	331.32	331.19	331.91	331.48	331.25	331.08	332.28	10
11	331.84	331.95	332.54	331.97	331.53	331.31	331.19	331.95	331.46	331.26	331.14	332.31	11
12	331.80	332.10	332.58	331.92	331.52	331.30	331.18	331.96 +	331.44	331.27	331.18	332.28	12
13	331.77	332.18	332.61	331.89	331.51	331.30	331.17	331.94	331.43	331.28	331.19	332.24	13
14	331.75	332.20	332.62 +	331.85	331.50	331.29	331.16 -	331.91	331.41	331.29	331.20	332.20	14
15	331.72	332.17	332.57	331.82	331.50	331.28	331.26	331.87	331.38	331.27	331.20	332.17	15
Max. +													
16	331.71	332.13	332.51	331.79	331.51	331.28	331.61	331.83	331.37	331.25	331.24	332.12	16
17	331.69	332.09	332.45	331.77	331.51	331.30	331.89	331.78	331.35	331.23	331.34	332.05	17
18	331.68 -	332.14	332.38	331.74	331.51	331.29	332.13	331.74	331.34	331.21	331.46	331.98	18
19	331.69	332.32	332.32	331.72	331.51	331.28	332.33	331.71	331.34	331.20	331.54	331.89	19
20	331.75	332.43 +	332.25	331.70	331.50	331.27	332.40 +	331.67	331.36	331.18	331.57 +	331.80	20
Min. -													
21	331.82	332.43 +	332.19	331.68	331.48	331.27	332.37	331.59	331.39	331.16	331.56	331.72	21
22	331.84	332.39	332.12	331.66	331.47	331.26	332.31	331.50	331.39	331.15	331.55	331.66	22
23	331.86	332.34	332.06	331.64	331.47	331.26	332.23	331.49 -	331.39	331.13	331.52	331.65	23
24	331.92	332.30	332.02	331.63	331.46	331.26	332.15	331.49 -	331.38	331.11	331.49	331.70	24
25	331.99	332.27	332.01 -	331.61	331.45	331.25 -	332.07	331.49 -	331.36	331.10	331.48	331.76	25
26	332.03	332.23	332.02	331.60	331.44 -	331.25 -	332.01	331.53	331.35	331.09	331.46	331.85	26
27	332.02	332.20	332.04	331.59	331.46	331.26	331.95	331.56	331.34	331.08	331.43	331.95	27
28	331.99	332.17	332.10	331.58	331.49	331.28	331.90	331.56	331.33	331.07	331.39	332.00	28
29	331.95		332.21	331.57	331.49	331.30	331.87	331.56	331.32	331.05	331.35	332.00	29
30	331.91		332.35	331.55 -	331.48	331.29	331.83	331.55	331.31 -	331.03	331.33	332.05	30
31	331.88		332.43		331.46		331.80	331.53		331.02 -		332.39 +	31
Monatsmittel	331.90	332.05	332.28 +	331.89	331.50	331.31	331.64	331.70	331.42	331.19 -	331.26	331.93	
Maximum	332.12	332.44	332.62	332.46	331.55	331.45	332.40	331.96	331.55	331.30 -	331.57	332.65 +	
Datum	02.01	21.02	14.03	01.04	01.05	01.06	20.07	12.08	06.09	01.10	20.11	31.12	
Amplitude	0.45	0.77	0.61	0.91	0.11	0.21	1.25	0.48	0.25	0.30	0.59	1.31	
Jahr 2009	Mittel	331.67 m ü.M.		Maximum	332.65 (31.Dez)		Minimum	330.98 (02.Nov)		Amplitude	1.66 m		



Periode	2006 - 2009												
Monatsmittel	332.00	331.95	332.21 +	332.10	331.75	331.76	331.82	331.90	331.75	331.60 -	331.71	332.11	
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	331.67 +	331.44	331.47	331.55	331.44	331.25	331.15	331.48	331.30	331.01	330.98 -	331.34	
Jahr	2009	2008	2008	2009	2009	2009	2009	2009	2009	2009	2009	2009	
Amplitude	0.45 -	0.77	1.07	1.29	0.75	0.83	1.25	1.90 +	0.93	1.33	1.25	1.31	
Jahr	2009	2009	2007	2008	2008	2007	2009	2007	2008	2008	2008	2010	
Periode	Mittel	331.89 m ü.M.		Maximum	333.71 (10.Aug 2007)		Minimum	330.98 (02.Nov 2009)		Amplitude	2.72 m		

Darstellung der letzten 4 Jahre



Grundwassertemperatur



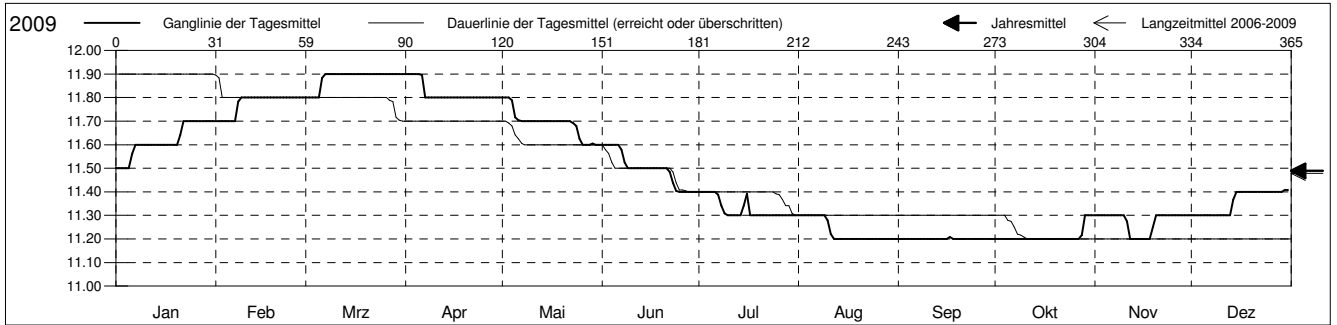
Frenketal

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

Amt für Umweltschutz und Energie

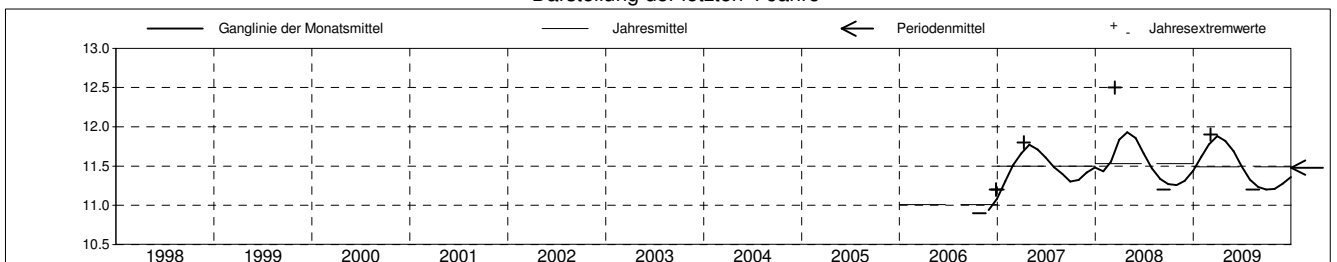
Kanton Basel-Landschaft
 Koordinaten: 622947.00 / 257940.00

2009	Januar	Februar	März	April	Mai	Juni	Juli	August	September	Oktober	November	Dezember	
1	11.5 -	11.7 -	11.8 -	11.9 +	11.8 +	11.6 +	11.4 +	11.3 +	11.2 +	11.2 -	11.3 +	11.3 -	1
2	11.5 -	11.7 -	11.8 -	11.9 +	11.8 +	11.6 +	11.4 +	11.3 +	11.2 +	11.2 -	11.3 +	11.3 -	2
3	11.5 -	11.7 -	11.8 -	11.9 +	11.8 +	11.6 +	11.4 +	11.3 +	11.2 +	11.2 -	11.3 +	11.3 -	3
4	11.5 -	11.7 -	11.8 -	11.9 +	11.8 +	11.6 +	11.4 +	11.3 +	11.2 +	11.2 -	11.3 +	11.3 -	4
5	11.5 -	11.7 -	11.8 -	11.9 +	11.7	11.6 +	11.4 +	11.3 +	11.2 +	11.2 -	11.3 +	11.3 -	5
Tagesmittel													
6	11.6	11.7 -	11.9 +	11.9 +	11.7	11.6 +	11.4 +	11.3 +	11.2 +	11.2 -	11.3 +	11.3 -	6
7	11.6	11.7 -	11.9 +	11.8 -	11.7	11.6 +	11.4 +	11.3 +	11.2 +	11.2 -	11.3 +	11.3 -	7
8	11.6	11.8 +	11.9 +	11.8 -	11.7	11.5	11.3 -	11.3 +	11.2 +	11.2 -	11.3 +	11.3 -	8
9	11.6	11.8 +	11.9 +	11.8 -	11.7	11.5	11.3 -	11.3 +	11.2 +	11.2 -	11.3 +	11.3 -	9
10	11.6	11.8 +	11.9 +	11.8 -	11.7	11.5	11.3 -	11.3 +	11.2 +	11.2 -	11.3 +	11.3 -	10
11	11.6	11.8 +	11.9 +	11.8 -	11.7	11.5	11.3 -	11.2 -	11.2 +	11.2 -	11.3 +	11.3 -	11
12	11.6	11.8 +	11.9 +	11.8 -	11.7	11.5	11.3 -	11.2 -	11.2 +	11.2 -	11.2 -	11.3 -	12
13	11.6	11.8 +	11.9 +	11.8 -	11.7	11.5	11.3 -	11.2 -	11.2 +	11.2 -	11.2 -	11.3 -	13
14	11.6	11.8 +	11.9 +	11.8 -	11.7	11.5	11.3 -	11.2 -	11.2 +	11.2 -	11.2 -	11.4 +	14
15	11.6	11.8 +	11.9 +	11.8 -	11.7	11.5	11.3 -	11.2 -	11.2 +	11.2 -	11.2 -	11.4 +	15
Max. +													
16	11.6	11.8 +	11.9 +	11.8 -	11.7	11.5	11.4 +	11.2 -	11.2 +	11.2 -	11.2 -	11.4 +	16
17	11.6	11.8 +	11.9 +	11.8 -	11.7	11.5	11.3 -	11.2 -	11.2 +	11.2 -	11.2 -	11.4 +	17
18	11.6	11.8 +	11.9 +	11.8 -	11.7	11.5	11.3 -	11.2 -	11.2 +	11.2 -	11.2 -	11.4 +	18
19	11.6	11.8 +	11.9 +	11.8 -	11.7	11.5	11.3 -	11.2 -	11.2 +	11.2 -	11.3 +	11.4 +	19
20	11.6	11.8 +	11.9 +	11.8 -	11.7	11.5	11.3 -	11.2 -	11.2 +	11.2 -	11.3 +	11.4 +	20
Min. -													
21	11.6	11.8 +	11.9 +	11.8 -	11.7	11.5	11.3 -	11.2 -	11.2 +	11.2 -	11.3 +	11.4 +	21
22	11.7 +	11.8 +	11.9 +	11.8 -	11.7	11.5	11.3 -	11.2 -	11.2 +	11.2 -	11.3 +	11.4 +	22
23	11.7 +	11.8 +	11.9 +	11.8 -	11.7	11.4 -	11.3 -	11.2 -	11.2 +	11.2 -	11.3 +	11.4 +	23
24	11.7 +	11.8 +	11.9 +	11.8 -	11.7	11.4 -	11.3 -	11.2 -	11.2 +	11.2 -	11.3 +	11.4 +	24
25	11.7 +	11.8 +	11.9 +	11.8 -	11.6 -	11.4 -	11.3 -	11.2 -	11.2 +	11.2 -	11.3 +	11.4 +	25
26	11.7 +	11.8 +	11.9 +	11.8 -	11.6 -	11.4 -	11.3 -	11.2 -	11.2 +	11.2 -	11.3 +	11.4 +	26
27	11.7 +	11.8 +	11.9 +	11.8 -	11.6 -	11.4 -	11.3 -	11.2 -	11.2 +	11.2 -	11.3 +	11.4 +	27
28	11.7 +	11.8 +	11.9 +	11.8 -	11.6 -	11.4 -	11.3 -	11.2 -	11.2 +	11.2 -	11.3 +	11.4 +	28
29	11.7 +		11.9 +	11.8 -	11.6 -	11.4 -	11.3 -	11.2 -	11.2 +	11.3 +	11.3 +	11.4 +	29
30	11.7 +		11.9 +	11.8 -	11.6 -	11.4 -	11.3 -	11.2 -	11.2 +	11.3 +	11.3 +	11.4 +	30
31	11.7 +		11.9 +		11.6 -		11.3 -	11.2 -		11.3 +		11.4 +	31
Monatsmittel	11.6	11.8	11.9 +	11.8	11.7	11.5	11.3	11.2 -	11.2 -	11.2 -	11.3	11.4	
Maximum	11.7	11.8	11.9 +	11.9 +	11.8	11.6	11.4	11.3 -	11.4	11.3 -	11.3 -	11.5	
Datum	21.01	08.02	06.03	01.04	01.05	01.06	01.07	01.08	17.09	28.10	01.11	30.12	
Minimum	11.5	11.7	11.8 +	11.8 +	11.6	11.4	11.3	11.2 -	11.2 -	11.2 -	11.2 -	11.3	
Datum	01.01	01.02	01.03	06.04	23.05	22.06	07.07	10.08	01.09	01.10	11.11	01.12	
Amplitude	0.2	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.2	0.1	0.1	0.2	
Jahr 2009	Mittel	11.5 °C		Maximum	11.9 (06.Mrz)		Minimum	11.2 (10.Aug)		Amplitude	0.7 °C		



Periode	2006 - 2009												
Monatsmittel	11.5	11.6	11.8 +	11.8 +	11.8 +	11.6	11.4	11.3	11.3	11.3	11.2 -	11.3	
Maximum	11.7	11.8	12.5 +	12.0	11.9	11.8	11.6	11.4 -	11.4 -	11.4 -	11.5	11.5	
Jahr	2008	2009	2008	2008	2008	2008	2008	2007	2007	2007	2007	2007	
Minimum	11.2	11.4	11.6 +	11.6 +	11.6 +	11.4	11.3	11.2	11.2	10.9 -	10.9 -	11.0	
Jahr	2007	2007	2007	2008	2009	2009	2009	2009	2008	2006	2006	2006	
Amplitude	0.4	0.3	0.9 +	0.4	0.2	0.2	0.2	0.1 -	0.2	0.1 -	0.1 -	0.2	
Jahr	2008	2008	2008	2008	2009	2009	2008	2009	2009	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 4 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.

