

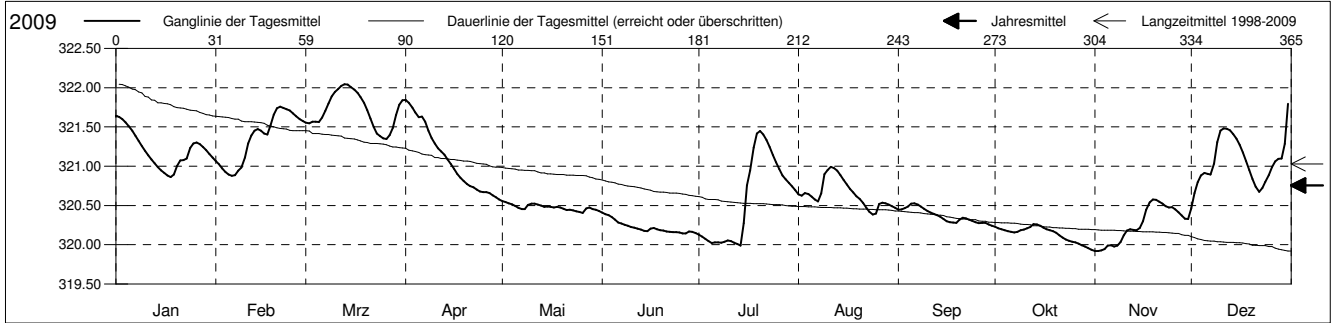
Grundwasserstände



Frenketal  
 Liestal 39.H.7 Hanro  
 Abstichpunkt: 327.73 m ü.M.  
 OK Terrain: 327.40 m ü.M.

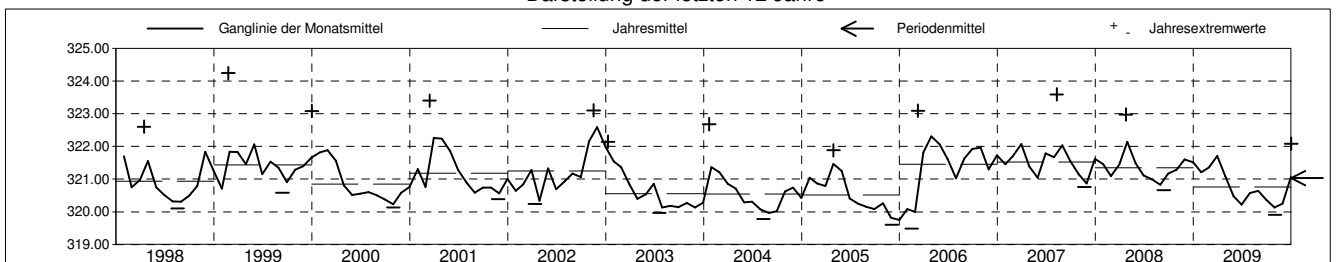
Amt für Umweltschutz und Energie  
 Kanton Basel-Landschaft  
 Koordinaten: 622759.25 / 258254.75

2009	Januar	Februar	März	April	Mai	Juni	Juli	August	September	Oktober	November	Dezember	
1	321.64 +	321.07	321.56	321.84 +	320.56 +	320.41 +	320.13	320.64	320.45	320.23	319.92 -	320.47 -	1
2	321.63	321.02	321.55	321.81	320.54	320.39	320.10	320.62	320.45	320.21	319.92 -	320.66	2
3	321.60	320.97	321.57	321.75	320.53	320.38	320.07	320.66	320.47	320.20	319.93	320.80	3
4	321.56	320.93	321.57	321.68	320.51	320.35	320.05	320.65	320.49	320.19	319.95	320.88	4
5	321.51	320.89	321.56	321.63	320.49	320.32	320.02	320.61	320.52	320.17	319.99	320.91	5
Tagesmittel													
6	321.45	320.88 -	321.62	321.63	320.47	320.28	320.03	320.58	320.53 +	320.16	319.99	320.90	6
7	321.39	320.89	321.70	321.57	320.46	320.27	320.03	320.55	320.51	320.16	319.98	320.89	7
8	321.32	320.94	321.80	321.45	320.45	320.26	320.03	320.65	320.49	320.17	319.99	321.03	8
9	321.26	320.99	321.89	321.36	320.51	320.24	320.04	320.90	320.46	320.19	320.03	321.31	9
10	321.20	321.11	321.95	321.29	320.52	320.23	320.05	320.95	320.43	320.19	320.12	321.46	10
11	321.14	321.29	321.98	321.23	320.52	320.22	320.05	320.99 +	320.41	320.21	320.18	321.48	11
12	321.09	321.39	322.02	321.19	320.51	320.20	320.03	320.98	320.39	320.23	320.20	321.48	12
13	321.04	321.45	322.04 +	321.15	320.50	320.19	320.01	320.94	320.37	320.26 +	320.19	321.46	13
14	320.99	321.47	322.04 +	321.09	320.48	320.18	319.99 -	320.89	320.35	320.26 +	320.19	321.41	14
15	320.95	321.45	322.01	321.03	320.49	320.17	320.28	320.83	320.33	320.24	320.21	321.35	15
Max. +													
16	320.91	321.42	321.97	320.97	320.48	320.21	320.76	320.77	320.30	320.22	320.30	321.27	16
17	320.88	321.40	321.93	320.90	320.48	320.22	320.95	320.71	320.29	320.20	320.44	321.18	17
18	320.86 -	321.52	321.88	320.85	320.48	320.20	321.24	320.66	320.28	320.19	320.54	321.07	18
19	320.89	321.65	321.81	320.81	320.48	320.19	321.41	320.62	320.28	320.17	320.58 +	320.95	19
20	321.00	321.74	321.71	320.77	320.46	320.18	321.45 +	320.58	320.32	320.15	320.57	320.84	20
Min. -													
21	321.07	321.76 +	321.61	320.75	320.44	320.17	321.41	320.53	320.35	320.12	320.55	320.74	21
22	321.08	321.74	321.50	320.73	320.45	320.16	321.33	320.47	320.34	320.09	320.52	320.68	22
23	321.10	321.73	321.42	320.70	320.44	320.16	321.25	320.42	320.32	320.07	320.49	320.72	23
24	321.23	321.71	321.39	320.68	320.43	320.16	321.14	320.39 -	320.30	320.05	320.47	320.80	24
25	321.29	321.67	321.36	320.67	320.42	320.16	321.05	320.40	320.29	320.04	320.48	320.89	25
26	321.30	321.64	321.35 -	320.67	320.41 -	320.14 -	320.96	320.52	320.27	320.03	320.45	320.99	26
27	321.28	321.60	321.40	320.66	320.46	320.14 -	320.88	320.53	320.28	320.01	320.41	321.06	27
28	321.25	321.58	321.49	320.63	320.47	320.17	320.83	320.53	320.28	319.99	320.37	321.09	28
29	321.20		321.65	320.60	320.45	320.17	320.79	320.51	320.26	319.98	320.33	321.10	29
30	321.15		321.78	320.58 -	320.45	320.15	320.74	320.49	320.24 -	319.96	320.33	321.29	30
31	321.11		321.84		320.43		320.69	320.47		319.94 -		321.80 +	31
Monatsmittel	321.21	321.35	321.71 +	321.09	320.48	320.22	320.57	320.65	320.37	320.14 -	320.25	321.06	
Maximum Datum	01.01	21.02	12.03	01.04	01.05	01.06	20.07	11.08	06.09	13.10	19.11	31.12	
Amplitude	0.79	0.89	0.71	1.29	0.17	0.29	1.47	0.64	0.29	0.34	0.67	1.70	
Jahr 2009	Mittel	320.76 m ü.M.		Maximum	322.08 (31.Dez)		Minimum	319.91 (02.Nov)		Amplitude	2.17 m		



Periode	1998 - 2009												
Monatsmittel	321.19	321.14	321.45 +	321.32	321.14	320.87	320.75	320.78	320.74 -	320.91	320.97	321.09	
Maximum Jahr	323.08	324.24 +	323.40	323.07	323.90	322.52 -	322.54	323.59	323.00	323.00	323.10	323.12	
Jahr	2000	1999	2001	2001	1999	2007	1999	2007	2006	2006	2002	1999	
Minimum Jahr	319.79	319.48 -	320.32 +	320.24	320.11	320.07	319.97	319.78	319.95	319.91	319.62	319.60	
Jahr	2006	2006	2006	2002	2004	2004	2003	2004	2004	2004	2005	2005	
Amplitude Jahr	2.61	3.37 +	2.98	1.99	2.73	1.83	1.64 -	2.39	1.88	2.25	1.76	2.23	
Jahr	2004	1999	2001	1998	1999	2003	1999	2007	2006	2004	2004	1999	
Periode	Mittel	321.03 m ü.M.		Maximum	324.24 (23.Feb 1999)		Minimum	319.48 (15.Feb 2006)		Amplitude	4.76 m		

Darstellung der letzten 12 Jahre



**Grundwassertemperatur**



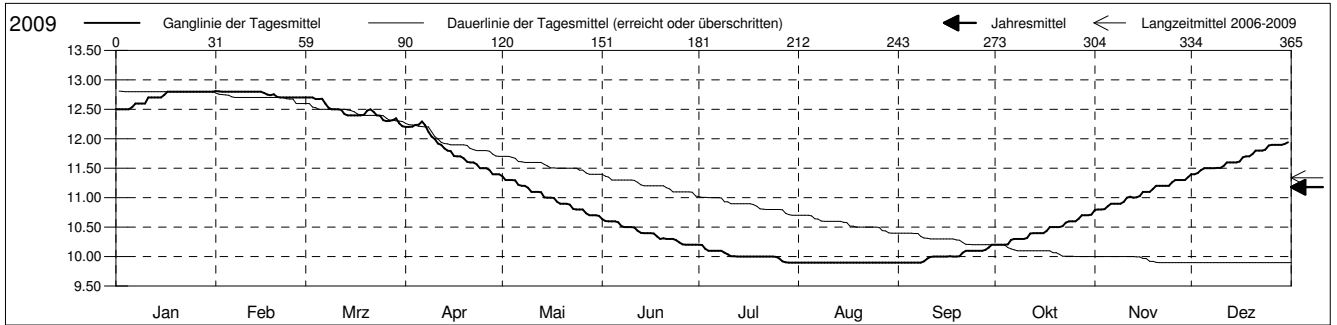
Frenketal

Liestal 39.H.7 Hanro  
 Abstichpunkt: 327.73 m ü.M.  
 OK Terrain: 327.40 m ü.M.

**Amt für Umweltschutz und Energie**

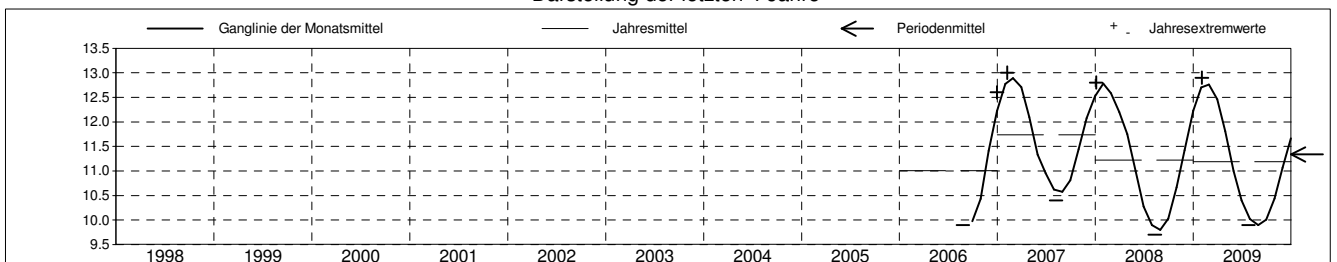
**Kanton Basel-Landschaft**  
 Koordinaten: 622759.25 / 258254.75

2009	Januar	Februar	März	April	Mai	Juni	Juli	August	September	Oktober	November	Dezember	
1	12.5 -	12.8 +	12.7 +	12.2	11.4 +	10.6 +	10.2 +	9.9 +	9.9 -	10.2 -	10.8 -	11.4 -	1
2	12.5 -	12.8 +	12.7 +	12.2	11.3	10.6 +	10.2 +	9.9 +	9.9 -	10.2 -	10.8 -	11.4 -	2
3	12.5 -	12.8 +	12.7 +	12.2	11.3	10.6 +	10.1	9.9 +	9.9 -	10.2 -	10.8 -	11.4 -	3
4	12.5 -	12.8 +	12.7 +	12.2	11.3	10.6 +	10.1	9.9 +	9.9 -	10.2 -	10.8 -	11.5	4
5	12.5 -	12.8 +	12.7 +	12.2	11.3	10.6 +	10.1	9.9 +	9.9 -	10.2 -	10.9	11.5	5
Tagesmittel													
6	12.5 -	12.8 +	12.7 +	12.3 +	11.2	10.6 +	10.1	9.9 +	9.9 -	10.3	10.9	11.5	6
7	12.6	12.8 +	12.6	12.2	11.2	10.5	10.1	9.9 +	9.9 -	10.3	10.9	11.5	7
8	12.6	12.8 +	12.5	12.1	11.2	10.5	10.1	9.9 +	9.9 -	10.3	10.9	11.5	8
9	12.6	12.8 +	12.5	12.0	11.2	10.5	10.1	9.9 +	9.9 -	10.3	10.9	11.5	9
10	12.6	12.8 +	12.5	12.0	11.1	10.5	10.0	9.9 +	10.0	10.3	10.9	11.5	10
11	12.7	12.8 +	12.5	11.9	11.1	10.5	10.0	9.9 +	10.0	10.3	11.0	11.5	11
12	12.7	12.8 +	12.5	11.9	11.1	10.4	10.0	9.9 +	10.0	10.4	11.0	11.6	12
13	12.7	12.8 +	12.4	11.8	11.1	10.4	10.0	9.9 +	10.0	10.4	11.0	11.6	13
14	12.7	12.8 +	12.4	11.8	11.0	10.4	10.0	9.9 +	10.0	10.4	11.0	11.6	14
15	12.7	12.8 +	12.4	11.8	11.0	10.4	10.0	9.9 +	10.0	10.4	11.0	11.6	15
Max. +													
16	12.7	12.8 +	12.4	11.7	11.0	10.4	10.0	9.9 +	10.0	10.4	11.1	11.6	16
17	12.8 +	12.8 +	12.4	11.7	11.0	10.4	10.0	9.9 +	10.0	10.4	11.1	11.7	17
18	12.8 +	12.7 -	12.4	11.7	10.9	10.3	10.0	9.9 +	10.0	10.5	11.1	11.7	18
19	12.8 +	12.8 +	12.4	11.7	10.9	10.3	10.0	9.9 +	10.0	10.5	11.1	11.7	19
20	12.8 +	12.7 -	12.5	11.6	10.9	10.3	10.0	9.9 +	10.0	10.5	11.2	11.7	20
Min. -													
21	12.8 +	12.7 -	12.5	11.6	10.9	10.3	10.0	9.9 +	10.1	10.5	11.2	11.8	21
22	12.8 +	12.7 -	12.5	11.6	10.9	10.3	10.0	9.9 +	10.1	10.5	11.2	11.8	22
23	12.8 +	12.7 -	12.4	11.6	10.8	10.3	10.0	9.9 +	10.1	10.6	11.2	11.8	23
24	12.8 +	12.7 -	12.4	11.5	10.8	10.3	10.0	9.9 +	10.1	10.6	11.2	11.8	24
25	12.8 +	12.7 -	12.3	11.5	10.8	10.2 -	10.0	9.9 +	10.1	10.6	11.3	11.9 +	25
26	12.8 +	12.7 -	12.3	11.5	10.8	10.2 -	10.0	9.9 +	10.1	10.6	11.3	11.9 +	26
27	12.8 +	12.7 -	12.3	11.5	10.7 -	10.2 -	9.9 -	9.9 +	10.1	10.6	11.3	11.9 +	27
28	12.8 +	12.7 -	12.3	11.4 -	10.7 -	10.2 -	9.9 -	9.9 +	10.1	10.7 +	11.3	11.9 +	28
29	12.8 +		12.4	11.4 -	10.7 -	10.2 -	9.9 -	9.9 +	10.2 +	10.7 +	11.3	11.9 +	29
30	12.8 +		12.3	11.4 -	10.7 -	10.2 -	9.9 -	9.9 +	10.2 +	10.7 +	11.4 +	11.9 +	30
31	12.8 +		12.2 -		10.7 -		9.9 -	9.9 +		10.7 +		11.9 +	31
Monatsmittel	12.7	12.8 +	12.5	11.8	11.0	10.4	10.0	9.9 -	10.0	10.4	11.1	11.7	
Maximum	12.8	12.9 +	12.7	12.3	11.4	10.7	10.2	9.9 -	10.2	10.8	11.4	12.0	
Datum	16.01	01.02	01.03	03.04	01.05	01.06	01.07	01.08	17.09	31.10	12.11	30.12	
Minimum	12.5	12.7 +	12.2	11.4	10.6	10.2	9.9 -	9.9 -	9.9 -	10.2	10.7	11.4	
Datum	01.01	16.02	30.03	27.04	31.05	24.06	25.07	01.08	01.09	01.10	01.11	01.12	
Amplitude	0.3	0.2	0.5	0.9	0.8	0.5	0.3	0.0 +	0.3	0.6	0.7	0.6	
Jahr 2009	Mittel	11.2 °C		Maximum	12.9 (01.Feb)		Minimum	9.9 (25.Jul)		Amplitude	3.0 °C		



Periode	2006 - 2009												
Monatsmittel	12.8 +	12.7	12.5	11.9	11.1	10.5	10.2	10.1 -	10.2	10.7	11.5	12.2	
Maximum	12.9	13.0 +	12.9	12.5	11.6	11.1	10.8 -	11.0	11.1	11.8	12.4	12.7	
Jahr	2007	2007	2007	2007	2007	2007	2007	2007	2007	2007	2007	2007	
Minimum	12.5 +	12.4	12.0	11.3	10.5	10.0	9.8	9.7 -	9.8	10.1	10.7	11.4	
Jahr	2009	2008	2008	2008	2008	2008	2008	2008	2008	2006	2009	2009	
Amplitude	0.3 -	0.4	0.5	0.9	1.0	0.5	0.3 -	0.6	0.5	0.8	1.1 +	0.7	
Jahr	2009	2008	2009	2009	2008	2008	2007	2007	2007	2008	2006	2006	
Periode	Mittel	11.3 °C		Maximum	13.0 (06.Feb 2007)		Minimum	9.7 (10.Aug 2008)		Amplitude	3.3 °C		

Darstellung der letzten 4 Jahre



# Grundwasserspiegel im Frenketal

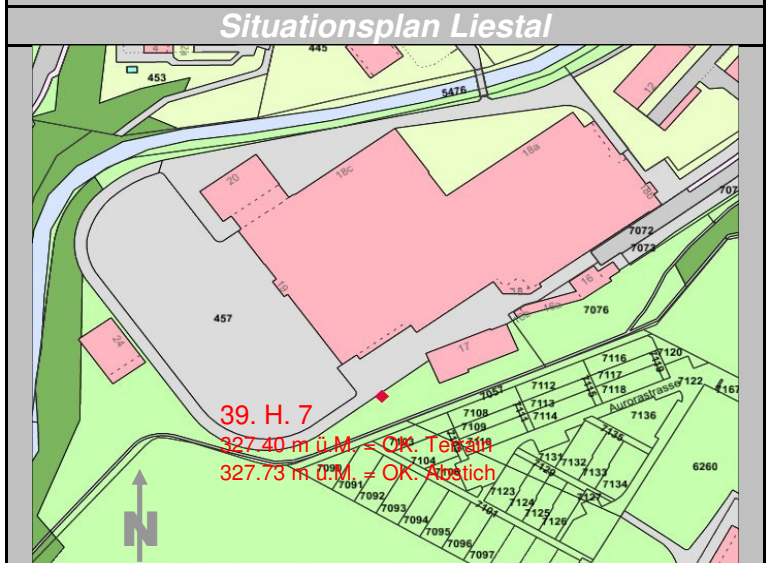
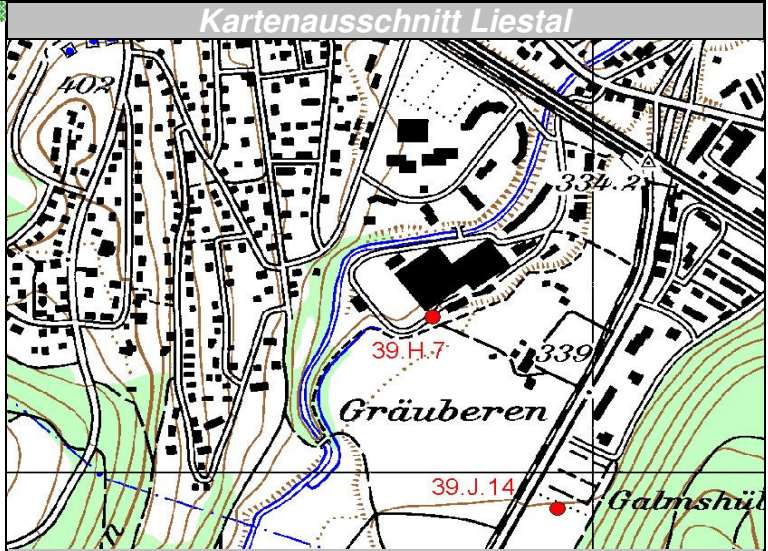
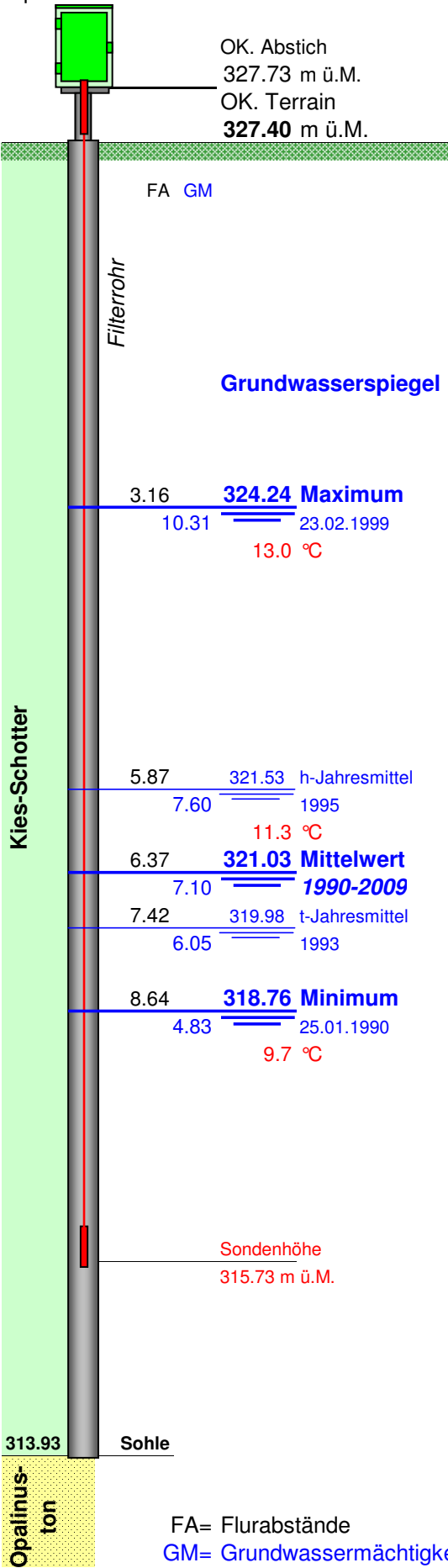
Station 39.H.7  
Opm 213415

Liestal

Hanro

Koordinaten: 622'759.24 / 258'254.75

Messwerte: **Grundwasserspiegel**  
**Temperatur (ab August 2006)**



FA= Flurabstände  
GM= Grundwassermächtigkeit in m