

A_{Eo} : 330.49 km²
 PNP : NHN+ 129.31 m
 Lage : 1.18 km oberhalb der Mündung rechts



Pegel : Nordborchen Nr. 2782890000100
 Gewässer: Altenau
 Gebiet : Lippe

m³/s

Tag	2008		2009																			
	Nov	Dez	Jan	Feb	Mrz	Apr	Mai	Jun	Jul	Aug	Sep	Okt	Nov	Dez								
1.	0.580	1.08	1.05	1.11	9.58	3.81	1.39	0.691	0.604	0.757	0.497	0.462	0.653	1.48								
2.	0.559	0.983	1.00	1.08	7.71	3.55	1.31	0.673	0.569	0.760	0.495	0.437	0.906	1.41								
3.	0.548	0.909	0.939	1.05	6.84	3.30	1.28	0.668	0.556	0.747	0.501	0.426	0.918	1.37								
4.	0.538	0.815	0.923	1.01	6.08	3.07	1.24	0.666	0.552	0.702	0.500	0.428	1.10	1.32								
5.	0.534	0.852	0.889	1.01	5.45	2.88	1.21	0.658	0.554	0.678	0.550	0.416	1.15	1.26								
6.	0.528	1.14	0.809	0.977	5.99	2.75	1.30	0.685	0.592	0.667	0.504	0.492	1.09	1.28								
7.	0.521	1.23	0.790	1.03	9.18	2.63	1.20	0.734	0.595	0.652	0.500	0.549	1.04	1.27								
8.	0.513	1.21	0.776	1.11	7.75	2.51	1.19	0.663	0.633	0.641	0.500	0.695	0.980	1.26								
9.	0.533	1.20	0.749	1.09	6.85	2.44	1.16	0.691	0.640	0.638	0.492	0.618	1.03	1.20								
10.	0.517	1.15	0.761	1.44	7.27	2.35	1.11	0.657	0.669	0.647	0.493	0.828	2.45	1.64								
11.	0.522	1.10	0.759	2.71	10.5	2.25	1.07	0.713	0.663	0.642	0.493	1.06	4.24	5.71								
12.	0.498	1.02	0.756	1.93	8.89	2.18	1.03	0.671	0.667	0.653	0.487	0.997	3.50	4.56								
13.	0.506	0.964	0.698	1.80	9.72	2.12	0.994	0.619	0.632	0.645	0.509	0.950	2.65	3.42								
14.	0.501	0.926	0.640	1.68	7.88	2.07	0.980	0.604	0.602	0.589	0.519	0.889	2.24	2.84								
15.	0.500	0.887	0.578	1.54	7.32	2.01	1.05	0.613	0.659	0.585	0.527	0.852	2.06	2.47								
16.	0.500	0.928	0.552	1.80	7.86	1.96	1.27	0.723	0.596	0.577	0.668	0.896	1.87	2.19								
17.	0.492	0.996	0.550	7.04	6.80	1.98	1.05	0.724	0.605	0.568	0.547	1.12	1.74	2.01								
18.	0.500	1.03	0.631	6.61	6.08	1.92	0.969	0.633	0.596	0.556	0.527	1.11	1.63	1.87								
19.	0.515	1.03	0.771	4.53	5.58	1.84	0.934	0.600	0.657	0.549	0.524	1.03	1.56	1.71								
20.	0.605	1.12	0.877	3.87	5.08	1.78	0.918	0.581	0.687	0.541	0.517	0.976	1.47	1.60								
21.	0.930	1.15	0.786	5.36	4.69	1.73	0.876	0.578	0.748	0.531	0.507	0.949	1.40	1.54								
22.	0.938	1.23	0.746	9.20	4.36	1.69	0.869	0.583	0.909	0.527	0.499	0.895	1.34	1.54								
23.	0.887	1.25	0.932	17.1	4.22	1.66	0.839	0.580	0.802	0.513	0.491	0.843	1.54	1.46								
24.	0.892	1.19	2.04	14.7	4.64	1.62	0.830	0.581	0.957	0.502	0.488	0.808	1.99	1.40								
25.	0.884	1.11	1.73	9.52	4.41	1.58	0.801	0.582	0.997	0.527	0.470	0.802	1.96	1.57								
26.	0.955	1.08	1.35	7.83	5.37	1.53	0.790	0.587	1.00	0.558	0.471	0.762	1.86	1.73								
27.	1.26	1.09	1.22	9.39	6.06	1.50	0.772	0.596	0.911	0.516	0.468	0.745	1.82	1.72								
28.	1.24	1.09	1.24	11.7	5.67	1.64	0.759	0.601	0.856	0.503	0.466	0.717	1.72	1.68								
29.	1.19	1.12	1.27		5.07	1.48	0.745	0.594	0.810	0.484	0.469	0.688	1.65	1.66								
30.	1.12	1.08	1.20		4.53	1.44	0.718	0.600	0.804	0.492	0.478	0.664	1.58	2.15								
31.		1.06	1.15		4.10		0.709		0.773	0.494		0.646		4.01								
Tag NQ	0.492	0.815	17.	6.	31.	30.	31.	21.	4.	29.	28.	5.	1.	9.								
Tag MQ	0.693	1.07	0.938	4.61	6.50	2.17	1.01	0.638	0.706	0.595	0.505	0.766	1.70	2.01								
Tag HQ	2.73	2.91	4.53	17.8	11.6	4.12	3.10	2.38	4.79	2.12	1.37	2.64	5.53	7.57								
Tag	9.	29.	24.	23.+	11.	9.	6.	11.	21.	10.+	9.	8.	11.	11.								
h _N mm	68	46	39	129	105	31	55	69	150	30	69	109	115	98								
h _A mm	5	9	8	34	53	17	8	5	6	5	4	6	13	16								
		1969/2008		1970/2009 40 Kalenderjahre																		
Jahr	1976	1976	1977	1996	1972	1996	1996	1977	1973	1973	1976	1991	1976	1976								
NQ	0.155	0.262	0.276	0.530	0.663	0.487	0.513	0.487	0.325	0.300	0.312	0.262	0.155	0.262								
MNQ	0.907	1.39	1.69	1.92	1.96	1.76	1.25	1.01	0.842	0.760	0.701	0.722	0.910	1.40								
MQ	1.79	2.76	3.50	3.55	4.01	2.72	1.76	1.35	1.16	1.03	0.983	1.15	1.81	2.79								
MHQ	5.57	9.70	10.2	10.1	10.5	6.20	4.68	4.46	4.00	3.36	2.93	3.69	5.65	9.85								
HQ	25.2	38.4	29.7	29.0	26.9	18.5	14.5	28.6	17.0	25.6	19.7	17.5	25.2	38.4								
Jahr	1998	1988	1982	1970	1994	1994	1978+	1981	1981	2007	1998	1998	1998	1988								
Mh _N mm	81	86	79	65	78	61	75	83	90	81	76	70	82	87								
Mh _A mm	14	22	28	26	32	21	14	11	9	8	8	9	14	23								
		Abflussjahr (*) 2009				Kalenderjahr 2009				Unterschnittene Abflüsse m ³ /s												
		Jahr		Datum		Winter		Sommer		Jahr		Datum		1970/2009 40 Kalenderjahre								
						Obere Hüllkurve		Mittlere Werte		Untere Hüllkurve												
NQ	m ³ /s	0.416 am 05.10.2009		0.492		0.416		0.416		am 05.10.2009		17.1			28.3		15.3		4.26			
MQ	m ³ /s	1.67		2.65		0.705		1.83				14.7			22.3		13.4		3.71			
HQ	m ³ /s	17.8 am 23.02.2009 bei W = 143 cm		17.8		4.79		17.8		am 23.02.2009 bei W = 143 cm		11.7			21.4		12.0		3.54			
Nq	l/(skm ²)	1.26		1.49		1.26		1.26				9.72			19.8		10.3		3.40			
Mq	l/(skm ²)	5.04		8.00		2.13		5.54				9.58			18.4		9.60		2.76			
Hq	l/(skm ²)	53.8		53.8		14.5		53.8				9.52			18.1		9.28		2.72			
h _N	mm	900		418		482		999				9.39			18.1		8.97		2.66			
h _A	mm	159		125		34		175				9.20			17.8		8.61		2.55			
		1970/2009 (*) 40 Jahre				1970/2009				Dauertabelle												
NQ	m ³ /s	0.155 am 21.11.1976		0.155		0.262		0.155		am 21.11.1976		0.957			1.11		3.24		1.61		0.678	
MNQ	m ³ /s	0.489		0.766		0.593		0.581				0.852			0.976		2.77		1.38		0.616	
MQ	m ³ /s	2.14		3.06		1.24		2.15				0.745			0.801		2.44		1.16		0.566	
MHQ	m ³ /s	19.0		18.0		8.00		19.3				0.669			0.745		2.30		1.07		0.531	
HQ	m ³ /s	38.4 am 19.12.1988 bei W = 231 cm		38.4		28.6		38.4		am 19.12.1988 bei W = 231 cm		0.657			0.695		2.25		1.02		0.499	
HQ ₁	m ³ /s											0.640			0.668		2.18		0.975		0.451	
HQ ₅	m ³ /s											0.605			0.657		2.14		0.937		0.391	
												0.596			0.640		2.13		0.904		0.379	
												0.581			0.605		2.04		0.862		0.371	
												0.558			0.595		2.01		0.827		0.364	
												0.548			0.580		1.97		0.798		0.347	
												0.527			0.554		1.93		0.772		0.338	
												0.513			0.527		1.88		0.745		0.314	
												0.500			0.504		1.75		0.712		0.287	
												0.499			0.500		1.70		0.693		0.281	
												0.493			0.494		1.63		0.674		0.276	
												0.492			0.492		1.58		0.656		0.263	
												0.478			0.478		1.45		0.636		0.240	
												0.471			0.471		1.43		0.632		0.238	
												0.470			0.470		1.42		0.628		0.235	
												0.469			0.469		1.39		0.623		0.222	
												0.468			0.468		1.38		0.619		0.205	
												0.466			0.466		1.37		0.615		0.202	
												0.462			0.462		1.36		0.611		0.193	
												0.437			0.437		1.35		0.607		0.189	
												0.428			0.428		1.33		0.599		0.174	
												0.426			0.426		1.33		0.593		0.174	
												0.416			0.416		1.31		0.581		0.155	

(*) Abflussjahr: 1.11. des Vorjahres bis 31.10. durch Hochwasserrückhaltebecken und Versickerung beeinflusst, Krautpegel