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

Q m³/s

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

Tageswerte

Tag	2007 Nov	2007 Dez	2008 Jan	Feb	Mrz	Apr	Mai	Jun	Jul	Aug	Sep	Okt	Nov	Dez
1.	1.86	4.47	2.21	5.13	3.93	2.84	1.88	1.29	0.817	0.695	0.597	0.797	0.580	1.08
2.	1.86	4.43	2.08	4.84	8.32	3.26	1.84	1.17	0.811	0.691	0.599	0.721	0.559	0.983
3.	1.97	5.48	2.01	4.47	8.18	3.79	1.79	1.14	0.959	0.692	0.659	0.684	0.548	0.909
4.	2.10	6.29	1.95	4.22	5.82	3.68	1.74	1.54	0.887	0.768	0.612	0.657	0.538	0.815
5.	2.07	5.18	1.91	3.95	4.71	3.84	1.71	1.31	0.819	0.702	0.604	0.625	0.534	0.852
6.	2.44	5.75	1.89	4.40	4.24	5.01	1.68	1.15	0.807	0.698	0.684	0.649	0.528	1.14
7.	2.79	9.05	1.92	5.23	3.93	4.56	1.65	1.11	0.802	0.696	0.615	0.617	0.521	1.23
8.	3.56	8.70	1.96	4.38	3.62	4.93	1.62	1.08	0.811	0.709	0.604	0.614	0.513	1.21
9.	6.30	7.54	1.97	4.00	3.27	4.38	1.60	1.05	0.825	0.690	0.601	0.635	0.533	1.20
10.	9.32	6.85	2.01	3.72	3.06	4.01	1.56	0.997	0.787	0.694	0.597	0.600	0.517	1.15
11.	16.3	7.85	1.97	3.51	2.90	3.72	1.53	0.955	0.815	0.683	0.596	0.583	0.522	1.10
12.	18.0	7.22	1.95	3.32	3.00	3.45	1.51	1.01	0.784	0.711	0.589	0.561	0.498	1.02
13.	18.8	6.44	1.87	3.14	3.00	3.25	1.48	1.22	0.756	0.706	0.590	0.552	0.506	0.964
14.	15.9	5.97	1.84	2.97	2.71	3.32	1.47	1.02	0.745	0.668	0.580	0.534	0.501	0.926
15.	12.7	5.57	1.86	2.82	2.52	3.73	1.51	1.01	0.727	0.663	0.579	0.503	0.500	0.887
16.	10.3	5.17	1.75	2.65	2.54	3.31	1.54	0.981	0.807	0.658	0.567	0.557	0.500	0.928
17.	9.33	4.82	1.75	2.53	2.98	3.07	1.55	0.911	0.755	0.648	0.561	0.559	0.492	0.996
18.	8.42	4.49	1.82	2.43	2.79	2.86	1.49	0.886	0.746	0.644	0.588	0.548	0.500	1.03
19.	7.13	4.18	2.04	2.34	3.00	2.68	1.47	0.908	0.801	0.656	0.619	0.580	0.515	1.03
20.	6.51	3.92	6.65	2.24	3.58	2.54	1.43	0.908	0.799	0.626	0.632	0.544	0.605	1.12
21.	5.96	3.71	6.00	2.17	5.53	2.44	1.40	0.877	0.771	0.616	0.664	0.538	0.930	1.15
22.	5.47	3.50	8.79	2.12	6.54	2.35	1.34	0.929	0.769	0.721	0.675	0.510	0.938	1.23
23.	5.05	3.32	7.00	2.07	5.48	2.26	1.28	0.918	0.745	0.751	0.688	0.484	0.887	1.25
24.	4.60	3.15	5.69	2.00	4.83	2.20	1.27	0.885	0.712	0.713	0.668	0.474	0.892	1.19
25.	4.53	2.95	5.83	2.00	4.45	2.28	1.23	0.890	0.704	0.671	0.593	0.472	0.884	1.11
26.	4.72	2.76	5.18	1.93	4.19	2.17	1.22	0.870	0.699	0.649	0.611	0.460	0.955	1.08
27.	4.72	2.59	6.58	1.89	4.11	2.08	1.20	0.853	0.693	0.626	0.614	0.615	1.26	1.09
28.	4.40	2.46	7.20	1.80	3.86	2.10	1.18	0.847	0.700	0.622	0.627	0.586	1.24	1.09
29.	4.08	2.36	6.07	1.77	3.65	2.06	1.16	0.837	0.691	0.617	0.640	0.552	1.19	1.12
30.	4.00	2.28	5.50		3.34	1.96	1.20	0.825	0.688	0.607	0.671	0.568	1.12	1.08
31.		2.36	5.24		3.01		1.41		0.695	0.602		0.592		1.06

Hauptwerte

Tag	2.+	30.	16.+	29.	15.	30.	29.	30.	30.	31.	17.	26.	17.	4.
NQ	1.86	2.28	1.75	1.77	2.52	1.96	1.16	0.825	0.688	0.602	0.561	0.460	0.492	0.815
MQ	6.84	4.86	3.63	3.10	4.10	3.14	1.48	1.01	0.772	0.674	0.618	0.580	0.693	1.07
HQ	21.1	10.9	10.8	6.60	13.2	6.26	3.63	2.79	2.55	1.55	1.06	2.65	2.73	2.91
Tag	12.	7.	22.	7.	2.	9.	9.	6.	31.	22.	25.	19.	9.	29.
h_N mm	153	67	97	46	97	72	40	103	86	87	51	54	68	46
h_A mm	54	39	29	24	33	25	12	8	6	5	5	5	5	9

	1969/2007		1970/2008 39 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	0.917	1.41	1.72	1.94	1.91	1.77	1.26	1.02	0.849	0.767	0.707	0.730	0.917	1.41
MQ	1.82	2.81	3.57	3.52	3.95	2.73	1.78	1.37	1.17	1.04	0.996	1.16	1.81	2.81
MHQ	5.65	9.88	10.4	9.94	10.4	6.25	4.72	4.51	3.98	3.39	2.96	3.72	5.65	9.91
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	87	80	64	77	62	75	84	88	82	76	69	81	87
Mh_A mm	14	23	29	26	32	21	14	11	9	8	8	9	14	23

	Abflussjahr (*) 2008 Jahr	Datum	Winter	Sommer	Kalenderjahr 2008 Jahr	Datum
NQ m³/s	0.460	am 26.10.2008	1.75	0.460	0.460	am 26.10.2008
MQ m³/s	2.56		4.28	0.857	1.74	
HQ m³/s	21.1	am 12.11.2007 bei W = 168 cm	21.1	3.63	13.2	am 02.03.2008 bei W = 118 cm
Nq l/(skm²)	1.39		5.28	1.39	1.39	
Mq l/(skm²)	7.75		13.0	2.59	5.25	
Hq l/(skm²)	63.7		63.7	11.0	40.1	
h_N mm	953		532	421	847	
h_A mm	245		204	41	166	

	1970/2008 (*) 39 Jahre				1970/2008	
NQ m³/s	0.155	am 21.11.1976	0.155	0.262	0.155	am 21.11.1976
MNQ m³/s	0.491		0.773	0.598	0.586	
MQ m³/s	2.15		3.07	1.25	2.15	
MHQ m³/s	19.0		18.0	8.08	19.4	
HQ m³/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
HQ_1 m³/s						
HQ_5 m³/s						
MNq l/(skm²)	1.49		2.34	1.81	1.77	
Mq l/(skm²)	6.52		9.28	3.79	6.51	
MHq l/(skm²)	57.4		54.3	24.4	58.6	
Mh_N mm	925		451	474	925	
Mh_A mm	206		145	60	206	

Dauertabelle

Unterschreitungsdauer in Tagen	Unterschrittene Abflüsse m³/s: Abflussjahr (*) 2008	Kalenderjahr 2008	1970/2008 39 Kalenderjahre Obere Hüllkurve	Mittlere Werte	Untere Hüllkurve
364	18.8	8.79	28.3	15.2	4.26
363	18.0	8.32	22.3	13.4	3.71
362	16.3	8.18	21.4	12.1	3.54
361	15.9	7.20	20.7	10.9	3.47
360	12.7	7.00	19.8	10.3	3.40
359	10.3	6.65	18.4	9.60	2.76
358	9.33	6.58	18.1	9.28	2.72
357	9.33	6.54	18.1	8.95	2.66
356	9.05	6.08	17.8	8.60	2.55
350	7.85	5.50	14.5	7.16	2.04
340	6.51	4.72	11.3	5.53	1.73
330	5.75	4.12	8.99	4.65	1.67
320	5.18	3.72	7.89	4.03	1.60
300	4.43	3.00	6.08	3.19	1.44
270	3.51	2.08	4.75	2.45	1.19
240	2.68	1.74	3.92	1.98	0.816
210	2.06	1.23	3.24	1.63	0.678
183	1.79	1.08	2.77	1.39	0.616
150	1.20	0.886	2.44	1.17	0.566
130	0.908	0.801	2.30	1.08	0.531
120	0.825	0.751	2.25	1.03	0.499
110	0.801	0.709	2.18	0.983	0.451
100	0.751	0.694	2.14	0.944	0.391
90	0.709	0.683	2.13	0.911	0.379
80	0.694	0.657	2.04	0.869	0.371
70	0.683	0.626	2.01	0.833	0.364
60	0.657	0.614	1.97	0.804	0.347
50	0.626	0.600	1.93	0.778	0.338
40	0.614	0.586	1.88	0.750	0.314
30	0.599	0.559	1.75	0.717	0.287
25	0.592	0.548	1.70	0.698	0.281
20	0.583	0.534	1.63	0.679	0.276
15	0.567	0.521	1.58	0.661	0.263
10	0.552	0.506	1.45	0.640	0.240
9	0.552	0.503	1.43	0.636	0.238
8	0.548	0.501	1.42	0.632	0.235
7	0.544	0.500	1.39	0.627	0.222
6	0.538	0.500	1.38	0.623	0.205
5	0.534	0.500	1.37	0.619	0.202
4	0.510	0.498	1.36	0.615	0.193
3	0.503	0.492	1.35	0.611	0.189
2	0.484	0.484	1.33	0.604	0.174
1	0.474	0.474	1.33	0.597	0.174
0	0.460	0.460	1.31	0.586	0.155

Extremwerte

	Niedrigwasser (n) m³/s	l/(skm²)	Datum	Hochwasser m³/s	l/(skm²)	cm	Datum
1	0.155	0.468	21.11.1976	38.4	116	231	19.12.1988
2	0.251	0.758	07.11.1973	31.6	95.7	216	04.12.1981
3	0.261	0.789	02.11.1991	30.2	91.4	200	30.12.1986
4	0.297	0.898	05.11.1977	29.7	89.7	206	31.01.1982
5	0.385	1.17	11.08.2001	29.0	87.8	188	23.02.1970
6	0.386	1.17	13.11.1983	28.6	86.6	201	30.06.1981
7	0.420	1.27	23.10.1990	26.9	81.3	186	15.03.1994
8	0.420	1.27	23.07.1996	25.6	77.6	191	22.08.2007
9	0.427	1.29	08.10.1974	25.4	76.8	184	08.12.1974
10	0.459	1.39	30.08.1982	25.2	76.4	181	01.11.1998

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

LANUV NRW