A_{Eo} : 98.73 km²
PNP : NHN+ 84.53 m
Lage : 348.79 km oberhalb der Mündung rechts

Q
m³/s

Pegel : Steinhorst Nr. 3113000000100
Gewässer : Ems
Gebiet : Obere Ems

Tageswerte

Tag	2011 Nov	2011 Dez	2012 Jan	Feb	Mrz	Apr	Mai	Jun	Jul	Aug	Sep	Okt	Nov	Dez
1.	0.553	0.754	1.61	1.15	1.39	0.925	0.636	0.614	0.676	0.691	0.399	0.669	0.690	0.679
2.	0.707	0.685	2.01	1.08	1.31	0.886	0.641	0.563	0.639	0.631	0.388	0.843	0.697	0.717
3.	0.823	0.765	1.97	1.02	1.26	0.883	0.671	0.599	0.610	0.619	0.383	0.625	0.703	0.741
4.	0.715	0.872	1.89	0.989	1.25	0.878	0.640	0.712	0.551	0.608	0.360	0.968	0.739	0.808
5.	0.615	0.890	2.47	0.955	1.33	0.874	0.642	0.825	0.508	0.553	0.349	1.24	0.747	0.882
6.	0.633	0.901	2.70	0.908	1.27	0.870	0.660	0.747	0.482	0.599	0.338	1.19	0.716	0.842
7.	0.843	1.06	2.65	0.855	1.19	0.866	0.657	0.755	0.475	0.592	0.304	1.11	0.747	0.798
8.	0.703	1.07	2.67	0.869	1.41	0.862	0.627	0.665	0.537	0.568	0.323	0.972	0.762	0.729
9.	0.548	1.13	2.41	0.855	1.33	0.846	0.600	0.601	0.586	0.570	0.341	0.888	0.736	0.799
10.	0.471	1.06	2.16	0.820	1.23	0.910	0.611	0.553	0.536	0.546	0.353	0.840	0.729	1.20
11.	0.383	0.996	1.84	0.820	1.21	0.901	0.766	0.529	0.592	0.539	0.374	0.806	0.796	1.16
12.	0.441	1.05	1.78	0.821	1.16	0.874	0.746	0.603	0.701	0.518	0.448	0.794	0.729	1.07
13.	0.520	1.18	1.89	0.835	1.14	0.860	0.690	0.641	0.795	0.503	0.448	0.810	0.692	1.02
14.	0.582	1.26	1.70	0.889	1.10	0.880	0.646	0.586	0.897	0.488	0.453	0.776	0.666	0.988
15.	0.632	1.28	1.53	1.03	1.09	0.816	0.649	0.551	0.878	0.460	0.470	0.774	0.625	1.29
16.	0.649	1.53	1.41	0.983	1.05	0.745	0.678	0.581	0.874	0.475	0.487	0.741	0.609	1.35
17.	0.654	1.99	1.31	1.03	1.05	0.730	0.657	0.562	1.45	0.491	0.501	0.713	0.610	1.35
18.	0.649	1.77	1.27	1.09	1.05	0.726	0.608	0.519	1.60	0.467	0.528	0.677	0.608	1.32
19.	0.653	1.60	2.01	1.20	1.06	0.741	0.576	0.513	1.08	0.433	0.534	0.650	0.736	1.54
20.	0.658	1.57	2.66	1.20	1.02	0.781	0.548	0.548	0.981	0.420	0.538	0.614	0.621	1.44
21.	0.663	1.86	2.46	1.15	0.989	0.758	0.534	0.616	0.810	0.404	0.533	0.592	0.587	1.36
22.	0.667	1.76	2.66	1.15	0.934	0.766	0.521	0.607	0.720	0.396	0.526	0.741	0.586	1.44
23.	0.672	1.91	2.57	1.22	0.928	0.755	0.497	0.559	0.666	0.394	0.499	0.589	0.601	2.49
24.	0.676	1.92	2.24	1.38	0.923	0.740	0.479	0.561	0.626	0.391	0.488	0.586	0.682	3.15
25.	0.688	1.92	1.90	1.59	0.912	0.712	0.462	0.672	0.589	0.413	0.522	0.585	0.706	2.43
26.	0.731	1.61	1.68	1.49	0.914	0.697	0.445	0.649	0.562	0.421	0.679	0.595	0.654	2.12
27.	0.735	1.46	1.60	1.41	0.875	0.693	0.432	0.630	0.547	0.456	0.826	0.592	0.712	2.26
28.	0.740	1.35	1.48	1.39	0.881	0.721	0.431	0.657	0.693	0.444	0.744	0.572	0.682	2.44
29.	0.721	1.29	1.39	1.44	0.853	0.691	0.429	0.660	0.698	0.431	0.615	0.587	0.676	2.00
30.	0.731	1.68	1.31		0.930	0.672	0.428	0.761	0.696	0.479	0.568	0.710	0.688	1.81
31.		1.59	1.23		0.948		0.462		0.703	0.461		0.719		1.67

Hauptwerte

	2011 Nov	2011 Dez	2012 Jan	Feb	Mrz	Apr	Mai	Jun	Jul	Aug	Sep	Okt	Nov	Dez
Tag	11.	2.	31.	10.+	29.	30.	30.	19.	7.	24.	7.	28.	22.	1.
NQ	0.383	0.685	1.23	0.820	0.853	0.672	0.428	0.513	0.475	0.391	0.304	0.572	0.586	0.679
MQ	0.649	1.35	1.95	1.09	1.10	0.802	0.583	0.621	0.734	0.499	0.477	0.760	0.684	1.42
HQ	1.39	2.17	2.99	1.64	1.46	0.957	0.828	0.898	2.67	0.710	1.02	1.76	1.07	3.48
Tag	7.	17.+	5.	25.	8.	10.	11.	5.	18.	4.	28.	22.	19.	23.
h_N mm														
h_A mm	17	37	53	28	30	21	16	16	20	14	13	21	18	38

	1974/2011		1975/2012 38 Kalenderjahre											
Jahr	2011	1999	2007	1996	2001	1997	1976	1986	1976	1976	1976	1976	2011	1999
NQ	0.383	0.391	0.417	0.598	0.340	0.516	0.394	0.311	0.093	0.099	0.165	0.348	0.383	0.391
MNQ	0.784	0.895	1.01	1.02	0.987	0.823	0.657	0.546	0.463	0.449	0.534	0.664	0.773	0.872
MQ	1.16	1.37	1.56	1.41	1.43	1.13	0.938	0.786	0.705	0.712	0.798	0.910	1.14	1.34
MHQ	2.47	2.83	3.17	2.67	2.86	2.00	1.86	1.67	1.74	1.72	1.81	1.86	2.43	2.82
HQ	5.29	5.06	7.09	5.06	6.24	4.65	5.26	5.20	6.00	5.09	5.68	5.09	5.29	5.06
Jahr	1998	1988	1982	1984	1987	1986	1984	1981	1981	2005	2007	1993	1998	1988
Mh_N mm														
Mh_A mm	31	37	42	35	39	30	25	21	19	19	21	25	30	36

	Abflussjahr (*) 2012 Jahr	Datum	Winter	Sommer	Kalenderjahr 2012 Jahr	Datum
NQ m³/s	0.304	am 07.09.2012	0.383	0.304	0.304	am 07.09.2012
MQ m³/s	0.886		1.16	0.613	0.894	
HQ m³/s	2.99	am 05.01.2012 bei W = 83.0 cm	2.99	2.67	3.48	am 23.12.2012 bei W = 89.0 cm
Nq l/(skm²)	3.08		3.88	3.08	3.08	
Mq l/(skm²)	8.97		11.8	6.21	9.06	
Hq l/(skm²)	30.3		30.3	27.0	35.2	
h_N mm						
h_A mm	284		185	99	286	

	1975/2012 (*) 38 Jahre				1975/2012	
NQ m³/s	0.093	am 13.07.1976	0.339	0.093	0.093	am 13.07.1976
MNQ m³/s	0.368		0.664	0.373	0.366	
MQ m³/s	1.07		1.34	0.808	1.07	
MHQ m³/s	4.51		4.20	3.13	4.48	
HQ m³/s	7.09	am 31.01.1982 bei W = 132 cm	7.09	6.00	7.09	am 31.01.1982 bei W = 132 cm
HQ_1 m³/s						
HQ_5 m³/s						
MNq l/(skm²)	3.73		6.73	3.78	3.71	
Mq l/(skm²)	10.9		13.6	8.19	10.8	
MHq l/(skm²)	45.7		42.5	31.7	45.4	
Mh_N mm						
Mh_A mm	343		213	130	342	

Dauertabelle

Unterschreitungsdauer in Tagen	Unterschrittene Abflüsse m³/s: Abflussjahr (*) 2012	Kalenderjahr 2012	1975/2012 38 Kalenderjahre Obere Hüllkurve	Mittlere Werte	Untere Hüllkurve
364	2.70	3.15	5.66	3.75	2.43
363	2.67	2.70	5.16	3.38	2.19
362	2.66	2.67	5.05	3.22	2.06
361	2.66	2.66	4.91	3.05	2.03
360	2.65	2.66	4.81	2.87	2.03
359	2.57	2.65	4.25	2.73	1.96
358	2.47	2.57	4.14	2.63	1.89
357	2.46	2.49	3.90	2.53	1.85
356	2.41	2.47	3.82	2.46	1.75
350	1.97	2.24	3.09	2.17	1.56
340	1.77	1.84	2.60	1.91	1.37
330	1.59	1.54	2.31	1.74	1.24
320	1.41	1.41	2.12	1.62	1.18
300	1.24	1.23	1.89	1.45	1.10
270	1.03	1.02	1.66	1.27	0.898
240	0.881	0.875	1.43	1.14	0.835
210	0.810	0.795	1.32	1.03	0.751
183	0.730	0.729	1.22	0.950	0.665
150	0.671	0.679	1.16	0.863	0.555
130	0.642	0.649	1.13	0.812	0.492
120	0.627	0.627	1.10	0.789	0.472
110	0.610	0.611	1.08	0.763	0.438
100	0.592	0.601	1.06	0.742	0.414
90	0.585	0.589	1.05	0.720	0.396
80	0.562	0.572	1.04	0.698	0.384
70	0.548	0.553	1.01	0.676	0.373
60	0.529	0.536	0.990	0.646	0.320
50	0.503	0.518	0.964	0.615	0.277
40	0.479	0.487	0.928	0.583	0.240
30	0.456	0.461	0.886	0.548	0.180
25	0.444	0.448	0.814	0.528	0.165
20	0.431	0.431	0.739	0.506	0.148
15	0.413	0.420	0.688	0.481	0.135
10	0.391	0.394	0.671	0.452	0.126
9	0.388	0.391	0.662	0.447	0.123
8	0.383	0.388	0.662	0.443	0.120
7	0.383	0.383	0.646	0.438	0.119
6	0.374	0.374	0.642	0.433	0.115
5	0.360	0.360	0.637	0.427	0.111
4	0.353	0.353	0.636	0.419	0.108
3	0.349	0.349	0.633	0.413	0.107
2	0.341	0.341	0.631	0.405	0.106
1	0.338	0.338	0.625	0.395	0.105
0	0.304	0.304	0.606	0.366	0.093

Extremwerte

	Niedrigwasser (n) m³/s	l/(skm²)	Datum	Hochwasser m³/s	l/(skm²)	cm	Datum
1	0.093	0.942	13.07.1976	7.09	71.8	132	31.01.1982
2	0.216	2.19	20.08.1983	6.24	63.2	128	02.03.1987
3	0.237	2.40	05.09.1991	6.00	60.8	151	01.07.1981
4	0.249	2.52	22.08.1989	5.94	60.1	115	04.01.2003
5	0.253	2.56	12.07.1977	5.88	59.6	119	18.03.1987
6	0.258	2.61	02.07.1986	5.68	57.6	115	29.09.2007
7	0.265	2.68	13.08.1990	5.65	57.2	116	18.07.2002
8	0.266	2.70	11.08.1992	5.57	56.5	110	10.03.1981
9	0.272	2.76	21.07.2010	5.56	56.3	113	13.01.1993
10	0.276	2.79	04.08.1982	5.41	54.8	113	29.01.1982

(*) Abflussjahr: 1.11. des Vorjahres bis 31.10.
, Beeinflussung durch das HRB oh.

LANUV NRW