

A<sub>Eo</sub> : 342.62 km<sup>2</sup>  
 PNP : NHH+ 65.27 m  
 Lage : 325.93 km oberhalb der Mündung links



Pegel : Rheda Nr. 311900000200  
 Gewässer: Ems  
 Gebiet : Obere Ems

Tag	2008		2009											
	Nov	Dez	Jan	Feb	Mrz	Apr	Mai	Jun	Jul	Aug	Sep	Okt	Nov	Dez
1.	1.71	2.02	1.50	2.15	6.79	4.02	2.73	0.668	0.560	0.828	0.317	0.748	1.68	5.30
2.	1.49	1.94	1.46	2.02	5.43	3.49	2.23	0.629	0.557	0.764	0.421	0.988	4.97	4.44
3.	1.23	2.15	1.29	1.90	4.63	3.14	1.91	0.642	0.542	0.844	0.476	1.13	3.96	4.27
4.	1.41	2.43	1.48	1.88	4.25	2.84	1.69	0.603	0.499	0.790	0.652	1.09	4.83	4.15
5.	1.39	2.94	1.52	1.88	3.85	2.59	1.59	0.642	0.448	0.717	0.918	0.905	4.73	3.83
6.	1.25	3.18	1.16	1.87	5.94	2.56	2.00	0.817	0.465	0.639	0.768	1.09	3.90	5.27
7.	1.37	3.30	1.18	1.98	11.4	2.44	2.13	1.20	0.538	0.588	0.691	2.04	3.66	6.55
8.	1.28	2.87	1.33	2.60	7.75	2.42	1.90	1.13	0.991	0.572	0.637	5.86	3.67	6.00
9.	1.31	2.59	1.28	2.47	7.13	2.41	1.67	1.00	1.02	0.572	0.573	3.27	3.24	5.79
10.	1.33	2.41	1.19	5.53	6.96	2.26	1.52	0.893	1.20	0.579	0.535	3.34	6.29	7.76
11.	1.37	2.29	1.15	10.6	9.45	2.13	1.39	1.18	1.48	0.609	0.508	4.13	8.51	11.8
12.	1.40	2.14	1.13	7.04	7.77	2.00	1.34	1.16	1.58	0.596	0.509	3.65	6.32	10.1
13.	1.33	2.01	1.36	5.91	8.31	1.90	1.25	0.946	1.35	0.623	0.506	3.12	5.27	7.30
14.	1.27	1.95	1.64	6.04	5.99	1.89	1.18	0.799	1.04	0.647	0.546	2.63	4.62	5.85
15.	1.49	1.82	1.94	4.74	5.50	1.83	1.61	0.827	0.932	0.551	1.04	2.23	4.17	4.94
16.	1.45	1.73	1.86	5.31	5.52	1.73	2.25	1.76	0.914	0.495	0.988	2.27	4.74	4.39
17.	1.32	1.73	1.86	13.6	4.91	1.73	1.55	1.56	0.782	0.429	0.862	2.66	4.29	3.85
18.	1.32	1.82	2.48	8.72	4.29	1.66	1.43	1.09	0.693	0.354	0.799	2.37	3.74	3.46
19.	1.38	1.99	3.74	6.11	3.88	1.59	1.28	0.950	0.791	0.358	0.725	2.21	3.18	3.05
20.	1.96	2.80	4.90	5.85	3.41	1.57	1.15	0.833	0.987	0.349	0.649	2.03	2.91	2.84
21.	2.76	3.20	3.89	6.34	3.12	1.53	1.08	0.832	1.04	0.383	0.654	1.87	2.67	2.97
22.	3.12	3.84	3.12	7.28	2.96	1.47	1.07	0.887	1.94	0.355	0.602	1.73	2.62	3.52
23.	3.27	3.31	5.02	7.92	3.19	1.43	0.993	0.813	1.74	0.336	0.546	1.63	4.49	3.99
24.	3.21	2.91	9.13	6.76	4.15	1.30	0.981	0.714	1.55	0.298	0.561	1.58	11.9	3.37
25.	2.75	3.00	5.92	5.40	4.15	1.24	0.887	0.674	1.65	0.330	0.569	1.61	7.47	7.23
26.	2.94	2.56	4.39	4.82	5.46	1.23	0.626	0.676	1.36	0.320	0.577	1.61	6.10	11.8
27.	3.13	2.21	3.61	5.53	7.68	1.30	0.754	0.640	1.22	0.304	0.584	1.73	8.49	8.16
28.	2.75	2.06	3.18	6.99	8.17	2.33	0.782	0.609	1.06	0.293	0.658	1.76	7.68	7.73
29.	2.45	1.85	2.87	8.31	8.17	1.72	0.757	0.634	0.863	0.297	0.658	1.64	8.17	6.26
30.	2.24	1.70	2.55	5.93	4.66	1.68	0.715	0.593	1.04	0.284	0.677	1.65	6.66	8.64
31.	1.53	2.30	2.30	4.66	4.66		0.685	0.893	0.893	0.280	1.65	1.65	12.3	

Tag	3.	31.	12.	6.	22.	26.	26.	30.	5.	31.	1.	1.	20.	
NQ	1.23	1.53	1.13	1.87	2.96	1.23	0.626	0.593	0.448	0.280	0.317	0.748	1.68	2.84
MQ	1.89	2.40	2.63	5.33	5.84	2.05	0.880	1.39	0.880	0.496	0.640	2.14	5.16	6.03
HQ	4.18	4.65	10.7	17.0	12.9	4.67	4.20	3.71	3.92	1.07	2.89	8.75	19.7	16.9
Tag	21.	25.	24.	11.	7.	1.	1.	16.	8.	2.	22.	8.	24.	11.

h <sub>N</sub> mm	43	33	35	80	78	27	36	51	110	22	47	118	120	94
h <sub>A</sub> mm	14	19	21	38	46	15	11	7	8	4	5	17	39	47
	1950/2008		1951/2009 59 Kalenderjahre											
Jahr	1959	1959	1970	1956	1960	1960	1959	1959	1959	1959	1959	1959	1959	1959
NQ	0.408	0.557	0.814	0.613	0.649	0.330	0.234	0.070	0.068	0.041	0.039	0.050	0.408	0.557
MNQ	1.62	2.04	2.37	2.50	2.34	1.66	1.06	0.746	0.624	0.624	0.769	1.21	1.62	2.06
MQ	3.67	5.23	5.75	5.22	4.91	3.43	2.24	1.65	1.80	1.61	1.79	2.49	3.70	5.27
MHQ	12.6	18.0	19.5	16.7	17.1	11.4	8.32	7.14	8.59	7.52	7.95	9.04	12.8	18.1
HQ	36.0	45.6	39.4	44.8	44.3	28.6	34.2	35.4	36.5	33.7	30.5	34.3	36.0	45.6
Jahr	1998	1960	2003	1970	1956	1986	1978	1981	1965	1981	1956	1993	1998	1960
Mh <sub>N</sub> mm	75	77	71	55	65	55	67	73	88	81	71	61	74	78
Mh <sub>A</sub> mm	28	41	45	37	38	26	17	12	14	13	14	19	28	41

	Abflussjahr (*)				Kalenderjahr		Unter-schreitungs-dauer in Tagen	Unterschnittene Abflüsse m³/s			
	2009		2009		2009			1951/2009 59 Kalenderjahre			
	Jahr	Datum	Winter	Sommer	Jahr	Datum	Abfluss-jahr (*)	Kalender-jahr	Obere	Mittlere	Untere
NQ m³/s	0.280	am 31.08.2009	1.13	0.280	0.280	am 31.08.2009	364	13.6	43.3	25.0	7.12
MQ m³/s	2.21		3.34	1.10	2.79		363	11.4	12.3	39.6	21.8
HQ m³/s	17.0	am 11.02.2009 bei W = 335 cm	17.0	8.75	19.7	am 24.11.2009 bei W = 352 cm	362	10.6	11.9	33.0	19.6
Nq l/(skm²)	0.818		3.31	0.818	0.818		361	9.45	11.8	30.8	18.0
Mq l/(skm²)	6.45		9.74	3.21	8.13		360	9.13	11.8	29.4	16.5
Hq l/(skm²)	49.8		49.8	25.5	57.5		359	8.72	11.4	25.7	15.5
h <sub>N</sub> mm	680		296	384	818		358	8.31	10.6	25.7	14.9
h <sub>A</sub> mm	203		152	51	256		357	8.31	10.1	23.4	14.2
	1951/2009 (*) 59 Jahre				1951/2009		356	8.17	9.45	21.7	13.3
NQ m³/s	0.039	am 05.09.1959	0.330	0.039	0.039	am 05.09.1959	355	7.13	8.31	18.5	10.8
MNQ m³/s	0.390		1.20	0.398	0.398		350	5.94	7.68	14.5	8.58
MQ m³/s	3.31		4.71	1.93	3.31		340	5.46	6.79	12.5	7.24
MHQ m³/s	28.7		27.3	15.3	28.8		330	4.63	6.04	11.4	6.29
HQ m³/s	45.6	am 05.12.1960 bei W = 444 cm	45.6	36.5	45.6	am 05.12.1960 bei W = 444 cm	320	3.27	5.27	9.19	5.08
HQ <sub>1</sub> m³/s							270	2.59	3.96	6.09	3.91
HQ <sub>5</sub> m³/s							240	2.04	2.96	4.97	3.18
MNq l/(skm²)	1.14		3.50	1.16	1.16		210	1.76	2.13	4.05	2.60
Mq l/(skm²)	9.66		13.7	5.64	9.67		183	1.58	1.73	3.66	2.22
MHq l/(skm²)	83.8		79.6	44.7	84.0		150	1.32	1.43	3.13	1.82
Mh <sub>N</sub> mm	838		397	441	838		130	1.18	1.18	2.90	1.62
Mh <sub>A</sub> mm	305		215	90	305		120	1.09	1.09	2.80	1.53
	Niedrigwasser (n)				Hochwasser		110	1.00	1.00	2.73	1.45
	m³/s	l/(skm²)	Datum	m³/s	l/(skm²)	Datum	100	0.918	0.918	2.59	1.37
1	0.039	0.115	05.09.1959	45.6	133	05.12.1960	90	0.833	0.833	2.44	1.29
2	0.088	0.257	20.07.1963	44.8	131	23.02.1970	80	0.782	0.782	2.36	1.21
3	0.101	0.295	20.07.1976	44.3	129	04.03.1956	70	0.714	0.714	2.26	1.14
4	0.108	0.316	09.08.1992	42.1	123	31.12.2002	60	0.654	0.654	2.20	1.06
5	0.122	0.355	04.08.1964	39.4	115	03.01.2003	50	0.629	0.629	2.11	0.989
6	0.124	0.361	12.08.1969	36.9	108	29.01.1993	40	0.584	0.584	2.01	0.906
7	0.138	0.403	24.07.1990	36.5	106	17.07.1965	30	0.551	0.551	1.85	0.821
8	0.151	0.440	22.08.1973	36.4	106	13.03.1981	25	0.535	0.535	1.76	0.776
9	0.154	0.451	08.09.1971	36.2	106	30.01.1995	20	0.495	0.495	1.57	0.729
10	0.155	0.451	16.08.1986	36.0	105	02.11.1998	15	0.421	0.421	1.45	0.670
							10	0.349	0.349	1.32	0.599
							9	0.336	0.336	1.30	0.589
							8	0.330	0.330	1.28	0.579
							7	0.320	0.320	1.13	0.559
							6	0.317	0.317	1.07	0.541
							5	0.304	0.304	1.04	0.524