

A<sub>Eo</sub> : 98.73 km<sup>2</sup>  
 PNP : NHN+ 84.53 m  
 Lage : 348.79 km oberhalb der Mündung rechts



Pegel : Steinhorst Nr. 311300000100  
 Gewässer: Ems  
 Gebiet : Obere Ems

m<sup>3</sup>/s

Tag	2013		2014												
	Nov	Dez	Jan	Feb	Mrz	Apr	Mai	Jun	Jul	Aug	Sep	Okt	Nov	Dez	
1.	0.758	0.940	0.930	0.892	0.813	0.622	1.15	0.729	0.521	0.403	0.585	0.637	0.750	0.713	
2.	0.730	0.892	0.901	0.915	0.790	0.635	1.13	0.661	0.474	0.420	0.590	0.613	0.749	0.712	
3.	0.838	0.853	0.883	0.869	0.784	0.636	1.04	0.607	0.441	0.444	0.585	0.591	0.752	0.710	
4.	0.965	0.835	0.945	0.869	0.739	0.638	0.983	0.618	0.420	0.465	0.549	0.573	0.768	0.707	
5.	1.09	0.888	1.01	0.853	0.736	0.640	0.954	0.788	0.414	0.583	0.532	0.560	1.13	0.707	
6.	1.21	1.10	1.01	0.820	0.712	0.653	0.920	0.717	0.414	0.564	0.519	0.571	1.08	0.702	
7.	1.36	1.01	1.23	0.841	0.711	0.636	0.768	0.629	0.414	0.547	0.555	0.643	0.906	0.692	
8.	1.64	0.992	1.18	0.858	0.704	0.587	0.614	0.559	0.465	0.512	0.548	0.573	0.831	0.592	
9.	1.52	0.991	1.13	0.843	0.691	0.607	0.744	0.556	0.920	0.479	0.524	1.04	0.781	0.605	
10.	1.31	0.959	1.14	0.823	0.681	0.608	0.946	0.631	1.66	0.452	0.530	1.47	0.748	0.656	
11.	1.13	0.910	1.07	0.806	0.679	0.610	0.915	0.652	0.923	0.439	0.530	1.24	0.709	0.710	
12.	1.04	0.879	1.04	0.822	0.677	0.595	0.847	0.637	0.679	0.416	0.506	1.03	0.757	0.799	
13.	0.994	0.848	0.985	0.859	0.647	0.591	0.914	0.571	0.605	0.461	0.504	0.935	0.739	1.07	
14.	0.942	0.839	0.957	1.03	0.631	0.623	0.833	0.544	0.627	0.495	0.508	0.863	0.740	1.09	
15.	0.908	0.840	0.897	1.04	0.676	0.745	0.793	0.549	0.601	0.494	0.514	0.798	0.734	0.882	
16.	0.873	0.840	0.931	0.983	0.721	0.684	0.751	0.516	0.551	0.491	0.513	0.784	0.824	0.928	
17.	0.829	0.841	0.963	0.935	0.717	0.664	0.702	0.490	0.701	0.471	0.508	0.788	1.03	0.985	
18.	0.824	0.824	0.919	0.917	0.685	0.690	0.677	0.480	0.583	0.464	0.509	0.752	1.02	1.20	
19.	0.799	0.875	0.868	0.915	0.696	0.756	0.647	0.478	0.506	0.483	0.729	0.721	0.971	1.72	
20.	0.777	0.919	0.832	0.912	0.676	0.736	0.594	0.477	0.463	0.538	0.911	0.755	0.910	1.78	
21.	0.733	0.865	0.811	0.956	0.651	0.741	0.549	0.475	0.537	0.511	0.990	0.741	0.866	1.44	
22.	0.682	0.851	0.812	0.930	0.645	0.746	0.519	0.467	0.711	0.495	0.966	0.872	0.834	1.30	
23.	0.687	0.970	0.814	0.874	0.701	0.751	0.583	0.442	0.585	0.498	0.843	0.920	0.803	1.31	
24.	0.710	0.948	0.863	0.828	0.664	0.758	0.621	0.441	0.485	0.523	1.05	0.832	1.10	1.27	
25.	0.565	0.965	0.838	0.801	0.663	0.755	0.590	0.464	0.446	0.517	0.908	0.809	0.973	1.32	
26.	0.534	0.929	0.865	0.798	0.638	0.771	0.538	0.450	0.441	0.586	0.729	0.804	0.858	1.22	
27.	0.656	0.871	1.15	0.801	0.627	1.01	0.556	0.429	0.415	0.631	0.649	0.785	0.824	1.15	
28.	0.758	0.898	1.20	0.843	0.628	1.02	1.00	0.414	0.405	0.591	0.605	0.763	0.705	1.04	
29.	0.837	1.11	1.08		0.617	0.992	1.34	0.463	0.400	0.547	0.575	0.717	0.662	0.982	
30.	0.987	1.08	0.978		0.598	1.01	1.06	0.512	0.396	0.527	0.568	0.709	0.698	0.976	
31.		1.00	0.918		0.605		0.850		0.391	0.536		0.729		1.08	
Tag	26.	18.	21.	26.	30.	8.	22.	28.	31.	1.	13.	5.	29.	8.	
NQ	0.534	0.824	0.811	0.798	0.598	0.587	0.519	0.414	0.391	0.403	0.504	0.560	0.662	0.592	
MQ	0.923	0.921	0.973	0.880	0.684	0.717	0.811	0.548	0.568	0.503	0.638	0.794	0.842	1.00	
HQ	1.70	1.18	1.31	1.09	0.842	1.14	1.44	0.793	3.07	0.702	1.47	2.02	1.62	2.22	
Tag	8.	29.	27.	15.	1.	27.	28.+	4.+	10.	5.	24.	10.	24.	19.	
h <sub>N</sub>	mm														
h <sub>A</sub>	mm	24	25	26	22	19	19	22	14	15	14	17	22	27	
1974/2013			1975/2014 40 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	0.773	0.888	1.01	1.01	0.969	0.813	0.647	0.547	0.459	0.447	0.529	0.657	0.764	0.864	
MQ	1.15	1.36	1.54	1.40	1.40	1.11	0.936	0.785	0.698	0.701	0.789	0.901	1.13	1.32	
MHQ	2.41	2.80	3.10	2.62	2.78	1.95	1.89	1.65	1.75	1.66	1.80	1.85	2.39	2.76	
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 <sub>N</sub>	mm														
Mh <sub>A</sub>	mm	30	37	42	35	38	29	25	21	19	19	21	24	36	
		Abflussjahr (*) 2014				Kalenderjahr 2014				Unterschnittene Abflüsse m <sup>3</sup> /s					
		Jahr		Datum		Winter		Sommer		Jahr		Datum		Unterschnittene Abflüsse m <sup>3</sup> /s	
														1975/2014 40 Kalenderjahre	
														Obere Hüllkurve	
														Mittlere Werte	
														Untere Hüllkurve	
NQ	m <sup>3</sup> /s	0.391 am 31.07.2014		0.534		0.391		0.391 am 31.07.2014		364		1.66		1.78	
MQ	m <sup>3</sup> /s	0.746		0.849		0.644		0.746		363		1.64		1.73	
HQ	m <sup>3</sup> /s	3.07 am 10.07.2014 bei W = 82.0 cm		1.70		3.07		3.07 am 10.07.2014 bei W = 82.0 cm		362		1.52		1.66	
Nq	l/(skm <sup>2</sup> )	3.96		5.41		3.96		3.96		361		1.47		1.47	
Mq	l/(skm <sup>2</sup> )	7.56		8.60		6.52		7.56		360		1.36		1.44	
Hq	l/(skm <sup>2</sup> )	31.0		17.2		31.0		31.0		359		1.34		1.34	
h <sub>N</sub>	mm	238		134		103		238		358		1.31		1.33	
h <sub>A</sub>	mm	238		134		103		238		357		1.24		1.31	
		1975/2014 (*) 40 Jahre				1975/2014				Dauertabelle					
NQ	m <sup>3</sup> /s	0.093 am 13.07.1976		0.339		0.093		0.093 am 13.07.1976		210		0.785		0.752	
MNQ	m <sup>3</sup> /s	0.369		0.659		0.373		0.367		183		0.729		0.712	
MQ	m <sup>3</sup> /s	1.06		1.33		0.802		1.06		150		0.663		0.662	
MHQ	m <sup>3</sup> /s	4.46		4.12		3.15		4.43		130		0.631		0.631	
HQ	m <sup>3</sup> /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		120		0.617		0.617	
HQ <sub>1</sub>	m <sup>3</sup> /s									110		0.601		0.605	
HQ <sub>5</sub>	m <sup>3</sup> /s									100		0.586		0.590	
MNq	l/(skm <sup>2</sup> )	3.73		6.67		3.78		3.72		90		0.571		0.573	
Mq	l/(skm <sup>2</sup> )	10.8		13.4		8.12		10.7		80		0.551		0.555	
MHq	l/(skm <sup>2</sup> )	45.2		41.7		31.9		44.9		70		0.537		0.538	
Mh <sub>N</sub>	mm	339		210		129		338		60		0.519		0.519	
Mh <sub>A</sub>	mm	339		210		129		338		50		0.508		0.508	
		Niedrigwasser (n)				Hochwasser									
		m <sup>3</sup> /s		l/(skm <sup>2</sup> )		Datum		m <sup>3</sup> /s		l/(skm <sup>2</sup> )		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.  
 W-Werte: Wasserstand, Produktion, ZR-Folge, kontinuierlich