

Meteorologische Mittel von Mannheim.

Von

Realgymn.-Director **Vogelgesang.**

In den nachstehenden Tafeln theile ich die Ergebnisse der meteorologischen Beobachtungen mit, welche von 1869 bis 1884 an der hiesigen Station (110,3 m. ü. d. M.) ohne irgend welche Unterbrechung angestellt worden sind.

Die Temperaturen sind in Centesimalgraden, Dampfspannung, Luftdruck und Niederschlagshöhen in Millimetern, die relative Feuchtigkeit in Prozenten der Sättigung, die Bewölkung in Prozenten der Himmelsfläche angegeben; die Windstärken beziehen sich auf die Mannheimer Skala.

Eine klimatologische Besprechung dieser Ergebnisse behalte ich mir für den nächsten Jahresbericht vor.

L.

I. Temperatur.

Jahr	Januar			Februar			März			April			Mai			Juni		
	Mittel	Max.	Min.	Mittel	Max.	Min.	Mittel	Max.	Min.	Mittel	Max.	Min.	Mittel	Max.	Min.	Mittel	Max.	Min.
1869	0.59	11.0	-14.0	7.06	14.3	-0.6	3.21	11.9	-3.8	13.19	24.6	0.4	14.99	23.9	6.2	15.41	27.3	6.3
1870	1.15	13.7	-9.0	-1.65	12.0	-11.6	3.83	15.6	-2.6	10.98	24.3	3.0	15.74	30.2	5.0	18.44	31.5	11.4
1871	-3.74	3.2	-18.3	2.55	15.0	-11.3	7.26	20.8	-3.8	9.81	20.3	-0.8	12.73	25.8	6.6	14.74	30.6	3.5
1872	1.55	9.4	-4.0	3.03	11.2	-5.4	6.37	22.0	-2.5	10.95	21.4	4.0	14.15	24.2	5.4	17.32	26.0	10.9
1873	3.95	9.3	-3.3	3.3	14.1	10.3	7.63	19.3	-2.4	9.00	22.3	0.5	11.93	20.9	6.3	18.52	29.4	9.1
1874	2.58	12.0	-7.7	1.47	10.3	-12.5	5.98	15.2	-4.3	12.36	24.7	4.3	11.88	29.3	4.4	18.58	30.5	9.6
1875	3.12	12.1	-12.8	-1.08	5.0	-10.0	4.04	16.5	-4.6	10.73	23.2	3.0	16.30	27.3	2.2	19.30	30.0	10.1
1876	-2.11	9.6	-14.5	3.19	15.0	-13.5	6.31	20.0	-3.4	11.40	20.0	-1.1	12.21	27.3	1.5	18.97	29.1	7.3
1877	4.83	18.3	-3.1	5.46	13.6	-4.5	4.43	14.0	-9.0	9.25	22.3	0.3	12.17	24.2	0.4	20.97	32.3	9.9
1878	1.39	10.2	-13.7	4.12	13.3	-5.4	5.21	15.0	-6.0	11.14	22.1	-1.3	15.76	27.4	5.1	18.06	28.0	7.5
1879	-0.08	12.6	-11.9	3.21	13.0	-4.1	5.23	15.8	-2.4	8.79	20.5	-2.3	12.43	23.9	0.0	18.22	31.3	9.7
1880	-2.75	8.9	-23.2	2.11	14.8	-16.0	8.03	18.0	-2.4	10.91	23.5	1.2	14.56	30.2	1.2	17.13	28.6	5.0
1881	-2.51	11.2	-22.0	3.05	12.0	-8.9	6.89	18.8	-6.2	9.03	21.0	-1.0	14.75	24.5	2.3	18.30	32.5	5.0
1882	0.70	10.9	-8.1	3.01	16.5	-11.4	8.39	19.8	-2.8	10.59	20.1	-3.6	14.63	29.5	1.5	16.56	30.4	5.5
1883	2.15	13.7	-9.2	5.16	11.2	-1.5	1.76	15.0	-10.3	9.65	22.2	-1.7	15.53	27.7	3.5	19.25	30.1	8.4
1884	4.85	13.0	-4.4	4.46	13.4	-2.5	7.89	20.6	-0.8	9.00	22.6	-1.5	15.69	28.0	2.0	15.72	26.9	4.8
Mittel	0.97	18.3	-23.2	2.91	16.5	-16.0	5.78	22.0	-10.3	10.42	24.7	-3.6	14.09	30.2	0.0	17.84	32.5	4.8

Jahr	Juli			August			September			Oktober			November			Dezember			Jahr
	Mittel	Max.	Min.	Mittel	Max.	Min.	Mittel	Max.	Min.	Mittel	Max.	Min.	Mittel	Max.	Min.	Mittel	Max.	Min.	
1869	21.81	32.2	12.5	17.56	28.5	8.8	17.02	30.0	6.9	8.17	21.9	-2.6	4.84	12.6	-3.9	0.25	12.0	-13.6	10.34
1870	22.09	34.4	12.0	16.92	27.3	8.9	14.20	25.6	5.0	9.96	18.4	2.9	5.48	13.2	-0.0	-3.30	13.2	-17.4	9.48
1871	19.96	29.6	14.0	19.86	28.7	12.5	16.70	28.2	4.8	7.15	16.8	-1.6	2.07	8.1	-3.8	-4.37	4.3	-17.7	8.72
1872	20.99	32.8	14.6	17.57	25.7	13.0	16.20	28.5	4.5	10.50	19.6	2.5	7.45	15.9	-1.0	4.19	11.1	-2.0	10.85
1873	21.55	31.2	13.9	19.99	30.5	13.7	14.38	23.8	6.0	11.29	23.9	1.5	5.54	12.4	-2.5	2.05	9.8	-5.5	10.60
1874	22.92	33.0	16.5	17.73	25.7	10.4	17.30	29.2	6.6	10.16	25.3	-1.3	2.75	11.0	-6.5	-0.28	8.9	-12.6	10.29
1875	19.33	29.0	10.2	20.93	33.8	10.9	16.38	26.9	5.5	8.97	20.9	1.3	4.88	17.2	-5.0	-0.96	11.9	-19.8	10.16
1876	20.61	31.4	11.2	20.88	32.7	7.2	14.20	25.6	6.1	12.29	23.4	1.8	3.96	12.8	-6.0	5.40	15.5	-12.3	10.61
1877	19.13	31.5	9.1	19.44	30.9	9.9	12.48	24.3	-0.3	8.94	19.6	-3.1	7.59	16.6	0.6	2.50	9.9	-7.0	10.60
1878	18.89	29.3	8.4	18.79	29.2	9.9	15.99	27.4	4.8	10.63	20.8	0.5	4.57	14.7	-4.1	-0.04	12.7	-12.4	10.38
1879	17.11	29.9	9.6	19.79	33.0	10.0	15.96	26.3	6.9	9.28	17.0	-2.5	2.83	11.1	-10.6	-8.26	6.0	-24.0	8.71
1880	20.62	31.3	9.3	19.12	28.0	8.9	16.37	29.1	5.2	9.51	20.0	-2.1	5.38	12.7	-3.0	6.24	13.3	-3.5	10.60
1881	21.81	36.5	10.0	18.55	32.3	8.5	13.95	23.5	2.4	6.43	17.0	-4.0	7.98	15.5	-2.1	1.97	11.7	-7.0	10.02
1882	18.27	31.7	10.9	17.08	31.0	9.5	14.42	25.3	8.0	10.88	20.5	2.5	6.41	13.3	-4.5	3.22	13.3	-6.5	10.35
1883	18.39	31.9	8.6	18.79	29.7	8.5	14.88	23.4	5.5	9.51	19.4	0.3	6.03	14.5	-2.5	2.31	9.0	-15.0	10.28
1884	21.69	35.0	9.7	19.93	33.3	8.4	16.56	27.0	5.6	9.50	21.8	0.9	3.77	15.4	-10.6	3.52	11.7	-7.8	11.05
Mittel	20.32	36.5	8.4	18.93	33.8	7.2	15.44	30.0	-0.3	9.57	25.3	-4.0	5.10	17.2	-10.6	0.90	15.5	-24.0	10.19

Ia. Fünftägige Wärme-Mittel.

Januar		Februar					März											
1-5	6-10	11-15	16-20	21-25	26-30	31	4-5	9-10	11-15	16-20	21-25	1-2	6-7	11-12	16-17	21-22	26-27	31
2,30	1,55	0,36	1,26	-0,10	0,12	1,36	1,50	1,43	4,31	4,03	4,77	5,18	5,52	4,93	5,96	5,15	8,09	

April		Mai					Juni												
1-5	6-10	11-15	16-20	21-25	26-30	31	1-5	6-10	11-15	16-20	21-25	26-30	31	1-5	9-10	14-15	19-20	24-25	29
9,40	9,73	10,31	10,85	10,96	11,30	11,78	12,28	13,63	14,62	15,73	16,18	17,30	17,23	16,74	17,82	18,82	18,45		

Juli		August					September												
30-4	5-9	10-14	15-19	20-24	25-29	30-3	4-8	9-13	14-18	19-23	24-28	29-2	3-7	8-12	13-17	18-22	23-27		
19,71	20,67	20,05	20,81	20,88	19,64	19,96	19,66	19,38	19,25	18,92	18,12	17,15	17,64	16,47	15,50	14,41	13,32		

Oktober		November					Dezember											
28-2	3-7	8-12	13-17	18-22	23-27	28-1	2-6	7-11	12-16	17-21	22-26	27-1	2-6	7-11	12-16	17-21	22-26	27-31
13,63	11,51	10,77	9,92	8,94	7,84	6,33	6,21	6,25	4,49	4,46	4,60	3,76	0,98	-0,19	1,65	2,28	-0,01	0,54

II. Luftfeuchtigkeit.

Jahr	Januar		Februar		März		April		Mai		Juni		Juli		August		Septbr.		October		Novbr.		Dezbr.		Jahr	
	abs.	rel.	abs.	rel.	abs.	rel.	abs.	rel.	abs.	rel.	abs.	rel.	abs.	rel.	abs.	rel.	abs.	rel.	abs.	rel.	abs.	rel.	abs.	rel.	abs.	rel.
1869	mm. 4.00	% 78	mm. 6.02	% 79	mm. 4.24	% 74	mm. 6.80	% 61	mm. 8.92	% 69	mm. 8.22	% 63	mm. 11.75	% 61	mm. 9.72	% 64	mm. 9.43	% 65	mm. 6.65	% 78	mm. 5.55	% 84	mm. 4.20	% 86	mm. 7.12	% 71
1870	4.24	81	3.38	77	4.60	74	5.22	55	7.75	57	8.92	57	11.93	61	11.15	76	8.50	70	7.28	79	5.63	82	3.52	85	6.84	71
1871	3.24	88	4.75	84	5.15	68	6.81	73	6.44	59	9.21	73	11.96	68	11.85	69	10.57	72	6.54	85	4.46	82	3.25	93	7.02	77
1872	4.86	92	4.98	85	5.47	76	6.60	68	8.60	70	10.41	71	11.69	63	10.53	71	9.62	69	7.92	83	6.85	86	5.53	88	7.76	77
1873	5.04	81	4.29	84	5.69	74	5.72	67	6.89	66	10.41	65	12.56	65	11.62	67	9.37	76	8.18	79	5.50	80	4.52	82	7.84	74
1874	4.66	83	3.99	77	4.92	70	6.66	62	6.90	65	9.37	59	12.05	58	9.62	63	10.05	69	7.55	81	4.84	85	4.05	87	7.05	72
1875	4.98	85	3.21	75	4.28	69	4.98	53	8.38	62	10.49	64	11.58	69	12.75	69	8.94	65	6.89	79	5.40	81	4.10	91	7.17	72
1876	3.49	85	5.12	85	5.32	73	6.04	60	5.56	62	9.87	61	11.55	64	9.77	55	9.52	78	8.85	79	5.36	85	5.89	85	7.20	72
1877	5.13	79	5.55	81	4.89	75	6.10	69	7.22	67	11.22	61	11.43	69	12.01	71	8.22	75	6.50	74	6.55	83	4.63	83	7.45	74
1878	4.26	82	5.19	83	5.16	76	7.48	75	9.88	73	11.25	72	11.89	72	12.42	77	10.65	78	8.29	86	5.19	81	4.13	87	7.99	79
1879	3.90	82	4.77	81	4.87	74	6.02	71	6.57	60	10.22	66	10.47	72	11.97	70	10.46	77	7.13	80	4.78	83	2.29	89	6.95	75
1880	3.35	85	4.52	81	5.03	62	7.68	77	9.40	73	10.97	75	12.60	70	12.78	78	10.83	78	7.89	86	5.79	84	6.31	88	8.10	78
1881	3.35	83	4.84	84	5.08	67	5.79	67	8.17	65	10.32	65	12.85	67	10.82	68	9.42	79	5.45	75	6.61	81	4.67	87	7.28	74
1882	4.32	89	4.50	78	5.47	67	5.31	57	8.25	65	9.40	66	11.14	72	10.50	72	9.71	79	8.28	84	5.97	81	5.02	84	7.33	75
1883	4.24	77	5.16	78	3.55	67	5.22	59	7.77	59	9.84	60	11.42	72	10.79	67	9.82	77	7.39	83	6.01	85	4.70	85	7.16	72
1884	5.27	81	4.87	76	5.40	69	5.37	65	7.81	59	8.35	64	11.23	59	11.50	67	9.81	71	7.20	80	5.15	83	4.96	82	7.25	71
Mittel	4.27	83	4.70	80.5	4.95	71	6.11	65	7.78	64	9.91	65	11.75	66	11.24	69	9.68	74	7.37	80.5	5.60	83	4.49	86.5	7.34	74

III. Bevölkerung und Niederschlagsverhältnisse.

[illegible]

Mittel

Jahr	Juli				August				September				Oktober				November				Dezember				Jahr			
	Bewölkung	Niederschläge	Regentage	Gewittertage	Bewölkung	Niederschläge	Regentage	Gewittertage	Bewölkung	Niederschläge	Regentage	Gewittertage	Bewölkung	Niederschläge	Regentage	Gewittertage	Bewölkung	Niederschläge	Regentage	Gewittertage	Bewölkung	Niederschläge	Regentage	Gewittertage	Bewölkung	Niederschläge	Regentage	Gewittertage
1869	48	23.9	8	5	49	34.4	10	—	51	23.4	11	2	65	40.1	16	—	83	79.9	20	—	73	51.8	17	—	63	488.0	155	18
1870	43	46.4	10	5	64	207.0	18	5	39	90.8	9	3	61	98.7	20	2	63	16.4	12	—	76	49.5	17	—	58	655.7	146	18
1871	55	72.0	16	11	38	63.8	10	5	42	58.2	8	—	53	43.2	7	—	74	19.0	11	—	69	22.7	8	—	59	705.4	135	27
1872	43	63.1	15	4	52	101.8	16	1	46	21.9	8	—	67	90.9	16	—	77	131.9	20	1	74	61.5	20	1	63	958.2	178	18
1873	50	129.7	13	9	49	105.8	11	6	56	87.0	13	3	67	46.0	9	—	66	24.9	10	1	74	10.6	10	—	63	758.6	148	27
1874	44	29.8	5	8	46	56.5	11	4	41	49.1	8	—	55	21.8	10	1	79	64.8	14	—	85	56.6	20	—	58	541.2	134	19
1875	61	317.8	18	9	43	81.4	10	5	35	59.7	8	1	78	51.1	12	—	81	105.9	21	—	86	29.3	13	—	60	987.3	145	31
1876	47	85.6	11	5	36	27.6	10	—	65	167.8	24	3	61	12.5	9	—	71	81.0	18	—	82	75.5	24	—	62	828.0	177	17
1877	61	173.6	17	6	53	77.9	15	1	56	123.4	13	2	53	46.4	13	—	75	55.4	19	—	74	86.1	16	—	61	1102.6	190	20
1878	58	84.6	12	5	60	159.1	20	8	50	75.1	7	2	71	98.4	18	1	76	50.9	17	—	85	72.8	17	—	67	1031.6	193	31
1879	68	126.6	19	3	55	71.7	15	3	58	130.4	12	2	73	45.1	10	—	83	74.6	16	—	57	26.0	9	—	69	992.8	171	20
1880	50	51.5	12	7	50	94.5	11	5	52	56.1	15	1	75	231.7	20	—	76	62.3	13	—	84	81.3	27	—	61	965.8	173	22
1881	48	118.6	12	8	58	73.2	16	2	65	74.9	14	1	70	53.3	16	—	66	14.6	11	—	79	37.1	12	—	61	655.6	143	15
1882	65	179.9	18	4	61	141.9	18	1	72	229.5	18	3	75	93.1	16	3	82	205.0	23	—	85	87.3	15	—	66	1226.8	175	25
1883	70	102.7	24	12	44	47.1	7	2	70	93.2	16	2	72	114.6	12	1	82	74.3	20	—	84	44.8	15	—	63	681.7	152	22
1884	49	90.4	13	8	43	145.9	13	9	41	29.4	9	2	78	76.8	21	—	68	40.2	13	—	89	78.8	16	—	63	803.5	155	26
Mittel	54	106.0	14	6.4	50	93.1	13	3.5	53	85.6	12	1.75	67	72.7	16	0.5	75	68.8	16	0.1	78	54.5	16	0.06	62	836.4	160	22

IV. Verteilung der Winde.

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Wind- stillen ‰
	‰	‰	‰	‰	‰	‰	‰	‰	‰	‰	‰	‰	‰	‰	‰	‰	‰
Mittlere Stärke	0.6	0.6	0.6	0.6	0.5	0.4	0.4	0.6	0.6	0.7	0.9	1.2	1.0	0.7	0.6	0.6	0.0
Januar																	
Polar: Aequatorial	3.7	5.7	14.3	3.0	4.1	1.5	2.2	2.8	20.9	7.8	7.7	4.1	4.8	1.6	1.4	2.4	12.0
Februar																	
Polar: Aequatorial	4.2	4.4	9.4	4.1	3.1	1.4	1.7	3.0	19.2	8.0	10.6	4.4	5.7	1.8	2.4	3.8	12.8
März																	
Polar: Aequatorial	6.0	6.7	12.6	6.0	4.9	1.4	2.0	3.3	12.1	7.9	9.1	7.4	6.7	1.4	3.6	3.0	5.9
April																	
Polar: Aequatorial	9.8	8.3	18.4	6.8	5.7	1.8	2.8	3.4	11.0	6.1	6.4	3.4	4.2	1.3	2.5	1.9	6.2
Mai																	
Polar: Aequatorial	7.7	8.7	18.8	6.4	4.6	1.9	2.1	2.0	12.1	7.8	7.0	4.3	4.3	1.0	2.2	2.8	6.3
Juni																	
Polar: Aequatorial	8.2	7.9	12.8	4.1	4.7	1.7	2.0	2.6	12.4	7.2	10.5	3.9	6.8	2.0	4.2	3.4	5.6
Juli																	
Polar: Aequatorial	6.6	4.9	8.9	2.1	2.6	1.1	2.5	2.3	14.9	9.2	14.1	6.5	7.7	2.1	3.8	3.2	7.5
August																	
Polar: Aequatorial	6.4	5.5	10.3	3.5	4.1	1.0	2.0	2.1	16.3	10.1	12.8	6.1	6.8	1.8	2.6	2.3	6.3
September																	
Polar: Aequatorial	6.3	5.8	11.9	3.0	3.7	2.1	2.1	2.5	16.9	7.0	12.5	5.3	4.8	1.3	1.9	2.0	10.9
Oktober																	
Polar: Aequatorial	7.9	5.7	12.4	3.4	3.2	1.1	2.8	2.1	17.2	7.7	8.6	5.9	6.2	0.8	2.9	1.7	10.4
November																	
Polar: Aequatorial	4.7	4.7	11.5	2.7	2.5	0.7	4.3	3.5	23.1	7.7	11.5	4.6	5.7	0.7	2.3	1.8	8.0
Dezember																	
Polar: Aequatorial	4.5	5.6	11.2	2.1	1.8	1.0	1.9	4.3	22.8	8.0	10.1	4.5	6.0	1.3	2.2	2.5	10.2
Jahr																	
Polar: Aequatorial	6.3	6.1	12.7	4.0	3.8	1.4	2.4	2.8	16.5	7.9	10.0	5.0	6.0	1.5	2.6	2.5	8.5

V. Luftdruck.

Jahr	Januar	Februar	März	April	Mai	Juni	Juli	August	Septbr.	Oktober	Novbr.	Dezbr.	Jahr
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1869	758.82	755.23	744.64	752.78	748.94	754.01	754.43	755.30	752.10	754.49	751.31	749.74	752.65
1870	754.85	750.95	752.01	756.60	754.38	754.72	752.44	749.89	756.09	749.35	749.98	749.53	752.48
1871	750.68	756.91	755.83	750.21	753.63	750.40	752.51	755.00	751.15	753.98	751.34	757.11	752.63
1872	749.39	753.18	749.43	750.40	750.41	752.18	752.12	752.34	751.95	748.78	749.14	747.37	750.56
1873	751.77	753.72	748.78	749.45	751.63	752.53	753.81	753.59	753.59	751.47	751.64	761.42	752.81
1874	758.48	756.35	758.40	750.59	750.81	754.93	753.59	753.89	754.56	754.15	752.63	747.44	753.82
1875	755.33	753.24	755.14	752.95	753.32	751.96	751.60	753.59	749.95	749.82	748.10	756.20	753.02
1876	760.30	749.78	744.09	750.29	753.13	751.17	754.70	752.37	749.95	752.57	751.72	745.44	751.29
1877	753.15	751.11	747.29	746.99	749.81	754.18	752.62	751.97	753.59	754.85	749.76	754.40	751.64
1878	756.45	760.50	752.07	749.05	749.62	751.99	752.41	749.04	752.91	750.20	747.28	746.99	751.54
1879	752.91	742.63	752.87	744.48	751.49	751.12	750.04	751.62	752.95	755.24	754.91	761.65	751.83
1880	762.01	752.08	755.70	749.39	752.09	750.17	751.85	750.61	753.64	750.01	753.96	752.58	752.84
1881	750.37	749.66	751.53	750.40	754.39	751.80	753.57	750.60	752.21	751.84	756.84	755.70	752.41
1882	764.40	760.59	754.18	749.64	753.55	751.70	751.29	751.33	749.26	750.78	747.52	747.81	752.69
1883	753.84	758.72	748.88	751.63	750.73	751.34	750.66	753.90	750.47	753.66	752.17	755.08	752.59
1884	757.68	754.40	752.12	746.80	753.20	751.88	752.70	752.98	754.42	754.13	756.87	751.06	753.19
Mittel	755.65	753.69	751.44	750.10	751.95	752.25	752.52	752.39	752.74	752.22	751.57	752.47	752.38

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