WAR DEPARTMENT WEATHER MAP.

SIGNAL SERVICE, U.S. ARMY.

DIVISION OF TELEGRAMS AND REPORTS FOR THE BENEFIT OF COMMERCE AND AGRICULTURE.

PRECIPITATION CHART FOR DECEMBER, 1877.

No. III

AVERAGE PRECIPITATION FOR DECEMBER.

DISTRICTS.	Average for December. For many years.	Average for December. For 1877.	Comparison of December, 1877, with the average for many years.
	Inches.	Inches.	
St. Lawrence valley	2.81	1.83	0.98 deficiency.
New England	3.35	1.33	2.02 deficiency.
Middle Atlantic States	3.45	2.30	1.15 deficiency.
South Atlantic States	3.50	4.22	0.72 excess.
Eastern Gulf States	3.76	5.81	2.05 excess.
Western Gulf States	4.90	4.50	0.40 deficiency.
Lower Lake region	2.70	1.44	1.26 deficiency.
Upper Lake region	1.95	2.39	0.44 excess.
Ohio Valley	3.83	2.98	0.85 deficiency.
Tennessee	3.81	3.10	0.71 deficiency.
Upper Mississippi Valley	2.10	2.37	0.27 excess.
Lower Missouri Valley	1.70	2.89	1.19 excess.
Upper Missouri Valley	0.48	1.57	1.09 excess.
Minnesota	0.75	1.40	0.65 excess.
California Coast	3.46	3.27	0.19 deficiency.
Portland, Or.	8.17	6.87	1.30 deficiency.

HEIGHTS OF RIVERS ABOVE LOW-WATER MARK, DEC., 1877

STATIONS.	Danger point on gauge. ft.	Danger point on gauge. in.	Highest water. Date. Dec.	Highest water. Height. ft.	Highest water. Height. in.	Lowest water. Date. Dec.	Lowest water. Height. ft.	Lowest water. Height. in.
RED RIVER.								
Shreveport	29	9	7	24	1	28	20	8
MISSOURI.								
Yankton	20	0	24	4	4	31	4	0
Omaha	16	0	26	6	0	18, 19, 22	5	2
Leavenworth	21	0	29	6	1	17 to 19	3	10
MISSISSIPPI.								
St. Paul‡	14	6	25	3	7	23	2	4
La Crosse †	18	0	1	– 0	3	21 to 25	– 0	8
Dubuque	21	10	31	5	10	7, 8	3	0
Davenport	15	0	31	4	3	11	2	2
Keokuk	14	6	26	6	0	3	2	8
St. Louis	30	0	31	16	9	7	9	5
Cairo	40	0	31	24	4	22, 23	14	4
Memphis	34	0	31	16	10	25	10	2
Vicksburg	41	0	10, 11	26	5	25, 26	19	7
New Orleans*	2	6	13, 14	8	8	1	11	3
CUMBERLAND.								
Nashville	42	0	1	13	6	23	3	2
OHIO.								
Pittsburgh	20	0	7	13	4	29, 30, 31	3	1
Cincinnati	50	0	1	26	0	29	10	1
Louisville	24	0	1	11	3	23 to 25	6	0
SAVANNAH.								
Augusta	—	–	31	14	11	21, 22	6	4
MONONGAHELA.								
Morgantown	23	0	6	8	7	31	0	8
Pittsburgh	20	0	7	13	4	29, 30, 31	3	1
ALABAMA.								
Montgomery		–	27, 28	23	0	21, 22	3	6

† No observations from the 1st to 21st. * Below high water mark of 1874

‡ No observations until the 23rd.

PUBLISHED BY ORDER OF THE SECRETARY OF WAR

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