

Table of Excessive, Greatest, and Least Monthly Rainfalls.—Continued.

Station.	Specially heavy.			Largest monthly. Amount.	Smallest monthly.	
	Date.	Amt.	Duration.		Station.	Amt.
<i>Pennsylvania.—Continued.</i>						
Grampian Hills.....				6.17		
Blooming Grove.....	26, 27	4.30		6.10		
Dyberry.....	18					
Do.....	26, 27, 28	3.00				
Easton.....	26, 27	2.25				
West Chester.....	27	2.23				
<i>South Carolina.</i>						
Allendale.....				11.33		
Georges.....				8.63		
Cheraw.....				7.54		
Columbia.....				6.18		
<i>Tennessee.</i>						
Near Alexandria.....				8.32		
Murfreesborough.....				7.56		
Hardison's Mills.....				7.52		
Florence Station.....				7.08		
Austin.....	10	2.25		6.82		
Biddleton.....				6.82		
Manchester.....				6.52		
Brownsville.....				6.43		
Flat Creek.....				6.34		
Grand Junction.....				6.21		
Pulaski.....				6.08		
Savannah.....				6.08		
Howell.....				6.03		
Memphis.....	22	2.16				
<i>Texas.</i>						
Sour Lake.....				7.59		
Houston.....				7.32		
Rio Grande City.....	27	3.00		6.82		
Palestine.....	3	3.68	3 h. 14 m.	6.33		
<i>Virginia.</i>						
Marion.....				7.05		
Norfolk.....	13, 14	3.77		6.52		
Cape Henry.....	13, 14	3.52		6.14		
Wytheville.....	10	3.00				
<i>West Virginia.</i>						
Helvetia.....				6.55		
<i>Wisconsin.</i>						
Madison.....	2, 3	3.35		7.59		
Columbus.....				6.14		
Ripon.....	11	2.08				
Franklin.....	11	2.00				

Hail-storms of less violence have occurred in the various states and territories as follows:

**Colorado.**—West Las Animas, 3d; Fort Collins, 15th; Pike's Peak, 24th; Fort Lewis, 30th.

**Dakota.**—Bismarck, 4th; Fort Yates, 4th; Huron, 15th; Fort Sully, 17th; Fort Meade, 21st.

**Delaware.**—Delaware Breakwater, 19th.

**Georgia.**—Augusta, 14th.

**Illinois.**—Anna, 10th; Collinsville, 15th.

**Indiana.**—Wabash, 6th, 17th; Indianapolis, 10th; Vevay, 12th; Griffin Station, 16th.

**Iowa.**—Guttenburg, 11th; Indianola, 11th; Fort Madison, 15th; Independence, 16th.

**Kansas.**—Wellington, 5th; Salina, 5th, 12th, 24th; Yates Centre, 23d; Clay Centre, 23d.

**Maryland.**—Fallston, 10th.

**Massachusetts.**—Dudley, 6th, 7th; Somerset 13th.

**Michigan.**—Litchfield, 2d.

**Minnesota.**—Moorehead, 5th; Saint Paul, 7th.

**Missouri.**—Saint Louis, 15th; Curryville, 16th.

**Montana.**—Billings, 4th; Fort Ellis, 11th.

**Nebraska.**—Johnson, 1st; Table Rock, 1st; Stella, 1st; North Platte, 1st, 16th; Red Willow, 7th, 16th, 17th; De Soto, 15th; Fremont, 15th; Clear Creek, 15th, 20th; Omaha, 15th, 20th; Genoa, 15th, 22d, 23d, 24th.

**Nevada.**—Pioche, 15th.

**New Jersey.**—Bordentown, 19th; Moorestown, 29th.

**New York.**—Kiantone, 18th.

**North Carolina.**—Weldon, 18th.

**Ohio.**—Westerville, 6th, 17th; Wauseon, 17th.

**Pennsylvania.**—Chambersburg, Philadelphia, 19th.

**Wisconsin.**—Beloit, 11th; La Crosse, 11th; Madison, 16th; Sussex, 16th; Manitowoc, 16th, 23d.

**Wyoming.**—Fort Washakie, 7th, 8th.

SNOW.

Snow has been reported by the following stations:

Fort Garland, Colorado, 8th: snow fell to a depth one and one-half inches.

Pike's Peak, Colorado, 2d, 3d, 5th, 8th, 9th, 11th, 12th, 16th, 17th, 25th.

Cheyenne, Wyoming, 8th.

Denver, Colorado: a heavy snow-storm prevailed throughout this part of the state on the 8th, which is a most unusual occurrence at this season of the year. The following stations in Colorado report the following concerning this storm:

Central City: snowing steadily since 7 a. m.

Black Hawk: snowing hard all day.

Georgetown: snowing all day; two inches on the ground.

Leadville: snowing all day.

Texas Creek: snowing and cold.

Alamosa: snowed for one hour during the afternoon.

Salida: snowed hard during the day and night.

SLEET.

Sleet was reported on the summit of Pike's Peak, Colorado, on the 24th and 29th.

Table of rainy and cloudy days, relative humidity, and dew-point for June, 1883.

Districts.	Rainy days.	Cloudy days.	Rel. humidity. *		Dew-point.
			Percentages.	°	
New England.....	From 8 to 15	From 2 to 8	From 70.5 to 89.2	From 49.3 to 61.0	
Middle Atlantic states.....	" 9 " 17	" 1 " 6	" 63.9 " 86.0	" 55.4 " 69.0	
South Atlantic states.....	" 10 " 19	" 3 " 11	" 64.9 " 85.4	" 63.3 " 72.2	
Florida peninsula.....	" 10 " 23	" 2 " 18	" 72.6 " 78.7	" 72.8 " 73.9	
East Gulf.....	" 16 " 21	" 2 " 8	" 72.6 " 81.4	" 68.5 " 73.6	
West Gulf.....	" 9 " 13	" 1 " 10	" 71.7 " 80.0	" 67.2 " 74.9	
Ohio valley.....	" 17 " 20	" 4 " 11	" 66.5 " 73.9	" 58.2 " 64.2	
Tennessee.....	" 12 " 16	" 2 " 5	" 71.6 " 74.0	" 63.7 " 68.6	
Lower lakes.....	" 12 " 19	" 6 " 11	" 69.0 " 75.2	" 55.4 " 58.9	
Upper lakes.....	" 14 " 21	" 3 " 13	" 69.6 " 77.8	" 46.1 " 55.3	
Extreme northwest.....	" 7 " 14	" 4 " 6	" 67.6 " 72.1	" 53.0 " 53.0	
Upper Mississippi valley.....	" 10 " 19	" 7 " 12	" 62.0 " 74.0	" 53.8 " 60.3	
Missouri valley.....	" 10 " 16	" 1 " 7	" 68.7 " 72.0	" 54.2 " 60.9	
Northern slope.....	" 9 " 17	" 1 " 8	" 46.5 " 71.5	" 36.1 " 56.0	
Middle slope.....	" 7 " 15	" 2 " 6	" 50.6 " 70.2	" 44.7 " 58.9	
Southern slope.....	" 4 " 9	" 0 " 6	" 42.4 " 62.5	" 47.5 " 63.8	
Southern plateau.....	" 0 " 2	none	" 23.9 " 34.2	" 31.4 " 42.1	
Northern plateau.....	" 2 " 9	From 2 " 6	" 44.8 " 70.9	" 37.7 " 47.9	
North Pacific.....	" 2 " 3	" 3 " 4	" 55.6 " 62.2	" 46.0 " 48.9	
Middle Pacific.....	" 0 " 2	" 0 " 5	" 36.8 " 81.9	" 47.9 " 56.4	
South Pacific.....	" 0 " 3	" 0 " 3	" 51.6 " 75.8	" 58.2 " 65.1	
Mt. Washington, N. H.....	Seventeen	Three	90.0	43.6	
Pike's Peak Col.....	Eleven	Three	81.4	25.9	
Salt Lake City, Utah.....	Five	Three	31.7	37.3	

\* Relative humidity corrected for altitude.

COTTON REGION REPORTS.

Temperature and rainfall observations in the cotton districts were continued during the month of June, 1883. The averages for the various districts, as determined from the observations made by the stations published in the REVIEW for April, 1882, are given in table below.

Meteorological Record of the Cotton Districts for the month of June, 1883.

Districts.	Average rainfall in inches.	Temperature.		Extremes.	
		Mean of the maxima.	Mean of the minima.	Highest.	Lowest.
New Orleans.....	8.65	90.2	71.7	103	45
Savannah.....	5.93	91.1	71.3	104	58
Charleston.....	4.77	90.4	68.9	100	55
Atlanta.....	2.88	88.8	66.8	101	48
Wilmington.....	7.30	88.8	66.5	101	49
Memphis.....	4.52	89.2	67.1	99	48
Galveston.....	3.48	93.1	72.6	103	60
Vicksburg.....	5.43	90.7	70.2	98	58
Montgomery.....	5.03	89.3	69.4	102	50
Augusta.....	5.25	90.3	69.0	102	51
Little Rock.....	3.52	90.0	67.2	99.5	46
Mobile.....	4.54	92.5	69.5	104	53

WINDS.

The prevailing directions of the wind for the month of June, 1883, are shown on chart iii. by arrows flying with the wind. In the Southern states, Ohio valley, lower lake region, and along the Atlantic coast the prevailing winds are from the south and southwest; in the upper Mississippi and Missouri valleys they are from the north and northwest; in the northern slope they are from the west and southwest; in the north Pacific coast region, from northwest, and on the California coast they are westerly.