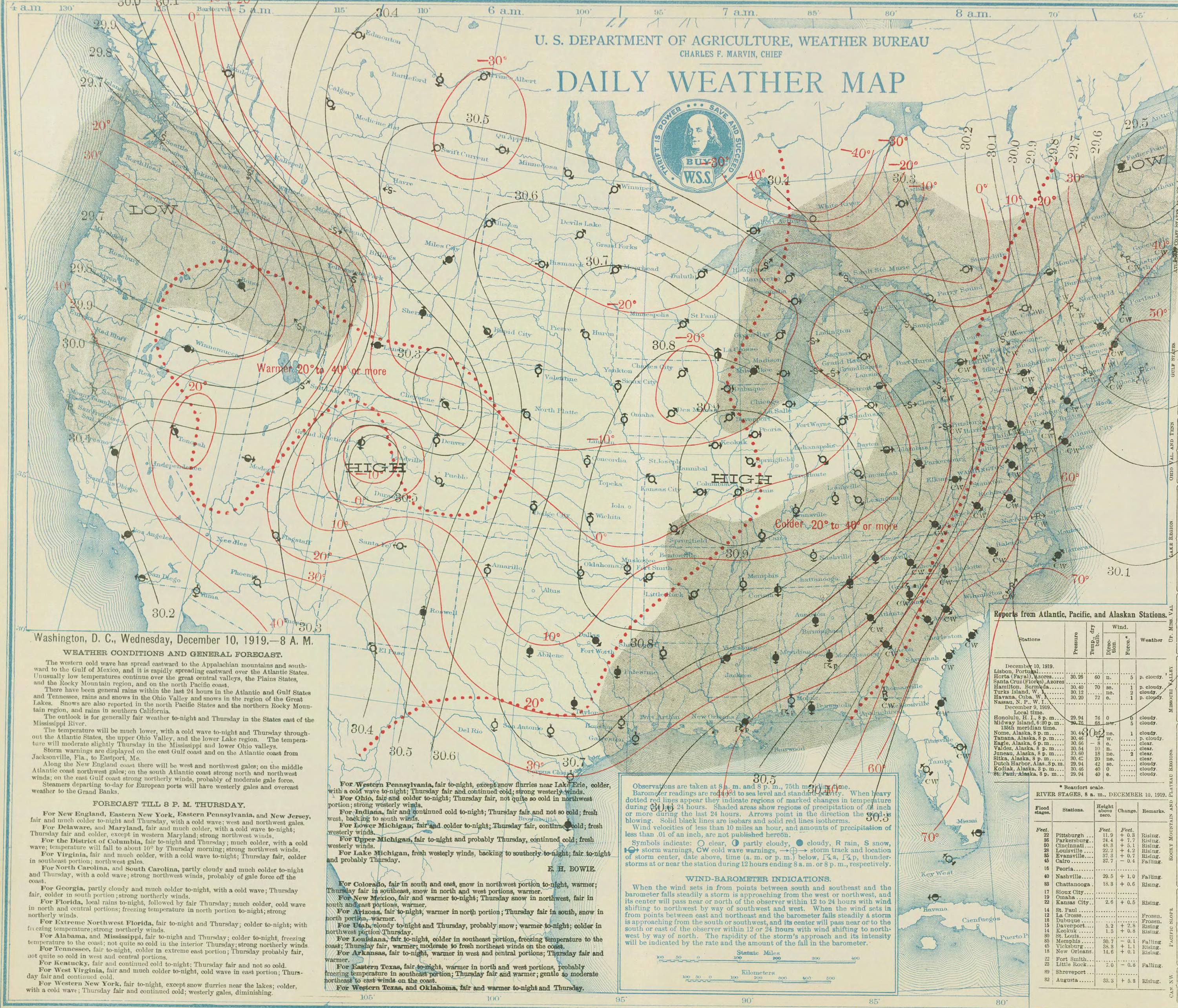


U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU
CHARLES F. MARVIN, CHIEF

DAILY WEATHER MAP



WEDNESDAY, December 10, 1919.—8 A. M.



Station	Pressure	Temp.	Wind	Weather
Father Point, Que.	29.45	-60	38	+14
Montreal, Que.	29.92	-50	38	28
Greenville, Me.	29.72	-42	32	38
Eastport, Me.	29.74	-42	32	38
Northfield, Vt.	29.94	-42	32	38
Portland, Me.	29.76	-32	38	38
Concord, N. H.	29.82	-32	38	38
Boston, Mass.	29.84	-32	38	38
Block Island, R. I.	29.86	-32	38	38
Hartford, Conn.	29.88	-32	38	38
Fairport, N. Y.	29.90	-32	38	38
Syracuse, N. Y.	29.92	-32	38	38
Binghamton, N. Y.	29.94	-32	38	38
Albany, N. Y.	29.96	-32	38	38
New York, N. Y.	30.00	-32	38	38
Saratoga, N. Y.	30.02	-32	38	38
Philadelphia, Pa.	30.04	-32	38	38
Norfolk, Va.	30.06	-32	38	38
Richmond, Va.	30.08	-32	38	38
Washington, D. C.	30.10	-32	38	38
Norfolk, Va.	30.12	-32	38	38
Charleston, S. C.	30.14	-32	38	38
Savannah, Ga.	30.16	-32	38	38
Jacksonville, Fla.	30.18	-32	38	38
Miami, Fla.	30.20	-32	38	38
Key West, Fla.	30.22	-32	38	38
Atlanta, Ga.	30.24	-32	38	38
Macon, Ga.	30.26	-32	38	38
Thomasville, Ga.	30.28	-32	38	38
Tampa, Fla.	30.30	-32	38	38
Pensacola, Fla.	30.32	-32	38	38
Mobile, Ala.	30.34	-32	38	38
Montgomery, Ala.	30.36	-32	38	38
Birmingham, Ala.	30.38	-32	38	38
Mobile, Ala.	30.40	-32	38	38
Corinth, Miss.	30.42	-32	38	38
New Orleans, La.	30.44	-32	38	38
Shreveport, La.	30.46	-32	38	38
Little Rock, Ark.	30.48	-32	38	38
Fort Smith, Ark.	30.50	-32	38	38
Galveston, Tex.	30.52	-32	38	38
Houston, Tex.	30.54	-32	38	38
San Antonio, Tex.	30.56	-32	38	38
Corpus Christi, Tex.	30.58	-32	38	38
Brownsville, Tex.	30.60	-32	38	38
Memphis, Tenn.	30.62	-32	38	38
Nashville, Tenn.	30.64	-32	38	38
Chattanooga, Tenn.	30.66	-32	38	38
Knoxville, Tenn.	30.68	-32	38	38
Lexington, Ky.	30.70	-32	38	38
Louisville, Ky.	30.72	-32	38	38
Evansville, Ind.	30.74	-32	38	38
Indianapolis, Ind.	30.76	-32	38	38
Cincinnati, Ohio	30.78	-32	38	38
Columbus, Ohio	30.80	-32	38	38
Elkins, W. Va.	30.82	-32	38	38
Parkersburg, W. Va.	30.84	-32	38	38
Pittsburgh, Pa.	30.86	-32	38	38
Chester, Pa.	30.88	-32	38	38
Erie, Pa.	30.90	-32	38	38
Cleveland, Ohio	30.92	-32	38	38
Toledo, Ohio	30.94	-32	38	38
Detroit, Mich.	30.96	-32	38	38
Saginaw, Mich.	30.98	-32	38	38
Alpena, Mich.	31.00	-32	38	38
Sault Ste. Marie, Mich.	31.02	-32	38	38
Houghton, Mich.	31.04	-32	38	38
Marquette, Mich.	31.06	-32	38	38
Escanaba, Mich.	31.08	-32	38	38
Green Bay, Wis.	31.10	-32	38	38
Ladysmith, Mich.	31.12	-32	38	38
Grand Haven, Mich.	31.14	-32	38	38
Grand Rapids, Mich.	31.16	-32	38	38
Port Huron, Mich.	31.18	-32	38	38
Chicago, Ill.	31.20	-32	38	38
Milwaukee, Wis.	31.22	-32	38	38
Duluth, Minn.	31.24	-32	38	38
White River, Ont.	31.26	-32	38	38
St. Paul, Minn.	31.28	-32	38	38
Madison, Wis.	31.30	-32	38	38
La Crosse, Wis.	31.32	-32	38	38
Charley City, Iowa	31.34	-32	38	38
Chicago, Iowa	31.36	-32	38	38
Davenport, Iowa	31.38	-32	38	38
Des Moines, Iowa	31.40	-32	38	38
Keokuk, Iowa	31.42	-32	38	38
Peoria, Ill.	31.44	-32	38	38
Springfield, Ill.	31.46	-32	38	38
St. Louis, Mo.	31.48	-32	38	38
St. Paul, Minn.	31.50	-32	38	38
St. Paul, Minn.	31.52	-32	38	38
St. Paul, Minn.	31.54	-32	38	38
St. Paul, Minn.	31.56	-32	38	38
St. Paul, Minn.	31.58	-32	38	38
St. Paul, Minn.	31.60	-32	38	38
St. Paul, Minn.	31.62	-32	38	38
St. Paul, Minn.	31.64	-32	38	38
St. Paul, Minn.	31.66	-32	38	38
St. Paul, Minn.	31.68	-32	38	38
St. Paul, Minn.	31.70	-32	38	38
St. Paul, Minn.	31.72	-32	38	38
St. Paul, Minn.	31.74	-32	38	38
St. Paul, Minn.	31.76	-32	38	38
St. Paul, Minn.	31.78	-32	38	38
St. Paul, Minn.	31.80	-32	38	38
St. Paul, Minn.	31.82	-32	38	38
St. Paul, Minn.	31.84	-32	38	38
St. Paul, Minn.	31.86	-32	38	38
St. Paul, Minn.	31.88	-32	38	38
St. Paul, Minn.	31.90	-32	38	38
St. Paul, Minn.	31.92	-32	38	38
St. Paul, Minn.	31.94	-32	38	38
St. Paul, Minn.	31.96	-32	38	38
St. Paul, Minn.	31.98	-32	38	38
St. Paul, Minn.	32.00	-32	38	38

Washington, D. C., Wednesday, December 10, 1919.—8 A. M.

WEATHER CONDITIONS AND GENERAL FORECAST.

The western cold wave has spread eastward to the Appalachian mountains and southward to the Gulf of Mexico, and it is rapidly spreading eastward to the Atlantic States. Unusually low temperatures continue over the great central valleys, the Plains States, and the Rocky Mountain region, and on the north Pacific coast.

There have been general rains within the last 24 hours in the Atlantic and Gulf States and Tennessee, and snows in the Ohio Valley and snows in the region of the Great Lakes. Snows are also reported in the north Pacific States and the northern Rocky Mountain region, and rains in southern California.

The outlook is for generally fair weather to-night and Thursday in the States east of the Mississippi River.

The temperature will be much lower, with a cold wave to-night and Thursday throughout the Atlantic States, the upper Ohio Valley, and the lower Lake region. The temperature will moderate slightly Thursday in the Mississippi and lower Ohio valleys.

Storm warnings are displayed on the east Gulf coast and on the Atlantic coast from Jacksonville, Fla., to Eastport, Me.

Along the New England coast there will be west and northwest gales; on the middle Atlantic coast northwest gales; on the south Atlantic coast strong north and northwest winds; on the east Gulf coast strong northerly winds, probably of moderate gale force.

Steamers departing today for European ports will have westerly gales and overcast weather to the Grand Banks.

FORECAST TILL 8 P. M. THURSDAY.

For New England, Eastern New York, Eastern Pennsylvania, and New Jersey, fair and much colder to-night and Thursday, with a cold wave; west and northwest gales.

For Delaware, and Maryland, fair and much colder, with a cold wave to-night; Thursday fair and colder, except in western Maryland; strong northwest winds.

For the District of Columbia, fair to-night and Thursday; much colder, with a cold wave; temperature will fall to about 10° by Thursday morning; strong northwest winds.

For Virginia, fair and much colder, with a cold wave to-night; Thursday fair, colder in southeast portion; northwest gales.

For North Carolina, and South Carolina, partly cloudy and much colder to-night and Thursday, with a cold wave; strong northwest winds, probably of gale force off the coast.

For Georgia, partly cloudy and much colder to-night, with a cold wave; Thursday fair, colder in south portion; quite so cold in the interior. Thursday; strong northerly winds in north and central portions; freezing temperature in north portion to-night; strong northerly winds.

For extreme Northwest Florida, fair to-night and Thursday; colder to-night; with freezing temperature; strong northerly winds.

For Alabama, and Mississippi, fair to-night and Thursday; colder to-night, freezing temperature to the coast; not quite so cold in the interior. Thursday; strong northerly winds.

For Tennessee, fair to-night, colder in extreme east portion; Thursday probably fair, not quite so cold in west and central portions.

For Kentucky, fair and continued cold to-night; Thursday fair and not so cold.

For West Virginia, fair and much colder to-night, cold wave in east portion; Thursday fair and continued cold.

For Western New York, fair to-night, except snow flurries near the lakes; colder, with a cold wave; Thursday fair and continued cold; westerly gales, diminishing.

For Western Pennsylvania, fair to-night, except snow flurries near Lake Erie, colder, with a cold wave to-night; Thursday fair and continued cold; strong westerly winds.

For Ohio, fair and colder to-night; Thursday fair, not quite so cold in northwest portion; strong westerly winds.

For Indiana, fair and continued cold to-night; Thursday fair and not so cold; fresh west, backing to south winds.

For Lower Michigan, fair and colder to-night; Thursday fair, continued cold; fresh westerly winds.

For Upper Michigan, fair to-night and probably Thursday, continued cold; fresh westerly winds.

For Lake Michigan, fresh westerly winds, backing to southerly to-night; fair to-night and probably Thursday.

For Colorado, fair in south and east, snow in northwest portion to-night, warmer; Thursday fair in southeast, snow in north and west portions, warmer.

For New Mexico, fair and warmer to-night; Thursday snow in northwest, fair in south and east portions, warmer.

For Arizona, fair to-night, warmer in north portion; Thursday fair in south, snow in north portion, warmer.

For Utah, cloudy to-night and Thursday, probably snow; warmer to-night; colder in northwest portion Thursday.

For Louisiana, fair to-night, colder in southeast portion, freezing temperature to the coast; Thursday fair, warmer, moderate to fresh northeast winds on the coast.

For Arkansas, fair to-night, warmer in west and central portions; Thursday fair and warmer.

For Eastern Texas, fair to-night, warmer in north and west portions, probably freezing temperature in southeast portion; Thursday fair and warmer; gentle to moderate northeast to east winds on the coast.

For Western Texas, and Oklahoma, fair and warmer to-night and Thursday.

Observations are taken at 8 a. m. and 8 p. m., 75th meridian time. Barometer readings are reduced to sea level and standard dry. When heavy dotted red lines appear they indicate regions of marked changes in temperature during the last 24 hours. Shaded areas show regions of precipitation of .01 inch or more during the last 24 hours. Arrows point in the direction the wind is blowing. Solid black lines are isobars and solid red lines isotherms. The 30° isobars blowing. Solid black lines are isobars and solid red lines isotherms. The 30° isobars blowing. Solid black lines are isobars and solid red lines isotherms. The 30° isobars blowing.

Wind velocities of less than 10 miles an hour, and amounts of precipitation of less than .01 of an inch, are not published hereon.

Symbols indicate: ☉ clear, ☁ partly cloudy, ☁ cloudy, R rain, S snow, ⚡ storm warnings, CW cold wave warnings, → storm track and location of storm center, date above, time (a. m. or p. m.) below, ⚡, ⚡, p, thunderstorms at or near the station during 12 hours ending 8 a. m. or 8 p. m., respectively.

WIND-BAROMETER INDICATIONS.

When the wind sets in from points between south and southeast and the barometer falls steadily a storm is approaching from the west or northwest, and its center will pass near or north of the observer within 12 to 24 hours with wind shifting to northwest by way of southwest and west. When the wind sets in from points between east and northeast and the barometer falls steadily a storm is approaching from the south or southwest, and its center will pass near or to the south or east of the observer within 12 or 24 hours with wind shifting to northwest by way of north. The rapidity of the storm's approach and its intensity will be indicated by the rate and the amount of the fall in the barometer.

Reports from Atlantic, Pacific, and Alaskan Stations.

Stations	Pressure	Temp.	Wind	Weather
December 10, 1919.				
Lisbon, Portugal	30.25	60	n.	p. cloudy.
Horta (Fayal), Azores	30.25	60	n.	p. cloudy.
Santa Cruz (Foyel), Azores	30.25	60	n.	p. cloudy.
Hamilton, Bermuda	30.40	70	se.	p. cloudy.
Yales, Alaska, 8 p. m.	30.12	72	n.	1. cloudy.
Havana, Cuba, 5 a. m.	30.12	72	n.	1. cloudy.
Nassau, N. P. W. I.	30.12	72	n.	1. cloudy.
December 9, 1919.				
Honolulu, H. I., 8 p. m.	29.94	76	0	cloudy.
Midway Island, 6:30 p. m.	30.76	68	sw.	3
185th meridian time.				
Nome, Alaska, 8 p. m.	30.45	30	ne.	1
Tanana, Alaska, 8 p. m.	30.45	30	ne.	1
Eagle, Alaska, 8 p. m.	30.65	8	e.	clear.
Yales, Alaska, 8 p. m.	30.54	10	n.	clear.
Juneau, Alaska, 8 p. m.	31.60	18	ne.	clear.
Sitka, Alaska, 8 p. m.	30.42	30	ne.	clear.
Dutch Harbor, Alas., 8 p. m.	29.94	42	se.	cloudy.
Kodiak, Alaska, 8 p. m.	30.45	40	e.	cloudy.
St. Paul, Alaska, 3 p. m.	29.94	40	e.	cloudy.

RIVER STAGES, 8 a. m., DECEMBER 10, 1919.

Flood stage.	Stations.	Height above zero.	Change.	Remarks.
22	Pittsburgh	11.9	+ 0.3	Rising.
86	Parkersburg	24.4	+ 7.7	Rising.
60	Cincinnati	48.8	+ 5.1	Rising.
28	Louisville	22.2	+ 4.2	Rising.
85	Evansville	37.8	+ 0.7	Rising.
45	Chattanooga	37.7	+ 0.4	Falling.
16	Peoria	.....	.....	.....
40	Nashville	29.5	+ 1.0	Falling.
83	Chattanooga	18.8	+ 0.6	Rising.
17	St. Paul	.....	.....	.....
19	Omaha	.....	.....	.....
22	Kansas City	2.6	+ 0.6	Rising.
14	St. Paul	.....	.....	.....
12	La Crosse	.....	.....	.....
15	Davenport	.....	.....	.....
14	St. Paul	.....	.....	.....
14	Keokuk	1.5	+ 0.8	Rising.
85	Memphis	.....	.....	.....
45	Vicksburg	38.8	+ 1.1	Rising.
18	New Orleans	14.6	+ 0.1	Rising.
22	Fort Smith	.....	.....	.....
23	Little Rock	7.0	+ 0.8	Falling.
89	Shreveport	.....	.....	.....
82	Augusta	33.3	+ 5.8	Rising.

MISSOURI VALLEY

Stations	Pressure	Temp.	Wind	Weather
St. Paul, Minn.	31.74	-32	38	38
St. Paul, Minn.	31.76	-32	38	38
St. Paul, Minn.	31.78	-32	38	38
St. Paul, Minn.	31.80	-32	38	38
St. Paul, Minn.	31.82	-32	38	38
St. Paul, Minn.	31.84	-32	38	38
St. Paul, Minn.	31.86	-32	38	38
St. Paul, Minn.	31.88	-32	38	38
St. Paul, Minn.	31.90	-32	38	38
St. Paul, Minn.	31.92	-32	38	38
St. Paul, Minn.	31.94	-32	38	38
St. Paul, Minn.	31.96	-32	38	38
St. Paul, Minn.	31.98	-32	38	38
St. Paul, Minn.	32.00	-32	38	38

ROCKY MOUNTAIN AND PACIFIC SLOPE

Stations	Pressure	Temp.	Wind	Weather
Denver, Colo.	30.32	-20	4	+24
Albuquerque, N. M.	30.48	-14	10	+12
Flagstaff, Ariz.	30.54	-16	2	+12
Phoenix, Ariz.	30.60	-18	2	+10
Yuma, Ariz.	30.66	-20	4	+12
San Diego, Calif.	30.72	-22	6	+10
San Francisco, Calif.	30.78	-24	8	+12
Portland, Ore.	30.84	-26	10	+10
Seattle, Wash.	30.90	-28	12	+8
Portland, Ore.	30.96	-30	14	+6
Spokane, Wash.	31.02	-32	16	+4
Boise, Idaho	31.08	-34	18	+2
Butte, Mont.	31.14	-36	20	0
Helena, Mont.	31.20	-38	22	-2
Billings, Mont.	31.26	-40	24	-4
Great Falls, Mont.	31.32	-42	26	-6
Missoula, Mont.	31.38	-44	28	-8
Butte, Mont.	31.44	-46	30	-10
Helena, Mont.	31.50	-48	32	-12
Billings, Mont.	31.56	-50	34	-14
Great Falls, Mont.	31.62	-52	36	-16
Missoula, Mont.	31.68	-54	38	-18
Butte, Mont.	31.74	-56	40	-20
Helena, Mont.	31.80	-58	42	-22
Billings, Mont.	31.86	-60	44	-24
Great Falls, Mont.	31.92	-62	46	-26
Missoula, Mont.	31.98	-64	48	-28
Butte, Mont.	32.04	-66	50	-30