FORM MAP C

U.S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU

CHARLES F. MARVIN, CHIEF

DAILY WEATHER MAP

SECOND EDITION.

THURSDAY, October 12, 1917. 8 A.M.

Washington, D. C., Thursday, October 18, 1917---8 A. M.

WEATHER CONDITIONS AND GENERAL FORECAST.

A vigorous cyclonic depression is central this morning over northern Wisconsin moving northeast ward, and a strong anticyclone, attended by low temperature, has overspread the northern Rocky Mountain and Plateau regions. Between these two— the cyclone and the anticyclone— remarkable contrasts in weather obtain. Thunderstorms, with summer temperatures, prevail in the Ohio Valley, and snow is reported from the Dakotas, with freezing temperatures westward to eastern Oregon and Washington.

Rain is indicated during the next 36 hours in Atlantic coast districts. There will be rain to-night in the Lake region, followed by clearing and much colder weather Friday, and it will also be much colder in the Ohio Valley, Tennessee, and the western portion of the East Gulf States Friday.

Storm warnings are displayed on the Great Lakes.

The winds along the New England and middle Atlantic coasts will be fresh southerly, increasing Friday; on the south Atlantic coast moderate southwest to south; on the east Gulf coast light and variable.

Steamers departing to-day for European ports will have fresh southeast winds and rain to the Grand Banks.

FORECAST TILL 8 P. M. FRIDAY.

For New England, rain and warmer to-night and Friday; increasing southerly winds.

For Eastern New York, rain and warmer to-night. Friday clearing; colder in north portion; increasing southerly winds.

For Eastern Pennsylvania, rain and warmer to-night. Friday fair and colder, except rain in northeast portion; increasing south winds, becoming west.

For New Jersey, and **Delaware,** rain to-night. Friday probably fair; increasing southerly winds.

For Maryland, rain and warmer to-night. Friday fair; colder in west portion; fresh south winds, becoming west.

For the District of Columbia, rain and warmer to-night. Friday clearing and colder; fresh southerly winds.

For Virginia, rain and warmer to-night. Friday fair in north and west, probably rain in southeast portion; colder in west portion; fresh south winds, becoming west.

For North Carolina, probably rain and warmer to-night. Friday fair in west, rain in east portion; colder in extreme west portion; increasing southerly winds.

For South Carolina, and **Georgia,** unsettled, probably local rains to-night and Friday; warmer to-night; colder in northwest portion Friday; gentle east to southeast winds.

For Florida, probably local rains to-night and Friday; colder Friday in northwest portion; gentle east to southeast winds.

For Alabama, probably local rains to-night and Friday; cooler to-night in northwest portion; cooler Friday; gentle south winds, becoming northwest.

For Mississippi, local rains and cooler to-night. Friday fair and much cooler; fresh northwest to north winds.

For Tennessee, fair and colder in west, rain in east portion to-night. Friday fair, much colder.

For Kentucky, fair and much colder to-night and Friday.

For West Virginia, probably rain to-night and Friday; colder in west portion to-night; colder Friday.

For Western New York, rain to-night and Friday; colder Friday.

For Western Pennsylvania, probably rain to-night and Friday; colder to-night in north portion; colder Friday.

For Ohio, rain and colder to-night. Friday fair, except snow or rain near Lake Erie; colder.

For Indiana, fair and colder to-night and Friday, except rain or snow in extreme north portion.

For Lower Michigan, rain and colder to-night. Friday clearing and colder; probably snow in north portion.

For Upper Michigan, rain turning into snow, with much colder to-night; Friday partly cloudy, except snow along Lake Superior; colder.

For the Upper Lakes, Lake Superior— strong northwest to north winds; Storm warnings with snow to-night and Friday. Lakes Michigan and Huron— strong northwest winds, with rain turning into snow over north portion Friday; colder.

For the Lower Lakes, fresh to strong south winds to-night, shifting to northwest Friday; rain to-night and probably Friday.

A. J. HENRY, Forecaster.

For Illinois, rain and colder to-night. Friday fair, except snow in northeast portion; colder.

For Wisconsin, east portion— probably rain or snow to-night and Friday; colder. West portion—rain or snow and colder to-night. Friday fair.

For Minnesota, fair in west, snow in east portion to-night; colder. Friday fair; warmer in west portion.

For Iowa, fair to-night, except snow in northeast portion; colder. Friday fair; warmer in west portion.

For Missouri, fair to-night, except rain in extreme east portion; colder. Friday fair; colder in extreme east and warmer in northwest portion.

For Kansas, fair, colder to-night. Friday fair, warmer.

For Nebraska, and **South Dakota,** fair to-night; colder in east and central portions. Friday fair, warmer.

For North Dakota, fair to-night; colder in east and warmer in extreme west portion. Friday fair, warmer.

For Montana, and **Wyoming,** fair, warmer to-night and Friday.

Fresh to strong winds are indicated for Illinois, Missouri, Wisconsin, and Iowa, and strong winds for Minnesota.

For Colorado, fair to-night; warmer in north-central and colder in extreme east portion; Friday fair, warmer.

For New Mexico, fair to-night; colder in north and east portions. Friday rain or snow in east, fair in west portion; warmer in north portion.

For Arizona, fair to-night; colder in southwest portion. Friday fair; warmer in north and east portions.

For Utah, fair to-night. Friday fair, warmer.

Freezing temperatures are indicated for Colorado, northern and eastern New Mexico, northern Arizona, and Utah.

For California, and **Nevada,** fair, warmer to-night and Friday.

For Washington, fair, warmer to-night; killing frost in east portion. Friday fair, except rain near the coast; warmer.

For Idaho, and **Oregon,** fair, warmer to-night and Friday; killing frost to-night.

For Louisiana, fair in northeast, rain in east and south portions to-night; colder in north and west portions. Friday fair and colder; light to moderate south winds, becoming moderate to fresh northwest. Freezing temperature in north portion and frost in sugar and trucking region by Saturday morning.

For Arkansas, fair, colder to-night; cold wave in northwest portion, with freezing temperature. Friday fair; colder in east and south portions.

For Eastern Texas, fair to-night, except rain in southeast portion; colder; freezing temperature in northeast and north-central portions. Friday fair; colder in east and south portions; fresh to strong northerly winds on the coast.

For Western Texas, fair, colder to-night; temperature below freezing in north portion. Friday fair; warmer in the Panhandle and colder in southeast portion.

For Oklahoma, fair, colder to-night with a cold wave; temperature below freezing. Friday fair; warmer in northwest portion.

Observations are taken at 8 a. m. and 8 p. m., 75th meridian time.

Barometer readings are reduced to sea level and standard gravity. 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.

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, ⊠a, ⊠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 will 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.

Statute Miles: 100 50 0 100 200 300 400

Kilometers: 100 50 0 100 200 300 400 500

Reports from Atlantic and Alaskan Stations.

Stations	Pressure.	Temp., dry bulb	Wind. Direction.	Wind. Force.*	Weather.
October 18, 1917.					
Hamilton, Bermuda	30.16	72	ne.	2	rain.
Turks Island, W. I.	29.94	.....	se.	1	p. cloudy.
Havana, Cuba, W. I.	29.98	78	se.	1	clear.
Nassau, N. P., W. I.	30.00	80	ne.	1	clear.
October 17 (local time).					
Honolulu, H. I., 9 p. m.	29.98	76	e.	1	clear.
8 p. m., 135th mer. time.					
Nome, Alaska	29.84	32	ne.	2	cloudy.
Tanana, Alaska	30.02	22	e.	.....	clear.
Eagle, Alaska	30.06	18	nw.	.....	p. cloudy.
Valdez, Alaska	29.90	36	0	.....	rain.
Sitka, Alaska	30.04	46	0	.....	cloudy.
Dutch Harbor, Alaska	29.52	42	0	.....	cloudy.
Junesu, Alaska	30.10	42	e.	1	rain.

*Beaufort scale.

RIVER STAGES 8 a. m., OCTOBER 18, 1917.

Flood stages.	Stations.	Height above zero.	Change.	Remarks.
		Feet.	Feet.	
22	Pittsburgh	6.0	− 0.1	Falling.
56	Parkersburg	11.9	0.0	Rising.
50	Cincinnati	11.8	+ 0.1	Rising.
28	Louisville	8.3	− 0.4	Falling.
85	Evansville	7.1	+ 0.1	Rising.
45	Cairo	7.1	− 0.2	Falling.
16	Terre Haute	− 0.2	0.0	Rising.
16	Peoria	.....	.....	.....
40	Nashville	7.4	0.0	Falling.
83	Chattanooga	8.0	0.0	Falling.
14	Pierre	.....	.....	.....
17	Sioux City	.....	.....	.....
19	Omaha	2.7	0.0	Falling.
22	Kansas City	6.6	0.0	Falling.
14	St. Paul	1.8	+ 0.2	Rising.
12	La Crosse	2.3	+ 0.1	Rising.
18	Dubuque	2.9	+ 0.1	Rising.
15	Davenport	2.2	+ 0.2	Rising.
14	Keokuk	1.3	0.0	Rising.
30	St. Louis	1.8	+ 0.1	Falling.
35	Memphis	4.0	0.0	Falling.
45	Vicksburg	4.5	− 0.2	Falling.
18	New Orleans	4.7	+ 0.3	Rising.
22	Fort Smith	2.6	− 0.2	Falling.
23	Little Rock	− 1.2	− 0.1	Falling.
29	Shreveport	− 4.7	− 0.1	Falling.
32	Augusta	7.3	− 0.1	Falling.

Districts and Stations.	Pressure. Reduced to sea level and standard gravity.	Pressure. Departure from normal. Change in 24 hours.	Temperature. Dry bulb.	Temperature. Change in 24 hours.	Temperature. Highest.	Temperature. Lowest.	Wind velocity, miles per hour.	Precipitation in inches. Rain or melted snow.
ATLANTIC COAST, NEW ENGLAND AND ST. LAWRENCE VALLEY.								
Montreal, Que.	30.32	+ 8	38	− 3	44	36	.....	0
Greenville, Me.	30.46	+ 6	38	+ 3	46	26	.....	0
Eastport, Me.	30.46	+ 10	32	+ 8	46	32	.....	0
Northfield, Vt.	30.42	− 2	42	+ 8	48	32	.....	0
Portland, Me.	30.40	0	42	0	54	38	.....	0
Boston, Mass.	30.44	+ 4	46	+ 2	52	46	.....	01
Nantucket, Mass.	30.42	0	50	+ 2	52	42	.....	0
Block Island, R. I.	30.42	+ 2	52	+ 4	52	44	10	0
Hartford, Conn.	30.42	+ 2	46	+ 4	58	40	.....	0
Canton, N. Y.	30.42	.....	48	+ 8	.....	40	.....	0
Syracuse, N. Y.	30.38	− 14	52	+ 12	54	44	14	01
Binghamton, N. Y.	30.36	.....	52	+ 20	.....	46	.....	02
Albany, N. Y.	30.36	+ 4	52	+ 12	56	46	10	02
New York, N. Y.	30.38	+ 2	54	+ 8	58	50	12	0
Sandy Hook, N. J.	30.36	+ 2	56	+ 8	54	52	14	0
Scranton, Pa.	30.34	− 2	52	+ 16	58	46	.....	0
Harrisburg, Pa.	30.34	− 2	50	+ 6	58	46	.....	0
Philadelphia, Pa.	30.36	− 2	58	+ 2	62	48	.....	0
Atlantic City, N. J.	30.36	− 2	58	+ 8	54	54	.....	0
Baltimore, Md.	30.34	− 4	58	+ 4	60	50	.....	0
WASHINGTON, D. C.	30.30	− 4	58	+ 4	63	48	.....	0
Norfolk, Va.	30.28	0	64	+ 2	68	60	.....	0
Richmond, Va.	30.30	− 2	56	+ 2	68	56	.....	0
Lynchburg, Va.	30.28	− 4	56	0	70	54	.....	0
Wytheville, Va.	30.20	− 4	58	+ 8	72	54	.....	0
Charlotte, N. C.	30.22	− 6	58	+ 4	80	58	.....	0
Asheville, N. C.	30.14	− 6	60	+ 8	74	56	12	0
Raleigh, N. C.	30.24	0	58	+ 8	78	58	.....	0
Hatteras, N. C.	30.22	0	70	+ 10	82	64	14	0
Wilmington, N. C.	30.20	+ 2	64	+ 4	78	60	.....	0
Charleston, S. C.	30.14	+ 2	70	+ 4	76	66	.....	0
Columbia, S. C.	30.18	.....	62	0	.....	60	.....	0
Greenville, S. C.	30.20	.....	60	0	.....	60	.....	0
Augusta, Ga.	30.14	+ 2	68	+ 8	84	66	.....	0
Savannah, Ga.	30.12	+ 2	68	+ 8	80	68	.....	0
Jacksonville, Fla.	30.08	+ 2	72	+ 2	78	70	10	04
Titusville, Fla.	30.04	+ 2	76	+ 2	78	70	.....	0
Miami, Fla.	30.00	+ 2	80	+ 2	82	74	.....	0
Key West, Fla.	29.98	+ 2	82	0	88	76	.....	0
Atlanta, Ga.	30.12	+ 2	64	+ 4	78	62	12	0
Macon, Ga.	30.12	+ 4	66	+ 6	82	66	.....	0
Thomasville, Ga.	30.04	+ 2	72	+ 6	84	68	.....	0
Tampa, Fla.	30.04	+ 2	72	0	86	70	.....	06
Apalachicola, Fla.	30.00	+ 4	74	+ 2	86	72	.....	0
Pensacola, Fla.	29.96	0	74	+ 6	78	70	20	08
Mobile, Ala.	29.94	− 2	72	+ 2	80	70	.....	01
Montgomery, Ala.	30.04	+ 2	70	+ 4	82	68	.....	0
Birmingham, Ala.	30.04	0	70	+ 8	82	68	10	0
Meridian, Miss.	29.98	0	70	+ 4	.....	64	.....	0
Corinth, Miss.	29.96	.....	68	+ 6	.....	.....	.....	0
Vicksburg, Miss.	29.98	− 8	66	+ 2	80	66	.....	0
New Orleans, La.	29.94	0	72	+ 4	80	72	.....	0
Burrwood, La.	29.92	0	74	+ 2	80	72	.....	0
Shreveport, La.	29.90	+ 4	68	+ 4	86	66	10	0
Fort Smith, Ark.	29.80	+ 2	72	+ 8	84	64	.....	01
Little Rock, Ark.	29.86	.....	68	+ 2	84	68	10	0
Palestine, Tex.	.....	.....	.....	.....	86	.....	.....	.....
Port Arthur, Tex.	29.92	.....	70	+ 2	.....	70	.....	0
Galveston, Tex.	29.92	+ 2	74	0	80	74	.....	0
Houston, Tex.	29.90	.....	72	+ 2	.....	72	.....	0
Taylor, Tex.	29.88	.....	72	+ 2	.....	72	.....	0
San Antonio, Tex.	29.86	+ 8	74	+ 2	88	74	.....	0
Corpus Christi, Tex.	29.88	+ 6	76	0	80	76	.....	0
Brownsville, Tex.	29.82	+ 4	74	0	94	74	.....	0
OHIO VALLEY AND TENN.								
Memphis, Tenn.	29.98	+ 4	70	+ 8	82	70	.....	0
Nashville, Tenn.	30.02	+ 6	72	+ 16	82	70	18	0
Chattanooga, Tenn.	30.10	0	66	+ 14	80	66	.....	0
Knoxville, Tenn.	30.12	0	68	+ 14	82	64	.....	0
Lexington, Ky.	30.04	.....	62	+ 4	.....	62	12	0
Louisville, Ky.	30.02	0	70	+ 14	82	70	24	0
Evansville, Ind.	29.92	− 2	72	+ 2	86	62	14	30
Terre Haute, Ind.	29.86	− 6	62	+ 4	78	62	16	44
Indianapolis, Ind.	29.90	− 8	62	+ 8	86	62	16	68
Cincinnati, Ohio	30.00	− 4	64	+ 6	84	64	16	0
Dayton, Ohio	29.96	.....	66	+ 16	.....	64	.....	0
Columbus, Ohio	30.00	− 8	64	+ 18	74	62	20	0
Elkins, W. Va.	30.20	− 4	62	+ 20	76	56	.....	0
Parkersburg, W. Va.	30.14	− 2	62	+ 14	80	60	.....	0
Pittsburgh, Pa.	30.16	− 2	58	+ 14	68	58	.....	0
LAKE REGION.								
Oswego, N. Y.	30.18	− 14	50	+ 8	48	44	14	0
Rochester, N. Y.	30.14	− 14	50	+ 16	.....	42	.....	02
Buffalo, N. Y.	30.10	− 18	60	+ 18	52	42	18	02
Erie, Pa.	30.04	− 14	58	+ 16	58	48	34	02
Cleveland, Ohio	30.02	− 10	60	+ 18	56	54	24	0
Toledo, Ohio	29.92	− 18	62	+ 18	52	50	22	02
Detroit, Mich.	29.90	− 18	62	+ 18	50	50	10	20
Saginaw, Mich.	29.82	.....	58	+ 20	.....	44	14	10
Alpena, Mich.	29.80	.....	48	+ 16	46	46	12	04
Sault Ste. Marie, Mich.	29.80	− 42	44	+ 8	42	40	14	02
Houghton, Mich.	29.86	.....	44	+ 8	.....	42	.....	1.76
Marquette, Mich.	29.60	− 42	46	+ 8	42	42	.....	86
Escanaba, Mich.	29.60	− 40	50	+ 6	48	44	10	72
Green Bay, Wis.	29.68	− 30	58	+ 14	46	46	12	36
Ludington, Mich.	29.68	.....	54	+ 12	46	46	12	36
Grand Haven, Mich.	29.74	− 24	58	+ 14	46	46	18	32
Grand Rapids, Mich.	29.78	− 26	60	+ 18	48	46	.....	22
Fort Wayne, Ind.	29.92	− 12	62	+ 18	58	48	12	16
Chicago, Ill.	29.76	− 18	62	+ 18	58	58	20	46
Milwaukee, Wis.	29.66	− 24	60	+ 12	50	50	16	1.62
Duluth, Minn.	29.58	− 22	40	+ 2	40	40	12	60
St. Paul, Minn.	29.62	− 2	42	0	.....	42	18	34
Madison, Wis.	29.58	+ 10	48	+ 14	60	48	14	12
La Crosse, Wis.	29.64	.....	50	+ 6	.....	50	.....	12
Charles City, Iowa.	29.72	+ 10	46	+ 20	60	46	.....	50
Dubuque, Iowa.	29.72	0	54	+ 8	60	54	.....	04
Davenport, Iowa.	29.72	− 6	58	+ 6	68	58	.....	82
Des Moines, Iowa.	29.78	+ 16	46	+ 4	72	46	10	22
Keokuk, Iowa.	29.76	+ 6	58	+ 4	80	58	10	1.00
Peoria, Ill.	29.76	.....	62	+ 16	.....	60	.....	1.06
Springfield, Ill.	29.76	− 6	62	+ 14	72	62	12	04
St. Louis, Mo.	29.80	0	70	+ 10	82	64	.....	06
Cairo, Ill.	29.88	− 2	70	+ 6	82	70	12	0
MISSOURI VALLEY.								
Springfield, Mo.	29.84	+ 6	54	− 8	80	54	14	04
St. Joseph, Mo.	29.84	+ 32	54	+ 24	72	44	14	20
Kansas City, Mo.	29.92	+ 28	46	− 22	76	46	24	36
Wichita, Kans.	30.02	+ 42	44	− 24	76	44	26	0
Concordia, Kans.	30.10	+ 44	42	− 28	82	42	18	0
Omaha, Nebr.	29.96	+ 30	40	− 14	80	40	24	14
Lincoln, Nebr.	30.02	.....	40	− 12	.....	38	20	0
Valentine, Nebr.	30.28	+ 34	34	− 16	50	26	28	0
Sioux City, Iowa.	29.96	+ 28	36	− 16	70	36	30	0
Huron, S. Dak.	30.08	+ 34	30	− 20	70	30	32	.....
Pierre, S. Dak.	30.28	+ 40	28	− 20	48	28	28	0
Moorhead, Minn.	29.94	+ 16	28	− 14	42	28	24	28
Bismarck, N. Dak.	30.04	+ 32	24	− 14	44	24	14	04
Devils Lake, N. Dak.	30.16	+ 18	24	− 8	32	24	24	62
Williston, N. Dak.	.....	.....	.....	.....	34	.....	.....	.....
ROCKY MOUNTAIN AND PLATEAU REGION.								
Havre, Mont.	30.46	− 22	16	− 14	32	16	.....	02
Billings, Mont.	30.54	.....	16	+ 20	.....	16	.....	02
Helena, Mont.	.....	.....	.....	.....	30	.....	.....	.....
Yellowstone P'k, Wyo	.....	.....	.....	.....	24	.....	.....	.....
Miles City, Mont.	.....	.....	.....	.....	38	.....	.....	.....
Missoula, Mont.	.....	.....	18	− 16	.....	.....	.....	.....
Kalispell, Mont.	30.60	− 8	22	− 8	52	22	.....	0
Lewiston, Idaho	30.56	.....	28	+ 14	.....	28	.....	0
Baker, Oreg.	30.54	.....	22	− 4	.....	20	.....	0
Pocatello, Idaho	30.58	+ 16	16	− 16	40	16	.....	0
Boise, Idaho	30.58	+ 18	30	− 4	50	26	.....	0
Rapid City, S. Dak.	30.46	+ 36	24	− 20	44	22	24	04
Sheridan, Wyo.	30.50	.....	12	− 22	36	12	.....	08
Lander, Wyo.	30.60	+ 16	12	− 16	36	12	.....	02
Salt Lake City, Utah	30.50	+ 18	30	− 8	44	28	.....	0
Modena, Utah	30.50	+ 28	24	− 20	50	22	.....	0
Grand Junction, Colo.	30.38	+ 34	28	− 16	60	28	.....	0
Durango, Colo.	30.14	+ 6	22	− 12	62	20	.....	0
Cheyenne, Wyo.	30.50	+ 38	14	− 28	42	12	12	01
North Platte, Nebr.	30.38	+ 30	30	− 12	66	30	22	01
Denver, Colo.	30.44	+ 40	24	− 22	60	24	.....	08
Pueblo, Colo.	30.44	+ 42	28	− 24	72	28	.....	0
Dodge City, Kans.	30.18	+ 48	38	− 22	84	38	22	0
Oklahoma, Okla.	30.00	+ 36	50	− 16	80	50	26	0
Altus, Okla.	30.04	.....	48	− 20	80	48	.....	0
Muskogee, Okla.	29.92	.....	54	− 10	84	54	.....	08
Amarillo, Tex.	30.16	+ 48	36	− 18	80	36	24	0
Dallas, Tex.	29.94	+ 10	72	+ 8	.....	62	10	01
Fort Worth, Tex.	29.88	+ 14	60	− 6	84	60	14	0
Abilene, Tex.	30.02	+ 32	52	− 16	88	52	10	0
El Paso, Tex.	29.92	+ 12	56	0	74	52	.....	0
Del Rio, Tex.	29.82	.....	70	− 2	.....	70	.....	0
Roswell, N. Mex.	30.16	+ 48	42	− 18	80	42	10	0
Santa Fe, N. Mex.	30.02	+ 32	32	− 6	64	30	.....	0
Flagstaff, Ariz.	30.12	+ 32	24	− 18	60	24	.....	0
Phoenix, Ariz.	30.02	+ 12	58	+ 4	80	54	.....	0
Yuma, Ariz.	30.06	+ 20	66	+ 12	84	62	.....	0
Needles, Cal.	30.30	+ 48	54	− 4	84	52	30	0
PACIFIC SLOPE.								
Tatoosh Island, Wash.	30.46	− 10	46	.....	52	46	.....	0
Spokane, Wash.	30.52	− 6	28	.....	54	28	.....	0
Walla Walla, Wash.	30.48	− 8	38	+ 2	56	34	.....	0
Seattle, Wash.	30.50	− 8	42	+ 2	54	42	.....	0
Portland, Oreg.	30.44	− 4	42	+ 4	58	42	.....	0
North Head, Wash.	30.42	− 10	48	+ 4	58	46	.....	0
Roseburg, Oreg.	30.42	+ 6	32	0	62	32	.....	0
Reno, Nev.	30.46	+ 14	30	− 10	60	30	.....	0
Tonopah, Nev.	30.42	+ 20	30	− 19	48	28	.....	0
Winnemucca, Nev.	30.56	+ 14	20	− 6	50	20	.....	0
Eureka, Cal.	30.16	+ 12	46	+ 2	56	42	.....	0
Red Bluff, Cal.	30.22	+ 10	54	− 2	70	54	.....	0
Sacramento, Cal.	30.14	+ 12	52	+ 4	72	52	.....	0
San Francisco, Cal.	30.12	+ 8	58	+ 4	72	58	.....	0
Fresno, Cal.	30.12	+ 10	48	− 4	72	48	.....	0
San Luis Obispo, Cal.	30.08	+ 10	48	− 2	74	48	.....	0
Los Angeles, Cal.	30.02	0	56	− 4	68	56	.....	0
San Diego, Cal.	30.00	+ 2	56	− 6	68	56	.....	0