FORM MAP C

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU

CHARLES F. MARVIN, CHIEF

DAILY WEATHER MAP

TUESDAY, October 16, 1917. 8 A. M.

SECOND EDITION.

Washington, D. C., Tuesday, October 16, 1917---8 A. M.

WEATHER CONDITIONS AND GENERAL FORECAST.

The pressure distribution this morning is quite irregular and without striking features. The weather has cleared in New England, and there is a marked absence of rain in all parts of the country, save southern Florida. The temperature is high for the season in the interior valleys and the South.

Generally fair and slightly cooler weather is probable in the Washington forecast district during the next 36 hours, except that local rains are indicated in Florida, and the temperature changes in the South will be small and unimportant.

The winds along the New England coast will be moderate westerly; on the middle Atlantic coast moderate northwest; on the south Atlantic coast light and variable; on the east Gulf coast light northeast to east.

Steamers departing to-day for European ports will have moderate southwest winds and fair weather to the Grand Banks.

FORECAST TILL 8 P. M. WEDNESDAY.

For Northern New England, fair and cooler to-night, with frost. Wednesday fair; gentle westerly winds.

For Southern New England, fair and cooler to-night, with frost in western Massachusetts and Connecticut. Wednesday fair; light westerly winds.

For Eastern New York, fair and cooler to-night, with frost in the interior. Wednesday fair; moderate northwest to north winds.

For Eastern Pennsylvania, fair and cooler to-night, with frost. Wednesday fair; cooler in southeast portion; gentle northwest winds.

For New Jersey, and Delaware, fair and cooler to-night, with frost. Wednesday fair, somewhat cooler; gentle northwest winds.

For the District of Columbia, and **Maryland,** fair and somewhat cooler to-night and Wednesday; gentle northwest winds.

For Virginia, fair to-night and Wednesday; cooler to-night and in southeast portion Wednesday; gentle westerly winds.

For North Carolina, fair to-night, Wednesday, and Thursday; cooler to-night; moderate temperatures thereafter; gentle and variable winds.

For South Carolina, fair to-night and Wednesday; somewhat cooler to-night in west portion; light variable winds.

For Georgia, fair to-night and Wednesday, except local rains in extreme south portion to-night; cooler to-night in northwest portion; light northerly winds.

For Florida, local rains to-night and probably Wednesday, except fair in northwest portion; light easterly winds.

For Alabama, fair to-night and Wednesday; not much change in temperature; light east to southeast winds.

For Mississippi, fair to-night, Wednesday, and probably Thursday; not much change in temperature; gentle southeast winds.

For Tennessee, fair to-night; cooler in northeast portion. Wednesday partly cloudy.

For Kentucky, partly cloudy to-night and Wednesday; cooler to-night in east portion.

For West Virginia, fair and cooler to-night. Wednesday partly cloudy.

For Western New York, fair to-night and Wednesday; slightly cooler to-night, with frost in the interior.

For Western Pennsylvania, fair and cooler to-night. Wednesday partly cloudy.

For Ohio, fair and slightly cooler to-night. Wednesday partly cloudy.

For Indiana, fair, continued cool to-night, with frost in exposed places in north portion. Wednesday partly cloudy.

For Lower Michigan, fair to-night and Wednesday; continued cool to-night, with frost and freezing temperature in the interior.

For Upper Michigan, partly cloudy to-night and Wednesday; continued cool.

For the Upper Lakes, fresh northwest winds to-night, diminishing Wednesday; fair weather.

For the Lower Lakes, fresh west to southwest winds; fair weather to-night and Wednesday.

A. J. HENRY, Forecaster.

For Illinois, and **Missouri,** fair to-night and Wednesday.

For Wisconsin, fair to-night; warmer in southwest portion. Wednesday fair; warmer in south portion.

For Minnesota, fair to-night, except rain in northwest portion; warmer. Wednesday rain.

For Iowa, fair to-night; warmer in north portion. Wednesday fair, warmer.

For Kansas, fair to-night; warmer in west portion. Wednesday fair.

For Nebraska, fair to-night; warmer in west and north portions. Wednesday fair; colder in west portion.

For South Dakota, fair in south, probably rain in north portion to-night and Wednesday; warmer to-night; colder in west portion Wednesday.

For North Dakota, probably rain to-night and Wednesday; warmer to-night; colder in west portion Wednesday.

For Montana, fair to-night; colder west of the Divide. Wednesday fair; colder east of the Divide.

For Wyoming, fair in south, rain or snow in north portion to-night; colder in west portion to-night. Wednesday fair, colder.

For Colorado, fair to-night; warmer in east portion. Wednesday fair, except rain in north-central portion; colder. Fire weather warnings have been issued for north-central portion.

For New Mexico, and **Arizona,** fair to-night and Wednesday.

For Utah, fair to-night; colder in west portion. Wednesday fair, colder.

For California, and **Nevada,** fair to-night and Wednesday.

For Washington, and **Oregon,** fair to-night and Wednesday; cooler to-night in east portions.

For Idaho, fair to-night and Wednesday; cooler to-night.

For Louisiana, fair to-night and Wednesday; light variable winds on the coast.

For Arkansas, and **Oklahoma,** fair to-night. Wednesday fair; warmer in north portions.

For Texas, fair to-night and Wednesday; light southerly winds on the coast.

Rice and alfalfa forecast: Probably fair Thursday and Friday in Louisiana and Texas.

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, Ra, Rp, 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.

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 15, 1917.					
Hamilton, Bermuda					
Turks Island, W. I.					
Havana, Cuba, W. I.	29.94	78	se.	1	cloudy.
Nassau, N. P., W. I.					
October 15 (local time).					
Honolulu, H. I., 9 p. m.	29.92	74	e.	1	clear.
8 p. m., 135th mer. time.					
Nome, Alaska	30.06	28	no.		p. cloudy.
Tanana, Alaska	30.14	24	0		cloudy.
Eagle, Alaska					
Valdez, Alaska	30.10	30	0		clear.
Sitka, Alaska	29.98	36	no.		clear.
Dutch Harbor, Alaska					
Juneau, Alaska	30.00	34	n.	1	clear.

*Beaufort scale.

RIVER STAGES 8 a. m., OCTOBER 16, 1917.

Flood stages.	Stations.	Height above zero.	Change.	Remarks.
Feet.		*Feet.*	*Feet.*	
22	Pittsburgh	6.0	− 0.1	Falling.
36	Parkersburg	11.0	− 0.6	Falling.
50	Cincinnati	12.1	+ 0.2	Rising.
28	Louisville	8.7	0.0	Falling.
35	Evansville	2.6	− 0.1	Falling.
45	Cairo	6.6	0.0	Falling.
16	Terre Haute	− 0.2	0.0	Falling.
16	Peoria			
40	Nashville	7.4	0.0	Falling.
88	Chattanooga	8.0	0.0	Falling.
14	Pierre			
17	Sioux City			
19	Omaha	7.7	0.0	Falling.
22	Kansas City	6.6	0.0	Falling.
14	St. Paul	2.1	+ 0.1	Rising.
12	La Crosse	2.2	0.0	Falling.
18	Dubuque	2.8	0.0	Rising.
15	Davenport	1.9	+ 0.1	Rising.
14	Keokuk	1.2	0.0	Falling.
30	St. Louis	1.8	− 0.1	Falling.
35	Memphis	4.1	− 0.1	Falling.
45	Vicksburg	5.0	− 0.3	Falling.
18	New Orleans	4.4	+ 0.4	Rising.
22	Fort Smith	2.8	0.0	Falling.
23	Little Rock	1.0	− 0.4	Falling.
29	Shreveport	4.6	0.0	Falling.
32	Augusta	7.5	− 0.3	Falling.

Temperature.

Districts and Stations.	Reduction to sea level.	Amount in 12 hours.	Dry bulb.	Change in 24 hours.	Highest yesterday.	Lowest last night.	Wet bulb.	Precipitation in inches.
LOW								
Montreal, Que.	29.88	− 6	42	− 4	56	38	22	.10
Grenville, Me.	29.80	+16	40	.....	46	34	.....	.48
Eastport, Me.	29.82	+12	46	− 2	52	44	14	.12
North Head, N. B.	29.94	+16	46	0	52	34	.....	.26
Portland, Me.	29.92	+16	48	− 4	54	44	.....	.06
Boston, Mass.	29.96	+14	54	.....	66	52	.....	.04
Nantucket, Mass.	29.94	+ 8	56	0	62	52	.....	0
Block Island, R. I.	29.96	+12	56	0	62	52	10	0
Hartford, Conn.	29.98	+12	54	0	62	52	.....	.04
Catskill, N. Y.	29.94	.....	42	− 10	.....	38	16	.18
Syracuse, N. Y.	29.98	+12	46	− 6	56	42	12	.08
Binghamton, N. Y.	30.02	.....	44	− 2	.....	42	.....	.10
Albany, N. Y.	30.00	+16	50	− 2	66	46	.....	.10
New York, N. Y.	29.98	+12	56	+ 4	66	56	.....	0
Sandy Hook, N. J.	30.00	+14	56	+ 4	66	56	.....	0
Scranton, Pa.	30.02	+14	54	+ 2	62	52	.....	.08
Harrisburg, Pa.	30.06	+20	52	+ 8	72	54	.....	0
Philadelphia, Pa.	30.02	+16	62	+ 8	70	58	.....	0
Atlantic City, N. J.	30.02	+16	58	+ 6	64	54	.....	0
Baltimore, Md.	30.04	+16	58	+ 2	76	56	.....	0
WASHINGTON, D. C.	30.04	+14	54	+ 2	78	54	.....	0
Norfolk, Va.	30.04	+ 6	66	+ 6	72	54	.....	0
Richmond, Va.	30.02	+ 8	56	+ 8	76	54	.....	0
Lynchburg, Va.	30.04	+ 6	60	+16	78	52	.....	0
Wytheville, Va.	30.10	+ 6	54	+ 6	68	52	.....	0
Charlotte, N. C.	30.08	+ 4	66	+ 8	74	54	.....	0
Asheville, N. C.	30.14	+ 4	48	+12	74	44	.....	0
Raleigh, N. C.	30.06	+ 6	60	+12	74	54	.....	0
Hatteras, N. C.	30.08	+ 6	68	+ 8	72	60	.....	0
Wilmington, N. C.	30.08	+ 4	66	+ 2	78	64	.....	0
Charleston, S. C.	30.08	+ 6	62	+ 2	76	60	.....	0
Columbia, S. C.	30.10	.....	56	+14	.....	50	.....	0
Greenville, S. C.	30.10	.....	60	+14	.....	50	.....	0
Augusta, Ga.	30.08	+ 4	54	0	78	50	.....	0
Savannah, Ga.	30.10	+ 4	62	0	76	60	.....	0
Jacksonville, Fla.	30.04	.....	70	0	74	64	.....	0
Tampa, Fla.	29.96	− 4	76	+ 8	78	74	.....	.02
Miami, Fla.	29.96	− 2	80	0	82	74	12	.12
Key West, Fla.	29.92	.....	80	0	86	78	10	.04
Atlanta, Ga.	30.10	+ 2	60	+ 6	76	60	.....	0
Macon, Ga.	30.08	+ 4	56	+ 6	76	52	.....	0
Thomasville, Ga.	30.02	.....	66	+ 4	76	62	.....	0
Tampa, Fla.	29.96	− 6	72	+ 8	74	70	.10	.18
Apalachicola, Fla.	30.00	+ 2	68	− 2	74	64	.....	0
Pensacola, Fla.	30.00	+ 2	66	+ 2	74	64	14	.08
Mobile, Ala.	30.00	+ 2	66	+ 4	78	66	.....	0
Montgomery, Ala.	30.08	+ 6	60	+ 8	76	58	.....	0
Birmingham, Ala.	30.10	+ 6	64	+10	80	60	.....	0
Meridian, Miss.	30.04	+ 4	60	+ 6	78	58	.....	0
Corinth, Miss.	30.02	.....	48	− 4	80	62	.....	0
Vicksburg, Miss.	30.04	+ 6	62	+ 6	80	62	.....	0
New Orleans, La.	29.96	+ 2	70	+ 4	78	68	.....	0
Burrwood, La.	29.90	− 2	72	+ 2	76	70	.....	.02
Shreveport, La.	29.98	+ 6	62	+ 4	82	60	.....	0
Fort Smith, Ark.	29.98	+ 6	60	+ 4	90	60	12	0
Little Rock, Ark.	29.98	+ 6	60	+ 2	82	58	.....	0
Palestine, Tex.	29.96	+ 4	62	+ 2	82	62	.....	0
Fort Arthur, Tex.	29.94	.....	64	+ 2	.....	62	.....	0
Galveston, Tex.	29.96	− 2	66	− 2	72	66	.....	0
Houston, Tex.	29.94	.....	64	− 2	.....	64	.....	0
Taylor, Tex.	29.92	.....	70	+ 2	.....	66	10	0
San Antonio, Tex.	29.92	+ 2	70	+ 4	88	66	.....	0
Corpus Christi, Tex.	29.92	0	72	+ 4	80	66	.....	0
Brownsville, Tex.	29.88	0	68	+ 2	90	66	.....	0
Memphis, Tenn.	30.06	+ 6	60	0	78	60	10	0
Nashville, Tenn.	30.10	+10	54	− 2	80	54	.....	0
Chattanooga, Tenn.	30.14	+ 6	50	+ 6	78	48	.....	0
Knoxville, Tenn.	30.12	+ 8	52	+ 6	74	46	.....	0
Lexington, Ky.	30.06	.....	60	+ 4	.....	50	10	0
Louisville, Ky.	30.08	+14	56	0	78	54	.....	0
Evansville, Ind.	30.02	+ 8	56	− 4	82	56	.....	0
Terre Haute, Ind.	30.06	+18	48	− 8	82	48	.....	0
Indianapolis, Ind.	30.10	+16	52	− 8	76	48	10	0
Cincinnati, Ohio.	30.08	+16	52	− 4	76	50	.....	.06
Dayton, Ohio.	30.08	.....	46	− 8	.....	46	.....	.04
Columbus, Ohio.	30.08	+14	52	− 2	74	48	.....	0
Elkins, W. Va.	30.04	+10	60	0	78	52	.....	.04
Parkersburg, W. Va.	30.10	+12	54	− 6	74	52	.....	0
Pittsburgh, Pa.	30.06	+12	52	− 6	68	52	.....	0
Oswego, N. Y.	29.96	+12	42	−10	56	40	.....	.08
Rochester, N. Y.	30.02	.....	42	−12	.....	40	.....	.12
Buffalo, N. Y.	30.00	+12	46	− 6	54	46	20	.12
Erie, Pa.	30.04	+16	50	− 2	56	42	14	.02
Cleveland, Ohio.	30.10	+18	48	− 8	58	46	.....	0
Toledo, Ohio.	30.12	+16	46	− 8	66	44	.....	0
Detroit, Mich.	30.10	+16	42	− 8	62	40	10	0
Saginaw, Mich.	30.12	.....	36	− 6	54	34	.....	0
Alpena, Mich.	30.06	+18	36	− 6	54	34	.....	.04
Sault Ste. Marie, Mich.	30.00	+16	40	0	44	38	18	.02
Houghton, Mich.	30.08	.....	38	− 4	.....	36	16	0
Marquette, Mich.	30.12	+26	38	− 2	50	36	.....	.01
Escanaba, Mich.	30.12	+26	36	0	44	34	.....	.01
Green Bay, Wis.	30.14	+26	34	− 6	50	34	10	0
Ludington, Mich.	30.12	.....	44	− 4	54	42	.....	0
Grand Haven, Mich.	30.14	+22	44	− 8	54	40	.....	0
Grand Rapids, Mich.	30.14	+20	38	−10	58	36	.....	0
Fort Wayne, Ind.	30.12	+14	44	− 6	62	44	.....	0
Chicago, Ill.	30.18	+26	46	− 8	64	46	10	0
Milwaukee, Wis.	30.16	+26	40	− 8	62	40	.....	0
Duluth, Minn.	30.14	+20	30	− 4	52	30	16	0
St. Paul, Minn.	30.18	+18	34	− 8	.....	34	.....	0
Madison, Wis.	30.18	+24	42	− 4	62	40	.....	0
La Crosse, Wis.	30.20	.....	30	− 8	.....	30	.....	0
Charles City, Iowa.	30.20	+20	30	−14	64	30	.....	0
Dubuque, Iowa.	30.20	+24	38	− 4	64	36	.....	0
Davenport, Iowa.	30.16	+20	46	− 2	68	46	.....	0
Des Moines, Iowa.	30.14	+16	44	− 6	70	44	.....	0
Keokuk, Iowa.	30.14	+22	46	− 4	74	46	.....	0
Peoria, Ill.	30.14	.....	46	− 2	.....	42	.....	0
Springfield, Ill.	30.10	+20	46	− 6	76	46	.....	0
St. Louis, Mo.	30.06	+18	54	− 6	82	52	12	0
Cairo, Ill.	30.00	+10	58	− 2	84	58	.....	0
Springfield, Mo.	29.96	+ 8	58	− 2	84	58	.....	0
St. Joseph, Mo.	30.08	+12	52	− 2	80	52	10	0
Kansas City, Mo.	30.04	+14	62	+ 6	82	52	16	0
Wichita, Kans.	29.82	+ 2	56	+ 2	88	56	12	0
Concordia, Kans.	30.00	+ 6	50	− 6	78	50	12	0
Omaha, Nebr.	30.10	+ 8	46	− 6	70	44	.....	0
Lincoln, Nebr.	30.10	.....	40	0	.....	38	.....	0
Valentine, Nebr.	30.08	.....	34	− 6	64	32	.....	0
Sioux City, Iowa.	30.14	+ 6	42	0	64	38	.....	0
Huron, S. Dak.	30.16	+ 4	40	− 6	58	40	.....	0
Pierre, S. Dak.	30.12	+ 2	40	−10	64	40	.....	0
Moorhead, Minn.	30.20	+14	18	− 24	64	18	.....	0
Bismarck, N. Dak.	30.14	0	34	− 6	54	28	.....	0
Devils Lake, N. Dak.	30.14	+ 6	20	−14	52	20	.....	0
Williston, N. Dak.	30.04	+ 6	32	− 4	52	26	14	0
Havre, Mont.	29.74	−32	44	+ 2	50	40	.....	0
Billings, Mont.	29.84	.....	36	+ 4	58	36	.....	0
Helena, Mont.	29.74	−18	34	− 6	68	34	.....	0
Yellowstone P'k, Wyo	29.62	−22	46	+12	64	38	10	0
Miles City, Mont.								
Missoula, Mont.			42	+ 2	.....			0
Kalispell, Mont.	29.60	−20	40	− 2	62	40	.....	0
Lewiston, Idaho.	29.82	.....	56	+12	.....	46	12	0
Baker, Oreg.	29.86	.....	46	+ 6	.....	38	.....	0
Pocatello, Idaho.	29.74	− 6	44	− 4	74	44	.....	0
Boise, Idaho.	29.82	− 4	46	− 2	74	44	.....	0
Rapid City, S. Dak.	29.98	−12	36	−10	56	36	.....	0
Sheridan, Wyo.	29.82	−16	28	−12	60	28	.....	0
Lander, Wyo.	29.78	− 6	36	− 2	70	34	.....	0
Salt Lake City, Utah.	29.74	−10	54	+ 4	76	54	.....	0
Modena, Utah.	29.82	− 4	42	+ 2	72	40	16	0
Grand Junction, Colo.	29.84	− 4	48	+ 2	74	46	.....	0
Durango, Colo.	29.88	+ 4	32	0	76	32	.....	0
Cheyenne, Wyo.	29.88	− 4	36	−10	64	36	.....	0
North Platte, Nebr.	30.06	0	36	− 6	66	36	.....	0
Denver, Colo.	29.90	0	38	− 8	72	38	.....	0
Pueblo, Colo.	29.94	+ 6	38	−10	76	38	.....	0
Dodge City, Kans.	29.88	+ 6	46	− 8	86	46	10	0
Oklahoma, Okla.	29.76	0	64	+ 6	88	62	.....	0
Altus, Okla.	29.76	.....	62	+ 6	96	62	.....	0
Muskogee, Okla.	29.86	.....	60	+ 2	88	60	.....	0
Amarillo, Tex.	29.84	+ 4	52	0	88	52	.....	0
Dallas, Tex.	29.88	+ 6	64	− 2	.....	64	.....	0
Fort Worth, Tex.	29.86	+ 4	64	0	90	64	.....	0
Abilene, Tex.	29.82	+ 2	68	+ 4	96	68	.....	0
El Paso, Tex.	29.80	0	62	+ 8	88	60	.....	0
Del Rio, Tex.	29.86	.....	66	+ 2	.....	66	12	0
Roswell, N. Mex.	29.82	+ 6	50	+ 2	88	50	.....	0
Santa Fe, N. Mex.	29.80	− 6	48	0	72	48	.....	0
Flagstaff, Ariz.	29.86	− 6	46	− 6	76	46	.....	0
Phoenix, Ariz.	29.82	− 4	56	− 6	84	56	.....	0
Yuma, Ariz.	29.86	− 2	64	+ 4	84	64	.....	0
Nemoca, Cal.	29.82	+ 2	56	− 4	86	56	.....	0
Tatoosh Island, Wash.	30.06	+ 2	48	0	52	48	34	0
Spokane, Wash.	29.72	−12	50	+ 4	70	48	16	0
Walla Walla, Wash.	29.90	+ 4	52	− 4	72	52	.....	0
Seattle, Wash.	30.00	− 4	46	− 2	56	46	12	.10
Portland, Oreg.	30.14	+10	50	− 4	58	48	.....	.01
North Head, Wash.	30.10	+ 4	48	− 6	66	48	32	.01
Roseburg, Oreg.	30.14	+18	48	+ 6	72	48	.....	0
Reno, Nev.	29.84	+ 6	48	+ 6	78	44	.....	0
Winnemucca, Nev.	29.82	− 4	50	− 2	68	50	.....	0
Winnemucca, Nev.	29.86	0	34	0	78	32	.....	0
Eureka, Cal.	30.06	+ 2	50	0	56	50	.....	0
Red Bluff, Cal.	30.00	+ 6	52	− 4	68	50	.....	0
Sacramento, Cal.	29.98	+ 2	50	− 4	68	50	.....	0
San Francisco, Cal.	30.00	− 2	58	0	62	56	.....	0
Fresno, Cal.	29.96	+ 2	56	+ 2	76	54	12	0
San Luis Obispo, Cal.	30.02	0	58	+ 2	72	56	.....	0
Los Angeles, Cal.	29.96	− 4	60	− 2	72	60	.....	0
San Diego, Cal.	29.94	.....	62	− 2	.....	62	.....	.16

LAKE REGION. OHIO VAL. AND TENN. ATLANTIC COAST STATES AND ST. LAWRENCE VALLEY. GULF STATES. UP. MISS. VAL. MISSOURI VALLEY. ROCKY MOUNTAIN AND PLATEAU REGION. PACIFIC SLOPE.