

# WEEKLY WEATHER AND CROP BULLETIN

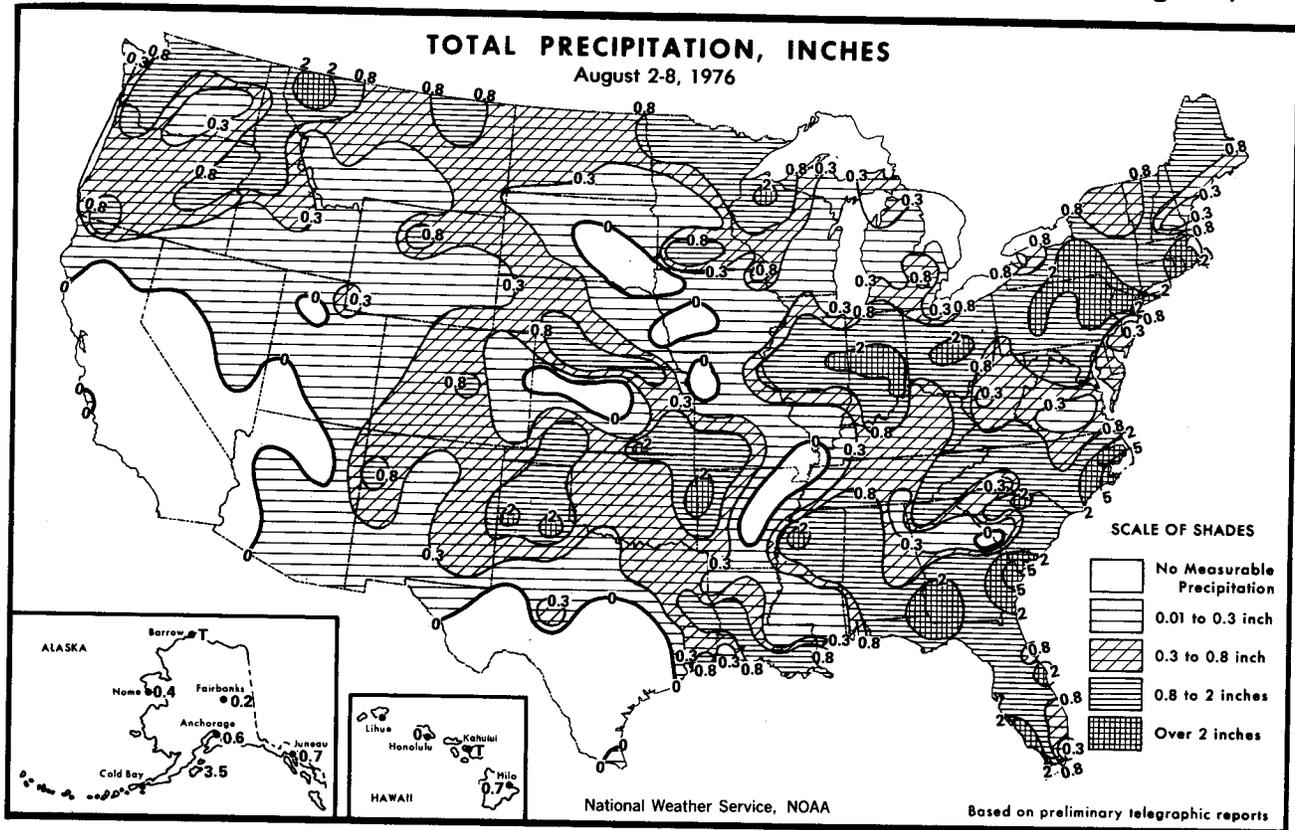
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## National Weather Summary

For the week of August 2 to August 8

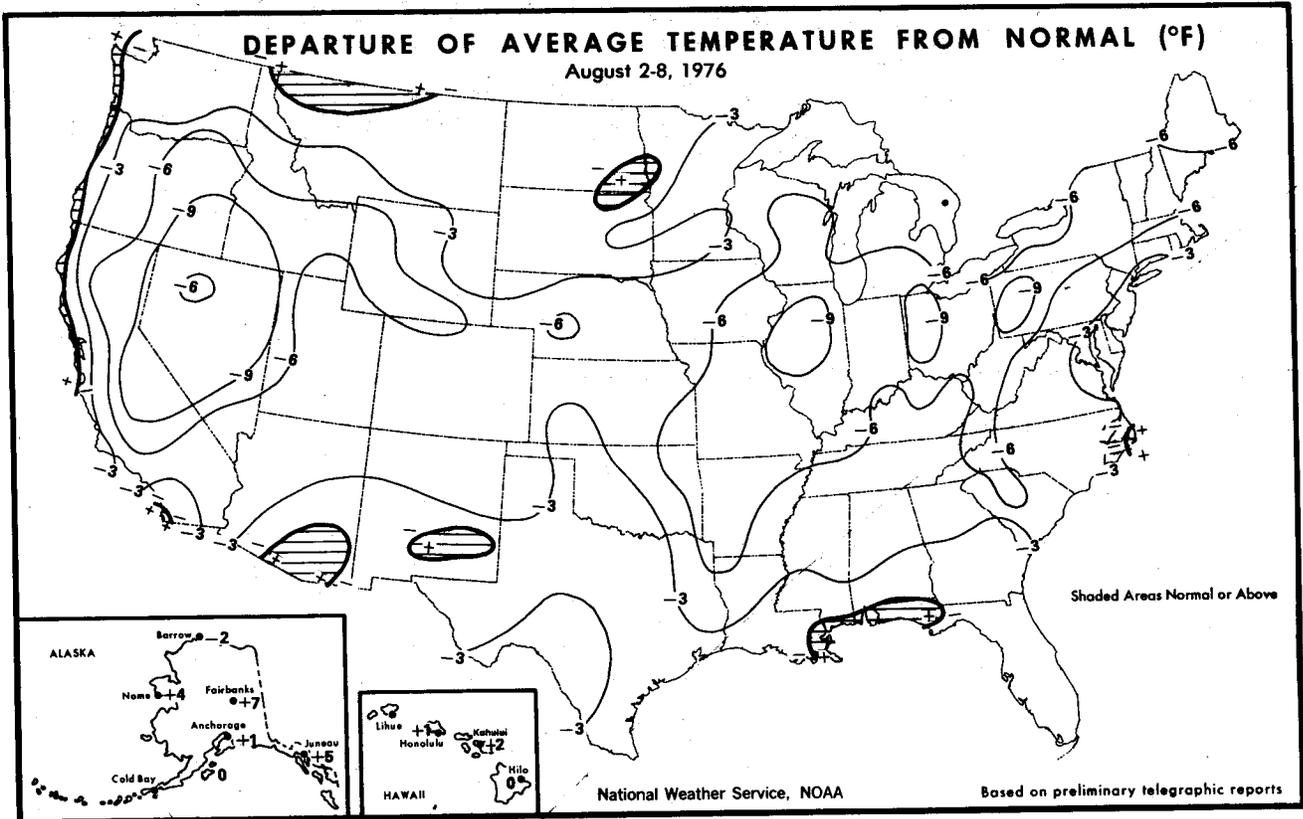
**HIGHLIGHTS:** Abnormally low temperatures cooled the Northeast early in the week. Later, the cooling trend pressed over other portions of the Nation. Flagstaff, Ariz. plunged to a low of 35°, while nearby Casa Grande hit the Nation's high of 113°. Atlantic Coast weather observers focused on the first hurricane of the season, Belle.

A high pressure system over North Dakota spread eastward with mostly clear skies and cool temperatures early Monday morning. The mercury slipped to the 40's and 50's over a wide area from the northern Plains into the northern and middle Atlantic States. Philipsburg, Pa. fell to the low for the Nation with only 34°, while local record lows included Albany, N.Y. at 45°, Pittsburgh, Pa. at 47°, Binghamton, N.Y. at 48°, and Ohio's Akron and Columbus at 50°.

The break from summer heat remained over most of the Nation throughout the day. Maximum temperatures lingered in the 80's, with 70's in the Great Lakes area, through the Ohio Valley, the northern half of the Atlantic Coast States, New England, and the Pacific Northwest. A few readings in the 60's covered the upper Great Lakes region, while the 90's were restricted to Texas and other portions of the Southwest.

Widely scattered thundershowers, accompanied cool temperatures, over the Rockies, the Plateau, and the Pacific Northwest. Other thunderstorms stretched from the southern half of the Atlantic Coast through the Gulf Coast area. Scattered thundershowers provided some relief from the 90° temperatures in southwestern Texas.

The massive high pressure center pushed eastward over Illinois dropping temperatures to record lows over a large portion of the Nation



through Monday night and early Tuesday morning. Autumn-like readings encompassed the New York communities of Newcomb with only 29°, the Nation's low, and Saranac Lake at 33°; while Philipsburg, Pa. experienced another low reading of 35°.

Scattered showers and thunderstorms rumbled from the Rockies, through the Coastal Range, and the Cascades. Thunderstorms also spread along the Gulf of Mexico Coast, through Florida, and up the southern half of the Atlantic Coast. In a 6-hour period, about 3 1/2 inches of rain drenched Savannah, Ga., and a little more than 2 inches fell on Clovis, N.M.

Skies remained fair through the Appalachians, the Great Lakes region, the eastern portion of the Plains, and over the northern two-thirds of the Mississippi and Ohio Valleys into Tennessee, as the high pressure center brought cooler air from southeastern Canada. Fair skies in the Southwest allowed Tuesday afternoon temperatures to reach and surpass the 100 degree mark in the Desert area. Casa Grande, Ariz. scored the high reading for the Nation with 110°.

High pressure areas controlled the weather across much of the Nation Wednesday and brought mostly sunny skies and pleasant temperatures. Early morning readings dipped to lows of 38° at Reno, Nev., 39° at Flagstaff, Ariz. and Gunnison, Colo., 47° at Toledo, Ohio, and Texas lows of 63° at the Houston Airport and 64° at Beaumont.

Fair and mild weather continued from the northern and middle Atlantic States to the middle and lower Mississippi Valley with afternoon readings in the 70's and 80's. Nearly clear skies reached from the western Plains into the California interior.

Another cool Canadian air mass moved into the North Central States Thursday and kept temperatures in the middle 60 to 70 degree range over eastern Montana, the Dakotas, Minnesota, and northern Wisconsin. In contrast, readings ranged from the 70's to the middle 80's in Nebraska and Iowa.

Showers and thundershowers preceded the cooler air through the central Plains, the middle Mississippi Valley, and into the Great Lakes region. Scattered thundershowers stretched along the Gulf Coast, as a few rainshowers fell in the Pacific Northwest.

Mostly clear skies and seasonable temperatures prevailed over California, the southern two-thirds of the Rockies, and the southern portion of the Plains. Partly cloudy to cloudy conditions remained throughout the rest of the Nation.

A cold front stretched from New England through the Ohio Valley, into the Central Plains early Friday morning and triggered shower and thundershowers in those areas. A cooler air mass followed to the north of the cold front and resulted in record lows of 38° at Sault Saint Marie, Mich., 43° at Bismark, N. Dak., and 46° at Huron, S. Dak.

Sunny skies and seasonable temperatures covered most of the western half of the Nation Friday afternoon. Arizona hit record highs of 105° in Saford and 113° in Casa Grande.

Weekend weather included high winds, some rain, and unseasonably cool temperatures. Major attention focused on Hurricane Belle, the first hurricane of the season, as she plowed her way along the Atlantic Coast.

## National Agricultural Summary

For Week of August 2-8

**HIGHLIGHTS:** Soil moisture shortages persisted throughout much of the Nation. Showers generally favored crop development, except in the Dakotas, parts of several adjacent States, and Virginia. Soybean development equalled last year but surpassed the average. Corn in the eastern North Central States fared better than corn elsewhere in the United States. Cotton needs warmer temperatures to speed development, which lags previous years progress in many States.

**SMALL GRAINS:** Winter wheat harvest was virtually completed. In Montana, one of the few remaining States harvesting the winter wheat crop, combining totaled 30% complete compared with less than 5% last year and a normal 20%. Farmers tilled virtually all the wheat stubble land in Oklahoma at least once. In Illinois 38% of the harvested wheat land was plowed, ahead of 1975's 36% and the 34% average.

Combining of the Nation's spring wheat advanced far ahead of last year and the average. In Minnesota combining reached 54% complete, about triple 1975's 19% and 17% average. In North Dakota harvest stood at 30%, over three times the 9% normal. The South Dakota crop hit 92% combined, well ahead of the near 70% figure for last year and average. About 10% of the Montana crop was combined but only 35% of the crop had reached the ripe stage.

**CORN:** The Nation's corn crop rated fair to good condition. Shower activity aided the corn, particularly in the eastern North Central States where some of the crop was listed in excellent condition. Throughout the North Central States corn in the dough stage ranged from 10% in Minnesota to 50% in Illinois. Ten percent of the Kansas crop reached the dent stage. In the South, harvest continued actively from Texas to Florida. In Texas harvest attained 14% complete compared with 7% in 1975 and 11% average.

In Wisconsin corn recovered well on heavier soils where the drought did not affect the crop as severely as on lighter soils. Late corn will provide more forage than expected earlier. In South Dakota corn burned badly with no general rains to break the drought. Many fields were lost for grain and some won't make silage. The Iowa corn crop condition held steady at fair to good. Pollination remained good, depending on moisture supplies.

**SOYBEANS:** The U. S. soybean crop condition ranged from fair to good with some of the Ohio crop in excellent condition. Generally in the North Central States, crop development exceeded the average rate, but lagged last year's performance in many of these States. In Illinois, 90% of the crop bloomed, compared with 98% in 1975 and 80% average. Podding hit 65%, behind last year's 84% but ahead of the 51% average. In Iowa podding reached 77%, compared with 72% in 1975 and 65% average.

In the South Central States a third of the crop was setting pods. Only Oklahoma's late crop stood at a low 10% setting pods.

**COTTON:** Fair to good described the Nation's cotton crop, although development lagged previous

years' progress except in Oklahoma. In some areas the cotton needed warmer temperatures to advance maturity more rapidly. Along the Atlantic Coast most of the crop finished setting bolls. In the eastern South Central States boll set achieved about 67% completed far behind previous years. In Oklahoma boll set reached 50% complete, compared with 28% last year and the 42% average. Texas farmers picked 1% of their crop behind 1975's 3% and 2% average. On the Texas High Plains, the crop bloomed. Defoliation started in most southern areas of Texas.

**OTHER CROPS:** Good characterized condition of the Nation's sorghum crop which rated an excellent mark in Texas, where 34% of the crop was harvested, less than both 1975's 42% and the 37% average. Elsewhere in the major producing States heading advanced and ranged from 30% in Kansas to 58% in Oklahoma. Last year at this time from 30 to 72% of the crop was headed. In Kansas only a few heads began changing color, but in earlier years 5% showed a color change.

Potato farmers in Aroostook County, Maine sprayed to control insects and diseases; minimal pest damage occurred.

The U. S. rice crop reached good condition. Early rice headed in Arkansas. Clear, dry weather aided the Texas harvest as growers combined 45% of the crop, surpassing both 1975's 40% and the 37% average.

The Nation's peanut crop rated a good condition in major areas, but the Georgia and Virginia crops showed some deterioration. The Texas harvest advanced to 5% complete compared with 3% last year and 7% average. In Oklahoma, 88% of the acreage bloomed and 42% was pegging.

**FRUITS AND NUTS:** Peach harvest continued throughout the U. S. In South Carolina and Georgia harvest neared completion. California peach picking returned to normal after the cannery strike. Early apple harvest extended into Wisconsin and Pennsylvania. The Nation's citrus groves achieved a good to excellent condition. Some old crop valencia oranges moved to market from California and Florida; elsewhere harvests were complete. A few California lemons were picked.

**VEGETABLES:** Summer vegetable harvests across the northern United States included snap beans, tomatoes, sweet corn, and cucumbers. Florida vegetable growers transplanted tomatoes, eggplants, and seeded peppers. Arizona growers were planting the fall lettuce crop. The Washington green pea harvest reached its peak. The California processing tomato harvest pushed northward. A variety of vegetables moved from Texas production areas, while fall planting advanced in southern and eastern areas.

**PASTURES AND LIVESTOCK:** Nationwide grasslands rated fair to good. However, in some areas, including the Dakotas, Missouri, California, and Virginia, pastures remained poor and forced some cattlemen to dip into hay supplies.

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., August 8, 1976

States and Stations	Temperature °F		Precipitation Inches		States and Stations	Temperature °F		Precipitation Inches		States and Stations	Temperature °F		Precipitation Inches	
	Average	Departure	Total	Departure		Average	Departure	Total	Departure		Average	Departure	Total	Departure
ALA.Birmingham . . .	76	- 4	.8	-. 3	La.Baton Rouge . . .	81	- 1	.2	-1.0	Youngstown . . . .	63	- 8	1.4	+. 6
Mobile . . . . .	83	+ 1	.1	-1.6	Lake Charles . . .	81	- 2	.2	-1.0	OKLA.Okla. City . .	80	- 3	.6	+. 1
Montgomery . . . .	79	- 2	.6	-. 2	New Orleans . . . .	83	0	1.4	+. 1	Tulsa . . . . .	76	- 7	.6	0
ALASKA.Anchorage . .	59	+ 1	.6	+. 1	Shreveport . . . .	77	- 7	T	-. 6	OREG.Astoria . . . .	63	+ 2	.1	-. 2
Barrow . . . . .	37	- 2	T	-. 3	MAINE.Caribou . . .	59	- 5	1.0	+. 1	Burns . . . . .	59	- 9	1.0	+. 9
Fairbanks . . . . .	65	+ 7	.2	-. 3	Portland . . . . .	62	- 6	.1	-. 5	Medford . . . . .	67	- 5	.8	+. 7
Juneau . . . . .	60	+ 5	.7	-. 4	MD.Baltimore . . .	74	- 2	.7	-. 3	Pendleton . . . . .	67	- 6	.4	+. 3
Kodiak . . . . .	56	0	3.5	+2.7	MASS.Boston . . .	68	- 5	2.1	+1.4	Portland . . . . .	64	- 4	1.6	+1.5
Nome . . . . .	54	+ 4	.4	-. 4	Chatham . . . . .	66	- 2	1.6	-. 4	Salem . . . . .	64	- 3	.5	+. 4
ARIZ.Flagstaff . . .	61	- 4	.2	-. 4	MICH.Alpena . . . .	63	- 3	.2	-. 4	PA.Allentown . . . .	69	- 4	3.5	+2.5
Phoenix . . . . .	90	- 1	T	-. 3	Detroit . . . . .	67	- 5	T	-. 8	Erie . . . . .	63	- 6	1.2	+. 4
Tucson . . . . .	86	+ 1	.1	-. 5	Flint . . . . .	65	- 5	.5	-. 2	Harrisburg . . . . .	71	- 4	1.9	+1.1
Winslow . . . . .	75	- 3	T	-. 4	Grand Rapids . . .	65	- 7	.5	-. 1	Philadelphia . . . .	74	- 2	.5	-. 5
Yuma . . . . .	89	- 5	0	-. 1	Houghton Lake . . .	62	- 4	.3	-. 2	Pittsburgh . . . . .	62	-10	.7	-. 1
ARK.Fort Smith . . .	75	- 8	2.5	+1.8	Lansing . . . . .	63	- 8	.2	-. 4	Scranton . . . . .	67	- 5	1.2	+. 4
Little Rock . . . .	76	- 6	0	-. 7	Marquette . . . . .	64	- 3	.2	-. 4	R.I.Providence . . .	67	- 5	3.6	+2.8
CALIF.Bakersfield . .	75	- 8	0	0	Muskegon . . . . .	64	- 6	T	-. 5	S.C.Charleston . . .	76	- 4	1.3	-. 3
Eureka . . . . .	58	+ 1	.1	0	S. Ste. Marie . . .	61	- 4	.4	-. 2	Columbia . . . . .	74	- 7	.2	-1.1
Fresno . . . . .	70	-10	0	0	MINN.Duluth . . . .	62	- 4	1.0	+. 2	Greenville . . . . .	73	- 5	.5	-. 4
Los Angeles . . . .	70	- 4	0	0	Internat Falls . . .	63	- 3	.8	0	S.D.Aberdeen . . . .	73	0	.2	-1.3
Red Bluff . . . . .	74	- 7	T	0	Minneapolis . . . .	70	- 2	.3	-. 4	Huron . . . . .	71	- 4	T	-. 4
San Diego . . . . .	72	+ 1	0	0	Rochester . . . . .	67	- 4	.4	-. 4	Rapid City . . . . .	72	- 2	.4	0
San Francisco . . . .	64	+ 1	T	0	St. Cloud . . . . .	66	- 5	.1	-. 7	Sioux Falls . . . . .	72	- 2	T	-. 6
Stockton . . . . .	72	- 4	0	0	MISS.Jackson . . .	80	- 2	.1	-. 8	TENN.Chattanooga . .	75	- 4	.3	-. 5
COLO.Denver . . . .	69	- 5	.5	+. 2	Meridian . . . . .	76	- 6	.3	-. 7	Knoxville . . . . .	73	- 5	1.3	+. 4
Grand Junction . . .	75	- 3	.1	-. 1	MO.Columbia . . . .	72	- 6	T	-. 7	Memphis . . . . .	77	- 5	T	-. 7
Pueblo . . . . .	73	- 3	.4	-. 1	Kansas City . . . .	74	- 5	0	-. 8	Nashville . . . . .	74	- 6	.6	-. 2
CONN.Bridgeport . . .	72	- 2	1.4	+. 5	St. Louis . . . . .	71	- 8	.3	-. 4	TEX.Abilene . . . . .	84	- 1	T	-. 5
Hartford . . . . .	68	- 4	1.4	+. 6	Springfield . . . .	71	- 8	1.1	+. 5	Amarillo . . . . .	75	- 4	1.2	+. 5
D.C.Washington . . .	76	- 2	1.2	+. 1	MONT.Billings . . .	71	- 2	.2	0	Austin . . . . .	85	- 1	0	-. 4
FLA.Apalachicola . .	80	- 2	1.1	-. 6	Glasgow . . . . .	71	- 1	.9	+. 6	Beaumont . . . . .	81	- 3	.8	-. 5
Daytona Beach . . . .	80	- 1	.5	-1.0	Great Falls . . . .	69	- 1	.6	+. 4	Brownsville . . . . .	83	- 2	T	-. 4
Ft. Myers . . . . .	82	- 1	2.2	+. 5	Havre . . . . .	72	+ 1	.4	+. 2	Corpus Christi . . . .	84	- 2	0	-. 5
Jacksonville . . . .	80	- 1	1.7	0	Helena . . . . .	65	- 4	.4	+. 2	Dallas . . . . .	82	- 5	0	-. 2
Key West . . . . .	85	0	2.1	+1.3	Kalispell . . . . .	66	+ 1	2.2	+1.8	Del Rio . . . . .	82	- 2	T	-. 3
Lakeland . . . . .	82	0	1.8	+. 1	Miles City . . . . .	74	- 2	.4	+. 1	El Paso . . . . .	80	- 2	T	-. 3
Miami . . . . .	83	0	.3	-1.1	Missoula . . . . .	66	- 1	.1	-. 1	Fort Worth . . . . .	85	- 1	.5	+. 1
Orlando . . . . .	82	0	.8	-. 8	NEBR.Grand Island .	73	- 4	.5	-. 1	Galveston . . . . .	82	- 2	T	-. 9
Tallahassee . . . . .	82	9	2.8	+1.1	Lincoln . . . . .	73	- 5	0	-. 7	Houston . . . . .	82	- 2	T	-. 9
Tampa . . . . .	81	- 1	.8	-1.1	Norfolk . . . . .	72	- 4	T	-. 6	Lubbock . . . . .	79	- 1	.4	0
W.Palm Beach . . . .	80	- 2	.7	-. 7	N.Platte . . . . .	68	- 7	1.8	+1.3	Midland . . . . .	81	- 2	0	-. 4
GA.Atlanta . . . . .	74	- 4	.1	-. 8	Omaha . . . . .	73	- 3	T	-. 9	San Angelo . . . . .	82	- 4	.7	+. 5
Augusta . . . . .	78	- 2	T	-1.1	Valentine . . . . .	72	- 3	.6	0	San Antonio . . . . .	83	- 3	0	-. 4
Macon . . . . .	79	- 3	1.2	+. 3	NEV.Ely . . . . .	58	-10	.2	+. 1	Victoria . . . . .	84	- 1	T	-. 6
Savannah . . . . .	78	- 3	5.3	+3.7	Las Vegas . . . . .	85	- 4	0	-. 1	Waco . . . . .	86	- 1	0	-. 3
HAWAII.Hilo . . . . .	76	0	.7	-2.1	Reno . . . . .	60	- 9	T	-. 1	Wichita Falls . . . .	85	- 2	T	-. 4
Honolulu . . . . .	81	+ 1	0	-. 2	Winnemucca . . . .	65	- 5	.1	+. 1	UTAH.Blanding . . . .	68	- 5	.3	-. 1
Kahului . . . . .	80	+ 2	T	-. 1	N.H.Concord . . . .	62	- 7	.3	-. 3	Salt Lake City . . . .	73	- 4	T	-. 2
Lihue . . . . .	80	0	-. 1	-. 1	N.J.Atlantic City . .	72	- 3	.3	-. 3	VT.Burlington . . . .	63	- 6	.4	-. 4
IDAHO.Boise . . . . .	66	- 9	.1	0	Trenton . . . . .	73	- 2	.1	-. 9	VA.Lynchburg . . . .	71	- 5	.3	-. 6
Lewiston . . . . .	70	- 4	.8	+. 7	N.MEX.Albuquerque .	75	- 3	.1	-. 3	Norfolk . . . . .	74	- 4	.5	-. 9
Pocatello . . . . .	66	- 6	.2	+. 1	Roswell . . . . .	80	+ 1	.4	0	Richmond . . . . .	75	- 3	.2	-1.1
ILL.Cairo . . . . .	74	- 7	0	-. 7	N.Y.Albany . . . . .	64	- 7	.8	+. 2	Roanoke . . . . .	71	- 4	1.1	+. 2
Chicago . . . . .	67	- 8	.2	-. 6	Binghamton . . . .	62	- 7	2.4	+1.6	WASH.Colville . . . .	67	- 1	1.6	+1.4
Moline . . . . .	67	- 8	.2	-. 6	Buffalo . . . . .	64	- 6	.3	-. 5	Omak . . . . .	69	- 1	.9	+. 8
Peoria . . . . .	65	-10	1.2	+. 5	New York . . . . .	75	- 1	2.2	+1.2	Quillayute . . . . .	59	0	T	-. 5
Rockford . . . . .	65	- 8	.8	0	Rochester . . . . .	66	- 5	.8	+. 1	Seattle-Tacoma . . . .	64	- 1	1.0	+. 8
Springfield . . . . .	66	-10	1.4	+. 7	Syracuse . . . . .	63	- 8	3.1	+2.3	Spokane . . . . .	67	- 3	.1	0
IND.Evansville . . . .	71	- 7	T	-. 7	N.C.Asheville . . . .	68	- 6	1.6	+. 5	Walla Walla . . . . .	69	- 7	.6	+. 5
Ft. Wayne . . . . .	66	- 7	1.0	+. 3	Charlotte . . . . .	74	- 5	.9	-. 8	Yakima . . . . .	69	- 1	.1	+. 1
Indianapolis . . . . .	69	- 6	4.7	+4.1	Greensboro . . . . .	72	- 5	.9	-. 1	W.Va.Beckley . . . .	64	- 6	.5	-. 4
South Bend . . . . .	65	- 7	1.1	+. 3	Hatteras . . . . .	79	+ 1	6.4	+4.9	Charleston . . . . .	68	- 7	.3	-. 7
IOWA.Burlington . . .	67	- 9	.3	-. 4	Raleigh . . . . .	73	- 5	.4	-. 8	Huntington . . . . .	70	- 5	.9	+. 1
Des Moines . . . . .	69	- 6	T	-. 7	Wilmington . . . . .	76	- 4	2.0	+. 3	Parkersburg . . . . .	68	- 7	.8	0
Dubuque . . . . .	66	- 6	.2	-. 6	N.DAK.Bismarck . . .	71	- 1	.5	+. 1	WIS.Green Bay . . . .	63	- 7	.2	-. 4
Sioux City . . . . .	71	- 5	T	-. 6	Fargo . . . . .	71	0	.1	-. 6	La Crosse . . . . .	68	- 5	.2	-. 5
KANS.Concordia . . . .	75	- 4	T	-. 7	Williston . . . . .	70	- 1	.4	0	Madison . . . . .	65	- 6	.1	-. 6
Dodge City . . . . .	79	- 1	1.0	+. 4	OHIO.Akron-Canton .	66	- 6	1.0	+. 3	Milwaukee . . . . .	66	- 5	.1	-. 5
Goodland . . . . .	72	- 4	T	-. 6	Cincinnati . . . . .	68	- 8	.7	0	WYO.Casper . . . . .	69	- 3	.2	+. 1
Topeka . . . . .	73	- 6	.5	-. 4	Cleveland . . . . .	66	- 5	1.1	+. 4	Cheyenne . . . . .	64	- 6	.6	+. 2
Wichita . . . . .	77	- 4	.1	-. 6	Columbus . . . . .	65	- 8	2.7	+2.0	Lander . . . . .	66	- 6	.1	0
KY.Lexington . . . . .	68	- 8	.4	-. 5	Dayton . . . . .	65	- 9	.9	+. 3	Sheridan . . . . .	68	- 4	.2	0
Louisville . . . . .	72	- 5	1.7	+1.0	Toledo . . . . .	62	-10	.1	-. 8	P.R.San Juan . . . . .	84	+ 3	.5	-1.0

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## State Summaries of Weather and Agriculture

These summaries provide brief descriptions of crop and weather conditions important on a national scale. More detailed data are available in Weather and Crop Bulletins published each Monday by SRS State offices in cooperation with the National Weather Service, NOAA.

**ALABAMA:** Dry and unseasonably cool. Rains 5th and 6th. Temperatures 3° below normal. Extremes: 95 and 54°.

Soil moisture adequate to short. Fieldwork: 5.0 days favorable. Cotton fair to good condition, 68% setting bolls, 91% 1975. Insect damage light. Corn good condition 39% mature, 24% 1975. Some fields harvested south. Soybeans good condition but late, 56% blooming, 83% 1975, 69% average. Peanuts good condition. Pastures adequate.

**ALASKA:** Tanana Valley very warm and very dry. New record temperature for first of August set, 90°. Matanuska Valley sunny and warm. Very little new rainfall. Kenai Peninsula warm dry spell continued. About one-third normal summer precipitation. Temperatures turned cooler with some rain toward end of week. Kodiak Island warm and dry. Heavy rain on 5th and 6th bringing rainfall totals above normal for season.

Grain 80% turning color with about 20% ripe. Harvest of grain to begin late August in Tanana and Matanuska Valleys. Potato harvest for storage will begin in about 2 weeks. Ground moisture continues short in most areas of rail-belt.

**ARIZONA:** Summer showers absent, few showers weekend. Rainfall well below normal. Temperatures mostly 3 to 5° below normal.

Wet conditions decreased. Insects problem in cotton. Insecticides being applied. Cotton setting bolls. Weed problems continue. Early sorghum heading and coloring, good progress. Alfalfa baling resumed. Fall lettuce planted. Valencia oranges, grapefruit picked, harvest virtually complete. Mountain ranges good to excellent, desert ranges poor to fair. Cattle, calves higher elevations generally excellent, lower ranges generally fair.

**ARKANSAS:** Temperatures below normal, from 2 to 10°. Extremes: 99 and 47°. Rainfall sparse.

Soybeans blooming well, some had problems setting pods. Late beans having most difficult. Armyworms created problems. Condition fair to good. Cotton fruiting and squaring rapidly, 90% setting bolls. Condition fair. Early rice heading, condition good. Some grass and weeds. Early sorghum heading, late sorghum booting. Armyworms hit sorghum. Corn maturing rapidly, needs rain. Peach harvest complete. Grapes excellent. Decreased hay yields, pastures short to adequate. Much pinkeye reported. Some hay fed.

**CALIFORNIA:** Temperatures except along the central and south coast 4 to 8° below normal. Precipitation confined to northern third with largest amounts near Oregon border and northern mountains. Only spotty light amounts in northern Sierra; elsewhere dry. Central valley maximum in 80's and only lower desert barely above 100°.

Cotton slowed by cool weather. Grain harvest winding up. Safflower, rice, corn, dry beans, and mlo maturing in good shape. Sugarbeet digging continues. Table grapes, lemons and orange harvest continues. Peach harvest nearly

back to normal after strike. Vegetable crops progress good. Processing tomato harvest moving north. Depending on area, harvests are past peak, peaking, or approaching harvest. Northern areas maturing, southern areas planting for fall harvest. Rangeland dry. Range stress overgrazing. Supplemental feeding continues.

**COLORADO:** Cool temperatures. Extremes: 103 and 29°. Near freezing at higher elevations. Rain general with 1.00 to 5.00 in. received east slope and extreme southeast plains.

Winter wheat harvest nearly complete, 92% 1976, 97% last year. Corn height 73 in., last year 70 in., tasseled 90%, last year 78%, average 81%. Spring planted crops good to very good condition. Sorghum improved to good condition. Dry bean condition good; flowering 59%, last year 60%. Range and pasture conditions fair, livestock good.

**FLORIDA:** Fair to partly cloudy with temperatures near or slightly below normal. Rainfall near normal from scattered afternoon thunder-showers.

Soil moisture adequate. Corn harvest active, yields good to excellent. Tobacco harvest nearing completion. Marketing active. Peanut harvest continues on small early acreage. Soybeans good condition. Hay cutting active. Sugarcane good growth. Forage conditions good to excellent, soil moisture mostly adequate. Cattle, calves good condition. Citrus excellent condition. New crop making good progress. Only small quantity old crop valencias being harvested. Land preparation continuing. Early eggplant transplantings, some peppers seeded southwest, tomato transplantings underway.

**GEORGIA:** Hot first, moderation midweek on. Temperatures 2 to 4° below normal north and 1 to 2° below south. Scattered showers, heaviest amounts southeast on 3rd and 4th. Rains 7th and 8th over north and central averaged 1.00 in. to 2.00 in.

Soil moisture very short to adequate. Weekend showers brought needed moisture to some areas. Fieldwork: 6.0 days suitable. Cotton fair to good, 98% setting bolls, last year 96%. Peanuts slightly weaker, fair to mostly good, 99% blooming and 99% pegging, last year 100% and 99% respectively. Spraying still very active. Soybean condition slightly lower, fair to mostly good. Corn condition fair to mostly good, early harvest active south. Tobacco 94% harvested, last year 88%, average 86%, marketing active. Watermelon condition lower, now rated fair, 87% harvested, last year 91%. Peach harvest complete, last year 99%, average 95%. Apple condition good, 9% harvested. Haying active, condition again weaker, fair to good. Cattle and hog condition good. Pasture condition fair to mostly good.

**HAWAII:** Weather warmer and getting humid. Showers mainly higher elevation and decreasing. Winds some sections gusty. No serious damage.

Irrigation and spraying at frequent level. Vegetable supplies adequate. Banana steady harvesting. Papayas declining seasonally.

Pineapple active but gradually declining. Sugar harvesting steady. Pastures poor leeward areas, fair to good windward area.

IDAHO: Temperature 3° above normal in north, 5° to 7° below in south. Extremes: 99 and 36°. Slow crop development. Hail, high winds and rain did severe damage to crops. Damage estimate not yet available. Most harvesting of small grains, bluegrass, dry peas and cutting of alfalfa halted. Harvesting of most small grains, bluegrass and dry peas just beginning. Pasture and range conditions improved as a result of rain. Livestock in excellent condition. Minor problem with pinkeye in cattle.

ILLINOIS: Temperatures 6 to 10% below normal. Precipitation: 0.10 in. north and south, 1.50 in. central.

Corn good; 96% silked, 100% 1975, 92% average; 50% in dough, 74% 1975, 47% average. Soybeans good; 90% bloomed, 98% 1975, 80% average; 65% setting pods, 84% 1975, 51% average. Oats 100% combined, 100% 1975, 95% average. Second crop alfalfa hay mostly fair to good; 93% cut, 89% 1975, 85% average. Winter wheat acreages 38% plowed, 36% 1975, 34% average. Pastures mostly fair. Soil moisture short to adequate. Fieldwork: 5.5 days suitable.

INDIANA: Temperatures below normal. Rainfall 0.50 to 1.00 in. but ranged from none extreme southwest to over 4.00 in. at Indianapolis. Low temperatures averaged in 50's, highs in 70's.

Fieldwork: 6.0 suitable. Topsoil and subsoil moisture short to mostly adequate. Oats 95% combined. Corn 90% silked, 35% in dough, 5% dented. Soybeans 60% setting pods. Wheat land 20% plowed, 1975 20%, average 25%. Pastures fair.

IOWA: Little rain but cool temperatures beneficial. Widely scattered rain northern third, more needed. Some isolated hail damage north central.

Fieldwork: 6.5 days suitable. Crop conditions highly variable. Rain spotty. Crop conditions variable depend upon amount of rain received. Corn condition good. Corn condition best southern third. Corn all silked, normal for this date, 94% last year. Pollination good, depending on moisture supplies. Corn in or past milk stage 67%, 60% last year. Corn in or past dough stage 30%, 28% last year, 38% average. Soybean condition variable, nearly same as last year. Soybean condition good. All soybean fields blooming, 89% last year. Soybeans setting pods 77%, 72% 1975, 65% average. Third cutting alfalfa 19% harvested, well ahead of normal. Second crop clover hay 70% harvested, 64% last year, 57% average. Topsoil and subsoil moisture short. Livestock benefited from cool weather. Pasture show little recovery, causing hay feeding especially northern third, west central.

KANSAS: Temperatures in the mid-70's, 1 to 3° below normal. Rainfall 0.20 in. northwest, north central, central to around 1.00 in. southwest and southeast.

Dry weather continued to put stress on nonirrigated row crops. Corn in dough 35%, 50% last year and average; 10% in dent, 15% last year and average. Sorghum headed 30%, same as last year, 35% average. Only a few fields colored, 5% last year and average. Soy-

beans setting pods 35%, same as last year, 50% average. Alfalfa third cutting 60% complete, 35% last year, 45% average.

KENTUCKY: Temperatures about 5° below normal. Scattered showers and thundershowers 6th and 7th. Precipitation slightly over 0.50 in.

Fieldwork: Over 5.0 days favorable. Soil moisture mostly adequate to short, but no crops suffering seriously. Corn advanced rapidly, 39% milk stage or earlier, 61% in dough or dent stage. Soybeans 42% podded or podding. Burley tobacco 40% topped. Dark types about half topped. Third cutting alfalfa about 40% harvested. Tobacco crop improved somewhat, but remained in less than average condition.

LOUISIANA: Temperatures below normal. Extremes: 97 and 56°.

Soil moisture short north, adequate elsewhere. Fieldwork: 5.0 days suitable. Cotton good. Insects increasing. Setting bolls 94%, 78% year ago. Rice good, 51% ripe, 17% harvested, 10% year ago. Soybeans 81% blooming. Rain needed. Corn good, high yields: 94% dough stage, 70% mature. Sorghum good, 85% headed. Sugarcane good; borer infestation increasing. Good harvest gaining momentum. Livestock, cattle good.

MARYLAND & DELAWARE: Temperatures 2 to 5° below normal. Extremes: Upper 49's, lower 90's. Western Maryland averaged low 40's to upper 70's. Precipitation ranged from a trace to 1.08 in., heaviest on Eastern Shore. Weekend cooler, rain on 8th.

Soil moisture short. Pastures supplying below average amounts feed. Corn crop 90% silked, 85% 1975, 88% average; 35% in dough stage, 40% 1975. Soybeans 55% bloomed, 20% podded, equal to 1975. Tobacco 6% harvested. Hay making in full swing. Third cutting alfalfa 65%, second cutting other hay 80%. Vegetable harvest active. Apple and peach harvest continues.

MICHIGAN: Temperatures 3 to 7° below normal. Precipitation generally light ranging from 0.09 to 0.48 in. Soil moisture mostly short to adequate. Corn 75% silked, 65% 1975, 60% average; over 10% dough stage, 15% normal. Wheat harvest virtually complete. Oats 55% combined, 35% normal, 40% 1975. Plowing for fall seedings in south. Dry beans 50% blooming, 40% 1975, and 35% setting pods. Soybeans 50% blooming, 30% setting pods. Summer potato digging 10% complete, 15% 1975, 5% normal. Second hay nearly two-thirds cut, 60% 1975, 45% normal. Pasture feed supplies short to adequate. Farmers feeding hay north. Summer apples 20%, equal to normal progress, 12% 1975. Peach harvest 10%. Cucumber harvest 20%, sweet corn picking 25%. Fieldwork: 6.0 days suitable.

MINNESOTA: Temperatures 2° below normal west to 4° below normal east. Extremes: 102 and 40°. Precipitation near 0.50 in. north third; 0.30 in., central and east central; 1.30 in. south central and 0.60 in. extreme southeast. Dry west central and southwest averaged only 0.15 in.

Rains in south central, southeast improved row crop prospects. Crop damage too severe in west central, southwest to benefit from any additional moisture. Small grain harvest complete in south, good progress Red River Valley except extreme north where beginning. Corn 54% in milk, 1975 48%, normal 34%; 10% in dough,



1975 11%, normal 5%. Soybeans 66% setting pods, 1975 71%, normal 65%. Combined: Spring wheat 54%, 1975 19%, normal 17%; oats 76%, 1975 49%, normal 41%; barley 69%, 1975 43%, normal 38%; winter wheat 95%, 1975 75%, normal 65%.

MISSISSIPPI: Temperatures near normal Gulf Coast to 6° subnormal north. Extremes: 51 and 99°.

Soil moisture short to adequate. Fieldwork: 5.7 days suitable. Cotton 97% blooming; 78% setting bolls, 74% 1975, 89% average. Soybeans 82% blooming, 51% 1975, 54% average; 34% podding, 28% 1975. Rice 41% headed, 9% 1975. Corn 90% to dough stage, 57% 1975; 59% dented, 46% 1975. Sorghums 68% headed, 54% 1975. Watermelons 85% harvested, 69% 1975, 66% average. Peaches 95% harvested, 87% average. Cotton mostly fair condition. Other crops mostly good condition.

MISSOURI: Temperatures 5 to 8° below normal. Precipitation average, 1.30 in. west Ozarks, light elsewhere.

Fieldwork: 5.9 days suitable. Soybeans 67% blooming, normal 65%, 28% setting pods. Corn 91% silked, normal 86%, 41% in the dough stage. Grain sorghum 57% headed, normal 61%. Cotton 87% squared, 45% setting bolls. Third cutting alfalfa 31% complete. Condition of soybeans mostly fair. Condition of corn poor to fair. Condition of cotton fair. Condition of pastures poor.

MONTANA: Mild temperatures 5° below normal southwest to near normal elsewhere. Precipitation near normal to well above from afternoon and evening showers and thunderstorms. Gusty winds, hail and locally heavy rain accompanied some thunderstorms.

Grain harvest progress good, 30% winter wheat combined. Last year less than 5% and normal 20%. Spring wheat and barley harvest over 10% done, oats 20%, all ahead of last year and normal. Winter wheat 20% not ripe. Spring wheat 65% unripe, barley and oats 60% unripe. Only about 15% all spring grains still green. Soil moisture mostly adequate. Second cutting alfalfa 15% done, wild hay harvest 60% complete. Grasshopper damage light to moderate. Range feed supplies mostly adequate.

NEBRASKA: Temperatures below normal. Scattered showers and thunderstorms heaviest extreme west and least northeast and east central.

Topsoil moisture short. Subsoil moisture short. Irrigated corn good condition; 95% silked, 95% 1975. Dryland corn generally fair condition but some poor northeast; 85% silked, 85% 1975. Sorghum and soybean fair to good condition. Sorghum 70% heading; 75% normal and 1975. Soybeans 80% podded, 65% normal and 1975. Alfalfa and wild hay fair condition. Second cutting alfalfa 95% completed. Pasture and range feed supplies short.

NEVADA: Temperatures 3 to 10° below normal. Extremes: 33 and 102°. Showers confined to north and central in amounts varying from trace to 0.37 in.

Wild hay harvest continues. Headed small grains responding favorably to cool weather north. Row crops developing slower than usual. Cotton in blossom stage.

NEW ENGLAND: Autumn-like weather prevailed 2d through 4th. Temperatures ranged 8 to 15° below normal on 2d. Temperatures normal to above on

5th with 80's south. Rain on 6th amounted to 0.50 to 1.25 in. north, 0.75 to 2.00 in. south.

Rains alleviated drought conditions southeast. Crops and pastures look good. Cool weather slowed growth some vegetable crops. First cutting hay complete south, 85% north, second cutting 40% south, 25% north. Potato farmers in Aroostook County, Maine spraying for insect and disease control. Damage from weather, diseases and insects minimal so far.

NEW JERSEY: Temperatures 3° below normal. Extremes: 44 and 94°. Rainfall 1.02 in. north, 1.00 in. central and 0.33 in. south. Soil moisture, in percent of field capacity, 71% north, 59% central and 44% south. Soil temperature averaged 70° north and 75° south.

Showers beneficial. Eggplant, pepper and white potato harvest increasing. Tomato supplies good. Processing tomato volume increasing. Sweet corn and cucumber movement declining. Fall lettuce up. Summer apple supplies moderate. Peach harvest increasing. Field corn and soybean prospects improved by showers. Second cutting hay complete. Pasture greening in response to showers.

NEW MEXICO: Good rains early then drying. Very light showers through weekend. Low temperatures at night mountain sections with drying trend. Some readings in 30's. Temperatures generally 2 to 3° cooler than normal.

Topsoil and subsoil moisture short to adequate. Cotton fair to good, 65% setting bolls. Alfalfa mostly good, second cut completed, third cut 55% complete. Irrigated grain sorghum good, 60% heading. Fall seeding wheat to begin 15th. Corn good, 100% tasseling, dough stage well advanced. Apples good. Chili, onions and other vegetables good. Ranges and cattle good. Sheep fair to good.

NEW YORK: Temperatures below normal. Departures up to 8° central. Adirondack temperatures dropped to upper 20's. Above normal temperatures returned end of week. Rainfall heavy, most areas above normal.

More favorable fieldwork weather. Second cutting alfalfa 45% complete, third cutting beginning. Regrowth good. Oat harvest 20% complete, heavy rains causing lodging. Wheat harvest 70%. Potatoes growing well, harvest early varieties picking up. Onions need dry weather before harvest begins. Sweet corn yields below normal. Snap bean yields variable. Last cabbage transplants planted. Tomatoes ripening slowly, cool nights a problem. Apples sizing well as rains continue. More early varieties being harvested. Grapes sizing. All fruits need more sunshine. Continual rainfall makes spraying difficult.

NORTH CAROLINA: Temperatures near normal. Ample rainfall coastal areas and mountains; below to much below normal elsewhere.

Fieldwork: 5.6 days suitable. Soil moisture very short to adequate. Shortage of rainfall hurting late crops. Flue-cured tobacco fair to good; 53% harvested, 1975 38%, average 42%. Corn and soybeans fair to good. Peanuts good. Cotton fair to good. Hay and pasture mostly fair to good. Hay 70% harvested, 1975 69%. Sweetpotatoes fair to good; few harvested. Apples fair to good; 14% harvested, 1975 8%, average 12%.

NORTH DAKOTA: Temperatures below normal ranging from 5° southeast to 1° southwest, central and east central. Extremes: 94 to 39°. Precipita-

tion below normal except normal south central. Weekend hot, with isolated thundershowers.

Harvesting progressing rapidly. About 30% hard spring wheat combining completed, 15% durum, 50% barley and oats. Normal 9%, 3%, 24% and 20%, respectively. Moisture supplies short except extreme northeast.

OHIO: Temperatures below normal with record lows occurring 2d, 4th in central and north. Extremes: 86 and 44°. No precipitation of significance until 5th to 6th ranging from 2.66 in. central to 0.12 in. Toledo.

Harvest completion: Oats virtually complete, 85% normal and equal with 1975; potatoes 10%, 15% in 1975 and normal; timothy seed 25% complete; alfalfa hay 2d cutting 95%, 95% 1975 and 80% normal; 2d cutting clover-timothy 75%, 75% 1975 and 60% normal. Corn 30% in dough stage, 55% 1975 and 30% normal. Soybeans 90% pods setting, 90% 1975 and 60% normal. Soybean pods 20% set, 30% 1975 and 20% normal. Tobacco 10% topped, 5% 1975 and 10% normal. Corn and soybean condition good to excellent. Soil moisture adequate. Fieldwork: Over 5.0 days suitable.

OKLAHOMA: Temperatures 1 to 7° below normal. Precipitation ranged from 0.25 in. Panhandle to 1.39 in. east central. Weekend hot and dry.

Topsoil moisture low. Wheat seedbed preparation modest progress but practically all ground has had some tillage. Corn being ensiled in east. Corn 53% dough stage or past, well ahead of year ago, behind 64% average. Sorghums late with 58% headed or past, compared near 72% year ago and average. Condition mostly good. Cotton ahead of year ago's water-logged crop with 50% setting bolls, 28% year ago, 42% average. Insects building up. Peanuts near year ago and average with 42% spiking, 88% blooming. Dryland acres will need rain soon. Soybeans late, 50% now blooming and below 10% setting pods. Third cutting alfalfa past 75%, 4th cutting started few areas. First seed cut in southwest. Ranges only fair to good and cattle losing some condition.

OREGON: Temperatures within 3° of normal. Extremes: low 90's, mid 40's west; low 90's low 40's east. Heavy showers and thunderstorms dumped 1.00 to 2.00 in. in east and southwest at the first and last of week. Rainfall amounts elsewhere ranged from a trace to 0.25 in.

Cool, rainy weather delayed grain harvest. Second and third cutting alfalfa made; some rain damage. Mint harvest started. Apple harvest started. Bartlett pear harvest to begin soon. Peaches being harvested. Caneberries and blueberries in latter state of harvest. Filberts sizing well. Bean and broccoli harvest begun. Potatoes in good condition. Livestock in good condition. Range and pastures aided by rain.

PENNSYLVANIA: Soil moisture adequate. Activities: Hay making, grain harvesting, potato harvesting, topping tobacco. Picking sweet corn, early apples and peaches active. Harvest tomatoes and snap beans underway. Oats 64% harvested, 69% last year. Potatoes 11% dug, 6% last year. Corn silage 6% harvested, 5% 1975. Corn for grain good condition, 36% presilk, 57% silk, 6% in dough stage, 1% dented. Fall plowing 9% complete, mostly south. Alfalfa hay second cut 72% - equal to 1975, third cut 23%, 14% last year. Clo-tim second cut 41%, 37% last year. Quality of hay most-

ly good to fair. Feed from pastures average to above.

PUERTO RICO: Island rainfall 1.33 in. or 0.29 in. below normal. Temperatures about 81° on coasts and 76° interior. Extremes: 94 and 58°.

Lack of rainfall hindered development sugar cane ratoons. Preparations for next coffee harvest underway. Coffee beans developing well but dry weather might affect normal development. Tobacco harvest completed. No plantings made yet. Pastures very bad condition due drought effects. Some cattle losses south coastal areas due lack of pastures. Northern portion pastures in good condition. Lack of rainfall affecting complete development of food crops. Soil preparation for autumn replantings continued.

SOUTH CAROLINA: Temperatures below normal. Extremes: 95 and 56°. Rainfall below normal except in mountains, west central portion, near south coast. Rainfall in highly localized showers with many areas receiving no precipitation.

Soil moisture varied from very short to adequate. Rain needed most areas. Insect activity high many areas, producers concerned. Tobacco, corn, peach, watermelon, grape, peanut harvest continues.

Crop conditions: Fair--watermelons; fair to good--cotton, peanuts, soybeans, lespedeza, pastures, grapes; good--corn, tobacco, peaches. Tobacco harvested 79% 1976, 72% 1975, 77% average. Peaches harvested 95% 1976, 88% 1975, 85% average. Watermelons harvested 86% 1976, 92% 1975, 89% average. Cotton setting bolls 81% 1976, 91% 1975, 87% average. Corn mature 47% 1976, 51% 1975, 55% average.

SOUTH DAKOTA: Showers southwest and northeast up to 2.00 in. Dry elsewhere. Temperatures variable, averaged near normal. Extremes: 41 and 101°.

Topsoil moisture short except adequate in small southwest area. Small grain harvest nearly complete except in north. Percent harvested: oats 98%, 1975 86%, normal 80%; barley 98%, 1975 89%, normal 86%; spring wheat 92%, 1975 71%, normal 69%. Row crop prospects diminishing; much corn burning badly. Many fields won't be harvested for grain and some won't make silage. Soybeans percent podded 68%, 1975 72%, normal 62%. Sorghum percent headed 49%, 1975 38%, normal 48%. Growth slow. Pastures failing to provide feed. Cattle sales and movements continue.

TENNESSEE: Scattered thundershowers 6th, rainfall totals below normal. Cooling first and again weekend. Temperatures 3 to 6° below normal.

Some areas received rains but more moisture needed for crops to develop properly. Armyworms reported. Haying, cultivating, spraying, and weeding main activities. Fall plowing underway. Snap bean harvest progressing. Tomato blight a problem. Fieldwork: 5.0 days suitable. Soil moisture short to adequate. Corn in excellent condition. Corn 94% silked, 89% last year, 94% average. Corn 44% dough, 63% last year, 66% average. Corn 21% dented, 24% last year, 32% average. Cotton about 1 week behind normal, with boll worms biggest problem. Hot weather needed. Cotton 97% squared, 100% last year and average. Cotton 66% setting bolls, 85% last year, 83% average. Soybeans good condition, 70% blooming, 68% last year, 72% average. Soybeans 35% setting pods, 31% last year, 27% average. Tobacco 60% topped, harvest underway. Poor weather conditions and diseases reducing yields. Pasture fair, mostly short. Heavy livestock marketings.

TEXAS: Above normal temperatures Panhandle, central, southeast. Southwest near normal, elsewhere below normal. Rainfall sparse all areas except Panhandle, north central. Temperatures averaged low to mid-80's except far northeast where upper 70's prevailed. Thundershowers brought an average 1.50 in. Panhandle, north central. East, coastal region averaged 0.25 to 0.50; other locales very sparse.

Hot weather provided ideal conditions cotton, sorghum, hay harvest. Corn all areas making good progress. Cotton harvest made good progress south; fields began bloom High Plains. Prospects most areas good, although boll weevils remain problem particularly southern Low Plains. Defoliation begun south. Sorghum harvest excellent progress south, central, east; begun north. Midges concern Edwards Plateau; greenbugs, High Plains. Fields Low Plains blooming, setting grain, generally look good. Corn fields good condition. Denting begun northern High Plains. Harvesting south, central, east continues, 14% complete. This compares to average 11%. Rice harvesting, aided by clear, dry weather, continues active. Yields, quality reported good. Peanuts look good. Harvest making good progress. Leaf spot damage reported. Watermelon, tomatoes, peach harvest nears completion. Planting fall vegetables begun, although some areas need moisture. Harvest squash, okra, cantaloup continues. Potato, onion harvest continues. Citrus good condition. Cattle good condition although screwworms, ticks slowly increasing central, south. Ranges generally average, but hot weather drying them rapidly. Goat, sheep shearing progresses central.

UTAH: Few widely scattered showers and thunderstorms south. Moisture generally light to moderate. Some patchy damage to crops by hail. Temperatures ranged from near normal to 8° below normal. Near freezing temperatures some higher mountain valleys.

Cherry and apricot harvest finished. Winter wheat 50% dryland and 40% irrigated harvested. Spring wheat 20% harvested, oats 15% harvested, barley 30% harvested. Prospects vary from poor to good. Some rain damage to down hay. Sugarbeets, dry beans, onions, and potatoes look good. Field corn prospects varied from poor to good.

VIRGINIA: Warm and humid temperature slightly below normal. Extremes: 95 and 43°. Rainfall light, average about 0.25 in.

Fieldwork: 5.7 days suitable. Topsoil moisture short. Crop conditions declined. All areas need rain. Corn 76% normal. Silage harvest started. Soybeans 78% of normal. Late soybeans hurt most. Peanut condition dropped to 85%. Harvest underway all types tobacco: Flue-cured 19%, fire-cured 3%, burley 4%, sun-cured 3%. All yields reduced. Hay and pasture conditions very poor. Harvest peaches and early apples. Melon and vegetable harvest active.

WASHINGTON: West: Temperatures 1 to 3° below normal. Precipitation below normal except near

normal Puget Sound region.

Haying slowed by rains. Blueberry harvest full swing. Harvest vegetable seed crops. Green pea harvest at peak. Pastures drying.

East: Temperatures 1° below normal central basin to normal northeastern section. Precipitation 0.30 in. above normal except northeastern sections were 0.70 in. above normal.

Rains interfered with harvest of most crops. Thunderstorms, cloudbursts, flooding, hail, winds present in eastern wheat areas. Slow grain movement, crowded elevators. Pastures improved, hay significantly damaged. Nectarine harvest began, cherry concluded. Peach harvest continues. Apricots plentiful for local use, too late for shipping. Apple growers concerned over possibility of small fruit.

WEST VIRGINIA: Temperatures below normal, precipitation near normal. Extremes: 88 and 35°.

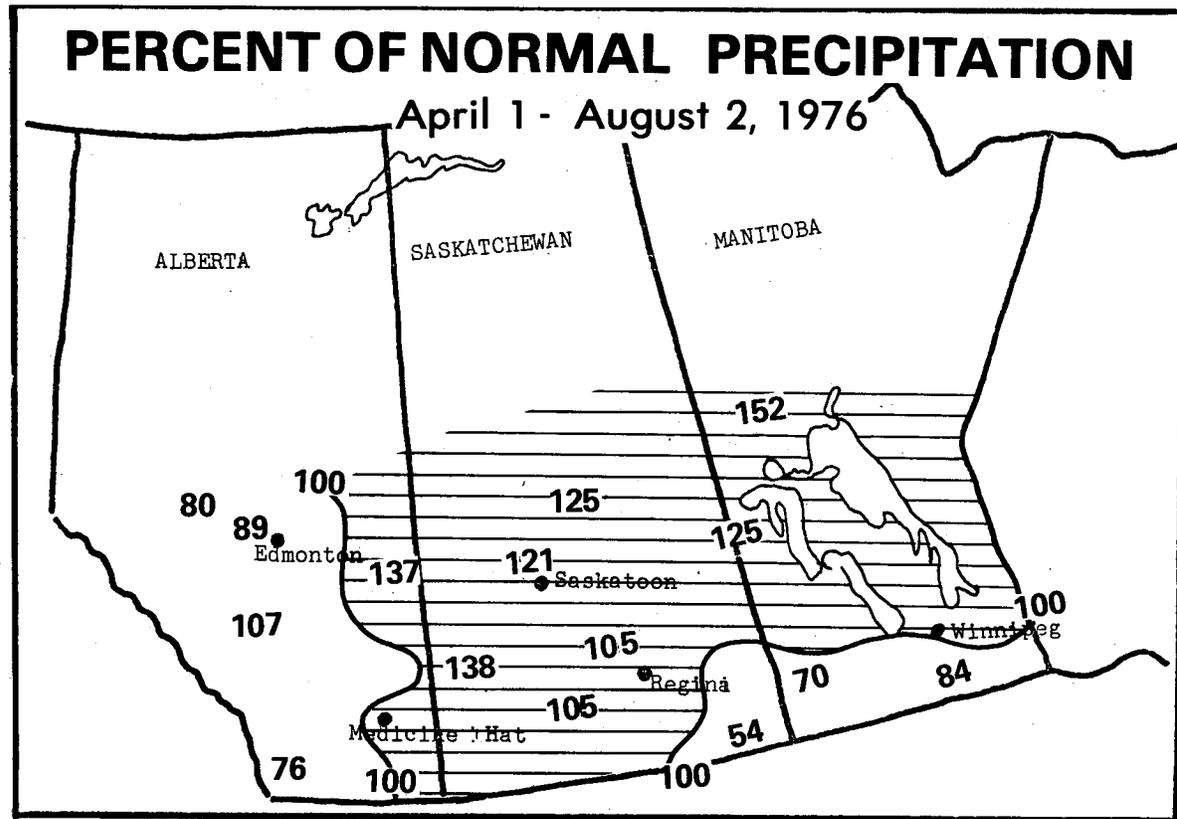
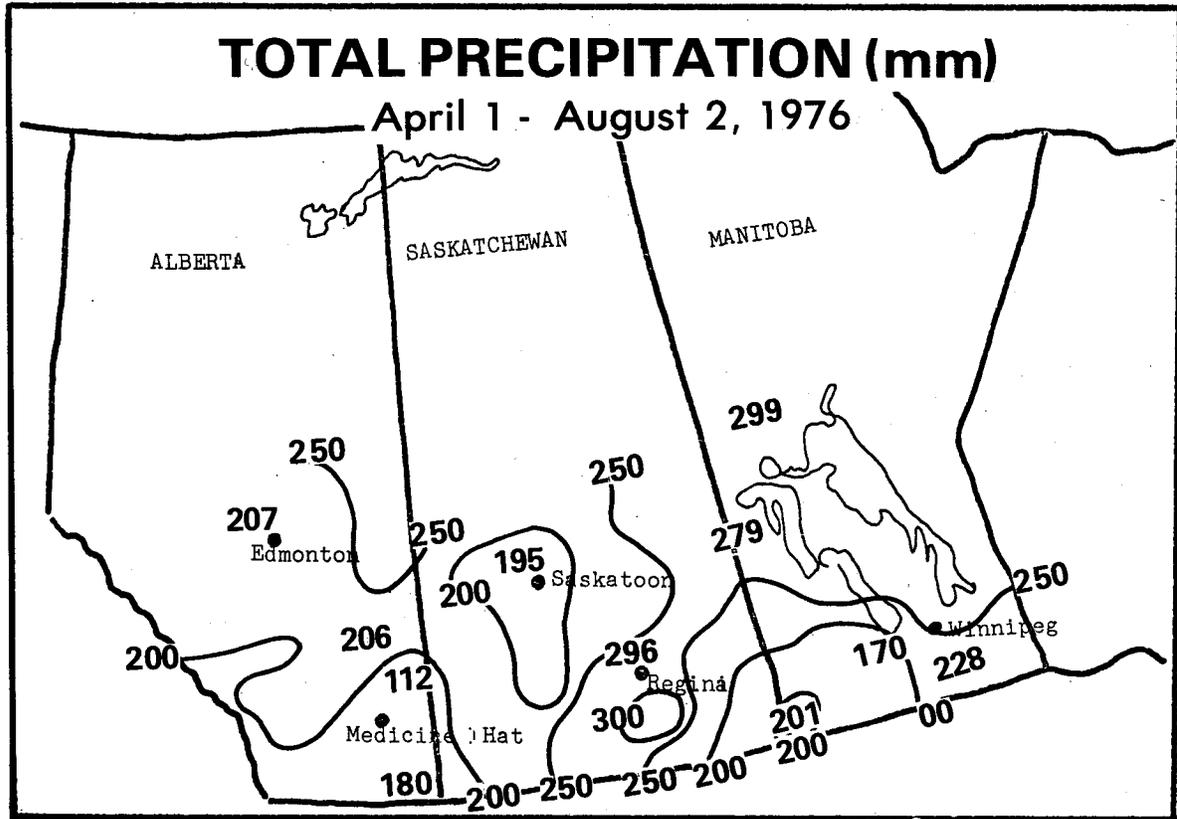
Fieldwork: 4.8 days suitable. Soil moisture adequate. Oats harvested 66%, 1975 68%, average 64%; condition fair. Second cutting hay 31% complete, 1975 37%, average 36%. Tobacco topped 31%, 1975 37%, mostly fair. Potato digging 18%, 1975 18%, average 15%; condition good. Corn fair to good. Pastures fair to good. Water shortages predominate east, southeast.

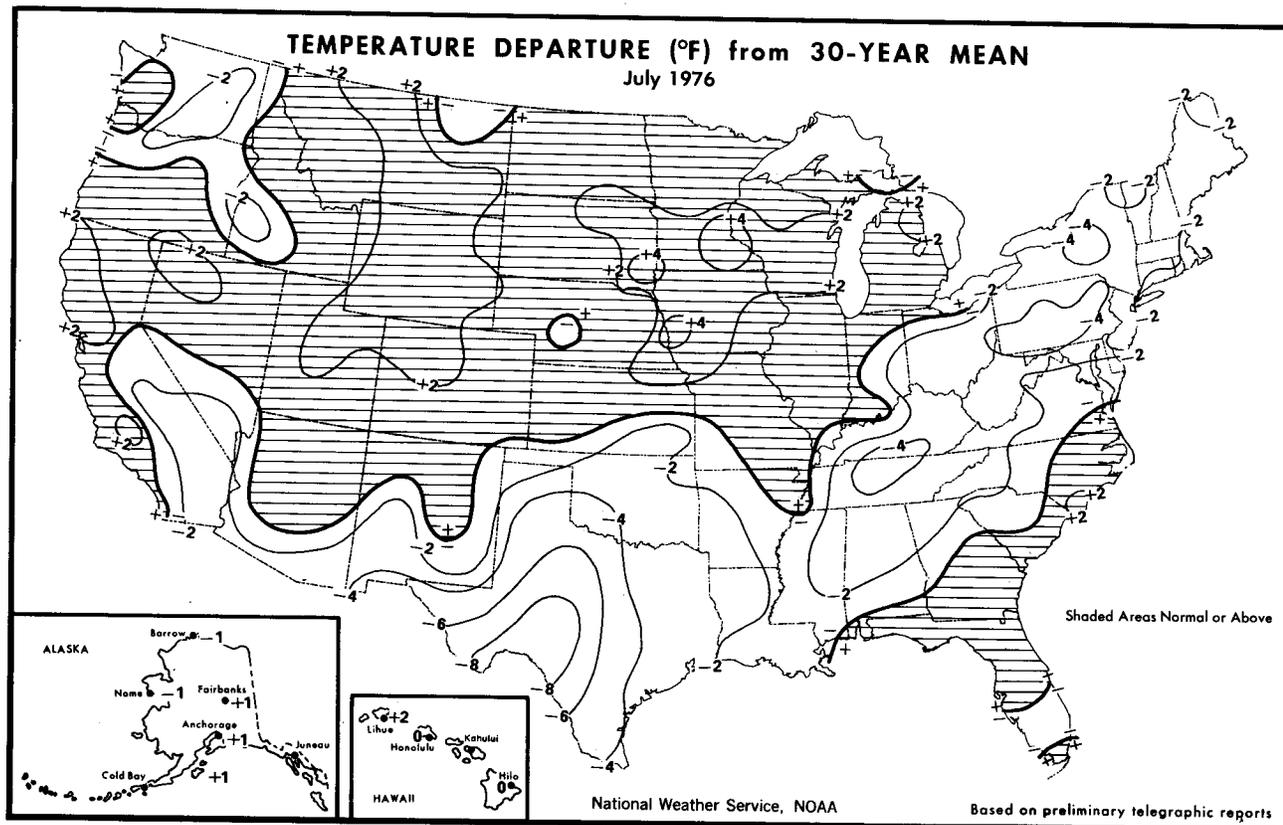
WISCONSIN: Temperatures 6° subnormal. Some record low nighttime readings 6th and 7th. Sunny and pleasant beginning and end of week. Showers and thunderstorms 4th and 5th. Heaviest rainfall north where a few north central locations reported 2.00 to 3.00 in. Rains spotty and light elsewhere.

Crops improved with recent rains and cooler temperatures. Corn made good recovery where not severely affected by earlier drought. Corn 80% silked, 1975 85%, normal 70%. Much variation in corn crop, good on heavier soils but poor on light soils. Late corn grew after mid-July rains and will provide more forage. Oats 55% harvested, 1975 30%, normal 35%. Yields of barley and spring wheat below normal but winter wheat yields were good. Second crop hay 60% harvested, 1975 55%, normal 35%. Yields low on most second crop due to dry weather. Third crop prospects brighter with recent rains. New seedings also improved. Pastures greened a little but no significant recovery yet. Soybeans and tobacco benefited from the rains. Tobacco stands uneven due to hot, dry weather at and following planting. Early sweet corn and apples being harvested. Soil moisture short.

WYOMING: Temperatures 3 to 7° below normal. Precipitation above normal.

Soil moisture adequate. Winter wheat 72% harvested. Barley 93% turning color, 68% mature, 22% harvested. All row crops in good condition. Range and pastures in good shape, greening up after rains. Potatoes and dry beans, 80 and 84% in bloom respectively. Corn 38% silked. Major activities: Haying and combining.





### July Weather Summary

**HIGHLIGHTS:** Hot, dry weather described conditions in the northern Plains during July. The hottest areas prevailed in eastern South Dakota, southern Minnesota, southern Wisconsin and most of Iowa, as temperatures averaged 3 to 5° above normal for the month. Sioux Falls, S.Dak. scored a record high of 106° on July 8th. In contrast, cooler than normal weather extended from Texas to Tennessee and northeastward through New England. In Texas the average temperature for the month was 8 to 10° below normal. Although precipitation was well above normal in Texas and most of the West, a drought persisted in California. Dry weather dominated the northern Plains lowering yields of small grains and threatening corn and soybeans in the western portion of the Corn Belt.

A Canadian cool air mass invaded the central Plains on the first day of the month and triggered some violent weather, as it displaced the warm moist air from the Gulf of Mexico. On the second day, southeast Kansas recorded nearly 7 inches of rain from a series of thunderstorms.

During the first full week of the month, the air warmed rapidly behind the cool air as it moved south and eastward. The West, the northern Plains and Great Lakes area experienced abnormally warm weather. Average temperatures in the driest parts of Minnesota and Wisconsin ranged up to 12° above normal. The excessive heat increased the moisture demand and intensified the stress on crops.

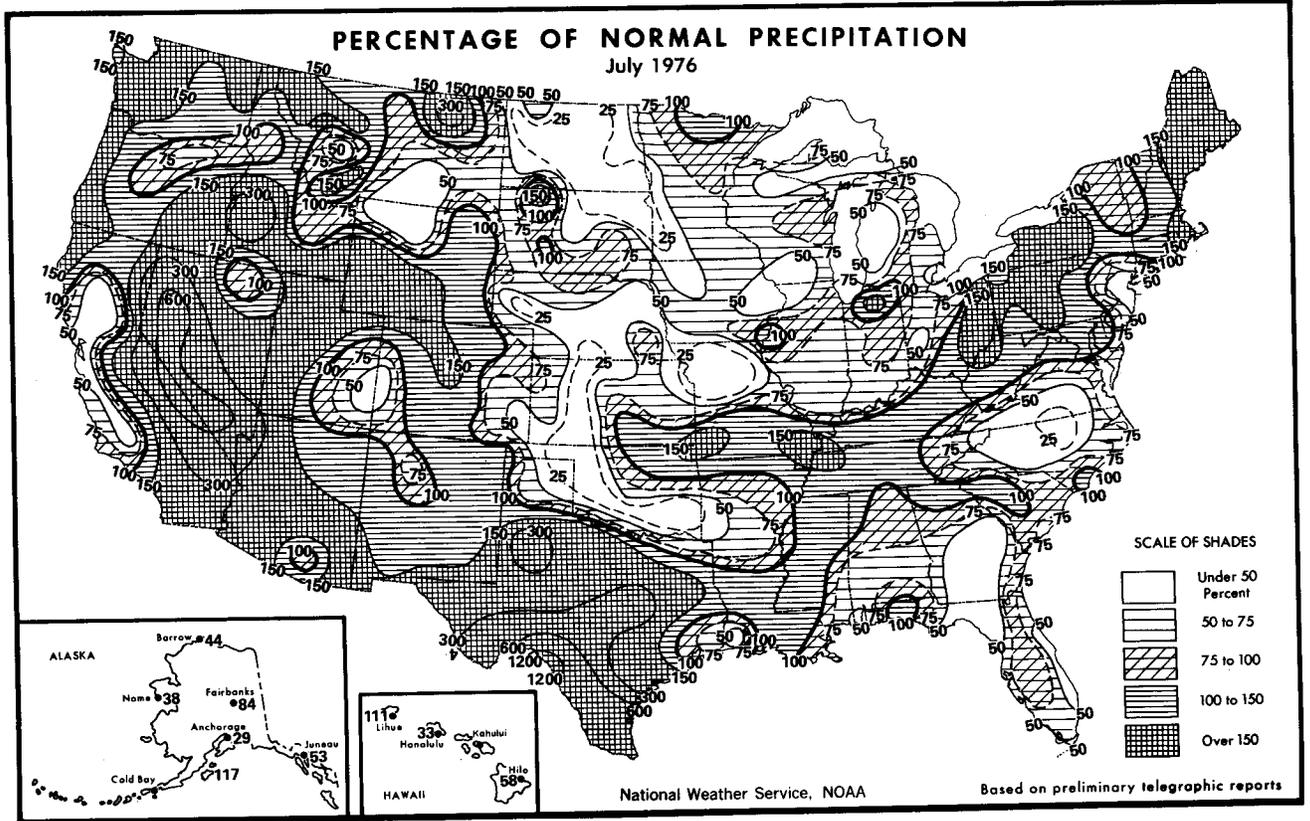
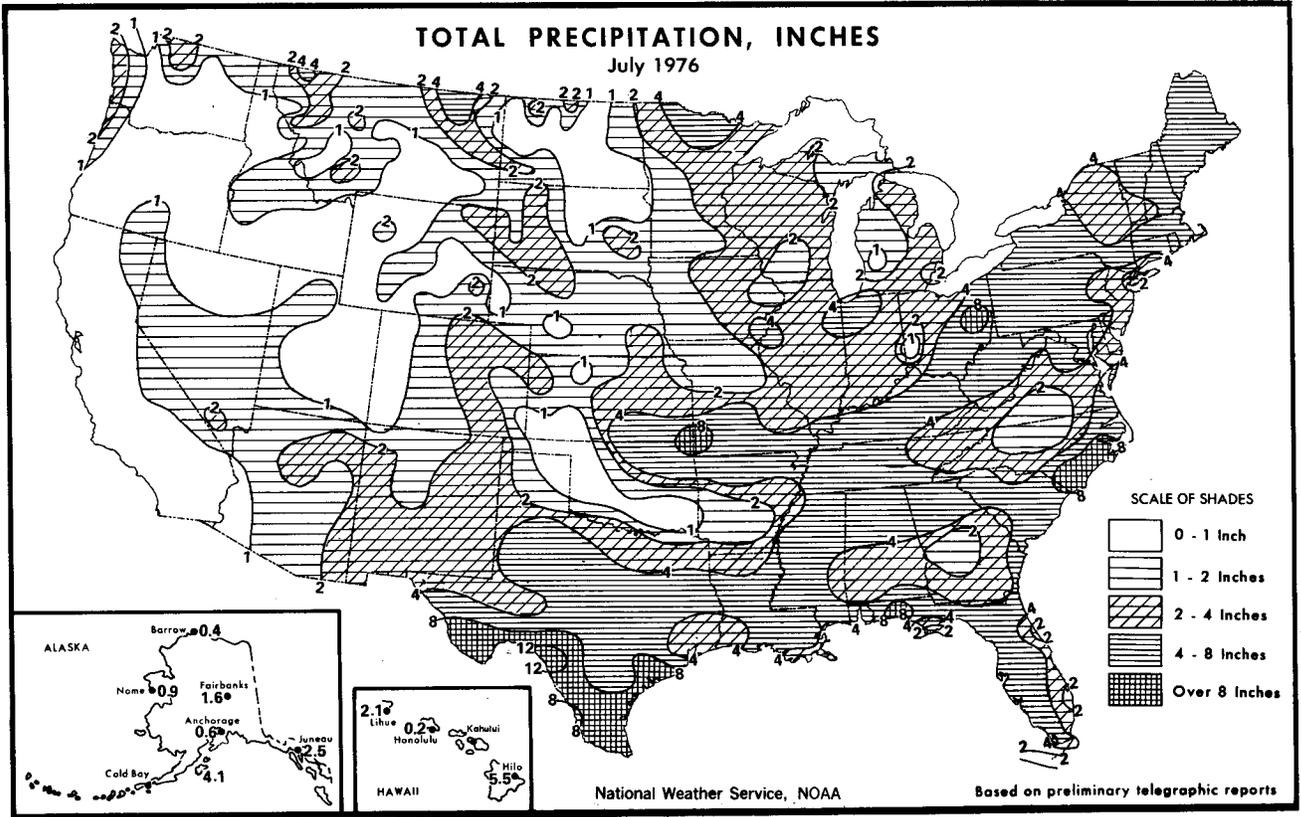
Most rain occurred from Texas eastward and along and east of the Appalachians, but very little rain fell elsewhere. Another surge of cool air swept into the northern Plains at the end of the week and brought light showers and a respite from the extreme heat.

Mid-month brought somewhat better crop weather to the northern Plains. Some rain fell in most of the dry areas and substantial showers dampened southern Minnesota and southeastern South Dakota, while other precipitation concentrated in Texas and along the Appalachians into New England. Numerous showers favored crops and water reservoirs in the Southwest. Although the California mountain areas received some light showers, most of the State acquired no rain and the extreme drought continued.

As the month evolved, more showers favored parts of the dry northern Plains. Although Wisconsin accumulated 1 to 2 inches during the week, some areas remained dry. More showers fell in Minnesota and southeast South Dakota keeping some of the threatened crops alive.

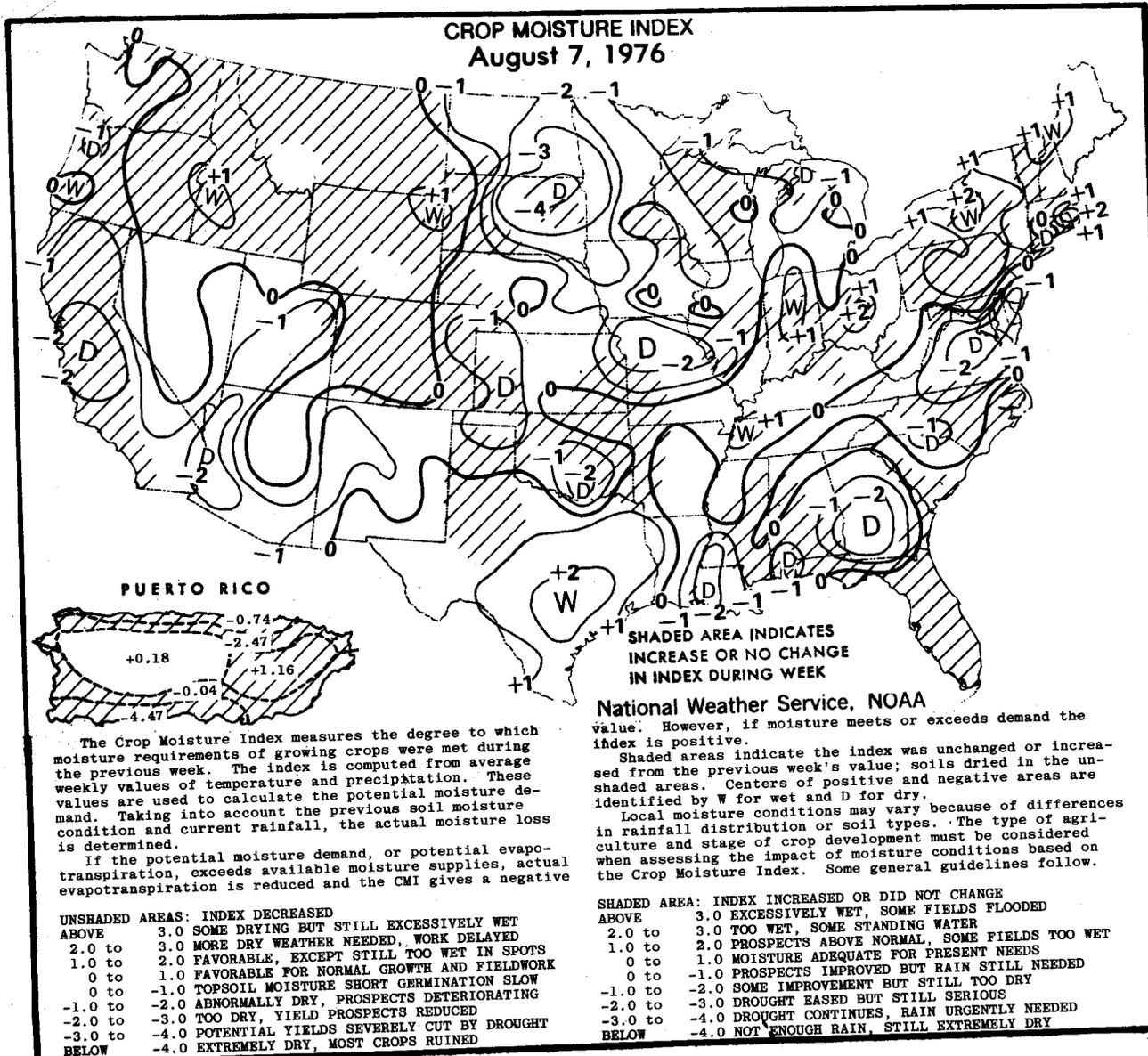
Generally good precipitation fell through the Corn Belt, but some areas lacked adequate moisture. As showers continued in the Southwest, pastures improved and waterholes were filling. Moderate drought prevailed along the East Coast from Long Island to Delaware and inland into Virginia and North Carolina as precipitation seemed to by-pass the area.

The end of the month brought the first dry week in July to the State of Texas and allowed harvesting and other farm work to progress. More rain fell in southern Minnesota, Iowa and Wisconsin and restored enough soil moisture to meet the demand and to benefit the crops. Northern Minnesota and the rest of the northern Plains received little relief from the drought. Temperatures remained generally near normal in most of the Nation.



Temperature and Precipitation Data for July 1976

States and Stations	Temperature °F		Precipitation Inches		States and Stations	Temperature °F		Precipitation Inches		States and Stations	Temperature °F		Precipitation Inches	
	Average	Departure	Total	Departure		Average	Departure	Total	Departure		Average	Departure	Total	Departure
ALA. Birmingham . . .	78	-2	4.9	- .3	La. Baton Rouge . . .	81	-1	7.6	+1.1	Youngstown . . .	69	-2	7.2	+3.3
Mobile . . .	83	+1	4.4	-4.5	Lake Charles . . .	81	-1	2.7	-3.9	OKLA. Okla. City . . .	80	-2	1.4	-1.3
Montgomery . . .	80	-1	3.0	-2.1	New Orleans . . .	81	-1	5.7	-1.0	Tulsa . . .	81	-1	4.4	+ .5
ALASKA Anchorage . . .	59	+1	.6	-1.5	Shreveport . . .	79	-4	3.5	+ .6	OREG. Astoria . . .	61	+1	2.5	+1.5
Barrow . . .	38	-1	.4	- .5	MAINE Caribou . . .	64	-1	6.7	+2.7	Burns . . .	69	+1	.6	+ .3
Fairbanks . . .	62	+1	1.6	- .3	Portland . . .	66	-2	7.5	+4.9	Medford . . .	72	0	.8	+ .5
Juneau . . .	56	0	2.5	-2.2	MD. Baltimore . . .	75	-2	5.6	+1.5	Pendleton . . .	73	-1	.2	- .1
Kodiak . . .	55	+1	4.1	+ .6	MASS. Boston . . .	73	0	4.3	+1.6	Portland . . .	67	0	.7	+ .2
Nome . . .	49	-1	.9	-1.5	Chatham . . .	68	-	4.6	---	Salem . . .	65	-2	.7	+ .3
ARIZ. Flagstaff . . .	67	+1	3.8	+1.3	MICH. Alpena . . .	68	+2	2.0	- .5	PA. Allentown . . .	72	-2	2.1	-2.3
Phoenix . . .	92	+1	1.5	+ .7	Detroit . . .	73	+1	1.5	-1.6	Erie . . .	66	-3	4.4	+ .9
Tucson . . .	84	-2	2.2	- .2	Flint . . .	71	+1	2.0	-1.0	Harrisburg . . .	72	-4	5.5	+1.8
Winslow . . .	78	0	0	1.6	Grand Rapids . . .	73	+1	.8	-2.3	Philadelphia . . .	75	-2	4.0	- .1
Yuma . . .	92	+2	1.3	+ .1	Houghton Lake . . .	67	+1	1.2	-1.9	Pittsburgh . . .	67	-5	4.7	+ .9
ARK. Fort Smith . . .	79	-3	1.3	-1.9	Lansing . . .	71	0	2.6	- .2	Scranton . . .	69	-4	3.2	-1.1
Little Rock . . .	80	-1	1.8	-1.6	Marquette . . .	67	+1	1.5	-1.6	R.I. Providence . . .	70	-2	8.1	+5.2
CALIF. Bakersfield . . .	86	+2	T	0	Muskegon . . .	70	0	1.2	-1.3	S.C. Charleston . . .	81	+1	4.5	-3.7
Eureka . . .	58	+2	.2	+ .1	S. Ste. Marie . . .	63	-1	1.2	-1.4	Columbia . . .	80	-1	6.6	+ .9
Fresno . . .	79	-2	T	0	MINN. Duluth . . .	66	0	2.6	-1.1	Greenville . . .	77	-1	5.8	+1.6
Los Angeles . . .	73	0	0	0	Internatl Falls . . .	66	0	5.7	+1.7	S.D. Aberdeen . . .	75	+3	.5	-2.2
Red Bluff . . .	83	+1	0	0	Minneapolis . . .	76	+4	2.5	-1.2	Huron . . .	75	+1	2.1	- .1
San Diego . . .	71	+1	T	0	Rochester . . .	74	+4	2.0	-1.7	Rapid City . . .	73	0	1.1	-1.0
San Francisco . . .	63	0	T	0	St. Cloud . . .	71	+1	1.9	-1.3	Sioux Falls . . .	77	+4	1.5	-1.4
Stockton . . .	77	0	.1	+ .1	MISS. Jackson . . .	81	-1	5.0	+ .7	TENN. Chattanooga . . .	76	-3	5.6	+ .5
COLO. Denver . . .	75	+2	2.3	+ .5	Meridian . . .	78	-3	3.1	-2.0	Knoxville . . .	76	-2	3.8	- .9
Grand Junction . . .	80	+1	.2	- .3	MO. Columbia . . .	78	+1	.2	-3.2	Memphis . . .	82	0	3.8	+ .3
Pueblo . . .	77	+1	2.1	+ .2	Kansas City . . .	79	0	.8	-3.6	Nashville . . .	76	-4	4.0	+ .2
CONN. Bridgeport . . .	72	-2	2.1	-1.3	St. Louis . . .	80	+1	2.3	-1.4	TEX. Abilene . . .	78	-6	4.3	+2.0
Hartford . . .	72	-1	3.5	+ .1	Springfield . . .	77	-1	4.6	+1.0	Amarillo . . .	75	-4	1.8	-1.2
D.C. Washington . . .	78	-1	4.5	+4.4	MONT. Billings . . .	74	+2	.1	- .8	Austin . . .	80	-5	4.7	+2.8
FLA. Apalachicola . . .	81	0	.8	- .7	Glasgow . . .	70	-1	5.0	+3.6	Beaumont . . .	81	-2	4.0	-1.9
Daytona Beach . . .	81	0	1.1	-5.6	Great Falls . . .	70	+1	2.1	+ .8	Brownsville . . .	81	-3	9.4	+8.2
Ft. Myers . . .	82	-1	6.1	-2.8	Havre . . .	72	+2	1.2	- .2	Corpus Christi . . .	81	-4	11.9	+10.0
Jacksonville . . .	82	+1	5.4	-2.0	Helena . . .	68	0	.3	- .7	Dallas . . .	---	---	---	---
Key West . . .	85	0	.8	-3.3	Kalispell . . .	65	+1	1.6	+ .6	Del Rio . . .	78	-9	13.2	+12.2
Lakeland . . .	83	+1	7.9	- .2	Miles City . . .	76	+2	1.1	- .5	El Paso . . .	78	-4	3.2	+1.7
Miami . . .	83	+1	3.8	-3.1	Missoula . . .	67	0	1.2	+ .3	Fort Worth . . .	82	-3	3.8	+2.0
Orlando . . .	82	+1	7.1	-1.2	NEBR. Grand Island . . .	77	+1	1.1	-1.9	Galveston . . .	81	-2	5.6	+1.2
Tallahassee . . .	82	+1	4.2	-4.7	Lincoln . . .	78	+1	3.0	- .3	Houston . . .	81	-2	3.9	- .2
Tampa . . .	82	0	4.6	-3.8	Norfolk . . .	77	+1	1.2	-2.0	Lubbock . . .	75	-5	7.2	+5.0
W. Palm Beach . . .	81	-1	1.7	-4.8	N. Platte . . .	73	-1	.9	-2.1	Midland . . .	76	-6	3.6	+1.8
GA. Atlanta . . .	76	-2	4.3	- .6	Omaha . . .	79	+4	1.5	-2.2	San Angelo . . .	76	-9	3.5	+2.3
Augusta . . .	82	+2	2.0	-3.1	Valentine . . .	75	+1	2.1	- .4	San Antonio . . .	80	-5	5.4	+3.7
Macon . . .	81	0	2.0	-2.5	NEV. Ely . . .	67	0	1.6	+1.0	Victoria . . .	81	-3	5.8	+3.0
Savannah . . .	82	+1	7.6	- .3	Las Vegas . . .	87	-3	2.0	+1.6	Waco . . .	82	-4	7.4	+5.9
HAWAII. Hilo . . .	75	0	5.5	-4.0	Reno . . .	69	0	1.0	+ .7	Wichita Falls . . .	81	-5	4.0	+1.8
Honolulu . . .	80	0	.2	- .4	Winnemucca . . .	74	+3	4.4	+ .2	UTAH. Blanding . . .	73	0	.5	- .5
Kahului . . .	---	---	---	---	N.H. Concord . . .	67	-3	3.2	+ .1	Salt Lake City . . .	79	+2	1.6	+ .9
Lihue . . .	80	+2	2.1	+ .2	N.J. Atlantic City . . .	73	-2	2.2	-2.2	VT. Burlington . . .	69	-1	3.1	- .4
IDAHO. Boise . . .	73	-2	1.2	+1.0	Trenton . . .	74	-2	2.0	-2.7	VA. Lynchburg . . .	74	-2	1.3	-2.8
Lewiston . . .	74	+1	.4	- .1	N.MEX. Albuquerque . . .	77	-2	1.3	- .1	Norfolk . . .	78	0	5.2	- .5
Pocatello . . .	72	0	.8	+ .4	Roswell . . .	79	0	2.4	+ .7	Richmond . . .	77	-1	2.6	-3.0
ILL. Cairo . . .	80	-1	5.3	+2.1	N.Y. Albany . . .	69	-3	2.6	- .5	Roanoke . . .	74	-1	1.2	-2.5
Chicago . . .	75	0	3.1	-1.0	Binghamton . . .	66	-3	6.4	+2.6	WASH. Colville . . .	65	-3	1.1	+ .4
Moline . . .	76	+1	3.3	-1.3	Buffalo . . .	68	-2	5.7	+2.8	Omak . . .	70	0	.7	+ .2
Peoria . . .	75	0	3.0	- .8	New York . . .	76	-1	1.0	-2.9	Quillayute . . .	58	-1	3.4	+1.0
Rockford . . .	73	0	2.1	-2.2	Rochester . . .	69	-2	5.2	+2.3	Seattle-Tacoma . . .	66	+1	1.2	+ .5
Springfield . . .	77	+1	2.3	-1.5	Syracuse . . .	67	-5	5.2	+2.1	Spokane . . .	69	-1	.8	+ .4
IND. Evansville . . .	77	-1	2.1	-1.7	N.C. Asheville . . .	71	-3	3.2	-1.7	Walla Walla . . .	74	-2	.3	0
Ft. Wayne . . .	73	0	3.2	- .7	Charlotte . . .	77	-2	2.3	-2.3	Yakima . . .	69	-2	.3	+ .1
Indianapolis . . .	74	-1	3.1	- .6	Greensboro . . .	76	-1	1.9	-2.5	W.Va. Beckley . . .	68	-2	3.6	- .8
South Bend . . .	73	+1	6.0	+2.3	Hatteras . . .	78	0	4.3	-1.6	Charleston . . .	72	-3	6.9	+1.9
IOWA. Burlington . . .	76	+1	5.0	+1.2	Raleigh . . .	79	+1	1.0	-4.1	Huntington . . .	73	-2	5.5	+1.3
Des Moines . . .	77	+2	1.9	-1.4	Wilmington . . .	82	+2	8.3	0	Parkersburg . . .	72	-3	6.5	+2.2
Dubuque . . .	73	+1	2.0	-2.3	N.DAK. Bismarck . . .	71	0	.5	-1.7	WIS. Green Bay . . .	72	+3	3.0	- .1
Sioux City . . .	76	+1	1.5	-1.8	Fargo . . .	72	+1	.6	-2.6	La Crosse . . .	75	+2	2.2	-1.3
KANS. Concordia . . .	80	+2	1.2	-2.1	Williston . . .	71	+1	.5	-1.5	Madison . . .	73	+3	1.5	-2.3
Dodge City . . .	80	+1	.5	-2.6	OHIO. Akron-Canton . . .	69	-3	9.0	+5.2	Milwaukee . . .	73	+3	2.1	-1.3
Goodland . . .	76	0	2.6	- .1	Cincinnati . . .	74	-2	2.3	-1.8	WYO. Casper . . .	73	+2	1.1	+ .1
Topeka . . .	78	0	2.0	-2.2	Cleveland . . .	72	+1	3.5	0	Cheyenne . . .	69	0	2.4	+ .6
Wichita . . .	78	-3	6.1	+1.7	Columbus . . .	72	-2	5.1	+ .9	Lander . . .	73	+2	1.1	+ .5
KY. Lexington . . .	73	-3	6.7	+1.9	Dayton . . .	73	-2	1.0	-2.5	Sheridan . . .	72	+2	.7	- .4
Louisville . . .	77	0	2.1	-1.7	Toledo . . .	72	0	2.1	-1.1	P.R. San Juan . . .	83	+2	2.5	-3.9



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### World Weather and Crop Update

Frequent and substantial rains broke the dry spell in Argentina last week, enhanced winter wheat prospects, and provided moisture to complete planting of small grains. Rains, often exceeding 1 inch, also relieved droughty conditions in central and eastern Europe. Preceding dry weather in July favored small grain harvest but stressed corn and other summer crops.

April through July precipitation in East Germany averaged 47 percent of normal and seriously lowered agricultural productivity. Rainfall amounts last week, though useful, totaled among the least in East Europe.

Good rains skipped much of western Europe, particularly England, France, Portugal and parts of adjacent countries. Italy and the Alp region fared better.

Showers and thunderstorms hindered small grain harvest in European USSR; on the other hand, they benefited crops east of the Urals and in the Amur

Valley of the Far East.

Tropical storm Clara brought locally heavy rains to the southeastern coast of the People's Republic of China (PRC). Early rice harvest was probably completed. Manchuria and the North China Plain received crop sustaining rains.

Monsoon showers pranced over India but by-passed hard hit Sri Lanka. Sunny weather prevailed over Java and Indonesia and caused further deterioration of rice and other crops. Little or no rain fell in June and July.

Rain edged into the coastal areas of southern Australia, but the powder dry winter wheat zones of the south and southeast received little precipitation.

Below normal rain in July for Columbia stressed crops. The Country fared no better as the first week of August stayed relatively dry. The drought in Brazil's northeast interior entered its sixth month. Light showers failed to arrest growing stressed areas in southern Manitoba, Canada.