

# WEEKLY WEATHER AND CROP BULLETIN

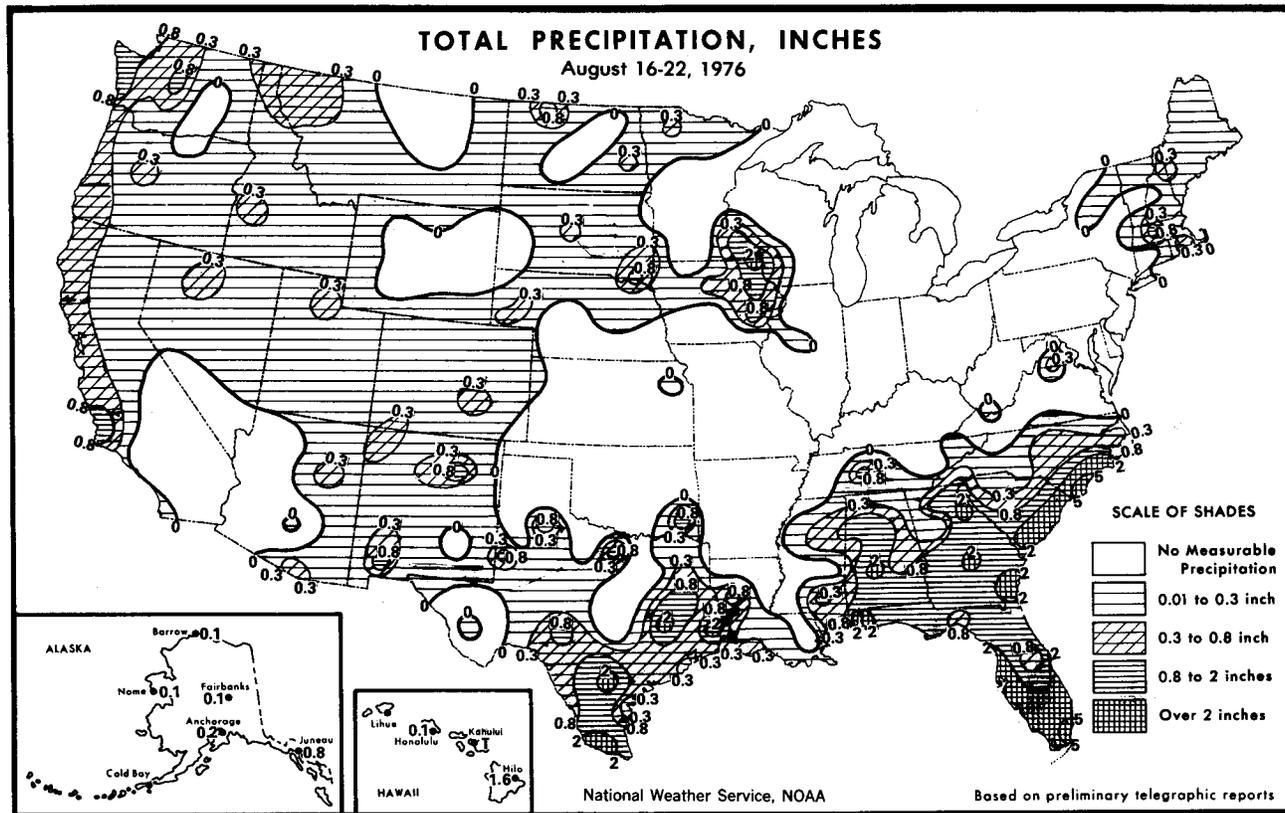
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## National Weather Summary

For the Week of August 16-22

**HIGHLIGHTS:** Although cool temperatures covered much of the Nation throughout the week, some hot weather heated Kansas and the Dakotas. In both instances, new records broke long-standing old ones. Tropical storm Dottie moved inland to South Carolina and pummeled both Carolinas with heavy rains and high winds, although she lost her tropical storm status while inland.

Cool early morning temperatures persisted over a large portion of the country on Monday. As the day evolved, readings ranged in the 70's in the northern and middle Atlantic Coast States, across the middle Mississippi Valley, and from the Rockies into the Pacific Northwest. Seasonable 80's prevailed across the southern third of the Nation, as parts of Kansas ranged from 90° to more than 100°.

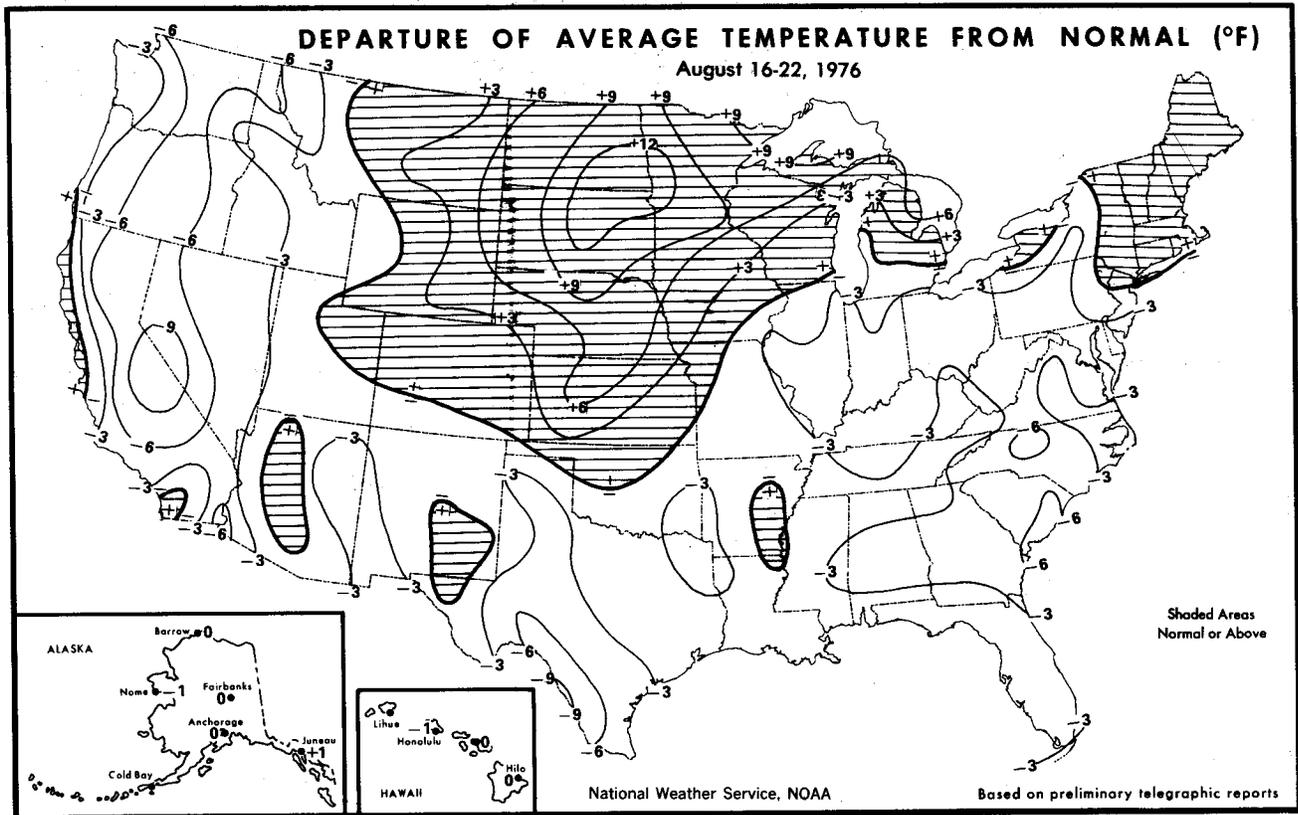
Although limited precipitation fell in most of the country, a thunderstorm delivered heavy rains

of more than 1 inch in just 1 1/2 hours in the southern coastal area of North Carolina. A heavy thundershower also dumped nearly 1 1/2 inches of rain at Ellington AFB, Texas in a 6-hour period.

Isolated severe weather dotted the southeastern parts of the Nation with rain, gusty winds, hail, and some tornado activity. Fair and cool weather prevailed over the northeastern sections of the country.

A large high pressure system, centered over lower Michigan, chilled the upper Ohio Valley and lower Great Lakes area early Tuesday morning. Minimum temperatures in the 40 degree range broke records which had endured for more than 95 years. In Michigan, Watervliet and Grand Junction reported only 38° and Grand Rapids listed 45°, while Chicago (Illinois) Midway Airport registered 48°.

The same high pressure system that brought cooler temperatures also brought a drier air mass



that provided clear skies to much of the northern and Atlantic Coast States.

By afternoon, southerly winds pulled hot weather into portions of the northern Plains. Pierre, S. Dak. reported the hottest reading in the Nation with 108°. The lower Great Lakes area and the upper Ohio Valley recovered rapidly from early morning lows, as temperatures soared to the 80 degree range.

The eastern high pressure system pushed very cool air from the upper Ohio Valley into the central Appalachians, New England, and into the middle and southern Atlantic Coast States on Wednesday. Upper Michigan and New England listed lows in the 40's, while most of the remaining areas recorded minimums in the 50's, more than 15 degrees below seasonal norms.

By contrast, Kansas reported temperatures in the 90's and humidity at about 70%. Some cities in the Dakotas registered readings well above the 100 degree mark.

Showers dampened an area from western Oregon into central California. San Francisco registered about 1/4 inch of rain, which brought the city's monthly total to a record high of .60 inches.

Tropical storm Candice formed in the western Atlantic Ocean and moved about 15 to 20 mph in a north northeasterly direction.

Generally clear skies and light winds under a high pressure system combined to give the southeastern section of the Nation a chilly reception Thursday. North Carolina, northwest Florida, Alabama, and Mississippi reported temperatures as much as 10 to 20 degrees below normal. New England and the middle Atlantic States remained rather cool, with temperatures in the 40's in northern New England and in the 50's elsewhere.

The heaviest rain in the Nation fell over south-

ern Florida, where a tropical depression triggered some heavy showers and thundershowers. Miami reported just over 3 inches in a 24-hour period. A weak low pressure center over central California caused some locally heavy rainfall along the coast, but only light showers occurred inland.

A line of heavy thunderstorms moved through northwestern Minnesota, eastern North Dakota, and central South Dakota, but limited rain fell in those areas. Other thunderstorms pushed from Texas into the central Rockies and from Florida through the southern half of the Atlantic Coast.

In the late afternoon, tropical storm Dottie lingered just east of Vero Beach, Fla. with maximum wind gusts of 50 mph.

Tropical storm Dottie started her move inland near Charleston, S. C., accompanied by heavy rain and gusty winds, on Friday.

Mostly cloudy skies persisted over the Pacific Coast, the southeastern coastal Plains, extreme southern Texas, and portions of Florida. Southern Texas and eastern Colorado reported a few isolated thundershowers.

Elsewhere, mostly sunny skies prevailed. Temperatures pushed upward in the northern Plains, the upper Mississippi Valley, and the western Great Lakes region. Michigan, North Dakota, South Dakota, and Minnesota scored record highs and, in some cases, broke long-standing records.

Although Dottie lost her tropical storm status, she still managed to drop more than 5 inches of rain in the Wilmington, N. C. area on Saturday.

Nevada laid claim to the Nation's severe weather, as thunderstorm winds gusted to more than 60 mph at Battle Mountain and Winnemucca on Sunday. A little more than an inch of rain fell over Lovelock, Nev.

## National Agricultural Summary

For Week of August 16-22

**HIGHLIGHTS:** Scorching temperatures and limited rainfall coupled with depleted soil moisture supplies put additional stress on row crops in many of the western North Central States. Corn and, particularly, soybeans need sufficient moisture to improve grain or bean development. Most of the United States lacked adequate soil moisture; exceptions included Florida, Pennsylvania, Oregon, Washington and Idaho. Rainfall slowed small grain harvests in the Northwest.

**SMALL GRAINS:** Farmers combined the winter wheat and spring wheat crops in the Pacific Northwest, Minnesota, the Dakotas, and some of the Mountain States. Rains slowed harvesting operations in the Pacific Northwest, Montana and Idaho. Oats combining neared completion, ahead of last year and the average.

Rains intermittently delayed grain harvest in Montana and resulted in only minimal lodging of wheat. Winter wheat harvest reached 65% complete. Spring wheat harvest advanced to 55%, another 35% was ripe, and the rest of the crop turned color. Extreme heat in North Dakota sped small grains to maturity. Combining stood at 70% complete for spring wheat, 50% for durum and 85% for oats. Normally, 40% of the spring wheat, 22% of the durum, and 57% of the oats is harvested by this time. Washington's small grain harvest lagged 2 weeks behind normal and the wet weather also threatened losses from sprouting.

**CORN:** High temperatures and depleted soil moisture kept the corn crop in most of the western North Central States under stress. Most of the Nation's corn crop remained in fair to good condition, but the crop deteriorated without much needed rains. Frost nipped some of northern Wisconsin's corn.

Harvest activity extended into Arkansas and Georgia. In Texas, harvest reached 19% complete, about the same as previous years. In the eastern North Central States, development ranged from 40% dough stage in Wisconsin to 10% mature in Ohio. Development exceeded previous years in Ohio, Indiana and Michigan, but lagged in Illinois and Wisconsin. In the western North Central States, 20 to 39% of the corn was dented, except in South Dakota where development advanced slower. Maturity remained behind last year in all States, except Minnesota.

Hot, dry weather caused considerable variation in Wisconsin's corn crop. Some early corn was denting, but late corn needs a long fall for proper maturity. Iowa corn suffered most severely in the west central, and northern third, with barren stalks and poorly filled ears. Elsewhere, the Iowa crop is in good to excellent condition. Nebraska's dryland corn remained in poor to fair condition, but irrigated corn was listed in good shape. South Dakota farmers placed corn, earmarked for grain, into silos or pastured the poor fields.

**SOYBEANS:** The United States soybean crop scored fair to good in condition, but most of the crop in the western North Central States needs rain to fill the pods. Pod set reached 65% complete in Ohio and Indiana, but advanced to 94% in Illinois. This stage of maturity surpassed the normal, but lagged last year's rate. Some early plantings in Ohio began turning yellow. In the western North Central States, pod set ranged from 60% complete in Kansas to over 90%

finished in Minnesota and South Dakota, generally behind recent years. Some of the Minnesota fields started turning color.

In the South Central States pod set ranged from 45% complete in Tennessee to 72% in Louisiana, slightly slower than recent years.

**COTTON:** The Nation's cotton crop rated fair to good condition. Setting bolls neared the final phase. In a few States, other than Texas, some bolls began opening. In Texas, picking hit 4% complete, equalling the average, but short of last year's 6%. In Texas and Arkansas, plants under stress from dry soil conditions dropped squares and small bolls. Dryland cotton needs rain throughout most of the western South Central States. In Arizona, late cotton squared profusely, and early cotton matured rapidly. California's crop developed an excellent boll set.

**OTHER CROPS:** Heading of the fair to good United States sorghum crop reached 65% in Kansas and South Dakota, 83% in Missouri. It neared completion in Nebraska, where a third of the crop turned color. Harvesting progressed in several Southern States. With 47% of the crop harvested in Texas, it matched the average rate but slipped from 1975's 53% complete. Heading is widespread on the northern High Plains but most fields need rain. Mississippi growers combined 13% of their crop, equalling last year's rate. In Oklahoma, only a small acreage reached maturity, compared with 10% on the average.

The Nation's rice crop remained in good condition. In Arkansas, farmers harvested a few fields and drained more early fields in preparation for combining. Rice harvest progressed rapidly in Texas, where 88% of the crop was combined compared with 75% last year and 64% average. In Louisiana 69% of the rice crop reached the ripe stage. Farmers harvested 45% of the crop, short of 1975's 47% but ahead of the 41% average.

The U. S. peanut crop rated mostly good, but the condition declined in Virginia. Harvesting started in Georgia with 2% of the crop dug and 1% threshed, the same as last year but a point less than average. Although the Texas harvest reached 8% completion and equalled last year's crop, it fell far behind the 15% average. The need for rain in Texas again dominated the weather scene.

**FRUITS AND NUTS:** Peach harvest remained most active in the Northeast, Michigan, and Pacific Coast. Apple harvest continued throughout the Nation. California rains caused peach and prune damage, but sparked apple prospects. Pennsylvania's apples reached good size.

**VEGETABLES:** Summer vegetable harvests began declining in northern production areas. Rains slowed tomato maturity and picking in California. Arizona, Texas and Florida actively prepared the land for fall vegetable planting.

**PASTURES AND LIVESTOCK:** Pastures, in fair to good condition, deteriorated throughout the central United States, which reflected the low soil moisture reserves and no rain. Rains improved California pastures. Cattle were rated in good condition, but marketings remained heavy from dry areas.

Temperature and Precipitation Data for the Week Ending Midnight, I.s.t., August 22, 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	-3	.9	0	LA. Baton Rouge . . .	81	-1	T	-1.0	Youngstown . . .	66	-3	0	-.7
Mobile . . .	80	-1	2.1	+.6	Lake Charles . . .	81	-1	.2	-.8	OKLA. Okla. City . . .	81	0	0	-.6
Montgomery . . .	77	-4	.5	-.2	New Orleans . . .	81	-1	T	-1.1	Tulsa . . .	81	0	0	-.6
ALASKA. Anchorage . . .	56	0	.2	-.4	Shreveport . . .	79	-4	0	-.6	OREG. Astoria . . .	59	-1	.6	+.2
Barrow . . .	37	0	.1	-.1	MAINE. Caribou . . .	62	0	.1	-.7	Burns . . .	59	-7	.2	+.1
Fairbanks . . .	55	0	.1	-.4	Portland . . .	66	0	.1	-.5	Medford . . .	66	-4	.3	+.2
Juneau . . .	55	+1	.8	-.3	MD. Baltimore . . .	71	-4	0	-1.0	Pendleton . . .	65	-6	T	-.1
Kodiak . . .	55	-	-	-	MASS. Boston . . .	73	+2	.1	-.7	Portland . . .	64	-2	.1	-.1
Nome . . .	48	-1	.1	-.7	Chatham . . .	68	-	0	-	Salem . . .	62	-4	.1	0
ARIZ. Flagstaff . . .	63	0	T	-.6	MICH. Alpena . . .	72	+8	0	-.6	PA. Allentown . . .	71	0	0	-.9
Phoenix . . .	90	+1	T	-.3	Detroit . . .	69	-2	0	-.8	Erie . . .	67	0	0	-.8
Tucson . . .	83	0	.1	-.4	Flint . . .	69	+1	0	-.8	Harrisburg . . .	71	-3	0	-.7
Winslow . . .	72	-4	.6	+.2	Grand Rapids . . .	70	0	0	-.6	Philadelphia . . .	73	-2	0	-.9
Yuma . . .	87	-6	0	-.1	Houghton Lake . . .	68	+3	0	-.5	Pittsburgh . . .	65	-5	0	-.7
ARK. Fort Smith . . .	78	-3	T	-.6	Lansing . . .	67	-2	0	-.6	Scranton . . .	70	0	0	-.7
Little Rock . . .	80	0	0	-.7	Marquette . . .	74	+9	0	-.7	R.I. Providence . . .	70	0	.8	-.1
CALIF. Bakersfield . . .	75	-6	0	0	Muskegon . . .	67	-2	0	-.6	S.C. Charleston . . .	74	-6	2.3	+.9
Eureka . . .	59	+2	.7	+.6	S. Ste. Marie . . .	59	+6	0	-.7	Columbia . . .	77	-3	.7	-.6
Fresno . . .	69	-9	.2	+.2	MINN. Duluth . . .	72	+8	0	-.9	Greenville . . .	73	-4	T	-.9
Los Angeles . . .	69	-5	0	0	Internatl Falls . . .	71	+8	.2	-.6	S.D. Aberdeen . . .	84	+14	T	-.5
Red Bluff . . .	72	-7	.3	+.2	Minneapolis . . .	79	+9	T	-.7	Huron . . .	83	+11	T	-.5
San Diego . . .	72	0	T	0	Rochester . . .	73	+5	1.0	+.2	Rapid City . . .	79	+8	T	-.4
San Francisco . . .	66	+3	.4	+.4	St. Cloud . . .	77	+9	0	-.9	Sioux Falls . . .	81	+9	.5	-.1
Stockton . . .	71	-4	.2	+.2	MISS. Jackson . . .	80	-1	T	-.8	TENN. Chattanooga . . .	76	-2	T	-.6
COLO. Denver . . .	73	+2	T	-.3	Meridian . . .	77	-4	T	-.8	Knoxville . . .	75	-2	T	-.7
Grand Junction . . .	77	+2	T	-.3	MO. Columbia . . .	75	-1	0	-.7	Memphis . . .	79	-1	0	-.7
Pueblo . . .	75	+1	.4	0	Kansas City . . .	79	+2	T	-.8	Nashville . . .	73	-5	.2	-.5
CONN. Bridgeport . . .	73	+1	.2	-.6	St. Louis . . .	74	-3	0	-.6	TEX. Abilene . . .	81	-3	T	-.4
Hartford . . .	71	+1	T	-.9	Springfield . . .	75	-2	T	-.6	Amarillo . . .	75	-3	0	-.7
D.C. Washington . . .	74	-3	0	-1.1	MONT. Billings . . .	73	+3	T	-.3	Austin . . .	82	-3	T	-.5
FLA. Apalachicola . . .	79	-2	1.1	-.7	Glasgow . . .	70	+1	T	-.4	Beaumont . . .	81	-2	.3	-1.0
Daytona Beach . . .	79	-2	1.4	-.2	Great Falls . . .	68	+1	T	-.3	Brownsville . . .	81	-3	1.7	+1.0
Ft. Myers . . .	82	-1	3.0	+1.3	Havre . . .	69	+1	T	-.2	Corpus Christi . . .	80	-5	.2	-.6
Jacksonville . . .	78	-3	1.6	-.2	Helena . . .	65	-1	T	-.2	Dallas . . .	80	-6	.4	+.1
Key West . . .	82	-3	3.6	+2.6	Kalispell . . .	58	-4	.6	+.3	Del Rio . . .	77	-3	.1	-.1
Lakeland . . .	81	-1	.8	-.8	Miles City . . .	77	+5	T	-.3	El Paso . . .	77	-3	.1	-.1
Miami . . .	80	-3	6.0	+4.5	Missoula . . .	60	-5	.3	+.1	Fort Worth . . .	83	-2	0	-.5
Orlando . . .	81	-1	.7	-.8	NEBR. Grand Island . . .	82	+7	T	-.6	Galveston . . .	83	0	.3	-.7
Tallahassee . . .	80	-1	.7	-.8	Lincoln . . .	81	+6	0	-.8	Houston . . .	81	-2	.5	-.5
Tampa . . .	80	-2	3.6	+1.8	Norfolk . . .	81	+7	.1	-.5	Lubbock . . .	77	-1	0	-.4
W. Palm Beach . . .	80	-2	2.9	+1.3	N. Platte . . .	77	+4	T	-.4	Midland . . .	77	-5	T	-.3
GA. Atlanta . . .	75	-3	T	-.8	Omaha . . .	80	+6	T	-.9	San Angelo . . .	80	-4	.2	-.1
Augusta . . .	75	-5	.9	0	Valentine . . .	81	+9	.1	-.5	San Antonio . . .	80	-5	1.0	+.4
Macon . . .	77	-4	1.3	+.5	NEV. Ely . . .	61	-4	T	-.1	Victoria . . .	81	-4	.6	-.1
Savannah . . .	75	-6	1.0	-.4	Las Vegas . . .	82	-5	0	-.1	Waco . . .	85	-1	0	-.4
HAWAII. Hilo . . .	76	0	1.6	-.9	Reno . . .	58	-8	.1	0	Wichita Falls . . .	83	-2	0	-.4
Honolulu . . .	80	-1	.1	-.1	Winnemucca . . .	63	-4	.4	+.3	UTAH. Blanding . . .	68	-2	T	-.4
Kahului . . .	79	0	T	-.1	N.H. Concord . . .	67	0	T	-.6	Salt Lake City . . .	74	0	.3	+.1
Lihue . . .	79	0	T	-.1	N.J. Atlantic City . . .	68	-5	0	-1.1	VT. Burlington . . .	67	0	.2	-.6
IDAHO. Boise . . .	67	-5	.5	+.4	Trenton . . .	73	-1	0	-.9	VA. Lynchburg . . .	72	-2	T	-.9
Lewiston . . .	68	-3	.2	+.1	N.MEX. Albuquerque . . .	75	-1	.3	0	Norfolk . . .	74	-3	T	-1.3
Pocatello . . .	67	-2	.2	+.1	Roswell . . .	80	+2	T	-.3	Richmond . . .	73	-3	0	-1.1
ILL. Cairo . . .	76	-3	0	-.8	N.Y. Albany . . .	69	0	T	-.8	Roanoke . . .	70	-4	0	-1.0
Chicago . . .	71	-3	0	-.7	Binghamton . . .	67	0	0	-.8	WASH. Colville . . .	60	-6	.2	0
Moline . . .	72	-1	T	-.7	Buffalo . . .	69	+1	0	-.8	Omak . . .	61	-7	.1	0
Peoria . . .	71	-2	T	-.7	New York . . .	75	0	0	-1.0	Quillayute . . .	56	-3	1.4	+.8
Rockford . . .	70	-1	T	-.8	Rochester . . .	70	+1	0	-.7	Seattle-Tacoma . . .	62	-2	.5	+.2
Springfield . . .	71	-3	T	-.6	Syracuse . . .	66	-3	T	-.8	Spokane . . .	63	-5	.3	+.2
IND. Evansville . . .	73	-3	0	-.6	N.C. Asheville . . .	69	-4	T	-1.0	Walla Walla . . .	68	-5	.1	0
Ft. Wayne . . .	69	-2	0	-.6	Charlotte . . .	73	-5	.1	-.8	Yakima . . .	62	-6	T	-.1
Indianapolis . . .	70	-3	0	-.6	Greensboro . . .	69	-7	.3	-.7	W.Va. Beckley . . .	65	-4	T	-.8
South Bend . . .	69	-2	0	-.7	Hatteras . . .	76	-1	.6	-.9	Charleston . . .	69	-4	0	-.8
IOWA. Burlington . . .	71	-3	0	-.8	Raleigh . . .	72	-4	.5	-.6	Huntington . . .	72	-2	0	-.7
Des Moines . . .	76	+3	0	-.8	Wilmington . . .	76	-3	T	+5.6	Parkersburg . . .	70	-4	0	-.7
Dubuque . . .	71	+1	.2	-.7	N.DAK. Bismarck . . .	78	+9	0	-.5	WIS. Green Bay . . .	70	+2	T	-.6
Sioux City . . .	79	+6	.1	-.6	Fargo . . .	82	+13	T	-.6	La Crosse . . .	75	+4	T	-.7
KANS. Concordia . . .	84	+7	0	-.7	Williston . . .	74	+6	T	-.4	Madison . . .	70	+1	0	-.7
Dodge City . . .	83	+5	0	-.6	OHIO. Akron-Canton . . .	66	-4	0	-.6	Milwaukee . . .	71	+2	0	-.6
Goodland . . .	77	+3	T	-.5	Cincinnati . . .	71	-3	0	-.6	WYO. Casper . . .	72	+3	0	-.1
Topeka . . .	79	+2	.1	-.9	Cleveland . . .	67	-3	0	-.7	Cheyenne . . .	68	+1	.3	0
Wichita . . .	81	+1	0	-.7	Columbus . . .	68	-4	0	-.6	Lander . . .	69	0	T	-.1
KY. Lexington . . .	71	-4	0	-.7	Dayton . . .	68	-5	0	-.6	Sheridan . . .	70	+1	.1	-.1
Louisville . . .	73	-3	0	-.6	Toledo . . .	68	-3	0	-.7	P.R. San Juan . . .	84	+3	.6	-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:** Thundershowers produced brief and localized flooding, but many areas had less than 0.10 in. Dry weather most prevalent over Tennessee Valley. Weather fair remainder of week with exception of few showers over coastal section 22d. Temperatures below normal.

Dry conditions. Soil moisture short. Cotton condition good, 94% setting bolls. Corn good with 89% dented, 86% 1975; 57% mature, 49% 1975; 13% harvested. Soybeans good condition, 82% blooming, 90% 1975; 63% setting pods, 75% 1975. Peanut condition fair to good. Hay cutting 73% complete. Sorghum fair to good.

**ALASKA:** Tanana Valley scattered rain fell. Totals generally below normal. Cloudy but temperatures averaged above normal. Matanuska Valley temperatures near normal. Highs below seasonal levels with lows above normal. Rain fell in places every day but totals below normal. Kenai Peninsula cloudy weather with light rain all but last of week. Rainfall above normal in south and below normal in north. Afternoon high temperatures below normal but nighttime lows above normal. Kodiak Island cloudy and mild. Weekly rainfall below normal. Temperatures slightly above normal.

Soil moisture generally short throughout rail-belt. Grain fields virtually turned color with about 20% ripe. Grain harvest to begin last of August. Second cutting hay and grass silage barely begun. Grain silage about 15% harvested in Matanuska Valley and 100% harvested in Tanana Valley. Potato harvest began in Tanana and Matanuska Valley.

**ARIZONA:** Precipitation heavy some areas of White Mountains. Temperatures 1 to 6° below normal, except south central, southeast near normal.

Cotton good progress, continuing cultivation, irrigation. Late cotton progressing nicely, squaring abundantly. Early cotton maturing rapidly. Insect problems limited, insecticide applications continue. Sorghum various stages, maturing rapidly. Earliest plantings ready harvest. Southwestern cornborer infested late fields. Baling hay continues, some renovations. Fall vegetable planting continued. Limited lemon harvest underway. Stock water adequate higher elevations, short to adequate desert. Rains at higher elevations where pastures good to excellent condition. Desert ranges deteriorated. Livestock good condition, some supplemental feeding lower elevations.

**ARKANSAS:** Few showers first part, greatest 0.34 in. with numerous areas none or less than 0.25 in. Mean temperatures ranged from 81 to 74°. Extremes: 99 and 50° El Dorado.

Soybeans hurt by hot, dry weather. Irrigation continued. Fair condition with some early beans forming pods. Cotton fair condition. Dry conditions caused shedding of small bolls. Some open bolls. Rice good condition. Some early fields drained in preparation for harvest, few fields already harvested. Corn silage harvest nearing completion, some grain harvest underway. Sorghum silage also being harvested, limited grain harvest underway. Apple and grape harvest continued. Pastures short. Cattle gains slowed due to dry pastures. Hay being fed. Marketing generally heavy.

**CALIFORNIA:** Major upper level disturbance similar to that of winter persisted along coast, it's center moving slowly south. Much heavier than normal precipitation fell north of the Tehachapis and west of the Sierra Nevada Crest. A number of daily rains between 0.25 and 1.50 in. North coast and northern mountains greatest followed by central coast and Sacramento Valley. Temperatures considerably below normal; as much as 10°. Only central and south coasts temperature near normal.

Cool weather slowed crop development. Cotton boll set excellent. Safflower harvest continues. Dry bean cutting started. Haying at standstill some areas. Some mite damage corn and milo. Harvesting safflower and sugarbeets active. Rains last weekend caused damage to peaches, prunes, but improved apple, avocado prospects. Heavy peach drop all areas, heavy brown rot damage. Rain caused prune splitting. Apple harvest begun most areas. Vegetables subnormal development; wet, cracking and molding. Rains slowed harvesting of processing tomatoes, and other sensitive crops. Showers gave relief to pasture land many areas, relieved fire danger for few weeks. Cattlemen fear rain will sprout seeds and sprouts will die if rain not received before winter.

**COLORADO:** Scattered showers and thundershowers nearly every afternoon. Temperatures near normal mountains and west, 4° above normal eastern plains.

Spring barley harvest continued, 65% complete. Oats condition good. Sorghums 70% headed, 59% year ago; condition good, dryland needs moisture. Corn condition very good, 95% silked, 95% year ago. Potatoes very good condition, summer crop harvest active. Dry bean condition good, 94% flowered, 89% 1975; harvest just starting. Sugarbeet condition very good. Alfalfa 2d and 3rd cutting, 80%, 20%.

**FLORIDA:** Tropical depression moved along east coast midweek and cold front pushed into central area. Temperatures near normal. Rainfall light north, but heavy south.

Soil moisture mostly adequate. Some wet areas along east coast and south. Corn harvest active. Tobacco harvest practically complete. Peanut harvest increasing. Hay harvest continues. Soybean and sugarcane good to excellent condition. Cattle, calves good condition in practically all areas. Pastures making good growth as rainy season continues. Forage conditions good to very good. Plantings of tomatoes, peppers, eggplant, sweet corn, celery actively underway southern areas. Early acreage making good progress. Land preparation very active. Citrus grove condition excellent. Moisture adequate to surplus. New crop fruit progressing well.

**GEORGIA:** Temperatures 2 to 4° below normal. Greatest departures extended from southeast to north central. Precipitation varied greatly with greatest amounts along Athens-Macon line and in extreme southeast. Amounts ranged from 1.27 in. to 2.15 in. Many areas received only a trace or no precipitation.

Soil moisture extremely variable, short to adequate. Showers brought moisture to some areas. Fieldwork: 5.0 days suitable. Cotton fair to good, slightly improved, 2% open. Peanuts fair to good. Harvesting begun with 2% dug and 1%

threshed, same as last year, average 3% dug and 2% threshed. Insect control active on soybeans; condition fair to mostly good. Corn condition fair to mostly good, early harvest active south; 13% harvested, 5% last year. Tobacco harvest in final stage, marketing active. Apple condition fair to mostly good, 49% harvested. Haying active, condition fair to good. Pasture condition fair to good. Cattle and hogs good.

**HAWAII:** Weather favorable. Some moderate to heavy showers Kauai added soil moisture.

Farm activity limited to harvesting for few days. Rainfall other islands light and scattered. Irrigation and spraying frequent. Vegetable supplies adequate. Banana harvesting steady. Papaya supplies light to moderate. Pineapple harvesting declining. Sugar harvesting steady. Good rains beneficial to Kauai pastures.

**IDAHO:** Temperatures 4 to 13° below normal. Precipitation general ranging from 0.04 to 1.94 in.

Showers delayed harvest. Rain damaged pea, lentil in north. Stopped harvest of grain, onion, hay. Dry weather needed. Range good to excellent. Livestock good condition.

**ILLINOIS:** Temperatures 1° above normal extreme northwest to 3° below normal elsewhere. Precipitation light; many areas no rain. Extreme: northwest 0.25 in.

Corn 5% excellent, 58% good, 32% fair, 5% poor; 84% in dough, 98% 1975, 78% average; 47% reached dent, 70% 1975, 41% average. Soybeans 6% excellent, 59% good, 33% fair, 2% poor; 94% set pods, 100% 1975, 77% average; 10% turning yellow, 22% 1975, 8% average. Winter wheat acreage 62% plowed, 56% 1975, 57% average. Third crop alfalfa hay 55% good, 40% fair, 5% poor; 45% cut, 41% 1975, 36% average. Pastures 32% good, 44% fair, 24% poor. Soil moisture 63% short, 37% adequate. Fieldwork: 6.25 days suitable.

**INDIANA:** Rainless week. Previous 4 weeks near normal or higher in most areas. Temperatures 2° below normal. Average daily highs 83°, average daily lows 56°, and ranged from 42 to 90°. Sunshine 90% of possible.

Fieldwork: 6 days suitable. Topsoil and subsoil moisture short to mostly adequate. Corn 75% in or past dough, 1975 75%. Corn 20% dented, 1975 30%. Soybeans 5% turning yellow. Soybeans 85% setting pods, 1975 85%. Wheat land 35% plowed, 1975 35%, average 40%. Pastures fair.

**IOWA:** Hot and dry. Scattered light showers 16th to 17th. Some widely scattered showers, no widespread help. Local heavy hail north central, central.

Crops deteriorating west central, northern third. Fieldwork: 6.2 days suitable. Little plowing due to dryness. Corn suffering badly west central, northern third. Firing common, some barren stalks, poorly filled ears. Corn southeast, south central good to excellent. Corn condition 14% excellent, 40% good, 27% fair, 19% poor. Silage cutting common in dry areas. Corn in or past dough stage 76%, 78% 1975, 69% average. Corn dented 38%, 41% 1975, 38% average. Maturity slowed by dryness. Soybean condition poor to fair northwest, good to excellent southeast. Soybean condition 9% excellent, 50% good, 31% fair, 10% poor. Soybeans need rain to fill pods. Leaves turning 12%, 6% 1975, 7% average. Third cutting alfalfa 46% harvested, 24% 1975, 32% average. Second cutting clover hay 80% harvested, 75% 1975, 72% average. Topsoil

moisture short, to adequate. Subsoil moisture short, to adequate. Supplemental livestock feeding common dry areas. Pastures improved southeast, south central. Livestock good condition.

**KANSAS:** Dry, hot weather. Significant moisture confined to southeast with average 0.93 in. Temperatures averaged 78° or slightly below normal southeast to 80 to 83° elsewhere from 3 to 8° above normal.

Topsoil and subsoil moisture short. Corn dough 70%, 80% last year and average; denting 30%, 45% last year, 40% average; mature 10%, 15% last year and average. Sorghum heading 65%, same as average, 70% last year; coloring 10%, 20% last year, 15% average. Soybeans podding 60%, 75% last year and average. Alfalfa third cutting 80% complete, 65% last year, 70% average.

**KENTUCKY:** No precipitation since isolated thundershowers early 16th. Temperatures 4° below normal.

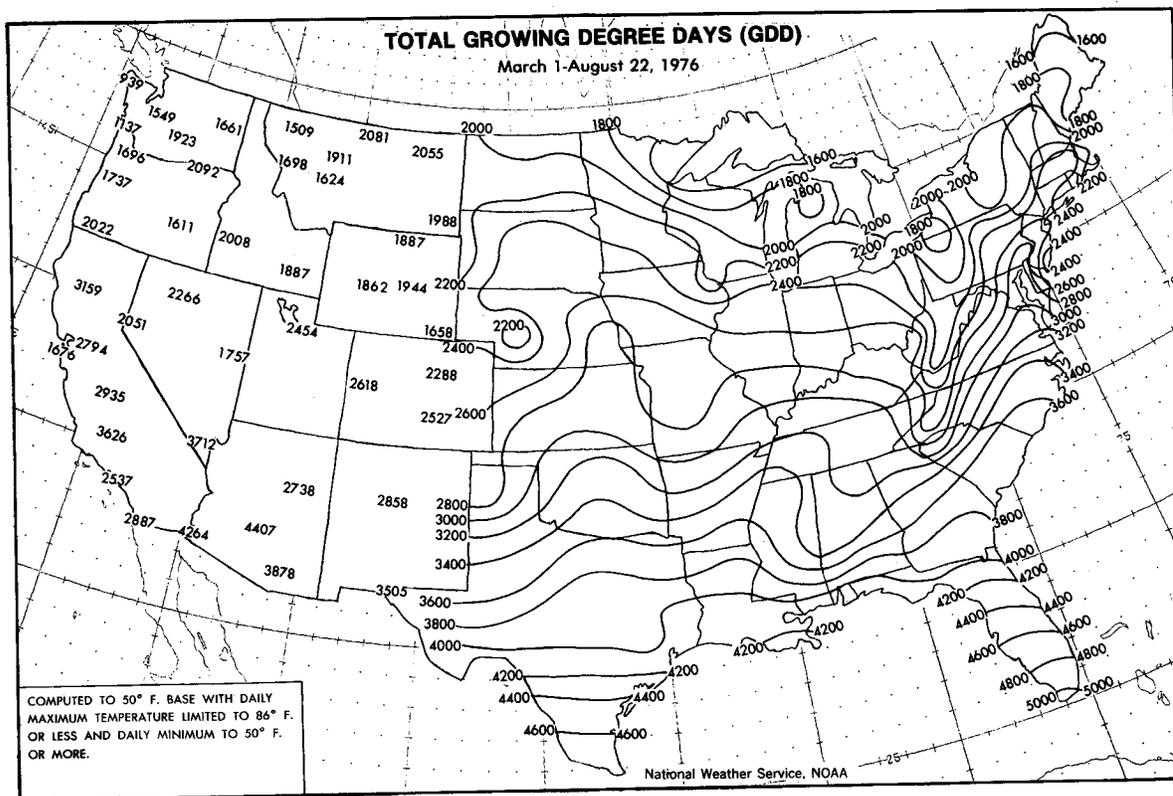
Soil moisture adequate to short despite lack of rainfall. Fieldwork: 5.5 days favorable. Corn advancing rapidly, 39% dented but not mature, 44% in dough, remainder in milk or earlier. Yield prospects continue excellent for both grain and silage. Soybeans over half podded. Burley tobacco in fair condition, ripening fast, 83% topped, 14% already cut. Cutting speeding up under favorable conditions. Plowing for fall seeding getting underway.

**LOUISIANA:** Temperatures slightly below normal. Extremes: 99 and 60°. Precipitation totals light. Soil moisture short. Cotton mostly good; shedding fruit continued; rain needed. Rice good; 69% ripe, 45% harvested, 47% year ago, average 41%. Soybeans 93% blooming or past, 72% setting pods; dry weather reducing pod set. Corn good; 87% mature, 17% harvested, 19% year ago. Sorghum 95% headed, 48% turning color. Sugar-cane good; borer activity light. Sweetpotatoes 12% harvested, 24% last year. Pastures fair to good.

**MARYLAND AND DELAWARE:** Temperatures 4° below normal. Extremes: low 90's, upper 40's. Precipitation on weekend as thunderstorms. Amounts 0.50 in., with up to 1.75 in. in Southern Maryland.

Corn 75% dough stage, 35% dent stage; 62%, 33% 1975; 64%, 28% average. Soybeans 85% bloomed, 55% podded: 70%, 50% 1975; 76%, 45% average. Tobacco 30% harvested, equal to last year but ahead of 27% average. Much good quality hay made. Third cutting alfalfa 90%. Second cutting other hay 90%. Vegetable harvest in full swing. Apple and peach harvest active. Peaches nearing completion.

**MICHIGAN:** Temperatures ranged from 100° in south to 30° in extreme north. No precipitation. Soil moisture: Very short in most areas, short to adequate in Saginaw Bay Area. Corn 50% dough, 40% normal, 45% 1975, 10% dent. Oat harvest 90% complete, 70% normal, 85% 1975. Dry beans 80% setting pods. Soybeans 70% setting pods, 80% normal, 75% 1975. Summer potato digging 20%, 15% normal, 25% 1975. Second crop hay 80%, 70% normal, 80% 1975. Third cutting started. Pasture feed supplies short to adequate. Summer apples 40%, peaches 50%, pear and plum harvest started. Cabbage 40%, sweet corn 45%, onions 5%.



**MINNESOTA:** Temperatures 4° above normal south-east to 12° above normal northwest. Extremes: 106 and 33°. Precipitation very light averaging 0.15 in. or 0.55 in. below normal. Growing season departures in major agricultural areas 6.00 in. below normal east to 9.00 in. below west.

Row crops continued under severe stress by hot temperatures, lack of moisture. Many corn ears, soybean pods not filling completely. Corn, soybean condition varies widely, depending on soil type, moisture, varieties. Corn in west central, southwest dry enough to cut for silage. Small grain harvest continues in northern areas. Corn 76% in dough, 1975 65%, normal 48%; denting 26%, 1975 17%, normal 7%. Soybeans 91% setting pods, 1975 95%, normal 94%; turning yellow 11%, 1975 11%, normal 9%. Combined: Spring wheat 80%, 1975 60%, normal 52%; oats 94%, 1975 87%, normal 75%; barley 91%, 1975 83%, normal 73%; flax 43%, 1975 31%, normal 29%. Sweet corn; 45% harvested, 1975 33%.

**MISSISSIPPI:** Temperatures 2 to 4° below normal. Extremes: 54 and 101°.

Soil moisture very short to short. Fieldwork: 6.2 days suitable. Cotton 95% setting bolls, 94% 1975, 96% average. Soybeans 95% blooming, 80% 1975, 70% average; 54% podding, 54% 1975. Rice 67% headed, 42% 1975; 4% ripe, 6% 1975. Corn 92% dented, 56% 1975; 45% mature, 23% 1975. Sorghums 38% ripe, 27% 1975; 13% harvested, 13% 1975. Watermelons 91% harvested, 91% 1975, 84% average. Hay crops 70% harvested, 60% 1975, 66% average. Cotton in fair condition. Other crops in fair to good condition.

**MISSOURI:** Temperatures normal in the northwest prairie and west central plains, 1 to 4° below normal elsewhere. Precipitation 0.25 in. west central area, 0.50 in. north, 1.25 in. Ozark

region and 1.0 in. the bootheel.

Fieldwork: 5.9 days suitable. 83% soybeans blooming, 1975 95%, normal 85%. 65% soybeans setting pods. 69% corn in dough stage, 1975 93%, normal 77%. 39% corn dented, 1975 65%, normal 46%. 9% corn matured, 1975 23%. 86% cotton setting bolls. 4% cotton with bolls open. 69% third cutting alfalfa hay harvested, 1975 71%, normal 64%. 83% grain sorghum headed, 1975 88%, normal 83%. 8% grain sorghum matured, 1975 18%, normal 13%. Condition of soybeans poor to good with more than half in fair condition. Condition of corn poor to fair. Condition of cotton poor to fair with more than half in fair condition. Condition of pastures mostly poor. Soil moisture short.

**MONTANA:** Gradual warming with temperatures hot weekend. Temperatures 40 below normal west to 50 above southeast. Precipitation from scattered showers and thunderstorms most frequent west, with above normal amounts. Precipitation light elsewhere.

Grain harvest delayed intermittently by rain. Winter wheat harvest 65% complete. Wheat lodging minimal. Spring wheat 55% harvested, 35% ripe, 10% turning. Barley 45% harvested, 45% ripe, 10% turning. Second cutting alfalfa 45% finished, corn silage harvest just started. Stockwater and range feed supplies generally adequate.

**NEBRASKA:** Hot, humid weather Rainfall first portion except Panhandle where thundershowers continued through 19th.

Farmers prepared wheat ground. Topsoil moisture short. Subsoil moisture short. Irrigated corn good condition. Dryland corn poor to fair condition. All corn 70% in or beyond dough stage, 70% normal, 80% 1975. Dent stage 25%, 25% normal and 30% 1975. Sorghum and soybeans fair to

good condition. Sorghum 35% turned, 10% normal and 40% 1975. Soybean leaves 20% turned, 10% normal and 1975. Sugarbeets and dry beans doing well. Alfalfa and wild hay fair condition. Third cutting alfalfa over 50% harvested. Pasture and range feed supplies short, supplemental feeding continuing.

NEVADA: Unseasonably cool temperatures generally 5 to 7° below normal. Extremes: 104 and 30°. Precipitation above normal except extreme south.

Small grain harvest well along north. Second crop alfalfa hay nearing completion northern valleys. Fifth cuttings alfalfa underway extreme south.

NEW ENGLAND: Cool with insignificant precipitation followed on 21st by temperatures 5 to 10° above normal and 10 to 15° above on 22d.

Much field activity. About 4,000 acres potatoes damaged in Aroostook County, Maine by heavy rain associated with Hurricane Belle. Some scattered harvesting of early potatoes commencing in Aroostook County. Pastures look good except for local water damage. Second cutting hay 50% complete south, 40% north. Early varieties of apples harvested. Cranberries look good. Summer vegetable harvest in full swing.

NEW JERSEY: Cool, dry temperatures 2 to 3° below normal. Extremes: 96 and 42°. No rainfall. Soil moisture, in percent of field capacity averaged: 71% north, 60% central and 60% south. Soil temperature averaged: 75°.

Soil moisture becoming short in light soils. Summer vegetable harvest continues to decline. Peach harvest heavy. Fall variety apple harvest beginning. Corn silage harvest begun. Hay making active. Field corn and soybeans growing nicely.

NEW MEXICO: Considerable shower activity through midweek, with drying tendency central and east last of week. Totals near 1 in. northern mountains. Temperatures within 1 to 3° of normal all areas.

Topsoil and subsoil moisture short. Cotton good, 95% setting of bolls, 5% open bolls in southeastern corner. Alfalfa fair to good, third cutting 90% complete in south, fourth cutting 45% complete. Irrigated grain sorghum good, 85% heading. Dryland grain sorghum fair to good, 45% heading. Fall seeding of irrigated wheat underway. Corn good, 85% in dough stage. Apples, chili, onions, pinto beans good. Cattle, ranges fair to good. Sheep good.

NEW YORK: Temperatures near normal. Extremes: 93 and 32°. Rainfall limited to about 0.50 in. Adirondacks. St. Lawrence Valley and far west have below normal 3 week moisture accumulation. All other areas above normal.

Second cutting alfalfa hay 70% complete, third cutting 15%. Regrowth good. Oat harvest 50% done, 80% year ago. Early corn milk to dent stage. Potato harvest increasing. Long Island potatoes and vegetable sustained considerable damage from high winds and salt spray of Hurricane Belle. Salt completely defoliated many fields several days after storm. Lettuce quality good. Tomatoes ripening with warmer temperatures and sunshine. Apples developing well, ahead of normal. Peach and pear harvest increasing.

NORTH CAROLINA: Temperatures below normal, precipitation near normal.

Fieldwork: 5.6 days suitable. Soil moisture very short to adequate, but mostly short. Major crops improved slightly. Flue-cured tobacco fair to good; 76% harvested, 64% 1975, 66% average. Corn fair to good. Soybeans fair to good. Peanuts good. Cotton fair to good. Hay fair; 78% harvested, 72% 1975, 70% average. Pasture poor to fair. Sweetpotatoes fair to good, 8% harvested, 7% 1975. Apples fair to good. Harvesting progress slow because crop not yet ripe.

NORTH DAKOTA: Temperatures ranged from 8 to 14° above normal. Extremes: 107 to 46°. Precipitation 0.20 in. above normal north central, remainder below normal. Weekend most areas hot and dry.

Extreme heat damaged row crops and hastened small grains to maturity. Spring wheat 70% combined, 50% durum, 90% barley and oats 85%. Normal for this date 40% spring wheat, 22% durum, 62% barley and oats 57%. Pasture conditions continue to deteriorate.

OHIO: Below normal temperatures. Extremes: 88 and 44°. Very little precipitation.

Harvest completion: Potatoes 20%; corn silage 10%, 5% 1975 and 5% normal; alfalfa hay 3d cutting 35%, 30% 1975 and 20% normal. Corn 40% dented, 40% 1975 and 30% normal. Corn 10% mature, 5% 1975. Soybeans 65% pods set, 70% 1975 and 55% normal. Soybeans 10% leaves turning yellow, 5% 1975 and 5% normal. Tobacco 50% topped, 50% 1975 and 50% normal. Fall plowing for winter wheat 4%, 30% 1975 and 35% normal. Soil moisture adequate. Fieldwork: Over 5.0 days suitable.

OKLAHOMA: Temperatures from 2° below normal to 1° above normal. Precipitation mostly light ranging from none south central to 0.53 in. north-east. Weekend hot with few showers north central and central.

Topsoil moisture short. Crops losing condition but would make good recovery with timely rains. Wheat ground 33% prepared, nearly same year ago and average. Panhandle ensiling corn. Crop fair to good condition, most eastern acreage dough or past. Sorghums late, with small acreage mature compared 10% average. Armyworm infestations heavy northeast. Cotton well advanced, 81% setting bolls, compared 69% year ago, 73% average. Dryland acres need rain. Peanuts mostly good and ahead year ago and average. Soybeans late with 33% now setting pods. Light 4th cutting alfalfa being taken. Alfalfa seed harvest underway with some good yields. Pecan outlook poor. Ranges and cattle condition dropping rapidly as grasses dry.

OREGON: Temperatures on coast near normal, a few degrees below normal in west, and mostly 5 to 10° below normal in east. Extremes: High 80's, low 40's west; high 80's, low 30's east. Precipitation in west 1.00 in. or more with largest amounts along the coast. Inland, about 1.00 to 1.50 in. fell.

Grain harvest delayed by cool, wet weather. Some sprouting occurred. Much hay in windrow and bale rain damaged. Bentgrass and late varieties of ryegrass being harvested; that in swath rain damaged. Mint and hops being harvested. Bartlett harvest started. Peaches being harvested; some brown rot showing up. Walnuts and filberts in good condition. Early sweet corn just beginning. Snap bean harvest progressing well. Onions and potatoes in good condition. Livestock in good flesh. Range and pasture in good condition.

PENNSYLVANIA: Cool, sunny and dry. Low humidity and below normal temperatures with nearly maximum sunshine through 20th. Considerably more humid and hot over weekend. Temperatures 4° below normal. Extremes: 40 and 95°. No rain.

Favorable for fieldwork. Soil moisture adequate to surplus. Activities: Combining oats, hay-making, tobacco cutting, harvest of potatoes, snap beans, cabbage, tomatoes, sweet corn, apples, and peaches. Also fall plowing. Oats 89% harvested, 91% last year. Tobacco harvest 23% complete, 5% last year. Potatoes, limited blight, 16% harvested, 19% last year. Set and tuber size good. Corn for grain, 8% pre-silk, 35% silk, 50% in dough stage, 7% dented. Fall plowing 23% done, 17% last year. Soybeans made rapid growth, beans developing. Alfalfa second cut 81%, equal to 1975, third cut 42%, 32% in 1975, fourth cut 32%, 8% last year. Clo-tim second cut 70%, 61% in 1975. Quality of hay fair to good. Feed from pastures above average. Peach harvest at peak, some splitting. Apple harvest accelerating, size good. Tomato ripening slow, some splitting. Harvest high quality sweet corn on downswing. Cabbage cutting underway. All crops in excellent condition.

PUERTO RICO: Island rainfall 0.72 in. or 0.99 in. below normal. Temperatures averaged about 81° on coasts and 76° interior. Extremes: 93 and 57°.

Dry weather favored cultivation sugarcane ratoons but affected their development. Coffee beans remain small and some are falling to ground due drought. Farmers preparing soil for tobacco seedbeds. Planting, cultivating and fertilizing pastures underway. Dry conditions seriously affecting pasture lands south coastal and central areas. Rains needed badly. Planting and cultivating food crops main activities although in south coastal and central portions they are affected due lack of rain. Poor harvest expected if drought continues.

SOUTH CAROLINA: Temperatures near normal mountains, below elsewhere. Temperatures ranged from 90's beginning to 70's 20th, 21st. Extremes: 97 and 56°. Widely scattered afternoon thundershowers first half, more general rains later as tropical storm Dottie moved northward into east. Amounts varied from 0.50 in. below normal in north central areas to 0.50 in. above normal in south.

Producers continue to apply insecticides to cotton, soybeans. Harvest of tobacco virtually complete. Harvest of corn, apples, grapes, peanuts, fall hays continues. Corn earworm, armyworm infestations high in sorghum, coastal bermuda fields. Crop conditions: Fair - cotton, grain sorghum, pastures, hay crops; fair to good - soybeans; good - corn. Corn matured: 71% 1976; 65% 1975; 58% average. Corn harvested: 18% 1976. Soybeans blooming: 74% 1976; 72% 1975; 74% average. Soybeans setting pods: 46% 1976; 51% 1975; 44% average. Tobacco harvested: 97% 1976; 92% 1975, 92% average.

SOUTH DAKOTA: Extremely hot and dry. Afternoon highs into 100's. Temperatures 4 to 14° above average. Extremes: 110 and 46°. Showers scattered, 1.00 in. rain, southeast.

Crops deteriorating from drought. Many corn fields pastured or green chopped, silage operations underway in others. Corn 57% in dough stage, 1975 63%, normal 59%. Soybean growth also retarded. Soybeans 95% podded, 1975 100%, normal 97%. Sorghum nearly dormant, 64% headed, 1975 82%, normal 84%. Flax harvest well ahead of normal, 83% combined, 1975 55%, normal 56%. Fall plowing under-

way, 24% complete, 1975 20%, normal 20%. High nitrate levels in corn has hindered the grazing of corn. Cattle and calves still going to market because of feed shortages.

TENNESSEE: Cold front early, dry remainder with little or no rain. Temperatures warm daytime and cool at night, averaging 2° below normal.

Crops suffering from dry weather. Many areas need moisture for continued crop growth and development. Armyworm infestation increasing. Fieldwork: 5.6 days suitable. Main activities were haying, tobacco, snap bean, and pimento pepper harvesting, fall plowing, insect spraying and silage cutting. Pastures short. Soil moisture short. Corn in good condition. Corn 90% dough, 85% last year, 90% average. Corn 50% dented, 55% last year and average. Corn 10% mature, 10% last year, 15% average. Cotton 85% setting bolls, 97% last year, 93% average. Soybeans 90% blooming same as last year and average. Soybeans 45% setting pods, 50% last year and average. Burley tobacco 45% harvested, 20% last year and average. Fall plowing 23% completed, 23% last year, 33% average.

TEXAS: Hot, dry. Temperatures from 2° above normal west to 4 to 7° above normal east, south. Normals range from upper 70's northwest to mid-80's south. Rainfall averaged 2.45 in. south central, 0.50 in. along coastal plains. Elsewhere less than 0.33. Normal rainfall 0.50 in. except in Panhandle, south central where normal is 0.25 in.

Rain needed to insure full crop development. Cotton: Harvesting continues south, central 4% 1976, 6% 1975, 4% average. Boll weevils increasing on Edwards Plateau, Blacklands. Cotton on Low Plains dropping squares due to dry. Sorghum: Fields good, most fields need moisture. Heading widespread on northern High Plains. Harvesting 47% complete, 53% 1975, 47% average. Corn: In excellent condition, rain needed most nonirrigated areas. Harvesting now 19% compared with 18% in 1975, 20% average. Peanuts: Need rain. Harvesting 8% 1976, 8% 1975, 15% average. Rice: Harvest progressing rapidly, now 88% complete, 75% 1975 and 64% average.

Harvest peas, tomatoes, onions, cabbage, peppers, watermelons, okra, cantaloup and sweet potato continues. Pecans need rain for normal development. Dry conditions delaying growth of fall vegetables. Land preparation and planting fall vegetables active.

Continued hot caused pastures in all parts to dry rapidly; poor to average. Cattle remain good. Ticks, screwworms again major concern central, south.

UTAH: Widely scattered shower and thunderstorm activity throughout period. Accumulated moisture generally light to moderate. Few areas heavy shower activity northern portion over weekend. Average temperatures for period ranged from near normal east to 10° below normal northwest.

Small grain harvest continues; winter wheat 80% harvested, spring wheat 70%, barley 70%, oats 40%. Silage corn, grain corn, potatoes, sugarbeets all fair to good prospects. Dry onions appear good to excellent. Second cutting hay over 95% completed, some third cutting just underway. Range feed in use quite dry, fall feed prospects varied poor to good, mostly poor to fair.

VIRGINIA: Temperatures 3° below normal. Extremes: 94 and 45°. Rainfall mostly thundershowers averaging about 0.75 in.

Fieldwork: 5.7 days suitable. Topsoil moisture 7% short. All crops need rain. Corn 75% of normal. Corn silage harvest advanced, grain harvest just started. Soybean condition held steady. Spraying and cultivating late beans. Peanut condition declined. Fungicides and insecticides applied. Tobacco harvest progress: Flue-cured 33%, 1975 39%; fire-cured 26%, 1975 19%; burley 16%, 1975 7%; sun-cured 11%, 1975 11%. Flue-cured marketing active. Hay and pasture condition poor most areas. Supplemental feeding of hay and green chop. Peach harvest final stages. Tomato harvest winding down. Melon and cabbage harvest progressed. Preparations for fall harvest and small grain seeding.

WASHINGTON: West: Temperatures 2 to 3° below normal. Precipitation 1.00 in. to 1.30 in. above normal.

Rain stopped hay, grain and pea harvest, caused some blight in potatoes. Cucumber, blueberry, cauliflower and green peas active. Pastures excellent.

East: Temperatures 5 to 8° below normal. Precipitation 0.10 to 0.70 in. above normal.

Wet weather slowed grain harvest, 2 weeks behind normal. Wheat test weight and quality above average, sprout damage possibility. Spring wheat prospects excellent. Bluegrass seed complete, above average. Moisture for fall seeding above average. Apples color well, some small. Bartlett accelerated, quality fair to good. Peach, nectarine, early sweet corn, potatoes, and mint underway; hops soon.

WEST VIRGINIA: Temperatures 3° below normal. Precipitation well below normal. Highs mostly 80's, lows mostly low 50's.

Fieldwork: 5.0 days suitable. Soil moisture short to adequate. Oats harvested 92%, 1975 89%, average 88%; condition fair. Hay 2d cutting 56% complete, 1975 55%, average 50%; condition fair

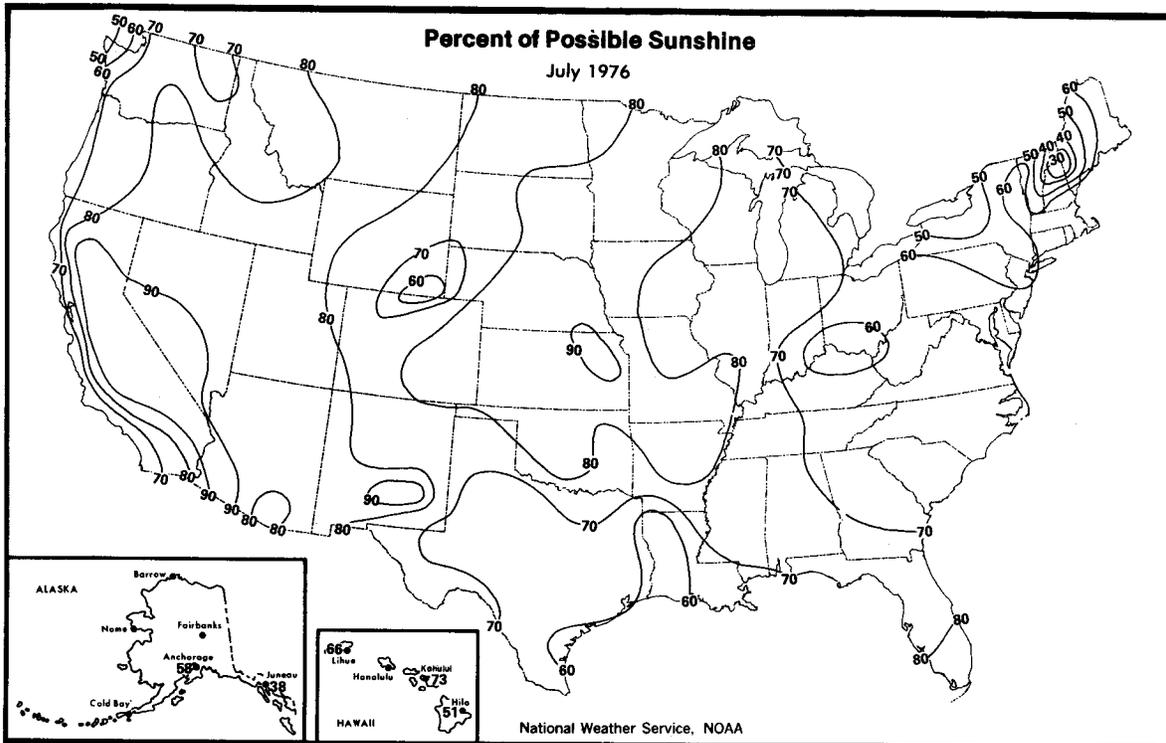
to good. Tobacco mostly fair, topping half completed, harvesting started. Potato digging 35%, 1975 33%, average 26%; condition fair to good. Corn condition fair to good. Soil moisture shortages continue severe in east.

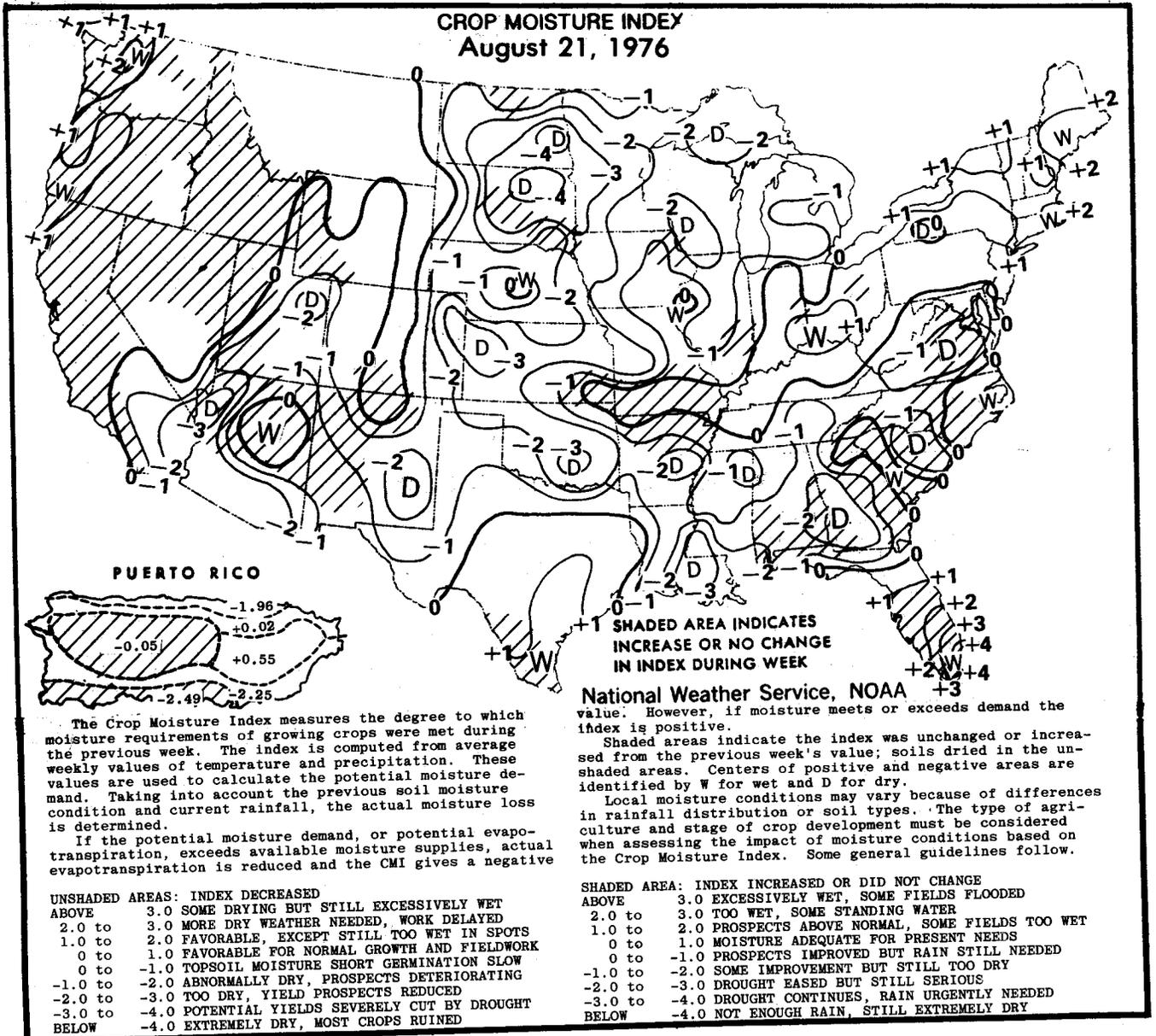
WISCONSIN: Temperatures 3° above normal. Cool beginning with frost extreme north 16th. High's in 90's weekend. No rain most areas except light amounts northwest and west central.

Crops need rain. Soil moisture short. Hot weather helpful for corn maturity but progress behind last year. Corn 40% in dough, 1975 50%, normal 35%. Considerable variation in corn, some good and others with poor pollination. Early corn denting, late corn needs long fall to mature for grain. Frost affected corn in extreme north. Oats 90% harvested, 1975 80%, normal 70%. Yields of oats poor north, variable other areas. Straw short. Second crop haying mostly completed, a few started cutting third crop whose growth generally better than second crop. New seedings need moisture. Pastures remain in poor condition. Soybeans could use rain to fill pods. Early tobacco being harvested. Sweet corn harvest continues, with yields reduced by dry weather. Harvesting of early potatoes and apples also continuing. Cranberry crop looks good but water reserves low.

WYOMING: Temperatures slightly below normal western half and slightly above normal east. Precipitation below normal almost without exception.

Soil moisture short to adequate. Winter wheat 93% harvested with 3% of 1977 acreage planted. Spring wheat 59% harvested. Oats 60% harvested. Barley 68% harvested. Alfalfa second cutting 52% complete, 2% into third cutting. Other hay 80% harvested. Dry beans 94% in pods with 20% of leaves turning color. Range and pastures in fair to good condition.







# FIRST CLASS MAIL

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## World Weather and Crop Update

Although harassed by continuing showers from the Volga westward, the small grain harvest advanced in all areas of the USSR. Caterpillar tractors pulled combines in some of the rain-soaked fields. Grain flattened by the wet weather added to harvest difficulty and slowed forage harvest. Combined cool, wet weather of this growing season delayed maturity of other crops as well as the start of fall seeding beyond optimum dates in northern latitudes.

Harvest started in the virgin lands of Kazakhstan and West Siberia under more favorable weather.

While the weather trough and rains persisted in European USSR, high pressure and fair weather lingered in Western Europe. Drought intensified in the west and slowed growth of forage and catch crops planted in hope of salvaging something this summer. Sugarbeets, late potatoes, sunflowers, vegetables, and most other crops suffered further abuse from lack of moisture. Feed shortages threaten heavy livestock slaughter. The Netherlands, because of much low lying-subirrigated

land, fared better than most of its neighbors. For example, the Agriculture Ministry in France declared some French departments disaster areas.

Since eastern Europe oscillated between these moisture extremes crop conditions ranged from excellent, to good, to poor. Prospects tended poorer in the north but fared better in the south.

Hot, dry weather hastened maturity of crops in North American grain belts and accelerated harvest of Canadian small grains.

India's shower activity increased considerably in mid-August. Rainfall from June 1 to August 18 accumulated normal or above amounts in weather zones that accounted for 91 percent of summer crop production (1970-71 base), the same figure for the period in 1975. However, rains fell more timely last year.

Drought stretched another week in Sri Lanka, Australia, and Java in Indonesia. Dry weather favored wheat harvest in South America's equatorial region and combining started in the warmer areas of Brazil. Very little rain fell in Argentina last week.