

WEEKLY WEATHER AND CROP BULLETIN

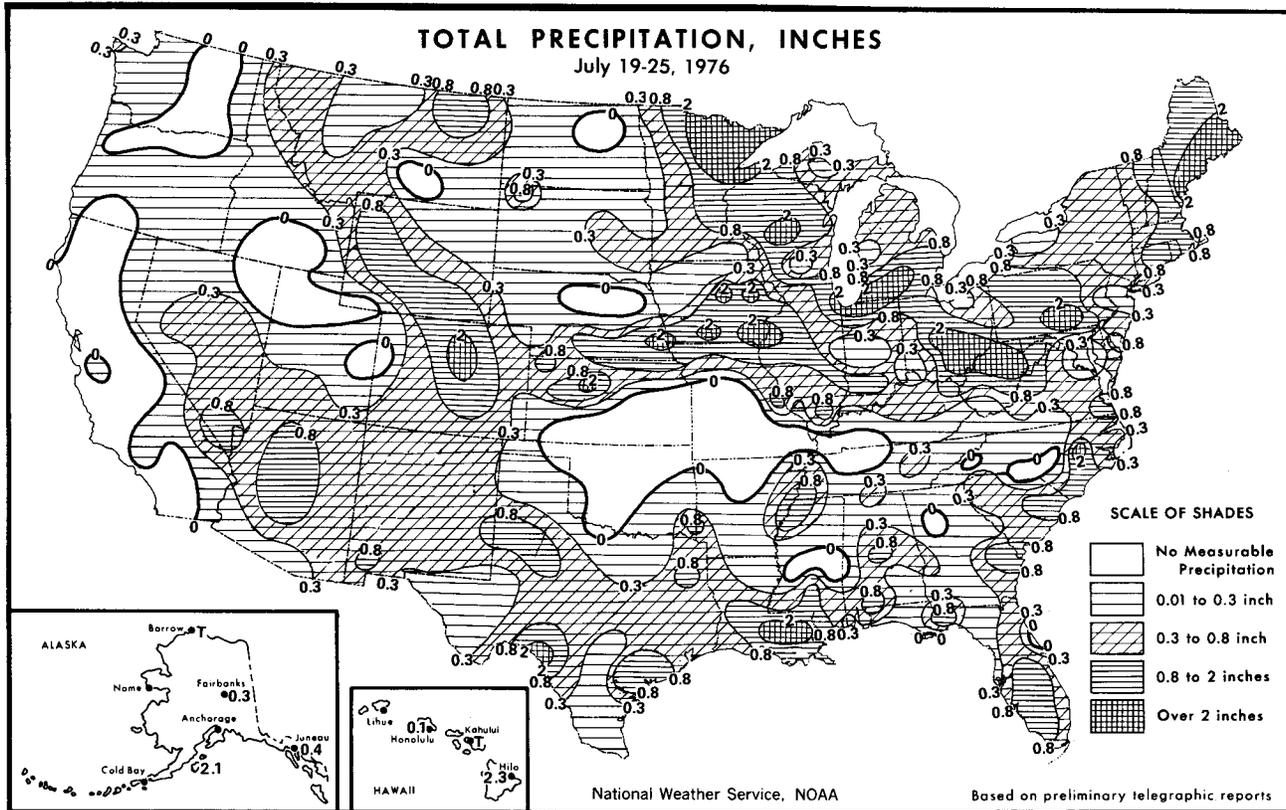
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National Weather Summary

For the week of July 19 - 25

HIGHLIGHTS: Thunderstorms ravaged the Nation during the week and unleashed rains, hail, and high winds over the land. Rain inundated parts of Indiana, Iowa, Pennsylvania, and Texas and resulted in extensive flooding. Wisconsin and Minnesota received appreciable amounts of rain which helped curb the dry spell in that area. Above normal readings broke or matched previous record highs in North Carolina and the Dakotas, while a high pressure center produced record low temperatures in New Hampshire and Pennsylvania.

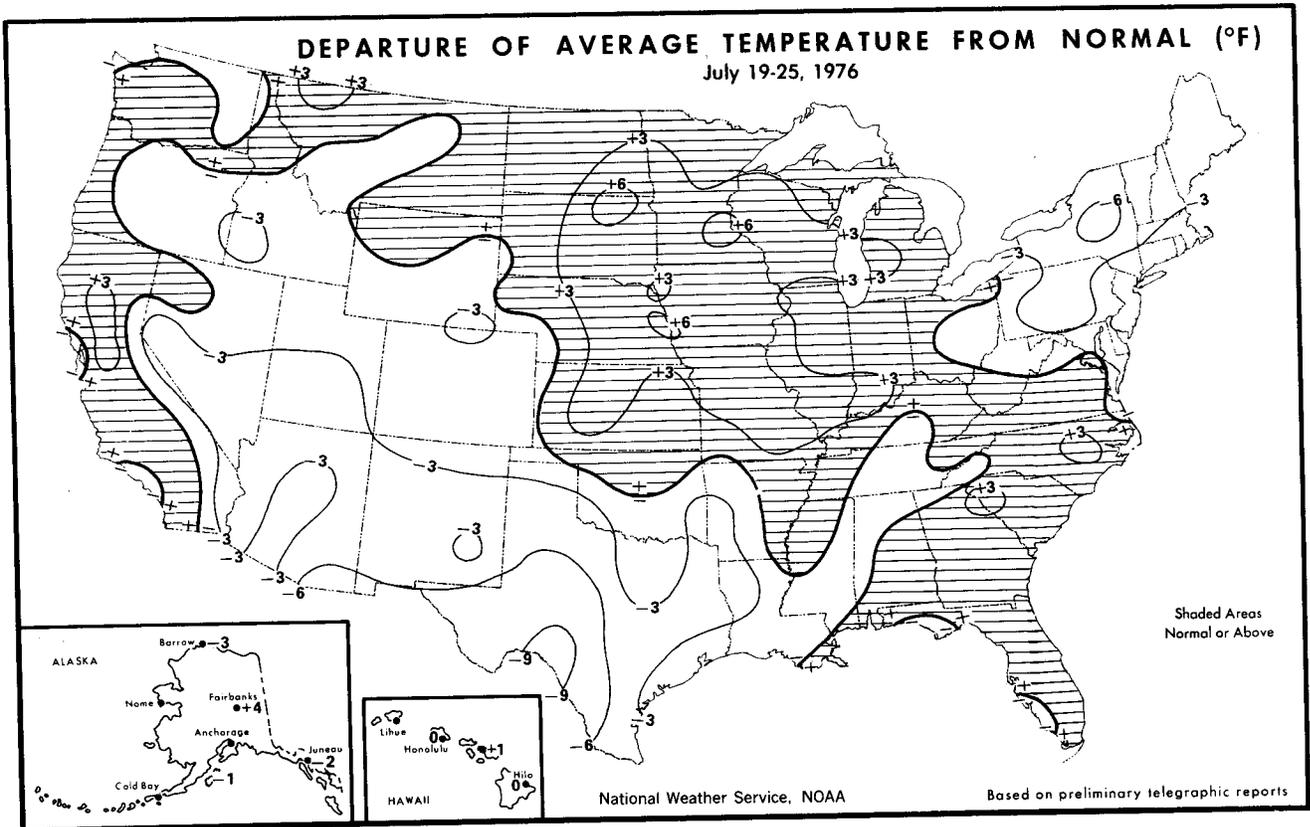
Early Monday morning temperatures dropped below normal in the lower Mississippi Valley and the central Gulf Coast, but the mercury climbed to a high of 102° in Huron, S. Dak.

Showers and thundershowers descended on an area from the upper Mississippi Valley to the central

Plains, along the southern Atlantic Coast, and into the northern Rockies and southern Plateau region. Generally, clear skies lingered over the interior of California, the Pacific Northwest, and much of Nevada.

As the day evolved, a Canadian cold front set off numerous, heavy thunderstorms across the northern Plains, the northern Mississippi Valley, the western Great Lakes region. Wind gusts up to 80 mph pummeled Hettinger, N. Dak.; while Miles City, Mont. and International Falls, Minn. both clocked winds of more than 60 mph. Golf-ball sized hail pelted areas north and east of Langdon, N. Dak., while 3 1/2 to 4 inches of rain deluged Wallhalla, N. Dak.

Warm, humid air and hazy skies veiled the mid-Atlantic Coast region into the central Appalachians. Southwest Pennsylvania and northern West Virginia



posted an air stagnation advisory in the afternoon. Although the heavy rains stopped in Texas, waterways persisted in overflow activity.

Thunderstorms in the western Great Plains, the Rockies, and the southern Plateau dominated the weather picture on Tuesday. Haze and some smoke shrouded most of the eastern Gulf Coast States, the southern and central Appalachians, and much of the Ohio Valley region. California, Nevada, and the central Gulf Coast States basked in sunshine, and fair skies prevailed over New England.

A high pressure system spread cool air and reduced temperatures more than 15 degrees through the northern and central Plains. Showers and thunderstorms developed along the moving edge of the cooler air. By midafternoon, a line of heavy thunderstorms stretched from southern Lake Huron across southern Michigan, into Illinois, and through Iowa, Nebraska, and Kansas. Roca, Neb. accumulated over 1/2 inch of rain in just 30 minutes.

Showers and thunderstorms moved from New England to the central Plains early Wednesday. Thunderstorms unleashed heavy rains over northern Indiana to northwest Pennsylvania. South Bend, Ind. measured 1 1/2 inches in 1 hour. Many streets closed because of flood activity. Minor flooding existed in northwest Pennsylvania throughout the day.

Rain besieged central Iowa and Texas. Des Moines, Iowa amassed around 5 1/2 inches of rain in 4 hours.

Thunderstorms with heavy rains lingered over the Nation's middle States on Thursday. Extreme southern California, Washington, and western North Dakota also experienced showers and thundershowers. Cooler, less humid air pushed through the Dakotas

in the afternoon, while hot, humid air masked the central Gulf Coast States.

Ralston, Iowa reported 5.7 inches of rain in a 2-hour period. Rain-drenched Texas collected about 2 1/2 inches. Winds buffeted Columbus, Neb. with 75 mph gusts, while marble-sized hail pelted the community.

Scattered thundershowers covered most of the Great Lakes area, upper Ohio Valley, northern and southern Atlantic Coastal States, and the Gulf Coast into southern New Mexico. Hot and humid described the weather picture over most of the Nation on Friday. As the day passed, thunderstorms increased in the Ohio Valley.

Although thunderstorms diminished in the Northeast over the weekend, a cold front triggered heavy rain in parts of Maine and New Hampshire.

Mercuries on Saturday shot well above the 90 degree mark and set record highs of 100° in Raleigh, N. Carolina; 105° in Bismark, N. Dak.; 108° in Miles City, Mont.; and Red Bluff, Calif. carried the Nation's high at 109°. Late in the afternoon, intense thunderstorm activity hit Kingman, Ariz. with winds estimated at 80 mph and heavy rain.

Sunday found limited precipitation across the Nation, and temperatures plunged to a record low of 64° in Midland, Tex. and Lake Charles, La. Thunderstorms dotted the West. Two inches of hail blanketed the ground near Richfield, Utah; while heavy rains overflowed waterways in the Panguith and Cove Fort areas of Utah.

A high pressure center delivered cooler air to the Northeast, and temperatures plummeted to record lows of 44° in Concord, N. Hamp.; and 52° in Erie, Pa.

National Agricultural Summary

For the Week of July 19-25

HIGHLIGHTS: The Nation's corn crop remained in generally good condition. Some major corn and soybean producing States reported potential yield reductions because of a moisture shortage. Condition of soybeans ranged from poor to excellent depending on moisture supplies. U.S. cotton progressed satisfactorily and was in fair to good shape. Most States reported topsoil moisture conditions from short or mostly short to adequate. Poor pasture condition required increased supplemental livestock feeding. Some cattlemen decided to sell rather than feed their livestock.

SMALL GRAINS: The U. S. winter wheat harvest, at 90% complete, compared to 87% in 1975 and 86% normal. Ohio and Indiana virtually completed harvest of winter wheat. Nebraska, with 95% combined, will finish soon if weather permits.

Montana harvest reached 4% compared with none in 1975 and a 10-year average of 1%. Illinois farmers plowed 15% of the winter wheat acreage and moved ahead of the 5% in 1975 and the 4% average.

Minnesota spring wheat was 17% harvested by the week's end, surpassing none in 1975 and 2% normal. Montana reported 5% of its spring wheat was ripe compared with none in 1975 and a normal 2%.

South Dakota harvest progressed at a rapid rate and was 63% completed, much ahead of 15% in 1975 and 22% normal.

CORN: The dry spell in Iowa, Nebraska, South Dakota, and Minnesota stressed the corn crop and caused leaves to curl and fields to fire. Continued moisture shortages may well reduce yields in these States.

Good conditions prevailed for the Alabama crop; 40% of its corn reached the dent stage, behind 45% a year ago but ahead of 28% normal. Excellent crop conditions remained in Kentucky, with 65% silking or in a more advanced stage. Texas farmers harvested some acreage in the southern, central, and eastern areas. Iowa, with less than half the crop in good condition, indicated 92% silked compared to 64% a year earlier and 62% normal. Rainfall from 5 to 7 inches below normal in west central and southwestern Minnesota led to poor yield prospects. Acreage silked hit 60% in Indiana, 75% in Ohio, and 81% in Illinois. Corn in each State lagged the maturity level of 1975, but remained well ahead of normal.

COTTON: Although the Nation's crop improved somewhat and remained in fair to good condition, cotton lagged 1975 and normal in most States. The Arkansas acreage fruited well with bolls set on 35% of its acreage compared to 83% in 1975. Alabama reported fair condition and a boll set of 20%, compared to last year's 52% and 54% normal. Texas reported that weevils increased, rains delayed harvest in southern areas, and fields in the Plains were blooming.

Western States indicated satisfactory crop progress. The New Mexico crop had 85% squares and 35% bolls. Arizona cotton farmers irrigated, cultivated, and applied insecticides.

SOYBEANS: Good conditions prevailed for most of the U.S. soybean crop. Nebraska and Missouri

indicated crops in fair to good condition, while Minnesota reported extremely dry conditions in west central and southwestern districts. Iowa rated its crop in excellent condition where moisture was available but under stress in other areas of the State. The South Central States noted good crop conditions but soybean development varied because of the long planting season. In Tennessee 30% of the crop bloomed compared to 45% in 1975 and normal. Arkansas completed planting and the early acreage was blooming. Mississippi reported 38% in bloom, well ahead of the 21% in 1975. Podding occurred on 4% of that State's crop, less than half 9% of a year ago. Alabama reported a good but late crop with 20% in bloom, compared to 48% a year ago and 36% normal.

OTHER CROPS: The Nation's sorghum crop remained late but in reasonably good condition. Harvest in Texas moved northward with crop maturity. Excessive moisture in the southern and central areas of the State slowed harvest and reduced grain quality and yields. Oklahoma's crop reached 26% headed, compared to 36% in 1975 and average. Kansas noted 5% headed, just half of 10% in both 1975 and average.

In most of the major tobacco producing States, limited topsoil moisture may affect crop prospects considerably. Harvest of North Carolina's flue-cured crop reached 23%, ahead of 1975's 18% and slightly ahead of 22% average. Virginia farmers stepped-up flue-cured harvest. Burley and dark tobacco in Kentucky deteriorated because of weather and diseases. Tennessee tobacco remained generally good with some disease problems.

FRUITS AND NUTS: Peach harvest continued with North Carolina 75% complete, well ahead of progress a year ago when 65% was picked. Maryland and New Jersey reported increasing volumes of peaches and early apples. Canning peach and apricot harvests in California lingered at a standstill because of a cannery strike. Tart cherry harvest passed its peak in New York, hit 80% in Michigan, and continued in Oregon. Sweet cherry harvest was almost completed and filberts sized well in Oregon. California small size coastal lemons sustained considerable damage because of extreme temperatures in late June.

VEGETABLES: Tomato processing started in New Jersey, but stopped in California because of labor problems. Harvest of Michigan cabbage and celery got underway. Tomato and sweet corn harvests also started. Fall land preparation continued in Texas and Florida. North Carolina sweet potatoes were listed in good condition; a few had been dug.

PASTURES AND LIVESTOCK: Pasture and hay conditions varied greatly over the Nation depending on moisture supplies. Conditions in both the North Central and western States were mostly poor to fair. Some Nebraska and Iowa areas required supplemental feeding for cattle. Heavy cattle sales occurred in South Dakota in response to feed and water shortages and poor pastures.

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., July 25, 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 . . .	81	+1	.4	-.8	La. Baton Rouge . . .	81	-1	2.5	+1.0	Youngstown	71	0	.3	-.6
Mobile	84	+2	.3	-1.7	Lake Charles	81	-2	.3	-1.2	OKLA., Okla. City . .	82	0	0	-.6
Montgomery	82	+1	.2	-1.0	New Orleans	82	0	.9	-.6	Tulsa	85	+2	0	-.7
ALASKA Anchorage . .	57	-1	.1	-.4	Shreveport	79	-5	.6	0	OREG. Astoria	62	+2	.2	+1.1
Barrow	36	-3	T	-.2	MAINE, Caribou . . .	63	-3	1.8	+ 9	Burns	69	-1	.3	+ 2.2
Fairbanks	65	+4	.3	-.1	Portland	66	-3	2.0	+1.4	Medford	73	0	T	0
Juneau	54	-2	.4	-.7	MD, Baltimore	75	-2	.1	-.8	Pendleton	76	+1	T	0
Kodiak	54	-1	2.1	+1.3	MASS, Boston	74	0	1.0	+ 4	Portland	70	+2	T	-.1
Nome	---	---	---	---	Chatham	69	-	.5	---	Salem	67	0	T	-.1
ARIZ. Flagstaff . . .	67	0	1.4	+ .8	MICH, Alpena	67	+1	.4	-.2	PA, Allentown	73	-2	.2	-.9
Phoenix	89	+3	1.0	+ .8	Detroit	74	+1	.7	0	Erie	69	0	1.7	+ .9
Tucson	80	-6	.2	-.4	Flint	73	+3	.8	+ 2	Harrisburg	73	-4	2.2	+1.4
Winslow	76	-3	.8	+ .3	Grand Rapids	76	+4	.6	-.1	Philadelphia	76	-1	.7	-.2
Yuma	91	-4	.1	0	Houghton Lake	68	+2	.3	-.4	Pittsburgh	69	-3	.6	-.3
ARK, Fort Smith . . .	80	-3	T	-.7	Lansing	73	-2	2.1	+1.5	Scranton	70	-3	.7	-.2
Little Rock	82	0	T	-.8	Marquette	67	0	.2	-.5	R.I. Providence . . .	71	-2	.9	+ 2
CALIF, Bakersfield . .	86	+1	T	0	Muskegon	73	+3	.3	-.3	S.C. Charleston . . .	82	+2	.4	-1.5
Eureka	57	+1	T	0	S. Ste. Marie	64	0	.5	-.1	Columbia	82	0	.6	-.7
Fresno	81	0	T	0	MINN, Duluth	69	+3	2.0	+1.2	Greenville	81	+3	.4	-.5
Los Angeles	72	-2	0	0	Internat'l Falls . . .	68	+2	4.2	+3.3	S.D. Aberdeen	79	+6	.2	-.4
Red Bluff	86	+3	0	0	Minneapolis	78	+6	1.2	+ 4	Huron	79	+4	.6	+ 2
San Diego	72	+2	0	0	Rochester	75	+5	.2	-.6	Rapid City	74	0	.2	-.2
San Francisco	62	-2	0	0	St. Cloud	74	+3	.5	-.2	Sioux Falls	78	+4	.7	+ 1
Stockton	80	+3	T	0	MISS, Jackson	82	0	T	-1.0	TENN, Chattanooga . .	78	-1	.2	-1.0
COLO, Denver	73	-2	2.3	+1.9	Meridian	79	-2	T	-1.2	Knoxville	79	+1	T	-1.1
Grand Junction	78	-1	.8	-.1	MO, Columbia	82	+4	0	-.8	Memphis	84	+2	1.4	+ .6
Pueblo	76	-1	.8	+ .4	Kansas City	83	+4	0	-.9	Nashville	79	-1	T	-.9
CONN, Bridgeport . . .	72	-2	.4	-.4	St. Louis	83	+4	.4	-.4	TEX, Abilene	78	-6	.8	+ .3
Hartford	73	0	1.8	+1.0	Springfield	80	+2	0	-.8	Amarillo	75	-4	.2	-.4
D.C. Washington . . .	79	0	T	-1.0	MONT, Billings	75	+2	T	-.1	Austin	81	-4	.2	-.2
FLA, Apalachicola . .	81	-1	0	-1.9	Glasgow	72	0	.8	+ 5	Beaumont	82	-1	.7	-.7
Daytona Beach	81	0	T	-1.5	Great Falls	71	+1	.3	+ 1	Brownsville	81	-4	.2	0
Ft. Myers	82	-1	1.9	0	Havre	73	+2	T	-.3	Corgus Christi	82	-3	T	-.4
Jacksonville	83	+2	.4	-1.3	Helena	68	-1	.1	0	Del Rio	78	-9	2.9	+2.7
Key West	85	0	.5	-.4	Kalispell	68	+3	.4	+ 3	El Paso	76	-6	.2	-.2
Lakeland	84	+2	1.4	-.4	Miles City	78	+2	.3	0	Fort Worth	83	-2	.1	-.3
Miami	84	+2	.3	-1.1	Missoula	69	+1	.5	+ .4	Galveston	83	0	.7	-.3
Orlando	83	+1	1.3	-.5	NEBR, Grand Island . .	81	+4	.1	-.5	Houston	81	-2	.6	-.3
Tallahassee	83	+2	1.3	-.7	Lincoln	81	+3	1.0	+ 3	Lubbock	74	-6	.9	+ 4
Tampa	83	+1	.1	-1.8	Norfolk	81	+5	T	-.6	Midland	75	-7	.2	-.2
W. Palm Beach	82	0	.5	-.9	N. Platte	76	+1	.3	-.3	San Angelo	77	-8	.6	+ 3
GA, Atlanta	80	+2	T	-1.1	Omaha	82	+6	.4	-.4	San Antonio	80	-5	T	-.4
Augusta	83	+2	0	-1.2	Valentine	79	+4	.1	+ 3	Victoria	82	-3	1.0	+ 4
Macon	84	+2	T	-1.0	NEV, Ely	86	-3	.4	+ 3	Waco	83	-3	.3	0
Savannah	82	+1	1.0	-.8	Las Vegas	87	-4	1.5	+1.4	Wichita Falls	83	-3	T	-.4
HAWAII, Hilo	75	0	2.3	0	Reno	67	-3	.2	+ 1	UTAH, Blanding	71	-3	.3	0
Honolulu	80	0	.1	0	Winnemucca	73	+1	.1	+ 0	Salt Lake City	77	-1	T	-.1
Kahului	79	+1	T	-.1	N.H. Concord	66	-4	.7	0	VT, Burlington	67	-3	.5	-.3
Lihue	---	---	---	---	N.J. Atlantic City . .	75	-1	.3	-.7	VA, Lynchburg	77	+1	.2	-.7
IDAHO, Boise	73	-3	.1	+ .1	Trenton	75	-2	.3	-.8	Norfolk	78	-1	.8	-.6
Lewiston	76	+1	.1	0	N.MEX, Albuquerque . .	74	-5	.5	+ 1	Richmond	79	+1	.7	-.6
Pocatello	72	-1	T	-.1	Roswell	77	-2	.5	+ 1	Roanoke	78	+2	.4	-.4
ILL, Cairo	83	+2	0	-.7	N.Y. Albany	69	-4	.6	-.1	WASH, Colville	---	---	---	---
Chicago	76	+1	2.5	+1.6	Binghamton	67	-3	.3	-.6	Omak	70	-1	T	-.1
Moline	78	+3	1.1	+ 1	Buffalo	69	-2	.2	-.5	Quillayute	57	-3	.3	-.2
Peoria	78	+3	1.2	+ .4	New York	77	0	.2	-.7	Seattle-Tacoma	67	+2	.1	0
Rockford	75	+2	.6	-.3	Rochester	70	-2	.1	-.6	Spokane	70	-1	.1	0
Springfield	80	+3	.7	-.1	Syracuse	66	-6	.3	-.4	Walla Walla	76	-1	0	0
IND, Evansville	81	+3	T	-.8	N.C. Asheville	73	-1	T	-1.1	Yakima	72	0	0	0
Ft. Wayne	75	+2	.7	-.2	Charlotte	80	+1	0	-1.1	W. Va. Beckley	72	+2	.1	-.9
Indianapolis	77	+2	.1	-.7	Greensboro	79	+1	T	-1.0	Charleston	76	+1	.6	-.6
South Bend	75	+2	3.8	+3.0	Hatteras	79	+1	.1	-1.3	Huntington	77	+1	.9	-.1
IOWA, Burlington . . .	79	+3	4.9	+4.1	Raleigh	82	+4	T	-1.2	Parkersburg	75	-1	2.5	+1.5
Des Moines	79	+3	1.0	+ .3	Wilmington	82	+1	2.0	+ 1	WIS, Green Bay	73	+3	.8	+ 1
Dubuque	75	+3	.3	-.6	N.DAK, Bismarck . . .	74	+2	.2	-.2	La Crosse	76	+3	.5	-.2
Sioux City	78	+2	T	-.7	Fargo	75	+4	T	-.7	Madison	74	+4	.1	-.7
KANS, Concordia	83	+4	.7	0	Williston	73	+2	.2	-.2	Milwaukee	74	+4	.4	-.3
Dodge City	83	+3	0	-.7	OHIO, Akron-Canton . .	70	-2	.5	-.3	WYO, Casper	72	0	.3	+ 1
Goodland	76	-1	.4	-.2	Cincinnati	77	+1	.2	-.7	Cheyenne	66	-4	1.5	+1.1
Topeka	81	+2	T	-.9	Cleveland	73	+1	.3	-.5	Lander	72	0	.9	+ .8
Wichita	82	+1	0	-.9	Columbus	73	-1	2.9	+2.0	Sheridan	72	0	T	-.1
W. Lexington	77	0	.5	-.6	Dayton	76	+1	.2	-.6	P.R. San Juan	83	+2	.4	-1.1
Louisville	80	+3	.3	-.5	Toledo	75	+2	1.5	+ .8					

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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: Hot and hazy. Temperatures increased from below normal on 19th to the hottest in 5 years on 25th. High 103° at Tuscaloosa. Rainfall widely scattered throughout week, none at most stations to locally heavy at a few stations.

Soil moisture very short to short. Six days favorable fieldwork. Cotton fair condition, 20% setting bolls, 52% 1975, 64% average. Corn good condition 40% dented, 45% 1975, 28% average. Soybeans good condition but late, 20% blooming, 48% 1975, 36% average. Peanuts good condition.

ALASKA: Tanana Valley showers fell the first two days of the week. Remaining days were warm and dry with afternoon maximums reaching the middle 80's. Temperatures for the week were much above normal while rainfall was generally less than normal accumulations. Matanuska Valley was mostly cloudy with light rain at the beginning and end of the week. Temperatures climbed into the middle 70's during midweek. Weekly averages were only slightly above normal. Rainfall was spotty and in a few places above normal. Kenai Peninsula light rain fell at the beginning and end of the week. Most days had some average sunshine. Temperatures were above normal for the week and precipitation below seasonal levels. Kodiak Island was cloudy and wet most of the week. Temperatures were near normal while rainfall averaged almost 1.00 in. above the normal weekly total.

Some grain fields were turning color in Tanana and Matanuska Valleys. Grain is averaging about 24 in. high in the main producing areas. Ground moisture supply was short in the Fairbanks area to adequate in parts of the Matanuska Valley.

ARIZONA: Monsoon weather prevailed. Humidities high, temperatures normal, 6° below normal. Precipitation near to above normal. Rains continue spotty, but heavy central portions. Widespread rains fell northern, eastern mountains. Very heavy rains southeastern areas.

Cotton making satisfactory progress. Irrigation, cultivating, insect control active. Early plantings holding good boll set. Sorghum in various stages development. Early plantings heading and beginning to turn color. Late seedings progressing normally. Cutting and baling alfalfa hay active. Cantaloup, watermelon harvest virtually complete. Harvest of most other fruits and vegetables complete. Few valencia oranges and grapefruit remaining. Widespread rainfall halted field operations. Summer grasses greening up. Cattle and calves on desert ranges mostly poor to fair. Higher elevations mostly good.

ARKANSAS: Temperatures near normal. Extremes: 100° at several stations weekend and 56° at Calico Rock first of week. Rainfall scattered and light. Most was 0.33 in. at Keiser about midweek.

Soybean planting complete. Rain needed. Early beans beginning to bloom. Cotton fruiting well. Bolls setting 35% of acreage, 83% last year. Rice in good condition, some heading. Corn and sorghum in good condition but needing rain. Tomato harvest nearing completion. Hay harvest continued. Pastures providing adequate forage. Cattle good.

CALIFORNIA: Central Valley, central coast and desert areas trended cooler during the week other-

wise little departure from average temperature. Desert area cooled most and maximum temperature reported 107°. Some light rain extreme north. Scattered traces of rain southern half of State and up to a few hundredths of an inch southern mountains. Thunderstorm activity intermittently during week over the Sierra Nevada.

Small grain harvest about completed. Alfalfa cutting active. Cotton, dry beans, corn, and milo progression well. Sugarbeet digging Bakersfield. Rice good growth, some weeks. Approximately 20-25 percent of small size coastal lemons lost due to extreme temperatures late June. Canning peaches and apricot harvest at a standstill due to cannery strike. Almond, grape, walnut crops making good progress. Broccoli, cauliflower, carrots, corn, cabbage, celery, lettuce, tomatoes moderate. Canning tomato at stand still due to labor problems. Onion, potato volume heavy. Scattered showers gave relief but ranges remain dry. Cattle movement above normal. Cow-calf operators beginning to wean calves move to feedlots. Grazing grain stubble. Water supplies low. Honey extraction nearly complete. Mature turkeys moved to process plants.

COLORADO: Hot temperatures over the weekend. Max for the week of 106°. Precipitation heaviest over and near the northern mountains and eastern Plains. General rains from 0.75 in. to 1.25 in. Eastern Plains and northern mountains. Southern mountains and west precipitation varied 0.50 to 0.75 in.

Winter wheat harvest final stage, 86% complete, 75% last year, 86% average. Corn growth normal; 48% tasseled, 32 last year, 51 average. Spring planted crop good condition, development normal. Dryland sorghum under stress southeast, insects and dry soils. Vegetable harvest active. Spinach, lettuce, sweet corn.

FLORIDA: Temperatures were near normal for the period. Scattered afternoon and evening thunder-showers totaled 1.00-2.00 in. Fort Myers had 0.50 in. hail, 21st; Bradenton had hail, 23d.

Soil moisture adequate south, central but becoming short north, west. Corn harvest increasing yields variable. Tobacco harvest, marketing active. Hay harvest active. Peanuts, soybeans, sugarcane making good progress. Pastures maintaining good to excellent growth as showers replenish soil moisture. Forage conditions good. Cattle, calves good condition, continue to make gains. Citrus excellent condition, new growth abundant, hot and wet all areas, new crop fruit progressing very well, valencia harvest slowing. Fall season land preparation active; plantings several vegetables to begin in 2 to 3 weeks. Limited supplies summer vegetables moving through local markets.

GEORGIA: Soil moisture variable, adequate to very short, mostly short.

Fieldwork: Six days suitable. Cotton fair to mostly good condition, 83% setting bolls, 86% last year. Peanuts weaker, fair to mostly good condition. 98% blooming, 94% pegging, last year 98% and 92% respectively. Corn weaker, fair to mostly good condition. Soybeans also weaker, fair to mostly good condition. Tobacco 78% harvested, last year 68%, average 64%. Watermelons fair condition, 85% harvested, 79% last year. Peaches 91% harvested this year and last, average 85%.

Condition hay crops lower, fair to mostly good. Cattle, hogs both good condition. Pastures declined, fair to mostly good.

HAWAII: Weather favorable. Skies partly cloudy to cloudy. Shower activities increased most islands. Beneficial to crops.

Spray continued to curb insect infestations. Vegetables supplies adequate. Bananas harvesting steady. Papayas declining seasonally but supplies still heavy. Pineapple active harvesting. Sugar harvesting steady. Showers not sufficient to replenish soil moisture leeward area. Windward pastures fair to good.

IDAHO: Temperatures averaged near normal. Extremes: 48 and 105°. Showers during weekend 1.36 in. at Grace. Large hail in mountain home--Murtaugh area.

Generally warm weather. Aphids still problem in north -- extensive air spraying. Main farm activities were irrigation, hay harvest, weeding, corn detasseling. Limited harvesting of winter wheat, barley, dry peas, apricots, mint harvest. Pasture in south -- dry. Livestock and other crops in good condition.

ILLINOIS: Temperatures 1 to 4° above normal. Precipitation up to 5.00 in. north up to 3.64 in. south. Thunderstorms north 20th, southeast 24th.

Corn 8% excellent, 58% good, 29% fair, 5% poor; 81% silked, 89% 1975, 63% average; 25% dough, 30% 1975, 10% average. Soybeans 5% excellent, 60% good, 34% fair, 1% poor; 74% bloomed, 79% 1975, 54% average; 30% setting pods, 51% 1975, 24% average. Oats 100% ripe, 93% 1975, 89% average; 80% combined, 63% 1975, 56% average. Second crop alfalfa hay mostly fair to good; 86% cut, 69% 1975, 62% average. Winter wheat acreage 15% plowed, 5% 1975, 4% average. Pastures mostly fair to poor, Soil moisture 67% short, 31% adequate, 2% surplus. Fieldwork: 5.5 days suitable.

INDIANA: Dry hot week except in extreme north and extreme southwest where rainfall ranged from 1.00 to 4.00 in. Average rainfall 0.20 to 0.50 in. Temperatures averaged 3° above normal. Least rainfall in July so far in west central, less than 1.00 in.

Fieldwork: 5.0 days suitable. Topsoil and subsoil moisture short to mostly adequate. Oats 70% combined, 1975 70%, average 45%. Barley 95% combined. Rye 90% combined. Wheat land 5% plowed, 1975 5%, average 5%. Corn 60% silked, 1975 70%, average 40%. Soybeans 55% in bloom. Soybeans 25% setting pods, 1975 30%. Alfalfa hay 70% cut 2nd time, 1975 65%, average 55%. Peaches 30% picked. Pastures mostly fair.

IOWA: Temperatures averaged 1 to 5° above normal. Precipitation well above normal central and south, below normal elsewhere. Scattered rains, cloudy, humid weather provided some relief. Most rain fall in central, east central, southeast districts. West central, northern third remain dry.

Scattered rain made crop conditions highly variable. Fieldwork: 5.5 days suitable. Corn development, condition variable. Corn excellent where rain fall, suffering from dryness west central, northern third. Rolling of leaves, firing becoming more prevalent light soils. Corn condition 8% poor, 29% fair, 44% good, 19% excellent. Corn 94% tasseled, 85% last year. Corn fields 72% silked, 64% last year, 62% average. Soybean situation similar, condition depending on rainfall. Some yellowing of lower leaves on light soils. Soybean condition 6% poor, 35% fair, 50% good, 9% excellent. Bean fields 77% blooming,

72% 1975, 65% average. Soybeans setting pods 40%, 39% last year, 25% average. Oat, wheat harvest slowed by rains. Oats 90% harvested, 67% last year, 59% average. Winter wheat virtually all harvested, but lagging northern third. Second cutting alfalfa 83% harvested, 69% last year, 62% average. Second cutting clover hay 46% harvested, 34% 1975. Topsoil moisture 69% short, 31% adequate. Subsoil moisture 65% short, 35% adequate. Still dry west central, northern third, moisture improved elsewhere. Livestock good, some heat stress. Supplemental feeding common due to poor pastures.

KANSAS: Temperatures averaged mostly lower 80's or 2° above normal west and south and around 4° above normal northeast. Scattered thunderstorms 0.50 in. to 1.00 in. rain over northwest half little. No rainfall occurred over southeast portion.

Wheat harvest completed except few scattered fields. Corn 55% tasseled, 65% last year and average, 5% in dough, 15% last year and average. Soybeans 5% podded, 10% last year, 20% average. Sorghum 5% headed, 10% last year and average. Alfalfa second cutting 95% complete, same as last year, 90% average. Third cutting alfalfa 25% complete, 15% last year, 20% average.

KENTUCKY: Warm humid week with temperatures averaging a little above normal. Scattered thunder-showers prevailed from midweek to week's end. Rainfall amounts averaged 0 - 3.00 in.

Fieldwork: 5.0 days favorable. Topsoil moisture becoming short, especially West and River counties, generally adequate to short elsewhere. Corn progressing well, excellent condition across State, 65% silking stage or beyond. About 20% soybeans blooming. Tobacco condition deteriorating, due mostly to weather and physiological factors plus some outbreaks of black shank and leaf viruses. About 28% burley and 39% of dark types have reached the bloom stage. Pastures and late hays remain excellent.

LOUISIANA: Temperatures 3° below normal northwest, near normal elsewhere. Extremes: 63 and 99°.

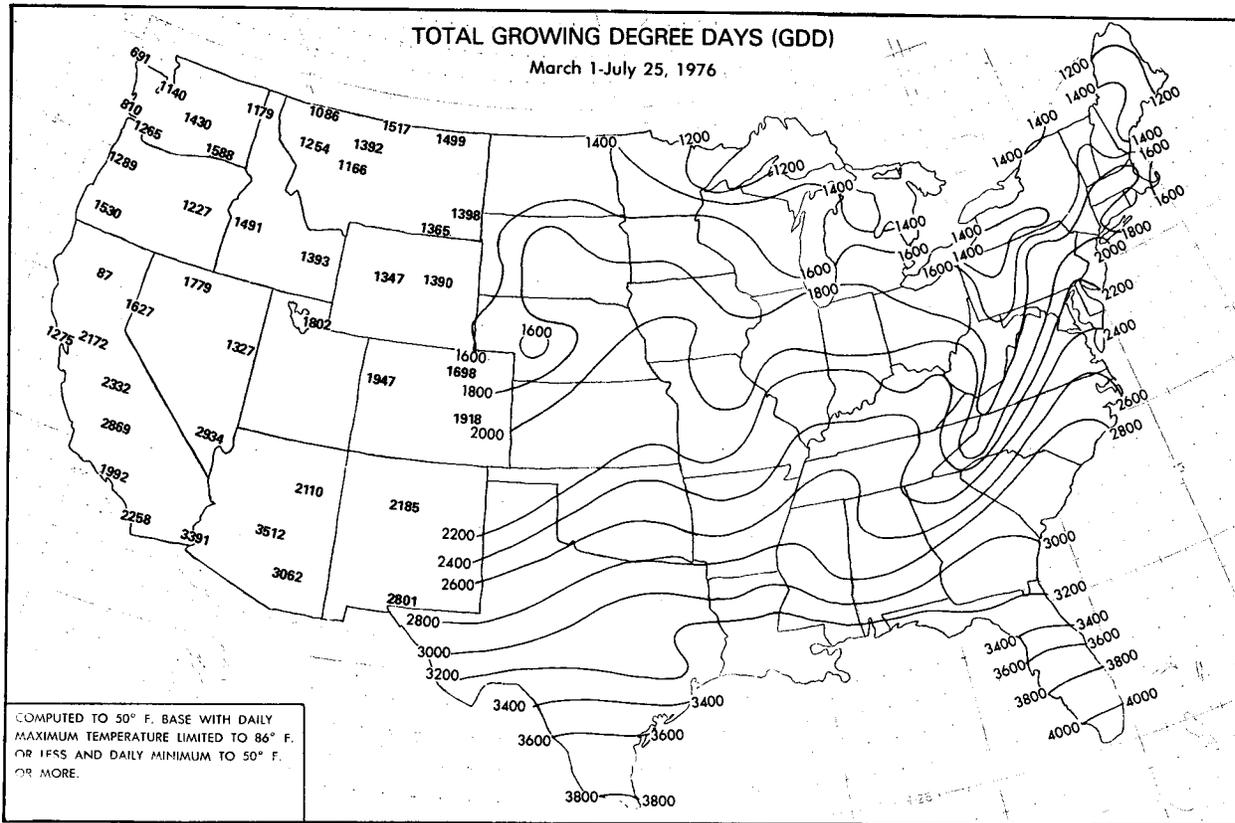
Soil moisture adequate. Fieldwork: 5 days suitable. Cotton 95% squaring, 57% setting bolls. Rice 66% headed; 7% ripe. Soybeans good condition; 61% blooming. Corn good, 86% dough stage, 40% mature. Sorghum good, 60% headed. Sugarcane good. Sweetpotatoes good - harvest underway. Pastures, cattle good.

MARYLAND & DELAWARE: Temperatures averaged 2° below normal. Extremes: mid 40's, low 90's. Precipitation 0.01 to 1.99 in. Weekend warm and sunny.

Corn crop 65% silked, 51% 1975, 55% average. Some fields sprayed for spider mites. Soybeans 20% bloomed, progress a week ahead of normal. Small grain harvest nearly complete. Third cutting alfalfa 40% complete. Second cutting other hay 60%. Vegetable harvest active. Early apples, peaches harvested.

MICHIGAN: Temperatures warm at start of week with cooling midweek. Scattered thundershower activity. Precipitation ranged from 0.28 to 1.26 in. Rains provided relief to crops.

Soil moisture mostly short in northern half, adequate elsewhere. Corn 30% silked, 1% dough. Wheat 80% harvested, 75% 1975, 50% normal. Oats harvest underway in lower third with 5% done, 10% 1975. Dry beans in blossom with 20% setting pods. Soybeans 15% setting pods, 30% last year. Summer potato digging picking up speed in Saginaw Bay



area. Second cutting hay 40% cut, 30% last year and normal. Pasture feed supplies mostly below average to average. Tart cherries 80% picked. Summer apples 5%, equal to last years progress. Peach harvest underway in southwest. Pickles 10% complete. Cabbage and celery harvest underway in south, tomato and sweet corn beginning.

MINNESOTA: A hot week with temperatures averaging 3 to 5° above normal. Extremes: 103 and 46°. Precipitation over northeast third of State averaged over 1.00 in. to 0.33 in. or less over the southwest two-thirds of the State. Over the major agricultural areas of the west and south precipitation 5.00 to 7.00 in. below normal.

Crops continue under severe temperature, moisture stress southern half. Substantial rain urgently needed to maintain development. Corn, soybean yield prospects poor in extremely dry west central, southwest district. Small grain harvest well along in south, underway in Red River Valley. Some fields yielding better than expected. Corn 77% tasseled, 1975 73%, normal 70%. Soybeans 81% blooming, 1975 86%, normal 79%. Percent combined: spring wheat 17%, 1975 0%, normal 2%; oats 37%, 1975 6%, normal 7%; barley 22%, 1975 0%, normal 5%; winter wheat 57%, 1975 18%, normal 15%; rye 62%, 1975 22%, normal 19%. Flax 27% turning ripe, 1975 21%, normal 21%.

MISSISSIPPI: Temperatures 3-5° subnormal. Extremes: 53 and 98°. Greatest 24-hour rainfall 2.15 in. at Lexington on the 17th.

Soil moisture short to adequate. Fieldwork: 6.1 days suitable. Cotton 96% squaring, 85% 1975, 92% average; 64% blooming, 57% 1975; 26% setting bolls, 34% 1975, 71% average. Soybeans 38% blooming, 21% 1975; 4% podding, 9% 1975. Rice 21% headed, 5% 1975. Corn 90% silked, 73% 1975, 76%

average; 58% in dough stage, 42% 1975; 17% dented, 23% 1975. Sorghums 42% headed, 28% 1975. Hay crops 52% harvested, 48% 1975, 51% average. Watermelons 53% harvested, 43% 1975, 46% average. Peaches 82% harvested, 78% 1975, 77% average. Cucumbers 87% harvested, 87% 1975. Cotton in fair condition. Other crops in good condition.

MISSOURI: Temperatures ranged from 1-3° above normal Statewide. Precipitation averaged 0.25 in. northern portion, zero precipitation elsewhere.

Farming activities: Fieldwork: 6.1 days suitable. Soybeans 36% blooming. Corn 62% silked, normal 65%. Grain sorghum 15% headed, normal 29%. Oats 97% harvested, 1975 96%, normal 86%. Second cutting alfalfa hay 88% complete, normal 85%. Clover-timothy harvesting 92% complete, normal 89%. Bootheel area cotton 55% squared, 7% setting bolls. Condition of corn and soybeans fair to good. Condition of cotton and pasture poor to fair. Soil moisture statewide 85% short, 15% adequate.

MONTANA: Week began and ended cool and wet. Temperatures averaged near normal. Hot midweek with several readings above 100°. Precipitation averaged above normal west and east. Dry central and southwest.

Winter wheat harvest underway--less than 5% complete. More than 25% winter wheat ripe. Nearly 5% spring wheat, 5% barley and 10% oats ripe. Last year 5% winter wheat and no spring grains were ripe. Normally, about 10% winter wheat and 2% of spring grains ripe. About 60% spring grains now still green. Soil moisture adequate but some shortages appearing. Crops in good to excellent condition. First cutting alfalfa 90% done--wild hay 55%--range feed supplies adequate.

NEBRASKA: Temperatures were below normal 19th

and 20th and above normal the remainder of the period. Cooling occurred during period along with showers and thunderstorms. Precipitation was quite variable ranging from just a trace to 2.50 in. in the south central portion of the State.

Topsoil moisture supplies short 77% of counties compared 48% 1975. Subsoil moisture supplies short 86% counties compared to 55% 1975. Wheat harvest 95% completed. Normal 85% and 85% 1975. Corn good condition. Some dryland crops showing signs of drought stress. Sorghum and soybeans fair to good condition. Alfalfa and wild hay fair condition. Second cutting of alfalfa 77% harvested. Wild hay being cut. Pasture and range feed supplies short 76% counties. Supplemental feeding required some areas.

NEVADA: Light scattered showers eastern Nevada early in week followed by widespread showers throughout the State toward weekend. Precipitation ranged from trace at Elko to almost 2.00 in. Las Vegas. Temperatures about normal.

Ranges generally poor condition. Rains have slowed harvest of hay and small grains.

NEW ENGLAND: General showers 20th averaging 0.10 in. to 0.30 in. General rain 23rd with 1.00 in. to 2.00 in. common in Maine, 1.00 in. plus Hartford, Conn. Warm 1st of week, 90's in Boston, cool midweek, warm, 90's end of week.

Maine potatoes continue well as most other N.E. crops. Southeastern portion still dry with pastures and some crops in poor condition. Most summer vegetables on market as are peaches, early apples. Much haying done during week. First cutting 75% north, 95%+ south - second cutting north 15%, south 30%.

NEW JERSEY: Temperatures averaged: 1 to 6° below normal. Extremes: 43° at Newton and Neshanic on 26th and 92° at Bridgeton and Pomona on 21st. Weekly rainfall averaged: 0.39 in. north, 0.38 in. central and 1.07 in. south. Estimated soil moisture, in percent of field capacity, past week averaged: 62 north, 45 central and 61 south. Four inch soil temperature today averaged 72 to 75° around State.

Soil moisture very short in many areas. Growers irrigating. Summer vegetables continue in good supply. Processing tomato harvest beginning. Canhouses to open this week. Peach volume increasing. Blueberry harvest declining. Summer apples in good supply, rain needed for fruit sizing. Small grain combining about complete. Second cutting of hay well advanced.

NEW MEXICO: Topsoil and subsurface soil short to adequate. Cotton fair to good, 85 percent squaring, 30 percent setting of bolls. Alfalfa good, second cut complete in southeastern counties, nearing completion in other southern counties. Third cutting 25 percent complete in southeastern corner. Irrigated grain sorghum good, 10 percent heading. Irrigated winter wheat good. Harvesting virtually complete. Durum wheat fair to good, harvesting 95 percent complete. Barley good, harvesting completed. Corn good, 80 percent tasseling in southern areas. Apples, chili, peanut, and potatoes good. Onions fair to good. Ranges and live-stock fair to good.

Recurring showers all sections of the State. Substantial rain totals all areas except northwest plateau and extreme southeast. Warm early in week with mild temperatures thereafter. Average temperatures for the week 2 to 8 degrees cooler than normal.

NEW YORK: Temperatures below normal. Extremes: 89 and 36°. Rain generally light, average 0.25 in. below normal all areas but eastern Long Island and northern region.

Some improvement field conditions. First cutting alfalfa 82%, second cutting underway; clover-timothy 70%. Early corn tasseling. Oat harvest starting, wheat harvest picking up. Upstate potatoes growing well. Early seeded and set onion harvest beginning Orange County. Celery and lettuce harvest continues - quality good. Sweet corn, tomatoes, cabbage, snap beans on market. Some planting late crops continue. Early variety apples being picked. Scab appearing in orchards. Tart cherry harvest past peak.

NORTH CAROLINA: Temperatures near normal except above normal north and north central areas. Little or no precipitation except scattered thunderstorms eastern sections.

Fieldwork: 5.7 days suitable. Soil moisture mostly short to adequate. Crop conditions deteriorated. Flue-cured tobacco 5% poor, 45% fair, 50% good; 23% harvested, 1975 18%, average 22%. Corn 5% poor, 35% fair, 50% good, 10% excellent; late planting suffering. Soybeans 5% poor, 40% fair, 55% good. Peanuts 10% fair, 90% good. Cotton 5% poor, 55% fair, 40% good. Hay and pastures poor to good. Sweet potatoes 25% fair, 75% good; few dug. Peaches 75% harvested, 1975 65%. Apples 5% poor, 85% fair, 10% good.

NORTH DAKOTA: Temperatures 1-3° above normal all divisions except north central, northeast and southeast, which were normal. Extremes: 105 and 44°. Precipitation below normal all divisions except southwest. Below normal range 0.62 in. central to 0.33 in. northwest. Southwest 1.22 in. above normal. Weekend hot temperatures, scattered showers and thunderstorms.

Crop maturity ahead of normal with about 15% of winter wheat and rye combined, 5-10% barley, hard red spring wheat and oats and under 5% of durum.

OHIO: Precipitation ranged from 2.91 in. central to 0.18 in. southwest. Temperature below normal beginning and end of week, while above normal during midweek.

Harvest completion: Wheat virtually complete, 90% 1975 and 85% normal; oats 55%, 1975 and 40% normal; barley 90%; virtually complete 1975 and 95% normal; 2d cutting alfalfa hay 65%, 65% 1975 and 55% normal; clo-tim 45%, 45% 1975 and 30% normal. Corn 75% silked, 90% 1975 and 50% normal. Corn 10% in dough stage, 15% 1975 and 5% normal. Soybeans 70% setting pods, 70% 1975 and 40% normal. Corn and soybean condition reported mostly good. Soil moisture: 15% short, 57% adequate, and 28% surplus. Fieldwork: 4.0 days suitable.

OKLAHOMA: Temperatures averaged from normal Panhandle to 4° below normal south central and southeast. Precipitation ranged from none in several divisions of northern two-thirds of State to near 1.00 in. southeast. Weekend hot with scattered mostly light rains across State.

Warm temperatures and limited rainfall left top soils with adequate moisture in only 28% of counties. Rains are needed for cultivation, plowing and sprouting of volunteer wheat. Crops remain in good condition, however. Wheat ground 91% worked, near the 93% average.

Fertilizer being applied. Corn good condition, 80% acreage tasseled or beyond, 88% year ago, average 65%. Sorghums late but good; 26% acreage headed, 36% year ago and average. Only 3% reached dough. Some cotton now setting bolls, with 59% crop squaring, 3 points ahead year ago, 5 points over average. Condition good to fair. Peanuts and soybeans good condition but behind year ago and average. Half peanut acreage flowering, compared 60% average. Soybeans 11% flowering, compared 29% year ago, 27% average. Ranged need rain for growth and continued supply feed. Cattle in good condition.

OREGON: Temperatures for the week averaged slightly above normal. Extremes: High 90's, 41° west; 10P, high 30's east. Precipitation was mostly insignificant except thunderstorm activity early in week over extreme south, southeastern portions.

Fall grains being harvested. Yields variable; mostly good. Bluegrass being combined. Seed crop yields fair. Hay being cut; some second cutting. Hops, peppermint in good condition. Sweet cherry harvest nearly completed. Tart cherry harvest continues. Filberts sizing well. Snap bean and potato harvest started. Livestock good condition. Cattle market slow. Range, pastures drying.

PENNSYLVANIA: Fourth consecutive cool week. Daytime temperatures 70's to low 90's; beginning 60's and 70's weekend. Minimums 50 and 60 early week; 30 to 50 weekend. Weekly temperatures 2 to 6 degrees below normal. Extremes: 90 and 34°. Showers and thunderstorms mostly midweek totaled under 0.25 in. to over 2.00 in.

Soil moisture adequate to surplus. Four days suitable for fieldwork. Activities: Combining barley, wheat and oats; topping tobacco; making hay and baling straw; digging early potatoes; spraying; harvesting fruits and vegetables. Corn height 58 inches, same as 1975. Oats 14% harvested, 43% ripe - last year under 10% harvested. Barley 89% harvested, 11% ripe - last year 68% harvested. Wheat 56% harvested, 42% ripe - week ahead of last year's 27% harvested. Alfalfa second cut 56%, clo-tim 88%. Hay quality fair. Feed from pastures average to above average.

PUERTO RICO: Island average rainfall 0.72 in. or 0.73 in. below normal. Temperatures averaged about 81° on coasts and 75° interior. Extremes: 95 and 56°.

SOUTH CAROLINA: Temperatures for week hotter than usual. Temperatures ranged from about normal early week to 1 to 2° above normal remainder of week. Daily temperatures mostly 90° or above; near 100° several locations on 22d, 24th. Rainfall light in mountains, western portion of State. Showers more numerous in northeast, central, southeast portions. Rainfall activity highly localized, some hail reported in north central area. Many areas received no rainfall during week.

Soil moisture generally short. Hot, dry weather having adverse affect on most crops. Late planted soybeans, corn hit hardest. Tobacco damaged by early July rains, hot temperatures mid-July. Crop condition--poor to fair; watermelons; fair to good: cotton, tobacco, peanuts, soybeans, pastures, peaches, grapes; good: hay crops. Cotton 95% squaring, 90% 1975, 92% average. Cotton 57% setting bolls, 69% 1975, 68%

average. Corn 96% silked, 88% 1975, 92% average. Corn 13% mature, 34% 1975, 20% average. Tobacco 51% harvested, 45% 1975, 51% average. Peaches 80% harvested, 67% 1975, 65% average. Watermelons 68% harvested, 74% 1975, 70% average.

SOUTH DAKOTA: Scattered precipitation, mostly under 1.00 in. Deficits since growing season began range up to 9.00 in. east and central; normal precipitation, west. Temperatures above normal. Extremes: 107 and 44°.

Small grain harvest 10 days ahead of normal. Very low yields but grain quality and test weight better than expected. Grain harvested: Winter wheat 88%, 1975 70%, normal 67%, rye 93%, 1975 43%, normal 59%; oats 80%, 1975 34%, normal 38%, barley 76%, 1975 37%, normal 45%; spring wheat 63%, 1975 15%, normal 22%. Corn hurt by hot, windy weather. Some fields burning, curling leaves common. Corn 51% tasseled compared to 48% 1975 and normally. Corn silked 28%, 1975 26%, normally 38%. Forage crops at near standstill--need moisture. Feed shortages, stock water problems and poor pastures have forced heavy cattle sales. Grain stubble and hay providing temporary feed. Flies and pinkeye problems prevalent.

TENNESSEE: Under high pressure, fair to partly cloudy conditions prevailed through the week. Cold front became stationary along the southern border Sunday. Scattered thundershowers after midweek brought an average 0.50 in. of rain locally but many areas had none. Temperatures averaged 2° above normal west and near normal middle and east.

Hot, dry weather pushed crop development. Rain needed as crop damage occurring due to dry conditions in some areas. Soil moisture short 60% of counties. Fieldwork: 5.5 days suitable. Haying, cultivating and spraying main activities. Corn good to excellent condition. Corn 75% silked, 80% last year and average. Corn 25% dough, 40% last year, 35% average. Cotton 86% squared, 97% last year, 93% average. Cotton 25% setting bolls, 55% last year, 45% average. Cotton, condition improved, 10 days behind normal, stands uneven. Soybeans 30% blooming, 45% last year and average. Soybeans 5% setting pods, 15% last year, 10% average. Soybean development varies greatly due to long planting season. Second cutting alfalfa 95% completed, 85% last year, 95% average. Tobacco generally good condition, some diseases, topping started. Pastures getting dry.

TEXAS: Cool temperatures, near normal rainfall. Temperature averaged 7-10° below normal. Readings averaged 2-5° below normal elsewhere. Normal temperatures range from low 80's northwest to 80's elsewhere. Rainfall averaged 0.50 in. Heaviest rains occurred Edwards Plateau, east, where amounts averaged 0.50 in. above normal. Normal rainfall ranges from more than 0.25 in. southwest, over 1.00 in. southeast.

Excessive rainfall slowed sorghum, rice harvest south, central. Insect problems rapidly increased all parts. Cotton fields throughout showing increasing boll weevils. Insect concentrations heaviest in Blacklands. Rain, wet continue to delay harvest lower Rio Grande Valley. Fields on plains beginning to bloom. Sorghum harvesting continues to spread northward. Excessive moisture south, central slowed harvest, damaged grain quality, reduced yields. Corn continues to make good progress. Tasseling underway on northern high plains. Harvesting continues south, central, east. Peanuts

in Blacklands, Cross-Timbers regions progressing well; leaf spot damage reported. Fields areas making fair growth need dry sun. Hay harvest continues active as weather permits. Army worms of concern all areas south, east, northeast. Rice harvest progressing slowly; 9% harvested, behind last year, far behind 3-year average. Plowing for fall planting begun north, and southern High Plains. Rains slowed vegetable harvest. Potato harvest in full swing. Cucumbers, bell peppers show good growth. Harvesting watermelons, cantaloups, tomatoes. Citrus making excellent growth. Sacked onions remain in fields due to rain. Land preparation for fall crops. Peach harvest in north Texas nears completion. Peach harvest active in east Texas and nears completion in central Texas. Ranges almost all areas improving rapidly after recent rains on northern High Plains, the one area that has not experienced above normal rainfall. Pasture conditions generally poor. Cattle throughout generally good. Mosquitoes, hornflies, ticks increasing concern south, central, east. Goat shearing underway on Edwards Plateau.

UTAH: Scattered showers and thunderstorms throughout period. Accumulated amounts of moisture very variable ranging from little or none to over 0.75 in. Few areas local flash flooding. Average temperatures for period generally near normal.

Sweet cherry harvest ended--good quality and production reported. Sour cherry and apricot harvest started--prospects seem good. Winter wheat harvest underway--prospects vary from poor to good. Some limited spring grain harvesting--prospects vary from poor to good. Second crop alfalfa hay 15 to 20 percent harvested.

VIRGINIA: Temperatures varied widely, average slightly below normal. Extremes: 98 to 46°. Rainfall light, average about 0.33 in.

Fieldwork: 5.5 days suitable. Topsoil moisture 74% short, 25% adequate, 1% surplus. General crop conditions declining. Rains needed large area of State. Corn 60% silked, 97% in southeast. Yield potential being reduced due dry soils. Soybeans light cultivation and spraying for weeds. Oldest blooming. Peanuts good. Flue-cured harvest increasing. Irrigated good, other needs rain badly. Burley satisfactory except disease problem. Wheat harvest near end. Good haying week, but crop poor many areas. Pasture declining rapidly. Some feeding livestock and increase in marketing. Harvesting peaches and early apples. Harvesting tomatoes and cucumbers. Potato harvest nearing end.

WASHINGTON: West: Temperatures averaged from near normal on coastal/west olympic areas to slightly below elsewhere. Strawberry harvest complete, blueberry begins. Ideal weather for raspberries and at peak. Fruit thinning with some labor problems. Sweet corn is behind in growth. Range and pastures adequate.

East: Temperatures averaged from 1 to 2° below normal. Precipitation near to slightly

below normal, except northeast where it averaged 0.30 in. below normal. Dryland wheat harvest underway, irrigated wheat is beginning. Cherry harvest complete at lower elevations, starting at higher area with excellent quality fruit. Apricot and early peach harvest underway. Growing conditions favor good apple crop. Green pea and Walla Walla sweet onion harvests near completion.

WEST VIRGINIA: Temperatures averaged below normal, precipitation above normal, high 93% clay, low Canaan Valley 37°. Fieldwork: 3.9 days suitable. Soil moisture 25% short, 50% adequate, 25% surplus.

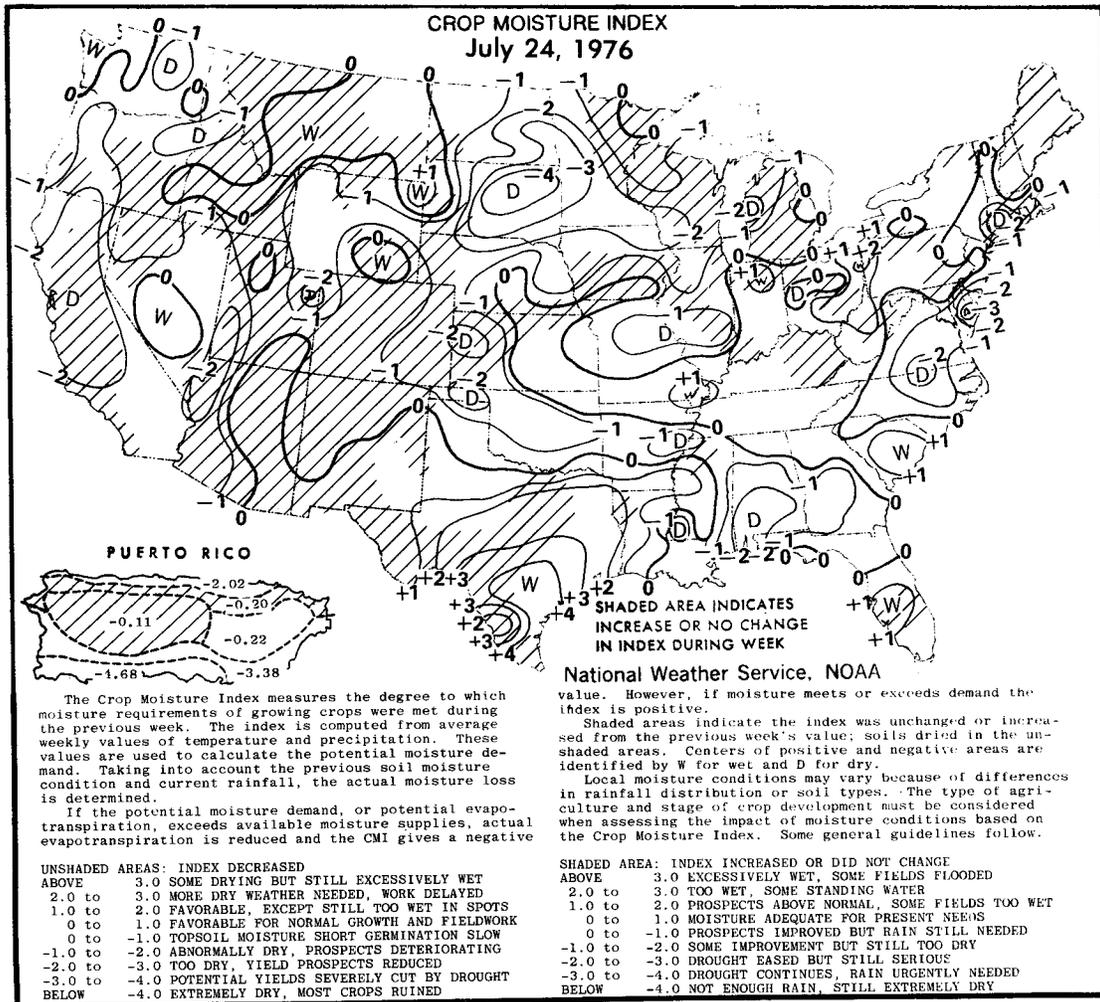
Small grain harvest: Wheat 85%, 1975 64%, average 65%; barley 92%, 1975 64%, average 76%; oats 35%, 1975, average 30%. Hay: 1st cutting, 91% complete 1975, average 90%; 2nd cutting 14%, 1975 15%, 15% average. Tobacco mostly fair, potato digging 5%, 1975 10%; condition 3% poor, 31% fair, 61% good, 5% excellent; Corn 3% poor, 33% fair, 59% good, 5% excellent. Some low lying areas drowned out. Pastures fair to good, eastern counties need rain to improve quality.

WISCONSIN: Temperatures averaged 2° above normal. Weekend temperatures in 90's, high 99° Madison 23rd. Significant rainfall 19th-20th of 1.00 to 3.00 in. except in southern counties where less than 0.50 in. fell 23rd.

Corn crop improved where heavier rains occurred. Condition of crop varies from very poor on sandy soils to good on heavier soils that received received moisture. Corn 25% in silk, 1975 40%, normal 25%. Late corn tasseling. Corn rootworms numerous in many advanced fields and considerable silk feeding noticed. Harvest active on small grains. Winter wheat yielding best. Oat yields light except where planted very early. Oats 20% harvested, 1975 none, normal 3%. Most oats harvested has been for oatlage due to poor grain potential. Second crop hay 25% harvested, 1975 20%, normal 15%. Many farms have no second crop to harvest due to inadequate moisture for growth. More planting of emergency forages. Pasture conditions very poor. Soybeans improved where had rain. Tobacco growth good where received moisture, spotty in drier areas. Irrigated potatoes and vegetables thriving, unirrigated acreage poor to fair. Below normal pea crop near end. Early sweet corn on market. Cherry harvest in full swing. Apples may be smaller in size due to dry weather. Soil moisture 90% short, 10% adequate.

WYOMING: Temperatures near normal statewide. Precipitation near normal over State, slightly above normal in Upper and Lower Platte drainage.

Soil moisture short. Topsoil: short 63%, adequate 37%. Isolated hail damage. Winter wheat 23% harvested. Barley 8% mature. Oats 39% turning color. Potatoes and dry beans 51% and 54% in bloom respectively. Corn 15% tasselled. Major activities: Combining and haying. Alfalfa 8% in second cut. Other hay 34% harvested. Stock water adequate.



HARVESTING PROGRESS

Percent of Acreage Harvested
(as of July 25)

winter wheat

	1976	1975	Avg.
Colo.	86	75	86
Ill.	100	100	100
Ind.	1/	1/	2/
Kans.	99	99	99
Mo.	100	100	100
Mont.	4	0	1
Nebr.	95	85	85
Ohio	99	90	85
Okla.	100	100	100
S. Dak.	88	70	67
Tex.	100	100	100
U. S.	90	87	86

These 11 States produced 71% of the Nation's winter wheat in 1975.

1/ Virtually complete.
2/ Not available.



FIRST CLASS MAIL

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World Weather and Crop Update

HIGHLIGHTS: Rains fell in many dry trouble spots around the world in the week ending July 26. Argentina, the U.S. Corn Belt, the People's Republic of China (PRC), India, Italy, much of Eastern Europe, parts of the Soviet New Lands and Australia received sufficient amounts to ease crop stress. Areas of drought remain, especially in Australia, and much more rain is needed to build up ground and storage water in western Europe.

Tropical storm Violet soaked the Southeast PRC and heavy rains drenched India's Gangetic Plain.

The U.S. Corn Belt suffered from unusually cold temperatures in May and hot, dry weather in July.

Unusually warm temperatures in May, June and early July accelerated deterioration in the drought areas of Western Europe. Warm temperatures plus adequate moisture produced a nearly ideal situation for corn in some areas. Wetter and cooler weather from mid-July to the present helped somewhat, but came too late in much of France, Belgium, and parts of other Western European countries.

The warm temperatures required to mature corn for grain in the European USSR fell below the optimum level. Adequate moisture dampened much of the country. Although parts of the western European USSR experienced too much dryness, the central region received too much moisture.

The East European countries weather fell be-

tween the extremes. Although temperatures and precipitation hit seasonable ranges, dry spells stressed crops in the north.

Cool May-June temperatures in the PRC inhibited growth and development of corn and soybeans. Inadequate early summer rainfall in parts of the North and Northeast necessitated irrigation of considerable acreage. Rain last week provided some relief.

A warm spring and cool, wet early summer reached near optimum for Canadian spring wheat, but much of the adjacent U.S. spring wheat area suffered from moisture shortages. Temperatures remained rather favorable in the USSR's spring wheat area, although crops west of the Urals need warmer temperatures. Inadequate summer rainfall in eastern oblasts of Kazakhstan and West Siberia caused some stress. Overall the USSR growing season favored spring grains.

Sparse fall and winter rains in Australia indicate thin stands and short yields for winter wheat. Favorable moisture conditions preceeded the Argentine winter wheat seeding and provided a buffer for the winter dry spell.

Recent rains eased much concern. Freezes damaged some wheat primarily in the milder Brazilian Parana area. Otherwise, temperatures and rainfall remained satisfactory, particularly in important Rio Grande du Sul.

