

# Weekly Weather & Crop Bulletin

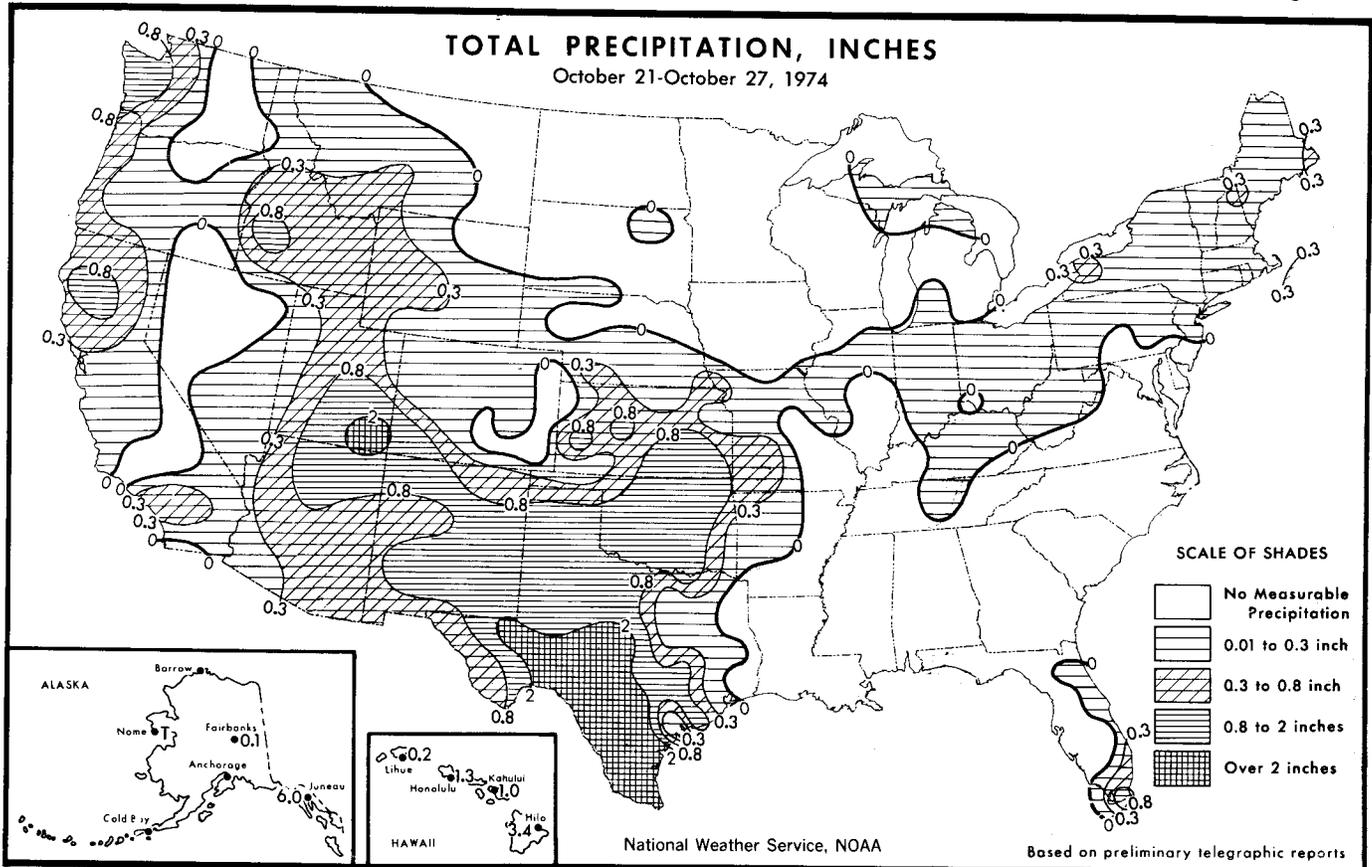
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## NATIONAL WEATHER SUMMARY

For the Week of October 21-27

**HIGHLIGHTS:** Warm moist Gulf air moved northward last week triggering precipitation throughout Texas, northward to Kansas and westward through the Rocky Mountains into Southern Idaho. Moderate rains of 0.30 to 1.50 in. fell along the Washington, Oregon and northern California Coasts. In Texas, over 2.00 in. fell in Del Rio, San Angelo, San Antonio and Corpus Christi. Elsewhere Blanding, Utah reported over 2.00 in. Rain was generally 0.20 in. or less in the Corn Belt and confined to Indiana and Ohio.

Little or no rain fell over the remainder of the Nation. The only exception was the east coast of Florida where some moderate precipitation was reported last week.

A high pressure system moved slowly southeastward during the week, pumping cooler air across the Appalachian Mountains and into the Nation's eastern third keeping temperatures below normal.

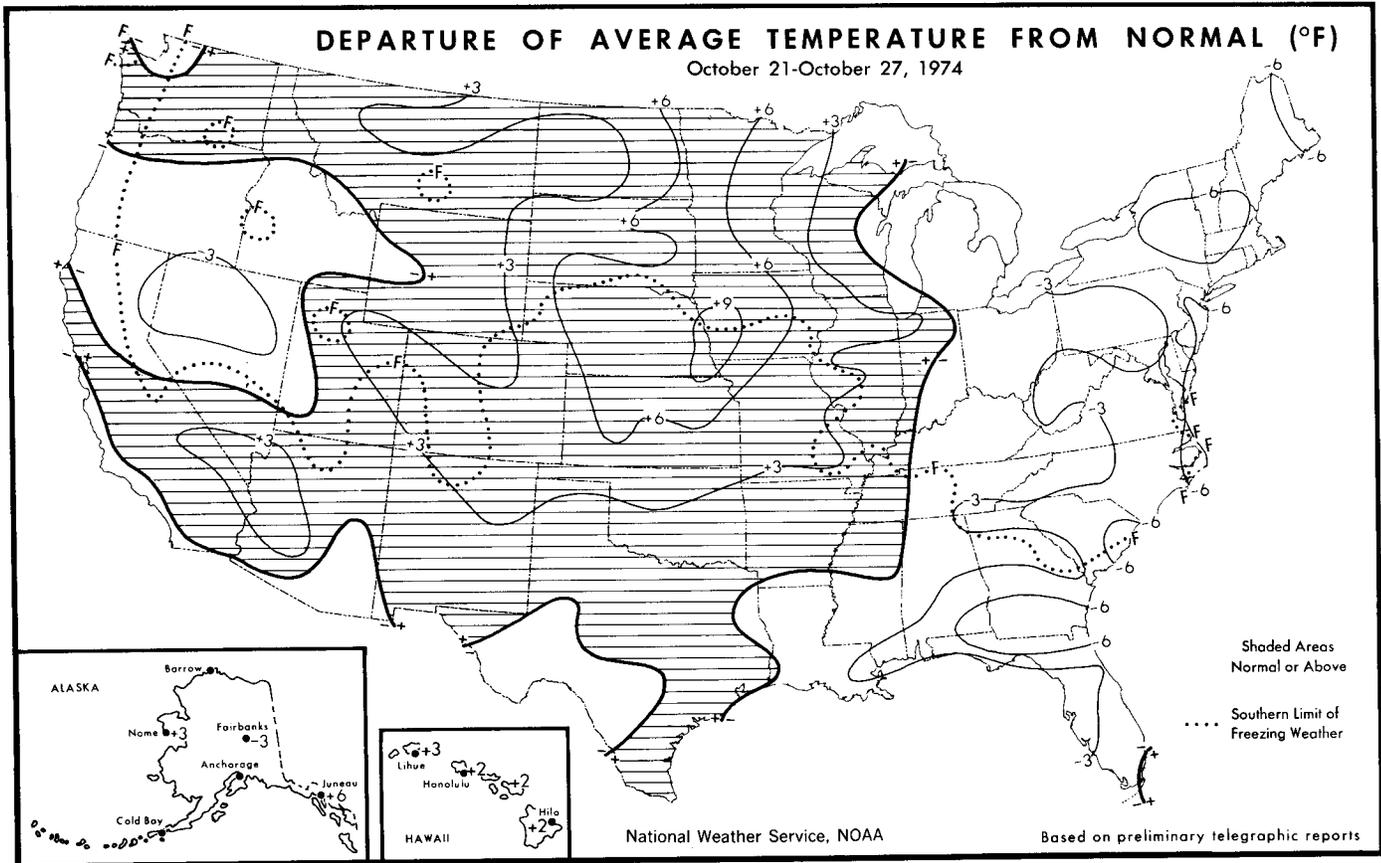
In the Nation's western two-thirds, temper-

atures were above normal with the exception of an area including southern parts of Oregon, Idaho, extreme northern California and northern Nevada where temperatures averaged 1 to 4° below normal.

**PRECIPITATION:** Moist Pacific air moving into the Western States dropped moderate rains along the Coast and reinforced the Gulf moisture reaching across the Rocky Mountains. Rainfall ranged from over 2.00 in. in Texas to 0.84 in. at Boise, Idaho. The Northeast, Midwest, Southeast, Far West reported traces of precipitation with only a few isolated heavy showers.

Monday, thundershowers from Arizona to western Texas, produced moderate to heavy rainfall. In six hours during the afternoon San Antonio, Texas reported 1.26 in. of rain.

Showers and thundershowers occurred from the Desert Southwest to the Southern Plains on Tuesday with some isolated severe weather.



Wednesday, a stationary front produced scattered showers and thundershowers in the central and southern U.S. Most of the activity occurred from Missouri to Ohio and over the western two-thirds of Texas. A heavy thundershower dumped over 1.50 in. of rain in a 20 minute period at San Antonio, Texas.

Early Thursday the activity along the stationary front continued to bring rain to parts of Texas and from the central Plains into the Tennessee Valley. Nearly 2.50 in. of rain soaked Wink, Texas in only six hours.

A cold front curving from northeastern Quebec through extreme southern Michigan and southwestern Iowa to southwestern Texas on Friday, triggered moderate to heavy rains in southeastern Texas and in the central U.S. Nearly 5.00 in. of rain soaked McAllen, Texas.

The showers in the central U.S. and extreme southern Texas decreased overnight, and on Saturday only light showers were scattered through the southern half of the Plains, the lower half of the Mississippi Valley and the southern half of the Ohio Valley.

Some showers and thundershowers occurred over the southern Plains, southern Rockies, western Gulf and middle Mississippi Valley on Sunday.

**TEMPERATURE:** Temperatures averaged 4 to 8° below normal last week in the Nation's eastern third, and 1 to 4° below normal in portions of Oregon, Idaho, California and Nevada.

Warmer than normal areas included southwestern Iowa and Nebraska where Omaha averaged 10° above normal for the week. In the Southwest, the intersecting areas of California, Arizona and Nevada

averaged 4° above normal. And in the Nation's midsection many areas reported temperatures averaging 4 to 9° above normal.

Monday, record morning low temperatures for this early in the autumn were set near the central Atlantic Coast and in the Great Lakes Region. These included: Raleigh, N.C., 26°; Wilmington, Del., 25°; Atlantic City, N.J., 27°; Toledo, Ohio, 16°; and Detroit, Mich., 17°.

The record late October cold spell continued in the southern and middle Atlantic Coast States on Tuesday. Record lows were recorded in the following cities: Augusta, Ga., 27°; Charleston, S.C., 33°.

Morning low temperatures dipped into the 20's in sections of the upper Plains and Mississippi Valley on Wednesday. International Falls, Minn. reported a chilly 25° and Aberdeen, S.D. plummeted to 26°. The mornings' chilliest reading was 18° at Kalispell, Mont.

Thursday, a large high moved over northern Montana bringing fair skies and cool temperatures. Afternoon readings were in the 40's and 50's for much of the northern Rockies and Plains.

The high pressure area now located over western South Dakota, continued to pull colder air into the northern half of the Rockies, the upper Plains and the upper Great Lakes on Friday. Most morning temperatures fell into the 20's and 30's.

Saturday, the northern plains and Mississippi Valley reported the chilliest morning temperatures mostly in the 20's and 30's.

Pre-dawn freezing temperatures occurred near the northern U.S. border and as far south as Alamosa, Colo. on Sunday.

**NATIONAL AGRICULTURAL SUMMARY**

For the Week of October 21-27

**HIGHLIGHTS:** Row crop harvesting made excellent progress in all major areas except the Southern Great Plains where rain delayed harvest activity.

Nationwide, corn for grain was 49% harvested on October 27th, ahead of both 1973 and normal. The Nation's soybean crop was about 61% harvested on the 27th, trailing the 1973 pace but ahead of normal progress.

Winter wheat seeding advanced rapidly in the eastern Corn Belt but progress was limited by rain in the Southern Great Plains.

**SMALL GRAINS:** Rain in the Southern Great Plains slowed seeding of fall grains, but aided germination and growth.

Condition of winter wheat was mostly good in Texas and Oklahoma. In Kansas there was considerable variation depending on the moisture supply. Dry conditions still prevailed in much of the Northern Plains and Pacific Northwest.

Winter wheat seeding advanced to 90% complete in Texas versus 91% in 1973 and normal, 95% complete in Kansas and 96% complete in Oklahoma. Wheat seeding in the eastern Corn Belt made good progress, with Ohio 95% done, Illinois 85% and Indiana 75% done.

Emergence of early seeded grain in Oregon and Washington was quite variable. Many farmers continue to seed in dry soil.

**CORN:** Corn harvesting progressed well in most major corn States as good drying conditions continued over much of the Corn Belt and Southeastern States. Nationally, the corn for grain harvest almost reached the midway mark, with 49% harvested by October 27th, ahead of the 44% complete in 1973 and 46% normally harvested. The Corn Belt crop advanced 16 points from the previous week to 45% complete which was also ahead of the 1973 and normal progress. Corn in the South Central States was about 63% picked, behind both last year and normal, while progress in the South Atlantic States was at the 1973 level of 77% harvested and continued much ahead of normal.

Harvest was 35% done in Illinois, 37% in Iowa and the Corn Belt progress ranged from 19% complete in Michigan to 86% in South Dakota. The high moisture content was slowing harvest in Wisconsin, Michigan and Tennessee while rain in the Southern Great Plains stopped activity in most areas.

**COTTON:** Cotton harvesting rolled on at a rapid pace in most major States under nearly ideal weather; however, cool wet conditions slowed harvest in Texas.

Cotton in the 11-major producing Southern States reached 31% harvested, slightly behind last year's level and behind normal in many of these States.

Harvest was 56% complete in South Carolina, 50% in Georgia, 45% in Louisiana, 43% in Missouri, 40% in Alabama, 36% in Mississippi and 30% in Arkansas. Texas's cotton was 28% picked versus 22% in 1973 and the average 25%.

In the West, rain interrupted harvest activity in New Mexico and Arizona, while harvest continued in full swing in California, where second picking was underway in some fields.

**SOYBEANS:** Nearly ideal autumn weather permitted excellent soybean harvesting progress. By October 27, about 61% of the Nation's soybean crop was harvested, trailing last year's pace, but ahead of the normal progress.

Corn Belt farmers harvested one-fifth of their soybean crop last week and pushed harvesting to 78% complete, behind last year's 81% complete but ahead of the usual average of 75% complete for this time.

Soybean harvesting progress was ahead of normal in nine of the 12 North Central States. Illinois soybeans were 80% harvested, well behind the 90% a year ago and 88% usually harvested. Iowa beans were 88% combined, lagging last year's pace but far ahead of the 76% usually harvested. Harvest was 90% complete in Ohio and Nebraska, 99% in Minnesota and virtually over in South Dakota. Harvesting was least advanced in Kansas with only 30% of the crop finished.

In the South, harvest was 20% complete in Arkansas, 27% in Mississippi, and 50% in Louisiana.

**OTHER CROPS:** Harvest of sorghum grain made slow gains in Texas and Oklahoma as cool, wet weather delayed activity in most areas. The Texas harvest was 63% complete, 75% in Nebraska, while only 25% done in Kansas compared with the average 50%.

Peanut digging was 95% wrapped up in Virginia and over 83% combined, in North Carolina 96% dug and 87% threshed. The Texas crop was 57% harvested, much behind last year and average.

The potato harvest in Maine was delayed by heavily frosted field conditions. Harvest in southern and eastern Idaho was slowed by rain but statewide harvest was 95% complete.

Sugarbeet lifting continued active in California, 75% harvested in Colorado, and nearing completion in North Dakota.

**FRUITS AND NUTS:** Apple harvest moved into the final stages in most States.

Grape harvesting continued active in California, Tokay harvest nearing the finish.

The Navel orange crop was developing well in California with volume movement expected about mid-November. In Florida, citrus tree and fruit conditions were excellent. Citrus was being harvested on a limited scale in Texas as the crop continued to size and color well.

**VEGETABLES:** Harvest of hardy vegetables continued in a declining volume in the Northern States. Supplies of Florida and Texas vegetables were increasing and crops in most areas were in good condition. Harvest of mixed vegetables continued in good volume in California. Vegetable planting was still underway in the Lower Rio Grande Valley.

**PASTURES AND LIVESTOCK:** Pastures and range conditions continued to decline in nearly all areas except the Southern Great Plains, where shower activity provided excellent moisture for late fall and early winter growth. Wheat pasture prospects were good in Texas and Oklahoma and variable in Kansas. Dry range conditions, short stock water, high fire hazard and slow forage growth on winter ranges were common in Oregon. Livestock continued in mostly good condition in most areas.

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., Oct. 27, 1974

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 . . .	58	- 2	0	-. 6	La.Baton Rouge . . .	65	- 1	0	-. 6	Youngstown . . .	48	- 2	.1	-. 6
Mobile . . . . .	62	- 4	0	-. 4	Lake Charles . . .	67	0	0	-. 8	OKLA.Okla. City . . .	62	+ 3	1.2	+ .7
Montgomery . . . .	58	- 5	0	-. 4	New Orleans . . . .	64	- 3	0	-. 4	Tulsa . . . . .	63	+ 3	.8	+ .2
ALASKA.Anchorage . .	---	---	---	---	Shreveport . . . . .	64	- 1	T	-. 7	OREG.Astoria . . . .	52	+ 1	.9	-. 9
Barrow . . . . .	---	---	---	---	MAINE.Caribou . . .	35	- 6	.1	-. 7	Burns . . . . .	43	- 1	.7	-. 2
Fairbanks . . . . .	16	- 3	.1	0	Portland . . . . .	42	- 5	T	-. 8	Medford . . . . .	51	- 1	.4	-. 2
Juneau . . . . .	45	+ 6	6.0	+4.3	MD.Baltimore . . . .	52	- 2	T	-. 6	Pendleton . . . . .	53	+ 4	T	-. 3
Kodiak . . . . .	---	---	---	---	MASS.Boston . . . .	48	- 5	.1	-. 6	Portland . . . . .	53	+ 2	.3	-. 7
Nome . . . . .	28	+ 3	T	-. 3	Chatham . . . . .	46	- 1	.2	-. 6	Salem . . . . .	51	0	.4	-. 7
ARIZ.Flagstaff . . .	46	+ 2	.9	+ .6	MICH.Alpena . . . . .	43	- 2	.1	-. 3	PA.Allentown . . . .	46	- 5	.1	-. 5
Phoenix . . . . .	73	+ 4	.5	+ .4	Detroit . . . . .	48	- 2	T	-. 6	Erie . . . . .	45	- 4	.1	-. 6
Tucson . . . . .	66	- 1	.4	+ .3	Flint . . . . .	48	0	0	-. 5	Harrisburg . . . . .	52	- 1	T	-. 6
Winslow . . . . .	54	0	.6	+ .5	Grand Rapids . . . .	46	- 3	T	-. 6	Philadelphia . . . .	51	- 4	T	-. 6
Yuma . . . . .	73	0	T	-. 1	Houghton Lake . . . .	44	- 1	T	-. 6	Pittsburgh . . . . .	51	+ 1	.1	-. 5
ARK.Fort Smith . . .	61	+ 1	T	-. 8	Lansing . . . . .	47	- 2	T	-. 5	Scranton . . . . .	45	- 5	.2	-. 4
Little Rock . . . .	60	+ 1	T	-. 7	Marquette . . . . .	48	+ 2	.1	-. 4	R.I.Providence . . . .	46	- 5	.1	-. 7
CALIF.Bakersfield . .	66	+ 2	0	- 1	Muskegon . . . . .	47	- 2	T	-. 6	S.C.Charleston . . . .	58	- 6	0	-. 6
Eureka . . . . .	54	0	.8	-. 1	S. Ste. Marie . . . .	40	- 3	.3	-. 3	Columbia . . . . .	56	- 5	0	-. 5
Fresno . . . . .	62	+ 1	.1	0	MINN.Duluth . . . . .	46	+ 4	0	-. 5	Greenville . . . . .	56	- 3	0	-. 7
Los Angeles . . . . .	65	- 2	.5	+ .4	Internat'l Falls . . .	46	+ 6	0	-. 3	S.D.Aberdeen . . . . .	51	+ 7	T	-. 2
Red Bluff . . . . .	61	- 1	1.3	+ .9	Minneapolis . . . . .	51	- 5	0	-. 4	Huron . . . . .	51	+ 5	0	-. 3
San Diego . . . . .	65	0	T	-. 1	Rochester . . . . .	51	+ 5	0	-. 4	Rapid City . . . . .	52	+ 5	T	-. 2
San Francisco . . . .	60	0	.2	-. 1	St. Cloud . . . . .	48	+ 4	0	-. 4	Sioux Falls . . . . .	53	+ 6	0	-. 3
Stockton . . . . .	61	0	.2	0	MISS.Jackson . . . . .	62	- 1	0	-. 5	TENN.Chattanooga . . .	53	- 5	T	-. 6
COLO.Denver . . . . .	50	+ 1	.1	- 1	Meridian . . . . .	62	0	0	-. 5	Knoxville . . . . .	56	- 2	0	-. 6
Grand Junction . . . .	56	+ 5	.1	-. 1	MO.Columbia . . . . .	59	+ 4	T	-. 7	Memphis . . . . .	61	+ 1	0	-. 6
Pueblo . . . . .	55	+ 4	T	-. 2	Kansas City . . . . .	60	+ 5	.1	-. 5	Nashville . . . . .	58	0	T	-. 5
CONN.Bridgeport . . .	50	- 4	.2	-. 5	St. Louis . . . . .	58	+ 2	T	-. 6	TEX.Abilene . . . . .	63	0	.9	+ .4
Hartford . . . . .	44	- 6	.2	-. 5	Springfield . . . . .	59	+ 3	.6	-. 1	Amarillo . . . . .	57	+ 1	.9	+ .5
D.C.Washington . . . .	54	- 3	T	-. 6	MONT.Billings . . . .	48	+ 2	T	-. 2	Austin . . . . .	67	0	1.0	+ .4
FLA.Apalachicola . . .	66	- 2	0	-. 4	Glasgow . . . . .	48	+ 5	0	-. 1	Beaumont . . . . .	67	0	0	-. 8
Daytona Beach . . . .	68	- 3	T	-1.1	Great Falls . . . . .	50	+ 5	.1	0	Brownsville . . . . .	75	+ 1	2.2	+1.6
Ft. Myers . . . . .	72	- 3	0	-. 7	Havre . . . . .	45	+ 2	0	-. 1	Corpus Christi . . . .	74	+ 2	2.2	+1.7
Jacksonville . . . . .	62	- 6	0	-. 8	Helena . . . . .	43	- 1	.1	0	Del Rio . . . . .	67	- 1	2.7	+2.3
Key West . . . . .	77	- 1	T	-1.1	Kalispell . . . . .	40	+ 1	.1	-. 2	El Paso . . . . .	62	+ 1	.5	+ .4
Lakeland . . . . .	69	- 3	0	-. 5	Miles City . . . . .	47	+ 2	0	-. 1	Fort Worth . . . . .	67	+ 2	.1	-. 5
Miami . . . . .	76	0	.5	-1.1	Missoula . . . . .	43	+ 2	T	-. 2	Galveston . . . . .	71	0	T	-. 5
Orlando . . . . .	70	- 3	T	-. 7	NEBR.Grand Island . .	57	+ 7	T	-. 2	Houston . . . . .	70	+ 2	T	-. 9
Tallahassee . . . . .	60	- 7	0	-. 5	Lincoln . . . . .	59	+ 8	T	-. 3	Lubbock . . . . .	59	+ 1	1.5	+1.1
Tampa . . . . .	70	- 3	0	-. 4	Norfolk . . . . .	56	+ 7	T	-. 2	Midland . . . . .	63	0	1.6	+1.3
W.Palm Beach . . . . .	75	- 1	.5	-1.2	N.Platte . . . . .	55	+ 7	.1	-. 1	San Angelo . . . . .	65	+ 1	2.4	+2.1
GA.Atlanta . . . . .	58	- 1	0	-. 6	Omaha . . . . .	61	+10	T	-. 3	San Antonio . . . . .	67	- 1	2.9	+2.3
Augusta . . . . .	55	- 6	0	-. 4	Valentine . . . . .	53	+ 7	T	-. 2	Victoria . . . . .	73	+ 3	.2	-. 5
Macon . . . . .	59	- 4	0	-. 5	NEV.Ely . . . . .	40	- 3	.1	0	Waco . . . . .	68	+ 2	.3	-. 2
Savannah . . . . .	61	- 3	0	-. 5	Las Vegas . . . . .	67	+ 4	.2	+ .1	Wichita Falls . . . . .	64	+ 1	.9	+ .4
HAWAII.Hilo . . . . .	77	+ 2	3.4	+ .6	Reno . . . . .	45	- 3	T	-. 1	UTAH.Blanding . . . . .	50	+ 2	2.3	+2.0
Honolulu . . . . .	80	+ 2	1.3	+ .9	Winnemucca . . . . .	41	- 4	T	-. 2	Salt Lake City . . . .	52	+ 3	.6	+ .3
Kahului . . . . .	79	+ 2	1.0	+ .7	N.H.Concord . . . . .	39	- 8	.1	-. 5	N.J.Atlantic City . . .	48	- 6	T	-. 9
Lihue . . . . .	80	+ 3	.2	-. 8	Trenton . . . . .	48	- 6	T	-. 9	VT.Burlington . . . . .	41	- 5	T	-. 6
IDAHO.Boise . . . . .	48	- 1	.8	+ .6	N.MEX.Albuquerque . .	56	+ 1	.7	+ .6	VA.Lynchburg . . . . .	52	- 3	T	-. 6
Lewiston . . . . .	50	+ 1	T	-. 3	Roswell . . . . .	58	+ 2	1.5	+1.2	Norfolk . . . . .	54	- 5	0	-. 6
Pocatello . . . . .	45	0	.6	+ .4	N.Y.Albany . . . . .	41	- 8	T	-. 6	Richmond . . . . .	52	- 4	T	-. 7
ILL.Cairo . . . . .	61	+ 3	T	-. 6	Binghamton . . . . .	43	- 5	.1	-. 6	Roanoke . . . . .	53	- 2	0	-. 7
Chicago . . . . .	54	+ 2	T	-. 6	Buffalo . . . . .	46	- 3	.4	-. 3	WASH.Colville . . . . .	45	+ 2	T	-. 4
Moline . . . . .	55	+ 4	T	-. 5	New York . . . . .	51	- 4	.1	-. 6	Omak . . . . .	45	+ 2	T	-. 3
Peoria . . . . .	54	+ 2	.1	-. 4	Rochester . . . . .	44	- 5	.1	-. 5	Quillayute . . . . .	50	+ 1	1.6	+ .7
Rockford . . . . .	52	+ 3	0	-. 6	Syracuse . . . . .	44	- 6	.1	-. 6	Seattle-Tacoma . . . .	50	0	.9	-. 1
Springfield . . . . .	57	+ 4	T	-. 6	N.C.Asheville . . . . .	52	- 2	0	-. 7	Spokane . . . . .	45	+ 1	.1	-. 3
IND.Evansville . . . .	55	0	T	-. 6	Charlotte . . . . .	55	- 4	0	-. 6	Walla Walla . . . . .	52	+ 1	0	-. 4
Ft. Wayne . . . . .	50	0	.1	-. 5	Greensboro . . . . .	55	- 1	0	-. 6	Yakima . . . . .	48	+ 1	T	-. 2
Indianapolis . . . . .	52	0	.2	-. 4	Hatteras . . . . .	55	- 8	0	-1.1	W.Va.Beckley . . . . .	49	- 1	T	-. 6
South Bend . . . . .	53	+ 3	.2	-. 5	Raleigh . . . . .	53	- 4	0	-. 6	Charleston . . . . .	50	- 4	.2	-. 4
IOWA.Burlington . . . .	57	+ 5	T	-. 6	Wilmington . . . . .	58	- 5	0	-. 6	Huntington . . . . .	52	- 2	.1	-. 4
Des Moines . . . . .	59	+ 8	T	-. 4	N.DAK.Bismarck . . . .	44	+ 1	0	-. 1	Parkersburg . . . . .	51	- 3	.2	-. 3
Dubuque . . . . .	53	+ 5	T	-. 6	Fargo . . . . .	49	+ 6	0	-. 2	WIS.Green Bay . . . . .	45	- 1	0	-. 4
Sioux City . . . . .	57	+ 7	T	-. 3	Williston . . . . .	44	+ 2	0	-. 1	La Crosse . . . . .	51	+ 3	0	-. 4
KANS.Concordia . . . .	60	+ 6	T	-. 3	OHIO.Akron-Canton . .	48	- 2	.2	-. 3	Madison . . . . .	50	+ 3	T	-. 4
Dodge City . . . . .	60	+ 6	.3	0	Cincinnati . . . . .	52	- 2	T	-. 5	Milwaukee . . . . .	49	+ 1	T	-. 4
Goodland . . . . .	54	+ 5	T	-. 2	Cleveland . . . . .	49	- 2	.1	-. 5	WYO.Casper . . . . .	46	+ 2	.1	-. 1
Topeka . . . . .	62	+ 8	.1	-. 4	Columbus . . . . .	50	- 1	.2	-. 2	Cheyenne . . . . .	48	+ 3	.2	0
Wichita . . . . .	62	+ 6	1.6	+1.1	Dayton . . . . .	51	- 1	.2	-. 3	Lander . . . . .	43	0	.7	+ .4
KY.Lexington . . . . .	53	- 1	.1	-. 4	Toledo . . . . .	47	- 3	.1	-. 4	Sheridan . . . . .	47	+ 2	0	-. 2
Louisville . . . . .	53	- 2	.1	-. 4						P.R.San Juan . . . . .	82	+ 2	6.7	+5.5

Based on 1941 - 70 normals

## CONDENSED STATE SUMMARIES

The Bulletin capsulizes nationally important weather and crop conditions. Every Monday SRS publishes more detailed data in State Weekly Weather and Crop Bulletins in cooperation with the National Weather Service, NOAA. Voluntary weather observers, crop reporters, and county extension agents contribute weekly observations for these reports.

**ALABAMA:** Another dry week with mostly clear or hazy conditions. Stagnant air continued to produce sunny, mild days and cool nights. Temperatures warmed toward weekend with highs in low 80's.

Harvest main activity on most farms. Cottonfarmers anxious to get crop out of field. Harvest was 40% complete, 34% in 1973. Corn harvest made favorable advancement and was 66% complete compared with 59% last year. Almost all soybeans mature, nearly 40% combined, about 12 points ahead of 1973. Only few peanuts remained to be dug. Inspections were 235,355 tons through October 25th. Small grain planting limited as farmers await rain before seeding additional acreage. Planting about 66% complete. Germination of recently planted seed slowed by dry weather many localities.

**ARIZONA:** General showers first half, scattered showers end week. Amounts varied widely. Temperatures normal to 4° above.

Cotton harvest slowed by rain. Grain sorghum harvest active Yuma, increasing central, eastern areas. Sugarbeets satisfactory progress Salt River Valley, Yuma. Alfalfa hay activities normal. Alfalfa seed harvest near completion, Yuma. Lettuce good progress Yuma, Pima Counties. Cabbage, broccoli fine shape. Thinning, insect controls continue fall lettuce, plantings for spring harvest active. Lemon harvest Maricopa, Yuma Counties. Grapefruit harvest to start, Yuma. Range, pasture condition fair except southwestern. Rainshowers improve water supplies, forage. Cattle, calves and sheep, fair to good condition.

**ARKANSAS:** Near normal temperatures and very dry weather. Extremes: 82 and 29°. Warming early week, brief cooling late in week, warming again on weekend.

Warm, sunny days accelerated harvest. Soil moisture adequate. Cotton bolls opening fast. Middle and top bolls opening slowly. Defoliating continues. Gins keeping up with work load. Cotton 30% picked compared with over 45% 1973. Bolls 70% open compared with almost 90% 1973. Rice 90% harvested. Soybean harvest 20% complete, beans small. Mid-season varieties being harvested. Wheat being seeded in harvested soybean and rice fields. Sorghum harvest 80% complete. Hay cutting complete. Pasture providing adequate forage.

**CALIFORNIA:** Generally fair, warm weather continued over inland areas some low cloudiness along coastal sections. Precipitation limited to few scattered showers southern Sierra Nevada, San Joaquin Valley 19th, 20th and over south 22d, 25th. Temperatures began several degrees above normal inland areas, lowered to near normal by week's end. Weekly averages near normal along coast few degrees above inland areas.

Small grain planting and sugarbeet digging active. Corn, milo harvest near completion. Cotton harvest full swing, second picking underway some fields, shredding, and discing underway. Dry bean harvest continues, rice harvest almost complete. Alfalfa cutting light. Wine grape harvest continues active, sugar-acid ratios improved favorable weather. Today harvest nearing finish, emperor harvest active. Apple harvest cleanup stages. Olive picking active. Pomegranate, persimmon harvest continue, avocado

harvest seasonally normal. Date picking continues, good quality. Navel orange harvest Edison area, crop developing well, volume movement expected mid-November.

Broccoli, cauliflower continue heavy. Artichokes and brussels sprouts continue. Carrots continue Central Coast, Hemet. Celery active Santa Maria, Salinas. Lettuce continues Westside, quality below normal. Bell peppers continue Central Coast, San Joaquin Valley. Fall potatoes nearly complete, sweetpotato continues Livingston. Market tomatoes continue Merced, South Coast.

Movement livestock from mountain pastures drawing to a close. Sheep San Joaquin Valley moved onto alfalfa, corn stubble. Cattle grazing corn, rice stubble. Supplemental feeding necessary most areas. Beekeepers moving hives to winter holding areas. Egg production north coastal region holding steady. Water supplies most areas adequate, some dry spots.

**COLORADO:** Heavy precipitation southwest and central. San Juan mountains and lower elevations extreme southwest over 2.00 in. Local amounts over 1.00 in. Empire-Conifer area and Central Mountains. Elsewhere, light to moderate precipitation. Temperatures averaged 1 to 6° above normal. Daily maxima readings 50's to 70's except 40's northeast on 22d.

Harvest progress excellent. Corn grain 54% harvested compared 5-year average 28%. Sorghum 30% combined, 72% ripe. Sugarbeets 73% harvested, 5-year average 49%. Dry beans 97% threshed. Fall potato harvest complete. Winter wheat 97% seeded, 82% emerged. Replanting scattered fields southeast due poor stands. Winter barley essentially planted, 89% emerged. Condition fall seeded grains generally good. Livestock good condition. Pasturing crop aftermath where harvested.

**FLORIDA:** Cool and dry through period. Temperature below normal. Rainfall restricted to along and inland from East Coast.

Open weather prevailed. Soil moisture mostly short. Corn, peanut harvest virtually over. Soybean harvest in full swing, yields good. Cotton picking making progress. Hay cutting nearing completion. Sugarcane growing well. Small grain planting continues. Pastures mostly fair condition. Cattle and calves fair to good condition. Citrus tree and fruit condition excellent, soil moisture short some areas, growers starting to irrigate older groves. Some leaf curl and wilt, harvest active. Sweet corn volume good, cucumbers moderate, eggplant and squash available, escarole, endive, and lettuce shipments underway. Light volume snap beans, tomatoes moving.

**GEORGIA:** Weather dry through period with no rain reported. Temperatures averaged 5 to 9° below normal. Coldest at midweek, new record lows for date established many localities, frost as far south as central Georgia.

Soil moisture very short eastern half, mostly short western half. Weather favorable for harvest operations, detrimental for fall seedings. Cotton harvest reached mid-point, frost-free southeast areas still defoliating. Corn harvest 66% complete. Soybean harvest received more atten-

tion, 21% complete. Harvest of excellent peanut crop winding down, almost complete. Small grain seedings 44% complete, delayed by dry soils, earlier plantings need rain. Pastures mostly fair, declining rapidly. Cattle remained good. Southern area farmers battling fire-ants. Pecan harvest spread slowly northward, only 8% gathered.

**HAWAII:** Most areas received heavy rains on October 26th and 27th. Island of Hawaii, over 3.00 in. of rain brought partial relief to previously dry areas.

Pastures and crops benefitted by rains. Vegetables in adequate supply. Bananas plentiful, papayas becoming less. Cattle condition fair to good. Sugar harvesting active, pineapples in very short supply.

**IDAHO:** Weather changed drastically first of week. Maxima temperatures dropped 10 to 25° to average in 70's with minima in upper 20's and low 30's. Southwest and east received from 0.50 in. to more than 1.00 in. of rain with snow at higher elevations and in southeast areas. Ashton reported 8.00 in. of snow, Teton 4.00 in. and American Falls 2.00 in. North remained generally fair and sunny until end of week.

Rains slowed harvesting southern and eastern areas. Continued dry weather north slowed completion of fall grain seeding, retarding germination and growth of grain. Potato harvest 95% complete. Southwestern and east at clean-up stage, south-central 10% remaining for harvest. Peak activity for sugarbeet harvest with 50% acreage lifted. Apple picking slowed by rains, should finish early November. Winter wheat and winter barley 85% seeded, less than 50% emerged. Rains southern and eastern areas improved moisture supplies.

**ILLINOIS:** Temperatures normal to 5° above normal. Precipitation light ranging 0 to 0.33 in.

Corn harvest 35% complete, 44% 1973, 3-year (1971-73) average 47%. Harvest most advanced central, slowest northwest. Soybean harvest 80% complete, 90% 1973, average 88%. Harvest most advanced east, slowest southeast. Seeding 1975 winter wheat 85% complete, 90% both 1973 and average. Grain sorghum harvest 30% complete. Plowing 1975 corn & soybeans 20% complete, 24% 1973, average 25%. Pastures fair to good. Soil moisture 29% short, 69% adequate, 2% surplus. Fieldwork: 6.5 days suitable.

**INDIANA:** Showers 1 or 2 days with amounts up to 0.50 in. Warm week with temperatures 2° above normal. Extremes: 26 to 78°.

Fieldwork averaged 6 days. Topsoil and subsoil short to mostly adequate. Corn 25% harvested, 35% average, 40% in 1973. Soybeans 70% combined, 65% average, 80% in 1973. Wheat 75% seeded, same as average, 90% in 1973. Wheat 45% emerged. Wheat stands fair to mostly good.

**IOWA:** Five sunny days and generally dry air helped temperatures average 10° above normal. Widely scattered light showers generally under 0.10 in. Precipitation deficit now more than two months long.

Ideal weather speeds harvesting. Fieldwork 6.9 days suitable, 1968-72 average 4.8 days. Corn for grain, 37% harvested average 38%. Pop-corn harvested 60%. Soybean acreage harvested 88%, average 76%. Grain sorghum harvested 56%, average 59%. Fall plowing 21% complete. Topsoil moisture 57% short, 43% adequate, subsoil moisture 48% short, 52% adequate. Monday night

the 28th rains not accounted for in moisture data.

**KANSAS:** Considerable cloudiness. Mild temperatures averaged 5° to 8° above normal. Precipitation late in week, scattered and variable; less than 0.10 in. Extreme west and extreme north to over 1.00 in. portions of south.

Warm temperatures and scattered showers improved wheat stands. Wheat condition good overall, considerable variation, over 95% seeded. Sorghum grain 25% harvested, average 50%. Corn 60% harvested, average 55%. Soybeans 30% harvested, average 65%. Sugarbeet harvest in full swing. Fall pasture short.

**KENTUCKY:** Near normal temperatures. Rainfall light with weekly totals less than 0.10 in.

Good week for outdoor work, rapid progress corn and soybean harvest. Corn 57% harvested, 66% 1973. Soybeans 41% combined vs. 56% in 1973. Burley curing fast, 7% already stripped, another 35% ready for stripping. Still firing dark types. Farmers treating plant beds for next year's crop, 75% using methyl bromide. Winter wheat seeding 55% completed, week later than normal. Fall pastures excellent.

**LOUISIANA:** Temperatures normal to above except extreme southeast and portions of northeast. Mild days, cool nights. Temperature extremes: 89° Jennings 22d, 39° Winnfield 21st. Precipitation scattered traces.

Soil moisture short south, mostly adequate elsewhere. Fieldwork possible 6.2 days. Harvesting cotton, soybeans, sugarcane main activities. Cotton 45% harvested, 20% 1973; 55% 1972. Soybeans over 50% combined, 30% 1973; 60% 1972. Yields good. Sugarcane harvest increasing, 10% cut, sucrose content good. New plantings need moisture. Sweetpotato harvest slowed due to dry conditions. Small grains need moisture. Pastures average. Livestock fair to good.

**MARYLAND AND DELAWARE:** Temperatures 5 to 10° below normal. Highs mid-60's to low 70's, lows low 20's to low 30's. Garrett County range 18 to 56°. Precipitation very light, most stations zero, 0.02 to 0.20 in. western Maryland. Killing frost several areas, light snow western areas.

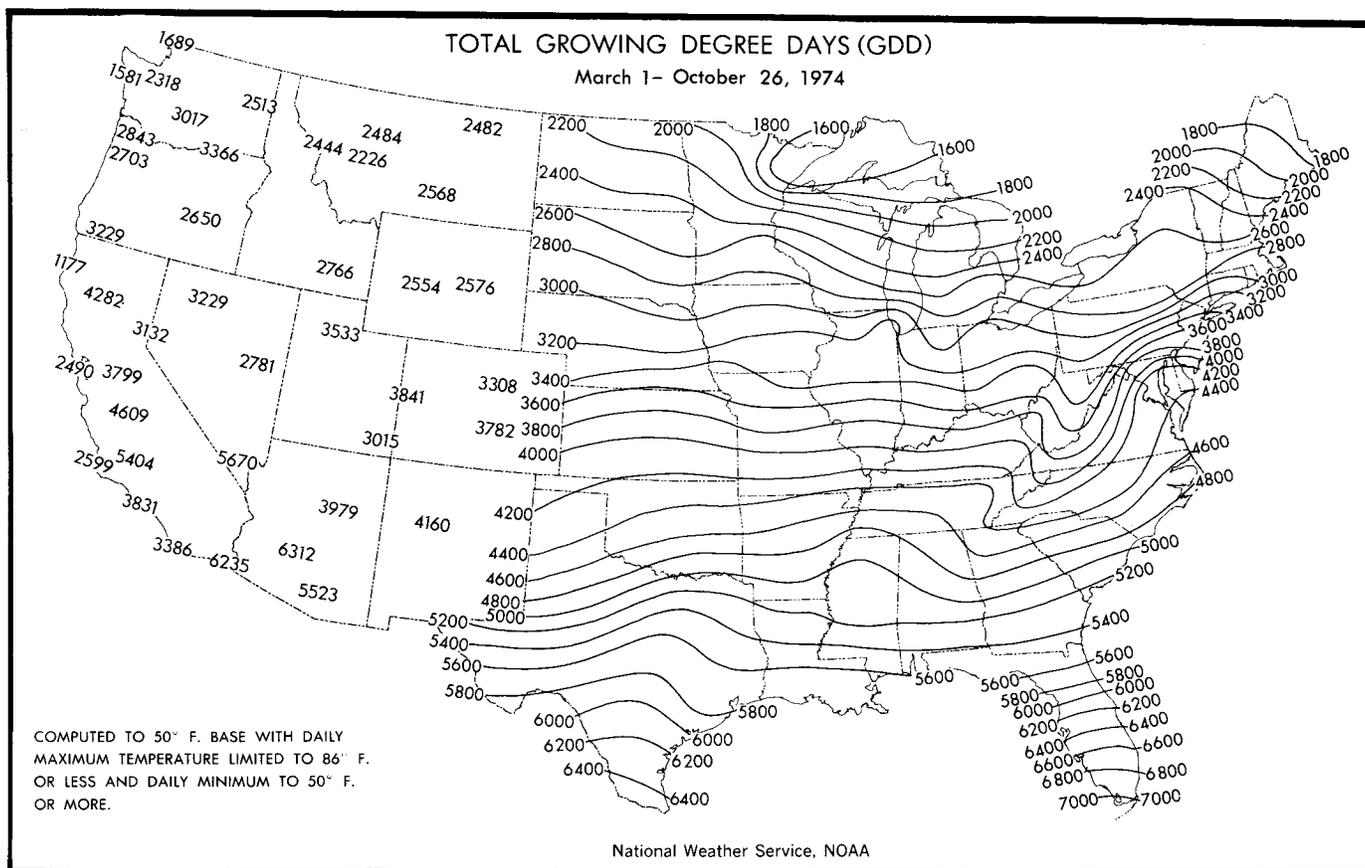
Excellent week for harvest. Corn harvest nearly done south, well along north. Soybean combining active all areas. Harvest late apples continues. Sweetpotato digging well along. Tobacco stripping started.

**MICHIGAN:** Temperatures averaged about normal. Precipitation totaled 0.10 to 0.30 in. extreme northern Lower and eastern Upper Peninsula; elsewhere less than 0.10 in. except extreme southern Lower with 0.10 to 0.20 in.

Soybean, sugarbeet and potato harvests showed rapid progress. Fieldwork averaged 5.8 days. Soil moisture short south, mostly adequate elsewhere. Grain corn 19% harvested, 52% 1973, moisture content remains high. Soybeans 78% harvested, ahead of 74% 1973. Dry beans 96% harvested, 100% 1973. Winter wheat 98% planted. Sugarbeets 73% dug, 65% 1973. Potatoes 96% harvested, 95% 1973. Fall plowing 25% completed. Apples 90% picked, 95% 1973. Harvesting some late cauliflower and cabbage.

**MINNESOTA:** Temperatures averaged 3 to 6° above normal; near normal extreme east. No precipitation reported.

Favorable dry weather continued to aid fall



harvest. Soybean combining 99% completed, 1973 90%, average 80%. Corn harvest 78% completed, 1973 50%, average 47%. Potatoes nearly all dug, average progress 96%. Sunflowers 81% combined, 1973 86%. Soil moisture short to very short except mostly adequate northern counties. General rains starting October 28th partly relieving dry conditions.

**MISSISSIPPI:** The period was rain free with temperatures generally 3 to 7° subnormal. Extremes: 85 and 33°. Soil moisture mostly adequate in north, mostly short south. Fieldwork: 6.1 days suitable. Cotton 58% bolls open but not harvested, 36% harvested, normal 48%, bolls open but not harvested, 51% harvested, soybeans 38% shedding, 31% mature, 27% harvested, normal 47% mature, 33% harvested. Rice 98% harvested, normal 85% harvested. All major crops in fair to good condition.

**MISSOURI:** Temperatures several degrees above normal west, north, normal southeast. Largest departure from normal was northwest prairie with 5° above normal. Precipitation light with only two reports of around 0.50 in. Average for all zones was much less than 0.25 in.

Fieldwork: 5 days suitable. Corn 53% harvested, 31% 1973, 46% five-year average. Soybeans 81% mature, 45% harvested, 1973 and average 52% harvested. Grain sorghum 46% harvested, 49% 1973, 54% average. Cotton 43% harvested, 50% 1973, 54% average. Fall seeding 66% completed, 56% 1973, 68% average. Soil moisture supply adequate, pastures fair to good condition.

**MONTANA:** Above normal temperatures and below normal precipitation. Significant precipitation southwest on 21st, with spotty smaller amounts west, south central. Dry remainder of week, with highs in 60's and low 70's.

Harvest of crops virtually complete. Livestock care and marketing main activities. About 85% cattle and calves and 90% sheep and lambs moved from summer pastures. Soil moisture generally short. Winter wheat fair to good.

**NEBRASKA:** Temperatures above normal. Precipitation below.

Fieldwork: 7.0 days suitable. Topsoil moisture supplies short 99%. Subsoil moisture supplies short 99%. Excellent progress harvesting crops. Corn harvest 65% complete, normal 40%, 25% year ago. Moisture content 18%, last year 22%. Sorghum 75% harvested, normal 60%, 1973 75%. Moisture content 19%, year ago 16%. Soybeans 90% harvested, normal 85%, 1973 85%. Moisture content 11%, last year 13%. Wheat condition 39% poor, 49% fair, 10% good, 2% excellent. Range and pasture feed supplies short 98%. Culling cows.

**NEVADA:** Rain and snow fell northeast midweek and precipitation began west and south at weekend. Yucca reported most precipitation with 0.71 in. Average temperatures ranged from 4° below normal northwest to 5° above southeast. Temperature extremes: 14° McDermitt, 92° Logandale.

A few seventh cuttings alfalfa hay obtained southern valleys. Potato harvest nearing completion main areas. Planting winter grains continued. Livestock movement light.

**NEW ENGLAND:** Generally fine weather with below normal precipitation. Measurable precipitation Friday. Amounts averaged under 0.10 in. northern and to 0.20 in. southern New England.

Potato harvest wrap-up delayed by heavily frosted field conditions and is proceeding as weather permits. Cranberry harvest essentially complete all areas. Berries are reported excellent quality and color.

**NEW JERSEY:** Dry, mild week. Temperatures 2 to 6° below normal. Extremes: 20° Newton on 23d, 72° Bridgeton on 26th. Statewide precipitation average 0.02 in.

Soil moisture expressed in % of field capacity averaged 95% north, 46% central, and 47% in south. Harvest of hardy vegetables continues in declining volume. A few acres of potatoes and sweetpotatoes remain to be dug. Some late variety apples being picked. Cranberry harvest will finish up this week. Harvest of soybeans and corn for grain active. Preparation and seeding of grains and cover crop continues.

**NEW MEXICO:** Substantial rains. Weekly totals above 1.00 in. many sections, more than 2.50 in. Clovis, Hobbs. Northeast corner remained relatively dry with less than 0.10 in. Temperatures near normal with little day-to-day variation. Moisture mostly adequate. Rains interrupting harvest activity, no killing frosts. Cotton poor to fair, south; open bolls, 50 to 70% southeast, picking increasing. Alfalfa fair, rains slowed cutting, baling 4th cut 90% complete, 5th 50% southeast, 6th started. Sorghum: Irrigated fair; dry poor; 20% harvested. Winter wheat, barley, irrigated corn, good. Broomcorn good, 95% pulled. Lettuce and red chile harvesting, south. Peanuts, sweetpotato harvesting each side. Ranges fair, short winter grass, livestock good.

**NEW YORK:** Temperatures continued to average much below normal. Many stations reported temperatures 2 to 8° below normal. Largest departures were concentrated along eastern and southern shores of Lake Ontario. Watertown was off 8° and Rochester 5°. In upper Hudson Valley, Albany averaged 7° below normal. Precipitation was below normal at most stations. What precipitation did occur fell mainly in extreme west, where Buffalo had 0.35 in., Saranac Lake 0.40 in. of snow.

**NORTH CAROLINA:** Limited precipitation early week. Temperatures 3 to 5° subnormal.

Fieldwork averaged 4.8 days. Soil moisture very short to adequate. Cotton 32% harvested, 1973 47%, average 41%. Corn 83% harvested, 1973 87%, average 57%. Soybeans 17% harvested, 1973 22%. Peanuts 96% dug, 1973 99%, average 61%. Peanuts 87% threshed, 1973 96%. Apples 95% harvested, 1973 83%, average 87%. Sweetpotatoes 79% dug, 1973 80%. Sorghum grain 73% harvested, 1973 68%. Small grains 45% planted, 1973 46%, average 47%. Soybean and pasture conditions fair to good. Labor supplies short to adequate.

**NORTH DAKOTA:** Temperatures above normal all divisions, ranging from 9° northwest and west central to 5° above northeast. Extremes: 74° Jamestown, 14° Bismarck. Precipitation subnormal all divisions with no station reporting measurable amounts.

Harvest nearing completion for flax, potatoes, soybeans, dry beans and sugarbeets with very favorable harvest conditions. Sunflowers and corn harvest in full swing. Fall plowing conditions poor because of dry soil. Precipitation needed

before freeze up to replenish soil moisture supplies and help fall sown grains. Pastures furnishing only limited feed.

**OHIO:** Temperatures near normal. High 72° south, low, 16° northwest. Precipitation greatest amount 0.19 in.

Corn 40% harvested, 55% 1973 and normal. Harvest slowed by high moisture content. Soybeans 90% harvested, 85% 1973 and 75% normal. Harvest completed: Sugarbeets 65%, 45% normal; popcorn 50%, 60% normal, winter wheat 95% seeded, 95% in 1973, and 85% normal. Wheat over 50% emerged. Soil moisture: 31% short, 61% adequate, and 8% surplus. Northwest remains short. Fieldwork: 6 days favorable.

**OKLAHOMA:** Temperatures averaged 1° subnormal to 3° above. Precipitation averaged 0.05 in. southeast to 1.54 in. southwest. Weekend mild with rain.

Rains hampered seeding progress small grains. Wheat 96% planted with 85% up to stand. Oats and barley over 90% seeded. Small grain condition mostly good to excellent. Harvest of corn, sorghums, and cotton made only slight advances. Peanuts now 30% harvested compared 14% week ago and 47% in 1973. Soybeans maturing slowly, mostly good condition. Some pecans dropping. Pastures making growth and cattle making gains. Wheat pasture prospects good.

**OREGON:** Rain first of week west and northeast. Temperatures near normal. First day of week 15 to 25° above normal, dropping to seasonal levels by midweek.

Fall land preparation and seeding continues. Emergence fall grains spotty. Shortages of fertilized. Corn for grain, silage-corn, sugarbeet harvests continue. Mint planting underway. Filbert harvest continues, walnut harvest beginning. Cranberry harvest in full swing. Broccoli, cauliflower, carrots, cabbage continue to be harvested. Potato harvest near completion. Ranges dry, stock water short, fire hazard high. Slow forage growth on winter ranges. Cattle market slow showing slight improvement over previous weeks.

**PENNSYLVANIA:** Mostly sunny and dry. Showers on 25th. Temperatures near normal south, 2 to 5° below north central and north. Daily maxima 50's and 60's, minima 20's and 30's. Extremes: 65 and 16°. Precipitation under 0.25 in. all areas.

Picking corn and finishing up apple harvest. Fall finishing plowing. Preparing buildings and equipment for winter.

**PUERTO RICO:** Island average rainfall 5.48 in. or 3.83 in. above normal. Highest weekly total 17.30 in. at Pico Del Esteliquillo. Highest 24-hour total 8.00 in. at Pico Del Esteliquillo. Heavy shower and thundershower activity on 23d with some local flooding occurring in northern, eastern, and western-interior sections. Heavy amounts of over 5 in. of rainfall measured in all divisions. Temperatures averaged 80° on coasts and 73° interior. Extremes: 94 and 58°.

Sugarcane plantations in low lying areas were damaged by local flooding due to heavy rainshowers. Coffee zones reported falling of ripe bean due heavy rains. In tobacco areas soil already prepared for planting was damaged by erosion. Pastures in good condition. Field operations interrupted by continuous rainshowers in food crop zones, causing some damage to new plantings.

**SOUTH CAROLINA:** Temperatures averaged below normal. Long dry period continued with no significant rainfall. On 22d freezing temperatures 6 to 8 hours central sections and low temperatures mid 20's.

Soil moisture shortages worsen. Tobacco marketing practically complete. Cotton suffered very little from cold snap, 56% harvested, same as 1973. Corn harvested 88%, 84% 1973. Soybeans damaged cold snap, but most too mature for significant damage, 100% leaves turning, 91% leaves shedding, 62% mature, 9% harvested, 14% harvested 1973. Sorghums 40% harvested, same year ago. Pastures dying, dry conditions. Harvest fall hays continues. Winter grazing 64% planted, same as 1973. Small grain planting, emergence slowed dry weather. Wheat 15% planted, oats 30%, barley 40%. Fall vegetables damaged by cold weather.

**SOUTH DAKOTA:** Temperatures averaged 2 to 10° above normal. Extremes: 87° Pierre, 10° Ralph. Annual rainfall continues considerably below normal.

Corn harvest 86% complete, normal 54%, 1973 50%. Drying weather excellent. Soybean harvest essentially complete, normal 85%, 1973 78%. Sorghum harvest 96% complete, normal 74%, 1973 55%. Fall seeded grain needs rain. Livestock in good condition. Pastures short and dry. Cattle on stubble or being fed hay. Sales increasing. Stock water supplies short.

**TENNESSEE:** Early week mostly fair; some light rain late week, less than 0.05 in., few heavier amounts mid-State. Temperatures slightly above normal for mid and west portions and 1 to 4° below normal east.

Excellent harvest weather. Corn 50% picked, 70% mature, normal 50% harvested, moisture high. Cotton 70% open bolls, 1973 90%, average 80%, 25% picked, 50% 1973, 45% average. Soybeans 25% combined, same as 1973. Week behind normal. Burley 30% stripped, week behind 1973 and normal. Wheat 65% seeded, near normal, 70% 1973. Oats and barley 85% seeded, same as last year, 90% normal.

**TEXAS:** Temperatures generally 1 to 3° above normal. Heavy showers, thunderstorms caused local flooding west central, extreme southern portions State. Over 8.00 in. fell small area southwest San Angelo, nearly 1.00 in. panhandle, far west Texas, less than 0.50 in. east Texas.

Seeding wheat, oats moderate progress before rains stopped activity. Harvest cotton, corn, sorghum, soybeans delayed by cool, wet weather most areas. Farmers resume harvest operations as weather conditions permit. Major crops percent harvested: Cotton 28, 1973 22, average 25; corn 75, 1973 92, average 94; sorghum 63, 1973 80, average 67; soybeans 23, 1973 29, average 36; peanuts 57, 1973 69, average 68; sugarbeets 26, 1973 41, average 25. Major crops percent planted: Wheat 90, 1973 91, average 91; oats 89, 1973 84, average 78.

High Plains: Harvest lettuce, carrots limited due wet fields. Tomatoes damaged by frost several localities. Trans-Pecos: Tomato harvest 90% complete. Chili harvest virtually complete. Fall lettuce shows good development but none cut. North: Turnips, greens, okra, beans, other truck crops being harvested. East: Digging of sweetpotatoes in final stages. Some of crop soured in ground due excessive rains. Along Upper Coast harvest squash, Irish potatoes, eggplant, peppers, greens in progress. Winter Garden-San Antonio: Harvest of cucumbers, peppers, eggplant major activity. Limited cutting cabbage, spinach.

Vegetable crops generally excellent condition. Coastal Bend: Planting of spinach continues. Early seeded fields up good stands. Cucumber harvest underway. Lower Rio Grande Valley: Vegetable planting still in progress. Cabbage, peppers in early stages of development. Pecan harvest gaining momentum south central, where about 25% of crop gathered, early varieties beginning drop north. Citrus harvest continues on limited scale, crop continues to size, color well. Harvest activity expected to gain momentum rapidly during next few weeks.

Wheat, oats good growth across State, furnishing light grazing from High Plains to East. Rains throughout provided excellent moisture for satisfactory growth late fall, early winter. Farmers and ranchers baling hay Blacklands and east Texas. Livestock condition good to excellent most areas. Numerous screwworm cases confirmed Edwards Plateau, South Central.

**UTAH:** Temperatures averaged about 5° above normal, ranging from 3° below to 11° above. Precipitation ranging from none to 2.27 in.

Crop season of 1974 drawing to a close. Percent completion late crop harvest: 90% potatoes, 100% dry onions, 100% apples, 100% dry beans. Some sugarbeets remain to be lifted, corn for grain only crop largely unharvested. Alfalfa hay harvest virtually completed. About 95% sheep and cattle moved from high summer range to winter range or feeding areas. Feeder calf movement to feedlots quite slow.

**VIRGINIA:** Cold early week, seasonably warm weekend. Scattered showers Thursday and Friday. Extremes: 78 and 17°.

Weather excellent for harvest work. Rain needed all areas for small grains and pastures. Topsoil moisture 56% short and 44% adequate. Severest in Piedmont area. Corn harvest 64% complete. Soybean harvest 22% complete. Over 95% peanuts dug and 83% combined. Small grain seeding on schedule. Wheat 57% seeded, barley 79%, winter oats 83%. Rain badly needed. Cotton harvest underway. Pastures 84% normal but early freezes and moisture shortages resulting near wintertime forage levels. Sweetpotato harvest near end on Eastern Shore and farm crops being housed quickly. Apple harvest about completed.

**WASHINGTON:** West: Average temperatures 1 to 3° below normal. Rain early week totals varying up to 0.50 in. Sunny afternoons after morning fog.

Silage corn harvest virtually complete in all areas. Some green chopping still being done. Harvest activities included celery, cabbage, carrots, pumpkins, potatoes, and sweetcorn. Dry conditions making carrot harvest difficult. Pasture liming and fertilization underway.

East: Average temperatures slightly above average. Highs 60's, lows 20's. No measurable precipitation.

Harvest of field corn, sudan grass, dry beans, sugarbeets and potatoes continues. Fourth cutting alfalfa nearly complete. Some growers trying for a fifth. Farmers busy with orchard cleanup. Rodent control and fertilizing. Many are seeking their remaining small grains in dry soil. Early seeded grains are quite variable in emergence.

**WEST VIRGINIA:** Temperatures averaged well below normal with lowest readings early in week. Rainfall below normal with little or none northern half and

only few light scattered showers southern half.

Soil moisture 67% adequate, 33% short. Pastures short result of dry weather. Some small grains emerged but slow germinating. Fieldwork suitable 5.5 days. Weather excellent for corn harvest.

**WISCONSIN:** Mild, dry week. Temperatures averaged 3° above normal. Most areas had only a trace or no rainfall.

Corn for grain 25% harvested, 1973 40%, 1968-73 average 35%. High moisture content on corn limited harvest progress to oats. Lots of variation in moisture content, maturity, and yields. Cribbing of corn becoming more active as moisture content drops. Most corn harvested so far was high moisture storage or immediate feeding. Some problems with mold on soft corn. Substantial shrinkage on some corn and lighter test weights. Dry field conditions permitted chopping of corn stalks where picking finished. Soybean harvest going good, 55% harvested, 1973 55%, 1968-73 35%.

Fall plowing 35% done, 1973 45%, 1968-73 40%, too dry for good plowing. Soil moisture 70% short, 30% adequate. Outside work being done in mild fall weather. Cranberry harvest done some areas. Apple harvest near end. Most vegetables harvested. A few farmers still green chopping. Feeding from storage common as fall pastures poor.

**WYOMING:** Temperatures generally several degrees above normal. Extremes: 82° Wheatland, 8° Big Piney. Precipitation scattered, most locations received less than 0.20 in. Lander received 0.57 in. Diversion Dam 0.80 in.

Harvest progress remains ahead of 1973. Corn for grain 50% picked, 30% 1973. Sugarbeets 85% dug, 80% year ago. Sugar content high, 18%. Potatoes 95% dug. Winter wheat prospects good. Soil moisture short most areas. Approximately 33% calves, 50% yearlings, 75% lambs marketed, behind last year's pace. Livestock in good condition.

### WORLD AGRICULTURAL WEATHER WATCH AN UPDATE

"A month best forgotten" is how a news report described Ireland's weather in September. Indeed, it was Ireland's coldest and wettest September on record, damaging cereals and slowing pasture growth.

Rapeseed planting in Poland was completed under optimum conditions. There was little or no rain on the plains of Spain, thus delaying the seeding of winter grain.

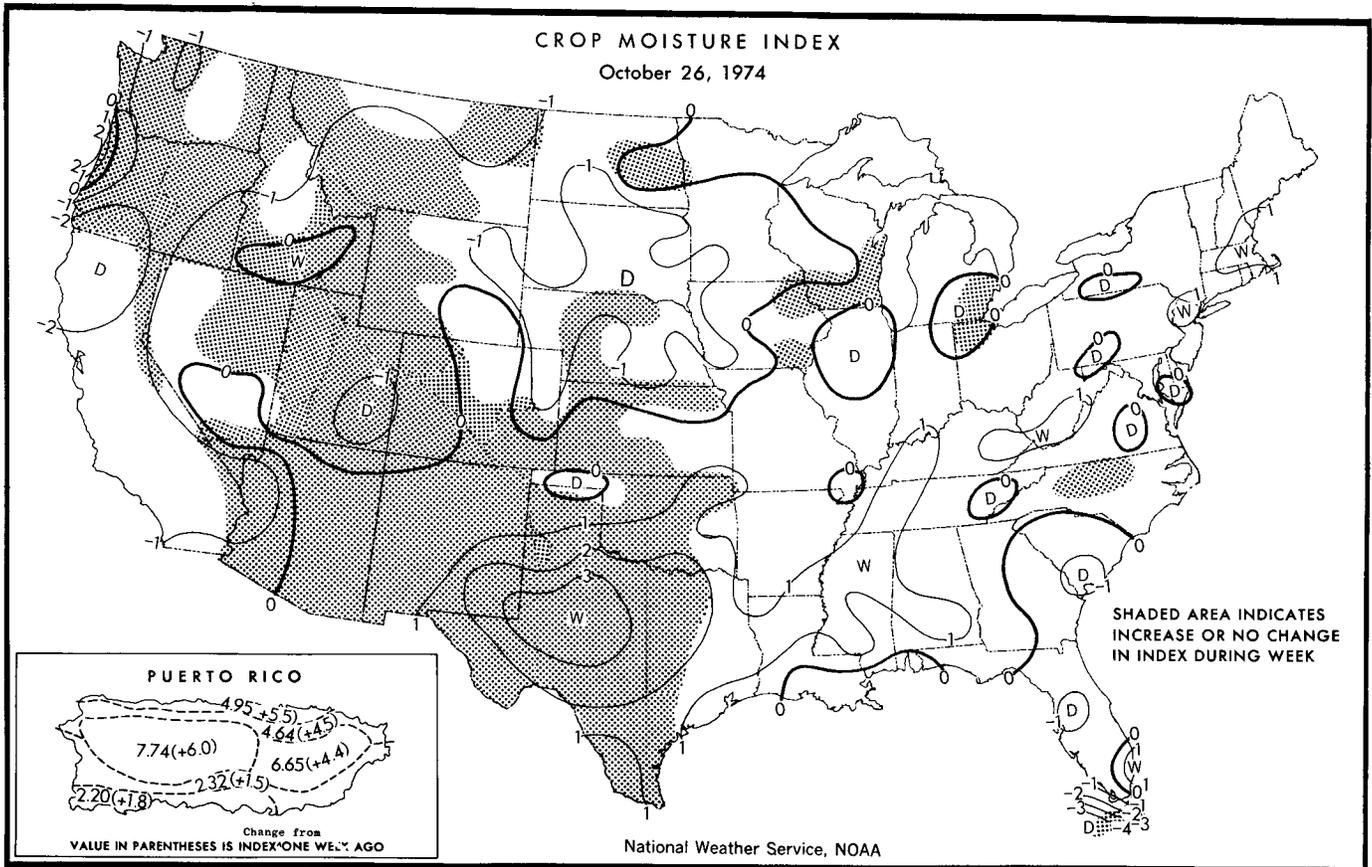
Cotton seeding got a good start in Argentina except for flooded areas in southwestern Chaco province. For cereals, southern portions of the Pampa region need rain badly. September frosts damaged stone fruits in Chile.

Some rains fell in late September and early October in some very dry states in India, improving the situation for fall seeding but too late to be of much help to crops for fall harvest. Jute harvest is underway in Bangladesh, however, production is sharply below last season because of bad weather from planting through harvest. Heavy early October rains damaged tapioca in Thailand.

Weather has been favorable for harvest of cotton, raisin grapes, figs, and sunflowers in Turkey although too dry for olives and citrus.

USDA FOREIGN AGRICULTURAL SERVICE  
W.J. Cremins  
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Standard copy for the weekly Weather and Crop Bulletin is prepared by: Richard E. Felch, Lyle M. Denny, Orus W. Byrd, National Weather Service, NOAA; DeLon A. Brown, Nancy J. Burt, Statistical Reporting Service, USDA.



**SHADED AREAS:** Index increased or did not change last week

Index

- Above 3.0 Excessively wet, some fields flooded
- 2.0 to 3.0 Too wet, some standing water
- 1.0 to 2.0 Prospects good, some fields too wet
- 0 to 1.0 Moisture adequate for present normal needs
- 0 to -1.0 Prospects improved, but rain still needed
- 1.0 to -2.0 Some improvement, but still too dry
- 2.0 to -3.0 Drought eased, but still serious
- 3.0 to -4.0 Drought continues, rain urgently needed
- Below -4.0 Not enough rain, still extremely dry

**UNSHADED AREAS:** Index decreased last week

Index

- Above 3.0 Some drying, but still excessively wet
- 2.0 to 3.0 More drying weather needed, work delayed
- 1.0 to 2.0 Favorable, except still too wet in spots
- 0 to 1.0 Normal growth and fieldwork
- 0 to -1.0 Topsoil moisture short, germination slow
- 1.0 to -2.0 Abnormally dry, prospects deteriorating
- 2.0 to -3.0 Too dry, yield prospects reduced
- 3.0 to -4.0 Potential yields severely cut by drought
- Below -4.0 Extremely dry, most crops near ruin

The map gives a general picture of how wet or dry the Nation was last week. It shows areas where abnormal wetness or dryness have hindered crops and areas where moisture conditions have favored them.

The lines show the crop-moisture situation according to an index computed from values of temperature and precipitation by areas...350 climatological divisions, which correspond roughly to SRS's crop reporting districts. Previous weekly computations of soil moisture account for the effects of prior weather.

Shaded areas are those where precipitation increased the index last week or where soils did not dry. Unshaded areas dried last week.

The centers of wet or dry areas are marked: W=wet; D=dry. The map lines mark off crop situations. Use the legend to interpret.

Local variations caused by isolated rain or by soil differences are not shown. While shallow rooted crops in poor soils may suffer more than the map shows, conditions may be better where soils are good. Also, legends apply to growing rather than mature plants. Any map interpretation must consider both the growth stage and moisture status and trend. In irrigated regions, the index values reflect only departures from ordinary irrigation requirements.

