

# Weekly Weather & Crop Bulletin

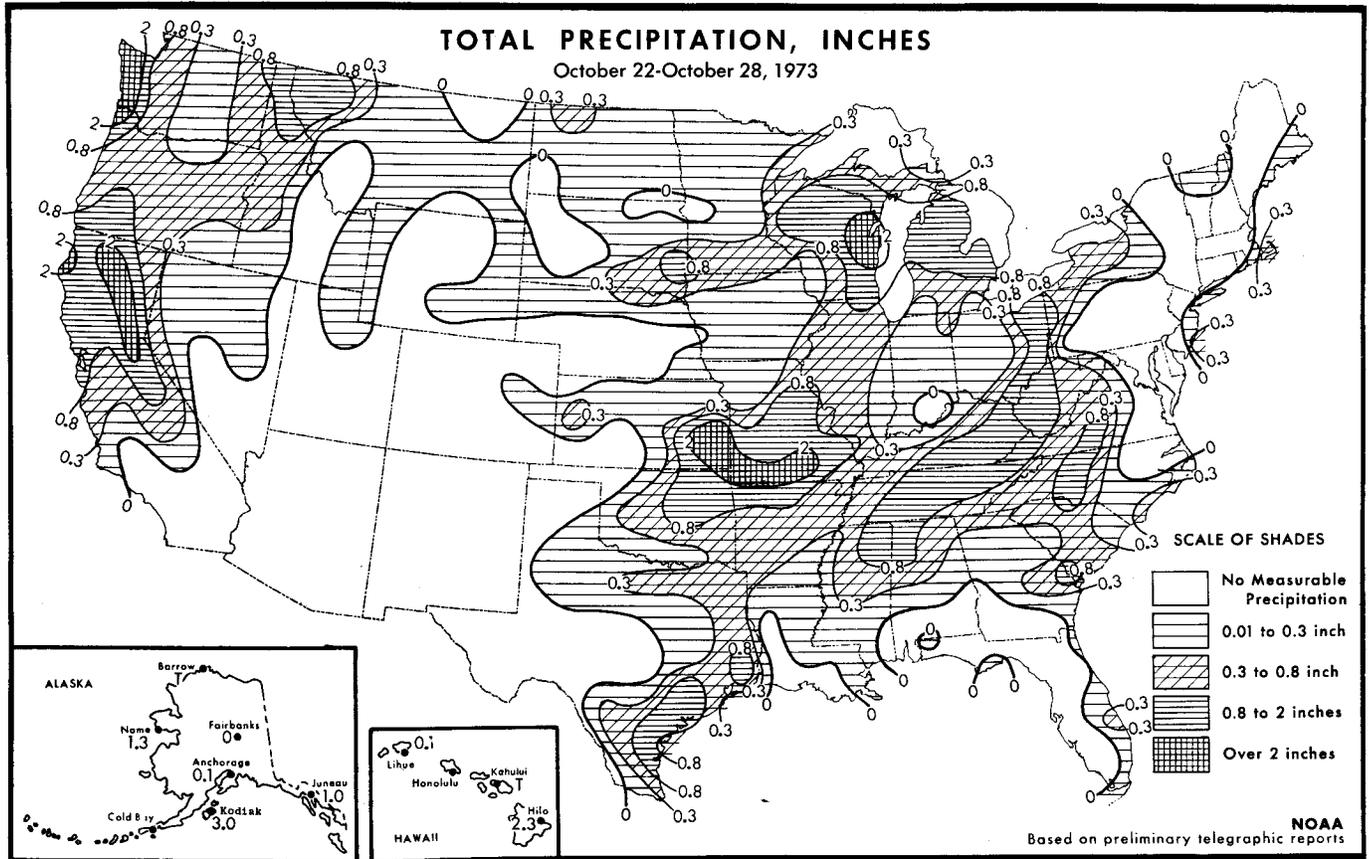
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## NATIONAL WEATHER SUMMARY

**HIGHLIGHTS:** While almost daily showers fell on the Pacific Northwest, the rest of the Nation remained clear until Friday, when a cold front ended 10 days of warm, dry weather. Sunday the front brought clouds and rain to the East. East of the Rockies, temperatures averaged above normal: parts of Montana, Kentucky, West Virginia, the North Atlantic States and an area in the western Great Lakes were 6° or more above normal. Only a 4-State area in the West averaged 3° below normal.

**PRECIPITATION:** Areas in northern California and Washington received 2.00 in. or more of rain. While almost daily rain fell in many places in the Northwest, most came around midweek. Parts of Missouri and Kansas received 2.00 in. or more over the weekend as a low pressure system intensified over eastern Nebraska.

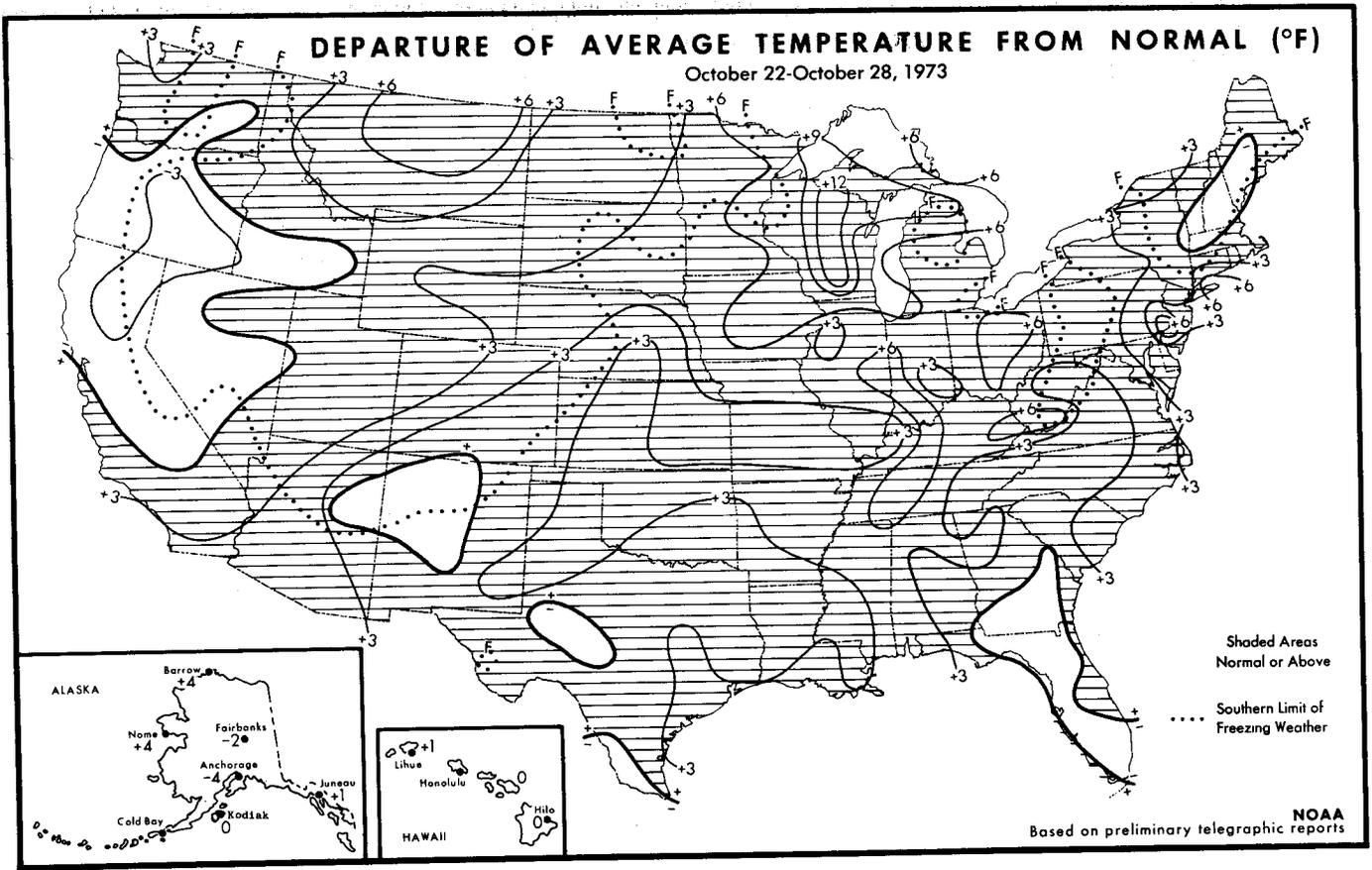
A large high pressure system over New England dominated Monday's weather bringing fair weather to most of the Nation. However, in the Pacific

Northwest a cold front, stretching from Montana to Oregon brought rain, gusty winds, and snow in higher elevations. The rains continued Tuesday, spreading into northern California, Nevada, and western Montana. A foot of snow fell at Austin, Nev., and Mt. Ashland, Ore. Meanwhile, 55-mph winds howled over Wyoming and Utah.

Early Wednesday 0.50 in. rain fell along the Washington and Oregon coasts. A Low over South Dakota brought gusty winds to the central Great Plains: Winds up to 40 mph hit South Dakota and Nebraska. To the east, the Nation enjoyed a warm sunny day.

By early Thursday the Low reached the Great Lakes. In the East, Tropical Storm Gilda revived slightly about 600 miles east of Savannah, Ga., and scattered showers along the Atlantic Coast. As Gilda moved north, she caused gale-force winds and above normal tides.

Thursday gale-force winds continued along the New England coast. Snow whitened the Black Hills



of the Dakotas, but quickly melted. Friday was mostly clear, but later in the day the cold front extending from a Low over Minnesota and Wisconsin, began to move across the Nation's midsection, bringing cold, wet conditions.

One-in. hail fell in southwest Oklahoma and 3/4-in. hail hit southwest Missouri. Thunderstorms erupted: Neosho, Mo., had 2.20 in. rain and Chanute, Kans., 2.18 in. late Friday and early Saturday. By midmorning Saturday, Monette, Mo., had received 2.70 in. rain in 6 hours. By late Saturday, rain was falling from the Great Lakes to the Texas coast.

Late Saturday, the front reached the western Appalachians. Martinsburg, W. Va., received 1.88 in. rain. Cloudy, blustery conditions prevailed in many areas along the East Coast.

**TEMPERATURE:** The entire Nation warmer than normal except for parts of the Far West. Part of Montana and the western Great Lakes region averaged 6° or more above normal. Central Wisconsin averaged 12° above seasonal norms. The cold front which passed over the Nation's eastern two-thirds late in the week, brought cooler temperatures to most of the Nation during the weekend.

Monday, freezing temperatures struck inland New England and the northern Appalachians, while most of the Nation had 40's or 50's. At 2 p.m., temperatures ranged from 43° at Redmond, Ore., to 87°

at Phoenix, Ariz. Tuesday, morning lows were again mostly in the 40's and 50's. A cold front extended through Montana to southwest Utah. Cold, wet conditions prevailed to its west, balmy weather to its east. Wednesday morning, for example, temperatures stood in the 50's and 60's from the western Gulf to the Canadian border due to gusty southerly winds. The central Rockies and Great Basin, west of the front, had 20's and 30's. Wednesday afternoon readings hit the 70's in the Midwest, but only the 40's in the west central Plains. El Paso, Tex., hit a new record high, 87°.

Thursday, midwestern temperatures hit the 70's, while 80's prevailed along the Gulf and in southwestern deserts. As the front moved eastward, temperatures dropped: At Minneapolis, Minn., for example, they dropped 18° Thursday afternoon. Friday, the front, pushed eastward by a High in the north Rockies, dropped readings into the 40's over the northern Plains, while Wilmington, Del., recorded a record high 77°.

Saturday morning it was cold enough for snow in the Dakotas, while the Rockies had 20's and 30's. Early afternoon highs mostly hit 40's along the Canadian border, while the mid-Atlantic States had 50's and 60's. Sunday morning, things were 10° to 20° cooler from Texas to Illinois than 24 hours previously. Afternoon temperatures throughout the northeastern and north central parts of the Nation were mostly in the 40's.

## NATIONAL AGRICULTURAL SUMMARY

**AGRICULTURAL HIGHLIGHTS:** A second week of sunny, dry weather provided ideal conditions for excellent harvesting progress of the Nation's corn, cotton and soybean crops. Wheat seeding advanced rapidly in the southern Great Plains but dryness slowed progress in the Southeast.

**SMALL GRAINS:** Wheat farmers in the southern Great Plains were busy last week seeding winter wheat under clear, sunny skies. By October 28, winter wheat seeding had advanced to 80% complete in Kansas, 92% complete in Oklahoma, 91% in Texas, and about 100% complete in Colorado. Normally seeding is 95% done in Kansas by this time but wet conditions during September and October delayed progress. Seeding in the western third of Kansas is about completed.

Wheat seeding in the eastern Corn Belt neared completion with Ohio 95% done, Indiana 90% done and Illinois 92% done. Progress lagged in Iowa at 82% complete and also in Missouri, 56% complete. Dryness slowed small grain seeding in the South Atlantic and eastern South Central Regions. Rains are needed in these areas for further planting and to boost recently seeded acreage.

Seeding winter wheat neared completion in the important producing Western States. Rain last week in the Northwest helped wheat seedings and most emerged stands look good.

**CORN:** Corn harvesting progressed well in the Corn Belt due to a second week of sunny, dry weather. Nationally, the corn harvest was 43% complete by October 28, ahead of 37% complete a year ago. The Corn Belt corn harvest advanced 13 points from the previous week to 38% complete which is ahead of last year's 32% done but behind the usual average of 44% complete. Corn in the Southern States was about 72% picked, about equal to 1972 progress.

Completion of harvest in the eastern Corn Belt at 45% done surpassed last year by 4 points and was only 1 point behind the normal average. However, the western Corn Belt at 33% complete trailed both last year's 39% and the usual 42% completion.

The Iowa corn crop was 26% harvested versus about 29% in 1972 and a 38% average. Only Nebraska and Kansas were less complete in the Corn Belt with 25% harvested, far behind normal. Illinois corn harvesting reached 42% complete versus 30% in 1972 and an average of 55%.

**COTTON:** Cotton harvesting rolled along at a fast pace last week in the South under ideal harvesting weather. Texas farmers resumed their harvest after several weeks delay from wet weather and advanced cotton picking to 22% complete, behind the 33% complete a year earlier.

Cotton in the 11-major producing Southern States reached 32% harvested, an increase of 12 points over the previous week, but completion remained less than the 45% picked a year ago.

Harvesting made very rapid progress in the Delta --farmers there picked about one-fifth of the crop last week and advanced harvest completion to 48% in Mississippi, 47% in Arkansas, 50% in Tennessee and 25% in Louisiana. In the West, cotton harvesting continued actively under favorable conditions.

**SOYBEANS:** A second week of fine autumn weather permitted excellent progress harvesting soybeans. By October 28, about 64% of the Nation's soybean crop was harvested, ahead of the 56% harvested a year earlier.

Corn Belt farmers harvested nearly a fourth of their soybean crop last week and pushed harvesting to 80% complete, ahead of both last year's 68% complete and the usual average of 74% complete for this time.

Soybean harvesting progress was ahead of both last year and normal in 7 of the 12 North Central States. Illinois soybeans were 90% harvested, well ahead of the 77% a year ago and 83% usually harvested. Iowa beans were 89% gathered, also far ahead of the 75% usually harvested.

Harvesting was least advanced in Kansas at 30% complete versus 60% in 1972 and 65% usually done. Progress equaled 1972 in Missouri at 52% complete. In the South soybeans were about 29% harvested, behind last year's 33% progress.

**OTHER CROPS:** Sorghum grain harvesting in the 7 States which account for 91% of the U. S. acreage--Texas, Oklahoma, Colorado, Kansas, Nebraska, South Dakota, and Missouri--advanced to 57% complete, slightly ahead of the 55% complete a year earlier. Harvesting in Texas remained at 69% complete, but advanced in Kansas to 30% done versus an average 55%. Nebraska sorghum harvesting at 75% done leads both last year's 50% and the average 60%.

Peanut harvesting was 69% complete in Texas versus 79% in 1972 while North Carolina peanuts are virtually all harvested.

Potato harvesting in Idaho was 95% complete. Harvesting continued actively in Washington.

Sugar beet digging in Idaho was over 60% done and advanced to 64% complete in Colorado.

**FRUITS AND NUTS:** Apple harvesting moved into final stages in the Northeast and Northwest.

Grape harvesting continued in California while the almond harvest is about finished.

Florida citrus trees remained in excellent condition with dry, cool weather aiding fruit coloring. The California Valencia orange harvest is virtually complete, some light picking of Navel oranges started.

**VEGETABLES:** Green leafy vegetables continued in light supply in the Northeast while supplies of many Florida vegetables increased. Mild weather favored Florida vegetable crops.

Drier weather permitted a return to harvesting and planting vegetable crops in Texas while harvest of mixed vegetables continued normally in California.

**PASTURES AND LIVESTOCK:** Pasture conditions declined in much of the East and in the extreme southwestern U. S. Rains over the Northwest benefited pastures which have greened from recent moisture. Pastures in the southern Great Plains furnished good fall grazing and livestock are in good to excellent shape.

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., Oct. 28, 1973

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 . . .	64	+ 2	.4	-.3	La. Baton Rouge . . .	70	+ 4	0	-1.0	Youngstown . . .	53	+ 4	1.0	+ .4
Mobile . . .	72	+ 5	T	-.6	Lake Charles . . .	70	+ 2	T	-.6	OKLA. Okla. City . . .	62	+ 3	.8	+ .3
Montgomery . . .	65	+ 2	T	-.5	New Orleans . . .	69	+ 2	.10	-.4	Tulsa . . .	63	+ 4	1.4	+ .7
ALASKA. Anchorage . . .	27	- 4	.1	-.3	Shreveport . . .	67	+ 2	.1	-.5	OREG. Astoria . . .	52	+ 1	2.2	+ .2
Barrow . . .	16	+ 4	0	-.1	MAINE. Caribou . . .	41	+ 2	0	-.8	Burns . . .	41	- 4	.3	+ .1
Fairbanks . . .	17	- 2	T	-.2	Portland . . .	46	0	T	-.7	Medford . . .	48	- 1	1.4	+ .9
Juneau . . .	40	+ 1	1.0	-.9	MD. Baltimore . . .	56	+ 2	T	-.7	Pendleton . . .	51	+ 1	.2	-.1
Kodiak . . .	38	0	3.0	---	MASS. Boston . . .	53	+ 2	0	-.8	Portland . . .	53	+ 2	.4	-.5
Nome . . .	30	+ 4	1.3	+ .9	Chatham . . .	52	- 1	.4	---	Salem . . .	51	0	.7	-.3
ARIZ. Flagstaff . . .	49	+ 5	0	-.3	MICH. Alpena . . .	52	+ 9	1.1	+ .3	PA. Allentown . . .	53	+ 3	T	-.6
Phoenix . . .	72	+ 5	0	-.1	Detroit . . .	53	+ 4	.7	+ .2	Erie . . .	53	+ 5	.5	-.2
Tucson . . .	70	+ 4	0	-.1	Flint . . .	51	+ 4	.9	+ .4	Harrisburg . . .	55	+ 2	T	-.7
Winslow . . .	52	- 1	0	-.2	Grand Rapids . . .	53	+ 5	.8	+ .2	Philadelphia . . .	58	+ 6	T	-.6
Yuma . . .	74	+ 4	0	-.1	Houghton Lake . . .	49	+ 6	.9	+ .2	Pittsburgh . . .	54	+ 4	T	-.6
ARK. Fort Smith . . .	61	+ 1	.6	-.2	Lansing . . .	52	+ 4	.7	+ .1	Scranton . . .	50	+ 2	0	-.8
Little Rock . . .	65	+ 5	.4	-.3	Marquette . . .	53	+ 9	.6	+ .2	R.I. Providence . . .	52	+ 2	T	-.7
CALIF. Bakersfield . . .	64	0	T	-.1	Muskegon . . .	51	+ 2	.6	+ .1	S.C. Charleston . . .	68	+ 5	.5	0
Eureka . . .	53	- 1	2.0	+1.1	S. Ste. Marie . . .	49	+ 6	T	-.5	Columbia . . .	65	+ 3	.5	0
Fresno . . .	60	- 2	.3	+ .2	MINN. Duluth . . .	46	+ 6	.3	-.2	Greenville . . .	61	+ 1	.4	-.4
Los Angeles . . .	69	+ 3	0	-.1	Internatl Falls . . .	46	+ 8	.1	-.3	S.D. Aberdeen . . .	47	+ 3	T	-.2
Red Bluff . . .	58	- 4	1.0	+ .6	Minneapolis . . .	53	+ 8	.2	-.1	Huron . . .	49	+ 4	.2	-.1
San Diego . . .	68	+ 3	T	-.1	Rochester . . .	52	+ 6	.4	0	Rapid City . . .	49	+ 2	T	-.2
San Francisco . . .	59	0	.9	+ .7	St. Cloud . . .	49	+ 6	T	-.4	Sioux Falls . . .	51	+ 4	1.0	+ .8
Stockton . . .	60	- 1	.6	+ .4	MISS. Jackson . . .	65	+ 2	.3	-.2	TENN. Chattanooga . . .	59	+ 1	.5	-.2
COLO. Denver . . .	52	+ 4	0	-.2	Meridian . . .	66	+ 4	.1	-.4	Knoxville . . .	59	+ 2	.8	+ .2
Grand Junction . . .	53	+ 2	0	-.1	MO. Columbia . . .	57	+ 3	.9	+ .3	Memphis . . .	65	+ 5	.3	-.4
Pueblo . . .	53	+ 2	0	-.2	Kansas City . . .	59	+ 3	.2	-.4	Nashville . . .	64	+ 6	.9	+ .4
CONN. Bridgeport . . .	58	+ 6	0	-.7	St. Louis . . .	57	+ 2	.4	-.3	TEX. Abilene . . .	64	+ 1	T	-.6
Hartford . . .	52	+ 2	0	-.6	Springfield . . .	59	+ 3	2.0	+1.1	Amarillo . . .	60	+ 3	0	-.4
D.C. Washington . . .	61	+ 5	T	-.7	MONT. Billings . . .	52	+ 5	T	-.2	Austin . . .	69	+ 1	T	-.6
FLA. Apalachicola . . .	70	+ 2	.2	-.3	Glasgow . . .	49	+ 7	T	-.1	Beaumont . . .	74	0	.2	-.5
Daytona Beach . . .	71	0	0	---	Great Falls . . .	51	+ 7	.1	0	Brownsville . . .	75	+ 3	.5	0
Ft. Myers . . .	75	0	T	-.7	Havre . . .	49	+ 7	.1	-.1	Corpus Christi . . .	75	+ 3	.5	0
Jacksonville . . .	68	0	T	-1.0	Helena . . .	46	+ 4	T	-.2	Dallas . . .	69	+ 1	T	-.4
Key West . . .	79	+ 1	.1	-1.3	Kalispell . . .	43	+ 3	.9	+ .6	Del Rio . . .	61	+ 1	0	-.2
Lakeland . . .	72	0	0	-.6	Miles City . . .	50	+ 5	.2	0	El Paso . . .	66	+ 1	.3	-.3
Miami . . .	75	- 2	.1	-1.3	Missoula . . .	44	+ 4	.2	0	Fort Worth . . .	75	+ 4	.2	-.4
Orlando . . .	73	+ 1	.1	-.6	NEBR. Grand Island . . .	53	+ 4	T	-.2	Galveston . . .	70	+ 3	.7	-.1
Tallahassee . . .	66	- 1	T	-.4	Lincoln . . .	55	+ 2	T	-.3	Houston . . .	33	+ 5	.3	-.1
Tampa . . .	72	- 1	T	-.5	Norfolk . . .	52	+ 3	.1	-.1	Lubbock . . .	62	0	T	-.3
W. Palm Beach . . .	76	- 1	T	---	N. Platte . . .	48	+ 1	T	-.2	Midland . . .	64	- 1	0	-.4
GA. Atlanta . . .	63	+ 4	.1	-.5	Omaha . . .	55	+ 4	T	-.3	San Angelo . . .	69	+ 1	.2	-.3
Augusta . . .	62	0	.2	-.2	Valentine . . .	50	+ 5	.2	0	San Antonio . . .	69	+ 1	.2	-.3
Macon . . .	64	+ 1	.3	-.1	NEV. Ely . . .	42	- 1	.1	-.1	Victoria . . .	73	+ 3	.8	0
Savannah . . .	66	+ 2	.1	-.4	Las Vegas . . .	64	+ 1	0	0	Waco . . .	69	+ 3	T	-.5
HAWAII. Hilo . . .	75	0	2.3	-.2	Reno . . .	45	- 1	.5	+ .4	Wichita Falls . . .	65	+ 2	.1	-.5
Honolulu . . .	---	---	---	---	Winneucca . . .	44	0	.2	0	UTAH. Blanding . . .	51	+ 3	0	-.3
Kahului . . .	77	0	T	-.3	N.H. Concord . . .	44	- 2	T	-.6	Salt Lake City . . .	50	+ 2	.2	-.1
Lihue . . .	78	+ 1	.1	-1.0	N.J. Atlantic City . . .	56	+ 2	.3	-.4	VT. Burlington . . .	47	+ 3	T	-.7
IDAHO. Boise . . .	48	0	.3	+ .1	Trenton . . .	57	+ 3	T	-.6	VA. Lynchburg . . .	57	+ 1	1.2	+ .6
Lewiston . . .	51	+ 2	.3	0	N. MEX. Albuquerque . . .	54	0	0	-.2	Norfolk . . .	63	+ 4	T	-.6
Pocatello . . .	45	- 1	.1	-.1	Roswell . . .	59	+ 3	0	-.2	Richmond . . .	59	+ 4	0	-.7
ILL. Cairo . . .	62	3	.4	-.2	N.Y. Albany . . .	48	0	T	-.6	Roanoke . . .	56	+ 1	.6	-.7
Chicago . . .	55	+ 4	.4	-.2	Binghamton . . .	52	+ 5	T	-.7	WASH. Colville . . .	43	+ 1	.7	+ .3
Moline . . .	54	+ 3	.7	+ .2	Buffalo . . .	52	+ 4	.7	0	Omak . . .	46	+ 2	.2	0
Peoria . . .	54	+ 3	.4	-.2	New York . . .	57	+ 2	T	-.7	Quillayute . . .	50	+ 1	2.8	+ .3
Rockford . . .	53	+ 4	.6	-.4	Rochester . . .	54	+ 2	.6	0	Seattle-Tacoma . . .	53	+ 3	.3	-.7
Springfield . . .	58	+ 5	.4	-.2	Syracuse . . .	51	+ 2	T	-.7	Spokane . . .	45	0	.5	+ .1
IND. Evansville . . .	58	+ 2	.1	-.4	N.C. Asheville . . .	56	+ 2	.4	-.2	Walla Walla . . .	52	+ 1	.4	0
Ft. Wayne . . .	53	+ 4	.3	-.3	Charlotte . . .	61	+ 2	1.2	+ .5	Yakima . . .	47	0	.2	+ .1
Indianapolis . . .	55	+ 3	.2	-.3	Greensboro . . .	58	+ 2	.7	+ .1	W. Va. Beckley . . .	56	+ 6	.6	0
South Bend . . .	56	+ 6	.2	-.5	Hatteras . . .	65	+ 2	.3	-.6	Charleston . . .	57	+ 3	1.3	+ .7
IOWA. Burlington . . .	56	+ 4	.4	-.2	Raleigh . . .	59	+ 2	0	-.5	Huntington . . .	59	+ 5	1.6	+1.2
Des Moines . . .	58	+ 8	.2	-.3	Wilmington . . .	67	+ 5	.5	-.2	Parkersburg . . .	58	+ 4	1.2	+ .8
Dubuque . . .	53	+ 7	.1	-.5	N. DAK. Bismarck . . .	43	+ 1	.1	-.1	WIS. Green Bay . . .	54	+ 8	2.1	+1.7
Sioux City . . .	55	+ 5	T	-.3	Fargo . . .	46	+ 3	.1	-.2	La Crosse . . .	55	+ 8	.2	-.3
KANS. Concordia . . .	56	+ 3	.1	-.2	Williston . . .	45	+ 3	.2	+ .1	Madison . . .	60	+14	.6	+ .2
Dodge City . . .	58	+ 4	0	-.3	OHIO. Akron-Canton . . .	56	+ 7	1.1	+ .6	Milwaukee . . .	53	+ 7	1.1	+ .6
Goodland . . .	50	+ 2	T	-.2	Cincinnati . . .	56	+ 3	.2	-.2	WYO. Casper . . .	47	+ 3	T	-.2
Topeka . . .	57	+ 3	.1	-.4	Cleveland . . .	55	+ 5	.9	+ .4	Cheyenne . . .	47	+ 3	0	-.2
Wichita . . .	59	+ 2	.7	-.3	Columbus . . .	56	+ 6	.3	-.1	Lander . . .	46	+ 3	0	-.3
KY. Lexington . . .	59	+ 4	.2	+ .2	Dayton . . .	57	+ 5	.1	-.4	Sheridan . . .	47	+ 2	T	-.3
Louisville . . .	60	+ 6	0	-.5	Toledo . . .	53	+ 5	.2	-.3	P.R. San Juan . . .	85	+ 5	.1	-1.1

## 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:** Fair weather. Temperatures 5° to 10° above normal. Changed to cooler weekend and first rain in more than 2 weeks north and central. Rains 0.50 to 1.00 in. widespread north half but little or none south. Tuskegee, in central, reports no rain since October 1.

Harvest of cotton, corn and soybeans made excellent progress. Cotton 33% harvested, slightly over 50% 1972. Cotton harvest took priority on most farms. Corn 60% harvested. Virtually all soybeans matured, about 30% combined, 1972 harvest almost 50% complete. Planting small grains made slow progress as dry weather and harvest activities held seeding to minimum. About 50% of expected acreage planted. Light harvest of pecans underway south. Pastures furnished mostly adequate grazing, but grass getting dry and tough.

**ARIZONA:** Sunny, dry. Temperatures above seasonal normals first part of week, seasonal Friday and Saturday. Daytime highs quite warm. Nighttime lows well below normal. Nighttime lows 50° most areas. Freezing temperatures above 5,000 ft.

Cotton harvest continued under favorable conditions. Late crop development. Sorghum harvested most areas. Yuma late planted sorghum dough stage. Harvest fall sugar beets Cochise County underway. Beets spring harvest Maricopa, Yuma good growth. Alfalfa seed harvest neared completion. Harvest hay limited. Lettuce harvest continued Willcox. Planting, thinning active Yuma. Stands early fields good. First harvest expected 2 weeks. Lettuce north and southcentral areas good progress. Harvest began midmonth northcentral, 25th southcentral. Mixed vegetables central west seasonal progress.

Cantaloupes Yuma approached maturity. Harvest cantaloupes and honeydews continued central. Lemon harvest neared volume Yuma, increased Salt River Valley. Shortage pickers. Overall fruit quality good. Ranges fair to poor. Range grasses drying rapidly, very little new feed growing due dryness. Drought reported several areas. Stockwater diminishing. Hauling water many areas. Cattle, calves good. Sheep, lambs on winter pastures fair to good. Fall lambing active.

**ARKANSAS:** Temperatures 2° to 7° above normal with greatest departures southeast. Extremes: 86°, Dumas 26th°, 33° at several north stations 28th. Precipitation generally less than 0.50 in. though heavier up to 1.50 in. Batesville and scattered across north. Skies clear early week, rain last 3 days.

Harvesting gained momentum. Soil moisture adequate. Cotton 47% harvested, mold and boll rot in some fields. Second picking underway in some fields. Rice 94% harvested. Yields lower than 1972, late fields still too green to cut. Soybeans good, 25% combined. Combining increasing on midseason varieties. Size, weight, and yield on beans good. Corn and sorghum harvest continued. Wheat and oats planting continued. Early plantings grazed. Pastures average. Livestock gained weight. Peanut harvest almost complete. Okra production wound down. Spinach planting about finished.

**CALIFORNIA:** Heavy rain early week boosted season totals well above normal over north. Cold air, storms, up to about 1 ft. of snow on higher mountains. While average temperatures near normal, isolated departures central and north as much as 5° subnormal. Warm, dry weather continued generally south coast and southern interior with above normal temperatures. Rains many areas benefited small grains, caused temporary halt rice, sorghum harvest.

Cotton harvest slowed. Early planted small grain grew well. Rice harvest in progress. Sorghum harvest slow pace. Alfalfa reseeded underway. Cotton harvest full. Dry bean harvest well along. Sugar beet harvest full. Grape harvest continued for wine and fresh market. Most raisins out of fields. Sugar levels in wine grapes subnormal. Walnut harvest almost over. Almond harvest essentially complete. Apple harvest active. Pruning active in prune and peach orchards. Pomegranate, date, persimmon harvests active. Olive harvesting as weather permits. Avocado harvest continued. Lemon picking increased, sunburn damage causing problems in packinghouses. Valencia orange harvest virtually complete, most remaining crop going for by-products. Light harvesting navel oranges reported around Edison.

Artichokes normal levels. Broccoli, cauliflower, good supply Salinas. Brussels sprouts increased. Cantaloupe continued Imperial. Carrots moderate Salinas. Celery cutting heavy Salinas, good quality. Light sweet corn south, Kern began. Lettuce San Joaquin increased, Salinas light, near completion. Onion, potato harvests neared completion north. Bell peppers moderate Salinas, light San Joaquin. Sweet potato continued Livingston. Market tomatoes slow San Joaquin. Processing tomato virtually complete Sacramento, San Joaquin.

Rangeland pastures greened due to rains in central, north. No rains yet south. Fall calving and lambing progressed. Ewes in good flesh. Supplement feeding active. Some shortages hay, concentrates remote areas. Water supplies good. Sheep and lambs pasturing on alfalfa and stubble fields, cost per head per day considerably higher than 1972. Egg and milk production at seasonal levels. Honey bee colonies going into overwintering stage in good shape.

**COLORADO:** Generally fair, unseasonably warm second consecutive week. Only precipitation midweek. Scattered light snows north and central mountains. Steamboat Springs received 0.06 in. of moisture from 1 in. of snow, but other reported amounts less than 0.05 in.

Temperatures 3° to 5° above normal. Unusually warm weather over eastern portion on 23rd with highs generally in 80's or low 90's. Warmest reading that day was 91° at La Junta. Denver's 87° warmest of record there for so late in season. Much of east had first hard freeze of fall early on 25th.

Excellent conditions enabled rapid harvest. Wheat and barley seeding virtually complete. Corn grain harvest gained momentum, 25% finished. Grain sorghum 85% ripe, harvest progressed well, now 22% complete. Dry bean harvest complete except eastcentral. Sugar beet harvest entering third busy week, 64% harvested. Wheat and alfalfa remain excellent. Ranges, pastures good.

**FLORIDA:** Windy. Temperatures near normal or slightly above. Rainfall mostly light except moderate to heavy eastcentral and south coastal regions. Soils dry west, north and westcentral. Mostly adequate elsewhere.

Harvesting of corn and peanuts practically complete. Cotton and soybean harvest full swing. Sugarcane good, cutting for seed continued. Small grains seeded where moisture permits. Pastures mostly poor to fair. Soil moisture mostly short. Cattle and calves good. Citrus trees excellent, rain needed, irrigation underway except east coast. Dry, cool weather aided fruit coloring. Mild, sunny days and cool nights provided excellent growing conditions for fall vegetables. Fruiting, sizing and quality expected to improve sharply. Sweet corn, radishes in full, steady volume with beans, cucumbers, squash at moderate levels and increasing. Most other commodities available in light, increasing supply. Cabbage and celery should start early November and increase weekly.

**GEORGIA:** Temperatures normal eastcentral, 2° above normal elsewhere. Dry statewide, no rain, except isolated light showers near coast. Front moving through late in weekend with colder temperatures Sunday night. Much needed rains Sunday averaging 0.50 in. extreme north and about 0.20 in. central and south.

Soil moisture short to mostly very short prior to weekend rains. Good harvest week but too dry for fall planting. Peanut harvest in final stages. Corn 63% harvested, good condition. Cotton 55% picked, also good. Soybeans 25% combined with varied yields. Pastures declined rapidly but cattle still good. Small grain seeding behind schedule at 47%, only 4% seeded. Farmers trying to secure fertilizer supplies for present and future.

**HAWAII:** Weather favored crop progress. Showers in higher elevations. Water supply adequate. Irrigation heavy in dry areas. Production of banana continues heavy. Papaya production increasing seasonally. Some vegetables in short supply. Pastures: Lowland dry, upland fair to good. Cattle fair to good. Sugar harvest nearing end. Pineapple harvest light.

**IDAHO:** Temperatures slightly above normal, lows from 12° at Fairfield to 36° at Orofino. Storms during week brought heaviest precipitation to north and southwest, light southcentral and east areas late week.

Wind up of harvest and fall seedings good progress despite blustery weather. Statewide potato harvest 95% complete, over 90% southwest and southcentral. Few scattered fields remain east. Sugar beet digging past 60% mark. Apple picking near completion. Winter grain seeding 95% complete. Emerged stands uniform and crop making good development. Soil moisture supplies generally adequate all areas.

**ILLINOIS:** Maximum temperatures 70's and low 80's. No precipitation during week. Corn harvest about 42% complete, 30% 1972, 1970-72 average 55%. Soybean harvest again progressed well, about 90% combined, 77% 1972, average 83%. Grain sorghum about 40% harvested. Winter wheat about 92% seeded, slightly ahead of both last year's and average progress. Some wheat seeded following soybean harvest. Fall plowing 1974 corn and soybeans acreage about 22% complete, about same as both last year's and normal progress. Pastures excellent 22%, good 62%, fair 15%, poor 1%. Soil moisture short 7%, adequate 92%, surplus 1%.

Nearly 7 days suitable fieldwork. Main activities: Harvesting corn and soybeans, fall plowing, winter wheat seeding, applying fertilizer.

**INDIANA:** Rainless, sunny and warm until rain of 0.50 to 0.25 in. Saturday. Then frost Monday westcentral. Daily maximums ranged from 70's to 40's and minimums from 50's to 30°. Temperatures 5° above normal.

Fieldwork averaged 7 days. Topsoil moisture short to adequate. Subsoil moisture short to mostly adequate. Corn 45% harvested, 35% average, 25% in 1972. Soybeans 85% combined, 75% average, 45% in 1972. Corn and soybeans drying well, reducing need for L.P. gas for drying. Few local shortages exist. Wheat 90% seeded, 65% in 1972. Barley and rye 95% seeded. Pastures edged lower, still mostly fair.

**IOWA:** Two weeks of fair dry conditions ended with light to moderate showers on weekend. Warmth early part of week overrode cooling latter part of week for average 6° above normal. Hard freeze western sections morning of 29th.

Excellent harvesting weather, 7 days suitable for fieldwork. Corn harvest 26% complete with average 38%. Scattered reports of corn lodging from high winds on October 24. Popcorn 47% harvested. Soybeans 89% harvested, 75% average. Winter wheat 82% seeded, normally done at this time. Grain sorghum 57% harvested, average 59%. Topsoil moisture supplies 3% short, 94% adequate, 3% surplus. Motor fuel supplies reported 93% of normal.

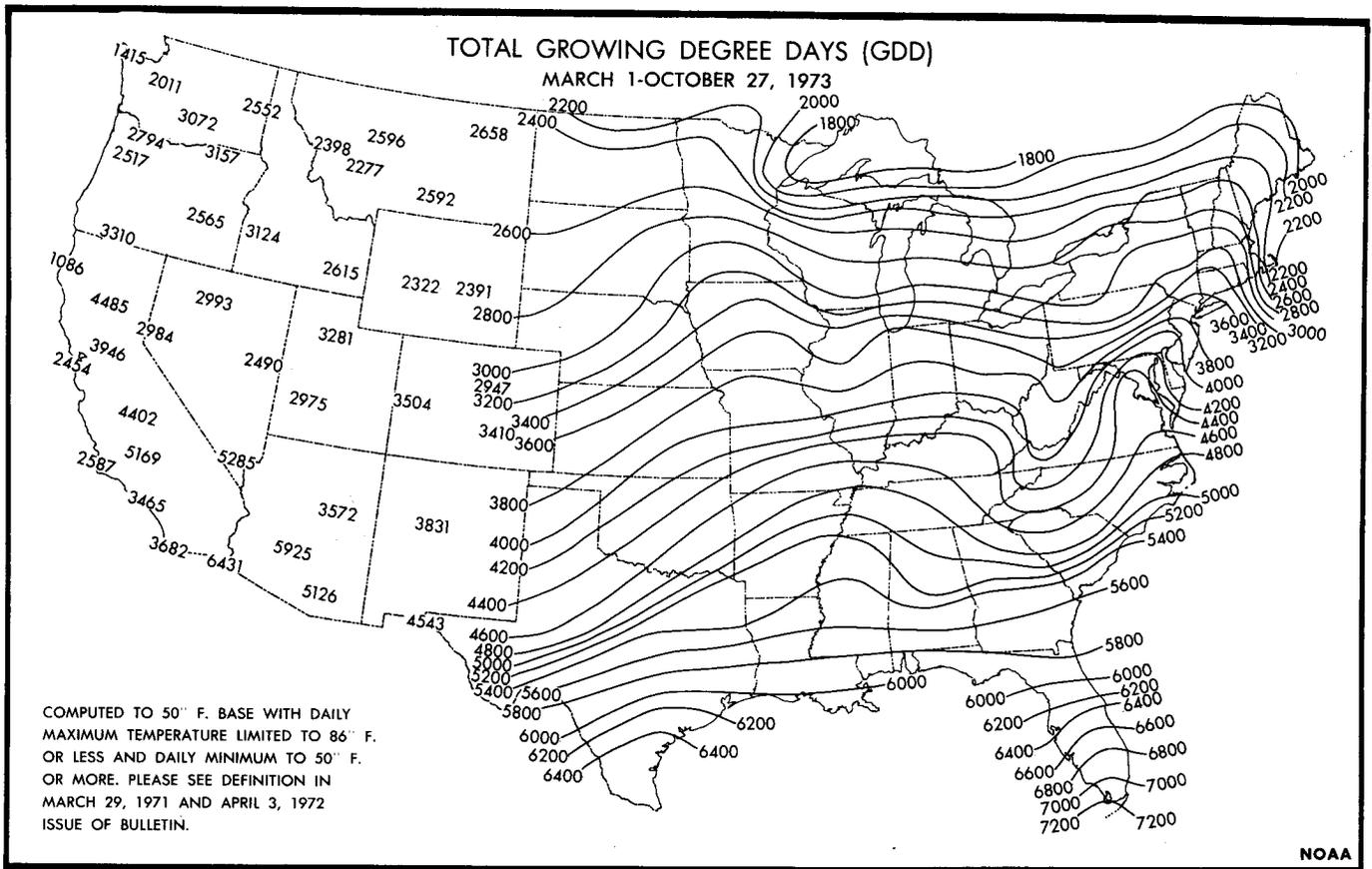
**KANSAS:** Temperatures averaged 3° to 6° above normal. Cooling trend began midweek, temperatures dipped from 5° to 10° subnormal by Monday morning. Scattered frosts Saturday and Monday mornings. Heavy rains, some hail southeast corner Friday afternoon. Less than 0.25 in. northeast, dry most western counties.

Harvesting fall crops, seeding winter wheat very active. Wheat planting 80% complete, 100% 1972, average 95%. Seeding virtually complete western third. Sorghum for grain 30% harvested, 35% 1972, average 55%. Quality below normal with considerable dockage. Corn for grain 25% harvested, 55% 1972 and average. Soybean acreage harvested 30%, 60% 1972, average 65%. Sugar beet harvest active. Ranges and pastures excellent. Some cattle on volunteer wheat. Very little fall seeded winter wheat being grazed.

**KENTUCKY:** Fair and unseasonably warm until weekend. Rain and subnormal temperatures weekend. Temperatures for week 3° to 8° above normal. Rainfall totaled less than 0.50 in. west, 1.00 in. east. Weather ideal for corn and soybean harvest. Soil moisture 81% short, 19% adequate.

Corn 67% harvested, 1972 55%. Yield and quality good. Later corn suffered from summer drought reducing average yield in some western and west-central counties. Soybeans 56% harvested, 47% 1972. Yields highly variable, late beans generally less. Freeze would benefit by killing weeds in late beans. Burley stripping 9% complete, 13% 1972. Humidity too low for stripping. Reporters indicate 47% ready for stripping if weather cooperates. Seeding winter wheat active, neared completion many areas. Rain needed for fall small grains and pastures.

**LOUISIANA:** Clear, mild, open days and cool nights highlighted most of week. Cold front late Saturday and early Sunday brought cooler temperatures but little rainfall. Average temperatures mostly



3° to 5° above normal. Extremes: 89° Minden Tuesday, 38° Monroe Monday. Open weather allowed farmers to make good progress harvesting crops and seeding small grains and pasture. Soil moisture adequate except short some areas southeast. Fieldwork averaged 6.4 days.

Cotton matured rapidly, 90% open, 25% picked, 55% 1972. Corn harvest 85% complete, 3 weeks later than 1972. Soybeans 30% combined, 60% 1972. Rains earlier damaged some mature beans. Late crop rice and stubble crop good. Few fields remain for harvest, except stubble, south; near 90% complete north. Sweet potato harvest active, 80% complete, 90% 1972. Sugarcane 15% cut, 1972 20%. Yields not high as expected some fields. Small grain seeding good progress, 75% oats, 70% wheat sown. Armyworms prevalent, controls active. Hay harvest neared completion. Pastures good with active armyworm control. Calving begun. Livestock good.

**MARYLAND-DELAWARE:** Warm week. Temperatures near normal except 4° above normal southern Maryland and northern Delaware areas. Dry week with no measurable precipitation. Third straight week excellent harvest weather. Corn harvest practically done in south, well along in north. Soybean combining very active, some beans too dry for best harvest. Apple picking neared completion. Too dry for pastures and grain seedings until rain started late Sunday.

**MICHIGAN:** Generally mild through Thursday with highs in 70's and lows 40's and 50's, but frost reported most places lower peninsula Monday

morning. Cold front passed Thursday and low pressure moved across southern lower State Sunday. Rain statewide. Temperatures 3° to 9° above normal. Daytime highs mainly in 30's and 40's as week ended. Precipitation totaled from less than 0.10 in. east upper to around 0.30 in. southwest lower to 0.50 to 1.50 in. other areas mostly over weekend. Snow and snow with rain upper State Saturday night with traces reported on ground.

Fall harvest leaped forward thanks to warm dry weather. State averaged 6 days suitable for fieldwork. Soil moisture ranged from short to adequate until weekend rains. Grain corn drying down rapidly. Corn 52% harvested, average 32%. Elevators clogged with corn. Soybeans 74% harvested, average 51%. Fall potatoes 95%, sugar beets 65% harvested. Early planted winter wheat top growth excessive. Pasture feed supplies below average. Apple harvest about finished all areas. Rapid progress with cabbage, carrot and cauliflower harvest.

**MINNESOTA:** Temperatures 5° to 9° above normal until subnormal on 27th and 28th. Precipitation did not occur for most districts first 5 days of week. Amounts last 3 days spotty and generally less than 0.25 in.

Favorable weather permitted 6 days for harvesting fall crops. Soybean harvest advanced rapidly and neared completion, about 1 week ahead normal progress. Moisture content down to 12%. Corn harvest 50% completed, slightly ahead average. Moisture content corn 22%, artificial drying needed for safe storage. With current cooler tempera-

tures, picked ear corn being stored temporarily in cribs or piles on ground. Potato harvest about completed and sunflowers 87% combined. Soil moisture supplies surplus some southeast and northwest localities, elsewhere mostly adequate.

**MISSISSIPPI:** Pleasant autumn weather. Mild, sunny days and fair cool nights. Temperature extremes: 92° to 40°. A few light showers midweek along coast otherwise no precipitation. Weekend cold front brought rainfall but amounts generally light. Temperatures a little cooler.

Soil moisture very short to surplus, mostly adequate. Fieldwork averaged 6.1 days. Cotton harvest 48% complete, 26% previous week, 72% 1972. Soybeans 35% harvested, up from the 20% harvested previous week, but less than the 40% harvested this time a year ago. Harvest of other crops: Corn 70%, 75% 1972; sorghum 82%, 93% 1972; rice 93%, harvest complete 1972; hay 86% complete. Field crops fair to good. Pasture and livestock mostly good.

**MISSOURI:** Temperatures ranged 5° to 10° above seasonal normal. Warmest over west half of State. Precipitation late in week, largest amounts fell in west Ozark zone. Rainfall scattered elsewhere.

Fieldwork: 6 days suitable. Soybean harvest 52% complete, 52% 1972. Corn harvest 31% complete, 47% 1972. Grain sorghum harvest 49% complete, 56% 1972. Cotton harvest 50% complete, 43% 1972. Intended fall seeding 56% completed, 78% 1972. Pasture conditions good to excellent. Soil moisture supplies adequate to surplus.

**MONTANA:** Warm beginning and end of week. High temperatures in 60's and 70's, 4° to 8° above normal. Lows mostly in teens and 20's. Precipitation subnormal except west. Scattered showers with snow showers higher elevations.

Harvest virtually complete except for a few sugar beets. Moving and marketing livestock more active. Fall plowing major activity. Soil dry northcentral and parts of northwest, western part of central and much of southwestern districts. Winter wheat mostly fair in dry areas, mostly good elsewhere. Livestock 80% moved from summer ranges. Feeding hay starting in forage-short areas of northwest, northcentral, central, and southwest.

**NEBRASKA:** Few light rain showers northern third. Temperatures above normal through midweek, then below normal. Soil moisture supplies declined. Topsoil 10% surplus, 90% adequate. Subsoil 19% surplus, 81% adequate. Fieldwork: 7 days.

Tremendous progress harvesting sorghum and soybeans. Corn harvest lagging as farmers allowing corn to dry down in field to conserve fuel. Corn for grain 25% harvested, 30% 1972, 40% average. Corn 22% moisture, same 1972, 23% week ago. Sorghum 75% harvested, 50% 1972, 60% average. Sorghum 16% moisture, 15% 1972, 16% week ago. Soybeans 85% harvested, 75% 1972, 85% average. Soybeans 13% moisture, 12% 1972, 14% week ago. Wheat improved, 21% excellent, 54% good, 21% fair, 4% poor. Sugar beets 75% harvested. Range and pasture 27% above average, 68% average, 5% below average. Hay and forage supplies 15% excellent, 82% average, 3% below average. Some cattle gleaned stalk field.

**NEVADA:** Temperatures ranged 2° above normal southcentral to 3° below in northeastern. High 89° Logandale, coldest 11° Mountain City. Precipitation varied from 1.10 in. Carson City to none southcentral and extreme south. Alfalfa harvest neared completion. A few seventh cuttings obtained southern valleys. Cotton harvest starting and potato

harvest in full swing. Planting of winter grains continued. Movement of livestock to winter ranges underway. Livestock in good flesh.

**NEW ENGLAND:** Temperatures moderated, warm Tuesday and Wednesday, especially south. Colder Saturday. Concord, N. H., was 19° by early Sunday. Rainfall well under normal. Little, if any, measurable rainfall most areas. Tropical Storm Gilda late in week brought rain only to outlying coastal areas.

**NEW JERSEY:** Warm. Temperatures 1° to 7° above normal. Extremes ranged from 30° Newton Tuesday morning to 78° at Newark Saturday afternoon. Very dry till a storm spread rain Sunday night. Heaviest amount reported this Monday morning was 1.62 in. at Freehold. Heavy rains halted all fieldwork. Soil moisture beneficial to fall planted grain and cover crops. Cabbage, lettuce, cauliflower, broccoli and spinach continued in light supply. Apple and cranberry harvest neared completion. Corn for grain and soybean harvests will resume as weather permits.

**NEW MEXICO:** Second straight rainless week statewide. Warm Monday and Tuesday. Sharp cooling north midweek, slight warming toward weekend. Eagle Nest had 14° Wednesday and 15° Thursday. Temperatures averaged slightly below normal northwest, near normal elsewhere. Only moderate windiness. Cotton, grain sorghum, broomcorn harvest continued, crops good condition. Corn silage harvest complete. Winter wheat, barley stands good, need moisture. Alfalfa good, fourth cutting north, fifth and sixth south. Apple harvest near completion. Lettuce harvest at peak. Ranges fair to good. Livestock good. Other crops satisfactory.

**NEW YORK:** Typical Indian summer weather early week --warm days and cool nights until Saturday. Temperatures early week averaged 3° to 5° above normal. Warmest 81° at Rochester on October 25. Lows generally in mid-30's to lower 40's. By weekend cold air advanced across State and highs were 10° to 12° cooler than earlier part of week. Precipitation light over much of State and ran well below normal. Only exception far west where 0.50 to 0.75 in. rain fell. Most rain past week fell near Buffalo.

**NORTH CAROLINA:** Dry weather continued except for a few showers near north coast as Tropical Storm Gilda moved northward offshore. Temperatures ranged from mid and upper 50's in mountains to mid and upper 60's over coastal plain. Precipitation occurred only over northern and central coastal plain. Soil moisture drastically short--98% of State has short to very short moisture supply.

Fieldwork averaged 5.2 days. Corn growers eastern part have most of crop picked--statewide, 88%. Peanut harvest virtually complete, harvest ahead of past 2 years. Cotton picking approaching mid-point, most fields fully open. Soybeans 23% harvested, ahead of 1972. Seeding small grains continued at good pace, 47% seeded. Pastures short. Sweet potatoes 80% dug.

**NORTH DAKOTA:** Daytime temperatures much above normal but cooled at end of week. Nighttime temperatures above normal, dropping to near normal at end of week. Varying amounts rainfall toward end of week. Precipitation well below normal southwest, about 50% of normal central, eastcentral and northwest, near normal northcentral and extreme southeast, and about one-third above normal extreme northwest. Subnormal temperatures and scattered

showers over weekend. Conditions favored harvest of late crops. Corn picking, soybean and sunflower combining full swing. Other activities: Fall tillage and application of fertilizer. Pastures and ranges furnishing good fall grazing.

**OHIO:** High pressure produced pleasant weather: Sunny, mild days and clear, cool nights prevailing from the 22nd through the 25th when a cold front moved through State followed by partly cloudy weather on 26th. Low pressure extending from Great Lakes to Ohio Valley produced rain late on 27th and 28th, heaviest amounts over eastern half of State.

Corn harvest pushed to halfway mark in ideal week. Another fine week for all types fieldwork. Maximum soybean, corn, and sugar beet harvest activity stimulated. Corn for grain harvest 25% in 1972, normal 50%. Completeness ranges from 75% northwest to 35% eastcentral. Soybeans 85% harvested, 45% 1972, 75% normal. Sugar beets 70% lifted, 6 weeks ahead of 1972, normal average 45%. Winter wheat 95% seeded. Nearly 7 days fieldwork. Soil moisture 56% short, 44% adequate.

**OKLAHOMA:** Temperatures normal southeast to 7° above normal northeast. No precipitation reported until weekend when light to moderate showers occurred most areas. Fieldwork progressed rapidly under clear skies. Small grain seeding progress about same as 1972.

Wheat acreage 92% seeded, 95% 1972. Barley 88% seeded, 91% 1972. Oats 88% planted, 90% 1972. Sorghums 99% mature, 47% harvested, 1972 40% harvested. Cotton 79% bolls open, 5% harvested; in 1972 99% bolls open, 24% harvested. Soybeans 22% combined, 86% mature. Corn 47% picked, nearly all mature. Peanuts 47% combined, 98% mature. A few pecans beginning to fall. Livestock good. Pastures and ranges remained very good for this season of year.

**OREGON:** Substantial statewide rains. Heavier south. Grants Pass, Medford, Klamath Falls weekly amount exceeded their normal October rainfall. Temperatures near normal. Highs 60's - 70's, lows mid-30's and mid-40's west Cascades, into 20's east.

Fall grain seeding well advanced. Fall plowing for summer-fallow continued. Early fall planted crops up, look good. Harvest hay, silage complete. Sugar beet, filbert, walnut harvest nearly complete. Potato digging continued. Ranges, pastures improved. Cattle moving off summer range.

**PENNSYLVANIA:** Indian summer through Saturday--warm days; cool nights. Temperatures 4° to 6° above normal. Daily highs mostly 50's north and 60's to mid-70's south. Overnight lows generally 30's north and 40's south with some frost nearly all sections midweek. Extremes 75° and 26°. No rain until Sunday night through end of period when 1.00 to 2.00 in. fell southwest, only traces northeast. Dry, pleasant weather allowed continued fall harvest. Farmers: harvested corn for grain and picked winter apples.

**PUERTO RICO:** A week of southerly winds caused record highs and little or no rain in all except south. Rainfall averaged 0.65 in. or about 1.00 in. subnormal. Highest weekly rainfall 2.73 in. southeast coast. Crop moisture conditions near normal all zones except too dry parts of central and north. Temperatures averaged 81° coast and 75° interior. High 93°, low 57°.

Sugar cane plantations continued good progress harvesting with new crop maturing well in favorable weather. Tobacco plantations seeding in all but

central zones where lack of rain and high daytime temperatures prevented fieldwork and hindered development of growing crop. Pasture zones active fertilizing and cultivating with most areas in good condition except some central and northwestern zones too dry for optimum development. Minor crop zones active seeding and fertilizing with good abundance of fruit crops on market except in central zones where insects were active due heat and lack of rain.

**SOUTH CAROLINA:** Temperatures near to few degrees above normal. Greatest departure was 5° to 6° above normal south. Rainless in west and central; however, northward passage of Tropical Storm Gilda off coast caused scattered showers. Heaviest rainfall 2.03 in. at Bears Bluff near Charleston. Much colder weather approached end of week.

Soil moisture short. Cotton 58% harvested, 55% 1972. Corn 86% harvested; 82% 1972. Soybeans 70% mature; 15% harvested, 11% 1972. Pastures fair. Winter grazing 65% planted, 42% emerged, 1972 80% planted. Wheat and oats fair. Wheat 21% planted, 13% emerged; 17% planted 1972. Oats 28% planted, 17% emerged, 1972 22% planted. Stands of winter grazing and small grains spotty. Fall vegetables fair. Harvesting cucumbers and squash continued.

**SOUTH DAKOTA:** Second straight week of beautiful fall weather. Temperatures ranged 2° to 9° above normal. Highs in mid-70's to upper 80's. Lows in upper teens to lower 20's. Precipitation amounts quite light. However, several areas southeast received more than 0.50 in. last Wednesday and early Thursday.

Drier weather has allowed harvest of row crops to advance but harvest remains behind normal. Corn 52% harvested, last year 44%, normal 56%. Sorghum for grain 58% harvested, last year 45%, normal 76%. Soybeans 80% harvested, same as a year ago but behind normal of 88%. Fall seeded grains good to excellent. Heavy infestation of cheat grass in some winter wheat fields west. Most areas reporting adequate feed supplies. Calf marketings have started in most areas but generally slower than normal.

**TENNESSEE:** Weekend rain averaged near 1.50 in. over midstate and east to less than 0.50 in. west. Fair weather prevailed during week. Temperatures 3° above normal east portion to 6° above normal mid and west. Soybeans 25% harvested, 67% mature, about 1 week behind normal. About 1 more week without a killing frost should allow most of remaining soybeans to mature. Crop in excellent condition.

Cotton 90% open bolls, 50% picked, about normal. Yields continued disappointing. Boll weevils have caused some damage. Corn 50% harvested, only slightly behind normal. Nearly all corn mature. Early corn looks good but late corn poor. Dry weather delayed stripping tobacco although foggy, humid mornings have helped some areas. About 35% stripped, nearly normal, but considerably less than 1972. Small grain plantings progressing at near normal rate despite hard, dry soil. New seedings need rain badly to develop properly before winter. Wheat 67% seeded. Oats and barley 85% seeded.

**TEXAS:** Temperatures for week mild to cool. Precipitation generally light. Week began mild and dry, but a cold front brought light showers and cooler weather by the week's end. Moist air began returning Wednesday, following 2 days of mild, dry weather. Late Wednesday a cold front brought increased shower activity Thursday and Friday.

However, rainfall remained light. Some locally heavy thunderstorms dumped 1.00 in. rain over central and east. Front pushed southward into Gulf of Mexico Sunday leaving Texas fair and cool.

Planting wheat, oats resumed after clear, dry weather. Early stands good growth, grazing available low plains to southcentral Texas. Short moisture part of high plains slowed wheat development, some grazing available. Harvesting cotton, corn, sorghum, peanuts, rice and soybeans resumed. Harvest progress rapid but most crops behind 1972 schedule. Peanut grade and yield decreased result recent wet weather. Farmers resumed harvest cotton Lower Rio Grande Valley and coastal bend. Major crops percent planted: Wheat 91, 1972 91; Oats 84, 1972 86. Major crops percent harvested: Cotton 22, 1972 33; Corn 92, 1972 97; Sorghum 69, 1972 71; Soybeans 34, 1972 52; Peanuts 69, 1972 79. High Plains: Light supplies of lettuce, carrots, peppers and tomatoes still available. Trans-Pecos: Fall lettuce harvest in full swing in El Paso County. Coastal Bend: Harvest of cucumbers and squash underway. San Antonio-Winter Garden: Light cabbage harvest started. Cucumber picking remained active. Lower Rio Grande Valley: Vegetable seeding became active again latter half of week as fields dried. Cucumber and pepper harvest back in full swing with warm, dry weather. Citrus harvest slowed first part of week by rains but became active again by midweek as picking crews able to enter groves. Pecan harvest underway most areas. Livestock excellent. Native and improved pastures make good growth but armyworm damage present and persisting later than usual. Screwworm cases continued heavy south Texas. Heavy mosquito population serious nuisance.

UTAH: Scattered showers, rain and snow north portion forepart period and again latter part. Little or no moisture reported south. Amounts north locally moderate to heavy. Temperatures 1° to 7° above normal. Soil temperatures 4-inch depth ranged from low 50's Cache Valley to mid-50's Salt Lake City and Richfield and near 70° St. George.

The 1973 crop season virtually closed. Percent completion of harvest late crops: potatoes 95%, sugar beets 97%, dry onions 96%, dry beans 100%. Corn for grain 20% harvested. Alfalfa hay harvest virtually complete. Over 90% of cattle and sheep moved down from high summer ranges.

VIRGINIA: Generally clear and dry through Saturday. Widespread cloudiness with rain spreading statewide Sunday. Temperature extremes: 82° and 26°. Averaged slightly above normal. Ideal fall harvesting weather continued, 6.1 days suitable for fieldwork. Topsoil moisture 84% short, 16% adequate. Rainfall over weekend and early Monday should help alleviate problems.

Corn 63% harvested statewide, nearing halfway mark northern areas, 33% west, neared completion southeast. Peanuts 93% dug, 84% picked. Heavy volume has caused some storage problems. Soybean harvest moved rapidly, 31% complete. Wheat acreage 59% seeded, oats and barley 77%. Cotton harvest active. Grading burley tobacco active, marketing

flue-cured. Cabbage, snapbeans, sweet potatoes and pumpkin harvest active. Apple harvest past peak. Pastures declined all areas except southwest mountains.

WASHINGTON: West: Precipitation through week from 0.20 to 1.50 in. Temperatures above normal. Farmers harvesting lettuce, celery, cabbage, potatoes and carrots. Harvest sweet, silage corn nearly complete. Halloween pumpkin harvest in full swing. Planting fall grains near completion. Cleanup cane-berry fields continued. Range and pasture feed short to adequate. Recent rains increased forage for livestock.

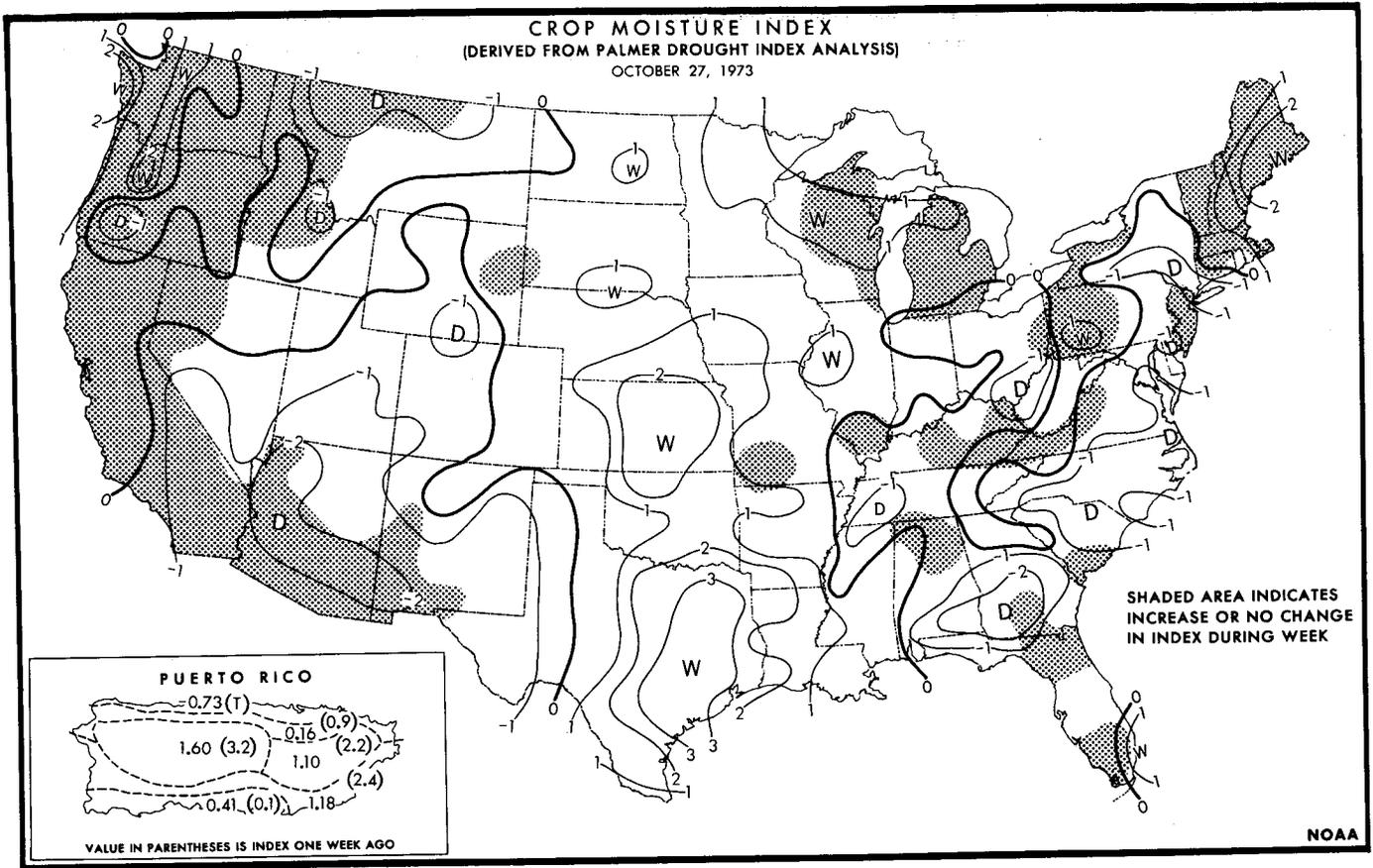
East: Rain first 4 days from 0.30 to 0.90 in. Temperatures 4° above normal. Below freezing some localities. Planting winter grains with some areas nearing completion. Emerged stands good condition. Some weed control may be necessary. Bluegrass seed field growth slowed by seasonal drought. Harvest potatoes, sugar beets, grain corn, fall carrots continued. Spinach nearly complete. Fourth cutting alfalfa lost or badly damaged by rain. Limited apple picking late areas. Orchard cleanup continued. Pastures, livestock good. Early sale calves continued.

WEST VIRGINIA: Temperatures near normal. Highs generally in 70's. Lows in the 30's and 40's with some 20's higher elevations. No precipitation reported across State except 0.01 in. at Marlinton. Farmers harvested corn for grain, planted wheat and barley.

WISCONSIN: Temperatures 8° above normal. Sunny and pleasant through Wednesday with daytime temperatures in 70's. Cooler towards weekend with rain moving in on Saturday and Sunday. Heaviest rainfall east where up to 2.00 in. fell, lightest in west. Light snow mixed with rain north.

Harvesting of crops very active until weekend. Corn for grain 50% harvested, 1972 20%, average 1968-72 37%. Moisture content of corn has dropped considerably in last 2 weeks of pleasant fall weather. Yields vary but below previous 2 years, quality very good. Soybeans 66% combined, 1972 20%, average 1968-72 33%. Moisture content low, quality good. Yields vary, poorer southeast. Fall plowing 45% done, 1972 25%, normal 40%. Getting little dry for plowing until weekend rains. Harvesting potatoes, vegetables mostly complete. A good crop of cranberries mostly harvested. Some picking of late apple varieties. Tobacco curing well now in sheds. A little green chopping of hay. Pastures and new seedings good. Soil moisture 30% short, 70% adequate.

WYOMING: Warm, dry weather through 23rd, cool weather thereafter. Showers east and north on 24th. Temperature extremes: 83° Guernsey Dam; 6° Big Piney. Fall crop harvest neared completion except corn for grain only 30% picked compared 50% last year. Sugar beet harvest 80% complete, 16.8 % sugar content expected. Livestock good. Fall marketings at slow pace. Prospects for winter grazing fair to good, some feed shortages indicated.



**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
- 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.

Agricultural Climatology Service Office  
South Building Mail Unit  
U. S. Department of Agriculture  
Washington, D.C. 20250

## IMMEDIATE - U. S. Weather Report

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