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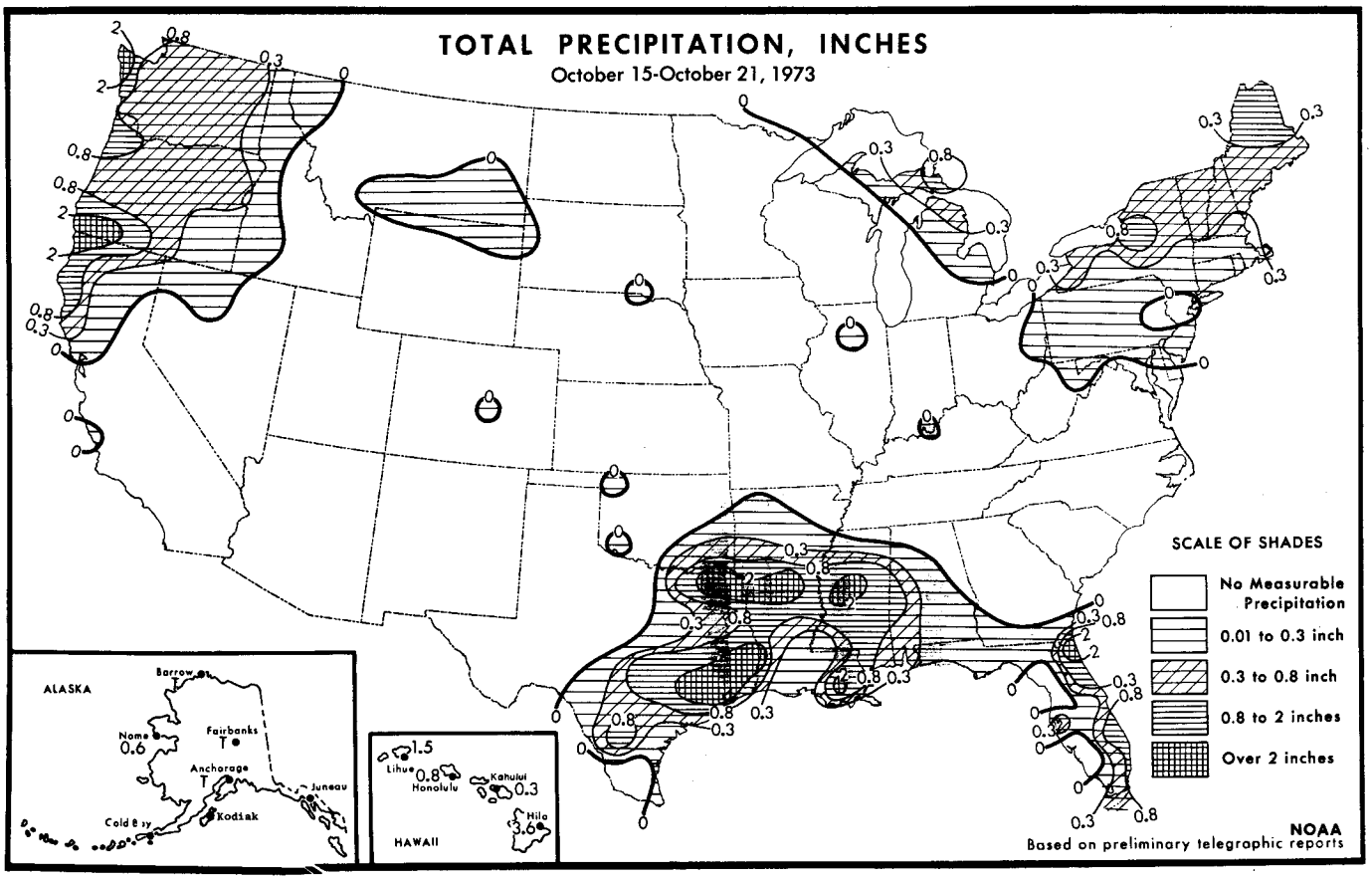


NATIONAL WEATHER SUMMARY

HIGHLIGHTS: Fall began to invade the East. Richmond, Va., and Raleigh, N. C., fell below freezing Thursday morning, and there were snow flurries in the northern Appalachians early Saturday. The West had higher than normal temperatures, in contrast. Several record highs were broken in the Southwest on Wednesday. Nationwide, it was dry. No rain fell at all over most of the Nation. Only spots in Texas, the Deep South, and the Pacific Northwest had 2.00 in. rain or more.

PRECIPITATION: A huge High, centered on Alberta as the week began and over New York as it ended, dominated last week's weather. It brought cool, dry Canadian air to most States. In fact, Wednesday, there was no thunderstorm anywhere in the 48 contiguous States--the first thunderstormless day in several months.

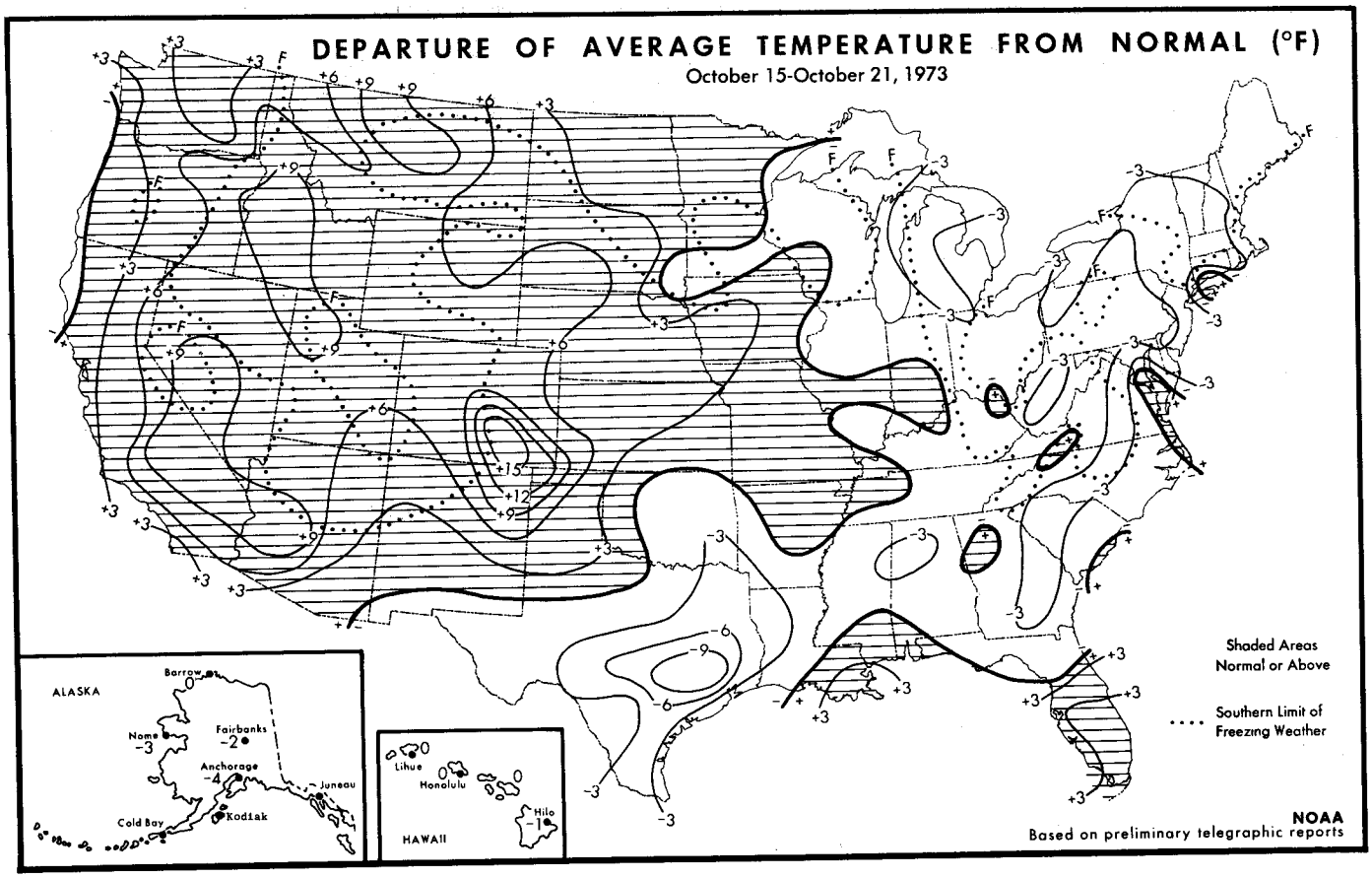
Ironically, floods were reported in several areas the same day--the runoff from some of last week's torrential rains.

While widely scattered showers dampened the north border States, Texas and the Delta area got most of Monday's rain. Over 1.00 in. rain fell near Shreveport, La., mostly in 6 hours in the morning. Through Tuesday morning, most of the Nation's rain fell again on Texas-Delta locations: Greenwood, Miss., 1.95 in., Waco, Tex., 1.05 in., Eldorado, Ark., 0.60 in.

Later Tuesday a week-long rain started to end in east Texas, leaving rivers flooded. The Nueces River had more than 10 feet of overflow, while the lower Guadalupe was 9 feet out of banks.

Wednesday was a day of widespread dryness. The most morning rain: 0.13 in. at Erie, Pa. Although it sprinkled at a few eastern Great Lake locations, not a single thunderstorm erupted--the first time the 48 contiguous States have been a whole day without a thunderstorm in some months. However, rivers in Texas and Missouri, swelled by last week's torrential rains, flooded from runoff under clear skies.

Also, tropical storm Gilda was born in a depres-



sion about 425 miles south of Miami, Fla., and 140 miles south of Cuba's south-central coast. By early Thursday evening, Gilda moved over central Cuba with winds at 60 m.p.h. By early Friday afternoon, the storm was north of Cuba, 240 miles south of Miami, Fla. It spread showers across southeast Florida. By Saturday night, Gilda had moved away from the United States, through the Bahamas.

Meanwhile a continent away in the Pacific Northwest, rain appeared about midday Friday and rapidly moved inland to Idaho. Quillayute, Wash., got 1.00 in. rain Saturday morning. Sunday morning Brookings, Ore., recorded 1.89 in. rain. Many other Northwestern locations recorded rain--mostly under 0.33 in.

At 2 p.m. Sunday, Brookings had recorded 2.50 in. rain for the previous 24 hours. The Northwest had clouds and rain, a few sprinkles wet Florida--otherwise Sunday was clear and sunny at most places.

TEMPERATURE: Seasons began to turn in the East, fairly close to schedule. Temperatures mostly averaged within 3° of normal, notwithstanding some subfreezing temperatures after midweek at several mid-Atlantic cities and in the upper Mississippi Valley.

Western temperatures averaged mostly above normal. Southwestern desert areas, some Rocky Mountain areas, and part of Montana, averaged 9° above normal; one Colorado area averaged 15° above the norm. While several record highs were recorded in the Southwest, the Northwest stayed mostly above the freeze mark except for high mountain areas.

Many western mountain areas were below freezing on Monday, but the Nation's coldest area was the Green River Valley, where Big Piney, Wyo., recorded 21°. Meanwhile, Miami, Fla., enjoyed the highest overnight low, 76°. Later Monday, a Canadian High pushed cool air into the Plains, Mississippi Valley, and Lake States, and by Tuesday a cold mass of air extended from east New Mexico to the Virginia Coast. Temperatures stayed in the 50's from the northern Plains to the East Coast along the northern tier of States.

Wednesday morning lows pushed first frosts into parts of the South. Falmouth, Ky., recorded 27°. Hibbing, Minn., recorded 23°, for the Nation's cold spot. While Wednesday was cool most places, new record highs were chalked up in the Southwest: Phoenix, Ariz., 99°, Flagstaff, Ariz., 78°.

Thursday, the cold struck closer to the Atlantic. Salisbury, Md., recorded 32° for the 2 a.m. low, but as the morning progressed, it fell to 30° at Richmond, Va., and Raleigh, N. C. Augusta, Ga., fell to 34°, equalling the record low. By 2 p.m. Marquette, Mich., shivvered at only 40°, the National low, while Thermal, Calif., roasted at 97°, the Nation's hottest spot.

Overnight Thursday-Friday subfreezing temperatures were recorded in the west central Rockies, eastern Great Lakes area, and eastern Ohio Valley. The 40's were common over a wide swath of the Nation. About the same story repeated itself the next night: Hibbing, Minn., was the Saturday morning cold spot, 29°. However, on Saturday, the 40's extended into southern Alabama and Texas. However, the sun warmed things to 70's and 80's in many areas. Sunday morning the cold reached farther south; Tallahassee, Fla., began the day at 56°, while it was coldest, 30°, at Alpena, Mich.

NATIONAL AGRICULTURAL SUMMARY

AGRICULTURAL HIGHLIGHTS: A week of dry, sunny weather favored farm fieldwork across the Nation. Seeding and reseeding winter wheat resumed in the southern Great Plains while corn and soybean harvesting made excellent progress. Wet fields continued to delay the Texas cotton harvest.

SMALL GRAINS: A mild, rainless week let farmers in the southern Great Plains get going again on seeding and reseeding winter wheat after 5 weeks of delays from wet weather. In Kansas, where seeding is 2 weeks behind normal, wheat was 65% seeded by October 21 compared to 100% last year and the normal average of 95%. Many fields in the eastern two-thirds of Kansas are being reseeded because of last week's heavy rains.

Reseeding operations held wheat planting progress in Oklahoma to 75% complete, no change from a week earlier and behind 1972 progress of 93%. Wheat is 97% seeded in Colorado and 85% seeded in Texas where wet fields delayed planting until late in the week. Small grain seeding progress is normal in the eastern Corn Belt and South Atlantic States, but dryness is delaying seeding in the east South Central States.

Winter wheat seeding is about complete in Montana and Idaho; most areas have adequate moisture and emerged wheat is in good condition. Fall small grain seeding neared completion in Washington and Oregon; most emerged seedings look good.

CORN: Dry, sunny weather enabled Corn Belt farmers to increase corn harvesting momentum. Nationwide corn harvesting advanced 11 points to about 29% complete by October 21 compared to 34% complete a year earlier.

The ideal weather favored drying wet soil and corn in the field. By October 21 about 25% of the Corn Belt corn crop was harvested, ahead of the 22% progress a year earlier, but behind the normal average of 31% harvested. Harvesting corn was 30% complete in the eastern Corn Belt, but only 21% complete in the western part where recent rains soaked fields and slowed harvesting.

The Iowa corn harvest advanced to 18% complete versus the usual 28% completed. Illinois corn harvesting gained to 30% complete versus the usual 44% completed. Nebraska corn was only 15% harvested, less than all other Corn Belt States while Ohio at 33% was most advanced.

COTTON: Rain soaked fields continued to set back Texas cotton harvesting for the fourth straight week. Some farmers were able to get into the fields late in the week. The Texas cotton harvest advanced only 2 points from the previous week to 17% complete compared to 32% complete a year earlier.

Farmers in other southern States made good progress harvesting cotton. The acreage in the 11 major cotton States from Oklahoma and Texas eastwards was 20% picked, well behind the 40% picked a year earlier. Mississippi cotton advanced to 26% picked versus 64% in 1972. Arkansas cotton increased to 28% picked versus 55% in 1972. Percent of bolls opened ranges from 64% in Oklahoma to 78% in Mississippi.

Cotton harvesting was in full swing in California and Arizona under favorable weather. Harvesting increased in New Mexico.

SOYBEANS: About one-fourth of the Nation's soybean crop was harvested during the week ending October 21 as widespread, sunny, dry weather provided ideal harvesting conditions. About 43% of the Nation's soybean crop is harvested compared to 46% a year earlier.

The good weather permitted Corn Belt farmers to work almost every day and late into each night combining soybeans. The extra effort got 34% of the Corn Belt soybean crop harvested in one week and pushed the harvest to 57% complete, only slightly behind last year's 59% and the normal average of 66%.

Excellent progress was made in the eastern Corn Belt where 70% of the beans were in the bin, equal to normal progress. Western Corn Belt soybeans advanced to 45% harvested, behind 1972 progress of 61% and the usual 62%. In the South, soybean harvesting increased to 15% complete, behind last year's 24% complete.

OTHER CROPS: Sorghum grain harvesting in Texas was set back by rain soaked fields but progress of 69% complete is almost equal to last year's 70% complete. Harvest progress continued to lag behind 1972 and average at 29% done in Oklahoma and 20% done in Kansas. Nebraska sorghum is 45% harvested, equal to 1972 and average.

Peanut harvesting is running well ahead of last year in North Carolina with 90% combined and also in Virginia at 72% combined. Wetness continued to delay the Texas harvest only 55% done versus 75% in 1972.

Potato harvesting reached the midpoint in Washington and neared completion in North Dakota and Minnesota.

Sugar beet harvesting increased in California and was full swing in Washington while Colorado's harvest was 29% done.

FRUITS AND NUTS: Weather continued to favor apple picking now over 75% done in most orchards. Late varieties were being picked in the Pacific States.

Cranberries are 90% harvested in Massachusetts and 80% done in New Jersey.

Citrus trees in Florida remained excellent. Citrus harvest progressed normally in Florida but was slower than usual in Texas.

Pecans matured rapidly in the south and harvesting increased.

VEGETABLES: Northeast vegetable harvesting neared completion; although, much cabbage, lettuce, and other crops were available.

Cooler temperatures benefited Florida vegetable crops with most in early stages of harvest. Tropical Storm Gilda ruffled some Florida crops but caused little damage.

Market tomatoes in California were heavily culled due to recent rains which also hampered planting and crop progress in much of Texas.

PASTURES AND LIVESTOCK: Northern pastures remained green and provided grazing. Most pastures and ranges throughout the central and southern Great Plains were in excellent condition with very little wheat being grazed. Arizona ranges suffered from dryness.

Most livestock in the West have been moved from high elevation summer ranges but abnormally warm weather last week slowed the movement.

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., Oct. 21, 1973

States and Stations	Temperature °F Average	Temperature °F Departure	Precipitation Inches Total	Precipitation Inches Departure
ALA.Birmingham	62	- 3	T	- .7
Mobile	70	0	.4	- .3
Montgomery	65	- 1	T	- .5
ALASKA.Anchorage	30	- 4	T	- .4
Barrow	16	0	T	- .1
Fairbanks	23	- 2	T	- .2
Juneau	--	---	---	---
Kodiak	--	---	---	---
Nome	26	- 3	.6	+ .2
ARIZ.Flagstaff	53	+ 7	0	- .4
Phoenix	80	+10	0	- .1
Tucson	70	+ 1	0	- .1
Winslow	58	+ 1	0	- .2
Yuma	80	+ 7	0	- .1
ARK.Fort Smith	61	- 2	.2	- .6
Little Rock	64	+ 1	.2	- .5
CALIF.Bakersfield	75	+ 9	0	- .1
Eureka	53	- 1	1.6	+ .9
Fresno	69	+ 5	T	- .1
Los Angeles	72	+ 5	0	- .1
Red Bluff	67	+ 2	T	- .3
San Diego	68	+ 2	0	- .1
San Francisco	62	+ 2	T	- .2
Stockton	69	+ 5	0	- .1
COLO.Denver	59	+ 8	0	- .2
Grand Junction	60	+ 6	0	- .2
Pueblo	70	+16	0	- .2
CONN.Bridgeport	56	+ 1	T	- .7
Hartford	49	- 4	.1	- .5
D.C.Washington	59	0	T	- .7
FLA.Apalachicola	71	0	T	- .5
Daytona Beach	77	+ 4	.8	---
Ft. Myers	79	+ 3	T	-1.0
Jacksonville	70	- 1	2.4	+1.2
Key West	81	+ 2	.3	-1.1
Lakeland	75	+ 1	T	- .6
Miami	80	+ 2	.9	-1.4
Orlando	77	+ 3	.2	- .8
Tallahassee	67	- 2	.2	- .3
Tampa	77	+ 3	.5	- .2
W.Palm Beach	79	+ 1	.8	---
GA.Atlanta	63	+ 1	0	- .5
Augusta	60	- 5	0	- .4
Macon	64	- 2	0	- .4
Savannah	65	- 2	0	- .6
HAWAII.Hilo	74	- 1	3.6	+1.2
Honolulu	78	0	.8	+ .4
Kahului	77	0	.3	+ .1
Lihue	77	0	1.5	+ .6
IDAHO.Boise	60	+ 9	.2	0
Lewiston	58	+ 6	.1	- .2
Pocatello	56	+ 7	T	- .2
ILL.Cairo	62	+ 1	0	- .6
Chicago	53	- 2	T	- .6
Moline	54	- 1	T	- .5
Peoria	54	- 1	0	- .5
Rockford	51	- 2	0	-1.0
Springfield	57	0	0	- .6
IND.Evansville	58	- 1	0	- .5
Ft. Wayne	51	- 2	T	- .7
Indianapolis	56	+ 1	0	- .6
South Bend	52	- 1	0	- .7
IOWA.Burlington	55	0	0	- .6
Des Moines	57	+ 3	0	- .5
Dubuque	52	+ 2	0	- .6
Sioux City	57	+ 3	0	- .3
KANS.Concordia	61	+ 4	0	- .4
Dodge City	64	+ 6	0	- .3
Goodland	57	+ 4	0	- .2
Topeka	61	+ 3	0	- .6
Wichita	61	+ 1	0	- .5
KY.Lexington	56	- 1	0	- .5
Louisville	59	+ 2	0	- .4
La.Baton Rouge	70	+ 1	.2	- .8
Lake Charles	68	- 2	.2	- .5
New Orleans	73	+ 3	1.0	+ .4
Shreveport	64	- 4	1.3	+ .7
MAINE.Caribou	40	- 2	1.3	+ .5
Portland	46	- 2	.4	- .3
MD.Baltimore	54	- 3	.2	- .5
MASS.Boston	52	- 2	.1	- .6
Chatham	51	---	.4	---
MICH.Alpena	42	- 4	.4	- .4
Detroit	49	- 2	T	- .5
Flint	48	- 2	.1	- .5
Grand Rapids	48	- 3	T	- .6
Houghton Lake	43	- 3	.2	- .5
Lansing	46	- 5	T	- .6
Marquette	47	- 1	.3	- .2
Muskegon	49	- 3	T	- .6
S. Ste. Marie	42	- 4	1.6	+1.0
MINN.Duluth	43	- 1	T	- .5
Internatl Falls	43	+ 1	T	- .4
Minneapolis	50	+ 1	0	- .3
Rochester	50	0	T	- .4
St. Cloud	48	+ 1	0	- .4
MISS.Jackson	64	- 2	1.0	+ .6
Meridian	65	0	1.3	+ .8
MO.Columbia	59	+ 2	0	- .7
Kansas City	61	+ 1	0	- .6
St. Louis	58	0	0	- .7
Springfield	60	+ 1	0	- .9
MONT.Billings	56	+ 6	.1	- .2
Glasgow	53	+ 8	0	- .1
Great Falls	57	+10	0	- .1
Havre	54	+ 8	0	- .2
Helena	49	+ 4	0	- .2
Kalispell	48	+ 5	T	- .3
Miles City	55	+ 6	.2	0
Missoula	50	+ 6	0	- .2
NEBR.Grand Island	57	+ 4	0	- .2
Lincoln	57	0	0	- .3
Norfolk	56	+ 3	T	- .2
N.Platte	54	+ 3	0	- .2
Omaha	58	+ 4	0	- .4
Valentine	56	+ 7	T	- .2
NEV.Ely	53	+ 8	0	- .2
Las Vegas	73	+ 8	0	T
Reno	57	+ 8	0	- .1
Winnemucca	54	+ 7	T	- .2
N.H.Concord	43	- 5	2.8	+2.2
N.J.Atlantic City	52	- 5	.1	- .6
Trenton	54	- 2	T	- .6
N.MEX.Albuquerque	59	+ 1	0	- .2
Roswell	62	+ 3	0	- .2
N.Y.Albany	46	- 4	.2	- .4
Binghamton	46	- 3	.3	- .4
Buffalo	47	- 3	.5	- .2
New York	56	- 2	T	- .8
Rochester	48	- 3	.2	- .3
Syracuse	49	- 2	1.0	+ .3
N.C.Asheville	56	- 1	0	- .6
Charlotte	58	- 4	0	- .7
Greensboro	57	- 2	0	- .6
Hatteras	65	0	0	-1.0
Raleigh	57	- 3	0	- .6
Wilmington	63	- 2	0	- .7
N.DAK.Bismarck	48	+ 1	0	- .2
Fargo	49	+ 2	0	- .3
Williston	49	+ 4	0	- .2
OHIO.Akron-Canton	51	- 1	T	- .5
Cincinnati	54	- 1	0	- .5
Cleveland	52	- 1	T	- .5
Columbus	53	- 1	0	- .4
Dayton	53	- 2	0	- .5
Toledo	49	- 3	T	- .6
Youngstown	49	- 3	T	- .6
OKLA.Okla. City	62	- 1	0	- .6
Tulsa	62	- 1	0	- .8
OREG.Astoria	53	0	.6	-1.0
Burns	53	+ 5	.3	+ .1
Medford	53	+ 1	2.3	+1.9
Pendleton	59	+ 6	.6	+ .3
Portland	57	+ 3	1.0	+ .2
Salem	55	+ 1	.8	0
PA.Allentown	51	- 2	T	- .7
Erie	49	- 1	.3	- .4
Harrisburg	53	- 2	T	- .7
Philadelphia	54	- 1	T	- .6
Pittsburgh	51	- 2	.1	- .5
Scranton	48	- 3	.2	- .6
R.I. Providence	50	- 3	T	- .7
S.C. Charleston	66	0	0	- .6
Columbia	62	- 2	0	- .5
Greenville	58	- 4	0	- .8
S.D. Aberdeen	51	+ 3	T	- .3
Huron	52	+ 4	T	- .3
Rapid City	57	+ 6	T	- .2
Sioux Falls	49	- 1	T	- .3
TENN.Chattanooga	59	- 2	0	- .7
Knoxville	58	- 2	0	- .6
Memphis	63	0	0	- .6
Nashville	61	0	0	- .5
TEX.Abilene	65	- 1	T	- .7
Amarillo	64	+ 4	T	- .4
Austin	62	- 9	1.3	+ .7
Beaumont	67	- 3	1.0	+ .4
Brownsville	73	- 3	.1	- .7
Corpus Christi	72	- 2	.2	- .4
Dallas	--	---	---	---
Del Rio	68	- 3	T	- .5
El Paso	63	- 1	0	- .2
Fort Worth	64	- 4	.2	- .4
Galveston	72	- 1	.7	+ .1
Houston	60	-10	2.6	+1.8
Lubbock	64	+ 3	T	- .5
Midland	63	- 2	0	- .4
San Angelo	64	- 4	T	- .4
San Antonio	67	- 3	.6	+ .1
Victoria	70	- 3	.1	- .7
Waco	65	- 4	.2	- .4
Wichita Falls	68	+ 2	T	- .7
UTAH.Blanding	57	+ 5	0	- .3
Salt Lake City	60	+ 9	0	- .2
VT.Burlington	44	- 3	.4	- .3
VA.Lynchburg	56	- 2	0	- .6
Norfolk	61	0	0	- .6
Richmond	55	- 3	0	- .7
Roanoke	57	0	0	- .7
WASH.Colville	51	+ 5	.4	0
Omak	50	+ 2	.6	+ .4
Quillayute	54	+ 3	2.5	+ .1
Seattle-Tacoma	55	+ 3	.5	- .4
Spokane	54	+ 6	.2	- .1
Walla Walla	60	+ 5	.3	- .1
Yakima	53	+ 3	.4	+ .3
W.Va.Beckley	51	- 2	0	- .6
Charleston	54	- 3	0	- .6
Huntington	57	0	0	- .6
Parkersburg	55	- 2	0	- .5
WIS.Green Bay	47	- 2	T	- .4
La Crosse	52	+ 1	0	- .5
Madison	49	- 1	T	- .5
Milwaukee	49	- 1	T	- .5
WYO.Casper	54	+ 6	T	- .2
Cheyenne	55	+ 8	0	- .2
Lander	54	+ 7	0	- .3
Sheridan	53	+ 5	.1	- .2
P.R.San Juan	84	+ 3	1.2	+ .8

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: It showered west and southwest Tuesday; clear skies, mild days and cool nights followed. Coldest temperatures of this season early Thursday, 30's north and 40's south. Low, 28°, and heavy frost reported at Valley Head in DeKalb County.

Cotton harvest progressed well. Nearly 20% harvested, 40% 1972, 5-year average 50%. Corn for grain almost 50% harvested. Soybeans rapidly reaching maturity, slightly less than 20% combined, 33% 1972. Harvest more advanced south and central. Only a few fields of peanuts remained to be dug as harvest neared completion. Seeding of small grains active. Rain needed to bring these crops up to a stand. Pecans fell rapidly many orchards, harvest increased.

ARIZONA: Sunny, warm, extremely dry. Cooling trend except southeast. Temperatures ranged from few degrees above normal northeast to 10° above Salt River Valley. Cotton harvest continued, weather favorable. Yields Pima County variable, yields Yuma County below expectations. Sorghum harvest progressing normally south. Fall, spring sugar beets satisfactory progress. Alfalfa seed harvest Yuma County neared completion, yields about normal. Alfalfa hay harvest very limited. Planting, renovating continues Yuma area. Lettuce harvest continued Cochise County. Early lettuce, broccoli, cabbage good progress Yuma area. Thinning active, planting, preparation later planting continued. Cantaloupes fall harvest sizing well. Lettuce, mixed vegetables good progress central areas. Fall cantaloupe harvest underway.

Lemon harvest continued slow. Labor tied up planting, thinning vegetables. Prices remain firm. Groves generally excellent condition. Ranges fair to poor statewide. Higher ranges central, east mountains provided limited grazing. Lower ranges north, southeast dry, feed supplies dwindled rapidly. Desert ranges extremely dry. Prospects for winter feed poor. Stockwater short, many areas hauling water. Cattle, calves good. Sheep, lambs fair to good. Fall lambing underway.

ARKANSAS: Rain first of week extreme south. Warren measured 3.90 in., Eudora 3.32 in. No rain fell northcentral and northeast early week. Rainless statewide after Tuesday. Temperatures near normal, upper 50's north and mid-60's central and south. Scattered frost north Wednesday morning. Extremes: Calico Rock, 32°, Brinkley, 89°.

Rains and soil moisture slow harvest. Cotton 77% open. Only 28% picked, 55% 1972. Rice 81% cut, 95% 1972. Soybeans good, harvest gaining momentum, 5% combined. Sorghum and corn harvest active. Seeding wheat and oats delayed by moisture conditions and late harvest of beans. Some early plantings being grazed. Cooler weather lowering presence of insects.

CALIFORNIA: Precipitation over weekend. Temperatures about 5° above normal. Greatest departure from normal in San Joaquin Valley where most stations reported highs in 90's. Desert temperatures peaked at 100°. Some central coast stations had highs into 90's.

Small grain seeding continued, earlier planted grain up. Rice harvest made good progress. Milo harvest normal. Cotton harvest full swing. Defoliation active with some retreatment. Dry bean harvest declined. Final alfalfa being baled. Sugar beet harvest increased, slowed some by rains. Field corn harvest about complete. Sugar level wine grapes lower than normal. Walnut, apple harvest active. Almond, apricot, prune orchards pruned. Pomegranate splitting. Persimon yields light. Date harvest active, fruit smaller than 1972. Avocado fruit dropping, Hass affected most. Some lemons sunburned. Valencia orange harvest almost complete, remaining poor quality. Navel oranges maturing rapidly.

Artichoke continued. Broccoli, cauliflower moderate Salinas, good supply Santa Maria. Brussels sprouts continued. Carrot digging moderate Salinas. Celery heavy Salinas. Sweet corn start next week Bakersfield. Salinas lettuce neared completion, San Joaquin increased. Bell pepper moderate Salinas, Santa Maria; light San Joaquin. Onion, potato digging continued north. Sweetpotato increased Livingston. Heavy cullage market tomatoes, rain damage. Processing tomato declined sharply. Deliveries this week expected light, mostly south. Few fields lost from rains past 2 weeks. Considerable yield reduction late acreage. Recent rains beneficial on ranges, pastures most areas. Virtually all livestock moved from mountain ranges. Supplemental feeding active. Sheep central valley on stubble, alfalfa as lambing progressed normally. Fall calving active. San Joaquin Valley turkeys to processors.

COLORADO: Beautiful Indian summer. Highs in middle to upper 70's, and 50's and 60's high mountain valleys. Lows in 30's and 40's except teens and 20's in high mountain valleys. Cooler air moved into east Tuesday. Lowering temperatures there to 60's and low 70's. Colorado Springs received 0.01 in. of drizzle from this system. Otherwise exceptional week of pleasant weather with above normal temperatures and no precipitation.

Favorable weather for final seeding and reseeding of winter wheat and harvest activity. Winter wheat 97% seeded, 87% emerged. Barley 97% seeded, 81% emerged. Wheat and barley condition good to excellent. Corn silage 96% cut. Grain sorghum silage 73% cut. Corn 93% mature, behind 1972. Grain sorghum 53% ripe, harvest in early stages. Fall potato harvest returned to active status. Dry bean harvest almost complete, 98% cut, 87% threshed. Sugar beets entered harvest good, 29% harvested. Yields generally below year ago. Alfalfa harvest continued. Pastures, ranges remained good. Livestock good to excellent. Livestock markets active.

FLORIDA: Windy. Temperatures very near normal. Rainfall mostly light except moderate to locally heavy along east coast. Soil moisture short west, north and central, adequate most other areas.

Corn and peanut harvest about complete. Soybean harvest in full swing, yields very good. Cotton picking proceeding rapidly. Hay harvest virtually complete. Land preparation and seeding of small grains delayed because of dryness. Sugarcane good. Pastures central, south poor to fair, west good. Cattle good. Citrus tree condition excellent, natural fruit coloring progressing very well, fruit splitting no problem, harvest progressing normally.

Some vegetable crops ruffled by Gilda's brisk

northeast winds but wind burn and blowing sand damage not serious. Cooler temperatures very beneficial for increased bloom, fruit set. Sweet corn, radishes continue in good volume with Zellwood now supplementing Everglades harvest. Beans, cucumbers, eggplant, peppers, squash, tomatoes, escarole, endive, lettuce, other leafy vegetables in first stages of harvest with supplies to increase seasonally in November as cabbage, celery round out supply picture.

GEORGIA: Temperatures averaged near normal. Coldest early Thursday with near freezing mountains, scattered frost north third, and isolated pockets of frost central. Continued dry with no rain most areas, except isolated light showers averaging 0.10 in. extreme northwest and also extreme southeast. Dry and warmer over weekend. Soil moisture short to very short most areas with exception of few counties extreme northwest and southeast where adequate. Crop harvest progressing rapidly.

Peanut harvest almost over, bumper crop, total 1.32 billion pounds inspected through October 19. Corn mostly good, 55% harvested. Cotton fair to mostly good, 41% picked. Soybeans fair to mostly good, 16% harvested. Pastures, cattle and hay crops mostly good. Seeding small grains 43% complete. Dry weather slowing progress. Pecan harvest underway.

HAWAII: Rains fell over most areas and benefited pastures and crops. Drought conditions now over in dry areas. Progress of crops improving, vegetable supply about adequate. Production of banana and papaya heavy. Pastures expected to improve. Cattle condition fair to good. Sugar harvest normal. Light harvest pineapples.

IDAHO: Indian summer. Temperatures 3° to 10° above normal. North central moderate precipitation early week; however, storm systems started moving into State on weekend bringing rain to north and southwest. Excellent weather for farming.

Potato crop 85% dug statewide, ranging from 80% to 90% in major areas. Sugar beets 33% lifted with more harvested southcentral and east than southwest. Seeding fall grains neared completion north, 90% complete south and east. Moisture short some northern localities, generally adequate other areas. Harvesting of onions, dry edible beans, late hay crops and alfalfa and crops in clean-up stage. Dryland pasture and ranges greening in response to warm weather and recent rains. Cattle moving to markets and feedlots.

ILLINOIS: Widespread precipitation first part of week; dry spell, pleasant conditions balance of week. Temperatures at or slightly below normal. Corn nearly 30% harvested, 22% 1972, 1970-72 average 44%. Soybeans 75% harvested, about same as 1972, average 80%. Grain sorghum about 20% harvested.

Winter wheat seeding about 80% complete, same as 1972 and average. Fall plowing of land intended for corn and soybeans 15% complete, slightly behind normal. Pastures excellent 26%, good 63%, fair 10%, poor 1%. Soil moisture short 2%, adequate 87%, surplus 11%. Averaged nearly 6 days suitable for fieldwork. Main activities: Harvesting corn and soybeans, fall plowing, winter wheat seeding, applying fertilizer.

INDIANA: Dry sunny week. Sunshine 90% of possible. First frost in east and interior south on 17th, minimums 27° to 29°. Scattered frost west and northwest. Low humidities and high evaporation favored natural drying of crops. Excellent week for harvesting corn and soybeans.

Fieldwork averaged 5 days. Topsoil and subsoil moisture short to mostly adequate. Corn 30% harvested, average 25%, 15% in 1972. Soybeans 65% harvested, 60% average, 35% in 1972. Wheat 80% seeded, 75% average, 50% 1972. Wheat 55% emerged, stands rated mostly good to excellent. Rye 85% seeded. Barley 90% seeded. Apples 85% picked, 70% in 1972. Pastures steady, still rated mostly fair.

IOWA: No precipitation. Six sunny days. Temperatures 3° above normal. Frost covered northern half morning of 16th. Previous week with no precipitation ended November 4, 1968. Most recent week with no measurable precipitation ended December 4, 1972. Fieldwork 6 days suitable. Topsoil moisture supplies 66% adequate, 34% surplus. Corn 18% harvested, 5-year average 28%. Soybeans 55% harvested, 5-year average 68%. Grain sorghum 28% harvested, 5-year average 45%. Winter wheat 66% planted, behind 5-year average of 90%. Motor fuel supplies 6% short, 94% adequate.

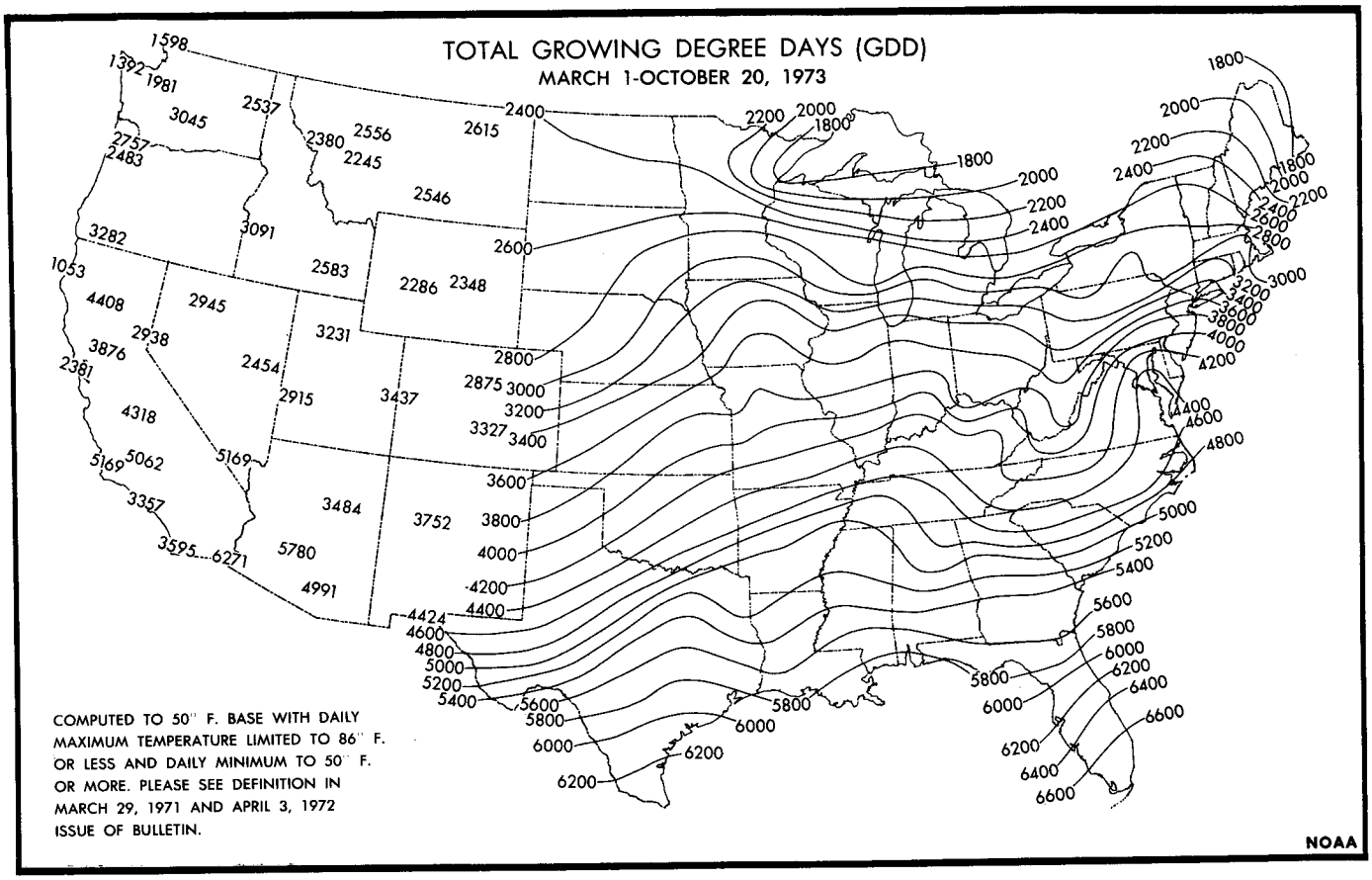
KANSAS: Only measurable rainfall reported, 0.02 in. in Harvey County. Temperatures averaged above normal, ranging from 5° to 6° above west and northeast to 1° above southeast.

Farming operations very active. Winter wheat 65% seeded--2 weeks behind normal. Last year 100% seeded, average 95%. Many fields being reseeded, especially eastern two-thirds. Seeding nearly complete west, good stands most fields. Winter barley seeding 45% completed, 90% 1972 and average. Sorghum grain 85% matured, 90% 1972 and average. Sorghum grain 20% harvested, 30% 1972, 40% average. Quality down because of sprouting, fungus, discoloration. Corn for grain 95% matured, same 1972, average 100%. Corn for grain 20% harvested, 45% 1972 and average. Soybeans 10% harvested, 45% 1972 and 50% average. Sugar beet harvest active. Ranges and pastures excellent. Very little wheat being grazed.

KENTUCKY: No rainfall. Normal temperatures throughout week. First Autumn freeze east and central midweek. Fieldwork: 6 days favorable. Ideal harvesting weather. Soil moisture 54% adequate, 46% short. Corn harvest 45% complete, 43% 1972. Soybean harvest 39% complete, 36% 1972. Burley tobacco 36% ready for stripping, another 7% stripped. Fall wheat seeding 57% complete. Pastures good to excellent.

LOUISIANA: Showers early week, cold front midweek, remainder mild and clear. Temperatures normal to 3° below except slightly above some areas southeast. Extremes: 86° New Orleans; 40°, Ashland and Winnfield. Precipitation light most areas except locally heavy some sections north. Greatest 1-day total, 2.01 in. Reserve rains early week halted fieldwork until near end of period. Fieldwork: 2.8 days. Soil moisture mostly surplus except adequate southeast.

Cotton 65% open, 10% harvested, grade lowered many fields. Rice harvest made little progress, most south complete, north over 75%. Stubble harvest begins next week southern parishes. Soybean harvest active late week, 25% harvested, yields lower than expected some fields. Sugarcane harvest gaining momentum, more mills grinding, planting nearing completion. Sweet potato harvest active late week, yields good. Pecans good, yields, some nuts low quality. Small grain seeding little progress, 60% sown. Heavy infestation armyworms several parishes. Pastures good. Livestock good.



MARYLAND-DELAWARE: Temperatures near normal except 3° subnormal southern Eastern Shore. Scattered light frosts late in week. Precipitation light, 1.00 in. Garrett County, 0.25 in. central Maryland across northern Delaware, none other areas. Corn and soybean harvests progressed rapidly. Seeding small grain continued. Rain needed for good germination and growth especially northcentral and western areas. Apple picking active but past peak.

MICHIGAN: Cold frontal passages Monday, Thursday and Friday. Temperatures averaged up to 5° subnormal northeast lower to near normal west upper and southwest lower. Moderate to heavy frost over State weekend mainly Friday night when lows ranged in upper 20's many lower peninsula areas to lower 30's upper. Rainfall totaled over 1.50 in. east upper to around 0.50 in. northern lower to none some west upper and southwest lower communities.

Rapid progress with fall harvest. Killing frost many areas. Soil moisture mostly adequate. State averaged 5.2 days suitable for fieldwork. Corn 93% mature. Grain corn 31% harvested, average 20%. Corn silage 95% harvested. Soybeans 89% mature, 55% harvested, average 40%. Fall potatoes 88%, sugar beets 36% harvested. Colored and late Navy dry bean harvest completed. Winter wheat planting nearly finished. Excellent germination and large growth of most wheat fields. Pasture feed supplies near average. Apple harvest about finished southwest and westcentral, nearing completion elsewhere. Cabbage, carrot and cauliflower harvest well along.

MINNESOTA: Temperatures continued near normal to just above with afternoon highs mostly in 50's and 60's and overnight lows in 30's and 40's. A hard freeze, 25° or colder, has not occurred only in northern third of State. Precipitation: None or traces, except for less than 0.05 in. northeast quarter. Past week good for drying, sunny combined with low humidities.

Dry, warm weather favored field drying of corn and enabled 5 days for harvesting soybeans, sugar beets, sunflowers and potatoes. Soybeans 64% combined, normal 61%; reported average moisture content 13%. Grain corn 29% harvested, average 27%; 25% moisture--artificial drying necessary. Potatoes, sugar beets nearly all dug -- about 1 week ahead of average. Sunflowers 80% combined. Soil moisture mostly adequate and favorable for fall plowing of harvested soybean and corn fields. A few localities northwest and southeast still too wet for field equipment.

MISSISSIPPI: Occasional rain, quite heavy some west and central counties, ended late Tuesday. Beautiful weather followed. Warm early week, but much cooler mornings resulted from cold front moving southward. Temperatures slightly above normal. Extremes: 93° along coast; 33° northeast. Rainfall of 4.34 in. at Nitta Yuma on 16th. Clear skies with warm afternoons and moderately cool nights continued through weekend. Soil moisture short to surplus, mostly adequate. Harvesting delayed first of week several areas due to rain. Fieldwork averaged 3.7 days.

Cotton 26% harvested, 64% 1972. Cotton 78% open, 86% 1972. Soybeans 20% harvested, 35% 1972, other

acreage 38% mature, 49% 1972. Rice 80% combined, 97% 1972. Corn 48% harvested, 70% 1972. Harvest of other crops: Sorghum 65% sweet potatoes 62%, peanuts 82% and hay crop 95% harvested. Field crops and pastures mostly fair to good. Pecans poor to excellent. Livestock mostly good.

MISSOURI: Temperatures near to a little above normal. No general killing frost but some scattered frost reported for 17th when temperatures fell into the mid-30's. Dry week but preceeded on 12th, 13th with scattered thundershowers with amounts varying from less than 0.25 in. to over 2.00 inches across central and southeast. Fieldwork: 5-days suitable. Soybeans 74% mature, 19% harvested, 46% harvested 1972. Corn 19% harvested, 42% 1972. Grain sorghum 28% harvested, 52% 1972. Cotton 27% harvested, 42% 1972. Fall grain seeding 39% complete, 69% 1972. Pastures mostly good to excellent. Soil moisture 59% adequate, 41% surplus.

MONTANA: Above normal temperatures, little daily variation. Highs 70° to 80° midweek. Lows in 30's except 20's southwestern and northcentral. Precipitation scarce and subnormal falling only in west, southcentral and southeast.

Harvest of potatoes and sugar beets neared end. Potatoes 85% done, sugar beets 65%. Rains needed northwest and northcentral to maintain winter wheat stands. Winter wheat good except parts northwest where stands average poor to fair and western parts of northcentral and central where condition mostly fair. Range feed short western third and parts of southcentral. Livestock movement from summer range slow as warm weather continued, 75% cattle and sheep moved from summer ranges.

NEBRASKA: Dry, light winds. Temperatures 5° to 10° above normal. Soil moisture supplies declined: Topsoil 24% surplus, 76% adequate; Subsoil 33% surplus, 67% adequate. Fieldwork: 6.5 days. Excellent progress harvesting sorghum and soybeans. Weather nearly ideal. Some fields wet and muddy.

Corn for Grain 15% harvested, 20% 1972, 25% average. Harvested corn averaged 23% moisture, 24% 1972, 27% week ago. Hard freeze desired to kill stalks, promote faster drying. Sorghum 45% harvested, same 1972 and average; 16% moisture, same 1972, 19% week ago. Soybeans 45% harvested, 65% 1972, 70% average; 14% moisture, 13% 1972, 17% a week ago. Wheat 8% excellent, 58% good, 29% fair, 5% poor. Sugar beet harvest near halfway mark. Dry bean harvest almost complete. Ranges and pastures 33% above average, 63% average, 4% below average. Ranchers moving cattle to fall and winter pastures. Feedlots drying up.

NEVADA: Temperatures 4° to 7° above normal. Extremes: 93°, Logandale; 20°, McDermitt. Only precipitation 0.10 in. at McDermitt and 0.01 at Winnemucca. Sixth cutting alfalfa neared completion southern valleys. Hay elsewhere complete. Potato harvest continued Humboldt County. Cotton defoliated Pahrump Valley, picking to begin soon. Livestock good, movement active.

NEW ENGLAND: Fair weather, few showers beginning and end of week, totals averaged less than 0.25 in. Temperatures cool but pleasant, extremes 22° Concord, N. H., 73° Bridgefort, Ct. Generally good harvest weather. Still cutting silage, picking late apples. Cranberries 90% harvested, frost damage negligible.

NEW JERSEY: Cool, dry. Temperatures normal to 4° subnormal. Extremes ranged mid-70's last Monday afternoon to 28° at Newton this Monday morning. Precipitation very light. Heaviest amount reported 0.10 in. at Millville and Pomonda Tuesday morning. Soil moisture short. Light frost several nights.

Cabbage, lettuce and "greens" available. Eggplant, peppers, squash and spinach moving. Sweet potato harvest continued. Apple harvest 75% completed. Cranberry harvest about 80% complete, most growers finished. Weather good for field corn and soybean combining. Cover crops and fall grains need rain.

NEW MEXICO: Dry Statewide, slight cooling east plains Tuesday, gradual warming mid and late week. Stable temperatures elsewhere with weekly averages mostly 4° to 5° warmer than normal.

Grain sorghum good, harvest 50% complete. Corn silage harvest complete, some corn earworm. Winter wheat, barley stands good, some greenbugs reported. Cotton shows effects of earlier frost damage, harvest activity increased. Alfalfa good, fourth and fifth cutting neared completion. Apple and potato harvest neared completion. Ranges fair to good. Livestock good.

NEW YORK: Temperatures near to slightly subnormal. Milder weather Monday gave way to cooler weather midweek but temperatures moderated again toward weekend. Highs exceeded 70° only at New York City, 74° and Poughkeepsie, 71°. Weekly low 25° at Massena. Rainfall 1.00 in. at Syracuse was almost 0.33 in. above normal. Elsewhere precipitation amounts ranged from more than 0.50 in. below lower Hudson Valley and coastal southeast where less than 0.10 in. fell, to between 0.25 and 0.50 in. subnormal at other stations. However, rain fell frequently last week occurring at some time during 4 or 5 days at most locations with exception of southeast.

NORTH CAROLINA: Passage of cold front Sunday brought only sparse amounts of rain. Widespread frost Thursday morning in Mountains and Piedmont and portions of Western Coastal Plain. Temperatures plunged into 20's in Mountains and into low and mid-30's as far East as the Central Coastal Plain.

Fieldwork averaged 4.9 days. Harvesting conditions remained excellent. Soil moisture adequate in Mountains, supplies short to very short in Piedmont and Coastal Plains. Corn 85% harvested. Cotton 35% picked. Peanuts 97% dug, 90% combined. Small grains 37% planted. Sweet potatoes 75% dug. Soybeans 10% combined. Cabbage harvest getting underway northeast.

NORTH DAKOTA: Mild days, cold nights. High temperature 81° at Beulah. Low 20° at Bottineau. Temperatures above normal, greatest deviation southwest, 8° above normal. Precipitation very scarce, all divisions subnormal. Lemmon reported greatest amount of 0.12 in. while Beulah recorded 0.03 in. East central division greatest deviation with 0.30 in. subnormal. Weekend warm days and mild nights for a great Indian summer.

Fair weather permitted good progress in late row crop harvest. Potato and dry bean harvest virtually completed and sugar beet lifting 95% finished. Sunflower combining well past halfway mark. Pastures still green and providing feed. Livestock marketing little slower than normal for this time of year.

OHIO: High pressure dominated weather. Fair to partly cloudy skies over most sections. Sunny, mild days and cool, clear nights prevailed. Frost

many locations north and east morning of 19th. Some scattered frost on 21st. Ideal weather and field conditions enabled farmers to make rapid progress of corn and soybean harvest.

Farmers worked day and night many areas harvesting row crops and seeding small grains. Nearly 6 days favorable for fieldwork. Soil moisture supplies rated short 26%, adequate 72% and 2% surplus. Corn for grain 33% harvested, 20% 1972, 1968-72 average 40%. Harvest of corn for silage nearing completion. Soybeans 70% harvested, 40% 1972, normal 65%. Fall potatoes 90% dug. Sugar beet crop over 33% harvested. Popcorn harvest nearly 60% finished. Apple crop 75% picked. Grapes 90% harvested. Winter wheat seeding 85% complete.

OKLAHOMA: Temperatures 3° subnormal southeast to 3° above normal panhandle. Precipitation ranged from none in panhandle to 2.04 in. southeast. Weekend mild and dry. Drying weather most week, fieldwork begun many areas by midweek. Seeding small grains remained behind 1972. Flood clean-up prime activity northcentral counties.

Reseeding operations held wheat acreage to 75% seeded, same as week ago, 93% seeded 1972. Barley and oats little over 67% seeded. Sorghums 96% mature, 29% harvested, 1972 37%. Cotton harvest slow, 2% harvested, 64% bolls open; 1972 21% harvested, 97% bolls open. Soybeans 12% combined, 66% mature. Corn 42% picked, 96% mature. Peanuts 21% combined, 98% mature--about 2 weeks behind 1972. Livestock good. Early planted small grains pasture providing excellent forage many areas. Stocker cattle movement increasing.

OREGON: Temperatures near normal northwest 4° to 8° above elsewhere. Highs in mid-60's, mid-70's along coast; in 70's interior. Medford warmest with 81°. Lows in 30's and 40's. Rainfall over weekend from 0.80 to 2.00 in. southwest corner.

Fall grain seeding nearly complete. Fall plowing for summer-fallow underway. Mint planting underway. Most silage, hay cutting completed. Sweet corn harvest nearly completed. Cool season vegetables continued. Seed potato harvest underway; digging for fresh market, processing continued all areas. Sugar beet, apple, filbert, walnut harvests continued. Livestock good. Ranges, pastures improved.

PENNSYLVANIA: Mostly dry and cool. Scattered showers midweek generally less than 0.10 in except 0.25 to over 0.50 in. parts northwestern mountains. Some snow flurries northern mountains. Sunny pleasant weekend. Temperatures mostly 50's and 60's daytime, 30's and 40's overnight. Extremes 76°, 24°. Weekly mean temperatures 2° to 5° subnormal except near normal southwest and southeast corners.

Corn picking between 25% and 33% complete. Slightly ahead of 1972. Yields appear good. Silage harvest about over. Soil moisture adequate. Pasture production average or better than average in most areas. Late season forage growth being grazed or chopped for green feed. Picking winter apples. Potato harvest nearly finished.

PUERTO RICO: Rainfall averaged 1.05 in. or 0.70 in. subnormal. Highest weekly total 4.59 in. western Cordilleras with 3.09 in. in 1 day. Eastern mountains averaged 1.00 to 3.00 in. but rest of island generally less than 1.00 in. Dry belt of little or no rain along north and west coasts. Temperatures averaged 80° coasts, 75° interior. High 93°, low 58°.

Young sugarcane developed well, good fieldwork progress. Coffee harvesting active, crop continued to mature well under favorable weather. Good progress planting, development tobacco seedbeds. Pastures generally good to excellent all zones except fair northwest due dryness. Good progress in minor crop zones with fieldwork including seeding, fertilizing. Lack of rain northwest slowing development of maturing crop. Good abundance of squash southcentral zones.

SOUTH CAROLINA: Temperatures near normal ranging from above normal Sunday and Monday to well below last half week. Below freezing readings in a few locations Thursday morning. Frost in areas of poor air drainage in northwestern and western portions. Rainless week.

Dry. All growing crops need more moisture. Cotton harvest full swing: Some defoliating, 46% harvested, 40% 1972. Corn 78% harvested, 81% 1972. Soybeans good, 6% harvested, 11% 1972. Pecans, pastures fair. Winter grazing 57% planted. Wheat and oats fair. Wheat 20% planted, 16% 1972. Oats 23% planted, 25% 1972. Fall hays 82% harvested, 92% 1972. Fall vegetables fair to good. Harvesting squash, snap beans, late cucumbers.

SOUTH DAKOTA: Lovely fall weather most areas. Temperatures 3° to 9° above normal. Northeast highs mostly in 60's; elsewhere from mid-70's into low 80's. Lows in mid-20's to mid-30 range. Widely scattered showers and light rains Monday and Tuesday, amounts less than 0.10.

Excellent drying weather prevailed. Significant advances in harvest of row crops. Even though conditions improved, harvest of row crops still behind schedule. Corn harvest 32% complete, 1972 34%, normal 42%. Sorghum for grain 44% harvested, 1972 33%, normal 63%. Soybeans 52% harvested, 1972 and normal both 71%. Some light ear droppage, lodging in corn and sorghum. Some shattering of soybeans. A killing frost would still benefit eastern third to help drying. Fall seeded grains good to excellent. Most pastures green and supplying some feed. Calves in many areas being weaned and some going to market. Livestock good.

TENNESSEE: Rain over weekend of October 13 to 15 averaged near 0.50 in. Fair thereafter. Frost on 18th mainly east half. Temperatures near normal east, 2° to 3° above normal middle and west. Light frosts during week did no damage to crops except fall vegetables.

Soybeans 10% harvested, 20% most years. An additional 33% is mature; normal 60% mature. Crop looks good and if allowed to mature will give above average yields. Another 10 to 15 days of frost free weather needed in important western soybean area. Corn for grain 33% harvested, about 90% mature. Normally 50% of corn fields picked this date. Crop continued to look good. Cotton acreage 20% picked, another 50% having open bolls but not picked. Usually about 33% harvested. Yields disappointing. Tobacco stripping made good progress, about 30% complete, about normal. Oats and barley about 80% seeded. Wheat 60% seeded, slightly behind normal. Dry soil moisture has hampered progress.

TEXAS: Heavy rains which caused major flooding several south Texas rivers ended by midweek leaving dry and mild air over entire State remainder of week. The heavy rains of last week plus some this week flooded parts of the Nueces and lower Guadalupe Rivers. Meanwhile west Texas was dry. Temperature readings ranged from 1° to 5° subnormal over much of Texas but most of high plains were slightly above normal.

Rain delayed planting wheat, oats another week.

Clear weather late week allowed some farmers return to fields. Early stands wheat, oats making good growth. Light grazing available. Heavier grazing in prospect for future. Harvest cotton, corn, sorghum, peanuts set back a week by recent rains. Major crops percent planted: Wheat 85, 1972 89; oats 76, 1972 82. Major crops percent harvested: cotton 17, 1972 32; corn 85, 1972 95; sorghum 69, 1972 70; soybeans 15, 1972 33; peanuts 55, 1972 75; rice 95, 1972 100; sugar beets 24, 1972 29.

High Plains lettuce harvest continued light. Harvest tomatoes, carrots, peppers active. Late carrots progressing well. North Texas: Tomatoes, okra harvested. Trans-Pecos: Tomatoes harvested Dell City area. Green chile harvest El Paso County. Lettuce, onions for spring virtually all planted. East Texas: Sweet potato digging active, rains delayed. Upper Gulf Coast: Rain stopped plantings, hurt vegetables in fields. Coastal Bend: Cucumbers, squash harvested before rains. Rains washed out several hundred acres spinach. San Antonio-Winter Garden: Cabbage, carrots good growth. Onions up, starting to progress. Cucumbers harvested. Field activity slowed many areas by rains. Lower Rio Grande Valley: Vegetable seeding lags due to wet fields. Early onions, cabbage emerged, good development. Some acreage drowned out due rainy weather. Bell peppers, tomatoes poor to fair. Little lettuce seeded due rains. Citrus harvest slow. Quality, size excellent. Water being pumped out of some groves. Harvest expected to pick up. Pecans maturing, outlook poor. Few wheat, oat fields in blacklands, east Texas providing grazing. Armyworms continued to plague most areas, controls necessary only few localities. Ranges, pastures excellent. Recent heavy rains caused some livestock to lose flesh, most regained weight with return of warm open weather. Screwworm cases continued to show up south, southcentral.

UTAH: No precipitation except for a few isolated light showers adjacent to Wasatch Mountains. Temperatures near normal to 9° above. Soil temperatures at 4-inch depth low 50's Cache Valley, mid-50's Richfield, near 60° Salt Lake City and upper 60's St. George. Weather past week and most of October very favorable for harvest.

Percent harvest completion: Northern and southern Utah potatoes 90, central Utah potatoes 50, sugar beets 85, dry onions 80, dry beans 95, corn for grain 20, apples 75. Some counties still have a little alfalfa hay standing which will be cut for third or fourth time. No frost damage last week and virtually none in October. Movement cattle, sheep down from high summer range to valley farms, ranches, fall rangelands now 75% completed. Movement to slaughter, feeder lots of all livestock expected to be sold this fall about 45% completed for cattle and calves, 65% for sheep and lambs.

VIRGINIA: Generally clear and dry. Temperatures near normal. Warming over weekend. Extremes 84° and 24°. Ideal harvesting week. Fieldwork averaged 5.8 days. Topsoil moisture 51% adequate, 49% short.

Corn harvest 53% complete Statewide, 85% important Tidewater area. Peanut harvest 87% dug, 72% picked compared to 38% dug, 21% combined 1972. Soybean harvest picked up momentum 14% complete. Small grain seeding made moderate progress: Wheat 44% sown, oats 71%, Barley 68%. Heaviest weekly volume of season flue-cured tobacco marketed. Stripping and grading burley active. Eastern shore fall vegetable and sweet potato harvest active. Pastures declined. Forage requirements from pasture grazing: Sheep and beef cattle over 90%; dairy cattle almost 50%.

WASHINGTON: WEST: Temperatures 2° to 4° above normal. Warming end week. Precipitation early week from 0.20 in. to 2.00 in. Harvest continued for lettuce, celery, carrots, sweet and silage corn. Potato harvest mid-point. Squash, cauliflower ended. Cleanup caneberry fields. Small grains up, look good. Other activities: Plowing, fertilizing. Christmas tree growers preparing for harvest. Fall pastures good.

EAST: Temperatures 3° to 6° above normal. Scattered precipitation first of week, mostly south. Apple harvest continued for late varieties and late areas. Grape harvest complete. Sugar beet harvest full swing. Picking grain corn underway. Late beans threshed and fourth crop alfalfa taken. Seeding winter grains, plowing and fertilizing. Pasture regrowth good. Livestock good. Supplemental feeding active.

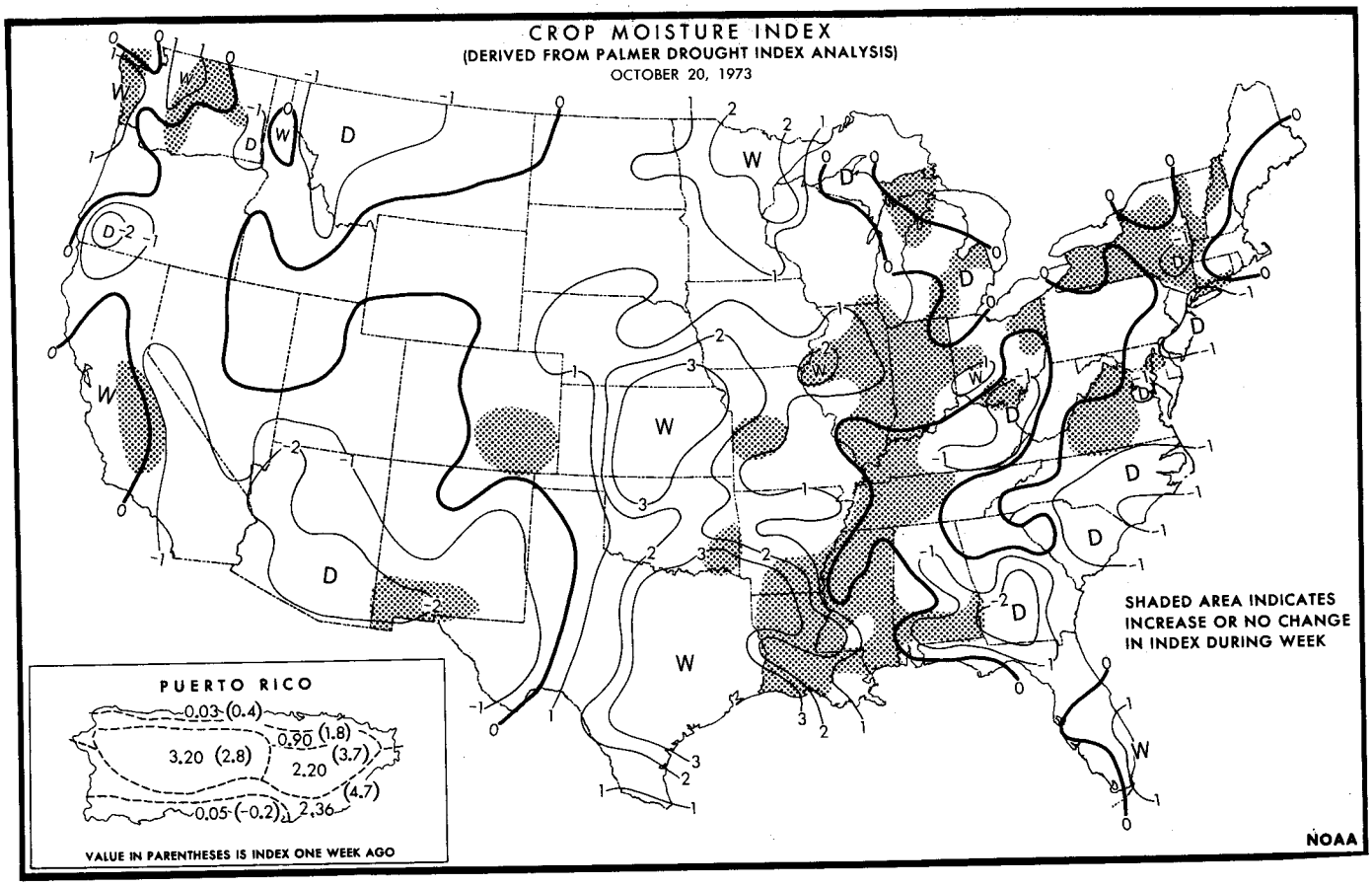
WEST VIRGINIA: Temperatures near normal. High 85°; Martinsburg; low 22°, Canaan Valley. Rain early week. Fieldwork: 5.4 days suitable. Farmers harvested corn for grain, attended to livestock and harvested hay. Soil moisture 27% short, 72% adequate, 1% surplus. Hay condition good, third cutting 90% complete. Corn 52% harvested for grain. Potatoes 95% dug. Wheat 69% and barley 81% sown.

WISCONSIN: Dry, pleasant fall week. Temperatures 1° above normal. Mild beginning of week, sharply cooler midweek with frost statewide. First frost of season October 16 south and east. Warmer again on weekend with beautiful Indian summer weather. Only measurable rain 0.10 in. extreme northcentral. First report of snow flurries on Wednesday from Eagle River and Land O'Lakes as cold air swept over Lake Superior.

Fall harvesting very active. Corn for grain 20% harvested, 20% 1972, normal 15%. Soybeans 20% combined, 1972 5%, normal 10%. Moisture content varies on corn from low 20's for early maturities to upper 30's for late corn. Soybean moisture as low as 10%. Corn and soybean yields down where too dry this summer. Fall plowing and other fieldwork going very well. Fall plowing 35% done, 1972 17%, normal 30%. Potato harvest almost finished, vegetable harvest moving towards completion. Cranberry harvest going very good with excellent crop reported some areas. Apple picking made fine progress, crop down from 1972, prices up. Sunshine, drying winds, and low humidities helpful for curing tobacco in sheds. A little green-chopp of third crop hay yet. Pastures continued good. Soil moisture 15% short, 85% adequate.

WYOMING: Fair and mild. Temperatures mostly 3° to 8° above normal. Highs in 60's and 70's with some 80's. Lows in 30's and 40's with some 20's and teens in western valleys. Extremes: 89° at Torrington experimental farms, 15° at Big Piney. Little or no precipitation fell except light showers north early week with amounts less than 0.10 in. Sheridan airport reported greatest amount, 0.07 in. Monday.

Favorable weather, harvest progressed fairly rapidly. Dry bean harvest nearly complete, 65% of both potatoes and sugar beets dug. Corn for grain 10% harvested. Winter wheat prospects good, surface soil moisture adequate. Winter grazing prospects good.



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	Drough 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 inter-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.

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