

1872-Centennial-1972

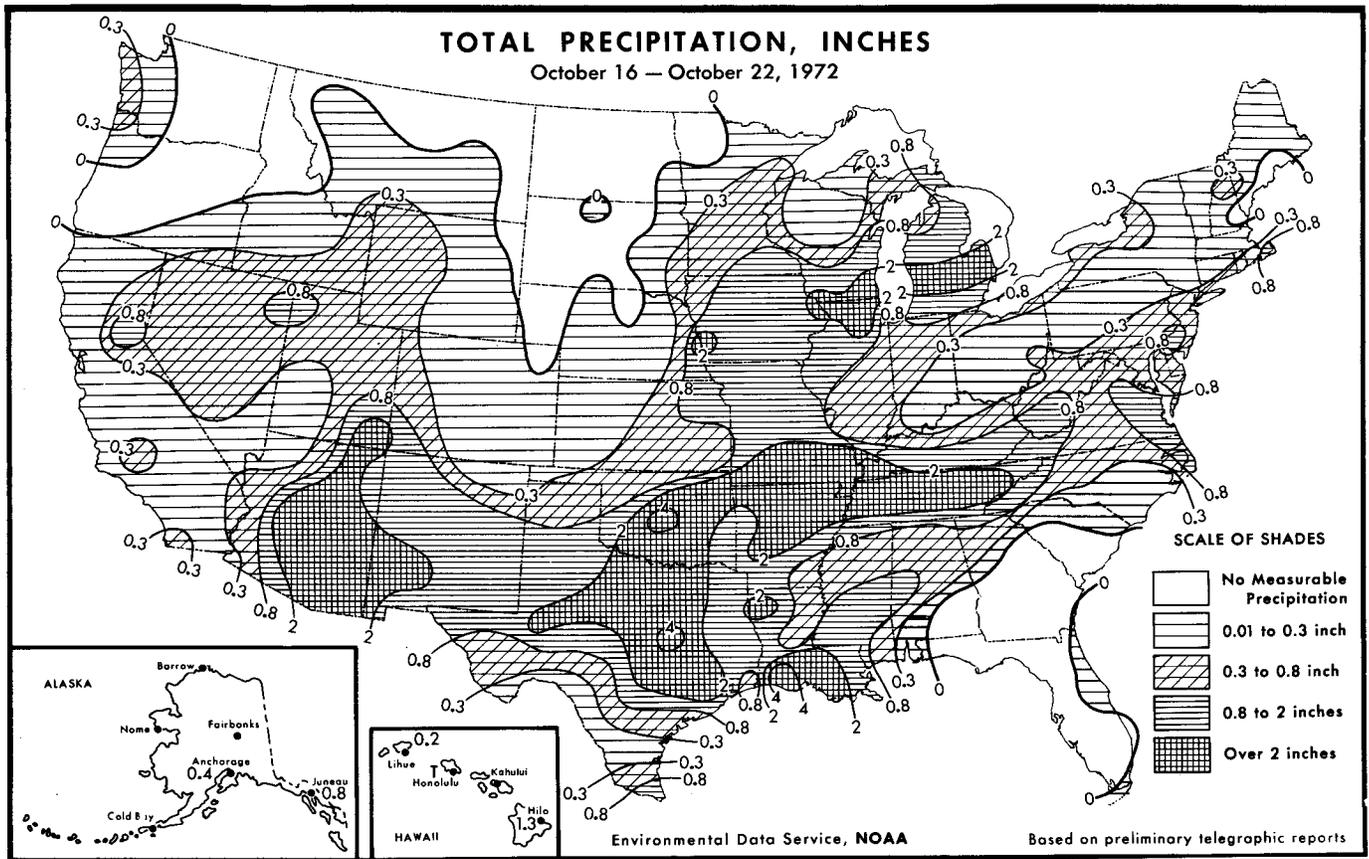
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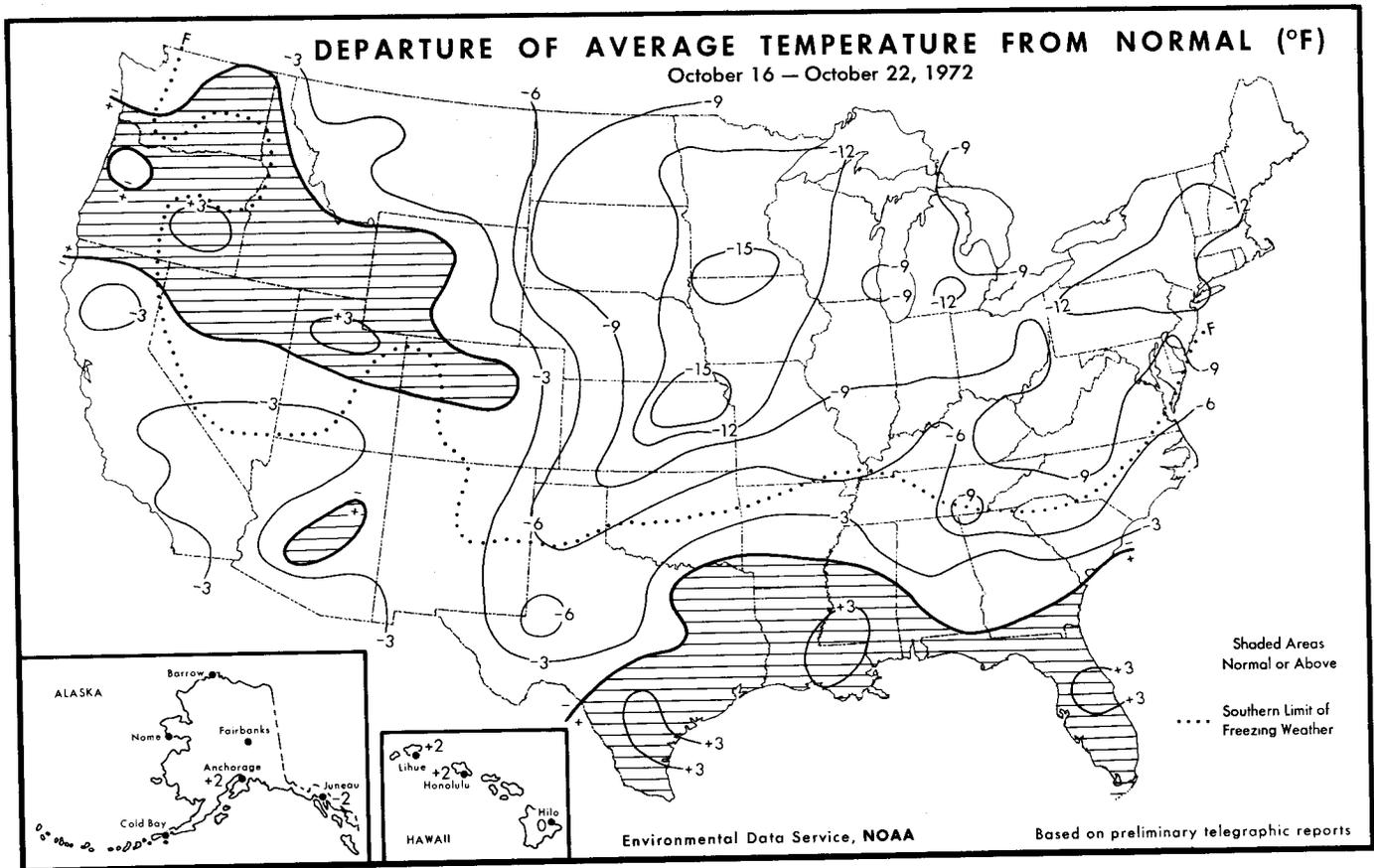
NATIONAL WEATHER SUMMARY

HIGHLIGHTS: Record high temperatures for so late in the season occurred over the southern Great Plains early in the week. Weekend temperatures in some eastern locations dropped to record low levels for so early in the autumn. Heavy rains caused flash floods in eastern Arizona and in central Oklahoma.

PRECIPITATION: Scattered showers occurred over the northern and central Atlantic Coastal States and the Tennessee River Valley early in the week in advance of a cool front which was moving south-eastward over the area. Snow flurries were seen along the lee shores of the Great Lakes. The cold air blowing across the relatively warm waters picked up moisture and dropped it when the breezes reached the lee shores. Buffalo, N.Y., received 2 inches of snow Wednesday. Two inches of snow fell at Moline, Ill., Wednesday also.

Light rain also fell in the West while snow fell some western mountains. Freezing drizzle slicked the roads at Akron, Colo., Wednesday afternoon. Heavy showers fell in some desert localities, 1.83 inches at Phoenix, Ariz., and about 3.25 inches at Payson some 70 miles northeast of Phoenix. Many localities from the Atlantic to the Pacific and from the Great Lakes to the Gulf of Mexico received light showers Wednesday forenoon. Heavy rains fell over the central Great Plains late Saturday and early Sunday. One of the heaviest showers drenched McAlester, Okla., with 6.25 inches. Lighter rains also fell elsewhere over the eastern half of the Nation over the weekend.

No rain fell during the week in southern Georgia and much of the Florida Peninsula, and only widely scattered light sprinkles occurred from northern Washington to the Red River of the North.



TEMPERATURE: A mass of cold Arctic air blustered into the north-central States from Canada early in the week. Southwesterly winds preceded the front which marked the leading edge of the cold air. They brought summer weather from the South. Numerous cities in advance of the front had never seen such warm weather so late in the season. Some examples were: Wichita Falls, Texas, 102° Tuesday; Oklahoma City, Okla., 96° Tuesday; Jacksonville, Fla., 89° Wednesday. Northwesterly winds followed the front. They sharpened the bite in the cold air. Williston, N. Dak., registered

5° above zero Wednesday morning. By late Thursday, the front had marched off the Atlantic and Gulf Coasts. A large High covered the eastern half of the Nation. Only the Florida Peninsula lay in the warm air. Sub-freezing weather had reached Tennessee and North Carolina. Many eastern localities recorded lower temperatures than had occurred in any previous October. A large area from the northern and central Great Plains to the northern and middle Atlantic Coast averaged 9° to 15° colder than normal.

L. W. Dye

NATIONAL AGRICULTURAL SUMMARY

AGRICULTURAL HIGHLIGHTS: Corn, cotton and soybean harvest made good progress. * Rain improved planting conditions for winter wheat in Southern Plains. * Cold weather delayed harvest of potatoes and apples in Michigan and New England.

SMALL GRAINS: Heavy rains over northern Texas, Oklahoma, eastern Kansas, and Nebraska provided much needed moisture. Early seeded winter wheat stands have good growth. Later plantings particularly in northern Texas and southwestern Oklahoma had been dusted in and moisture was needed for germination. About 98 percent of the Kansas wheat is seeded. With needed moisture in Oklahoma, seeding will be completed soon. Texas seeding is 84 percent complete, the same as last year. Seeding is nearly complete in the Pacific Northwest despite lack of moisture. Emergence was slow but uniform. Colorado seeding is complete. With above average temperatures growth has been good. Seeding in Indiana is about 50 percent complete, Ohio 55 percent and Illinois 85 percent complete. Grazing of small grain fields in Oklahoma has been quite limited.

CORN: Harvest continues to lag behind normal with nearly one-third of the Nation's total acreage harvested. In the North Central region, good progress was made with 24 percent of the acreage picked. Iowa, Illinois and Ohio farmers are 20 percent completed picking while Nebraska is 24 percent completed. About one-third of the corn is picked in Minnesota while Indiana and Wisconsin are about 15 percent done. Between one-half to three-fourths of the corn is harvested in the South Atlantic States.

COTTON: Rains slowed harvest in the South Central States but good progress was made in the South Atlantic States. In Texas, 32 percent of the cotton is picked. Farmers in Mississippi and Arkansas have about 55 percent of the cotton harvested. The Georgia crop is 60 percent picked while Alabama and Tennessee harvest is 40 percent completed. Oklahoma farmers are 20 percent done. Rain interrupted harvest in Arizona.

SOYBEANS: Harvest in the North Central States is almost two-thirds completed and one-third completed in the southern States. Combining has lagged this season in the North Central States but is on schedule in the southern States. Illinois is the most completed with 80 percent of the acreage cut. Iowa is three-fourths complete and Arkansas is 29 percent complete. Farmers in Missouri have 46 percent of the acreage combined. Ohio and Indiana have 40 percent harvested. The Minnesota harvest is 72 percent completed.

OTHER CROPS: Sorghum grain harvest made good progress during the week. Harvest is 62 percent complete in Texas, 44 percent in Nebraska and one-third in Kansas. Marketing of flue cured tobacco continues in Virginia. Burley tobacco in Kentucky is 10 percent stripped with another 38 percent ready for stripping. Peanut harvest in North Carolina has gained momentum with about 62 percent dug while the Texas crop is 75 percent harvested. Potato harvesting in Idaho is nearly complete. Unseasonable cold weather delayed completion of harvest in Maine. Some frost damage occurred to unharvested potatoes in Maine and Michigan. Sugar beet digging is proceeding rapidly with stockpiling started. The Arkansas rice crop is 95 percent harvested. Dry bean harvest in Michigan is 90 percent complete. In Colorado, all except the southwest area is harvested. Sweet potatoes in Louisiana are 85 percent dug.

Fruits and Nuts: Late variety apples are being picked. Harvest is complete in Washington. Hard freezes caused damage to unharvested apples in Michigan. Grape harvest is nearly complete in most areas. Fresh market shipment from California stopped as result of rains.

Cold weather continued to delay Massachusetts cranberry harvest which is slightly over three-fourths complete. Early oranges are moving in moderate volume in Texas and the California Valencia orange harvest is light. Navel harvest in California is underway. Florida citrus trees are in excellent condition. Pecan harvest is underway in Texas and Louisiana. Almond and walnut harvest resumed in California after rains. Some reduction in quality is expected.

Vegetables: Cabbage harvest in New York for storage is increasing. Moderate supplies of broccoli and cauliflower are available from California. Sweet corn is moving in good volume from Florida.

PASTURES AND LIVESTOCK: Cattle marketing is active from the Great Plains west. Most cattle are moved down to winter pastures. Ranges are improving with recent rains and fall feed situation is good.

Lee Sandberg
Agricultural Statistician

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., OCTOBER 22, 1972

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	60	- 5	.4	- .3	New Orleans	71	+ 1	1.4	+ .8	OKLA.Okla. City	58	- 4	4.0	+3.5
Mobile	70	+ 1	.1	- .5	Shreveport	69	+ 2	2.0	+1.4	Tulsa	57	- 5	3.9	+3.2
Montgomery	64	- 2	0	- .5	MAINE.Caribou	31	-11	.1	- .7	OREG.Astoria	53	+ 1	.3	-1.7
ALASKA.Anchorage	36	+ 2	.4	0	Portland	38	-10	T	- .7	Burns	52	+ 4	0	- .2
Barrow	---	---	---	---	MD.Baltimore	47	- 9	.7	0	Medford	53	+ 1	T	- .5
Fairbanks	---	---	---	---	MASS.Boston	45	- 9	.1	- .7	Pendleton	53	+ 1	0	- .3
Juneau	39	- 2	.8	-1.1	Chatham	44	---	1.5	---	Portland	54	+ 1	.2	- .7
Nome	---	---	---	---	MICH.Alpena	37	- 8	.9	+ .4	Salem	51	- 2	.1	- .9
ARIZ.Flagstaff	44	- 2	3.6	+3.3	Detroit	41	-10	1.3	+ .7	PA.Allentown	41	-12	.6	0
Phoenix	70	+ 1	2.4	+2.3	Flint	40	- 9	2.3	+1.8	Erie	41	- 9	.4	- .3
Tucson	64	- 5	2.8	+2.7	Grand Rapids	39	-11	2.0	+1.4	Harrisburg	45	-10	.6	- .1
Winslow	57	+ 1	2.3	+2.1	Houghton Lake	36	-10	1.4	+ .7	Philadelphia	46	- 9	.8	+ .2
Yuma	69	+ 4	.3	+ .2	Lansing	38	-12	2.1	+1.5	Pittsburgh	41	-11	.2	- .4
ARK.Fort Smith	60	- 3	1.9	-1.1	Marquette	37	-10	.5	+ .1	Scranton	42	-10	.6	- .1
Little Rock	61	- 1	2.2	+1.5	Muskegon	42	-10	2.8	+2.3	R.I.Providence	42	-10	T	- .5
CALIF.Bakersfield	64	- 2	.5	+ .4	S.Ste.Marie	36	- 9	1.2	+ .7	S.C.Charleston	65	0	T	- .5
Eureka	54	0	.1	- .8	MINN.Duluth	30	-14	.4	- .1	Columbia	58	- 6	T	- .5
Fresno	61	- 3	.2	+ .1	Internat Falls	32	-10	.2	- .2	Greenville	55	- 7	.7	- .1
Los Angeles	64	- 3	.3	+ .2	Minneapolis	34	-14	.7	+ .4	DAK.Aberdeen	37	-10	T	- .2
Red Bluff	60	- 5	.2	- .2	Rochester	34	-15	1.6	+1.2	Huron	38	-10	.1	- .2
San Diego	64	- 2	.5	+ .4	St. Cloud	32	-14	.4	0	Rapid City	38	-11	0	- .2
San Francisco	59	- 1	.2	0	MISS.Jackson	69	+ 3	1.5	+1.0	Sioux Falls	35	-15	.3	+ .1
Stockton	60	- 4	.2	0	Meridian	65	+ 1	1.6	+1.1	TENN.Chattanooga	52	- 9	1.1	+ .4
COLO.Denver	52	+ 2	.1	- .1	MO.Columbia	48	- 9	1.7	+1.1	Knoxville	53	- 7	2.5	+1.9
Grand Junction	54	0	.6	+ .4	Kansas City	46	-13	.8	+ .2	Memphis	59	- 3	1.3	+ .6
Pueblo	52	- 2	.2	0	St. Louis	49	- 9	.5	- .2	Nashville	56	- 5	2.6	+2.1
CONN.Bridgeport	44	-10	.5	- .2	Springfield	53	- 6	2.4	+1.5	TEX.Abilene	61	- 5	2.4	+1.8
Hartford	41	-11	.1	- .5	MONT.Billings	45	- 4	T	- .2	Amarillo	53	- 7	.8	+ .4
D.C.Washington	49	- 9	.6	- .1	Glasgow	41	- 4	0	- .1	Austin	72	+ 2	2.4	+1.8
FLA.Apalachicola	72	+ 1	0	- .5	Great Falls	46	- 1	T	- .1	Beaumont	71	+ 1	.7	0
Ft. Myers	79	+ 3	0	- .7	Havre	40	- 5	T	- .2	Brownsville	80	+ 4	1.9	+1.2
Jacksonville	70	0	.1	- .9	Helena	42	- 3	T	- .2	Corpus Christi	78	+ 4	.3	- .2
Key West	81	+ 2	.1	-1.3	Kalispell	39	- 4	T	- .3	Dallas	67	0	2.2	+1.6
Lakeland	75	+ 1	.1	- .5	Miles City	43	- 5	T	- .2	Del Rio	71	0	.3	- .1
Miami	78	+ 1	.2	-1.2	Missoula	41	- 2	T	- .2	El Paso	62	- 2	.9	+ .7
Orlando	77	+ 4	.2	- .5	NEBR.Grand Island	42	-10	.1	- .1	Fort Worth	67	0	2.8	+2.2
Tallahassee	71	+ 2	T	- .4	Lincoln	42	-14	1.6	+1.3	Galveston	75	+ 2	1.9	+1.3
Tampa	76	+ 2	0	- .5	Norfolk	40	-12	.2	0	Houston	70	+ 1	2.4	+1.6
GA.Atlanta	58	- 3	T	- .6	North Platte	42	- 8	.1	- .1	Lubbock	55	- 5	1.1	+ .7
Augusta	60	- 4	T	- .4	Omaha	41	-13	2.1	+1.8	Midland	58	- 7	2.0	+1.7
Macon	64	- 1	0	- .4	Valentine	39	- 9	.2	0	San Angelo	64	- 4	1.9	+1.5
Savannah	66	0	T	- .5	NEV.Ely	44	- 1	.6	- .4	San Antonio	73	+ 3	1.6	+1.1
HAWAII.Hilo	75	0	1.3	-1.2	Las Vegas	61	- 5	.1	- .1	Victoria	74	+ 2	.6	- .2
Honolulu	80	+ 2	T	- .4	Reno	48	- 1	.7	+ .6	Waco	68	- 1	4.7	+4.2
Kahului	---	---	---	---	Winnemucca	48	+ 1	.4	+ .2	Wichita Falls	61	- 5	2.9	+2.3
Lihue	79	+ 2	.2	- .9	N.H.Concord	34	-14	T	- .6	UTAH.Blanding	48	- 3	2.2	+1.9
IDAHO.Boise	53	+ 2	.3	+ .1	N.J.Atlantic City	46	-10	.8	+ .1	Salt Lake City	54	+ 3	.7	+ .4
Lewiston	52	+ 1	T	- .3	Trenton	45	-11	.5	- .1	VT.Burlington	35	-12	.1	- .6
Pocatello	50	+ 2	.6	+ .4	N.MEX.Albuquerque	55	- 2	1.1	+ .9	VA.Lynchburg	48	-10	.8	+ .2
ILL.Cairo	54	- 7	3.3	+2.7	Roswell	---	---	---	---	Norfolk	55	- 6	1.1	+ .5
Chicago	43	-11	.6	0	N.Y.Albany	39	-11	T	- .6	Richmond	50	- 8	.9	+ .2
Moline	44	-10	1.9	+1.4	Binghamton	35	-14	.1	- .6	Roanoke	45	-12	.6	- .1
Peoria	43	-11	1.8	-1.2	Buffalo	39	-11	.8	+ .1	WASH.Colville	47	+ 1	T	- .4
Rockford	41	-11	2.3	+1.7	New York	45	-13	.5	- .2	Omak	45	- 2	0	- .2
Springfield	47	- 9	.7	+ .1	Rochester	40	-11	.3	- .3	Quillayute	49	- 1	.4	-2.1
IND.Evansville	50	- 8	.5	0	Syracuse	40	-11	.3	- .4	Seattle-Tacoma	50	- 2	.1	- .9
Fort Wayne	43	- 9	.5	- .1	N.C.Asheville	50	- 7	.9	+ .3	Spokane	49	+ 1	T	- .4
Indianapolis	46	- 9	.3	- .2	Charlotte	54	- 8	.1	- .6	Walla Walla	55	+ 1	0	- .4
South Bend	43	-10	1.5	+ .8	Greensboro	48	-10	.7	+ .1	Yakima	51	+ 2	T	- .1
IOWA.Burlington	44	-11	1.9	+1.3	Hatteras	61	- 3	1.8	+ .9	W.VA.Beckley	44	- 9	1.0	+ .4
Des Moines	39	-14	1.4	+ .9	Raleigh	54	- 6	.1	- .4	Charleston	47	- 9	1.1	+ .5
Dubuque	38	-12	2.6	+2.0	Wilmington	60	- 5	.2	- .5	Huntington	46	-10	.5	+ .1
Sioux City	40	-13	.8	+ .5	N.DAK.Bismarck	35	-11	T	- .2	Parkersburg	49	- 7	.2	- .2
KANS.Concordia	40	-17	.4	+ .1	Fargo	33	-13	.3	0	WIS.Green Bay	37	-11	1.5	+1.1
Dodge City	49	- 9	.1	- .2	Williston	35	-10	.5	+ .4	La Crosse	---	---	---	---
Goodland	47	- 5	T	- .2	OHIO.Akron-Canton	44	- 8	.3	- .2	Madison	38	-11	1.9	+1.5
Topeka	39	-18	1.6	+1.1	Cincinnati	48	- 7	.1	- .3	Milwaukee	41	- 8	2.3	+1.8
Wichita	50	- 9	.8	+ .3	Cleveland	43	- 9	.7	+ .2	WYO.Casper	46	- 2	.3	+ .1
KY.Lexington	48	- 9	.6	- .1	Columbus	44	- 9	.2	- .2	Cheyenne	45	- 2	.2	0
Louisville	51	- 6	.2	- .3	Dayton	44	-11	.1	- .4	Lander	46	0	.5	+ .2
LA.Baton Rouge	73	+ 5	2.9	+1.9	Toledo	41	-10	.5	0	Sheridan	47	0	T	- .3
Lake Charles	71	+ 1	4.3	+3.7	Youngstown	39	-12	.2	- .4	P.R. San Juan	82	+ 2	.7	- .5

* Departures are from 30-year means (1931-60). Based on preliminary reports

CONDENSED STATE SUMMARIES

These summaries provide brief descriptions of condition and activities important on a national scale. Detailed reports of crop and weather conditions during the growing season are contained in State issues of Weekly Weather and Crop Bulletins published by field offices of the Statistical Reporting Service, U.S.D.A. in cooperation with NOAA Climatologists.

ALABAMA: Generally dry weather continued over south with scattered showers Sunday and early Monday. Rain 4 days portions of Tennessee River Valley of North and 3 days elsewhere over north. Temperatures continued above normal first of week with State high of 90° at Mobile Tuesday. Coolest weather of season moved in Thursday with State low of 33° at Huntsville early Friday. Temperatures averaged 13° below normal Friday but moderated to 3° above normal by Monday. Rain slowed harvest in north but good progress made south and central. About 2/5 of cotton in bale, slightly ahead of last year. Corn harvest about 1/2 complete, compared with 2/5 year ago. Cotton harvest has priority in most areas. Almost 4/5 soybeans matured and 1/3 combined. Yields of beans harvested fair. Digging of sweet potatoes slowed by rain Cullman County. In north, moisture benefitted early-planted small grains. Planting of remaining acreage slow as harvest has priority. Seeding lagged south and central due to short moisture. Pastures and winter grazing crops in lower half State need rain. Livestock producers feeding hay in extremely dry southern counties.

ARIZONA: On morning of 17th, a broad band of tropical moisture began moving in aloft over Arizona on a southerly flow of air on east side of a high-level low-pressure area off California coast. This flow of moisture intensified next several days and heavy shower activity much of State. Shower activity most intense along Mogollon Rim and in mountains in eastern part of State where weekly rainfall totals of more than 4.00 inches. Rainfall abated most areas by 20th. The San Francisco and Gila Rivers continued to rise and serious flooding along both. Precipitation heavy over irrigated valleys southern part of State, where weekly totals between 2.00 and 3.00 inches. Cotton progressing normally until midweek rains. Condition end of week poor, Pima County. Rains delayed harvest for week and increased boll rot Yuma County. Pink bollworm active in late top cotton. Grain sorghum harvest delayed by heavy rains. Fall sugar beets progressing satisfactorily. Cochise County harvest delayed due to rains. Alfalfa hay progressing normally except for some rain damage. Maricopa County had some quality losses past 2 weeks. Small grain seed preparation delayed. Lettuce and chili harvest active first half Cochise County. Chili, melons, and other mixed vegetables harvested local markets Graham and Greenlee Counties. Lettuce making good progress Pima and Pinal Counties. Fall cantaloupe harvest other field operations delayed Yuma County. Early lettuce, cabbage, and carrots making good progress. Lemon harvest was delayed Yuma and Salt River Valley areas. Limited navel harvest. Ranges fair to mostly good. Rainfall late in week filled tanks. Soil moisture improved. Range grasses greening up. Stock water supplies adequate to surplus. Northwestern area needs additional precipitation. Cattle and calves fair to good. Sheep, lambs fair to good. Movement of sheep to winter pastures.

ARKANSAS: General weekend rains boosted weekly totals to well over 1.00 inch almost all sections of State. Totals over 2.00 inches many localities,

mainly in a 50- to 75-mile-wide band extending from southwest to northeast corner of State. El Dorado in south-central had largest weekly total with 3.61 inches followed by Hot Springs with 2.86 inches. Mean temperatures mid-60's extreme south to mid-50's along extreme northern border. Departures from normal varied from +3° south-central to -7° north-central. Rather warm early in week, pronounced cooling at midweek, and gradual warming late in week continuing through weekend. Good progress fall harvest early in period but midweek showers and general rain over weekend interrupted fieldwork. Peak harvest on fair to good cotton crop continued as weather permits. About 55% picked to date. 95% good to excellent rice crop combined. Soybean harvest underway with 29% acreage cut. Yields extremely variable depending on effects of earlier dry weather. Harvest continued for corn and sorghums. Final hay cuttings underway. Supply short many upland counties. Rain beneficial fall-seeded wheat and oats. Many early fields being grazed. Much additional seeding, especially wheat, to be done as harvest other crops makes land available. Harvest of fall Irish potatoes and sweet potatoes well advanced. Marketing turnips and other southern greens underway. Pastures improved and livestock making satisfactory weight gains without supplemental feeding.

CALIFORNIA: Moderate to heavy rains continued through 17th northern and central California, reached Los Angeles Basin and desert. Approximate storm totals for 9-day period: 5.00 inches Bay area, central Sierra; 2.00 inches Sacramento Valley; 0.50 inch low elevations San Joaquin Valley; 0.25 inch several locations desert. Thunderstorms, small hail several days. Average temperatures 2° to 6° below normal most interior locations. Rainfall slowed fieldwork, harvest. Weather conditions improved past week. Harvesting and cultural practices continue. Wine grape harvest nearing completion. Rain North Coast resulted some mold and rot. Harvest Emperors, Calmerias, and Almerias for fresh use virtually stopped by rain. Almond and walnut harvest resumed after rain, some mold showing. Rains will hurt quality nuts in field. Harvest olive crop continues. Persimmons and pomegranates continue San Joaquin Valley. Valencia oranges being picked. Much of crop to by-products. Navel orange developing normally. Light harvest underway southern San Joaquin Valley. Light harvest avocados and lemons continues. Apple harvest final stages. Salinas artichokes increased. Heavy cullage from plume moth. Broccoli and cauliflower moderate supplies, Salinas. Imperial cantaloupes hampered by rain. Carrots light volume. Santa Maria and Salinas celery moderate volume. Sweet corn continues southern California. Salinas lettuce supplies down, near completion. Some by-passed acreage due to rain. San Joaquin-Westside lettuce full swing, good quality. Onion seasonally declining. Bell peppers continue San Joaquin. Potato harvest hampered by rain northern California. Santa Maria-Kennebec continues. Sweet potato active, San Joaquin. Fresh market strawberries near completion, Salinas. Limited picking for processing, southern California. Market tomatoes slow, Merced area. Some damage in Salinas area. Pole harvest Oxnard, full swing.

Recent rains germinated annual range grass. Growth aided by mild seasonal temperatures. Supplementation tapering off north. Continues heavy south until grasses reach grazing readiness. Stock water supplies replenished north. Cattle below average condition due poor summer feed. Early calving under way. Movement stock off summer mountain ranges virtually complete. Early lambing reported. Egg, milk production season levels.

COLORADO; Heavy rains extreme southwest caused extensive flooding, primarily along the Animas River around Durango. Over 6.50 inches of rain fell in Durango during 5-day period from October 16 through 20, with 3.65 inches of this total falling 19th. Almost 11.00 inches of rain has fallen in Durango since October 4, compared with their normal October total of 1.94 inches, and yearly normal of 18.59 inches. The ensuing flood in La Plata County has caused over \$1 million property damage. Moderate rains fell over rest of mountains west. Light showers over eastern plains. Temperatures 2° to 7° above normal mountains, slightly below normal east. Heavy rain western slope halted field activity. Harvest active east and San Luis Valley. Topsoil moisture short to adequate most areas. 7% emerged wheat being pastured. Condition excellent. Corn harvest for grain 24% complete. 88% grain sorghum matured. Harvest 16% complete. Sorghum harvested for forage virtually complete. Sugar beet harvest 54% complete. Dry beans threshed all areas except southwest. Rain caused considerable damage. Harvest late summer potatoes complete. Fall potatoes harvested. Apple harvest nearly complete western slope. Condition ranges and pastures fair to good. Livestock condition good.

FLORIDA: Sunny and warm early part of week with highs in low 90's. Cold frontal passage Thursday and Friday dropped Friday's highs into 70's and low 80's with some minimum temperatures in 40's in north Florida Saturday morning. Gradually warming Sunday. Temperatures for week averaged near normal. Scattered showers with frontal passage with most sections averaging below 2.00 inches. Highest rainfall amount 1.52 inches at Coral Gables. Soybean harvest in full swing. Peanut harvest complete. Dry weather is causing a decline in pasture and range grasses and delaying establishment of winter forage crops. Citrus tree condition excellent. Rain needed. All areas, irrigation underway. Fruit splitting still no problem. Sweetcorn is moving in good volume from Everglades and Zellwood. Radishes and cucumbers are in moderate, increasing supply. Beans, eggplant, squash and most of the leaf crops are in early, light supply. Celery and tomatoes are starting. Potato planting predominant. Dade County expected start this week. Strawberries are being transplanted.

GEORGIA: Moderate rainfall in northern border counties but amounts light over remainder of State. Much of southeast and extreme south had no measurable rain during week. All areas except extreme north continued extremely dry at end of week. Rain moved back into State on Monday, October 23, but amounts were heavier in north. Warm early in week, turning much cooler Thursday and Thursday night. First freezing temperatures of season Friday morning as lows dropped to 20's extreme north and to 30's and 40's remainder of State. Gradual warming weekend to near normal by Sunday. Averages ranged from above normal southwest to below normal north and northeast. Extreme north Georgia continued to receive ample moisture. Remainder of State short to very short. Some re-

lief at end of period. Cotton harvest 60% completed and active. Corn 2/3 harvested. Soybeans rated fair with 20% harvested. Haying continues. Pastures poor to fair, need moisture. Cattle mostly good. Small grain planting much delayed by dry soils at 39% complete.

HAWAII: Crop areas mostly warm and dry. Irrigation heavy. Heavy spraying necessary to minimize damage from insects and diseases. Production most vegetables light. Supply bananas heavy. Supply papayas to increase slightly. Harvesting of pineapple light. Plantings active. Sugar operations normal. Ranges getting dry most areas.

IDAHO: Temperatures averaged near normal. No precipitation north but ranged light to heavy other areas. Totals ranged to 0.88 inch southwest, 0.84 inch south-central, and 1.35 inches east. Harvest of crops mostly complete except for sugar beets. About 20% of potatoes unharvested in southwest and nearly complete elsewhere. Sugar beet harvest 1/3 done in Magic Valley, 2/3 in east, and about 1/4 complete in southwest. Rainy weather damaged small acreage of swathed beans and hay. Apples mostly picked. Winter wheat nearly all seeded. Emergence good. Fall weather good for harvesting. Cattle nearly all on home pastures. Fall ranges have improved with recent rains.

ILLINOIS: Weekly average temperatures ranged from 7° to 12° below normal. Much colder air moved into Illinois bringing record low temperatures, frost, and snow by weekend. By Thursday and Friday, all of State had experienced temperatures in teens or 20's. Precipitation totals generally less than 0.25 inch. A number of locations in north reported 1 to 2 inches of snow on ground on 18th with rain and snow mixed in central Illinois. Corn 20% harvested, progress behind normal, 1971 60% harvested. Soybeans 80% combined, about normal, 95% in 1971. Winter wheat seeding 85% complete. Fall plowing 20% complete, 1971 25%. Pastures good to excellent 86%. Soil moisture short 9%, adequate 68%, surplus 23%. Average 5.4 days suitable for fieldwork.

INDIANA: Rainy cold week. Severe freeze over State on 20th. Most minimums in low 20's. Weekly rainfall 1.50 inches northwest, 0.50 inch northeast and central, 0.30 inch in south. Poor drying rates from high humidities, low solar radiation, and rain. Four days suitable for fieldwork, and fall activities continue slow. Corn 15% harvested, 20% average. Soybeans 40% combined, 65% average. Wheat half seeded, 75% average. Wheat 25% emerged, stands mostly good. Rye and barley 70% seeded. Apples 70% picked, 75% average. Tobacco harvest virtually complete. Pastures mostly fair to good.

IOWA: Cold, cloudy, wet. Record cold so early in season on 19th. Early snow nearly Statewide fell the 18th. Heavy weekend rains.

Wet weekend slowed harvesting throughout State. Approximately 20% corn harvest complete, behind last year 49% and average of 24%. Soybean harvest slightly less than 75% complete, compared 88% in 1971 but ahead of average of 70%. 42% grain sorghum harvested. Popcorn 45% harvested. Approximately 6 days suitable for fieldwork. Topsoil moisture 85% adequate, 12% surplus, 3% short.

KANSAS: Cloudy, cold and damp. Precipitation generally 1.00 to 4.00 inches eastern 1/3, 0.25 to 0.75 inch central and under 0.25 inch western 1/3. Locally over 4.00 inches extreme southeast. Week-

ly mean temperatures averaged much below normal. Mean temperatures about 5° below seasonal north-west and 8° to 18° below normal elsewhere. Hard freeze much of State early 19th. Lowest 14° Sabetha Lake in northeast. Concordia WSO with 17° and Topeka WSO with 20° had coldest weather of record for so early in season on 19th. Fall harvest of row crops about normal progress but behind last year. Sorghum grain 33% harvested compared with 59% last year and 10-year average 38%. Last week's freeze should help crop dry. Corn grain 47% harvested compared 62% last year, average 42%. Soybeans 51% harvested compared 61% last year and average 54%. Sugar beet harvest, silage, and forage cutting active. Wheat 98% seeded compared 97% last year and average 95%. Early-seeded wheat good stands and good growth. Rain in east provided moisture to germinate later plantings. Lack of surface moisture limiting top growth and rooting of wheat some central and western areas. Livestock grazing volunteer and a little seeded wheat. Cattle marketings active and some calves moved in for feeding and backgrounding. Fall farrowing good progress.

KENTUCKY: Very cool week, temperatures averaging 4° to 10° below normal. Maximum temperatures in 40's on 19th and in 50's on 20th. First general freeze of season morning of 20th. Temperatures 20° to 30°. Earliest measurable snow of record at Lexington in central Bluegrass, 0.2 inch on 19th. Rainfall light in northern counties of central, Bluegrass, and eastern sections, and moderate to heavy balance. 0.09 inch northern Bluegrass and 2.00 to 3.00 inches some locations extreme southwest and southeast. Five cloudy days with rain one or more sections, 2 sunny days. Freezing temperatures killed tender vegetation and will expedite harvest row crops. Corn harvest good progress but at 43% complete later than usual. Moisture content continues high in many fields. Yield and quality good--especially on early corn. Soybeans 36% harvested, comparable progress with last 2 years, but later than most other years. Killing freeze will make weedy fields easier to harvest. Burley tobacco 10% stripped, another 38% ready. Burley quality good, but some areas mold and houseburn damage. Three-fourths dark-fired tobacco still being fired. Wheat seeding 58% completed. Fall pastures mostly good.

LOUISIANA: Weather changeable. Very warm first of week, sharply cooler Thursday. Warming trend weekend with locally excessive rain. Local flash flooding Alexandria and Lake Charles. Temperatures averaged 2° to 7° above normal. Extremes: 93° Shreveport, Curtis, and Colfax Tuesday; 40° in western Tallulah and Winnboro Friday. Precipitation ranged from 1.00 inch to more than 3.00 north and southeast, and 2.00 to more than 5.00 southwest through central. Greatest 1-day total 5.24 inches at Alexandria 6:00 a.m., October 23. Unofficial totals to 10.00 inches. Harvest made good progress, about 1 day lost in northern half from showers at mid-week. Generally heavy rainfall on Sunday will delay harvest several days, but was beneficial to fall-seeded crops and pastures. Some damage to cotton and soybeans occurred in central parishes from torrential rains. Back-log at gins slowed cotton harvest, about 50% of crop picked compared with 20% a year ago. Combining soybeans made excellent progress, about 55% of crop harvested compared with 40% year ago. Sugarcane harvest getting underway, about 10% of crop harvested. About 85% of sweet potatoes dug compared with 75% year ago. Scattered harvest of rice, corn, sorghum grain, and hay continues, but

virtually completed. Winter wheat and oats 2/3 to 3/4 seeded. Pasture feed average. Livestock in good condition.

MARYLAND AND DELAWARE: Cold with early-season snow on 19th. Temperatures averaged 6° to 9° below normal; 18th through 21st much below normal. Heavy frosts 20th and 21st. Precipitation averaged 0.80 inch to 1.10 inches except 0.40 inch in 3 western counties. Snowfall, widespread, up to 3 inches in northern Maryland and traces in most other areas. Earliest snowfall since 1940. Freeze ended 1972 growing season abruptly but damage limited. Corn harvest 53% done, 2 weeks late. Soybean harvest underway, also 2 weeks late. Small grain seeding delayed by late crop harvest. Tobacco growers starting to strip 1972 crop and prepare seedbeds for 1973. Low temperatures threatened unharvested apples but damage negligible. Most late vegetables harvested but some potential output lost.

MICHIGAN: Record-setting cold at midweek included lowest temperature for so early in season over south. Warm with steady rain or rain and snow north continued. Lowest temperature: 9° at Stambaugh, readings near 20° common in south. Temperatures 8° to 11° below normal Upper Peninsula and 8° to 12° below normal Lower Peninsula. Precipitation totals: 0.30 inch west to 1.25 inches east Upper Peninsula; 1.00 to 3.75 inches in a band from Muskegon to Port Huron. Hard freezes caused extensive damage to unharvested apples and grapes; some damage colored beans and potatoes. Averaged 5.0 days suitable for fieldwork. Soil moisture surplus. Drying out of corn for grain speeded by hard freezes. Harvest halted by heavy rains end of week. Silage corn 86%, grain corn 12% harvested. Soybean harvest speeded up, 28% harvested. Navy bean harvest about finished, all beans 90% harvested. Sugar beet harvest leaped ahead, 55% harvested. Fall potatoes 85% harvested. Winter wheat 95% planted. Apple picking slowed by frost and snow. McIntosh and Jonathan harvest nearing completion. Other varieties well along. Grapes 80% harvested.

MINNESOTA: Bitter cold week with temperatures averaging 15° below normal. Temperatures across State on 19th generally in mid- to low teens which broke lowest temperature records so early in season. Extremes: 62°, 7°. Precipitation: most of State received precipitation on 20th with 1.50 inches in southeast to less than 0.25 inch in the northwest. Two- to 3-inch snowfalls in southwest on 18th. Topsoil moisture generally adequate all districts except west-central where moisture is short to adequate. Subsoil moisture generally adequate all districts. Cold dry weather permitted harvesting all areas with corn and soybean harvest progressing rapidly. Strong winds early in week caused additional lodging and stalk breakage of corn, resulting in larger than normal losses in some areas. Percent of grain harvested: corn 33, normal 25; soybeans 72, normal 65; potatoes '93, normal 88; sugar beets 95, normal 69.

MISSISSIPPI: Temperatures averaged 2° to 7° above normal and significant precipitation over most of State. A cold front early Thursday dropped temperatures 20°. Oxford and Booneville 30° Friday morning. Cold front brought light rains Thursday. Heaviest in northeast with Tupelo 1.33 inches. In central, amounts to 0.25 common to little or none along coast. Harvests continued faithfully. Days suitable for fieldwork 5.2. Cotton 64% and soybeans 35% harvested. Rice harvest about complete. Pastures fair to good but poor south.

MISSOURI: Growing season ended with hard freeze October 19. Temperatures ranged from low teens north to low 20's Ozarks, to low 30's Bootheel. Season lasted 193 days. Temperatures averaged from 5° below normal south to 10° below normal north. Rainfall heavy southern 2/3 of State with most areas receiving over 1.00 inch. Few locations in Ozarks had over 3.00 inches. Northern 1/3 amounts generally less than 0.25 inch. Four days suitable for fieldwork. Corn 44% harvested, 62% a year ago. Soybeans 46% harvested, 65% last year. Grain sorghum 54% harvested, 70% year earlier. Cotton harvest 42% completed, last year 60%. Fall seeding 69% completed compared 64% year ago. Fall plowing 22% completed, 37% year earlier. Pastures good condition. Soil moisture 21% short, 67% adequate, 12% surplus.

MONTANA: Mild and dry over all of Montana. Temperatures averaged from 2° above normal in southwest to about 5° below normal in north-central and east. Potato harvest virtually complete, yields above average. Sugar beets 70% harvested, sugar content 15% to 17%. Topsoil moisture adequate south-central and eastern 1/3, short to adequate elsewhere. Winter wheat condition generally good, fair to good north-central, central, and southwest. Range feed supply short to adequate western 1/3, north-central, and central; adequate elsewhere. Livestock movement heavy. Cattle 80% moved, sheep 85% moved.

NEBRASKA: Warm Monday, cold remainder of week. Hard freeze October 18 and 19 entire State except Panhandle and Southwest. Precipitation light. Amounts up to 1.90 inches in some areas of south-east. Harvest fall crops limited progress. A general freeze 18th and 19th should aid drying, but rain at weekend stopped harvest operations. Corn harvest 24% complete, compared with 49% last year, and 29% normal. Moisture of grain 23%, 3 points above last year. Cutting of silage corn continued limited basis. Losses from stalk rot minimal. Grain sorghum 44% harvested, nearly normal but far behind last year's 85%. Moisture 11% compared with last year 14% percent. Soybeans harvest 60% complete compared with last year's 94% and normal at 73%. Moisture 13%, one point above last year.

NEVADA: Temperatures 6° below normal extreme south. Near normal elsewhere. Moderate to heavy precipitation all stations. Elko, 1.18 inches; Mountain City, 1.05 inches; Yucca, 1.09 inches. Precipitation past few weeks relieved drought. Alfalfa seed harvest continues delayed by wet weather with approximately 10% of acreage to be harvested. Cotton in Pahrump Valley defoliated but recent rains caused growth to start again. Picking must now wait until after first freeze. Recent precipitation has assured growers in southern valleys a 7th cutting of alfalfa. Range feed conditions much improved and most areas will go into winter in good shape. Moisture received too late in central area to put crested wheat in good condition. Livestock generally good condition with calves weaning out at about 400 lbs as usual.

NEW ENGLAND: Second unseasonably cold week. Means averaged 7° to 12° below normal. Many new record lows set on 20th for so early in fall. At Burlington, Vt., 15° was also a new low for month of October. Some records also on 19th, with Caribou, Maine, reporting 14° for lowest so early in fall. A few stations in north reported lows in single numbers. Very dry week with precipitation totals mostly from a trace to 0.10 inch, except in extreme southeast where major

storm on 19th gave Nantucket 1.50 inches and appreciable amounts also to Cape Cod, Rhode Island, and eastern Connecticut. Much of this fell as snow a short distance inland with up to 4.5 inches snow in Rhode Island, where totals were heaviest of record so early in season at some stations. Weather during week not favorable for completing potato harvest in Maine. Somewhat more than 5,000 acres left for harvest. Some frost damage to unharvested tubers. Cranberry harvest delayed by cold weather. Slightly over 3/4 harvested with completion expected by end of 1st week of November.

NEW JERSEY: Variable temperatures, mostly very cold, and an early-season snowfall with a state-wide freeze, highlighted weather. Temperatures ranged from mid-70's Monday to mid-teens on Saturday, and averaged from 7° to 13° below normal. Precipitation averaged 0.50 inch over northern counties and nearly 1.00 inch over remainder of State. Snow much of northern and central counties over night 18th with a few areas reporting as much as 2 or 3 inches. Trenton's 2.5 inches of snow is heaviest October snowfall in 85 years of record. Heavy frost during period. Harvest of vegetables continues. Sweet potato harvest good progress. Apple harvest is active. Cranberry harvest is between 2/3 and 3/4 complete. Some losses due to short labor supplies. No freeze damage. Harvest of soybeans and corn for grain general. Grain drilling nearing completion. Cover crops being planted as late crops are harvested.

NEW MEXICO: Heavy rain Wednesday and Thursday with totals more than 3.00 inches caused flash flooding of rivers southwestern quarter of State. Showers totaled less than 2.00 inches northeastern half of State. Cool days and seasonally warm nights. Much cooler during and after showers with local freezing north and high mountains. Locally heavy rains caused temporary halt to field activities; also further damage to hay still in windrows. All crops generally good condition and no frost damage. Harvest cotton and sorghum grain progressing slowly. Livestock and ranges good condition and improving. Cattle marketing seasonally active.

NEW YORK: Considerable day-to-day temperature variations with weekly averages below normal. Coldest period on 18th, 20th, and 21st when lows ranged in teens and low 20's with a few readings below 10° in northern New York. High temperatures ranged mainly in 40's. Warmest day was 16th, with mid- to upper 50's in western New York and low 50's elsewhere. Precipitation widespread on 16th, 17th, 18th, 19th and 22d and confined to western New York on 21st. Very light amounts averaging from a trace in eastern sections to 0.25 inch in western New York. Fieldwork limited to grain, corn, and dry bean harvest. Potato harvest on Long Island almost 75% complete and continued active in Upstate areas. Cabbage supplies remained steady while harvest of Danish type for storage increased. Cutting of cauliflower in Catskill section virtually completed. Grape harvest nearly over. Late variety apples being picked.

NORTH CAROLINA: Temperatures averaged much below normal. Range from upper 80's southeast afternoon of 17th to mid-teens northern mountains morning of 20th. A general freeze, some new record lows for so early in season. Showers 17th through 19th, totals zero to 2.00 inches, averaging 0.50 inch. Conditions early in week ideal for harvesting. Midweek rains and late week cold slowed activities. Peanut harvest gains momen-

tum, 62% dug, 50% threshed; behind normal. Corn harvest 70% complete, ahead of normal. Cotton picking underway all areas, 15% complete. Soybeans mature, some light harvest. Small grain 40% planted. Tobacco prices declined. Soil moisture most areas adequate, short some local areas, southern Piedmont, and southern Coastal Plains. Average days suitable for fieldwork 3.3.

NORTH DAKOTA: Sunny and cold becoming cloudy and milder on weekend. Light rain on 20th mostly in east-central and southeast. Temperatures averaged 8° to 12° below normal. A few record lows on 18th. Extremes: 0° and 61°. Corn picking, soybean combining, and sugar beet lifting continued, good progress. Good weather permitted farmers to finish harvesting some areas. Flax harvest wind-up stage.

OHIO: Winter conditions prevailed during part of week. On 18th, Cleveland had 1.4 inches of snow while on 19th they had 4.1 inches. Total precipitation amounts generally low. Minimum temperatures ranged from upper teens to lower 50's. Morning of 20th was coldest, 17° at Athens was lowest temperature in State. Toledo's 18° set new record for date. New lows set or tied at Youngstown, Cleveland, Columbus, and Zanesville. Maximum temperatures ranged from mid-30's to low 70's. General warming trend end of week. Damp cool weather, little sunshine, and soft fields continued to hamper harvest operations over much of State. Soil moisture supplies rated adequate 49%, surplus remaining 51%. Nearly 5 days favorable for fieldwork, but combining limited only to afternoon and evening hours. Corn for grain 20% harvested. Last year 55% and 40% average. Corn for silage about 90% completed. Soybeans 40% harvested, last year 75% and average 70% harvested. Digging potatoes 85% done. Over 1/4 sugar beets harvested. Stock piling started. Popcorn harvest 25% finished. Apple 60% picked while over halfgrape harvested. Winter wheat seeding 55% complete, last year 90% done. Heavy frost ended crop growth most of State.

OKLAHOMA: Temperatures highly variable with averages ranging from 11° below normal north-central to near normal southeast. Precipitation averaged 0.90 inch Panhandle to 4.10 inches east-central. Heavy rains over weekend most areas except Panhandle. Idabel in McCurtain County hit by 2 tornadoes early morning October 22. Weekend rains helped replenish soil moisture and will speed completion of small grain seeding in areas where farmers waiting for moisture. Germination and growth will be enhanced, especially in southwestern 1/3 of State where many farmers had dusted in their small grain. Grazing small grain fields quite limited but prospects materially improved most areas. About 2/3 intended wheat acreage up to acceptable stand, somewhat behind normal. Prior to the weekend rains, surface moisture rated 95% short and subsoil moisture 81% short. Harvest made rapid headway. Harvest of corn for grain 3/4 and sorghum grain 2/5 completed. This is normal progress for both crops. Cotton harvest over 1/5 completed, compared with 5-year average of 1/10. Over 1/2 peanut crop harvested. 5-year average 2/5. Soybean harvest nearly 1/3 completed. Mungbean harvest continues and some pecans being picked. Pasture and range conditions fair to good except southern 1/3 State, where range conditions mostly poor to fair. Supplemental feeding continues. Livestock mostly fair to good.

OREGON: Scattered light showers early in week followed by sunny days with warmest days and coolest nights at mid-period. Temperatures averaged mostly near normal. Minima 25° to 47°. Maxima 62° to 77°. Varied precipitation limited southeastern 2/3 of State totaled 0.10 to 0.20 inch with up to 0.60 inch south-central mountains. Weather mostly favorable for fruit and nut harvest and fall work except in Klamath Falls area where rain slowed fall seeding and land preparation. Potato harvest progressing normally, 85% complete. Sweet corn harvest nearing completion. Broccoli, cabbage, carrots, and cauliflower continue. Onions complete. Sugar beet digging continues. Pear harvest at Hood River nearing completion. Filbert and walnut harvest continues. Cranberry harvest in full swing. Fall pastures greening and fall feed situation looks good.

PENNSYLVANIA: Record cold and snow. Strong cold from Tuesday ushered in one of coldest October outbreaks on record. Statewide snow-fall Wednesday afternoon and early Thursday deposited generally 1 to 2 inches, up to 4 inches higher elevations. Record low temperatures Friday morning, mostly teens and low 20's. 8° at Philipsburg was 1° above lowest ever recorded in Pennsylvania in October. Weekly means 8° to 14° below normal. Total precipitation mostly 0.25 to 0.75 inch. Freezing temperature caused minor damage. Grape harvest expected wind up this week, very little damage. Apple harvest full swing, shortage of pickers. Corn harvest 1/4 completed. Moisture content high. Some damage to late-planted corn. Potatoes 86% finished. Winter wheat 86% seeded. Top soil moisture 4/5 adequate, 1/5 short.

PUERTO RICO: Frequent heavy showers and intense thunderstorms middle of week centered in interior portions. Highest weekly total 13.26 inches western interior mountains. Rainfall averaged 2.02 inches or about 0.27 inch above normal. Crop moisture conditions near normal all divisions except western interior where heavy rains flooded some fields temporarily. Small dry area of less than 0.50 inch in northwest and south-central coasts. Temperatures averaged 81° on coast and 76° interior divisions with mean departure of 1.2° below normal. Highest maximum: 96°; lowest minimum 57°. Young sugarcane and ratoons developing well. Coffee harvesting delayed by heavy rains. Tobacco planting well underway. Pasture sowing, fertilizing, and cultivating under favorable weather following weeks of agricultural drought. Many zones report good progress planting and abundance of most food crops on market.

SOUTH CAROLINA: Temperatures averaged 2° above normal all sections in spite of first autumn freezing temperatures on 20th. 0.50 to 1.00 inch of rain in north as front preceding the cold air moved through. Cotton 40% harvested compared with 44% last year. Corn 81% harvested compared with 68% last year. Soybeans fair condition, 3% harvested compared with 1% last year. Pecans poor to fair condition. Pastures, wheat and oats poor to fair condition. Winter grazing 60% planted, wheat 16% planted and oats 25% compared with 13% and 22%, respectively, last year. Fall hays 92% harvested compared with 91% last year. Fall vegetables hurt by dry conditions. Harvest cucumbers and snap beans in Charleston--Beaufort area.

SOUTH DAKOTA: Temperatures averaged from 8° below normal in west to 15° below normal in east. Extremes ranged from 6° near Parkston on 19th to 72° at Oelrichs on 16th. Some record low temperatures on 19th included 11° at Brookings and 13° at Watertown and 9° at Sioux Falls. First general snow of 1 to 2 inches in lower elevations on 18th. Precipitation mostly end of week with totals ranging from a trace in west to over 0.50 inch in southeast. Harvesting of row crops made good progress. Recent hard freezes helped harvest conditions for row crops. Moisture mainly slowed combining but corn picking continued strong. Above-average corn yields nearly all areas. Some late sorghum light weight due to frost damage. Soybean yields good. Hard freezes in Clark County damaged unharvested potatoes. Corn 36% harvested, normal 44%, last year 71%. Soybeans 73% harvested, normal 73%, last year 92%. Sorghum 36% harvested, normal 65%, last year 89%. Greenbugs still problem some fall grain areas. Condition of winter wheat, poor to good. Recent moisture helped but many fields still spotty. Most rye looks good. Calf marketings increasing. Main farm activities care of livestock, general preparations for winter in West River areas, and row crop harvest in East River.

TENNESSEE: General precipitation most of State. Accumulated amounts generally moderate but locally heavy. Temperatures averaged 4° to 10° below normal. Largest departures from normal in east. First freezing temperatures of season many areas of central and east on 20th or 21st. Field crop harvest at standstill due to heavy rains. Major farm activities care of livestock and waiting for dry weather. Soybeans 10% harvested, cotton 40%, corn 45%. Burley 35% stripped. Wheat 60% planted, oats and barley 85% planted. Pasture conditions above average. Days favorable fieldwork averaged 2.7. Soil moisture 66% surplus, 34% adequate.

TEXAS: After 2 1/2 weeks of warm, dry weather, moderate to heavy rains fell over the entire State except extreme south. By the end of the week the coldest air of the season spread over Texas leaving 30° readings and some freezing light rain in the northern Panhandle. Farmers on High and Low Plains made good progress harvesting corn and sorghum before rains late in week stopped all harvest operations. Cotton rapidly reaching maturity some harvest underway on Low Plains and Southern High Plains. Peanut harvest progressing well; yield prospects outstanding. Major crops percent harvested: Cotton 32, 23 last year; corn 95, 93 last year; sorghum 62, 62 last year; soybeans 33, 30 last year; peanuts 75, 47 last year; sugarbeets 29, 9 last year. Percent planted: wheat 84, 84 last year; oats 82, 67 last year. On the High Plains seasonal decline green peppers. Moderate supplies of carrots, lettuce remain available. In the Trans-Pecos, tomato, green pepper picking continues. Harvest of sweet potatoes nearing completion in East-Texas. In the Winter Garden-San Antonio area, light harvest of cabbage, peppers underway. Cucumber picking gaining momentum. Carrots continue to make good growth. At Laredo, peppers, tomatoes continue to show good growth. In the Coastal Bend, land preparation for next spring's melon crop continues. Cucumber and squash harvest in full swing. Light supplies of tomatoes entering market. In the Lower Rio Grande Valley, seeding of vegetable continues. Tomatoes, peppers continue to make good growth and set fruit. Slow germination some

areas. Pecan harvest gaining momentum and should peak in about two weeks. Crop remains spotty with areas along Red River and Upper Coast reporting poor crops but rest of State generally good. The 1972-73 citrus crop continues to size well in Cameron and Willacy Counties. Lack of size in Hidalgo County slows harvest. Grapefruit and Orange supplies expected to increase during week.

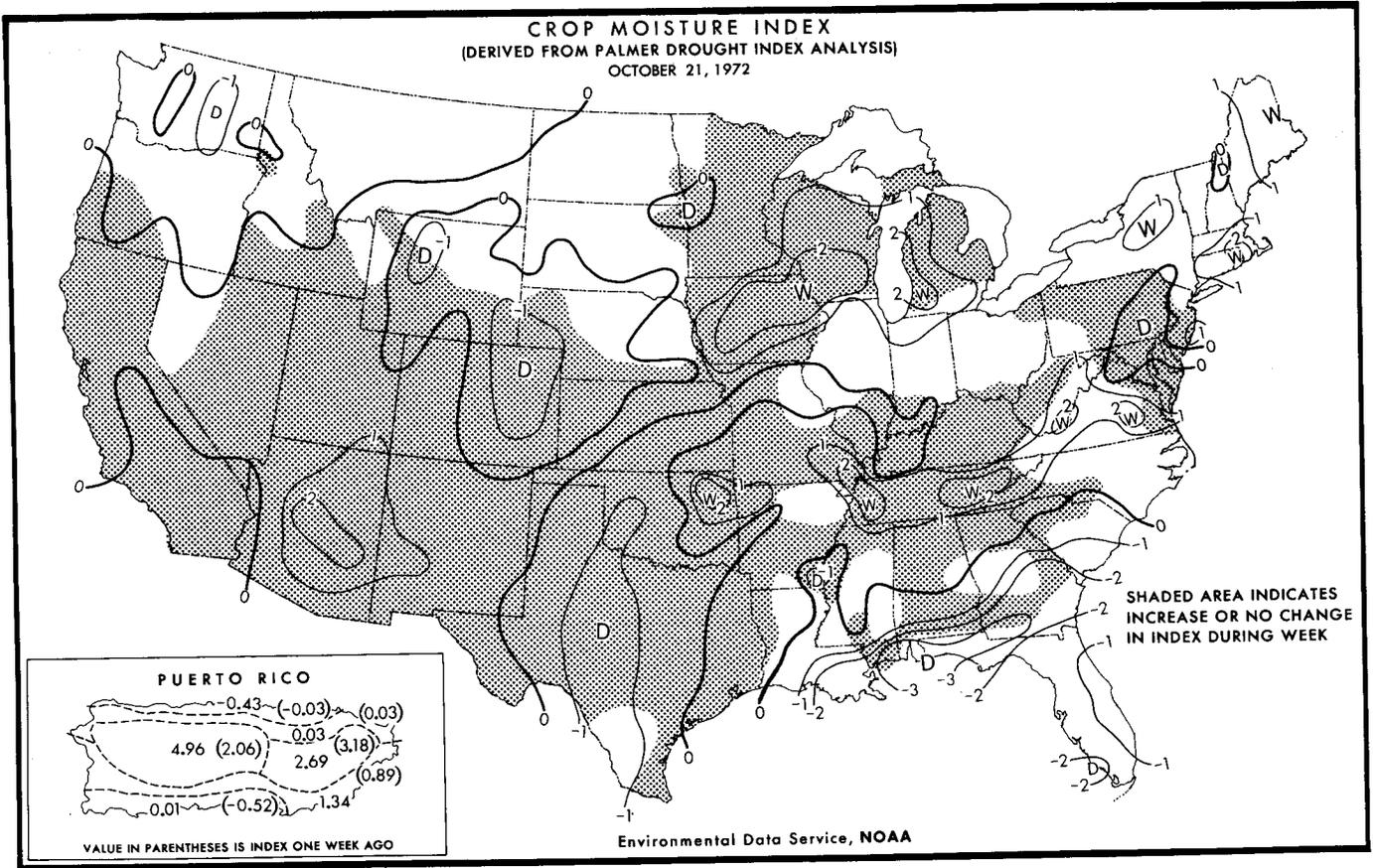
UTAH: Moderate to heavy precipitation most areas. Precipitation in drought areas unusually heavy. Blanding recorded 3.24 inches and Escalante 3.07 inches. Precipitation has done much to alleviate major drought problems although a few localities still below normal accumulations for period since April 1. Temperatures averaged 2° to 5° above normal at most stations. Harvest of late crops delayed or halted by wet weather. Only 3 1/2 days suitable for fieldwork. Acreage harvested now estimated at 45% for sugarbeets, 85% for potatoes, 70% for dry beans, 15% for corn for grain, 25% for cabbage. 10 counties still report small acreages of 3d and 4th crops alfalfa hay to be harvested. Dry onions lifted, but some still in fields in sacks waiting to dry before hauling to storage. Movement down from summer ranges to valley farms and winter ranges now 85% complete for cattle and sheep. Movement to slaughter 50% complete for cattle and calves, 75% for sheep and lambs.

VIRGINIA: Temperatures mostly below normal. Freezing temperatures most locations. Scattered showers at beginning and rain followed by snow flurries in the mountains Wednesday and Thursday. Topsoil moisture 63% adequate, 37% surplus. Harvest delayed by slow maturing of crops and frequent rains. Corn silage harvest nearing completion. Corn for grain 40%, nearly finished in southeast, 80% in upper coastal plains. Soybean harvest progress very slow. 5% complete. Yield outlook good. Peanut digging 40% complete, stopped by rains Thursday. Lowest percent dug on record since 1943. Combining 20% complete. Marketing of flue-cured tobacco continued. Other types being prepared for sale. Pastures excellent. Wheat seeding 40% complete. Behind schedule. Barley 65%. Winter oats 70%. Apple harvest active but late.

WASHINGTON: Western Washington: Beautiful Indian summer weather with an average high about 60° and low of 40°. Harvest of many vegetables continued. Few scattered showers caused no problems with grain seeding. Cattle doing well. Pasture growth slow because of cool nights. Eastern Washington: Unusually warm and sunny weather made good harvest conditions for sugarbeets, carrots, corn and potatoes. Nearly all apples and grapes have been picked. Seeding winter wheat and barley continued despite lack of moisture in many areas. Emergence slow but uniform, however, crusting becoming a problem.

WEST VIRGINIA: Early snow October 19 gave 1 inch falls over most of State and up to 2 inches higher mountains. Temperatures in 20's October 20 was coldest weather ever at most stations for so early in season. Weekly temperatures averaged 8° to 10° below normal. Weekly precipitation totals varied from 0.50 to 1.00 inch over State. Soil moisture mostly adequate. Pastures fair to good. Corn and apple harvest continues. Most farmers preparing for winter weather.

(Continued on back page)



INDEX DECREASED DURING WEEK
(Unshaded Areas)

INDEX INCREASED OR DID NOT CHANGE DURING WEEK
(Shaded areas)

INDEX

- ABOVE 3.0 SOME DRYING, BUT STILL EXCESSIVELY WET.
- 2.0 to 3.0 MORE DRY WEATHER NEEDED, WORK DELAYED.
- 1.0 to 2.0 FAVORABLE, EXCEPT STILL TOO WET IN SPOTS.
- 0 to 1.0 FAVORABLE FOR 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 EXCEPTIONALLY DRY, MOST CROPS ABOUT RUINED

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 ABOVE NORMAL, SOME FIELDS TOO WET.
- 0 to 1.0 MOISTURE ADEQUATE FOR PRESENT NORMAL NEEDS.
- 0 to -1.0 PROSPECTS IMPROVED, BUT RAIN STILL NEEDED.
- 1.0 to -2.0 SOME IMPROVEMENT, BUT STILL TOO DRY.
- 2.0 to -3.0 DROUGHT EASED, BUT STILL SERIOUS.
- 3.0 to -4.0 DROUGHT CONTINUES, RAIN URGENTLY NEEDED.
- BELOW -4.0 NOT ENOUGH RAIN, STILL EXCEPTIONALLY DRY.

The map above is based on weekly areal mean values of temperature and precipitation for 350 climatological divisions. Weather during previous weeks has been taken into account through successive weekly computations of both topsoil and subsoil moisture. The map shows recent crop moisture conditions; i.e., areas in which crops have been hindered by abnormal dryness or wetness, and areas where moisture conditions have been favorable.

This is a generalized picture; local variations caused by the occurrence or absence of heavy rain or by soil differences are not shown. Shallow rooted crops and crops in areas with poor soils are likely, on occasion, to suffer more than indicated. Conditions may be better than shown in areas having exceptionally good soils.

The legend applies primarily to growing rather than matured vegetation. Interpretation of the

effects on crops and native vegetation must, therefore, take account of the stage of growth as well as the status and trend of moisture conditions. The trend is indicated by the shading which denotes areas where the index did not decrease below its value of a week previous; i.e., conditions did not become noticeably drier during the week. A trend toward drier occurred in the unshaded regions. The lines show the crop moisture situation according to the computed index values which may be interpreted using the legends above. One legend applies to the unshaded areas, the other to the shaded. Centers of relative maximum and minimum index values are marked for easier recognition - W for wet and D for dry. In irrigated regions the index values merely reflect departures from ordinary irrigation requirements.



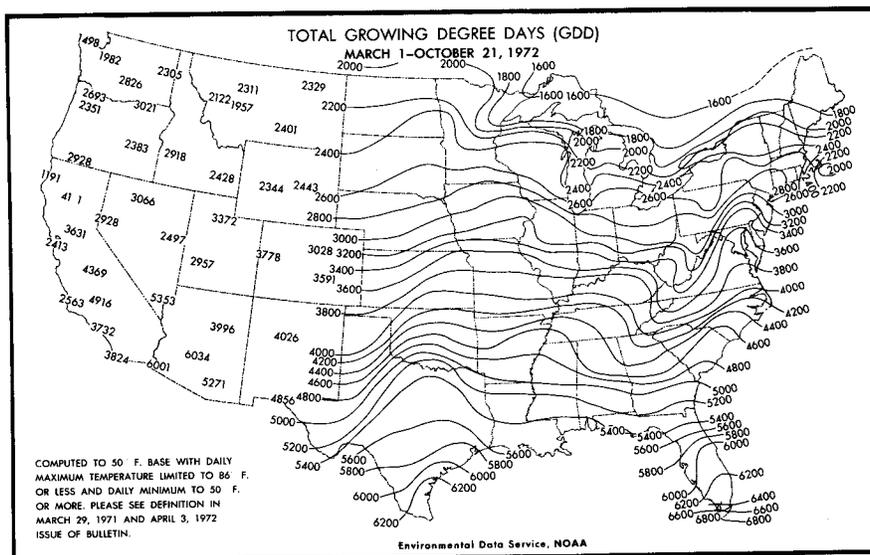
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WISCONSIN: Very cold autumn weather with temperatures averaging 10° to 15° subnormal. Mostly sunny and dry to Friday. Cloudy and rainy weekend. Between 2.00 and 3.00 inches of rain over much of south brought harvest work to a standstill. A few inches of wet snow along northwestern fringes of rain area Sunday. Also a light dusting of snow across southwest earlier in week. Cold temperatures with some wind damaged unpicked apples, some potatoes, and seed corn. Temperatures in teens common throughout State away from Great Lakes with coldest reading of 6° above zero from Black River Falls area. Fieldwork very active before weekend rains. Most of silo filling of corn completed. Corn for grain 15% harvested. Last year 30%. Corn still high in moisture content for cribbing. Early reports indicate good yields. Crop better than usual on sandy soils. Most fields standing well though some lodging especially in blighted fields. Some soybeans combined earlier in week. Yields good. A few farmers cutting 2d and 3d crop hay. Scattered harvest of oats for what must be record late harvest dates. Potato, late vegetable, and apple

harvests finishing up. Abandonment of acreage this year much above normal. About 20% of fall plowing completed. Soil moisture 20% adequate and 80% surplus. Most reports of adequate soil moisture from northwest.

WYOMING: Snow and rain general west of Divide, scattered east. Bondurant reported most moisture with 0.93 inch. Temperatures averaged 2° to 5° above normal west of Divide, near normal east. Maxima mostly high 50's to low 70's. Minima mostly high teens to low 30's. Temperature Extremes: 78° at Guernsey Dam and 16° at Bondurant. Agricultural activities included harvesting corn for grain, digging sugar beets, and working and shipping livestock. 75% of sugar beets dug with little frost damage. Sugar content averages 16.5%. 25% of corn for grain harvested. Winter wheat prospects good. 70% of yearling cattle, 60% of calves, and 85% of lambs marketed. Surface and subsoil moisture short to adequate. Winter feed supplies adequate with fall and winter pastures good condition.