

1872-Centennial-1972

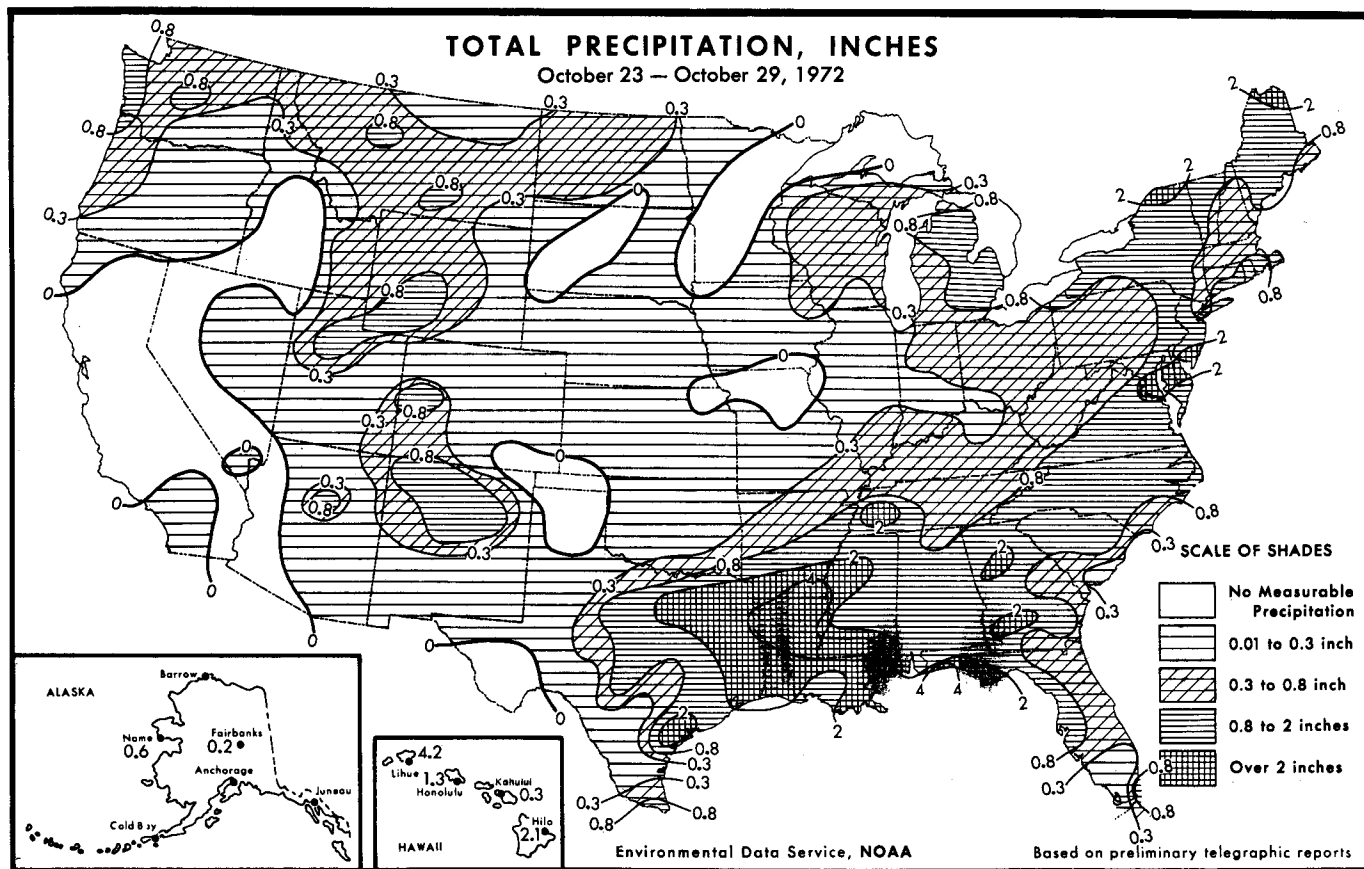
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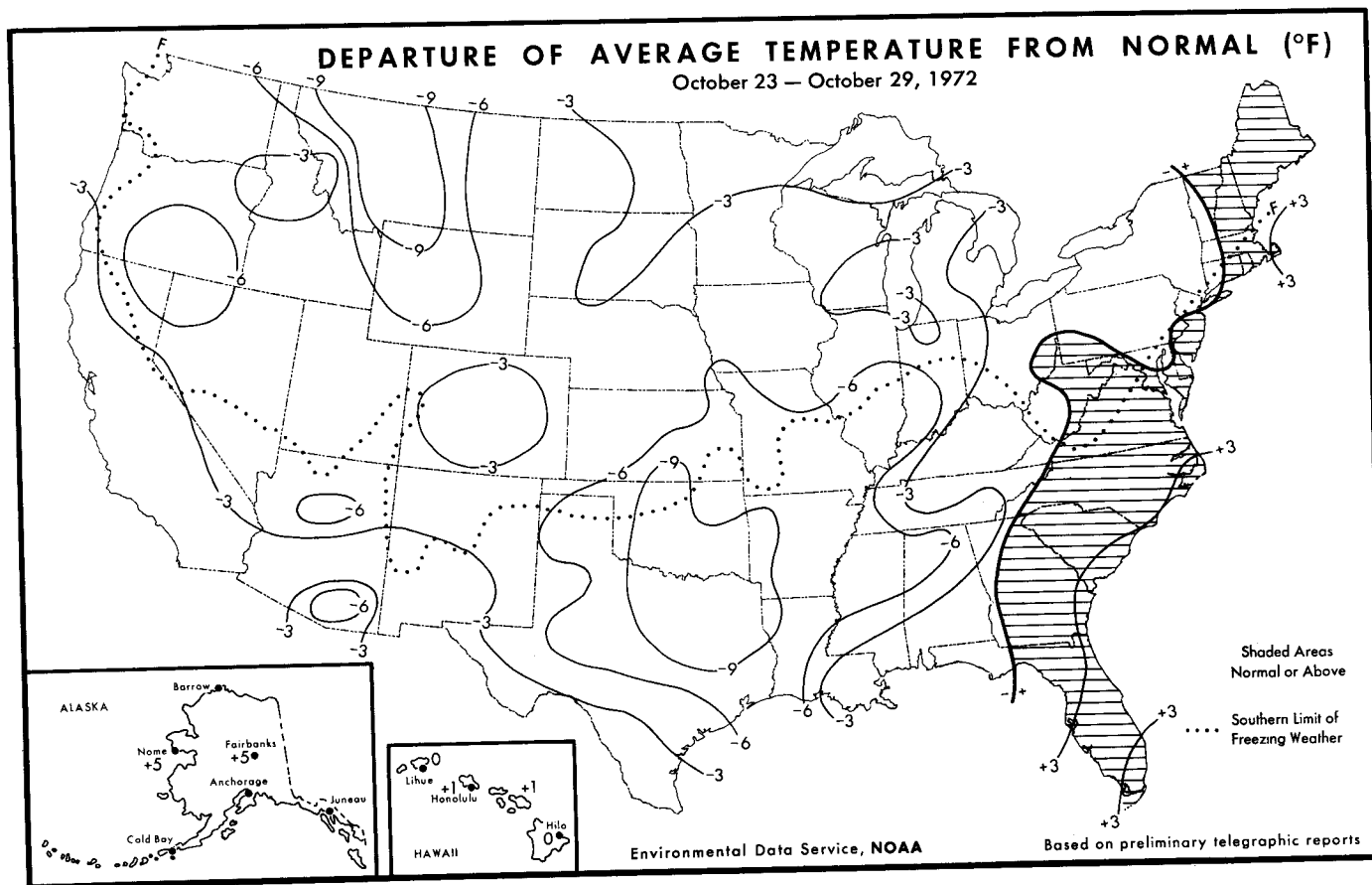
NATIONAL WEATHER SUMMARY

HIGHLIGHTS: Cool weather continued over most of the Nation. Heavy showers fell in Lower Mississippi River Valley.

PRECIPITATION: A vigorous storm centered over the Lower Great Lakes early in the week spread cloudy skies, winds, and rain over much of the eastern half of the Nation. Snow was mixed with the rain from southeastern Minnesota to Upper Michigan. By late Tuesday, the cold front associated with the storm had pushed off the Atlantic Coast but dismal cloudy weather persisted east of the middle and lower Mississippi River. Precipitation was widespread but mostly light. Some drizzle and fog occurred in the northern Appalachians.

At midweek, two Highs controlled the weather. An eastern High extended from north-

ern New England to the southern Great Plains. The western High reached from Idaho to Southern California. Fair weather prevailed over most of the Nation. However, light rain or drizzle continued in the Pacific Northwest, the southern Rocky Mountains, southern Texas and Florida and combinations of rain and snow occurred from Michigan and northern New England. As the weekend approached, snow fell in western Montana where Kalispell received 2 inches Thursday. The storm in the Pacific Northwest intensified, moved inland, and spread rain along the Washington and Oregon Coast and snow in the nearby hills and mountains. The weekend also brought dismal rainy weather over the eastern third of the Nation, from the Great Lakes to the Gulf of Mexico. The rain spread to New York and New England.



The heaviest rains fell in northern Louisiana where some totals exceeded 6.00 inches. No rain or only widely scattered showers fell in California and nearby parts of neighboring States.

TEMPERATURE: A storm centered over the Lower Great Lakes early in the week brought cold Canadian air to the northern Great Plains. By Tuesday, strong northwesterly winds aloft were cooling much of the Nation from the Rocky Mountains to the Appalachians. Sub-freezing weather occurred as far south as Kansas and northern Oklahoma. Afternoon temperatures ranged from the 40's over the northern Great Plains to the 50's, 60's, and 70's in Texas. By early Tuesday afternoon, the cold front associated with the storm had moved off the Atlantic Coast and sunny pleasant weather returned to mid-America. The northern Great Plains warmed to the 50's and 60's Thurs-

day afternoon. A High over the East at midweek brought chilly Canadian air over the East. Florida, however, continued mild with afternoon temperatures in the 80's. Ft. Myers and Palm Beach each registered 87° Wednesday and 88° Thursday. As the weekend drew near, one High cooled the Northeast and warmed the Great Plains. Temperatures over South Dakota reached the 70's Thursday afternoon, 76° at Pickstown. A western High cooled Washington and Montana. Omak, Wash., recorded 25° Thursday morning. Winter temperatures moved eastward over the weekend. The mercury at West Yellowstone, Mont., dropped to zero Sunday morning.

Temperatures averaged above normal along the middle and southern Atlantic Coast and below normal over most of the rest of the Nation. Parts of the southern Great Plains averaged 4° to 10° cooler than normal.

L. W. Dye

NATIONAL AGRICULTURAL SUMMARY

AGRICULTURAL HIGHLIGHTS: Adequate moisture available in Texas and Oklahoma for completing winter wheat planting. * Corn, cotton and soybean harvest slowed by wet weather.

SMALL GRAINS: Winter wheat recently planted in northern Texas and eastern Oklahoma has adequate moisture for germination. Seeding is complete in Kansas, nearly complete in Oklahoma and 91 percent complete in Texas. Farmers in the Southern Plains will complete their planting intentions as fields dry. Oklahoma wheat pasture prospects are greatly improved with some early wheat fields being grazed. Early stands of wheat and oats in Texas have responded to good moisture and grazing is increasing. Winter wheat stands are in good shape from Kansas northward and across Montana to the Pacific coast. Wet fields have slowed wheat seeding in the East North Central States to about 78 percent complete. Good rains in the South provided much needed moisture for small grains planting.

CORN: Cool, damp weather slowed the lagging harvest of the Nation's corn crop during the past week. About 39 percent of the total acreage is harvested, an increase of 10 percentage points over the previous week's progress. In the North-Central States where harvesting is 34 percent complete, wet fields dried slowly and farmers could do only a little over 3 days fieldwork. The East North Central States lag far behind schedule with only 27 percent of the crop picked while the West North Central States at 39 percent complete are not as far behind average progress. In Iowa, the leading corn producing State, harvest is 30 percent complete compared to an average of 34 percent. The Illinois crop is 33 percent picked compared to a normal of 50 percent. Indiana corn is 25 percent harvested compared to a 30 percent average. Minnesota harvesting at 53 percent complete is ahead of the normal 41 percent. Corn harvesting in the southern States is over two-thirds complete which is slightly behind average.

COTTON: Heavy rainfall across the south delayed cotton harvesting again last week causing some damage to quality. The delay enabled gins to work off a heavy backlog of cotton waiting to be ginned. About 47 percent of the crop is harvested in the South Atlantic and South Central States--an increase of only 5 percentage points over the previous week. Harvest progress so far is about normal and well ahead last year's slow pace. The Texas harvest at 33 percent complete is moving at its usual slow pace for this time of year while farmers wait for the bulk of the Texas crop to mature. Unseasonably cool weather the past week delayed maturity of Texas cotton. Dry weather is needed in most southern States for harvest to resume its normal progress. The Mississippi cotton harvest advanced to 72 percent complete while cotton picking in Arkansas is 65 percent complete. In California, cotton harvesting resumed following previous week rains, but harvesting in Arizona and New Mexico was limited due to wet conditions.

SOYBEANS: Wet weather slowed the Nation's lagging soybean harvest which at 57 percent complete gained only 7 percentage points over the previous week. Another week of cloudy, cool weather with scattered light showers in the North Central States hindered harvest progress now 69 percent complete while heavy rainfall throughout the South virtually halted combining operations. In Illinois, the leading soybean producing State, soybeans are 80 percent harvested compared to a normal of 90 percent. Harvesting in Indiana and Ohio at 50 percent complete is running about 2 weeks behind. The Iowa harvest at 80 percent complete is right on schedule. Rain held Arkansas combining to 33 percent complete while the Mississippi crop is 40 percent harvested.

OTHER CROPS: Harvesting of sorghum grain in Texas at 71 percent complete was slowed by high moisture content of grain. The crop is about 57 percent combined in Nebraska and Missouri and over 40 percent complete in Oklahoma. Tobacco stripping in Kentucky is 13 percent complete with another 47 percent ready to strip. Peanut harvesting reached 79 percent complete in Texas and advanced at a rapid pace in North Carolina with 87 percent dug and 67 percent threshed. Virginia peanut harvesting is 3/4 complete. Potato digging in Idaho is in the final stages. Heavy frost damaged unharvested Maine potatoes. The Idaho sugar beet harvest is in full swing while the Colorado crop is nearly 3/4 complete. Rice combining in Arkansas is nearly finished while the second cutting of the Texas crop is 51 percent complete.

Fruits and Nuts: Apple harvesting is in the final stages in most Northeastern orchards. The Western New York crop is 60 percent complete while the Hudson River Valley crop is 85 percent complete. Apple picking continues in full swing in the North Central States. Florida citrus groves benefitted from light rains while the Texas citrus harvest gained momentum -- quality of early grapefruit is excellent. Filbert and walnut harvesting continue in Oregon under excellent weather, but wet ground delayed California walnut picking. The Georgia pecan harvest is underway with fair prospects.

Vegetables: Harvest of fall vegetables in Florida is active with sweet corn, cucumber, radishes, snap beans and squash being shipped in volume. Onion planting continues in the Lower Rio Grande Valley of Texas while cabbage and other vegetable crops make good growth. Lettuce harvest resumed in Cochise County, Arizona. Broccoli and cauliflower are moving in good volume from the Salinas and Santa Maria areas in California.

PASTURES AND LIVESTOCK Good rains in the South Central and South Atlantic States greatly benefited fall pastures. Rains soaked extremely dry areas in Georgia and South Carolina. Fall and winter pastures in most western States are in good shape. Cattle movement to market continues active.

Arlon M. Scott
Agricultural Statistician

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., OCTOBER 29, 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 . . .	56	- 6	1.5	+ .8	New Orleans . . .	63	- 4	3.2	+2.6	OKLA.Okla. City . .	49	-10	T	- .5
Mobile . . .	65	- 1	1.2	+ .6	Shreveport . . .	55	- 9	4.2	+3.5	Tulsa . . .	51	- 7	.2	- .5
Montgomery . . .	62	- 1	1.3	+ .8	MAINE.Caribou . . .	38	- 1	2.0	+1.2	OREG.Astoria . . .	47	- 4	1.1	-1.2
ALASKA.Anchorage . .	---	---	---	---	Portland . . .	47	+ 2	1.4	+ .7	Burns . . .	38	- 7	T	- .2
Barrow . . .	---	---	---	---	MD.Baltimore . . .	53	- 1	1.9	+1.2	Medford . . .	43	- 6	.1	- .4
Fairbanks . . .	24	+ 5	.2	0	MASS.Boston . . .	54	+ 3	.7	- .1	Pendleton . . .	46	- 3	.1	- .2
Juneau . . .	---	---	---	---	Nantucket . . .	51	---	.3	---	Portland . . .	47	- 4	.5	- .4
Nome . . .	31	+ 5	.6	+ .3	MICH.Alpena . . .	40	- 3	1.0	- .5	Salem . . .	47	- 4	.3	- .9
ARIZ.Flagstaff . . .	37	- 6	1.4	+1.1	Detroit . . .	46	- 2	.9	+ .3	PA.Allentown . . .	49	- 1	1.5	+ .9
Phoenix . . .	64	- 2	.1	0	Flint . . .	45	- 1	1.2	+ .7	Erie . . .	47	- 1	1.0	+ .3
Tucson . . .	59	- 6	.1	0	Grand Rapids . . .	44	- 3	.7	+ .2	Harrisburg . . .	51	- 1	.4	- .3
Winslow . . .	50	- 3	.2	+ .1	Houghton Lake . . .	39	- 4	.9	+ .3	Philadelphia . . .	54	+ 2	1.1	+ .5
Yuma . . .	68	- 2	0	- .1	Lansing . . .	44	- 3	1.1	+ .5	Pittsburgh . . .	49	0	.4	- .1
ARK.Fort Smith . . .	50	-10	.5	- .2	Marquette . . .	42	- 2	.2	- .2	Scranton . . .	47	0	1.4	+ .6
Little Rock . . .	53	- 6	1.4	+ .7	Muskegon . . .	37	-12	.3	- .2	R.I.Providence . . .	52	+ 2	1.3	+ .6
CALIF.Bakersfield . .	63	- 1	0	- .1	S.Ste.Marie . . .	40	- 3	.1	- .4	S.C.Charleston . . .	69	+ 6	.2	- .3
Eureka . . .	52	- 1	.1	- .9	MINN.Duluth . . .	36	- 3	T	- .5	Columbia . . .	63	+ 2	1.3	+ .9
Fresno . . .	59	- 2	0	- .1	Internatl Falls . .	38	0	.2	- .1	Greenville . . .	58	- 1	1.4	+ .6
Los Angeles . . .	65	- 1	T	- .1	Minneapolis . . .	41	- 4	.1	- .2	S.DAK.Aberdeen . . .	40	- 3	.2	0
Red Bluff . . .	59	- 3	0	- .4	Rochester . . .	40	- 5	.2	- .2	Huron . . .	41	- 3	.2	0
San Diego . . .	64	- 1	T	- .1	St. Cloud . . .	38	- 4	0	- .4	Rapid City . . .	39	- 7	T	- .1
San Francisco . . .	59	0	0	- .2	MISS.Jackson . . .	59	- 4	.6	0	Sioux Falls . . .	41	- 5	T	- .2
Stockton . . .	59	- 1	0	- .2	Meridian . . .	59	- 3	1.2	+ .6	TENN.Chattanooga . .	53	- 5	1.5	+ .8
COLO.Denver . . .	46	- 1	.1	- .1	MO.Columbia . . .	47	- 6	T	- .6	Knoxville . . .	54	- 3	.5	- .1
Grand Junction . . .	47	- 3	.8	+ .7	Kansas City . . .	47	- 8	.5	- .1	Memphis . . .	52	- 7	1.2	+ .4
Pueblo . . .	49	- 1	T	- .2	St. Louis . . .	48	- 6	.1	- .5	Nashville . . .	56	- 2	.6	0
CONN.Bridgeport . . .	54	+ 2	1.2	+ .5	Springfield . . .	48	- 8	T	- .8	TEX.Abilene . . .	55	- 8	.9	+ .4
Hartford . . .	54	+ 4	.6	0	MONT.Billings . . .	37	- 9	1.1	+ .9	Amarillo . . .	50	- 7	0	- .3
D.C.Washington . . .	57	+ 1	2.1	+1.4	Glasgow . . .	36	- 5	.1	0	Austin . . .	61	- 7	.5	- .1
FLA.Apalachicola . .	69	+ 1	2.6	+2.1	Great Falls . . .	35	- 9	.9	+ .8	Beaumont . . .	60	- 7	2.0	+1.3
Ft. Myers . . .	78	+ 3	.1	- .4	Havre . . .	33	- 9	.2	0	Brownsville . . .	74	0	1.1	+ .5
Jacksonville . . .	71	+ 3	.7	- .1	Helena . . .	31	-11	.4	+ .2	Corpus Christi . . .	69	- 3	.2	- .3
Key West . . .	81	+ 3	T	- .1	Kalispell . . .	30	- 9	.7	+ .4	Dallas . . .	54	-10	2.7	+2.1
Lakeland . . .	75	+ 3	1.7	+1.2	Miles City . . .	39	- 5	.4	+ .3	Del Rio . . .	65	- 3	.1	- .2
Miami . . .	77	+ 1	1.1	+ .2	Missoula . . .	37	- 3	.3	+ .1	El Paso . . .	59	- 1	T	- .1
Orlando . . .	76	+ 5	.3	- .2	NEBR.Grand Island .	44	- 5	.1	- .1	Fort Worth . . .	55	- 9	3.3	+2.8
Tallahassee . . .	66	0	1.6	+1.2	Lincoln . . .	45	- 7	T	- .3	Galveston . . .	64	- 7	1.2	+ .5
Tampa . . .	75	+ 3	1.4	+1.1	Norfolk . . .	44	- 4	T	- .2	Houston . . .	61	- 6	1.0	+ .1
GA.Atlanta . . .	58	0	2.4	+1.8	North Platte . . .	41	- 6	.2	+ .1	Lubbock . . .	53	- 4	.2	- .1
Augusta . . .	62	0	.7	+ .3	Omaha . . .	44	- 6	.1	- .2	Midland . . .	55	- 7	.2	- .1
Macon . . .	63	+ 1	.8	+ .4	Valentine . . .	42	- 3	T	- .1	San Angelo . . .	58	- 7	.4	+ .1
Savannah . . .	68	+ 4	.5	0	NEV.Ely . . .	38	- 4	.1	0	San Antonio . . .	64	- 3	.2	- .3
HAWAII.Hilo . . .	75	0	2.1	- .4	Las Vegas . . .	58	- 4	.1	0	Victoria . . .	66	- 4	2.9	+2.2
Honolulu . . .	79	+ 1	1.3	+ .8	Reno . . .	42	- 3	T	- .1	Waco . . .	56	-10	1.8	+1.2
Kahului . . .	78	+ 1	.3	0	Winnemucca . . .	38	- 6	T	- .2	Wichita Falls . . .	51	-11	.5	0
Lihue . . .	77	0	4.2	+3.0	N.H.Concord . . .	50	+ 5	.6	0	UTAH.Blanding . . .	44	- 4	.4	+ .2
IDAHO.Boise . . .	44	- 4	T	- .3	N.J.Atlantic City . .	54	0	1.5	+ .8	Salt Lake City . . .	44	- 3	1.2	+ .9
Lewiston . . .	45	- 3	.2	- .1	Trenton . . .	54	+ 1	1.5	+ .8	VT.Burlington . . .	44	0	1.1	+ .4
Pocatello . . .	40	- 5	.3	0	N.MEX.Albuquerque . .	50	- 3	1.3	+1.1	VA.Lynchburg . . .	56	+ 1	1.5	+ .9
ILL.Cairo . . .	52	- 6	.8	+ .1	Roswell . . .	---	---	---	---	Norfolk . . .	60	+ 1	1.1	+ .4
Chicago . . .	46	- 5	.2	- .5	N.Y.Albany . . .	40	- 7	.8	+ .2	Richmond . . .	57	+ 2	1.7	+1.0
Moline . . .	46	- 5	T	- .5	Binghamton . . .	44	- 2	1.0	+ .3	Roanoke . . .	53	- 2	.9	+ .2
Peoria . . .	45	- 6	.2	- .4	Buffalo . . .	46	- 1	1.1	+ .5	WASH.Colville . . .	36	- 6	.4	- .1
Rockford . . .	45	- 3	.2	- .4	New York . . .	54	- 1	.7	0	Omak . . .	39	- 5	.5	+ .2
Springfield . . .	46	- 6	.1	- .5	Rochester . . .	48	- 1	1.1	+ .5	Quillayute . . .	44	- 5	1.6	-1.2
IND.Evansville . . .	47	- 8	.4	- .2	Syracuse . . .	47	- 1	1.7	+1.0	Seattle-Tacoma . . .	47	- 3	.6	- .5
Fort Wayne . . .	46	- 3	.6	0	N.C.Asheville . . .	55	+ 1	1.3	+ .7	Spokane . . .	40	- 5	.1	- .3
Indianapolis . . .	45	- 6	.3	- .3	Greensboro . . .	55	- 1	.8	+ .2	Walla Walla . . .	---	---	---	---
South Bend . . .	47	- 2	.7	0	Hatteras . . .	66	+ 4	1.6	+ .7	Yakima . . .	42	- 4	T	- .2
IOWA.Burlington . . .	45	- 6	T	- .5	Raleigh . . .	58	+ 1	1.3	+ .8	W.VA.Beckley . . .	50	0	.7	+ .1
Des Moines . . .	45	- 5	.1	- .3	Wilmington . . .	65	+ 3	.5	- .1	Charleston . . .	52	- 2	.6	0
Dubuque . . .	43	- 3	.4	- .2	N.DAK.Bismarck . . .	37	- 5	.5	+ .4	Huntington . . .	50	- 3	.7	+ .3
Sioux City . . .	45	- 4	T	- .3	Fargo . . .	39	- 3	.2	0	Parkersburg . . .	53	0	.3	- .1
KANS.Concordia . . .	49	- 4	T	- .3	Williston . . .	37	- 4	.4	+ .3	WIS.Green Bay . . .	42	- 3	.3	- .1
Dodge City . . .	48	- 5	.1	- .2	OHIO.Akron-Canton . .	49	0	.6	+ .1	La Crosse . . .	42	- 4	.5	- .2
Goodland . . .	44	- 4	.3	+ .1	Cincinnati . . .	50	- 2	.3	- .1	Madison . . .	43	- 3	.2	- .2
Topeka . . .	48	- 6	0	- .4	Cleveland . . .	48	- 2	.6	0	Milwaukee . . .	44	- 2	.7	+ .2
Wichita . . .	47	- 9	T	- .5	Columbus . . .	50	0	.4	- .1	WYO.Casper . . .	38	- 6	.7	+ .5
KY.Lexington . . .	51	- 3	.3	- .2	Dayton . . .	49	- 3	.4	0	Cheyenne . . .	39	- 5	.1	0
Louisville . . .	51	- 3	.4	- .2	Toledo . . .	45	- 3	.5	0	Lander . . .	35	- 8	1.2	+ .9
LA.Baton Rouge . . .	64	- 2	.8	- .3	Youngstown . . .	46	- 2	.6	0	Sheridan . . .	38	- 6	.3	+ .1
Lake Charles . . .	60	- 7	2.2	+1.5						P.R. San Juan . . .	83	+ 3	1.5	+ .3

* 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: Temperatures averaged slightly below normal with alternate warm and cool spells. Coolest Thursday morning with 30's north and 40's south. Locally heavy showers first of week but most of rain fell Thursday and Friday with 2.00- to 3.00-inch amounts common. Thunderstorms over north-central Alabama became locally severe Friday afternoon with tornado in northern Jefferson County. Rain slowed harvest most areas, but allowed gins to catch up. Slightly over 1/2 cotton harvested, compared with a little less than 1/2 a year ago. Open weather needed for harvest, especially in north. Nearly 2/3 corn for grain harvested, about a week ahead of last year. Almost all soybeans matured with about 2/5 combined. Yields reduced by drought, limited late acreage will not be combined. Growers will finish seeding small grains as harvest activities completed. Pastures furnished mostly adequate grazing in upper 1/2, grazing short southern 1/2. Rains should improve pastures in extremely dry areas and promote growth of winter grazing crops.

ARIZONA: Temperatures were much below normal most of State. Showers widespread 25th with light snow above about 7,000 feet. Water totals below 0.50 inch most areas. Cotton harvest limited. Grade depreciating due to wet weather. Grain sorghum harvest limited. Fall sugar beet harvest limited Cochise County. Alfalfa hay stands normal. Some hay lost wet weather. Small grain activity limited. Growers catching up fieldwork following heavy rains. Lettuce harvest resumed Cochise County. Lettuce Salt River Valley, Pima and Pinal Counties making good progress. Thinning, weeding lettuce active Yuma County. Chili harvest resumed Cochise County. Fall cantaloupe harvest continued Yuma County. Mixed vegetables making normal progress. Harvest navels, lemons, Algerian tangerines and Orlando Tangelos active Salt River Valley. Harvest lemons limited navel oranges Yuma County area. Ranges improved, rain and snow fell many areas. Precipitation improved soil moisture, stockwater supplies. Cattle, calves in fair to mostly good condition. Cattle movement active. Sheep, lambs fair to good. Fall lambing underway.

ARKANSAS: Weekly rainfall generally in excess of 2.00 inches over southern half of State with amounts in south-central section mainly in excess of 4.00 inches. Over northern half of State, weekly totals ranged from less than 0.25 inch in northwest corner to near 1.50 inches portions of northeast. Largest total at El Dorado with 4.99 inches. Most rain fell in latter part of week and on weekend. Unseasonably cool weather entire State with weekly departures ranging from -5° to -12°. Greatest departures generally in southern half of State. Cooling at midweek followed by milder weather weekend. Daily extremes ranged from 76° at Ozark in west-central on 23d to 26° at Calico Rock in north-central on 26th. Rains delaying harvest and causing some crop damage especially to cotton. Significant harvest early in week as fields dried out but more rain stopped fieldwork near weekend. Cotton picking about 65% complete. Delay in picking enabled most gins to work off heavy

backlog of cotton waiting to be ginned. Rains damaging to grades and yields. Fair to good outturn still expected, but open weather urgently needed. Combining very good rice crop nearly finished. Soybean harvest lags with only 1/3 acreage cut. Yields extremely variable depending on effects of earlier dry weather. Very little harvest of feed grains during week, bulk gathered earlier. Haying season virtually over, supplies short many upland farms. Growth excellent on early-seeded wheat and oats. Further planting underway as harvest soybeans and other crops progress. Rains favorable for southern greens, marketing underway. Spinach about ready Crawford County. Light pecan harvest begun in south. Pastures continue to improve and early-seeded small grains providing grazing. Livestock situation mostly favorable.

CALIFORNIA: Average temperatures near normal except 3° to 6° below normal desert. Warm daytime temperatures all areas, cooler over weekend. Strong northerly winds 29th and 30th northern half, freezing minimum temperatures many valley locations 30th. Light showers extreme south 27th. Pruning deciduous fruit underway. Table and wine grape harvest nearing completion. Almond harvest nearing completion. Walnut harvest continues, wet ground delayed picking, apple harvest final stages. Persimmon harvest continues, pomegranate harvest complete. Harvest olives declining, crop is short, fruit sizes good. Valencia orange harvest declining. Picking new navel crop increasing southern San Joaquin Valley. Light harvest avocados and lemons continues. Artichoke harvest increasing. Broccoli, cauliflower, good volume Salinas, Santa Maria. Fall cantaloupe harvest hampered wet weather. Carrot digging light. Celery good volume Salinas, Santa Maria. Sweet corn harvest continues southern California. Salinas lettuce cutting nearly complete. San Joaquin, Westside full swing. Onions continue seasonal decline. Potato digging northern California resumed as fields dried. Sweetpotato digging active San Joaquin Valley. Market tomato harvest slow northern San Joaquin Valley. Southern San Joaquin Valley picking underway. Harvest cotton, dry beans, silage corn, milo, rice resumed. Seedbed preparation continues. Range grasses growing. Fall pastures look good, grazing expected within the month. Supplemental feeding still active. Water supplies being replenished.

COLORADO: Mild middle of week, cooler at beginning and end. Temperature averages 2° to 6° below normal except along base of foothills where temperatures were near normal. Moderate showers mountains and southwest, lighter showers elsewhere. Some heavy snows in higher country and on most mountain passes. Wet conditions continue to prevent harvest activities west slope. Harvest progressed rapidly eastern plains. Topsoil moisture short to adequate. Subsoil moisture generally adequate. Condition winter wheat good to excellent, approximately 21% providing pasture. Corn grain harvest 35% complete. Sorghum 91% mature, harvest 20%

complete. Small acreage sorghum for forage remaining to be cut. Harvest fall potatoes virtually complete. Dry bean threshing complete all areas except southwest. Virtually no threshing in southwest last 3 weeks. Sugar beet harvest nearly 3/4 complete. Range and pastures fair to good. Livestock condition good.

FLORIDA: Temperatures near normal Panhandle and above normal elsewhere. Frontal system pushing into west Florida midweek brought considerable rain, high winds, thunderstorms, and several tornados to Panhandle. Front then pushed south-eastward through peninsula Saturday accompanied by widespread rains. Weekly rainfall amounts totalled near 2.00 inches Panhandle and 1.00 inch elsewhere except only scattered showers southwest division and Keys. Dry weather favored harvest of soybeans, but continued to delay planting of small grains. Rains late in period should enable all planting to begin. Soybeans about 3/4 harvested. Pastures fair and need moisture, light supplemental feeding underway. Cattle and calves mostly fair to good. Citrus grove condition excellent, light rains general, more needed. Cooler temperatures aiding natural fruit coloring. Harvest of fall vegetables active. Shipments totaled 787 carlots last week, sweet corn leading at 298 carlots, followed by cucumbers, radishes, snap beans, and squash. Other commodities in light, but increasing volume are leaf crops, eggplant, celery, tomatoes, peppers, okra, cabbage and carrots.

GEORGIA: Rains early in week and on Friday ended a prolonged period of dry weather in central and south. Totals ranged from 0.50 inch to locally over 6.00 inches with heaviest amounts in southwest and north. Rains decreased east and parts of extreme east-central and southeast need additional moisture. Temperatures seasonally mild with highs mostly in 60's and 70's and lows in 40's and 50's. Averages ranged from near normal northwest to 5° above normal southeast. Soil moisture still short to very short many areas east-central and southeast. Rains Friday brought some relief. Most northeast counties adequate supplies with some surplus. Cotton fair, 67% harvested. Corn fair to mostly good, 73% picked. Soybeans poor to fair, 43% harvested. Pecan prospects fair, harvest underway south. Pastures poor to fair. Cattle mostly good condition.

HAWAII: Weather favorable for crop progress. Heavy rain alleviated dry condition most areas. Crops benefitted, pastures received much needed moisture. Spraying continued heavy to control insects. Supplies of vegetables generally adequate. Bananas plentiful, papayas gradually increasing. Sugar operations normal. Pineapple plantings and field preparation still active.

IDAHO: Temperatures for the week averaged slightly below normal. Temperatures ranged as much as 5° to 9° cooler than last week. Precipitation all sections except southwest. Greatest totals east ranging to about 0.75 inch upper Snake River Plains. Warm days favorable to harvest operations except end of week. Potato digging now in final stages. Sugar beet harvest in full swing. Fall seeding condition good. Little supplemental feeding as home pastures furnishing adequate forage.

ILLINOIS: Temperatures averaged 5° to 8° below normal. Lowest readings in south and central where number of stations reported lows in upper 20's early Thursday morning. Precipitation

totals over 1.00 inch common all but extreme south where amounts averaged around 0.50 inch. Greatest amounts northwest where a few totals of over 2.00 inches. Wet weather hindering harvest. Corn 1/3 harvested, normal 1/2; 70% in 1971. Soybeans slightly over 80% harvested, normal nearly 90%; in 1971 virtually complete. Winter wheat seeding 90% complete, nearly 95% in 1971. Plowing 1/4 complete, 1/3 in 1971. Pastures supplying 65% of roughage requirements for livestock. Pastures 84% good to excellent condition. Moisture supplies 7% short, 60% adequate, 33% surplus. Averaged 3 1/2 days favorable for fieldwork.

INDIANA: Another cloudy, cool, wet week resulted in poor drying conditions. Temperatures averaged 3° below normal and ranged from the high 20's to 70°. Precipitation averaged 0.30 to 0.70 inches. Humidity high and solar radiation very low. Three days suitable for fieldwork. Upper 2/3 of soil still wet. Topsoil and subsoil moisture mostly adequate to surplus. Corn 25% harvested, 30% average. Soybeans 50% combined, 2 weeks behind average. Wheat 65% seeded, 12 days behind average. Barley 90% seeded. Apples 85% picked, same as average.

IOWA: Cool week with negligible precipitation except moderate eastern counties of north-central. Wet weather continues to slow harvesting throughout State. Slightly less than 30% of corn harvest complete, behind 1966-1970 average of 34% and 1971's 62%. Soybean harvest approximately 80% complete, about same as average but behind last year's 90%. Slightly less than 60% grain sorghum harvested. Popcorn harvest approximately 55%. Slightly more than 3 days suitable for fieldwork. Topsoil moisture 56% adequate and 44% surplus.

KANSAS: Unseasonably cold. Temperatures averaged 4° to 9° below normal. Daily maxima ranged from 30's extreme northwestern Kansas 28th to 70's parts of State 26th. Minima mostly 30's and 40's except hard freeze northwest 24th. Precipitation 0.10 to 0.25 inch on Wednesday averaging generally under 0.10 elsewhere. First snow of season northwest on 28th with 1 inch at Goodland. Harvest of fall crops slowed by damp grain and muddy fields. Grain sorghum 38% harvested, 70% last year, 53% average. Corn 55% picked, 72% year ago, 52% average. Soybean harvest 58% completed, 71% year ago, 69% average. Sugar beet harvest well along. Silo filling nearly completed. Wheat 99% seeded, 98% last year, 98% average. Wheat making good progress, but cool temperatures limited growth. Some volunteer and early-seeded wheat being grazed. Livestock movement active.

KENTUCKY: A cloudy, cool and damp week. Temperatures averaging 1 to 4 degrees below normal most sections. Rainfall totals from about 1/4 inch to about 1 inch. Maximum temperatures below normal most days but in the upper 60's to low 70's on the 23rd. Minimum temperatures above normal most days, but in the mid-20's to low 40's on the 26th. No rain on the 26th but dense fog over much of central Kentucky until about noon. Rain or drizzle one or more sections other days, general on 23rd and 27th. About 4-1/2 days suitable for outdoor activities. Combining corn, soybeans, sowing small grains and stripping tobacco were main activities. Soil moisture mostly adequate to surplus. Corn harvest 55% complete, 66% last year. Corn crop late and slow to dry, yields good. Soybeans 47% harvested, 48% last year. Tobacco stripping 13% complete, 12% last year. Another 47% ready to strip, quality

good. Treatment of tobacco seed beds underway, 70% use methyl bromide, 23% burn, and remainder use various methods. Sowing small grains continues. Pastures good to excellent condition.

LOUISIANA: Warm Monday but cold front followed by wave cyclone development in Gulf kept weather cloudy and cool much of week. Warmer Sunday south with return of Gulf moisture. Temperatures averaged 5° to 7° below normal north and central, 1° to 4° below normal in south. Temperature extremes 86° in Boothville Monday, 37° Ashland Thursday. Rainfall moderate to locally heavy Thursday with the passage of the Gulf storm. Scattered rain fell north and central Sunday. Weekly totals ranged from less than 1 inch to more than 4 inches. Greatest reported 1-day total 3.23 inches Mansfield Friday morning. Harvest of cotton, soybeans and sweetpotatoes almost at standstill entire week because of excessive moisture. Some damage to cotton and soybeans reported. Sugarcane harvest slowed by mud and trash. Percentage harvest completed compared with a year ago: cotton 55 and 45; soybeans 60 and 55; sweetpotatoes 90 and 85; sugarcane 20 and 15. Harvest other field crops virtually completed. Gathering of native and seedling pecans active--harvest of improved varieties getting underway. Early-seeded wheat, oats and rye grass showing good growth. Recent seedings germinating. Pasture feed above average. Livestock in good condition.

MARYLAND AND DELAWARE: Temperatures, cool 25th, 27th, and mild 28th, 29th, averaged 1° to 3° below normal. Extremes upper 60's to low 70's, upper 40's to upper 50's. Precipitation mostly during periods 23d, 24th, and 28th, 29th. Rainfall for 23d, 24th light and variable ranging from 0.10 inch to 0.50 inch western Maryland. For period 28th and 29th, it was moderate to heavy in eastern sections and lighter in west ranging from 0.25 inch to over 2.00 inches. Corn harvest progressed rapidly. Soybean harvest slow starting. Growth of late soybeans stopped by October 20 freeze and leaves drying rapidly, but not shedding yet. Seeding of winter grains following closely behind late crop harvest. Weekend rains beneficial to grain and cover crop seedings.

MICHIGAN: Cool except near seasonal midweek, significant precipitation most areas ended early in week. Temperature averages 1° to 3° below normal Upper Peninsula; 1° to 5° below normal Lower Peninsula. Precipitation totals: 0.30 to 1.00 inch central decreasing to a trace west and east Upper Peninsula; 0.50 to 1.75 inches Lower Peninsula except 0.10 to 0.25 inch extreme west and north sections. Harvest halted by very wet fields start of week, but resumed on drier soil about midweek. Only 2.5 days suitable for fieldwork. Soil moisture surplus most areas. Grain corn harvest delayed because of wet fields and high moisture content of ears. Grain corn only 16% harvested compared with 50% last year. Soybeans 41% harvested compared with 45% last year. Most colored beans harvested. Sugar beets over 60%, fall potatoes 93% harvested. Winter wheat planting about complete. Apple harvest continues active; grape harvest finished.

MINNESOTA: Temperatures below normal again. Southern part 5° below normal to near normal on northern border. Extremes: 69°, 12°. Temperatures have been below normal for every month from January through October except for May which was above normal. This compares to 1917.

Little to no precipitation during period. However, on 30, light rain and/or snow was falling across entire State. Hallock reported 6 inches of snow between 6 and 10 p.m., 29th. Good harvesting progress in central and western districts, but slow in eastern district due to wet fields. Soybean harvest nearing completion in south-central and southwest districts. Fieldwork was possible for 6 days in western districts but only 3 days in southeast district. Topsoil moisture adequate in western 2/3 of State, adequate to surplus eastern 1/3. Corn picked 53%, normal 41%. Corn moisture 25%, normal 26%. Soybeans combined 86%, normal 77%. Soybean moisture 14%, normal 15%. Corn land plowed 18%, last year 12%. Soybean land plowed 51%, last year 32%.

MISSISSIPPI: Temperatures averaged 2° to 6° above normal most of State. Rainfall quite widespread with significant amounts on 2 to 3 days. Light scattered frost portions of northeast and north on morning of 26th. Minimum temperatures on 26th were in low to mid-30's over north with 32° at Holly Springs and 33° at Ripley and Corinth. Rainfall ranged from 1.00 to 3.00 inches most areas with weekend amounts averaging 0.25 to 0.50 inch. Rain slowed the harvest of all crops. Days suitable for fieldwork averaged 3.2. Cotton 72% and Soybeans 40% harvested. Harvest of rice complete. Pasture and livestock condition mostly fair to good.

MISSOURI: Mostly cloudy cool week with little rainfall. Temperatures averaged 4° to 6° below normal as cloudiness held down daytime temperatures. Rainfall amounts mostly traces from drizzle with a few southern locations receiving around 0.25 inch. Three days suitable for fieldwork. Corn 47% harvested, 71% a year ago. Soybeans 52% harvested, 69% last year. Grain sorghum 56% harvested, 77% a year earlier. Cotton harvest 46% completed, 65% a year ago. Fall seeding 75% completed, same as year earlier. Pastures good condition. Soil moisture 11% short, 63% adequate, 26% surplus.

MONTANA: Temperatures averaged from about 5° below normal in western and eastern divisions to about 10° below normal through central divisions. Mild first half of week turning much colder over weekend with snow most areas. Precipitation generally above normal with amounts ranging from 0.50 inch to 1.00 inch except north-central and northeast. Winter wheat growth and condition good to excellent eastern 1/3, fair to good elsewhere. Top and subsoil moisture adequate to surplus northeast and south-central, short to adequate elsewhere. Sugarbeet harvest slowed by precipitation end of week, 90% harvested. Cattle and sheep 90% moved, good condition.

NEBRASKA: Cool weather, except Thursday, October 26, when temperatures were in the 70's. No precipitation middle of week. Over weekend light rains mixed with light snow fell in Panhandle, central, and along the Platte Valley eastward. Since temperatures reached high 30's and 40's snow soon melted. Monday morning snow in Panhandle, freezing rain in central, rain in east. Harvest of fall crops main activity, slowed in east by rain, good progress in west. Harvest progressed slower than normal and far behind last year's early harvest. Corn harvested for grain now 33% completed, compared with 64% last year and 41% normal. Moisture in grain at 22% is one point less than last week, but 3 points above average. Sorghum 57% harvested

compared with 90% last year and 61% normal. Some sorghum starting to lodge, but is confined to local areas. Sorghum grain moisture 15%, same as last year. Soybeans 75% harvested, compared with 95% last year and 87% normal. Moisture 12% same as last year. Sugar beet harvest continues at rapid pace with 90% harvested. Wheat good condition with even stands providing good cover. Green bugs reported wheat with some local areas spraying for control.

NEVADA: Very cold week with temperatures 2° to 5° below normal; coldest north. Storm over weekend brought trace of rain or snow north and light to moderate precipitation south. Coldest 6° at McDermott; warmest, 78° Logandale. Windy weekend with some damage. Harvest of alfalfa seed and other crops complete except in south. Cotton picking in Pahrump Valley delayed until after the first freeze. 7th cutting of alfalfa hay nearly complete in southern valleys. Planting winter wheat and barley continues in some areas. Cattle and sheep remain in generally good condition with movement to winter ranges nearing completion in most areas.

NEW ENGLAND: Return to more seasonable temperatures with means mostly near normal except some from 2° to 4° above normal in south half. Frequent precipitation north including some snow northern Maine early in week. Dry in south until general rain on weekend. Weekly totals generally 0.50 to 1.50 inches except some over 2.00 inches in northern Maine. Weather during week not favorable for completing Maine potato harvest. Local reports indicate somewhat more than 5,000 acres still not harvested. Heavy frost damage to potatoes still in ground. Very little picking of Massachusetts cranberry crop last week, need 4-5 harvest days to complete. Apple harvest virtually complete.

NEW JERSEY: Week of contrasts; first cold and dry, then warm and wet. Week averaged slightly colder than normal in north to near or slightly above normal in central and south interior parts of State. Extremes 73° on 25th and 22° on 27th. Precipitation mostly on 28th averaged 1.30 inches over north, 1.50 inches over central and southern interior counties, and 1.10 inches along coastal sections. Greatest total was 2.18 inches at Downstown airport. No severe storms. broccoli, cabbage, cauliflower, and spinach harvest light. Sweet potato harvest nearing completion. Apple and cranberry harvest in cleanup stage. Soybean and grain corn harvest made good progress. Soil moisture good for small grain germination and growth.

NEW MEXICO: Cooling then warm with extreme temperatures generally on Sunday reaching freezing in much of north. Seasonally cool days and warm nights with average temperatures mostly below normal except in southeastern plains. Scattered showers throughout State until weekend. Heaviest totals were from 0.50 to more than 1.00 inch in Rio Grande and San Juan Valleys. Most field activity halted by wet fields. Soil moisture adequate to surplus. Rains beneficial to ranges, fall-planted grain. Sufficient moisture to carry grains through winter. No killing frost to date. Harvest grain sorghum, peanuts less than 25% complete; broomcorn near end, cotton about 30% picked. Ranges, livestock good.

NEW YORK: Week began with moderate temperatures throughout State Monday but was followed by an

influx of cooler air on Tuesday in west. On Wednesday, the cooler air had advanced across entire State. Temperatures climbed to upper 40's Wednesday except Lower Hudson Valley where lower 50's recorded. Temperatures began return to normal latter part of week with high temperatures ranging from upper 50's to lower 60's while the low readings were in the 30's and 40's. Showers 23d and 24th and ranged from slightly over 0.50 inch in central and west to 0.25 inch east. Showers again 28th and amounted to 0.25 inch throughout State. Fieldwork limited to harvest of corn, dry beans, and hay and some fall plowing. Long Island potato harvest nearing completion. Cold weather slowed development of cauliflower and supplies declined. Orange County celery harvest completed. Freezing temperatures during week damaged potato acreage in the southern tier. Storage cabbage harvest progressing slowly due to late season and wet conditions. Grape harvest completed. Western New York apple harvest about 60% completed, delayed by wet and cool weather. About 85% of Hudson Valley crop harvested.

NORTH CAROLINA: Rain 24th, 27th and 28th. Totals 0.50 inch to 3.00 inches, mostly 1.00 to 2.00 inches. Temperatures averaged near normal, remaining above freezing except light freeze mountains and northwest Piedmont morning of 27th. Conditions generally favorable for harvesting. Rains slowed harvest about midweek, but good progress remainder of week. Peanut harvest advancing at rapid pace -- 87% dug, 67% threshed. Corn harvest 80% complete, well ahead of normal. Cotton picking 20% complete, behind normal. Unopen bolls damaged by freeze. Most soybeans mature, some scattered harvest. Small grains benefited by rains, 55% seeded. Apple harvest final stages. Soil moisture most areas adequate, surplus some local areas northern coastal plains. Averaged 3.8 days suitable for fieldwork.

NORTH DAKOTA: Sunny and mild through midweek. Change to colder Friday. Temperatures averaged 1° to 4° below normal. Snow in northwest 2/3 of State Friday and statewide Sunday. Snowfall up to 4 inches Friday and 1 to 5 inches Sunday. Farmers harvesting late fields of corn, sunflowers, and sugarbeets. Snow blanketed State end of week, halted fieldwork. Other activities were marketing livestock and fall application of fertilizer.

OHIO: Low temperatures ranged from mid-20's to upper 50's. Coldest morning was Friday with Toledo recording 26°, Oberlin 27°, and New Philadelphia 28°. High temperatures Monday ranged from low 60's to low 70's. On Tuesday and Wednesday, they remained in 40's. Rest of week, highs ranged from low 50's to the mid-60's. Rain fell on every day except Thursday. The greatest 24-hour amount occurred at Mt. Pelier where 0.68 inch fell from 7 a.m. Sunday to 7 a.m. Monday. Wet, soft field conditions continue to make harvesting crops difficult. Soil moisture supplies rated surplus 49%, adequate 51%. Only 4 days favorable for fieldwork during past week. Corn for grain 1/4 harvested, last year 65% harvested, average progress 50%. Soybean crop 1/2 harvested, usual progress 80%, last year 87% harvested. Apple and grape harvest 3/4 complete. Winter wheat crop 65% seeded against 95% a year ago, and average of 90% seeded.

OKLAHOMA: Temperatures averaged from 5° below normal Panhandle to 12° below normal southeast. Precipitation averaged only a few hundredths

inch all areas except south-central and south-east which had 0.70 inch and 2.40 inches respectively. Harvest operations delayed by wet fields, but recent rains beneficial. Small grains making good growth, wheat dusted in now germinating. Surface moisture 86% and subsoil 51% adequate--sharp improvement over previous week. Wheat pasture prospects greatly improved. Some early wheat fields being grazed. Many farmers getting cattle ready for small grain pastures, especially northern areas. Over 9/10 intended small grain acreage now seeded. Harvesting row crops made very little progress. Corn for grain just slightly over 3/4 harvested, sorghum grain little over 2/5 completed. Cotton 1/4 harvested, still substantially ahead of 5-year average. Peanut harvest 3/5 completed, several farmers turning dug peanuts to aid field drying before combining. Nearly 2/5 soybean crop combined. Native grasses furnishing only limited grazing, but supplemental feeding expected to decrease as small grain pasture becomes available. Livestock fair to good condition.

OREGON: Light rains first and last of week northwest with warmest days statewide at mid-period and sharp cooling at close. Temperatures averaged mostly 2° to 5° above normal. Rains totaled 0.15 to 0.65 inch northwest quarter of State, up to 0.02 inch northeast, and dry elsewhere. Fairly open weather permitted harvest of fruit, nut, and vegetable crops to proceed without interruption. Potato harvest winding up over State. Sugar beet harvest in full swing at Ontario. Sweet corn, broccoli, cabbage, carrots, and cauliflower continue in Willamette Valley. Filbert and walnut harvest continues, weather excellent for complete harvest. Cranberry harvest continues. Pear harvest essentially over. Early-planted fall grains up and looking good. Fall pastures and ranges good condition.

PENNSYLVANIA: Cloudy, with rain at start of week and over weekend. Temperatures near normal south, 2° to 4° below normal central. Extremes: 70°, 20°. Rainfall 0.25 to 0.50 inch south-central, 0.50 to 1.00 north-central and west, 1.00 to 1.50 inches east, mostly as result of weekend coastal storm. Corn picking and soybean combining full swing. Moisture content of corn remains high. Apple picking full swing, some orchards are winding up. Grape harvest in Erie County final stages end of week. Potato harvest nearing completion or finished in all sections.

PUERTO RICO: A cool rainy week with heavy showers and thundershowers islandwide except little or no rain northwest and south coast. Rainfall averaged 2.90 inches or 1.25 inches above normal. Highest weekly total, 9.25 inches western interior mountains. Generally less than 0.50 inch along south coast and northwest. Crops moisture conditions near normal all divisions except few zones western and eastern interior too wet where some fields flooded in heavier showers and too dry in northwest and south-central coasts. Temperatures averaged 79° to 80° in coasts and 75° interior division with mean departure of 1.7° below normal. Highest maximum temperature 93°, lowest minimum temperature 57°. Sugar cane developing well all zones except retarded in northwest and north-central non-irrigated zones. Coffee harvesting and drying operations slowed in some western zones due heavy rain showers. Little activity in tobacco zone. Pastures good to excellent all zones

except fair in northwest and north-central. Some fields flooded in west during heavy afternoon showers. Minor crops report some wind and rain damage to plantains and bananas. Weather has favored good abundance including eggplant, pumpkins, and other vegetables. Citrus developing nicely.

SOUTH CAROLINA: Rain early in week. Less than 0.50 inch in outer coastal plain and most of Piedmont, 0.50 to 1.00 inch in Sand Hills, inner coastal plain, and extreme northwest. Rain began again as week ended. Temperatures averaged near normal all sections. Some lows below 32° on 22d. Cotton 55% harvested compared with 52% last year. Corn 85% harvested compared with 73% last year. Soybeans 84% mature, 11% harvested compared with 2% last year. Pastures poor to fair condition. Winter grazing 64% planted, 47% emerged. Wheat, oats poor to fair condition. Wheat 17% planted, same last year, 7% emerged. Oats 26% planted compared with 27% last year and 12% emerged. Sorghum 46% harvested compared with 54% last year. Fall vegetables poor to fair condition. Harvesting snap beans continues Charleston--Beaufort area.

SOUTH DAKOTA: Weekly temperatures averaged from near normal to 5° below normal. Extremes ranged from a low of 15° at Aberdeen, Huron, and Philip on 28th to 80° at Wood on 26th. Precipitation mostly end of week as rain in east and snow in west, with amounts ranging from a trace in southeast to about 0.50 inch in northwest. Lemmon reported 0.50 inch, with 5.00 inches of snow morning of 30th. Corn harvest continues, late-planted corn with high moisture combined and dried or left in field to dry before picking. Soybean harvest hampered by damp weather. High moisture levels have delayed grain sorghum harvest. Corn 46% harvested, normal 58%, last year 81%. Soybeans 82% harvested, normal 90%, last year 98%. Sorghum 50% harvested, normal 79%, last year 100%. Fall-seeded grains variable: mostly good on summer fallow, but spotty on stubble. Greenbugs still problem with considerable damage to some fields central part of State. Calf marketings active. Cattle being moved from summer pastures to stubble and corn stalks. Pastures short in some areas. Livestock in good condition. Ample feed for winter. Farm activities include cleaning yards, building repairs, and crop harvest.

TENNESSEE: Week began and ended mild, but was well below normal middle of week. Temperatures averaged 3° to 9° below normal. Scattered showers early in week, more numerous weekend. Weekly totals varied from more than 1.00 inch parts of west to 0.50 inch in central and east. Less than 3 days were suitable for fieldwork as farmers fell farther behind with fall harvest. Harvest of corn at 50% complete and soybeans at 20% complete are both 1 week behind normal. Cotton harvest is 50% complete. Burley tobacco stripping is also 50% complete. Seeding of wheat 70% complete, while 90% of oats and barley seeded. Pasture conditions continue above average.

TEXAS: Generous rains totaling 1.00 to 4.00 inches fell over eastern 1/3 of the State during the week. Rains Thursday, Friday, and over the weekend when Goliad recorded over 9.00 inches. Rain much lighter in western 2/3 of State, mostly from 0.10 to 0.50 inch. Temperatures unseasonably

cool most of period except in Lower Valley. Minimum temperatures dropped into 30's and 40's in northwest early in week and mostly in 50's elsewhere. Maxima generally were in 60's and 70's. Moderate to heavy rain covered much of State and halted most planting and harvesting operations. Cotton maturity on High and Low Plains delayed. Sorghum harvest on High Plains delayed by high moisture content. Dry-planted wheat and oats have moisture for germination. Early stands of wheat and oats responded to good moisture and grazing increasing. Farmers will complete planting intentions as fields dry. Major crops percent harvested Cotton 33, 25 last year; corn 97, 95 last year; sorghum 71, 67 last year; soybeans 34, 37 last year; peanuts 79, 56 last year; rice 2nd 51, 52 last year. Major crops percent planted: wheat 91, 87 last year; oats 86, 74 last year. On High Plains, bell pepper harvest continues seasonal decline. Rains have hampered harvest during the week. Lettuce, carrots, cabbage still available in moderate supply. In Trans-Pecos, picking green peppers, tomatoes, cabbage continues. In East Texas, sweetpotato harvest delayed by rains. At San Antonio-Winter Garden, harvest of cabbage, pepper, cucumber underway. Some disease noted in cabbage fields. Carrots making good growth. At Laredo, tomatoes, peppers making good growth. In Coastal Bend, cabbage making good growth. Cucumber and squash picking continues. In Lower Rio Grande Valley, pepper harvest getting underway. Cabbage making excellent growth. Onion planting continues. Pecan harvest slowed this past week due to rains. Citrus harvest in lower Rio Grande Valley gaining momentum. Quality of early grapefruit excellent.

UTAH: First major snow storm of season moved across State over weekend. Snowfall amounts varied from little or none at some lower valley locations to 4 to 10 inches along western benches of Wasatch Mountains and several feet in higher mountains. Additional moisture in drought areas southern Utah to further improve soil moisture on winter ranges. About 104 of reporting stations reported 1.00 inch or more for period. Average temperatures ranged from near normal to 4° below normal. Soil temperatures, at 4-inch depth, now range from mid-40's Cache Valley and Salt Lake City to near 50° at Richfield and near 60° St. George. Harvest of some late crops halted again some areas by weekend storm. Sugarbeets 80% harvested. Frost in ground may delay harvest of remaining beets a few days, but no concern felt at present. Potatoes in south 90% harvested. Snowcover and wet fields will delay completion several days. A few hundred acres of alfalfa seed lying in windrows still unthreshed Delta area. Some dry beans, also in windrows and unthreshed, Monticello Area. Less than 1/2 corn for grain harvested, about normal. Cattle and sheep down from high country and on fall and winter ranges and on valley farms. Marketing to feed lots and to slaughter continues. Turkey processing near peak.

VIRGINIA: Temperatures below normal end of week, otherwise normal to above normal. Scattered showers at beginning and heavy rain over weekend.

Topsoil moisture supply 80% adequate, wettest areas in southeast. Corn harvest 55% complete, slightly ahead of last year. Record high yields reported. Soybean harvest beginning, 10% complete, yield outlook good. Peanut digging advanced to 3/4 complete, 1/2 crop combined, some damage from frost. Pastures unusually good. Seeding small grains excellent progress: wheat 50%, barley 75%, winter oats 80%. Apple harvest in final stages, most growers will finish this week.

WASHINGTON: Western Washington. Temperatures cooling with some sunny weather. Harvesting lettuce, cabbage, cauliflower, celery, squash, potatoes and pumpkins continues. Christmas tree cutting started. Pastures dwindling. Eastern Washington. Weather clear and cool. Main activities in orchard cleanup. Harvesting potatoes, sugar beets, corn, carrots, and spinach continues. Seeding and re-seeding of wheat continues but additional moisture still needed.

WEST VIRGINIA: Light rain showers October 27 and 28. Generally cloudy and cool, with freezing temperatures October 20, 21, and 27 most areas. Warmest October 22 with temperatures near 70°. Wet weather slowed apple picking and corn harvest. Apple crop damaged by October 20 freeze. Considerable amounts of corn remain for harvest. Pastures remain green with some grazing possible. Tobacco growers stripping crop.

WISCONSIN: Cool and mostly dry. Rainfall mostly less than 0.25 inch. Temperature extremes: 66° and 15°. Some fieldwork done latter half of week as ground dried enough after previous weekend's heavy rains. Corn for grain 20% harvested. Last year 40%. Yields good. Some losses due to stalk breakage. Many low fields will have to wait for freeze up. Some silage corn remains to be cut. Soybeans 20% combined. Last year 35%. Yields good but moisture content high. A few potatoes harvested in Antigo area. Cranberry harvest about over. A little hay harvested here and there. Hay in demand. New seedings good except where smothered by oats and straw remaining too long. Fall plowing 25% done. Last year 40%. Soil moisture 30% adequate and 70% surplus.

WYOMING: Most of the State received light to heavy snow and rain. Foxpark reported the most moisture with 1.81 inches. Temperatures averaged near to 6° below normal. Maxima were mostly 50's west of Divide and Upper Platte drainage, high 50's to low 70's elsewhere. Minima were mostly mid-teens to mid-20's west of Divide and Upper Platte Drainage, 20's elsewhere. Temperature extremes were 72° at Basin and 6° at Big Piney. Agriculture included harvesting corn for grain, digging sugar beets, fall plowing, and working and shipping livestock. Virtually all sugar beets dug with an average sugar content of 16.8%. Fifty percent of corn for grain is harvested. Winter wheat prospects good. Little frost damage reported. Winter feed supplies good with fall and winter pastures in good shape. Soil moisture supplies short to adequate.

WORLD WEATHER AND AGRICULTURE

RECORD RAINS DELAY ROMANIAN FARMERS

Rainfall during September and the first two weeks of October in Romania has broken records dating back to 1881, the beginning of meteorological data collection in Romania. The rains have created tremendous problems in harvesting corn, vegetables and other crops and the fall planting of wheat. The south-central portion of the country, Oltenia and Muntenia, have been particularly affected by the almost continuous rain. Sunflower and bean harvest is nearly completed, but the harvest of grapes, potatoes, sugarbeets, corn and forages has slowed considerably. Fall planting of wheat is normally completed by October 20, but this year planting was barely started by October 10 because of the wet weather.

DRY WEATHER AFFECTING CROPS
IN ENGLAND AND WALES

The weather in England and Wales during September was cool, but very dry, continuing a pattern established in early August. Conditions were ideal for the fall grain harvest, but dry weather seriously affected root crops. Sugarbeet production will be held back because of small root size. Potato yields will also be reduced by the dry conditions. Although potatoes have been unusually free from disease, harvesting in hard, dry soils has resulted in increased mechanical damage. Soils were too dry for much fall plowing to be completed. Pastures were also short because of the dry weather and cool nights.

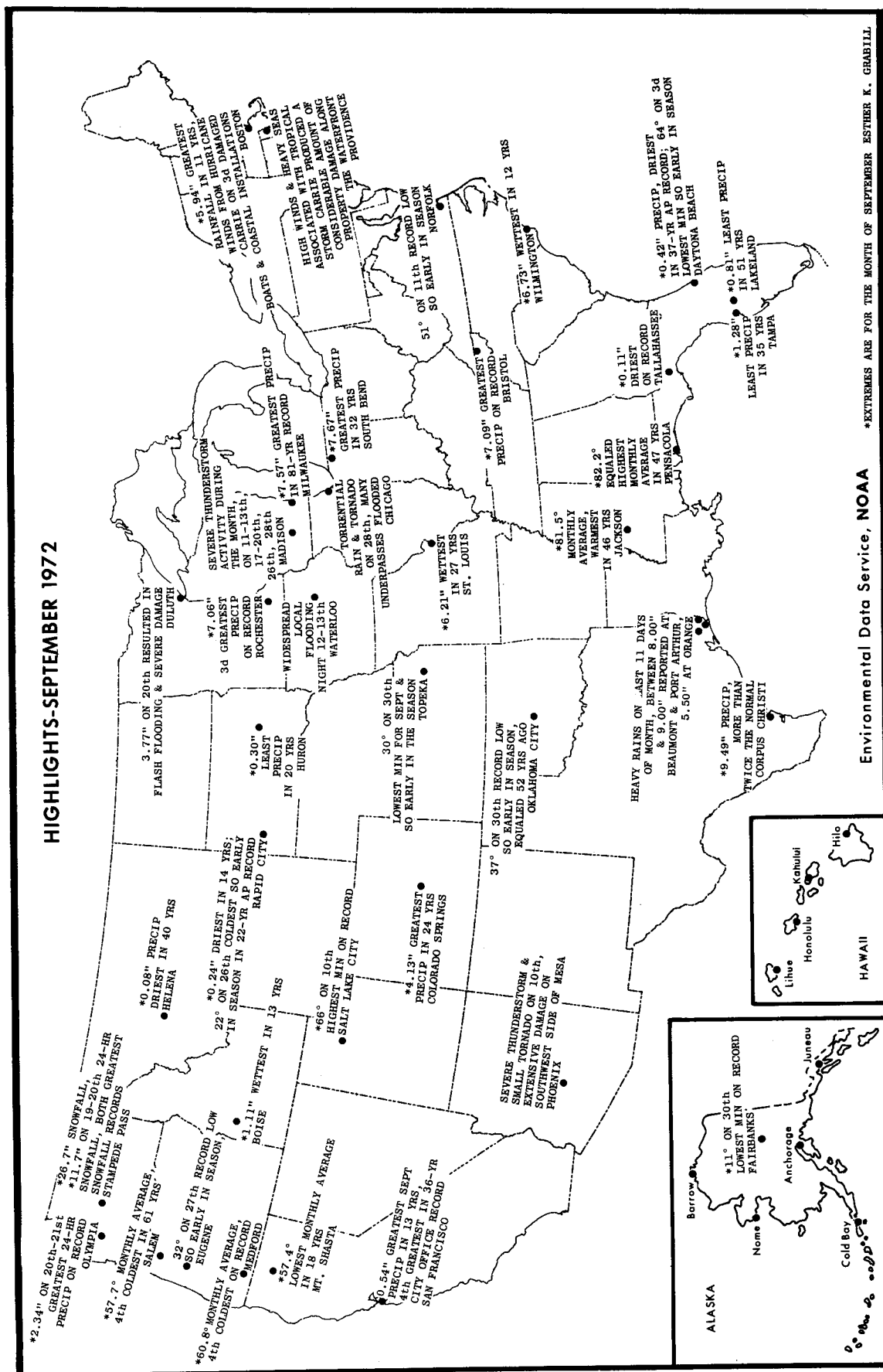
Monthly Agricultural Report
Ministry of Agriculture
October 13, 1972

WEATHER AIDS RECORD
AUSTRALIAN SUGARCANE CROP

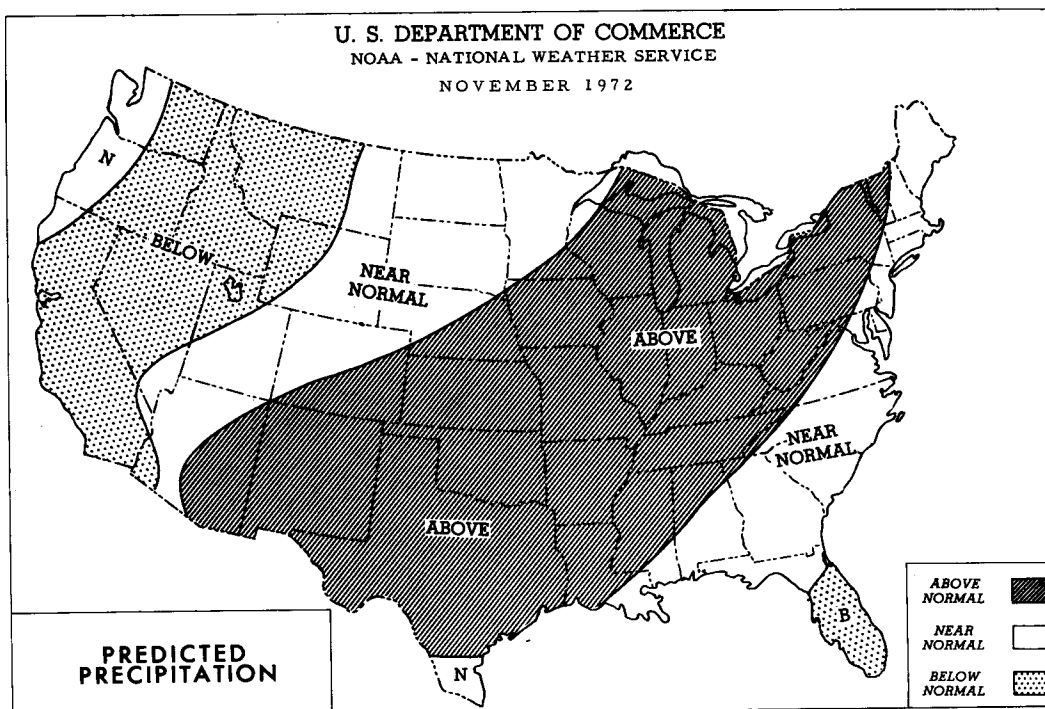
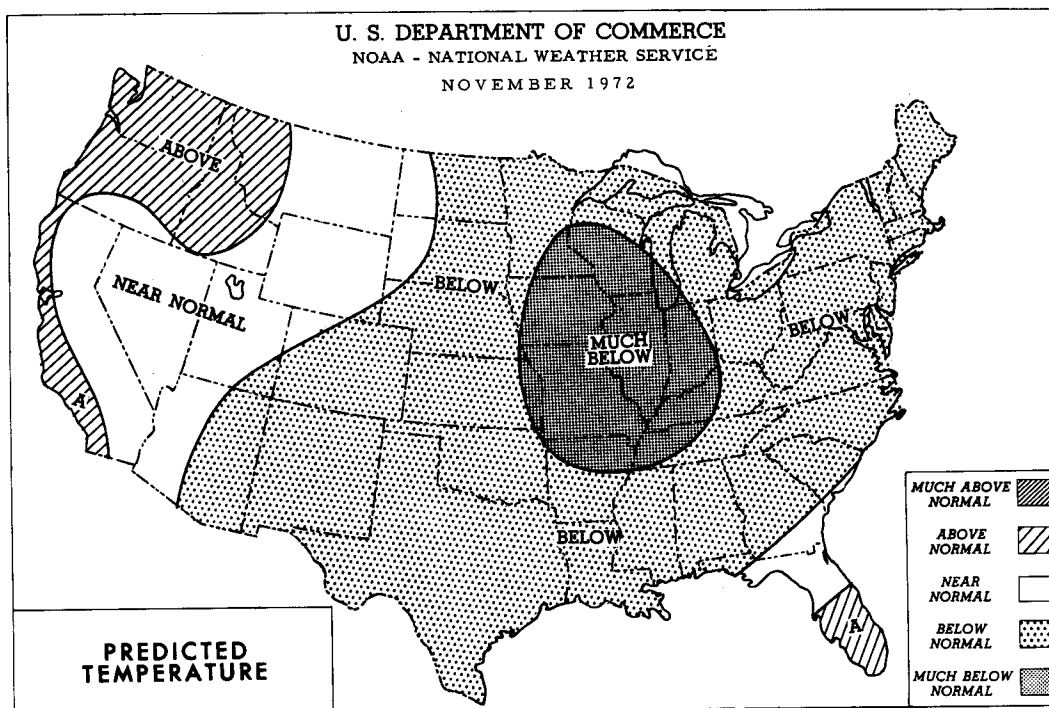
The harvesting and crushing of the 1972 Australian sugar crop has been proceeding under exceptional weather conditions. During recent weeks there has been a complete absence of interruptions due to wet weather. Fine weather throughout the growing season has also contributed to unusually high sugar contents.

On the other side of the coin, the dry weather has created some doubts about the prospects for the 1973 crop. At the end of August widespread rains were needed to keep newly-planted areas moving and to improve the moisture levels in areas prepared for planting. This need was partially met in September in some areas, but further rains are needed to assure a good sugar crop in 1973.

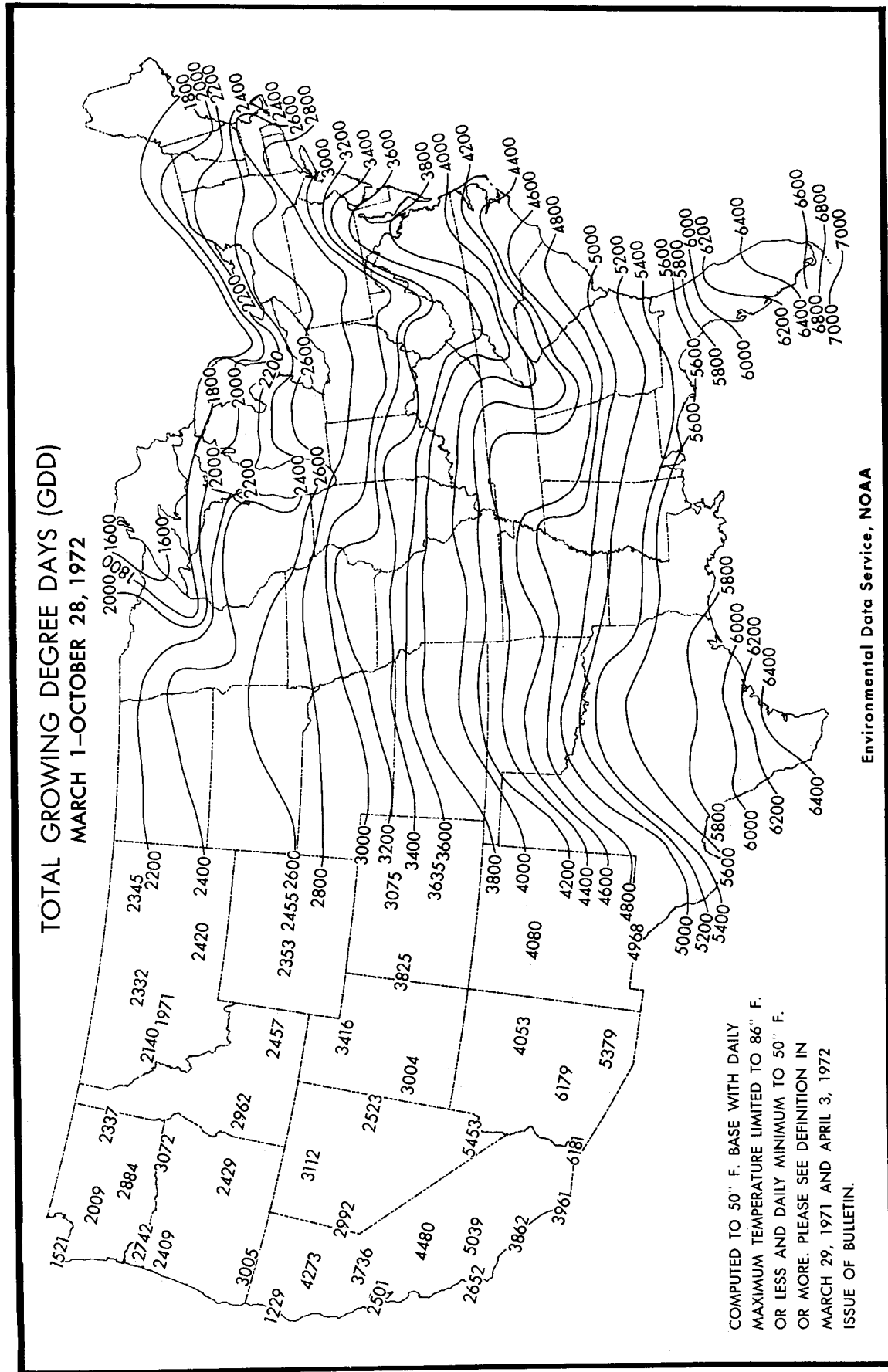
R. E. Felch

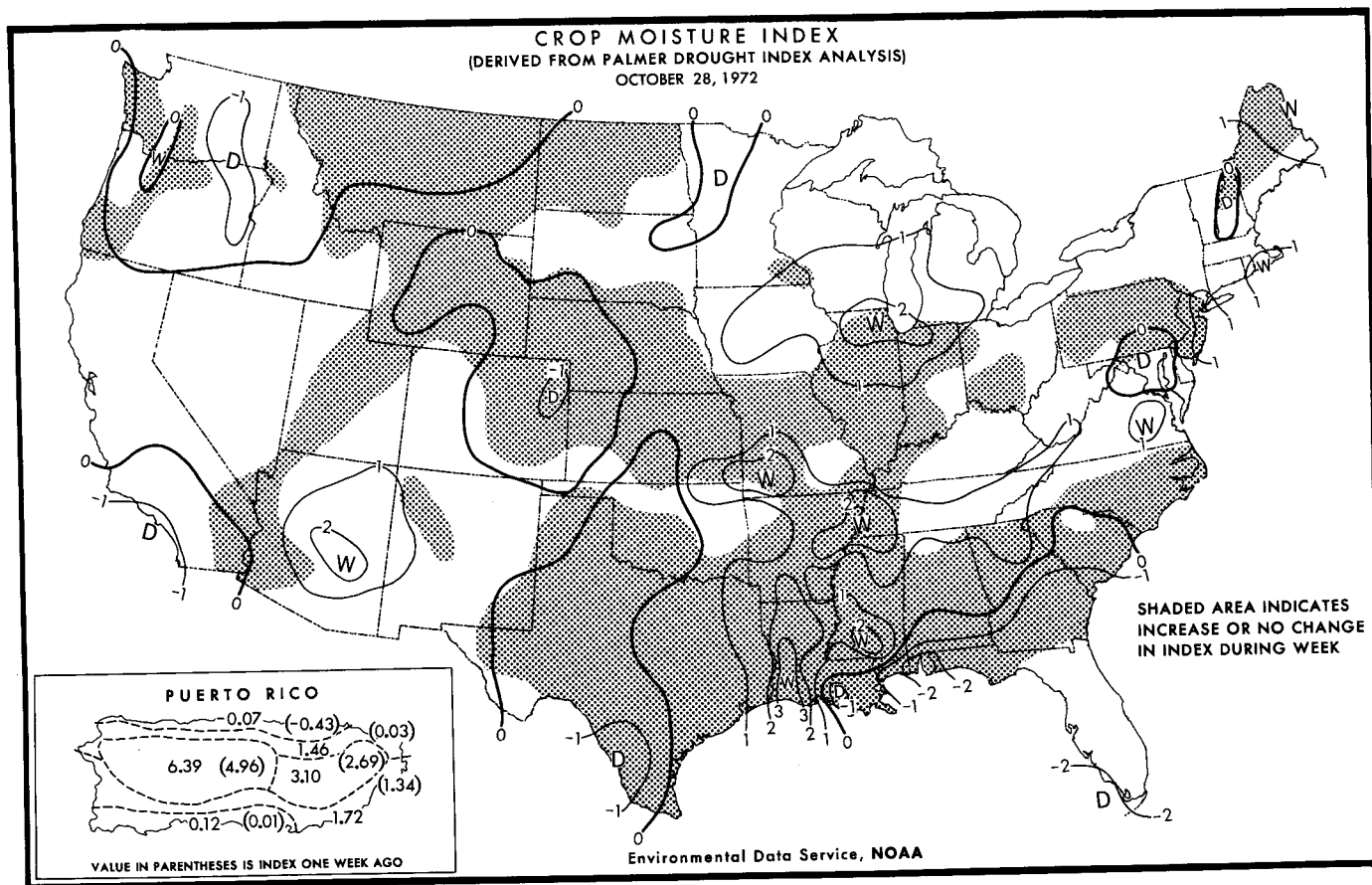


AVERAGE MONTHLY WEATHER OUTLOOK



The above prognostic charts show the expected categories of average temperature and total precipitation for the period indicated. They were extracted from the Weather Service's publication "Average Monthly Weather Outlook" which contains additional information necessary for complete interpretation.





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.

Editor's Note: The map above is the last Crop Moisture Index map to be published in 1972. We expect to resume publication of this map in the first week of April, 1973. We would like to hear from the users of this map regarding its applicability to their needs. Any comments, criticisms or suggestions for changes would be welcomed.-----L.W. Dye, Editor.



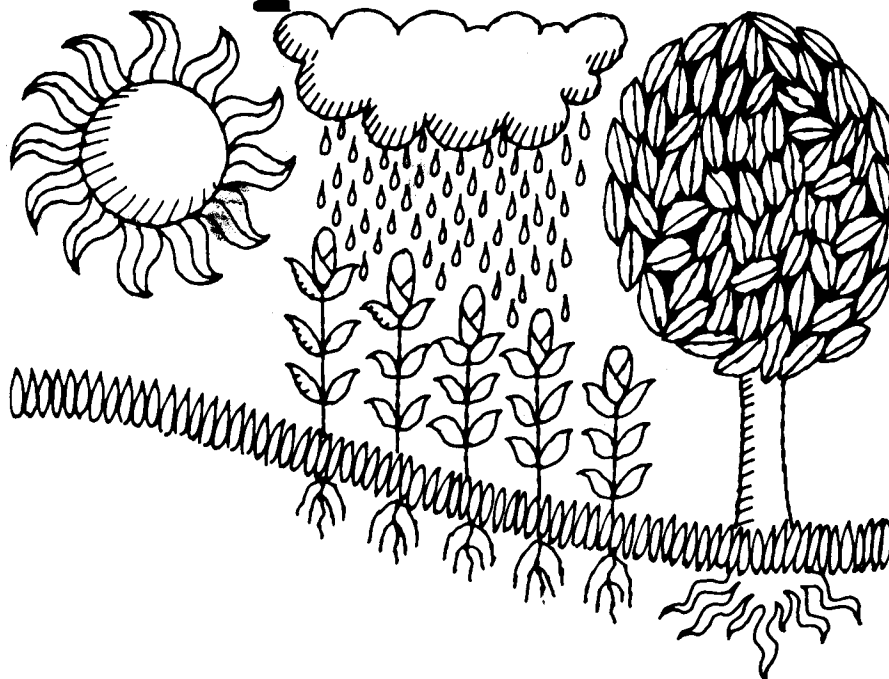
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