

Weekly Weather & Crop Bulletin

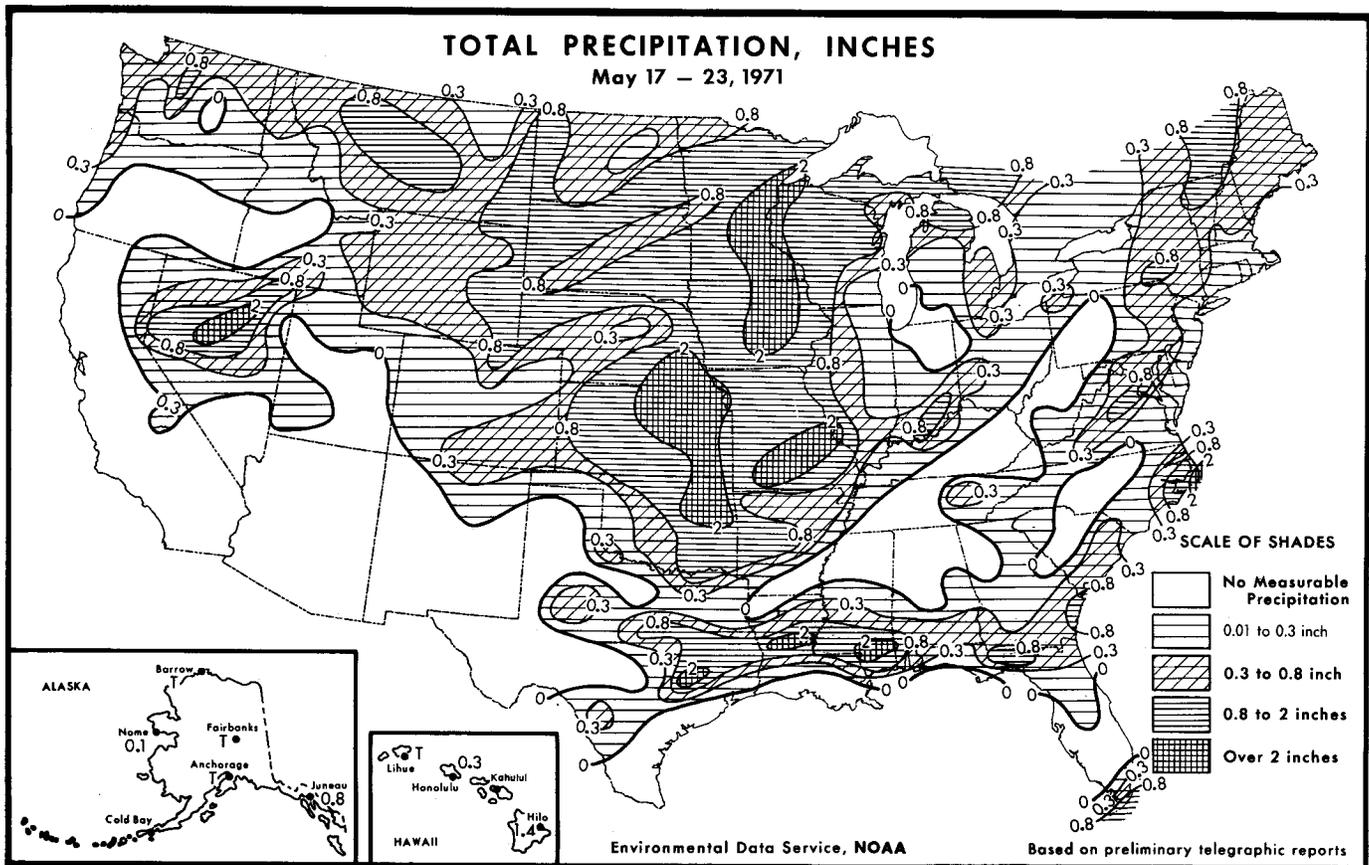
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Edited by Lucius W. Dye

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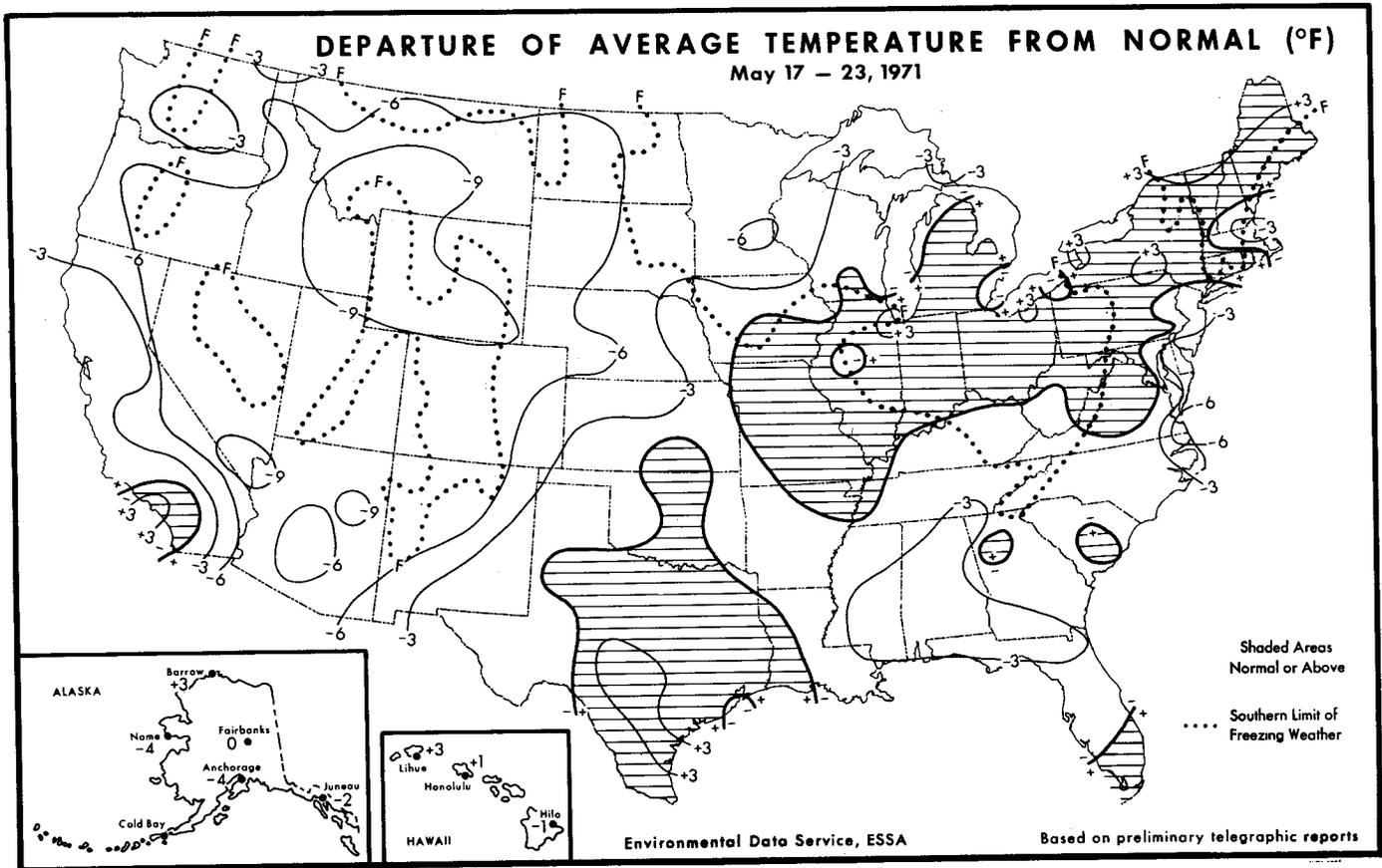
NATIONAL WEATHER SUMMARY

HIGHLIGHTS: Cool weather predominated over most of West. Severe thunderstorms occurred from the Upper Mississippi River Valley to eastern Texas. Some localities in the storm area were pelted by large hail or struck by tornadoes.

PRECIPITATION: Early in the week, moist tropical air pushed northward east of a front that stretched from the Great Lakes to the Texas Panhandle. Cool air pushed southward west of the front. Thunderstorms and tornadoes occurred along the boundary of the air masses. Tornadoes touched down in Kansas, Iowa, and Michigan. Large hail, some stones as large as tennis balls, fell in Iowa and Kansas. Heavy rains swelled the streams in Nebraska and Kansas and strong winds whipped the St. Joseph, Mo., area. The storminess decreased as the system moved eastward. By Thursday, the front lay along the Atlantic States

from New England to the Florida Panhandle, thence westward to southern Texas. Generous showers fell along the front.

As the weekend approached, another storm was getting organized in the Far West. Centered over Nevada, it spread several inches of snow at spots in the northern and central Rocky Mountains and the northern Great Plains. Alamosa, Colo., received 5 inches of snow Tuesday forenoon and 6 inches of snow fell at Hill City, Minn., Wednesday. Five inches of snow whitened the eastern slope of the Sierra Nevadas Thursday. Seven inches of snow fell at Reno, Nev., Friday. This is the greatest snowfall of record for so late in the season at Reno. High winds in the West drifted the snow badly. Where there was no snow, the winds whipped up dust or sand. As the storm crossed the Rocky Mountains and moved to the western edge of the Great Plains it produced



thunderstorms, some with large hail, heavy rain, and strong winds, and a few tornadoes. The most severe weather covered an area extending from the Upper Mississippi River Valley to central Texas.

Little or no rain fell from California to extreme western Texas. Only widely scattered light sprinkles fell from the Ohio River to the Appalachians, over the Piedmont in the Carolinas, and central Florida.

The snow that fell in the Cascades last week brought the seasonal total at Paradise Ranger Station at 5,000 feet elevation on the south side of Mt. Ranier, Wash., to 1017 inches (almost 85 feet). This is the most snow that has fallen at any station in the United States in one season.

TEMPERATURE: Mild spring weather lay over the eastern portion of the Nation early in the week with afternoon temperatures mostly in the 80's. Cedar Rapids, Iowa, registered 81° Monday afternoon when the temperature at Spencer, Iowa,

which was in the cold airmass, did not go above 69°. Winter temperatures prevailed in the West. Winnemucca, Nev., recorded 20° Tuesday morning. The temperature at Albuquerque, N. Mex., dropped to 34° Wednesday morning. This is the coldest temperature of record for so late in the season at Albuquerque. Meanwhile, recordbreaking heat covered the Northeast. The mercury reached 95° at Messina, N.Y., Wednesday afternoon. Many stations in the Atlantic Coastal States, from New York to Florida, recorded maximum temperatures in the 90's Wednesday. The highest maximums occurred in the southwestern deserts. Among these were 99° at Blythe, Calif., Wednesday, and Thermal and Imperial, also in California, Thursday.

The northern and central Great Plains experienced a cooling trend early in the week followed by warmer weather. Maximums over the Dakotas were in the 40's and 50's Tuesday but reached the upper 60's and 70's Thursday.

Temperatures averaged above normal over central and eastern Texas and from the central Great Plains to New England and below normal over most of the rest of the Nation. Some spots in the northern Rocky Mountains averaged more than 8° colder than normal.

L. W. Dye

NATIONAL AGRICULTURAL SUMMARY

AGRICULTURAL HIGHLIGHTS: * Soybean planting made rapid progress in the Corn Belt. * Warmer weather aided growth of crops in the eastern half of the Nation. * Corn planting well along in Corn Belt. * Pasture feed supplies short in southwest, drought continues.

SMALL GRAINS: Rains in the Central Great Plains provided excellent growing and filling conditions for winter wheat.

Harvest picked up in south-central Texas. The crop was headed in Oklahoma, as first fields were combined on May 20. Over three-quarters of the crop had headed in Kansas and in southern counties fields were starting to turn color. Localized hail damage occurred during the week. The crop started to head in Nebraska's southern counties.

Cool weather retarded grain growth from the Pacific Northwest to Minnesota. The crop benefited from improved moisture supplies in Washington. Spring wheat seeding in Montana reached the 95 percent mark. Rains halted planting progress of small grains at week's end in North Dakota.

Oats, wheat and barley were reaching maturity in the South. Wheat harvest was active in Florida and Mississippi. Lodging of wheat and oats was severe in Louisiana. Small grains were being troubled by armyworms in Georgia.

The wheat crop made favorable growth in the North Central States. Warmer temperatures sparked growth during the week, but development was running behind last year.

CORN: Corn Belt farmers are nearly ready to put their corn planters away for another year. Planting in the major States, except Nebraska was well past the three-quarters mark. In Iowa and Illinois, 95 percent of the crop had been planted which was considerably ahead of last year. Planting in Nebraska continued to lag as wet fields halted operations in some areas. Outside the Corn Belt, planting moved along at a good pace and neared completion as drier conditions prevailed over the Eastern portion of the Nation.

Rains in the western Corn Belt aided the germination of the crop and promoted growth of the newly emerged plants. Stands are generally good.

SOYBEANS: Soybean planting increased rapidly in the Corn Belt as farmers completed planting of intended corn acres. The pace was ahead of both last year and normal in most of the area. Illinois growers had 60 percent of their crop in the ground which compared with only 25 percent a year earlier. Stands were good to excellent.

Planting in the South moved along at a slower pace but was making progress. Some replanting was being done in Louisiana.

COTTON: Drier weather in the South allowed cotton planting to resume. Replanting was active in South Carolina and Georgia with some reseeding being undertaken in Louisiana and Arkansas.

Arkansas growers were finding seed in short supply for replanting.

Planting continues to lag behind a year ago in Texas. Only 55 percent of the crop has been planted compared with nearly 75 percent a year earlier. Thrips damaged some Arizona fields. Crop condition is fair to good although development lags. Early fields are starting to square.

OTHER CROPS: Sorghum grain planting was two-thirds complete in Texas but continued behind last year. Seeding in Oklahoma was one-quarter complete. Progress was average in Kansas where one-fifth of the crop had been planted. Kentucky tobacco planting was late as many beds showed thin stands. Setting of plants was beginning but Statewide it is 7-10 days late. Planting was 90% complete in North Carolina and plant supplies are adequate. Transplanting of burley is underway. In Tennessee transplanting was one-fifth complete. Peanut planting neared completion in Georgia and Alabama. In Idaho the potato planting is winding up. About one-half of the crop has been planted in Aroostock County, Maine. The Long Island crop in New York was doing well; planting Upstate was one-half complete. The Hastings area of Florida had heavy supplies but digging had peaked.

Fruits and Nuts: Peach harvest was underway in the southern and western regions of the Nation. Warmer weather speeded development in the northern producing areas. Hand thinning was underway in the northwest.

The citrus tree condition in Florida improved but more rain is needed. Valencia harvest is peaking in Florida, continuing in California. Citrus harvest was nearly complete in Texas.

The warmer weather east of the Plains States greatly aided development of all tree fruits.

Vegetables: Planting of vegetables for fresh market and processing continued active throughout the Nation. The crops looked good as warmer temperatures speeded growth. Supplies of vegetables were increasing in California. Harvest of many items was active in Texas. Asparagus harvest was active in New Jersey, Washington and California.

Strawberry picking remained active throughout the South and had moved as far northward as New Jersey.

PASTURES AND LIVESTOCK: Pastures showed improvement but more rain is needed in central and southern Florida. Continued drought in the Southwest has forced heavy culling of cattle as ranges continued in poor condition. Supplemental feeding as well as hauling of water for stock was necessary in the drier areas, but pastures east of the Rockies responded to warmer weather and are supplying generally good amounts of feed. Herds were moving to native grasses in Kansas.

Lambs were being marketed in the Pacific Northwest.

P. L. Doctor
Agricultural Statistician

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., May 23, 1971

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 . . .	68	- 5	T	- .8	New Orleans . . .	72	- 3	0	-1.0	OKLA,Okl. City . . .	70	0	.7	- .5
Mobile . . .	74	- 3	.5	- .6	Shreveport . . .	74	0	T	-1.1	Tulsa . . .	69	0	3.0	+1.8
Montgomery . . .	70	- 4	0	- .8	MAINE,Caribou . . .	56	+ 4	.6	- .1	OREG,Astoria . . .	50	- 4	.5	- .1
ALASKA,Anchorage . . .	43	- 4	T	- .1	Portland . . .	55	0	.2	- .6	Burns . . .	47	- 7	T	- .2
Barrow . . .	24	+ 3	T	0	MD,Baltimore . . .	63	- 3	.5	- .4	Medford . . .	53	- 5	T	- .3
Fairbanks . . .	49	- 0	T	- .2	MASS,Boston . . .	55	- 5	.3	- .4	Pendleton . . .	57	- 3	.1	- .1
Juneau . . .	45	- 2	.8	+ .1	Chatham . . .	52	- .1	.1	- .1	Portland . . .	54	- 4	.1	- .4
Nome . . .	33	- 4	.1	- .1	MICH,Alpena . . .	53	+ 1	.8	+ .2	Salem . . .	51	- 6	.1	- .4
ARIZ,Flagstaff . . .	46	- 6	0	- .1	Detroit . . .	60	- 1	1.1	+ .3	PA,Allentown . . .	60	- 2	.3	- .6
Phoenix . . .	72	- 4	0	0	Flint . . .	58	+ 1	.6	- .2	Erie . . .	57	- 1	.5	- .2
Tucson . . .	68	- 7	0	0	Grand Rapids . . .	58	0	.2	- .6	Harrisburg . . .	65	+ 1	.2	- .7
Winslow . . .	57	- 9	0	- .1	Houghton Lake . . .	56	+ 2	.2	- .5	Philadelphia . . .	64	0	.3	- .5
Yuma . . .	72	- 7	0	0	Lansing . . .	59	+ 1	.1	- .8	Pittsburgh . . .	62	+ 1	T	- .9
ARK,Fort Smith . . .	69	- 2	2.0	+ .8	Marquette . . .	50	- 1	.8	+ .1	Scranton . . .	61	0	.3	- .6
Little Rock . . .	70	- 1	1.3	+ .1	Muskegon . . .	57	0	T	- .7	R.I,Providence . . .	61	+ 2	.1	- .6
CALIF,Bakersfield . . .	69	- 2	0	0	S.Ste.Marie . . .	48	- 3	1.1	+ .4	S.C,Charleston . . .	74	0	.7	- .2
Eureka . . .	50	- 3	0	- .5	MINN,Duluth . . .	46	- 5	2.3	+1.5	Columbia . . .	74	0	0	- .8
Fresno . . .	64	- 5	0	0	Internat Falls . . .	48	- 4	1.6	+1.0	Greenville . . .	70	- 1	.1	- .6
Los Angeles . . .	68	+ 3	0	0	Minneapolis . . .	53	- 6	2.4	+1.6	S.DAK,Aberdeen . . .	56	- 3	.7	+ .2
Red Bluff . . .	67	- 2	0	- .2	Rochester . . .	54	- 4	2.6	+1.7	Huron . . .	55	- 4	1.5	+1.0
San Diego . . .	64	- 0	0	0	St. Cloud . . .	52	- 5	2.2	+1.4	Rapid City . . .	49	- 8	1.9	+1.3
San Francisco . . .	58	- 1	0	- .1	MISS,Jackson . . .	70	- 4	.6	- .3	Sioux Falls . . .	57	- 3	1.0	+ .2
Stockton . . .	67	0	0	- .1	Meridian . . .	69	- 5	.3	- .5	TENN,Chattanooga . . .	68	- 4	0	- .8
COLO,Denver . . .	51	- 7	.3	- .3	MO,Columbia . . .	66	0	1.0	- .1	Knoxville . . .	68	- 1	T	- .8
Grand Junction . . .	55	- 8	.1	0	Kansas City . . .	68	+ 1	1.5	+ .5	Memphis . . .	71	0	0	-1.0
Pueblo . . .	55	- 7	.4	0	St. Louis . . .	66	0	2.3	+1.5	Nashville . . .	68	- 2	T	- .8
CONN,Bridgeport . . .	60	0	T	- .9	Springfield . . .	66	0	3.4	+2.2	TEX,Abilene . . .	75	+ 2	.1	- .9
Hartford . . .	63	+ 3	.1	- .7	MONT,Billings . . .	47	-11	.8	+ .3	Amarillo . . .	67	- 1	T	- .8
D.C.Washington . . .	67	0	.9	- .1	Glasgow . . .	50	- 6	.2	- .2	Austin . . .	79	+ 3	T	- .8
FLA,Apalachicola . . .	75	- 1	0	- .6	Great Falls . . .	47	- 7	1.3	+ .8	Beaumont . . .	77	+ 1	T	-1.1
Ft. Myers . . .	79	+ 1	0	- .9	Hayre . . .	49	- 7	.4	0	Brownsville . . .	82	+ 2	T	- .7
Jacksonville . . .	74	- 3	.5	- .3	Helena . . .	44	-10	.8	+ .4	Corpus Christi . . .	82	+ 4	T	- .8
Key West . . .	81	+ 1	1.7	+1.1	Kalispell . . .	48	- 5	.8	+ .4	Dallas . . .	76	+ 2	T	-1.2
Lakeland . . .	77	0	0	- .9	Miles City . . .	50	- 8	.4	0	Del Rio . . .	80	0	.1	- .6
Miami . . .	79	+ 1	.4	-1.1	Missoula . . .	47	- 6	.2	- .3	El Paso . . .	72	- 1	0	- .1
Orlando . . .	79	0	.1	- .8	NEBR,Grand Island . . .	58	- 4	1.0	0	Fort Worth . . .	74	0	T	-1.0
Tallahassee . . .	71	- 5	1.5	+ .6	Lincoln . . .	61	- 3	2.2	+1.4	Galveston . . .	76	- 1	0	- .7
Tampa . . .	77	- 1	0	- .6	Norfolk . . .	59	- 2	.4	- .5	Houston . . .	77	+ 1	T	-1.0
GA,Atlanta . . .	71	+ 1	T	- .7	North Platte . . .	53	- 7	.7	0	Lubbock . . .	71	+ 2	0	- .9
Augusta . . .	71	- 2	T	- .7	Omaha . . .	60	- 2	1.6	+ .9	Midland . . .	74	- 1	T	- .5
Macon . . .	74	- 1	.1	- .6	Valentine . . .	53	- 5	1.2	+ .6	San Angelo . . .	78	+ 3	0	- .7
Savannah . . .	75	0	1.0	+ .2	NEV,Ely . . .	43	- 8	.4	+ .2	San Antonio . . .	81	+ 5	T	- .8
HAWAII,Hilo . . .	73	- 1	1.4	- .5	Las Vegas . . .	65	-10	0	0	Victoria . . .	79	+ 2	T	-1.0
Honolulu . . .	77	+ 1	.3	+ .1	Reno . . .	48	- 7	.9	+ .7	Waco . . .	77	+ 2	.4	- .6
Kahului . . .	--	--	--	--	Winnemucca . . .	47	- 7	.8	+ .6	Wichita Falls . . .	74	+ 1	T	-1.1
Lihue . . .	78	+ 3	T	- .6	N.H,Concord . . .	58	+ 1	.4	- .3	UTAH,Blanding . . .	50	- 8	0	- .1
IDAHO,Boise . . .	52	- 7	T	- .3	N.J,Atlantic City . . .	59	- 4	1.2	- .7	Salt Lake City . . .	52	- 8	.2	- .1
Lewiston . . .	54	- 5	.2	- .2	Trenton . . .	62	- 2	.2	- .6	VT,Burlington . . .	59	+ 3	.9	+ .2
Pocatello . . .	46	-10	.2	0	N.MEX,Albuquerque . . .	59	- 7	0	- .2	VA,Lynchburg . . .	67	0	.4	- .3
ILL,Cairo . . .	70	0	.3	- .7	Roswell . . .	68	- 1	0	- .3	Norfolk . . .	63	- 6	.2	- .6
Chicago . . .	64	+ 3	T	- .9	N.Y.Albany . . .	60	0	.6	- .2	Richmond . . .	66	- 2	.1	- .8
Moline . . .	62	0	1.0	+ .1	Binghamton . . .	61	+ 5	1.5	+ .7	Roanoke . . .	67	0	.4	- .5
Peoria . . .	62	- 1	.5	- .5	Buffalo . . .	60	+ 3	T	- .7	WASH,Colville . . .	53	- 3	.7	+ .3
Rockford . . .	62	+ 1	.2	- .7	New York . . .	62	- 2	.1	- .7	Omak . . .	55	- 5	.4	+ .2
Springfield . . .	65	0	.7	- .2	Rochester . . .	60	+ 2	T	- .6	Quillayute . . .	49	- 4	.5	- .5
IND,Evansville . . .	68	0	.1	- .9	Syracuse . . .	61	+ 2	.3	- .4	Seattle-Tacoma . . .	52	- 4	.3	- .1
Fort Wayne . . .	62	0	0	- .8	N.C,Asheville . . .	64	- 2	.1	- .6	Spokane . . .	51	- 6	.5	+ .2
Indianapolis . . .	63	0	T	- .9	Charlotte . . .	69	- 1	0	- .7	Walla Walla . . .	57	- 4	.1	- .3
South Bend . . .	61	+ 1	T	- .9	Greensboro . . .	66	- 2	0	- .8	Yakima . . .	58	- 2	T	- .1
IOWA,Burlington . . .	63	0	1.2	+ .3	Hatteras . . .	65	- 4	2.5	+1.6	W.VA,Beckley . . .	62	0	T	- .9
Des Moines . . .	63	+ 1	2.2	+1.2	Raleigh . . .	68	- 1	T	- .8	Charleston . . .	65	- 1	.1	- .7
Dubuque . . .	58	- 2	1.6	+ .6	Wilmington . . .	71	- 1	.2	- .7	Huntington . . .	66	0	T	- .9
Sioux City . . .	62	- 1	1.2	+ .4	N.DAK,Bismarck . . .	50	- 7	.3	- .2	Parkersburg . . .	66	+ 1	0	- .9
KANS,Concordia . . .	59	- 5	3.8	+2.9	Fargo . . .	54	- 3	1.7	+1.2	WIS,Green Bay . . .	55	- 1	1.1	+ .4
Dodge City . . .	64	- 1	1.2	+ .5	Williston . . .	49	- 7	1.7	+1.4	La Crosse . . .	56	- 5	2.6	+1.7
Goodland . . .	56	- 4	.8	+ .2	OHIO,Akron-Canton . . .	62	+ 1	.1	- .8	Madison . . .	60	+ 2	.2	- .6
Topeka . . .	65	- 1	2.2	+1.2	Cincinnati . . .	67	+ 1	.1	- .7	Milwaukee . . .	54	- 1	.1	- .6
Wichita . . .	68	+ 1	1.9	+1.0	Cleveland . . .	62	+ 3	.2	- .6	WYO,Casper . . .	45	- 9	.9	+ .5
KY,Lexington . . .	65	- 1	T	- .9	Columbus . . .	63	0	T	- .9	Cheyenne . . .	45	- 9	.7	+ .1
Louisville . . .	66	0	.5	- .4	Dayton . . .	64	+ 1	.6	- .3	Lander . . .	44	-10	.6	0
LA,Baton Rouge . . .	74	- 2	T	- .7	Toledo . . .	60	0	.4	- .3	Sheridan . . .	47	- 7	.7	+ .1
Lake Charles . . .	77	+ 1	0	-1.0	Youngstown . . .	60	+ 1	T	-1.0	P.R. San Juan . . .	81	+ 2	1.9	+ .4

* 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: Scattered showers south and central portions Thursday, otherwise mostly fair with warm sunny days and mild nights. Temperatures for week averaged near normal. Rainfall light to moderate south and central portions and little or none elsewhere. Open weather enabled farmers to make good progress with fieldwork. Warm weather needed for crops to reach full potential. Cotton 93% planted, 98% last year. Corn 90% planted, slightly less than year ago. Peanuts 91% planted, 98% last year. Small grains doing well, combining limited southern counties. Harvest late spring Irish potatoes full swing. Vegetable crops satisfactory. Livestock good. Pastures supplying excellent grazing most areas.

ALASKA: Temperatures continued cold with below freezing readings in all areas early in week. Coldest was 25° at Homer, ranging to a warmest of 65° at Fairbanks. Coastal and near coastal areas of the Kenai Peninsula reported heavy rain. Other areas received little or none. Still snow on ground at higher elevations of Kenai Peninsula. Some ice still remaining on many lakes. Several days of strong winds helped dry fields for planting. Potato planting in Tanana Valley expected to begin last week of May. Several acres of crops have been planted in the Matanuska Valley. Higher elevations of Kenai Peninsula still snowcovered, no field work expected before June 1. Grass growth slow in all areas due cool temperatures. Some cattle moved to summer range on Kenai Peninsula.

ARIZONA: Mostly clear and temperatures below normal over State this week. No measurable precipitation but strong winds and blowing dust occurred in agricultural sections during week. Cotton fair to good, behind normal. Number fields squaring central, southwest areas. Thrips causing damage some fields. Small grain harvest gathering momentum southwest. Few barley fields being harvested central areas, lodging serious some fields. Sorghum generally good. Aphids a problem, some fields treated. Safflower now flowering. Harvesting sugar beets central. Alfalfa hay harvest active all areas, good yields and quality. Lettuce harvest nearing completion, central, limited quantities Red Rock Marana, cutting started last week Willcox. Yuma cantaloupe harvest underway this week, few fields being treated for aphids. Central Arizona melons fair. Harvest Valencia oranges, white grapefruit continues Salt River Valley. Yuma grapefruit harvest continues limited. Citrus groves generally good all areas. Ranges continue poor to fair, extensive supplemental feeding, pumping and hauling of stock water. Heavier than normal cattle culling.

ARKANSAS: Weekly temperatures near normal ranging from upper 60's north to low 70's south. Daily extremes: 40° to 89°. Dry week except showers weekend, heaviest northwest. Harrison high with 2.95 inches. Well under 1.00 inch extreme east and south. Good progress fieldwork and planting. Soil moisture short north-central, southwest, mostly adequate elsewhere. Cotton 88% planted, 62% up to stand. Cool nights hurting young seedlings. Considerable replanting to obtain stands. Seed shortage for replanting.

Rice fair to good. Some replanted, growth slowed. Fertilizer and herbicides being applied. First flooding of early fields. Soybean planting full swing, 1/3 seeded. Early plantings up to stand. First alfalfa hay cutting complete. Grass hay underway. Wheat and oats ripening. Grain hay started. Apple and peach prospects very good. Tomato fruiting well. Strawberry harvest full swing, quality good. Vegetable crop good. Pastures good, grazing ample.

CALIFORNIA: Very strong winds and much cooler Thursday and Friday. Average temperatures 2° to 8° below normal except in the Los Angeles Basin. Rain on north coast Monday and showers in Sierras and Cascades on Friday with light snow above about 4,000 feet. Harvesting barley and wheat desert, starting San Joaquin Valley. Grain hay cutting continues. Alfalfa first cut complete Sacramento Valley; second cutting San Joaquin, third cutting desert. New sugar beets being dug desert, some old crop digging Sacramento Valley. Corn looks good. Rice levees damaged by winds Sacramento Valley; some planting remains San Joaquin Valley. Milo and dry bean planting continues. Strong winds caused scattered damage deciduous fruit crops. Picking Perlette grapes started. Harvest Tartarians, cherries increasing; bings still week off. Thinning apples continues; mildew problems. Thinning peaches continues; harvest early freestones started Kern County. Valencia picking continues; quality fair to good, some lots showing frost damage. Grapefruit and lemon harvest continues. Wind drying valley ranges. Livestock moving mountain ranges and feedlots. Egg quality up; culling old birds. Asparagus Delta, mostly to processors. Movement of broccoli and cauliflower increasing Salinas Valley. Cantaloupe harvest underway Imperial Valley. Carrot harvest Salinas Valley underway. Celery harvest underway Oceano-Guadalupe district. Salinas lettuce shipment increasing. Stockton yellow onion harvest underway; limited quantity of reds. Kern district potato digging lighter due cool weather. Strawberry harvest continues active; some berries diverted processors. Imperial Valley tomatoes increasing. First shipment watermelons from Imperial Valley May 18.

COLORADO: Warm days alternated with unusual cold for so late in the season. General moderate to heavy precipitation except dry central, west, and southwest. Heavy thunderstorm activity eastern plains, severe hail some localities. Totals 0.50 to over 1.00 inch central and southern plains. Moderate to heavy snow in mountains. Wet soils early week limited fieldwork, activities increased weekend as soils dried. Cool temperatures slowed seed germination. Minor damage to crops by light freeze. Surface soil moisture adequate except extreme south-central. Small grains good to excellent. Winter wheat 92% jointed, 27% headed. Winter barley 80% jointed, 33% headed. Spring barley and oats 88% emerged. Row crops good to excellent. Sugar beet seeding nearing completion, 72% emerged. Corn 74% planted, 33% up to stand. Sorghum 25% seeded, 12% emerged. Dry bean seeding underway. Potato planting approaching end, 58% emerged. Cutting alfalfa underway for dehydration, insect activities light. Ranges and pastures improving. Livestock condition good.

FLORIDA: Little or no precipitation this week brought renewal of drought conditions. Widely scattered showers brought locally heavy rainfall to portions of north and central Florida Thursday and Friday and to Miami area Saturday. However, showers confined only to very small areas. Temperatures averaged near normal central and southern sections and slightly below normal northern sections. Considerable sunshine. Field crop condition generally good. Harvest of oats begun; wheat active in a week and shade tobacco underway. Planting soybeans continues. Pastures improved but rain needed in central and south. Livestock fair, some good. Citrus trees improving. Surface moisture fair to good. More rain needed. New crop fruit progressing. Old crop Valencias at peak maturity. Vegetable shipments continue to increase. Harvest cucumbers, peppers, tomatoes increasing central northward. Hastings potatoes in heavy supply but may decline from last week's peak. Lower east coast has completed harvest except eggplant. Supplies from Fort Myers, Immokalee experiencing rapid decline. Sweet corn in full volume from Everglades. Other commodities from area declining. Harvest of melons primarily from south central.

GEORGIA: Light to locally moderate rain in south and central areas Thursday and Thursday night. Amounts generally less than 0.50 inch but thunderstorms brought more than 1.00 inch to a few places. Very little rain occurred in north. Temperatures continued seasonally mild for 4th consecutive week. Highs mostly in 80's with only a few low 90's in south. Lows were in 50's and low 60's except in mountains where 2 or 3 mornings had temperatures in 40's. Averages ranged from normal to 3° below normal. Soil moisture mostly adequate statewide. Cotton 95% planted, 62% up with replanting active. Corn 96% planted. No blight reported, condition fair to good. Peanuts 97% planted and condition improved. Soybeans 1/3 planted. Small grain prospects good, but army worms troublesome. Tobacco remained fair to good. Peach harvest began southernmost areas with small volume June Golds. Cattle and pastures mostly good. Snap beans, cabbage and squash moving in volume from south.

HAWAII: Scattered showers many areas. Soil moisture in dry areas maintained with irrigation. Pineapple harvest increasing seasonally. Papaya supplies increasing with diseases under control. Banana supply light. Vegetables in good supply. Cattle in good condition. Forage supply adequate.

IDAHO: Sharp drops in temperatures on 1st and 2d days of week lowered daily maximums 15° to 28° and average for week 7° to 12° below normal. Fairfield, Camas County, recorded 23° on 19th for coldest spot in agricultural areas; this was within 3° of their May record. Precipitation was heavy north where totals ranged to 1.90 inches at Orofino on Lower Clearwater River. Precipitation was light and scattered southwest and south-central and mostly light to moderate east. Montpelier recorded 0.89 inch for heaviest exception. Heavy snow in southern border counties. Three Creek, southeast Owyhee County, recorded 10 inches on the 21st for 2d greatest in a single day since 1940. Cold winds retarded crop growth. Very limited frost damage to fruit. Soil moisture short south-central and southwest except under irrigation. Range condition excellent. First cutting alfalfa starting. Potato planting in windup. Emerged crops in good condition.

ILLINOIS: Rain totals mostly less than 0.25 inch northeast and southeast and 0.50 to 1.00 inch elsewhere except 1.00 to 3.00 inches along western border. Temperature averaged near normal. Corn planting 95% complete, 65% last year. Crop good to excellent much of State. Cool, dry weather slowing growth slightly. Soybean planting 60% complete, 25% last year. East district most advanced, 80% complete. Crop good to excellent. Wheat 60% headed, 20% filled. Oats 5% headed. Both crops good. Height short due to dry weather. Alfalfa hay 10% cut. Red clover harvest started. Both good to excellent. Growth short due dry weather. Pastures good to excellent with 85% livestock roughage requirement met. Pasture growth short some areas. Soil moisture 50% short, 49% adequate, 1% surplus. Main activities planting corn and soybean cultivating.

INDIANA: Sunny warm pleasant week. General rain of 0.10 to 0.30 inch Sunday night. Air temperatures ranged from high 30's on 22d to 80's on 17th. Solar radiation and evaporation summer like, also low humidities. Soil temperatures in 60's except near Lake Michigan and near normal. Driest in northwest last 4 weeks. Near normal precipitation in southeast. Six days suitable for fieldwork. Topsoil and subsoil moisture both short to mostly adequate. Fieldwork 5 days ahead of normal. Corn 80% planted, 45% average. Corn 50% emerged, stands good. Corn 2 inches tall, about usual. Soybeans 30% planted, 20% average. Soybeans 5% emerged, stands fair to mostly good. Wheat 30%, oats 5% headed. Alfalfa hay 10% first cut. Pastures fair to good.

IOWA: A cool, cloudy, wet week. Near normal temperatures southwest to 4° subnormal northeast. Particularly heavy showers over northern half of State from southwest to northeast. Moderate showers northwest and southeast. Welcome rains this past week improved crops, pastures, and soil moisture conditions. Corn planting over 95% complete, equal to last year, 5-year average over 80%. Acreage 55% emerged with 16% excellent condition, 71% good condition and 13% fair. Stands emerged corn about normal. Weeds coming, but presenting little problem to date. Soybean planting made rapid progress, 55% acreage planted. Last year near 60%, 5-year average less than 45%. Condition oats, hay crop and pasture mostly good to fair. Some excellent. Over 4 days suitable fieldwork. Topsoil 10% short, 78% adequate and 12% surplus. Week ago 44% short, 54% adequate and 2% surplus. Last year mostly adequate.

KANSAS: Moderate to heavy rains north and east, light to moderate southwest. Local torrential rains over 5.00 inches central and north-central. Considerable flooding along streams those areas. Hail and strong winds caused local damage northern and eastern portions. Weekly mean temperatures averaged below normal northwest and north-central, near normal elsewhere. No freezing weather. Excellent growing and filling conditions for wheat provided by rains. Wheat 77% headed, 79% year ago and 10-year average. Few wheat fields south turning color, scattered, local hail damage. Some southern counties need moisture. Sorghum 20% planted, 26% last year, average 21%. Corn planting 83%, 88% last year, average 73%. Soybean 20% planted, 23% last year, 27% average. Alfalfa 23% harvested, 34% last year, weevils bothering locally. Some hay rain damaged. Strawberry picking begun in south. Additional cattle moved to native grasses. Grass improved by rain but

pasture feed short some southern counties. Marketing spring lambs continued.

KENTUCKY: Driest week in about 6 months, most locations having less than 0.10 inch of rainfall. Mostly sunny until cloudy last 2 days. Warm first 3 days, afternoon temperatures in 80's; cooler balance averaging about seasonal. Local minor wind damage north-central on 19th. Soil moisture adequate. Favorable week for fieldwork. Corn 84% planted, last year 70%, 1969, 77%. Growers concerned over poor corn stands, lack of uniformity and insect damage from flea beetles, cutworms, and army worms. Some replanting necessary. Soybeans 24% planted; last year, 19%. Tobacco plants late, many beds have thin stands. Setting beginning western areas, Statewide 7 to 10 days later than normal. Wheat and barley prospects good. Pastures good to excellent.

LOUISIANA: Dry week most areas. Scattered thundershowers Wednesday and Thursday; moderate to heavy rainfall amounts central sections. Little rain northwest and southeast. Greatest 2.50 inches Alexandria 7 a.m. May 20. Temperatures averaged near normal northwest, 1° to 4° below normal other areas. Warming trend to midweek, cooler, then warming again weekend. Temperature extremes: 90° De Quincy Wednesday, 49° Cotton Valley last Monday. Fieldwork active by midweek. Planting cotton, soybeans, sweetpotatoes resumed; some replanting cotton and soybeans. Planting cotton 85% complete, soybeans 30%, and sweetpotatoes 30%; all somewhat behind year ago. Cultivation of cotton, sugarcane and corn active. Rice being flooded and topped. Crop growth continued slow because of cool weather. Soil moisture generally adequate but getting short in southeast and south-central. Wheat and oats maturing, some lodged from wind and rain. Peach and pecan crop prospects good. Haying active. Pasture feed improved, now about average. Livestock condition good.

MARYLAND AND DELAWARE: Temperatures, cool last 3 days, averaged near normal to 3° below normal. Extremes: upper 80's and low 90's, upper 30's to upper 40's. Weekly rainfall 0.50 to 1.75 inches except less than 0.25 inch in Garrett County. All-day rains on 16th, last day of previous week, heavy totaling 1.00 to 4.00 inches except 0.25 inch in Garrett County. Fieldwork slowed by wet fields. Topsoil moisture adequate to surplus. Corn planting 88% complete, last year 70% and average 78%. Soybean planting 23%, last year 16%. Tobacco transplanting started. Barley nearly all headed, wheat 30%. First cutting alfalfa harvest started. Strawberry harvest underway Southern Shore.

MICHIGAN: In western Upper Peninsula, temperatures averaged 4° below normal while in the Thumb area they averaged 4° to 6° above normal. The remainder of State averaged close to normal. It was mild early in week but quite cool as week ended. Some minimum temperatures in the upper 20's Saturday morning. The Upper Peninsula and the extreme northern portion of Lower Michigan received from 1.00 to 2.00 inches of rain. The extreme eastern portion of Lower Michigan received from 0.75 to 1.00 inch. Elsewhere, amounts were generally less than 0.50 inch, and moisture continues in short supply in those areas. Dry soils retarded germination and growth of crops in most of Lower Peninsula. Crop growth stimulated by rain in Upper Peninsula and northern Lower Peninsula. State averaged 5.5 days suitable for fieldwork. Over 90% acreage plowed for spring-

planted crops. Corn 87%, fall potatoes 68%, soy beans 34% planted. Dry bean planting started. Alfalfa, wheat, pasture and spring-planted crop growth retarded by dry soils. Pastures supplying less than average amounts feed. Tree fruits petal-fall stage southwest. In northwest, sweet cherries full bloom, tart cherries partial bloom, apples pink stage. Asparagus 15% harvested.

MINNESOTA: Cloudy and rainy first and latter part of week. Temperatures averaged 4° below normal. Extremes: 88°, 26°. Some light frost in southern part of State, generally on 20th while northern part had frost on several days. The heaviest precipitation since last fall. Rainfall averaged about 1.50 inches across State. Late spring snowfall of 4 to 6 inches on a narrow band from Brainerd northeast through Grand Rapids late on 19th and into the 20th. Corn and soybean planting well ahead normal. Small grain planting virtually completed all areas. Percent flax seeded: 78, normal 57. Small grains emerging: spring wheat 81%, normal 51%; oats 85%, normal 66%; barley 72%, normal 47%; flax 52%, normal 35%. Corn 88% planted, normal 72%. Soybeans planted 47%, normal 36%. Planting peas, sweet corn, sugar beets, potatoes well ahead of normal. Topsoil moisture generally adequate. Rye, hay fields, and pasture fair to good. Winter wheat fair.

MISSISSIPPI: Third week with average temperatures below normal, most stations were 3° to 7° below normal. Little if any precipitation in northern Mississippi, generally 0.50 inch or more in southern half except near Gulf. Most stations reported 1 day with rain. Weekend mostly sunny and warm. Soil moisture adequate to surplus central and southwest, other areas mostly adequate. Average 4 1/2 days suitable fieldwork. Winter wheat 15%, oats 17% ripe. Wheat 1%, oats 4% harvested. Corn 74%, cotton 70%, soybeans 22%, sorghum 45%, sweetpotatoes 45% planted. Cotton 43%, corn 69%, soybeans 19% up to stand. Cotton poor to fair condition. Corn, soybeans and truck crops mostly fair to good. Hay crops, Irish potatoes, peaches, pastures and livestock fair to mostly good.

MISSOURI: Temperatures averaged near normal with warm days and cool nights. Heavy rains fell midweek and over weekend with many stations receiving from 1.00 to 3.00 inches. Farmers worked 5 days of week in field. Corn 93% planted. Soybean planting 52% complete. Cotton planting 95% complete. Grain sorghums 57% in. Winter wheat 75% headed. First cutting alfalfa hay 33% complete. Reports showed 35% State's alfalfa damaged by alfalfa weevil, with most damage southern part. Pastures fair to good condition. Soil moisture adequate.

MONTANA: Cold and wet, except little rainfall along western border. Broadus totaled 2.01 inches, and much of the moisture southwestern mountains came as snow midweek. Temperatures as much as 10° below normal for week Yellowstone and Upper Missouri Drainages. Freezing at least 1 morning most stations. Topsoil moisture adequate, except northeast and locally southwest. Winter wheat and spring grains generally good. Spring wheat 95% planted. Barley and oats 90% seeded. Potatoes and flaxseed 55% planted. Corn and dry beans 65% seeded. Seventy percent range cattle and sheep moved to summer ranges. Calving and lambing 95% finished. Shearing 90% complete.

NEBRASKA: Cold and wet. Local downpours of 3.00

to 5.00 inches in eastern Nebraska with some wind and hail damage. Row crop planting progressed well some areas, while wet conditions halted field operations scattered locations. Corn planting 70% complete, 87% normal. Many fields emerging to good stands, but few growers breaking crusted soils to improve stands. Cutworm activity noted local areas. Sorghum planting 25% complete; 55% normal. About 15% soybeans in the ground, 56% normal. Sugar beet thinning underway and potato planting about half complete. Wheat good to excellent condition, with heading occurring southern counties. Alfalfa being cut for hay and dehydration. Livestock condition good with pastures providing adequate feed.

NEVADA: A cool wet week. Temperatures at all stations below normal averaging 8° below normal in north to about 7° to 10° below normal in south. A sudden wet snowstorm Thursday dropped from 1 inch of snow at Sheldon to 15 inches at Austin. Precipitation average about 0.10 inch south-central to 0.60 inch in northwest to about 1.00 inch in northeast. None in extreme south. Snowstorms last week were more advantageous than destructive for Nevada's agriculture. Storms provided uniform irrigation and soaked ranges. Newborn calves and lambs encountered only minor problems with snow. Planting spring crops complete except in northern, eastern, and central high valleys. Livestock good condition with normal death loss. Ranges northern Nevada good, more moisture needed southern ranges. Movement to spring ranges behind previous years.

NEW ENGLAND: Sunny and hot in west and north but moderate to cool with persistent fog near the coast until generally cooler over weekend. Local freezing in more susceptible places morning of 23d and more common on 24th when some minima were in high 20's. New England's first day with 80° or higher this season on May 19, but only in Vermont. Week averaged near normal except up to 3° to 5° above normal in extreme north and similarly below normal locally in coastal Massachusetts. Rain mostly on May 21 to 22, with totals varying from almost nothing to 1.00 inch. Totals of 0.50 inch or more mostly in Vermont and eastern Maine. Sunny, warm weather dried soggy fields, permitted rapid planting potatoes, silage corn, oats and vegetables. Pastures growing well and most cattle turned out. Season still week or more late. Heavy apple bloom with good pollination weather. Shade tobacco setting started. Potatoes nearly 50% planted Aroostook, Maine.

NEW JERSEY: Another cool week with temperatures averaging from 1° to 5° below normal. Extremes ranged from the low 90's on the 19th to mid-30's on 23d and 24th. Rainfall varied from less than 0.10 inch to nearly 0.60 inch with most areas of State averaging 0.30 inch. Conditions generally good for crop development. Most crops remain several days late. Volumes of asparagus, spinach, Boston and Romaine lettuce, greens continue to market. Limited harvest iceberg lettuce started. Planting sweet corn and tomatoes active. Sweet-potato transplanting begun. Apple and peach sets heavy. Strawberry harvest expected by weekend. Field crops are good condition. Hay cutting started.

NEW MEXICO: Light showers northeast Tuesday. Dry elsewhere. Temperatures averaged much below normal in west and central and slightly above normal in eastern plains. Cooling to Wednesday with freezing temperatures mountain areas. Warmest

Friday with cooling on weekend. Severe drought continues. Topsoil moisture very short, subsoil moisture short to very short. Dryland wheat extremely poor condition. Irrigated wheat and barley fair. Cotton up to stand and good. First cutting alfalfa progressing well south. Spring lettuce harvest progressing well. Onions good, harvest expected early June. Ranges poor. Livestock fair.

NEW YORK: Warm week except in southeast. Maximums mid-80's to low 90's on 18th and 19th except 75° to 80° on Long Island. Much cooler by 22d all sections. Dry week western 1/3 and southeast with weekly precipitation totals 0.10 inch or less. Showers on 20th and 21st with locally severe thunderstorms and hail south-central and very heavy rain in eastern Adirondacks where 2.60 inches at Lake Placid. Midweek storm totals elsewhere mostly 0.70 to 1.20 inches south-central and northern valleys down to 0.20 to 0.60 inch east-central. Field activity increased rapidly, the best working week of the season. Oats 75% planted, early plantings up. Corn planting continued, 40% complete south and central, 25% north. Hay good as hot, moist weather promoted growth. Wheat fair, growing rapidly. Upstate potato planting halfway mark, Long Island potatoes growing well. Sweet corn planting in Hudson Valley about half completed and well underway in west. Planting market cabbage underway in west. Fruit development rapid during week. Apples full bloom Hudson Valley, weather favorable for pollination. Western apples in full bloom except for some late varieties and areas near Lake. Peaches and pears full bloom, some petal fall in peaches. Tart cherries in full bloom except near Lake. Bloom heavy and pollination good.

NORTH CAROLINA: Temperatures averaged near or slightly below normal with highs mostly 80's and lows mostly 50's. Heavy rains central coast 21st. Otherwise mostly fair weather except scattered showers mainly mountains. Good outdoor weather most of period. Soil moisture diminished slightly across the State, continued mostly adequate. In some areas rains prevented fieldwork. Crop plantings accelerated. Corn over 95% complete, cotton 95% tobacco 90%, peanuts 75% and soybeans 35%. Tobacco plant supplies continued adequate. Transplanting of Burley underway. Harvest of strawberries peaking. Condition of pastures and truck crops improved.

NORTH DAKOTA: Moderate to heavy rain during weekend over east and north. Amounts in excess of 1.50 inches in northwest corner and most of southeast and extreme east. Several reports of 2.00 to 3.50 inches in parts of southeast and east-central where State was driest. Temperatures averaged 4° to 8° below normal. Planting progress satisfactory weekend. Rains brought fieldwork to standstill. Topsoil moisture supplies replenished, little runoff. Pastures, hayland, spring-seeded crops should make excellent growth with warmer weather. Pastures providing good feed except some areas southeast.

OHIO: Light frost over rural and low areas in northern half of State on 23d. Toledo and Youngstown recorded lows of 33° and 34°, respectively. Probability of recording such low temperatures this late in spring is about 1 in 20. Daily mean temperatures averaged 5° to 7° above normal through 20th and 3° to 5° below normal remainder of week. Light showers, 0.25 inch or less, common only on

19th. Five days favorable fieldwork. Soil moisture supply 30% short, 70% adequate. Corn planting little over 90% complete, last year 70%, usual 55%. Soybeans 55% planted, last year 35%, usual 25%. Potato planting 85% complete, last year 75%, usual 70%. Wheat 10% headed, last year 30%, usual 15%. Barley 40% headed, last year 60%, usual 45%.

OKLAHOMA: Rainfall averaged 0.07 inch west-central to 2.40 inches southeast. Temperatures averaged from 2° below normal to 4° above normal. Extremes: 101° and 33°. First 1971 wheat from Cotton County, southwest Oklahoma delivered May 20. Harvest expected to gain momentum next 10 to 14 days. Crop all headed; 63% dough, 68% year ago. Weekend rains should help grain to fill properly north. Oats and barley harvest started. Oats 61%, barley 76% dough. Both same as year earlier. Dry weather west still delaying summer row crop plantings, some acreage dusted in. Corn 38% up to stand 2% tasselling. Sorghum 27%, cotton 14%, peanuts 17% planted; sharply behind year ago. Soybeans 1/3 planted. First cutting alfalfa 3/5 complete. Scattered rains replenished soil moisture eastern 2/3, but moisture short western 1/3. Pasture mostly fair to good except western 1/3 where supplemental feeding continues. Cattle being culled and sold in dry areas.

OREGON: Two cooling periods provided windy showers early mid-period and close of week. Cooler temperatures averaged 2° to 3° below normal along coast, 6° to 9° below normal elsewhere. Minima midweek 23° to 39° east side, 31° to 43° west side. Maxima 58° to 75° except 77° to 82° at east-central border. Showers 1 to 3 days southern half of State and north-central totaled up to 0.20 inch, 4 to 7 days elsewhere with northeast and western valleys 0.40 to 0.90 inch and Cascades and coast totaling 1.00 to 1.70 inches. Some light snow in mountains. Continued cool, damp weather slowed crop development. Winter barley heading out. Winter wheat in boot. Hay ready to cut as weather permits. Potato planting full swing central Oregon and Klamath Basin. Strawberries blooming. Red and black raspberries beginning to bloom. Processing vegetable planting continues. Sheep shearing becoming more active—heavier lambs going to market.

PENNSYLVANIA: A mild, rather dry, week. Warm through Thursday and then cooler over weekend. Quite hot on Wednesday with excess of 90° in central and southeastern Pennsylvania. Temperatures averaged 3° above normal over the southwest corner, 2° below normal over the southeast, and near normal elsewhere. Extremes: 92° at several locations on 19th and 27° at Bradford on 23d. Cold front on Thursday and frontal wave on Friday generally gave 0.25 inch or less rain except in northeast portion where from 0.75 to 1.00 inch was recorded. Several stations in western half of Commonwealth received no precipitation. Conditions favorable for fieldwork. Topsoil moisture 75% adequate, remainder short to surplus. Corn planting 50% planted, early fields good stands. Barley and wheat heading. First cutting of alfalfa for silage started. Early potatoes emerging. Apples blooming, favorable pollination weather. Strawberries later than usual. Asparagus cutting normal.

PUERTO RICO: A dry cool week. Only light showers beginning of week. Average rainfall 0.27 inch or about 1.00 inch below normal. No rain at 2/3 of island stations. Highest weekly total

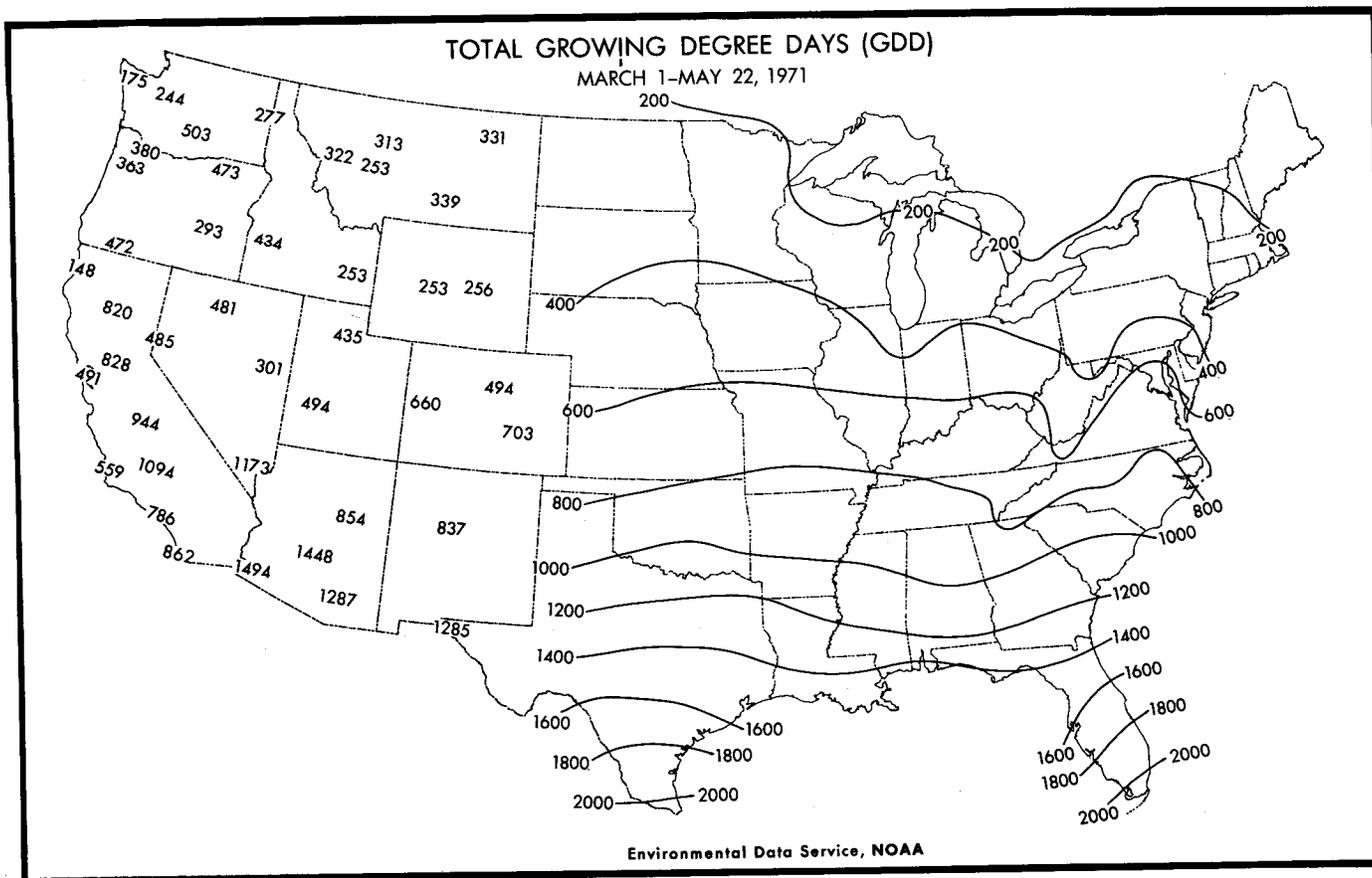
2.00 inches on west coast. Crop moisture conditions too dry some areas south coast and slopes. Otherwise near normal. Temperatures averaged 78° to 79° on coast and 73° interior divisions. Highest maximum 92°, lowest minimum 52°. Average departure 1.5° below normal. Sugarcane harvesting and grinding operations made good progress. Coffee plantations active cultivating and fertilizing. Tobacco cutting and drying operations progressed well. Pastures good to excellent, except some retardation southwest due lack of rain. Minor crops active planting cultivating and fertilizing.

SOUTH CAROLINA: One to 2.00 inches of rain fell at beginning of week all parts of State. Another 0.50 inch fell in outer coastal plain as week ended. Remainder of week was warm and dry. Temperatures were 1° to 2° below normal, ranging from the 50's to 80's. Soil moisture ample. Tobacco good to excellent, stands good. Small amount resetting. Cotton planting virtually complete, much replanting yet to be done. Condition stands and plants only fair. Corn planting virtually complete. Condition stands and plants mostly good. Soybeans 29%, peanuts 80%, and sorghum 22% planted. Little progress made, sweet-potatoes transplanted. Condition peaches fair to good. Harvest underway Barnwell area, expected to begin Ridge area this week. Small grains, pastures, hay crops good. Virtually all small grains headed, 50% plus turning color. About 45% grain hay harvested. Vegetable crops improved. Cabbage cutting continued. Snap bean harvest underway Charleston--Beaufort area.

SOUTH DAKOTA: Weekly temperatures averaged from near normal in extreme southeast to 7° below normal in west. Extremes ranged from 26° at Lemmon 19th to 84° at Bridgewater on 17th. Precipitation fell as showers and thundershowers scattered through week with totals ranging from about 0.50 inch to over 2.50 inches. The greatest amounts fell end of week. Timely rains replenished topsoil moisture but cool nights slowed crop growth. Topsoil moisture shortages were developing until Saturday when rains covering most of the State improved supplies. Cool nights, occasional frost slowed growth and caused light damage to alfalfa. Localized frost damage to flaxseed, few fields being reseeded. Corn planting nearing completion. Nearly all flaxseed planted. Winter wheat 28% and winter rye 45% boot stage. Planting sorghum and soybeans proceeding favorably. Livestock doing well on pasture, no unusual death losses. Pasture growth mostly fair to good. Most stock dams and dugouts full.

TENNESSEE: A sunny dry week. Temperatures normal to slightly below normal early in week becoming below normal last half. Few showers at mid-week and late in period. Totals ranged from none in most sections to just under 1.00 inch in northern parts of Cumberland Plateau. Small grains, wheat 90% headed, oats 85% headed and virtually all barley headed. Cotton 90% planted, corn 90% planted and soybeans 25% planted. Tobacco transplanting 20% complete. First cutting alfalfa hay 55% complete. Pasture conditions fair to good. Days favorable fieldwork 4.9. Soil moisture 7% surplus, 79% adequate and 14% short.

TEXAS: Beginning in Texas Hill Country Saturday, good rains of 1.00 inch or more spread eastward across central and East Texas on Monday. Little or no precipitation fell in the western 1/3 of State or in Lower Valley. Temperatures were near seasonal normals. Drought problem in



Texas continues to be main topic of discussion among farmers and ranchers. Drought conditions prevail over all except specific areas East Texas, Upper Coast, and Blacklands. Livestock owners continue to cull herds and sell young calves. Supplemental feeding and hauling water for live-stock being carried out in drier areas. Light showers did not provide needed grazing or fill low stock ponds. Planting of irrigated crops continues normal. Planting of dryland crops has been slowed or prohibited many areas because of inadequate moisture. Cool soil temperatures and high winds hindered germination and growth of recently-planted crops on the Plains. Main activities: planting, irrigation, cultivation, application of insecticides and tending livestock. Percent planted: cotton 55, 72 year ago; sorghum 68, 76 a year ago; corn 96, 98 a year ago; rice 97, 99 a year ago; peanuts 21, 34 a year ago. Onion harvest nearing completion Lower Valley, light supplies available into June; completed Laredo, Coastal Bend but active Winter Garden, Presidio. Harvest tomatoes, sweet corn, green peppers, cucumbers active Lower Valley; peak or near peak supplies. Lower valley shipments cantaloupes, honeydews, watermelons will peak current week. Watermelon harvest becoming active other South Texas areas. Potato digging complete Lower Valley, nearing completion Winter Garden. High Plains potatoes nipped by light frost, but prospects good potatoes and onions. Citrus harvest nearly complete. Peach prospects poor to fair. Light harvest underway South Texas. Pecans fair, spraying for casebearers active.

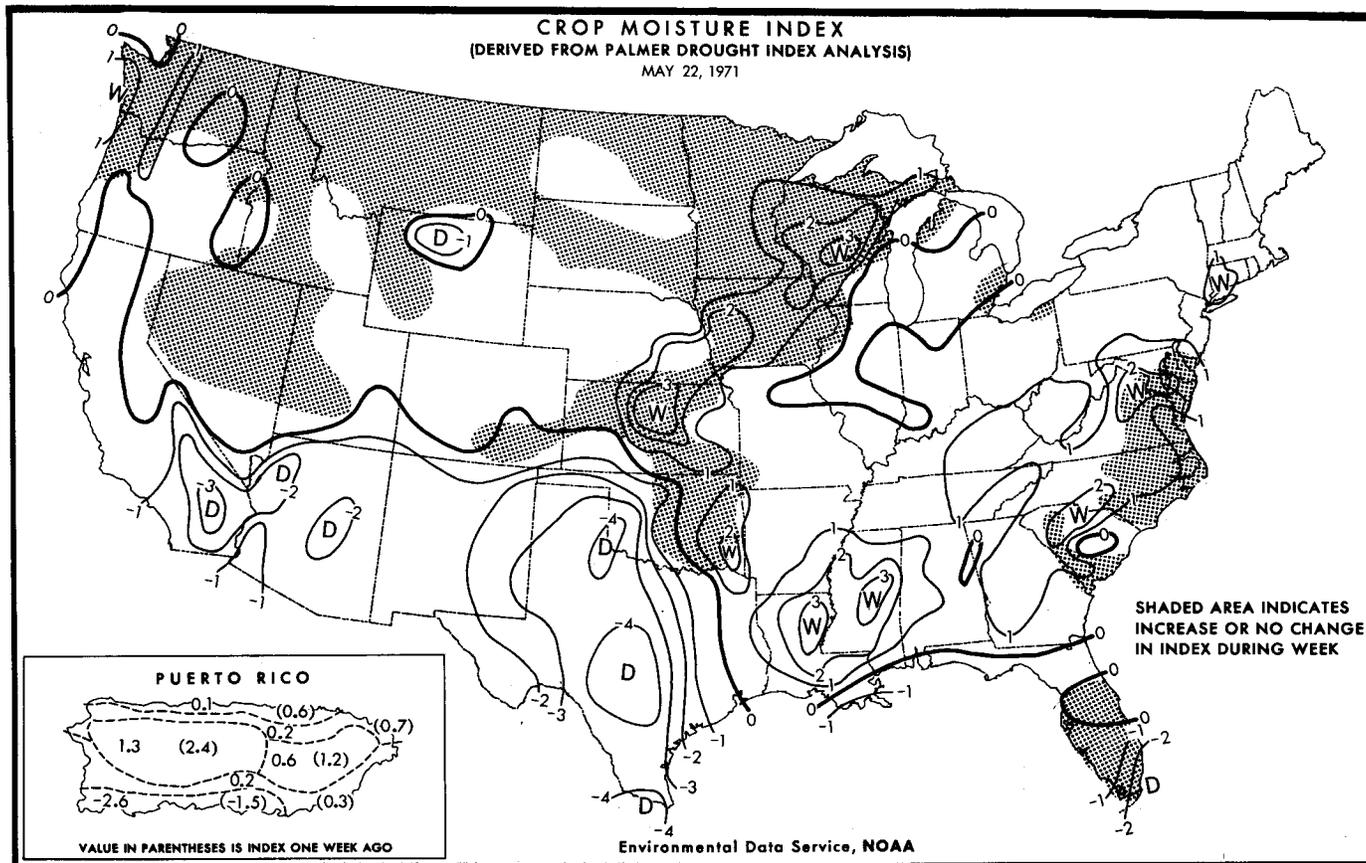
UTAH: Light precipitation northwest. Little or no precipitation southeast. Much colder tempera-

tures following storm forepart of week. Averages ranged between 3° and 10° below normal. Soil temperatures at 4-inch depth ranged from low 50's Cache Valley to mid-50's Salt Lake City, low 70's Richfield, upper 70's St. George. Frost May 17 and 19 severely damaged apples, sweet and sour cherries, pears and apricots Utah County, leading fruit area. Freeze damage to alfalfa hay reported most areas and will reduce 1st crop tonnage. Corn, grains, sugar beets, potatoes, and vegetable crops escaped or had only minor frost damage. Soil moisture fair to good most areas. Irrigation water plentiful. Calving, lambing and shearing nearly completed. Movement to spring ranges well advanced. Potato and snap bean planting underway, dry bean planting not started.

VIRGINIA: Temperatures above normal first half and below second half. Scattered showers and thundershowers late Thursday and Friday with mostly heavy amounts in the north and light in the south. Corn 85% planted. First cultivation underway. Peanuts 3/4 planted. Soybeans nearly 1/4. Flue-cured tobacco 1/3 set. Fired cured 1/4. Sun cured nearly 20% and burley 5% set. Hay tonnage light. Pastures improved. Barley heads and straw short. Harvesting strawberries Eastern Shore. Sheep shearing continued west.

WASHINGTON: West of Cascades: Cool, cloudy and wet most of week. Average temperatures 3° to 5° below normal. Precipitation amounts 1.00 inch interior valleys, 2.00 inches or more coastal area and in mountains. Snow in mountains several days. Strawberries near full bloom. Raspberries starting bloom. Processing peas planted. Plant-

(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.

TEXAS DROUGHT INTENSIFIES: WESTERN CORN BELT WET

Most of the Texas-Oklahoma drought area received only light scattered showers last week and the dry weather in that region intensified, as shown on the above map. Planting activities continue to be delayed, and dryland crops are in poor to fair condition. Dry weather returned to most of southern Florida. The improved CMI values shown above reflect the heavy rains of May 15 and 16.

Heavy showers over the western part of the Corn Belt temporarily delayed planting activities, but were generally welcome as most crops and

pastures maintained good early growth. Moisture conditions over the remainder of the Corn Belt were near normal for the season.

Wet conditions persisted in the lower Mississippi Valley and in parts of the South and Middle Atlantic States. In most of these areas, the rainfall, although heavy, was of relatively short duration and did not materially interfere with fieldwork.

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(WASHINGTON continued from page 10)
ing sweet corn and beans continues. Pastures improving. East of Cascades: Cloudy and cool with showers several days northern and eastern counties. Average temperatures 5° to 9° below normal. Rainfall very light central basin, 0.50 to 1.00 inch eastern and northern counties. Soil moisture improved in winter wheat area. Hand thinning peaches starting northern valleys. Orchard spraying for cherry fruit fly and codling moth. Sugar beet thinning and asparagus cutting continues. First cutting alfalfa starting. Early lambs starting to market. Cattle looking good.

WEST VIRGINIA: Dry sunny week with temperatures near 90° May 19 and 20. Light thundershowers statewide May 16 and in mountains and eastern Panhandle May 20. Farmwork active due to relatively dry weather. Fieldwork possible an average of 5 days. Soil preparation, planting corn, caring for livestock, and gardening farm activities. Soil moisture generally adequate. Corn is 63% planted. Tobacco beds are 67% emerged. Pastures below normal but growing good due to recent rain and warmer weather.

WISCONSIN: Heavy soaking rains fell over the northwestern 3/4 of State while only light amounts fell in southeast. Several tornadoes, minor

damage, Tuesday evening. Rains much appreciated and crops and pastures responding well. Good 1st crop hay assured most areas. Oats coming along fine, 2 to 6 inches tall. Corn about 2/3 planted, same as last year. Early corn up and generally good though little uneven in dry southeast. Potatoes planted north. Cannery crops also going in. Early peas up and doing well. Fruit trees starting to bloom north. Soil moisture 15% surplus, 65% adequate and 20% short.

WYOMING: Light rain, mixed with snow, occurred over most of State, with temperatures ranging generally from 3° to 9° below normal. South Pass City reported the most precipitation with 0.85 inch. Maxima were mostly high 60's to low 70's west of Divide and Upper Platte Drainage, mid-70's to low 80's elsewhere. Minima were mostly in 20's west of Divide and Upper Platte Drainage, high 20's to low 30's elsewhere. Temperature extremes were 82° at Torrington and 12° at Foxpark. Spring planting of crops progressed well last week. Corn and potato 50% seeded. Sugar beet planting complete, 45% emerged. Dry bean seeding started. Low lying crop lands near rivers subjected to flooding, especially in North Platte drainage basin and threat of more severe flooding continues.