

Weekly Weather & Crop Bulletin

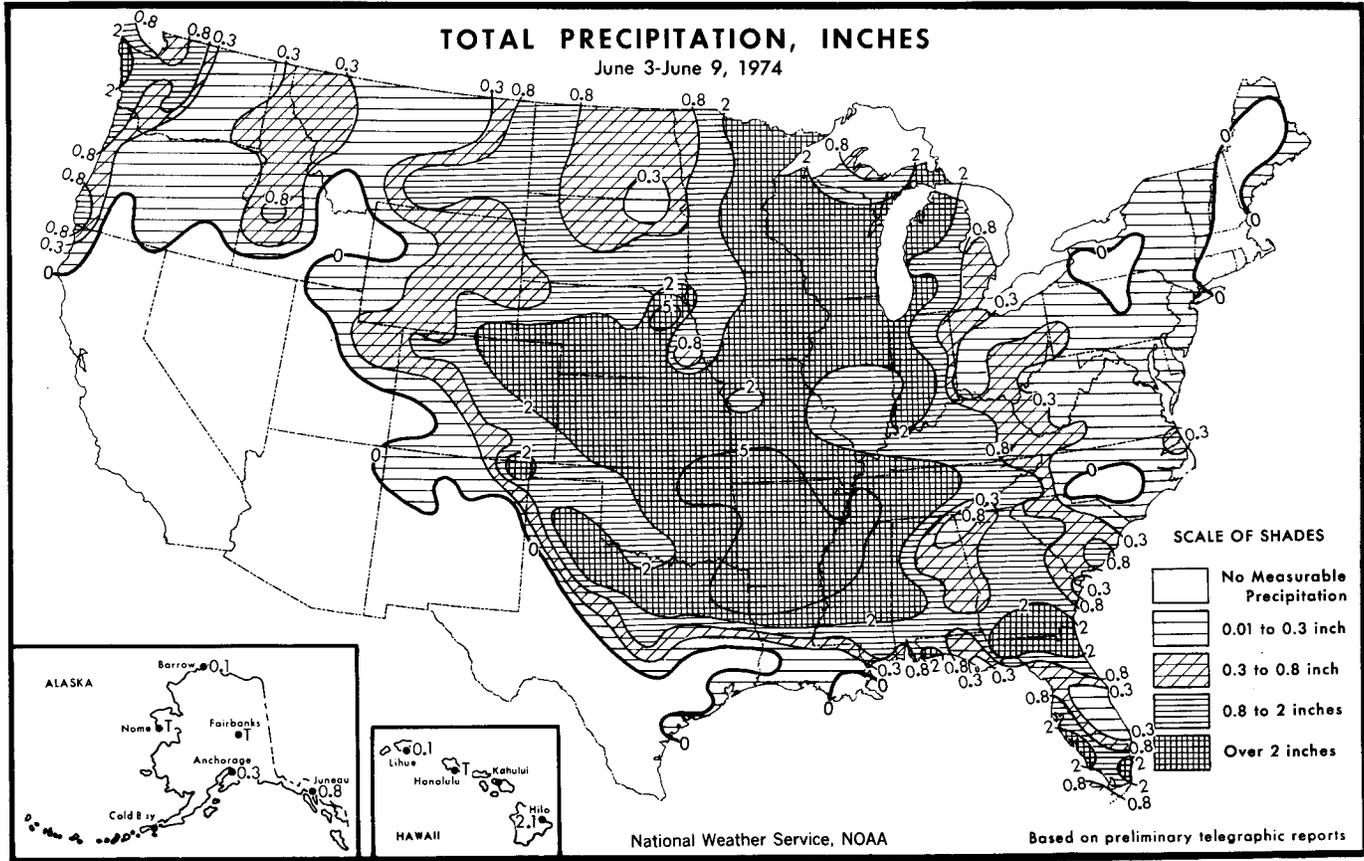
U. S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration

U. S. DEPARTMENT OF AGRICULTURE
Statistical Reporting Service

Volume 61, No. 24

June 11, 1974

Washington, D. C.



NATIONAL WEATHER SUMMARY

HIGHLIGHTS: A storm system from the upper Great Lakes southward into Texas triggered tornadoes, thunderstorms, high winds, and torrential rains across the Southern Plains and lower Mississippi Valley causing considerable damage and personal injury last week. As the storm slowly inched eastward, the heavy rainfall sparked flash floods in Louisiana, Arkansas, Kansas, Oklahoma, Missouri and Texas.

Although eastern Colorado got 1.00 to 2.00 in. of much needed precipitation last week, most of the Southwest remained dry.

Mild temperatures dominated the Nation, with averages as much as 8° above normal in California's Imperial Valley and throughout the Southwest, and 9° above normal in the Great Lakes area.

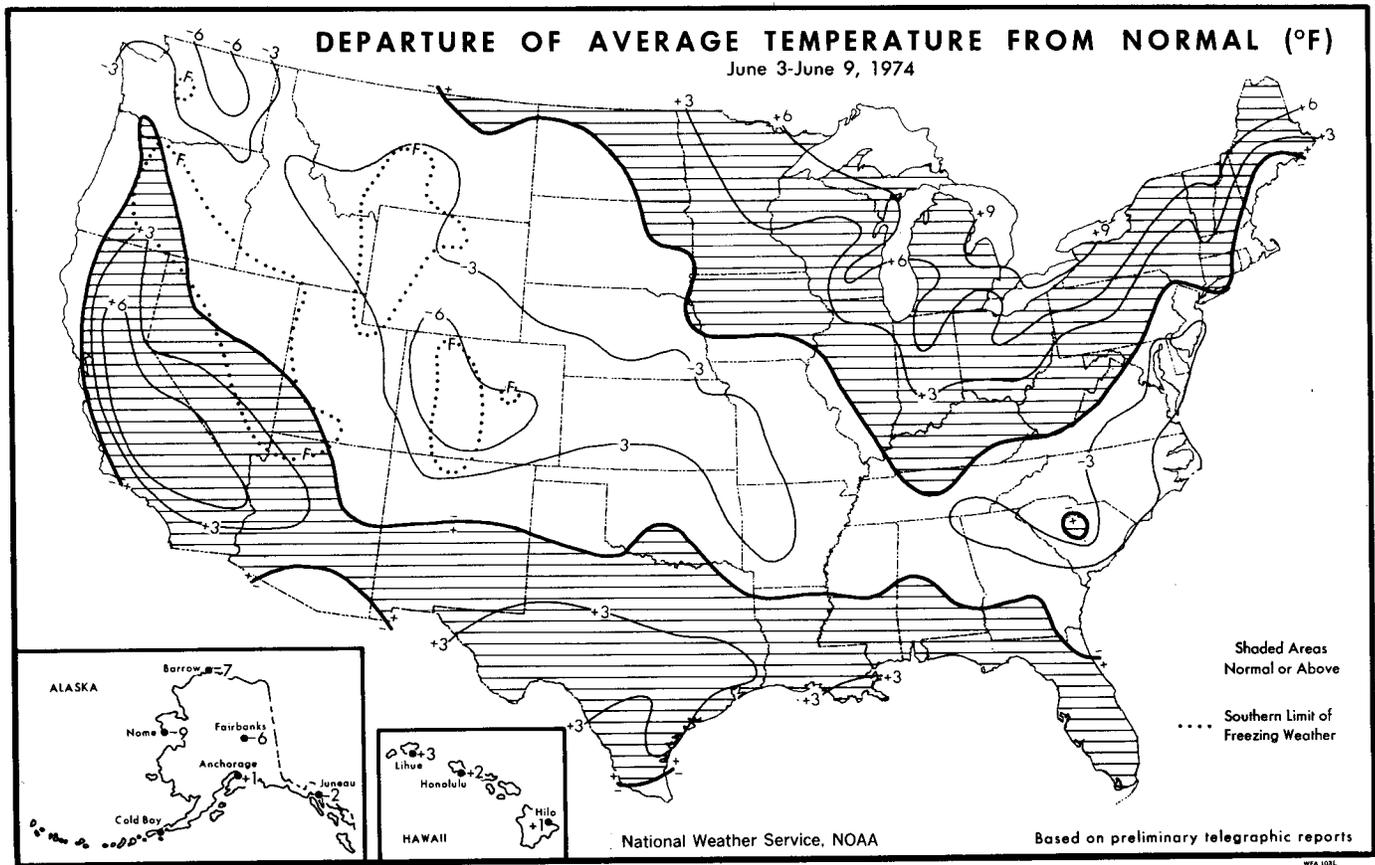
PRECIPITATION: Widely scattered precipitation fell across the eastern two-thirds of the Nation last week. Light precipitation dampened sections of Idaho, Montana, Washington and Oregon. Some of the

heaviest rainfall amounts occurred in the following cities: Fort Worth, Tex., 4.61 in.; Shreveport, La., 6.09 in.; Little Rock, Ark., 6.98 in.; Springfield, Mo., 5.13 in.; Tulsa, Okla., 7.75 in.

Early in the week tornadoes and heavy rain spread across the Plains. Monday night tornadoes were reported in north central Texas and near Claremont, Minn., Fargo, N.D., Aberdeen, S.D. and Liberal, Kansas. Flooding occurred in the Texas southern plains as 2.00 to 3.00 in. of rain fell in a 2 hour period, with isolated reports of 4.00 in. or more.

Toward the week's end, a cold front triggered strong thunderstorms from Minnesota to Kansas. Thursday night, the storms produced severe weather and heavy rains in Kansas and Nebraska where Franklin was soaked with 2.50 in. of rain in just 20 minutes. Golfball size hail and 50 mph winds struck near Ayr. Heavy hail also pelted Attica and Dodge City, Kan.

Thursday, turbulent weather swept through the southern Plains and Mississippi Valley. A tornado



hit Forrest City, Ark., late Thursday causing 8 fatalities and 400 injuries, as it cut a path 6 blocks wide through the city. Meanwhile, 2.00 in. rains were common in parts of Missouri, Kansas, Oklahoma and Arkansas.

Friday afternoon, heavy thunderstorms continued from north central Texas into extreme western Tennessee. Over 5.00 in. of rain fell just north of the Dallas-Fort Worth, Tex., area, closing 9 major thoroughfares in Dallas.

On Saturday, more heavy rains, flooding and tornadoes hit the Nation's midsection. A tornado ripped through Drumright, Okla., leaving at least 100 injured and 5 dead. Another tornado hit a shopping center at Emporia, Kan., killing 5. Altogether Saturday, 35 twisters were reported: 15 in Oklahoma and 16 in Kansas.

Another destructive storm hit Tulsa, Okla., Saturday evening destroying scores of homes and leaving at least 3 persons dead and hundreds injured.

Sunday, more than 4.00 in. of rain drenched Tulsa, Okla., within only 3 hours, leaving 3 dead as the result of widespread flooding in urban areas. Meanwhile, 2.00 and 3.00 in. rains were common in parts of Kansas, Iowa, Nebraska, and Missouri, overflowing rivers and closing roads. Northeastern Texas got 4.00 in. rains sparking major flooding on the Sulphur River.

TEMPERATURE: Mild temperatures marked the Nation's weather last week. In the western half of the Nation, temperatures averaged 1° to 6° below normal from the Plains northwestward to the Washington Coast. Sections of the Southeast, including South Carolina, North Carolina, Virginia and Georgia reported temperatures slightly below nor-

mal. In contrast, temperatures averaged 2° to 5° above normal throughout central Texas during the week.

Early in the week a strong onshore flow of moist maritime air brought cloudy and cool weather to the Pacific Coast. Elsewhere on Monday, the thermometer in the Desert Southwest topped the 100° mark. The hottest spot was Buckeye, Ariz., with 103°. Meanwhile, fair weather prevailed in the southwest and most of the Atlantic Coast States as well as the lower Great Lakes Region and the Ohio Valley.

Wednesday morning low temperatures ranged from the 40's in portions of the Northwest to the 70's along the Gulf Coast and in portions of interior southern California.

From Texas westward, fair skies continued over much of the Southwest with some low cloudiness along the southern California coast. Elsewhere, fair skies dominated the Northeast while considerable cloudiness blanketed the rest of the Nation. Afternoon temperatures around the Nation ranged from 46° at Laramie, Wyo., to 103° at Big Spring, Tex.

A High pressure area centered off Cape Cod brought sunny skies and mild temperatures to New England on Friday. Warm, clear air covered most of the Pacific Coast with the exception of low clouds in southern California and along the Washington Coast. Elsewhere, temperatures were mild, but Del Rio, Tex., topped the Nation with a 108°.

Saturday, fair weather prevailed west of the Continental Divide. Minimum morning temperatures ranged from 23° at Ely, Nev., to 82° at Corpus Christi, Tex. Colutta, Tex., reported the Nation's hottest reading with 107°.

NATIONAL AGRICULTURAL SUMMARY

HIGHLIGHTS: Winter wheat harvest slowed by wet weather, continues ahead of last year's pace. Corn planting 91 percent complete in the North Central Region. Rain still slows progress in Iowa and Illinois. Soybean planting active, is behind last year's late season and the average planting progress.

SMALL GRAINS: Winter wheat development continues ahead of last year in Kansas and Nebraska, while rains, heavy in some areas, slowed harvest in Texas and Oklahoma. Wet weather still delays spring wheat seeding in the northern areas of the Red River Valley in North Dakota and Minnesota.

Harvesting advanced to 32 percent complete in Texas, compared to 12 percent a year earlier; 20 percent complete in Oklahoma, slightly behind average for the date. Only a few fields have been harvested in Kansas.

Kansas wheat crop is 55 percent turned compared with only 25 percent last year and the 10 year average of 50 percent. Mosaic and rust continues serious in Central Kansas.

Nebraska's winter wheat is in mostly fair to good condition, virtually all headed and 25 percent turned, compared with only 15 percent normally. Cool weather continues to slow small grain maturity in Montana and the Pacific northwest. In the Corn Belt; Ohio's wheat is 95 percent headed, while Illinois' crop is virtually all filling and 45 percent is turning yellow.

CORN: Rains hampering planting progress in the major Corn Belt States. As of June 9, corn planting in the North Central Region advanced 8 points from the previous week to 91 percent complete against 89 percent a year earlier but 95 percent average progress.

Iowa intended corn acreage is 93 percent planted, while Kansas, Nebraska and Ohio are nearly complete. Corn planting in Illinois, at 85 percent, and Indiana at 75 percent done, is still behind both last year and average progress. Planting in the Southern and Eastern States is nearing completion. Most corn in the Corn Belt has emerged and is in mostly good to fair condition. However, in Iowa heavy rains caused 8 percent of the acreage to be replanted.

COTTON: Cotton planting is virtually complete in major growing States except Texas, Oklahoma and Tennessee. Texas cotton planting is 89 percent complete, compared to the average of 94 percent.

Oklahoma planting is 92 percent done, ahead of average and one week ahead of the 1973 progress. Some replanting was necessary in the Southwest. Rain slowed planting progress in Tennessee and 90 percent of the intended acreage is planted, behind the 95 percent last year and the 100 percent normally by this date. Growth has been slow and many wet, grassy, and weedy fields need cultivating. Rain and hailstorms damaged large acreages in Texas.

Cotton growth rate continues to increase in

Arizona and squaring is well advanced in the Yuma area. Cotton condition in Mississippi is mostly fair, with 3 percent squaring.

SOYBEANS: Planting of soybeans in the Corn Belt gained momentum as growers finished corn planting and weather cooperated in some States. Rain continued to slow progress in Illinois and Iowa during the past week. As of June 9, the North Central intended soybean acreage was 57 percent planted, compared with 58 percent in 1973 and average progress of 78 percent.

Planting progress ranged from 95 percent complete in Ohio to only 28 percent in Illinois. Iowa soybeans were 69 percent planted while Missouri progressed to 38 percent planted and Indiana farmers doubled their planted acreage during the week to 40 percent complete. The Southern States soybean crop is 53 percent planted, slightly ahead of last year's level of 52 percent. Wet weather also slowed planting progress in these States with Arkansas making little or no progress during the week.

OTHER CROPS: Sorghum planting is 90 percent complete in Nebraska, 82 percent in Texas, 55 percent in Kansas and 51 percent in Missouri.

Haying was in full swing where weather permitted. Rains and flooded lowlands continued to limit tobacco setting in Kentucky.

Potato planting in Aroostook Co., Me. advanced to 80 percent done with many operators to finish this week.

Rice seeding in Texas is 96 percent done while early rice in Arkansas is stooling.

FRUIT AND NUTS: Fruit crops in the Eastern United States benefitted from warmer weather. The set of tart cherries and pears in Michigan is light to average, peach set is good and apple set is average. Georgia peaches poor to fair with harvest active on their short crops. South Carolina harvesting early peaches in all areas. Fruit in California orchards and vineyards continued making excellent growth.

VEGETABLES: Watermelon shipments are increasing in Texas and Florida as more areas are coming into production. Volume of Florida's tomatoes, cucumbers, snap beans, carrots, radishes, and peppers are declining rapidly as the season nears end. Steady supplies of sweet corn are moving from Florida and California, while lettuce is normal at Salinas and heavy at Santa Maria.

PASTURES AND LIVESTOCK: Pasture and range feed in the southwest deteriorated and ranchers are now moving livestock to higher elevations. Many ranchers are concerned with a possible shortage of water in potholes and reservoirs. Supplemental feeding is required in Arizona and central and south coast foothills of California. Pastures in the North Central States are in good to excellent condition and cattle are making good gains.

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., June 9, 1974

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 . . .	76	0	.4	-.4	La.Baton Rouge . . .	81	+ 2	.1	-.7	Youngstown . . .	71	+ 6	T	-.8
Mobile . . .	80	+ 1	.7	-.5	Lake Charles . . .	81	+ 2	0	-1.1	OKLA.Okla. City . . .	74	- 0	3.3	+ 2.2
Montgomery . . .	77	0	.8	0	New Orleans . . .	82	+ 3	T	-1.0	Tulsa . . .	73	- 2	7.8	+ 6.6
ALASKA, Anchorage . . .	54	+ 1	.3	+ .1	Shreveport . . .	78	0	6.1	+ 5.2	OREG.Astoria . . .	53	- 2	1.9	+ 1.3
Barrow . . .	23	- 7	.1	0	MAINE,Caribou . . .	64	+ 7	T	-.8	Burns . . .	55	- 1	T	-.3
Fairbanks . . .	51	- 6	T	-.3	Portland . . .	58	- 2	.4	-.4	Medford . . .	62	0	T	-.3
Juneau . . .	50	- 2	.8	+ .2	MD.Baltimore . . .	67	- 3	T	-.8	Pendleton . . .	62	- 1	T	-.1
Kodiak . . .	--	--	--	--	MASS.Boston . . .	64	- 1	0	-.8	Portland . . .	60	0	.3	-.1
Nome . . .	34	- 9	T	-.2	Chatham . . .	56	0	--	--	Salem . . .	57	- 2	.2	-.2
ARIZ.Flagstaff . . .	58	+ 3	T	-.1	MICH.Alpena . . .	66	+ 8	.8	+ .1	PA.Allentown . . .	66	- 1	.1	-.7
Phoenix . . .	84	+ 2	0	0	Detroit . . .	72	+ 6	.4	-.4	Erie . . .	70	+ 8	.1	-.7
Tucson . . .	79	- 1	0	0	Flint . . .	72	+ 9	.5	-.3	Harrisburg . . .	71	+ 1	T	-.8
Winslow . . .	69	0	T	0	Grand Rapids . . .	70	+ 5	3.3	+ 2.5	Philadelphia . . .	69	- 1	.1	-.7
Yuma . . .	84	+ 1	0	0	Houghton Lake . . .	68	+ 8	2.6	+ 1.8	Pittsburgh . . .	67	+ 1	.7	-.1
ARK.Fort Smith . . .	71	- 5	4.1	+ 3.1	Lansing . . .	72	+ 7	1.0	+ .2	Scranton . . .	66	0	.2	-.6
Little Rock . . .	73	- 3	7.0	+ 6.1	Marquette . . .	64	+ 7	.8	0	R.I.Providence . . .	63	- 1	0	-.7
CALIF,Bakersfield . . .	82	+ 8	0	0	Muskegon . . .	68	+ 5	1.8	+ 1.2	S.C.Charleston . . .	74	- 3	1.4	+ .1
Eureka . . .	53	- 2	.2	0	S. Ste. Marie . . .	64	+ 8	2.3	+ 1.5	Columbia . . .	77	0	.6	-.2
Fresno . . .	79	+ 8	0	0	MINN.Duluth . . .	61	+ 5	3.0	+ 2.0	Greenville . . .	73	- 1	.6	-.3
Los Angeles . . .	69	+ 2	0	0	Internatl Falls . . .	63	+ 5	4.0	+ 3.1	S.D.Aberdeen . . .	63	0	.2	-.6
Red Bluff . . .	77	+ 4	0	-.1	Minneapolis . . .	67	+ 3	3.7	+ 2.8	Huron . . .	64	0	1.8	+ .9
San Diego . . .	65	0	T	0	Rochester . . .	66	+ 2	3.9	+ 2.8	Rapid City . . .	60	- 1	.9	0
San Francisco . . .	61	0	T	-.1	St. Cloud . . .	65	+ 3	2.8	+ 1.7	Sioux Falls . . .	64	- 1	1.8	+ .8
Stockton . . .	78	+ 8	0	-.1	MISS.Jackson . . .	79	+ 1	2.6	+ 1.8	TENN.Chattanooga . . .	70	- 4	.3	-.5
COLO.Denver . . .	58	- 5	2.0	+ 1.5	Meridian . . .	78	0	2.6	+ 1.8	Knoxville . . .	73	- 1	1.3	+ .5
Grand Junction . . .	62	- 6	.1	0	MO.Columbia . . .	69	- 2	2.8	+ 1.7	Memphis . . .	76	- 1	4.6	+ 3.8
Pueblo . . .	62	- 6	1.1	+ .8	Kansas City . . .	68	- 4	1.8	+ .5	Nashville . . .	75	0	3.6	+ 2.8
CONN.Bridgeport . . .	67	+ 2	T	-.6	St. Louis . . .	71	- 2	.7	-.3	TEX.Abilene . . .	81	+ 3	3.5	-.2
Hartford . . .	67	+ 2	0	-.8	Springfield . . .	68	- 3	5.1	+ 4.0	Amarillo . . .	70	- 2	2.3	+ 1.5
D.C.Washington . . .	70	- 2	T	-.8	MONT.Billings . . .	55	- 5	1.8	+ 1.1	Austin . . .	83	+ 3	T	-.8
FLA.Apalachicola . . .	81	+ 2	.1	-.9	Glasgow . . .	60	+ 1	.2	-.4	Beaumont . . .	82	+ 3	.1	-1.0
Daytona Beach . . .	79	+ 1	1.3	0	Great Falls . . .	56	- 2	.2	-.6	Brownsville . . .	78	- 4	0	-.7
Ft. Myers . . .	81	+ 1	4.0	+ 2.2	Havre . . .	58	- 2	.2	-.4	Corpus Christi . . .	85	+ 4	0	-.7
Jacksonville . . .	77	- 1	2.2	+ .9	Helena . . .	55	- 2	.1	-.5	Del Rio . . .	87	+ 4	T	-.5
Key West . . .	83	0	.7	-.3	Kalispell . . .	54	- 1	.4	-.2	El Paso . . .	81	+ 2	0	-.1
Lakeland . . .	81	+ 1	.1	-1.3	Miles City . . .	61	- 1	.8	0	Fort Worth . . .	80	+ 2	4.6	+ 3.8
Miami . . .	82	+ 2	5.5	+ 3.4	Missoula . . .	54	- 2	.4	-.1	Galveston . . .	78	- 2	.1	-.8
Orlando . . .	81	+ 2	.1	-1.3	NEBR.Grand Island . . .	67	- 1	2.1	+ 1.0	Houston . . .	83	+ 3	.2	-.9
Tallahassee . . .	80	+ 1	2.2	+ .9	Lincoln . . .	66	- 3	.8	-.4	Lubbock . . .	77	+ 2	T	-.7
Tampa . . .	82	+ 2	1.8	+ .6	Norfolk . . .	66	- 1	6.9	+ 5.7	Midland . . .	83	+ 5	T	-.4
W.Palm Beach . . .	80	0	3.7	-1.5	N.Platte . . .	62	- 3	3.3	+ 2.4	San Angelo . . .	84	+ 4	0	-.5
GA,Atlanta . . .	73	- 3	1.3	+ .9	Omaha . . .	68	0	1.7	+ .5	San Antonio . . .	84	+ 3	T	-.7
Augusta . . .	74	- 3	.8	0	Valentine . . .	62	- 2	1.1	+ .3	Victoria . . .	85	+ 4	T	-.8
Macon . . .	77	- 1	.9	+ .1	NEV.Ely . . .	55	0	T	-.2	Waco . . .	83	+ 3	.5	-.3
Savannah . . .	77	- 1	.3	-.9	Las Vegas . . .	84	+ 5	0	0	Wichita Falls . . .	79	0	1.4	+ .5
HAWAII,Hilo . . .	75	+ 1	2.1	+ .5	Reno . . .	60	+ 1	0	-.1	UTAH,Blanding . . .	62	- 1	0	-.1
Honolulu . . .	80	+ 2	T	-.1	Winemucca . . .	59	0	0	-.3	Salt Lake City . . .	61	- 2	.3	-.1
Kahului . . .	--	--	--	--	N.H.Concord . . .	63	+ 1	0	-.8	VT.Burlington . . .	69	+ 6	.1	-.7
Lihue . . .	80	+ 3	.1	-.3	N.J.Atlantic City . . .	65	- 3	.1	-.7	VA.Lynchburg . . .	68	- 3	T	-.8
IDAHO,Boise . . .	60	- 2	.6	+ .3	Trenton . . .	67	- 2	T	-.7	Norfolk . . .	70	- 3	.2	-.6
Lewiston . . .	60	- 2	.4	-.1	N.MEX.Albuquerque . . .	77	+ 2	0	-.3	Richmond . . .	69	- 3	T	-.7
Pocatello . . .	56	- 3	T	-.4	Roswell . . .	77	+ 2	0	-.3	Roanoke . . .	69	- 1	.3	-.5
ILL.Cairo . . .	74	- 2	3.7	+ 2.6	N.Y.Albany . . .	66	+ 1	.3	-.4	WASH.Colville . . .	55	- 4	.1	-.3
Chicago . . .	71	+ 3	3.1	+ 2.2	Binghamton . . .	65	+ 3	.1	-.7	Omak . . .	56	- 6	T	-.3
Moline . . .	70	+ 2	3.1	+ 2.1	Buffalo . . .	72	+ 9	T	-.5	Quillayute . . .	51	- 3	2.0	+ 1.1
Peoria . . .	70	+ 1	3.0	+ 2.1	New York . . .	67	- 2	T	-.7	Seattle-Tacoma . . .	56	- 2	1.1	+ .7
Rockford . . .	71	+ 5	3.4	+ 2.4	Rochester . . .	72	+ 8	T	-.6	Spokane . . .	55	- 4	.2	-.2
Springfield . . .	72	+ 1	1.8	+ .9	Syracuse . . .	70	+ 6	0	-.7	Walla Walla . . .	61	- 4	.3	-.1
IND.Evansville . . .	74	+ 1	2.0	+ 1.1	N.C.Asheville . . .	67	- 2	.9	0	Yakima . . .	57	- 5	.1	-.1
Ft. Wayne . . .	72	+ 5	.8	-.1	Charlotte . . .	72	- 2	0	-.8	W.Va.Beckley . . .	67	+ 2	.1	-.9
Indianapolis . . .	73	+ 4	2.0	+ 1.0	Greensboro . . .	69	- 4	.1	-.7	Charleston . . .	72	+ 2	.4	-.3
South Bend . . .	73	+ 7	1.6	+ .8	Hatteras . . .	72	0	.1	-.9	Huntington . . .	72	+ 1	.4	-.4
IOWA,Burlington . . .	68	- 1	3.5	+ 2.4	Raleigh . . .	70	- 3	T	-.8	Parkersburg . . .	73	+ 3	T	-.9
Des Moines . . .	68	0	3.9	+ 2.7	Wilmington . . .	73	- 3	T	-1.1	WIS.Green Bay . . .	65	+ 3	2.5	+ 1.7
Dubuque . . .	66	+ 1	3.2	+ 2.0	N.DAK.Bismarck . . .	59	- 3	.4	-.4	La Crosse . . .	67	+ 1	2.5	+ 1.4
Sioux City . . .	69	+ 1	2.2	+ 1.1	Fargo . . .	64	+ 2	.4	-.3	Madison . . .	69	+ 6	2.8	+ 1.8
KANS.Concordia . . .	66	- 4	2.7	+ 1.5	Williston . . .	59	- 1	1.7	+ 1.0	Milwaukee . . .	66	+ 4	2.5	+ 1.7
Dodge City . . .	68	- 3	3.9	+ 3.1	OHIO,Akron-Canton . . .	72	+ 6	.1	-.7	WYO.Casper . . .	55	- 4	.6	+ .2
Goodland . . .	62	- 4	3.9	+ 3.2	Cincinnati . . .	72	+ 2	-.2	-.6	Cheyenne . . .	55	- 3	2.5	+ 1.9
Topeka . . .	68	- 3	2.9	+ 1.6	Cleveland . . .	72	+ 6	.1	-.7	Lander . . .	55	- 3	.3	-.2
Wichita . . .	70	- 3	2.5	+ 1.5	Columbus . . .	73	+ 5	.6	-.3	Sheridan . . .	56	- 2	.5	-.2
KY,Lexington . . .	72	+ 1	1.2	+ .2	Dayton . . .	73	+ 4	.1	-.8	P.R.San Juan . . .	56	- 2	.5	-.2
Louisville . . .	72	+ 1	.9	-.1	Toledo . . .	72	+ 5	.6	-.2					

CONDENSED STATE SUMMARIES

The Bulletin capsulizes nationally important weather and crop conditions. Every Monday SRS publishes more detailed data in State Weekly Weather and Crop Bulletins in cooperation with the National Weather Service, NOAA. Voluntary weather observers, crop reporters, and county extension agents contribute weekly observations for these reports.

ALABAMA: Sunny with widely scattered showers Statewide entire week. Temperatures averaged near normal, highs in 80's and lows in 60's. Showers most frequent 5th through 7th. Greatest totals western and central sections ranged from 1.00 to 2.00 in.

Fair progress made cultivating and applying herbicides to row crops. Cotton made satisfactory growth, needs more open weather. Few early fields beginning to square south and central. Grass and weeds are problems in wet areas. Corn in south Alabama silking, but just emerging many fields north. Peanuts made good growth, need moisture few localities. Soybean acreage planted 80%, 60% last year. Combining wheat Statewide. Harvest about 33% complete.

ALASKA: Precipitation over most of state but total is still below normal. Minimum temperatures averaged near normal while maximums averaged 4° to 5° below.

Soil moisture supply generally short. Crop planting virtually completed. All crops reported in good condition. Some drought areas in pastures. Livestock in generally good condition.

ARIZONA: Widely scattered showers north central, northeast, generally less than 0.10 in. Windy on 7th, more than 40 mph Northeast. Temperatures near normal most of State, 3° below normal Southeast.

Cotton growth rate continues to increase, squaring well advanced, Yuma area. Central Valley areas nearing 30%. Flowering and setting early bolls occurring, Yuma vicinity. Insect activity on increase. Harvesting small grains 30% Yuma area, Central Desert Valley counties 25% harvested. Sorghum processing well, early plantings Yuma area past bloom stage. Safflower reaching maturity, many fields past bloom, yield prospects good. Harvesting sugarbeets continues, good yields reported. Alfalfa hay harvest into third cutting. Lettuce harvest full volume willcox. Watermelons, cantaloupes good growth. Harvest full volume Yuma area. Harvest potatoes, dry onions continued Salt River Valley. Ranges under heavy stress.

ARKANSAS: Rain heavy, 19 stations reporting over 5.00 in. Least rainfall 2.35 in., greatest 13.69 in.

Severe weather and local flooding halted field activity. Soil moisture adequate to mostly surplus. Cotton fields very grassy. Earliest fields showing squares. Rice levees damaged, crop growing well. Herbicides losing effectiveness. Early rice stooling. Soybean planting made no headway. Oat crop maturing rapidly. Wheat combining will resume as weather permits. Corn growing well. Sorghum planting delayed, 70% complete. Wet haying weather lowered quality. Cattle doing well on succulent pasture growth. Spray schedules on fruit and vegetables difficult to maintain.

CALIFORNIA: Night and morning low cloudiness along coastal sections kept temperatures near normal. Northerly winds, occasionally strong, extended over inland areas of northern and central areas last part of period.

Warm temperatures allowed harvesting small grains and hay. Alfalfa yields above average Northern California. Barley, wheat harvesting

nearly completed South. Winds hampered Central area harvesting. Rice looking very favorable most areas. Cotton developing rapidly Southern regions. Planting milo, corn, lima beans continuing. Safflower crops Central regions developing rapidly. Harvest table grapes active South. Strong, gusty winds damaged some vines Modesto area. Applying controls insects and diseases. Almonds sizing well. Walnuts progressing normally. Controls applied pears for codling moth and blight. Apricot, nectarine, peach and plum harvests continue. Cherry harvest Stockton area to end. Avocado harvest continues, wet, foggy weather Santa Barbara reduced new crop sets. Valencia orange harvest active. Grapefruit active thermal, to begin about June 20 other areas. Dates sizing well thermal. Broccoli good supply, quality. Cauliflower moderate. Sweet corn continues Coachella. Range feed conditions good though grasses dry, fire danger high. San Joaquin Valley sheep men moving stock to grain stubble.

COLORADO: Major storm system brought moderate to heavy precipitation to northern and eastern portions. Weekly totals ranged .25 to 1.25 in. Southeast to 1.00 to 2.00 in. North and Central, and 3.00 in. at Fort Collins and Fraser. Heavy snow reported in Northern and Central mountain areas. Temperatures dropped sharply on 5th and 6th as a cold air mass moved into the area. Readings on the 8th were 20° to 30° below seasonal normals.

Lack of moisture caused continued deterioration of dryland crops during week, weekend rain brought relief. Small grains hard hit. Corn condition still good. Wheat 93% headed, 27% turning color. Barley 90% headed, 16% turning. Sorghum 56% seeded, 14% emerged, fair condition. Sugarbeets 50% thinned. Dry beans 67% planted, 20% emerged. Fall potatoes 28% emerged, condition good to excellent. Alfalfa condition good to excellent except dryland poor to fair. Spraying for insect control. Range and pasture condition declined rapidly.

FLORIDA: Warm days and mild nights with scattered afternoon showers and thundershowers during week. Rainfall moderate to heavy at isolated locations. Temperatures averaged near normal.

Soil moisture variable, adequate North and West, short Central and South. Corn, peanuts, sugarcane in good condition. Soybean planting active. Small grain harvest rapidly nearing completion. Oat yields good, wheat yields very poor. Pastures fair to good condition Statewide. Cattle and calves fair to good condition. Watermelon shipments increasing, more areas coming into production. Steady supplies eggplant, sweet corn. Volume declining rapidly. Tomatoes, potatoes, cucumbers, snap beans, carrots, radishes, peppers. Season approaching end many crops. Citrus tree condition continues to improve with rain. More rains needed—Abundance of new growth—June bloom spotty on oranges and temples.

GEORGIA: Temperatures averaged from 1° to 2° below normal with mean temperatures 69° in the mountains to 78° on the coast. Heaviest rain in the Northeast—generally 1.00 to 2.00 in. while the East and East Central averaged less than 1.00 in.

Soil moisture supplies highly variable range from surplus to very short. Field work continued active. Cotton fair to mostly good condition, 32% squaring, 11% setting bolls. Tobacco good condition, 4% harvested. Corn fair to mostly good condition. Nitrogen short some areas, application rates reduced. Peanuts mostly good, applying herbicides, fungicides, and insecticides. Soybeans 73% planted and sorghums 59% planted. Wheat 71% harvested. Oats 70% harvested. Peaches poor to fair with harvest active on short crop.

HAWAII: Weather generally favorable to crop progress. Showers mostly in windward areas beneficial to crops. Irrigation heavy dry areas. Spraying intensified to minimize insect damage. Supplies of vegetables adequate. Production of bananas at seasonal low. Papaya production heavy, but decreasing. Cattle and pastures in good condition. Pineapple harvesting active. Sugar operations normal.

IDAHO: Fair, warm weather first of week was replaced by cooler temperatures, gusty surface winds, rain, and snow at some higher elevations. Temperatures averaged about 4° below normal. Precipitation general throughout.

Crop irrigation and cultivation of row crops active. Crop progress behind year ago. Winter wheat 25% headed. Spring wheat mostly boot and pre-boot stage, some early fields headed. Barley more advanced, numerous Southwestern fields well into heading stage. Potato planting in windup stage East, generally completed other areas. Southwestern fields emerged, South Central 66% and East 33% emerged. Planting of dry beans continuing with half of bean crop emerged. Spraying active for control of cherry fruit fly and apple codling moth. Haying active Southwest.

ILLINOIS: Temperatures above normal North, below extreme South. Precipitation heavy, 2.00 to 4.00 in. Corn planting 85% complete, 87% 1973, 1971-73 average 96%. Emerged crop 81% of full stand. Soybean planting about 28% complete, 55% 1973, average 80%. All winter wheat filling stage, 90% 1973, 45% turning yellow, 35% last year. Oats 65% heading stage, 20% filling stage. First cutting alfalfa hay 25% complete, 32% 1973. Red clover hay cutting nearly 20% complete. Grain sorghum planting 10% complete, 30% last year. Soil moisture 9% adequate, 91% surplus. Fieldwork: 2.5 days suitable for fieldwork.

INDIANA: Temperatures ranged from 53° to 87° up 2° to 8° from normal. Rainfall heavy except Eastern third. Average amounts ranged from 0.40 in. Southeast to 1.70 in. Southwest. High humidity, lack of sunshine slowed drying.

Fieldwork averaged 3 days. Fieldwork progress 9 days behind. Topsoil and subsoil moisture adequate to surplus. Corn 75% planted, 80% in 1973, 90% average. Corn 65% emerged, stands fair to mostly good. Corn 5 in. high, 4 in. 1973, 6 in. average. Soybeans 40% planted, same as 1973, 70% average. Soybeans 35% emerged, stands fair to mostly good. Height 2 in. near average and 1973. Winter wheat headed, 25% beginning to ripen, South. Alfalfa hay 30% cut first time, same as 1973, average 40%. Pastures rated good.

IOWA: Temperatures averaged near to slightly below normal. Precipitation was well above normal, especially Central and East.

Fieldwork: 4.9 days suitable. Corn planted 93%, 1973 94%, normally completed. Corn emerged 82%, 1974 74%. Statewide 8% replanted or to be replanted. Soybeans planted 69%, 1973 72%, average

94%. Soybeans emerged 44%, 1973 42%. First crop alfalfa 15% harvested, yields mostly good. Oats headed 14%, crop condition 85 percent good to excellent. Clover hay 94% good to excellent. Weed control corn and soybeans fair to good. Topsoil moisture 56% adequate, 44% surplus. Heavy rain Saturday caused crop damage.

KANSAS: Temperatures 1° to 3° below normal. Precipitation heavy most sections with West getting most rains in some time. Rainfall 7th and 8th caused significant flooding in portions of Eastern and Northwestern Kansas. Severe weather hit State on four of seven nights with major tornado outbreak on 8th.

General rains past weekend. Wheat prospects improved for Northern areas. Mosaic and rust serious Central. Localized hail damaged various counties. All wheat headed, equal to 10-year average, year ago 95%. Wheat turned 55%, 25% 1973, 10-year average 50%. Few Southern border fields harvested. Corn virtually all planted, 90% 1973, average 95%. Corn acreage laid by 15%, 5% 1973, average 10%. Sorghum acreage planted 55%, same as average, a year ago 45%. Soybeans acreage 50% planted, last year 35%, average 55%. Alfalfa first cutting 90% harvested, last year and average 80%. Alfalfa second growth good. Livestock condition very good.

KENTUCKY: Mild and dry at start of week. Warm and humid with daily showers and thundershowers mid-week through end. Precipitation totals less than 0.50 in. much of East, over 2.00 in. extreme West. Temperatures near seasonal.

Flooded bottom lands causing extensive loss to already planted crop. Soil moisture excessive Western areas and ample throughout. Soybeans 40% planted, only limited progress last week. Farmers anxious to harvest small grain for double crop soybeans. Corn good condition, average height 11 in., most advanced fields averaging 20 inches. Barley 45% harvested. Wheat harvest not yet begun most areas. Tobacco about 80% set, well ahead last year. Pythium soft rot, flea beetles, and water damage common problems and necessitated some resetting.

LOUISIANA: Temperatures near normal. Extremes 93° Lafayette on the 9th and 58° Homer on the 3rd. Precipitation varied widely. Heavy thunderstorms extreme North late in week, totals 3.00 to over 6.00 in. Greatest 1-day total 4.08 in. Shreveport Saturday.

Cultivation, planting and vegetable harvest main activities. Soil moisture surplus Northern fourth, adequate elsewhere. Fieldwork: 4.4 days. Soybeans 75% planted, 55% last year, stands good. Sorghum 66% planted, slightly behind last year. Corn good, growth excellent, insects heavy some parishes. Cotton growth excellent, rain delayed cultivation, causing weed and grass problems. Sugarcane growth good. Herbicide and fertilizer application active. Heavy border infestation several parishes. Rice good to excellent, early rice heading. Wheat and oats 65% harvested. Tomato harvest heavy in South, light in North.

MARYLAND AND DELAWARE: Temperatures 1° to 6° below normal. Highs upper 70's to low 80's except 73° Garrett County. Lows mid 40's to mid 50's. Precipitation all areas ranged 0.75 to 2.50 in. Heaviest Central Eastern Shore and Delaware.

Field activity light until fields dried. Corn 97% planted, 93% 1973, 94% average. Soybean planting slow 44%, 58% 1973, average 52%. Barley combining started. Wheat nearly ripe in South.

Armyworms still problem. Tobacco setting about normal 44%. Hay harvested hampered by rain. Apple and peach orchards still in June drop. Strawberry picking continues Central and North. Processing peas 15% harvested, asparagus 80% cut.

MICHIGAN: Temperatures averaged 4° to 8° above normal lower peninsula, near normal Southern upper and 4° to 6° above Northern and Eastern upper. Highs in 80's 4th through 6th. Precipitation totals around 0.50 to 1.00 in. extreme lower and Western upper to 2.00 in. to 4.00 in. Western lower and Eastern upper.

Warmer weather improved crop growth. Good progress with fieldwork. Soil moisture mostly adequate. Fieldwork averaged 4.8 days. Corn 89% planted, 1973 68%, average 93%. Soybeans 65% planted, 1973 30%, average 71%. Dry beans 22% planted, 1973 4%, average 31%. Potato planting about finished. Winter wheat good growth, 31% headed. Oats and sugarbeets growing well. Hay making underway. Pasture feed supplies about average. Tart cherry and pear set light to average, peach set good, apple set average. Asparagus 66% harvested.

MINNESOTA: Temperatures averaged above normal 2 to 5 days with a few afternoon highs near 90° Southwest. Precipitation continued on 4 out of 7 days with totals well above normal except for Northwest where just below. Weekly totals 1.00 to 4.00 in. with greatest amounts North Central, South Central and Southeast districts.

Wet conditions continued to delay start of planting in several important small grain producing counties in the Red River Valley. Elsewhere row crop and small grain planting virtually completed. Corn 97% planted, about same as average and last year. Soybeans 85% planted, last year 96%, average 89%. Spring wheat 75% seeded, average 93%. Barley 65% seeded, average 94%. Flaxseed 70% seeded, average 87%. Sugarbeets 95% planted, average 87%. All potatoes 59% planted, average 83%. Sweet corn 78% planted, average 90%. First cutting alfalfa hay 15% cut, average 17%.

MISSISSIPPI: Scattered showers and thunderstorms occurred daily many counties except 3rd and 4th. Average temperatures from about 6° cooler than usual in northern Mississippi to near normal along the Gulf Coast. Extremes were 92° at Corinth on 6th and 53° at Holly Springs on 3rd.

Soil moisture surplus to excessive northern two-thirds of State and mostly adequate remainder. Fieldwork: 2.2 days suitable. Soybeans 46% planted, 55% 1973. Soybeans 45% up to stand, 43% a year ago. Corn 90% planted, equal to 1973. Sweetpotatoes 60% planted, 65% a year ago. Wheat 28% harvested, 45% 1973. Oats 37% harvested, 55% 1973. Hay 19% harvested. Cotton 3% squaring, 2% 1973.

MISSOURI: Temperatures averaged around 5° below normal and rainfall was much above normal. Total weekly rainfall 5:00 to 7:00 in. in southwest Missouri to 1.00 to 2.00 in. or more elsewhere except a few local areas. Heavy rains caused local flooding on many smaller tributary streams. The Missouri and Mississippi Rivers are again forecast to go above flood stage during the week. Sunshine limited to less than half normal and daily maximum temperatures mostly in the 70's.

Fieldwork: 1.5 days suitable. Corn 84% planted, 80% normal. Soybeans 38% planted, 33% 1973, 48% normal. Grain sorghum 51% planted. Winter wheat 68% turning color, 50% 1973. First cutting alfalfa 59% harvested, 67% normal. Soil moisture surplus.

MONTANA: Temperatures near normal to 7° below. Highest in 70's and lower 80's. Precipitation below normal except south central and southeast. All stations reported precipitation, with nearly 3 in. south central.

Grain crops mostly in good condition. Winter wheat 40% boot. Topsoil moisture adequate except west of Divide. Planting corn 90% complete, potatoes 95%, and dry beans 85%. Winter wheat mostly good. Spring seeded grain crops fair to good condition. Livestock 85% moved to summer ranges.

NEBRASKA: Temperatures below normal. Precipitation in trace amounts to 7.00 in. in southwest to northeast.

Winter wheat 100% headed, 25% turned compared to normal 15%. Corn mostly good condition; some corn 10-14 in. high. Sorghum 90% planted, same as previous year, near normal. Soybean crop 85% planted. 91% 1973 and near normal. First cutting alfalfa 75% harvested. Wild hay mostly good. Fieldwork: 5.5 days suitable. Topsoil moisture supplies 4% surplus, 69% adequate, 27% short. Subsoil moisture supplies 1% surplus, 83% adequate, 16% short. Pasture and range feed supplies mostly adequate. Some sandhills and panhandle regions short supply.

NEVADA: Temperatures averaged near normal. 103° Las Vegas to 19° Mountain City. Precipitation nil except for trace Ely and Battle Mountain.

Fall and spring planted crops fair condition. Growth and development improved by warmer weather. Spraying for alfalfa weevil continues. Range feed poor to fair.

NEW ENGLAND: High pressure dominated most of week bringing mostly fair, late spring conditions with the exception of rather cool temperatures along coast. Precipitation was at a minimum: Burlington, Vt. reported .22 in. Lowest reading was 30° at Houlton, Me., Friday morning. Week's highs were 90° at Concord, N.H. on Wednesday, 91° at Boston and Concord, and 92° at Hartford, Conn. on Sunday.

Over 50% silage corn planted; Hay and haylage being made most areas. Livestock on pasture. Apple and cranberry crop prospects good. Strawberry prospects very good, harvest to start southern areas. Potato acreage 80% planted, Aroostook Co., Me. Southern area potatoes up 6 in., development slow.

NEW JERSEY: Temperatures averaged 1 degree below normal in northern and central counties, and 2 degrees below normal in south. Extremes were 88° at Hammonton on 9th and 42° at Pemberton on 5th. Rainfall averaged 0.08 in. north, 0.03 inches in central and 0.08 inches in south. Highest daily total 0.25 in. Charlotteburg on 4th. Soil moisture expressed in percent of field capacity as of June 10 averaged 69% north, 61% central, 65% southern counties.

Five to six days suitable for field work. Topsoil moisture adequate. Corn planting virtually complete. Late soybean planting awaiting harvest fall grains. Vegetable crops showing good growth. First cutting hay in full swing. Small grains maturing nicely.

NEW MEXICO: Hot and dry through midweek except a few local showers northeast and east central. Rains with the storm eastern portion of northern mountains and northern portion of northeast plains. Several precipitation reports from Taos east and from Clayton north over an inch with some totals ranging to 3.00 and 4.00 in. Continued dry elsewhere. Mean temperatures 4° to 7° below normal north to a little above normal south.

Moisture, very short. Drought, some northern and southwest areas. Cotton, fair to good,

stands fair to good. Spider mite and western flower thrip damage in southeast counties. Alfalfa good, first cutting 60% complete north, virtually complete south; second cut, 20% complete south, just starting north. Irrigated grain sorghum planting, 90% done. Irrigated wheat harvest, 10% complete. Irrigated corn, fair to good, stands normal. Vegetables good, cultivation active. Onion harvest starting Mesilla Valley. Ranges poor. Cattle sheep fair, lack of stock water in a few areas.

NEW YORK: Temperatures below normal first of week. Midweek warming trend began sending temperatures to 80's. Minimum temperatures upper 40's to mid 50's. Rainfall limited to scattered showers and few isolated thunderstorms. Eastern shores of Lake Ontario continued dry. Need soaking rain.

Dry, warm most of week, most favorable week current season. Moisture adequate except southern and far western counties. Corn planting 80% done. Growth, color early planted corn improved. Oats good condition, late seeding continues. Wheat growing well, good to excellent all areas. Haymaking underway, 8% first cutting harvested. Weevil damage appears widespread. Pastures good condition. Dry bean planting 35%. Long Island potatoes growing well, spraying for Colorado potato beetle. Orange County onions developing well but slow. Iceberg, lettuce prospects favorable Erie, Chautauqua and Niagara areas harvesting Bibb and Boston lettuce. Tomato planting delayed, plants not available. Western New York apple prospects good. Pears variable with frost damage. Strawberry picking underway Long Island.

NORTH CAROLINA: Temperatures below normal during week as cold front moved through State accompanied by scattered showers and thunderstorms. Heaviest rainfall southeast. New Bern received 3.35 in. of rain Saturday and Sunday.

Fieldwork: 3 days favorable. Corn planting nearly complete, condition good. Soybeans 71% planted, unchanged from 1973. Sorghum 58% planted, 50% last year. Sweet potatoes 67% set, 59% last year. Burley 93% set. Small grain harvest getting underway. Pasture and hay crops good. Peaches fair, harvest beginning few varieties.

NORTH DAKOTA: Temperatures west central, southwest and south central divisions below normal, elsewhere at or above normal. Highs 92° at Rugby to 60° at Dunn Center. Lows 35° at Dickinson to 67° at Wampeton. Precipitation below normal with southwest driest. Devils Lake reported most, 1.24 in. for week, 0.90 in. last Monday. Weekend generally warm with scattered showers across State.

Seeding of crops nearing completion southern areas. Northern counties now beginning to make progress. Pasture and hay growth progressing well. Range cattle good condition.

OHIO: All reporting stations recorded measurable rainfall; from 0.03 in. to 0.93 in. Hail and wind gusts to 73 mph near Columbus on 6th. Temperatures from high of 88° to low of 48°.

Wheat nearly 95% headed, 40% 1973, 70% normal. Some wheat turning. Oats 20% headed. Soybeans 95% planted, 40% 1973, 70% normal. Tobacco setting 55% complete, 30% 1973, 50% normal. Corn stands reported mostly good. Soybean stands fair to good. Six days favorable fieldwork. Moisture supplies adequate to surplus.

OKLAHOMA: Temperatures averaged 1° to 4° below normal. Precipitation averaged from near 1.00 in.

to near 4.00 in. Weekend stormy with numerous tornadoes reported central and northeastern.

Rains slowed wheat combining as bulk crop ready to harvest. Twenty percent acreage harvested, slightly behind average, but well ahead of year ago. Southwest area nearly half cut. Yields mostly below earlier expectations, but quality mostly good. Barley acreage 25% combined wide range yields. Row crop seeding slow progress, condition generally improved. Cotton replanting necessary southwest. Sorghum 75% planted, 66% average. Cotton 92% planted, ahead of average and 1 week ahead year ago. Peanuts in good condition, 50% crop up and near 80% planted. Soybean planting 66% done, ahead of normal. Second cutting alfalfa ready, favorable haying weather needed. Moisture adequate to surplus all areas except panhandle. Condition of range grasses and cattle at high level.

OREGON: Temperatures normal. Highs reached upper 80's south, 70's north. Rain fell in all areas, heaviest mid-week. Northern coastal locations received up to 2.00 in.

Haymaking plagued by cool wet weather. Wheat heading. Barley turning color. Green pea harvest nearing. Snap bean, sweet corn planting back on schedule. Strawberries ripening, not sizing well. Cherry fruit fly emerged. Filbert clusters showing.

PENNSYLVANIA: Warm dry week. Precipitation occurred extreme West. Temperatures near normal East, 2° above Central, 3° to 6° above West. Daytime highs: 70's and 80's, low's 40's and 50's. Extremes: 93° and 40°.

Soil moisture adequate 70%, short 25%. Barley 75% headed, 25% turning yellow. Winter wheat 95% headed. Oats 95% boot or pre-boot. Corn average height 4 in., wireworm and rootworm damage reported. First cutting alfalfa 30% harvested. Hay quality good. Strawberry harvest underway South.

PUERTO RICO: Rainfall averaged .76 in. or 0.84 in. below normal. Highest weekly total rainfall 8.28 in. at Coloso followed by 3.94 in. at Borinquen Airport. Highest 24-hour total 3.25 inches at Coloso. Divisional temperatures averaged about 79° on coasts and 74° interior. Extremes: 93° to 55°.

Brief showers have fallen, not enough to stimulate good development of sugarcane. Rain deficit continues to be a factor in the cultivation of coffee. Tobacco drying continues. Pastures seriously affected by drought, but eased where some rain has fallen. Food crops also continue to be seriously affected.

SOUTH CAROLINA: Temperatures averaged 3 to 6° below normal. Rainfall averaged above normal most sections.

Soil moisture generally adequate. Most crops responding well to favorable weather. Cotton condition fair to good. Corn condition good depending upon amount of nitrogen applied. Soybeans 75% planted. Wheat 84% ripe, 48% harvested. Oats 88% ripe, 53% harvested. Rye 85% ripe, 52% harvested. Barley 89% ripe, 54% harvested. Harvesting early variety peaches all areas.

SOUTH DAKOTA: Temperatures in upper 80's and 90's beginning of week--cooler Thursday through weekend under cloudy, rainy skies. Extremes: 98° at Porcupine, 34° at Oral. Widespread rainfall--1.00 to 2.00 in. common in southeast and extreme south central drought conditions continue in southwest.

All winter wheat and rye in or past boot stage. Winter wheat 78% headed. Spring wheat 40%, barley 45%, and oats 47% in or past boot stage, all ahead of normal. Early spring grains have started to

head. Corn growth normal, 35% cultivated. Soybeans 90%, sorghum 65% planted. First cutting of alfalfa 15% complete, favorable yields expected. Heavy infestation of wild oats and weeds in most fields, most crop spraying completed. Stock dams continue to be low or dry. Pastures made rapid growth. Flies becoming troublesome to livestock.

TENNESSEE: Warm front midweek brought heavy rains to mid and west areas. Rainfall averaged 3.00 in., many stations received over 6.00 in. Bolton reported 10.68 in. with 6.06 in. on Friday, Covington reported 7.91 in. with 3.67 in. on Friday. Temperatures averaged near normal. Extremes: 87° at Nashville and 56° at Bristol.

Ninety percent of intended acreage of cotton planted, 95% 1973, normal 100%. Growth slow. Many fields grassy, weedy and need cultivation. Planting corn near standstill last week; 80% planted, same as last year, normal 90%. Soybeans 25% planted, lowest of record for date, normal 70%. Nearly 90% wheat, oats and barley yellow or turning, few days earlier than normal. Wheat 40% ripe and oats 30%. Tobacco transplanting 85% complete.

TEXAS: Scattered afternoon nighttime showers and thunderstorms dominated northern half Texas early week. Cold front 6th triggered more showers thunderstorms latter portion week. Weekly rainfall totals northern eastern portions 2.00 to 4.00 in. above normal. Rainfall near normal high plains, below normal elsewhere. Average temperatures across State 2° to 4° above normal.

Wheat, oat harvest good progress across State. Some excellent yields reported, most yields well below normal. Planting cotton, sorghum, peanuts, and soybeans, excellent progress. Rain, hailstorms damaged destroyed large acreages cotton, sorghum, wheat and oats high and low plains. Extensive replanting necessary. First fields sorghum harvested south Texas lower Rio Grande Valley yield prospects excellent. Major crops percent harvested: Wheat 1974, 32, 1973, 12; Oats 1974, 76, 1973, 53; Barley 1974, 52, 1973, 37; Flax 1974, 100, 1973, 100. Percent planted: Cotton 1974, 89, 1973, 94; Grain sorghum 1974, 82, 1973, 90; Rice 1974, 100, 1973, 96; Peanuts 1974, 61, 1973, 51; Soybeans 1974, 59, 1973, 66. Lower Rio Grande Valley: Tomatoes, okra, and squash are available in fair volume. Watermelon and cantaloupe still being harvested. Light supplies carrots and cabbage available. Onion harvest complete, except late varieties. Coastal Bend: Watermelon harvest past peak. Cucumber and squash picking near complete. Sweet corn harvest about complete. Laredo: All vegetables harvested except watermelons. San Antonio-Winter Garden: Watermelon harvest full swing. Potatoes still moving. Cucumbers and squash still being harvested. Onion harvest is slowing and some fields being plowed up due low market. Central Texas: Tomato harvest continues. Watermelons show good development. East Texas: Tomatoes being harvested. Sweetpotatoes 90% set. Potatoes, green beans, being harvested. Knox-Haskell: Potato harvest still in progress. Trans-Pecos: Onion lettuce 50% harvested. Cantaloupes normal development. High Plains: Potatoes beginning bloom, onions, cabbage good development. Hail damage half county. Severe storms high plains generally missed most major vegetable growing areas. Peach harvest continues. Heavy populations walnut caterpillars appearing. Spraying continues for this pest, web worms, casebearers. Range livestock both good to excellent condition. Trans-Pecos: Reduced grazing. Ranchers drenching sheep Edwards Plateau

checking screwworms. Hay baling active, yields first two cuttings good to excellent.

UTAH: Recurring rain in valleys and snow in higher mountains of north during latter part of last week with accumulated moisture light to moderate except locally heavy few localities. Little or none south half. Average temperatures normal from 2 to 11 degrees.

Irrigated crops made good progress with favorable growing weather. Dry beans 70% planted. Potato planting nearing completion. Sugarbeet thinning 60% completed. First crop alfalfa 15% harvested, yield prospects good. Condition of spring grains generally good, development varies widely, harvesting underway Washington County. Condition of commercial vegetable crops fair to mostly good. Green pea harvest will start about June 20 in Davis and Box Elder Counties. Cattle and sheep mostly in good condition, movement to summer ranges starting. Feed prospects on southern ranges poor unless moisture received. Water short on southwest ranges and ranchers starting to haul water.

VIRGINIA: Fair weather 3rd through 6th, cloudy 7th and 8th with light rain and drizzle east of Blue Ridge. Sunny and very warm Sunday. Daytime high's in the 70's mountainous and coastal sections, elsewhere 80's. Nighttime low's 40's west and 60's east. Extremes 89° and 43°.

Fieldwork: 4.0 days. Soil moisture 84% adequate, 13% surplus, 9% short. Soybeans 55% planted, 1973, 57%. Transplanting tobacco: Flue-cured 90% complete, fire-cured 71%, burley 74%, sun-cured, 70%. Armyworms problem in sod planted corn. Barley 4% harvested. Small acreage wheat and oats harvested. Hay getting too mature, yields improved.

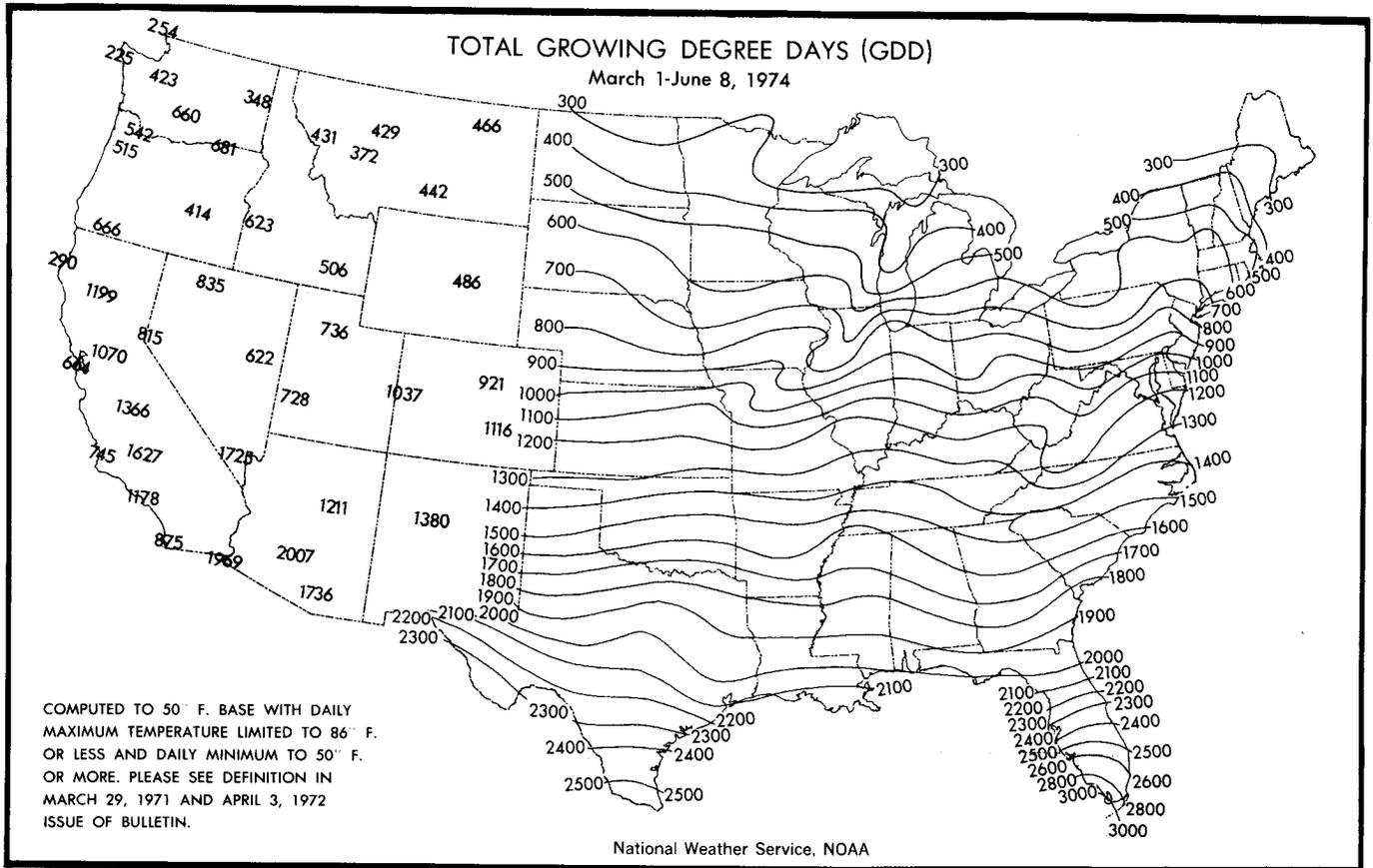
WASHINGTON: West: Average temperature or slightly below. Precipitation 3.00 to 2.00 in. Berry crops good, concern over possible fruit rot, isolated fire blight and fruit tree disease. Squash, corn, cauliflower, cucumbers coming up slowly. Vegetable crop plantings continue as weather permits. Rains reduced herbicide application effectiveness. Silage and hay harvest continues.

East: Temperature ranges: High's 60's and 70's, low's 40's and 50's. Rain 0.03 to 1.50 in. Asparagus harvest slowed by rain, cool temps. Beans, pasture, alfalfa and potatoes being planted. Growth of sweet corn and other crops delayed. First cutting alfalfa hay active, but hampered by rain. Peas, lentils, bluegrass reported in good condition. Wheat in good condition. Isolated frost damage, food rot and scattered yellowing due to nitrogen deficiency indicated. Cherries showing signs of red cherry and apple drop occurring with cherry drop somewhat excessive. Pasture growth slow but improving.

WEST VIRGINIA: Temperatures averaged near normal. Unseasonably cool first of week but warming to above normal over entire State by mid-week. Rainfall generally below normal most of State, a few sections got above normal in heavy showers.

Soil moisture mostly adequate, few reports of surplus. Fieldwork: 3.9 days favorable. Haymaking and gardening major activities. One-fifth first cutting of hay completed. Most crops, hay and pasture fair to good condition. Tobacco transplanting active. Wheat and barley mostly in heading stage. Barley almost ready to combine.

WISCONSIN: Warm, very wet week. Temperatures 2° to 3° above normal; highest in 80's, nighttime low's



warmest of the season. Rainfall exceeded 2.50 inches in all districts with some localities reporting over 4.00 inches. Heaviest rain Sunday with some severe storms.

Crops developing well with warmer temperatures and abundant moisture. Corn 92% planted, 1973 80%, normal 95%. Low fields in south central and southeast too wet to be planted for corn. Soybean planting 55% done, 1973, 50%, normal 75%. Planting main soybean growing areas running late. Oats doing fine. Winter wheat very good, some lodged and showing effect of too much moisture. Hay harvest yields up, 5% cut, normal 10%. Vegetable crops improved with warmer temperatures. Fruits had good bloom this spring. Soil moisture mostly surplus.

WYOMING: Precipitation widespread over State with most stations getting measurable amounts. Most drainage areas varied from below normal to above normal. Temperatures slightly below normal to normal with highs mid 70's to upper 80's with few 90's. Low's mid 20's to low 40's.

Improved soil moisture brightened outlook for crops, rangeland southeast. Dry beans 70% planted, 20% emerged. Potatoes 95% planted, 60% emerged. Corn 75% emerged. Sugarbeets 25% thinned. Winter wheat 40% headed. Stands of oats, barley, spring wheat, corn, sugar beets reported fair to good. Irrigation continued. Livestock good condition. Ranchers continued to move livestock to summer ranges. Rains improved prospects for summer grazing, stock water supplies.

Standard copy for the Weekly Weather and Crop Bulletin is prepared by: Richard E. Felch, Lyle M. Denny, Orus W. Byrd, National Weather Service, NOAA; DeLon Brown, Nancy Burt, Statistical Reporting Service, USDA.

Heating Degree Days (Base 65° F.)

May 1974

ALA. Birmingham	9	MAINE, Caribou	609	OKLA. Okla. City	8
Mobile	0	Portland	444	Tulsa	5
Montgomery	0	MD. Baltimore	148	OREG. Astoria	445
ALASKA, Anchorage	526	MASS. Boston	335	Burns U.	453
Barrow	449	Nantucket	417	Medford	267
Fairbanks	414	MICH. Alpena	517	Pendleton	241
Juneau	556	Detroit	308	Portland	282
Nome	823	Flint	344	Salem	371
ARIZ. Flagstaff	310	Grand Rapids	364	PA. Allentown	216
Phoenix	0	Houghton Lake	463	Erie	373
Tucson	5	Lansing	359	Harrisburg	133
Winslow	77	Marquette U.	535	Philadelphia	128
Yuma	2	S. Ste. Marie	558	Pittsburgh	223
ARK. Fort Smith	6	MINN. Duluth	565	Scranton	291
Little Rock	4	Internatl Falls	539	R. I. Providence	313
CALIF. Bakersfield	20	Minneapolis	338	S. C. Charleston	2
Eureka U.	423	Rochester	350	Columbia	7
Fresno	33	St. Cloud	418	Greenville	54
Los Angeles U.	31	MISS. Jackson	1	S. DAK. Aberdeen	390
Red Bluff	52	Meridian	0	Huron	346
Stockton	47	Vicksburg U.	---	Rapid City	343
San Diego	55	MO. Columbia	129	Sioux Falls	303
San Francisco	270	Kansas City	84	TENN. Chattanooga	65
COLO. Denver	137	St. Louis	101	Knoxville	41
Grand Junction	66	Springfield	64	Memphis	1
Pueblo	60	MONT. Billings	443	Nashville	28
CONN. Bridgeport	219	Glasgow	436	TEX. Abilene	0
Hartford	287	Great Falls	477	Amarillo	17
D. C. Washington	85	Havre	437	Austin	0
FLA. Apalachicola	0	Helena	500	Beaumont	0
Ft. Myers	0	Kalispell	510	Brownsville	0
Jacksonville	0	Miles City	389	Corpus Christi	0
Key West	0	Missoula	505	Del Rio	0
Lakeland U.	0	NEBR. Grand Island	91	El Paso	5
Miami	0	Lincoln	139	Fort Worth	1
Orlando	0	Norfolk	147	Galveston U.	0
W. Palm Beach	0	North Platte	190	Houston	0
Tallahassee	0	Omaha	140	Lubbock	11
Tampa	0	Valentine	243	Midland	1
GA. Atlanta	5	NEV. Ely	373	San Angelo	1
Augusta	8	Las Vegas	18	San Antonio	0
Macon	4	Reno	310	Victoria	0
Savannah	1	Winnemucca	263	Waco	0
IDAHO, Boise	304	N. H. Concord	432	Wichita Falls	1
Lewiston	268	N. J. Atlantic City	184	UTAH, Blanding R	---
Pocatello	359	Trenton U.	164	Salt Lake City	214
ILL. Cairo U.	28	N. MEX. Albuquerque	29	VT. Burlington	461
Chicago	272	Roswell	11	VA. Lynchburg	105
Moline	235	N. Y. Albany	343	Norfolk	63
Peoria	214	Binghamton	384	Richmond	75
Rockford	277	Buffalo	365	Roanoke	96
Springfield	167	New York	186	WASH. Colville	431
IND. Evansville	71	Rochester	352	Omak	---
Fort Wayne	238	Syracuse	339	Quillayute	513
Indianapolis	158	N. C. Asheville	83	Seattle-Tacoma	306
South Bend	250	Charlotte	36	Spokane	455
IOWA, Burlington	205	Greensboro	59	Walla Walla U.	227
Des Moines	189	Hatteras R.	28	Yakima	329
Dubuque	327	Raleigh	48	W. VA. Beckley	198
Sioux City	126	Wilmington	23	Charleston	115
KANS. Concordia	82	N. DAK. Bismarck	440	Huntington	109
Dodge City	62	Fargo	431	Parkersburg U.	145
Goodland	148	Williston U.	447	WIS. Green Bay	413
Topeka	64	OHIO. Akron-Canton	241	Madison	347
Wichita	42	Cincinnati U.	161	Milwaukee	448
KY. Lexington	128	Cleveland	280	WYO. Casper	416
Louisville	99	Columbus	178	Cheyenne	304
LA. Baton Rouge	0	Dayton	198	Lander	415
Lake Charles	0	Toledo	295	Sheridan	462
New Orleans	0	Youngstown	288		
Shreveport	2				

Preliminary reports from airport locations, except those marked U for urban and R for rural.
*Estimated.

WEATHER - MAY

HIGHLIGHTS: A month of extremes with exceptionally dry conditions over the Southwest and in southern Florida while heavy precipitation, beginning at midmonth, drenched the Corn Belt.

Temperatures averaged 3° to 6° above normal in the Southwest and above normal in the Southeast. The northern half of the Country was colder than expected.

The drought in the Southwest generally intensified and spread to the north and east. Virtually no rainfall occurred in New Mexico, Arizona, Colorado, Utah, Nevada, southern Idaho, or California.

TEMPERATURE: Readings averaging 6° or more above normal intensified the drought situation in the Southwest. The northern half of the Country averaged below normal, although conditions varied widely during the month.

The month began with generally above normal temperatures. Below normal temperatures were confined to the New England area and a narrow, meandering band across the Great Plains. However, by the end of the first decade, the eastern half of the Nation had cooled markedly.

Temperature patterns changed markedly during the following week. The east warmed to well above normal; the western States were much colder. On the morning of the 14th, temperatures were 15° to 25° below seasonal norms over the northern Rockies and Great Plains.

During the week ending the 26th, mild temperatures dominated except over the Rocky Mountain States and northern Great Plains, and over New England. Unseasonably cold weather spread from the northern Rockies through the southern Plateau

on the morning of the 20th. The lowest temperatures ever for so late in the season were recorded at several locations: Tucson, Ariz., 44°; Winslow, Ariz., 31°; and Grand Junction, Colo., 34°.

The month ended with East Coast temperatures well below normal, but well above norms west of a line from central Texas to Nebraska. Wichita, Kans., recorded 96° on the 30th. Warm and very humid weather covered the Southeast as readings reached in the high 80's and low 90's.

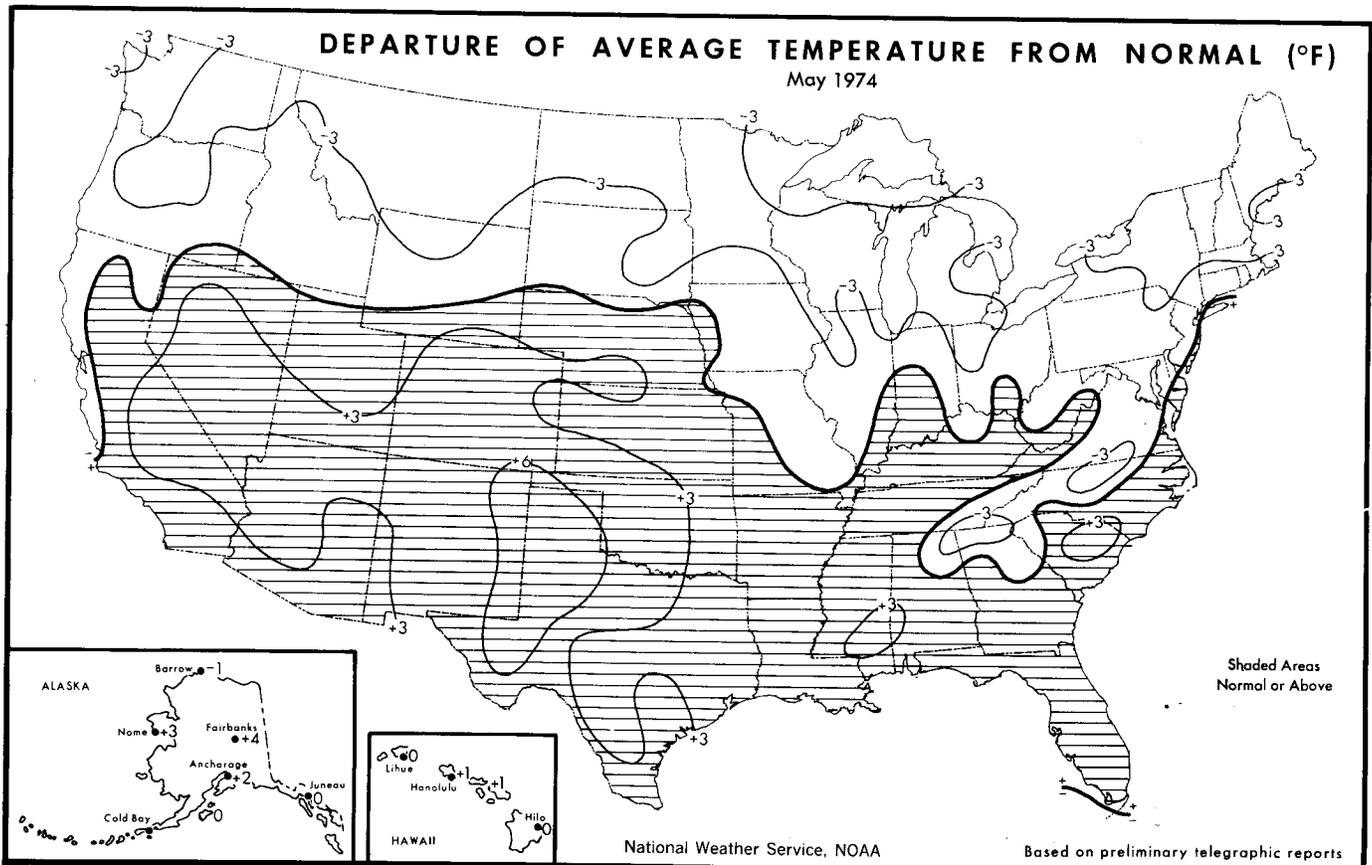
PRECIPITATION: From the eastern Rockies westward, extremely dry conditions persisted. Precipitation was generally above normal to the east. Moisture across the Corn Belt was almost twice the norm, most of it coming after the 10th.

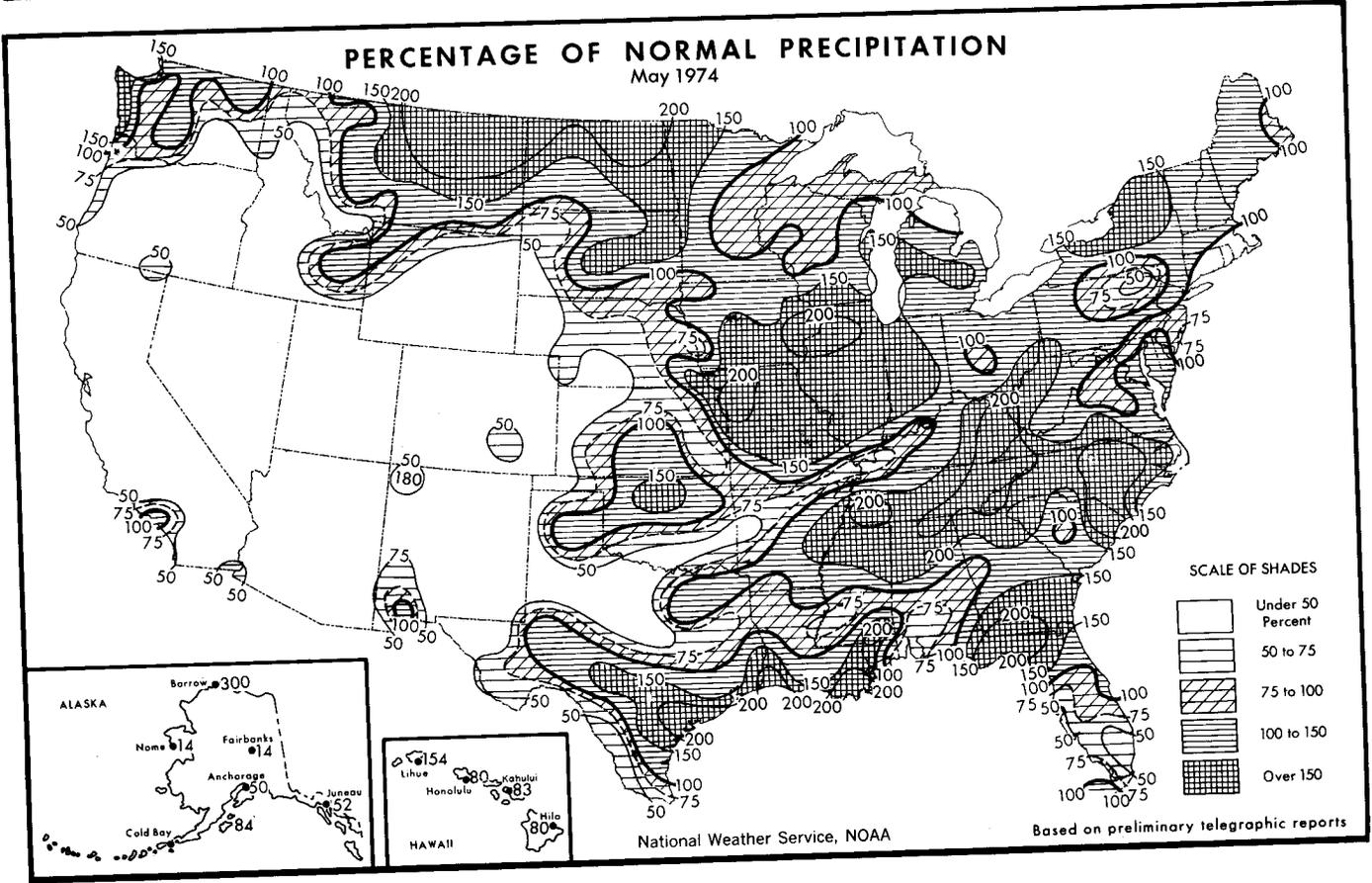
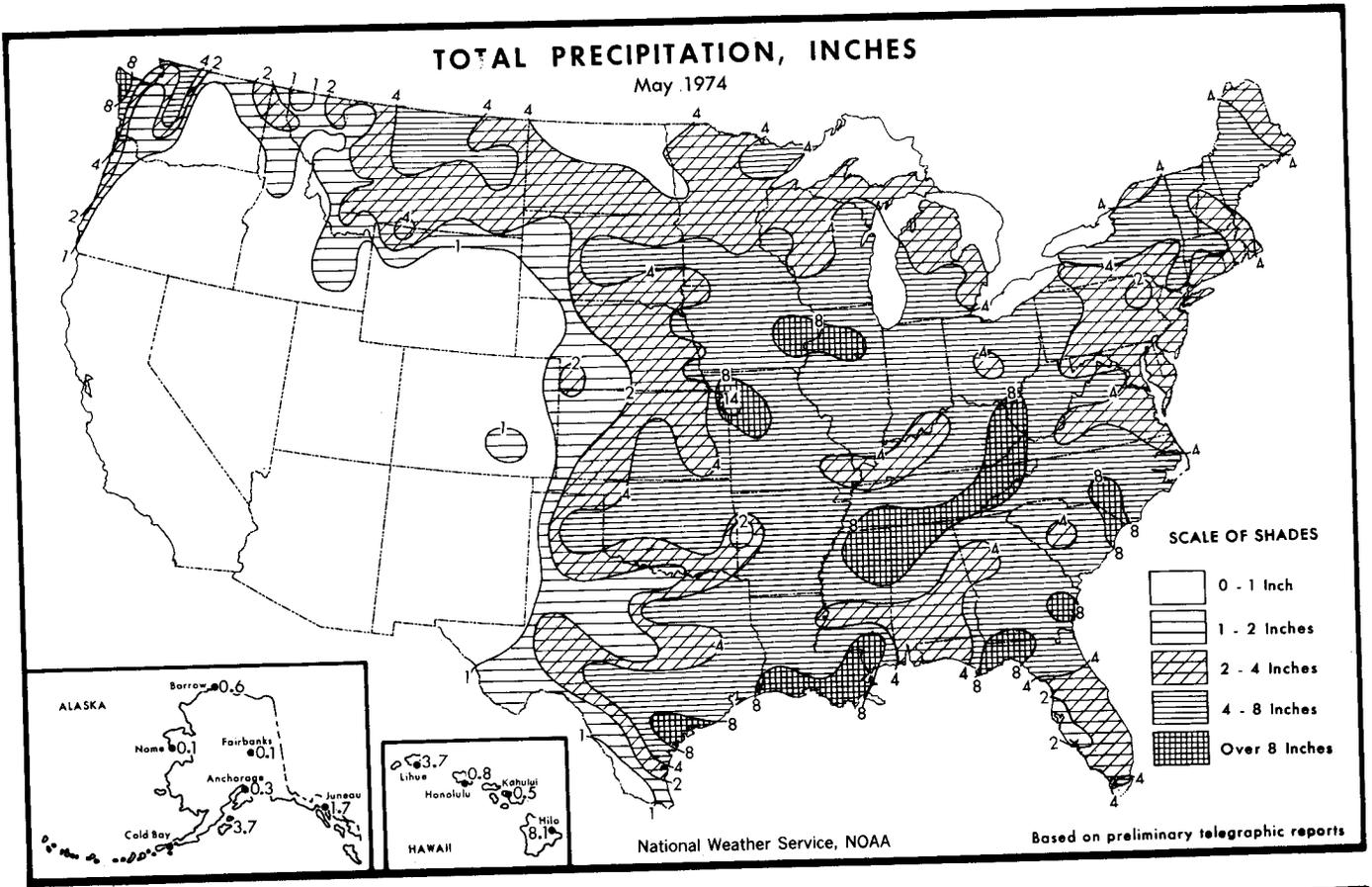
The first week was generally dry. The only band of exceptionally heavy precipitation was in central Texas up through Oklahoma. Over 5.00 in. fell along the Texas-Oklahoma border.

During the week ending the 12th, heavy precipitation fell in parts of Texas, the Gulf Coast and parts of Ohio, Pennsylvania, and West Virginia. Some totals were: Akron, Ohio, 2.46 in.; Syracuse, N.Y., 2.49 in.; parts of south-central Texas, over 8.50 in. Tornadoes struck in several areas; Kile, Garfield, and Lake Thomas, Texas; Hillsdale, Mich.; and Glenville, and Savannah, Ga.

From 2.00 in. to 8.00 in. drenched the Corn Belt during the following week. Locally heavy amounts included: Edgerton, Mo., 8.00 in.; Des Moines, Ia., 3.73 in.; Peoria, Ill., 2.93 in.; and Topeka, Kans., 2.14 in.

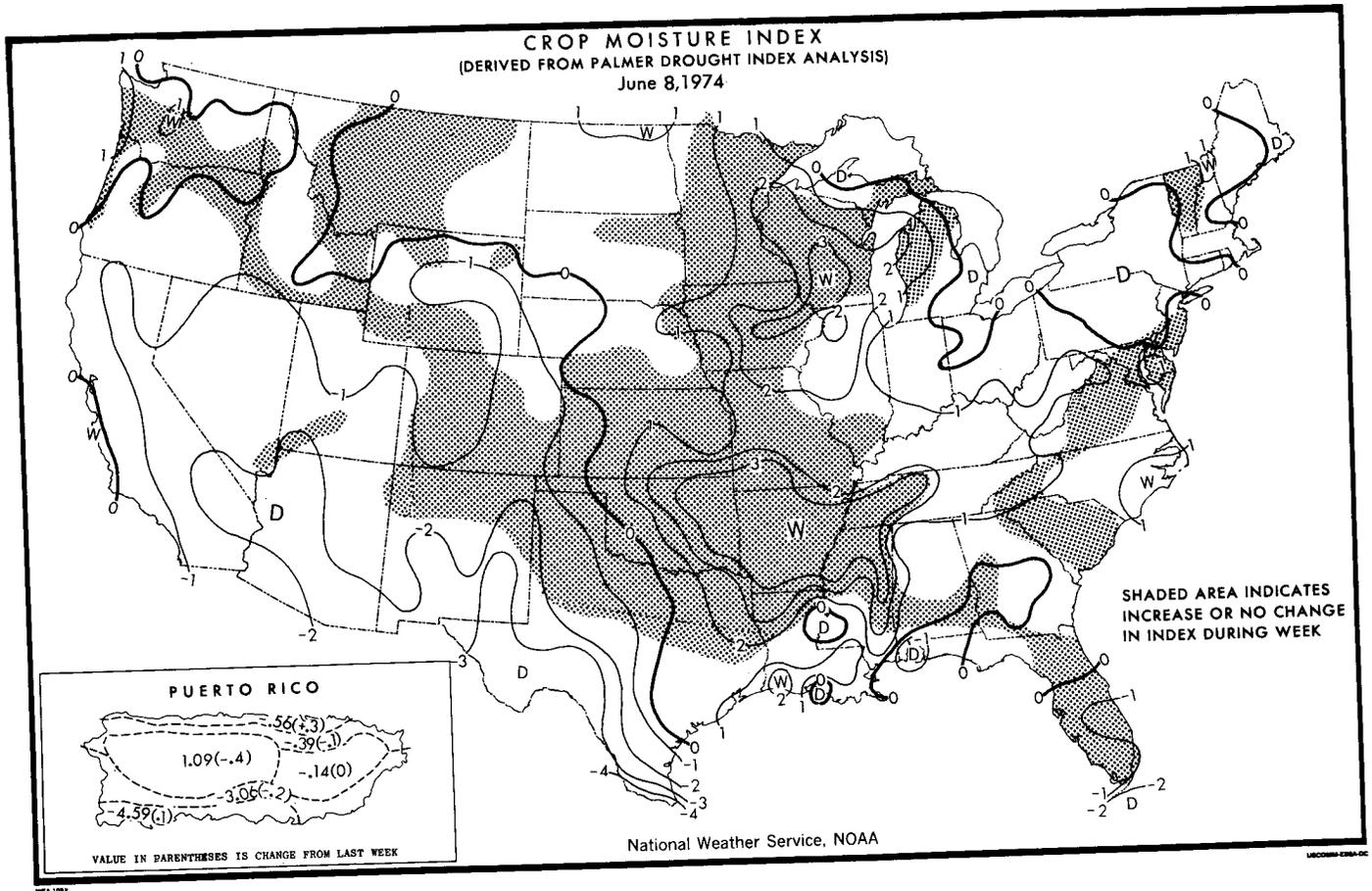
The final decade remained dry in the West, but heavy precipitation continued in the southern States, the northern Plains and parts of the Corn Belt.





Temperature and Precipitation Data for May, 1974

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 . . .	71	0	5.4	+ 1.8	La. Baton Rouge . . .	77	+ 2	5.2	+ .8	Youngstown . . .	56	- 2	4.7	+ .8
Mobile . . .	76	+ 1	2.3	- 2.2	Lake Charles . . .	76	+ 1	11.0	+ 5.9	OKLA. Okla. City . . .	72	+ 4	5.0	- .2
Montgomery . . .	73	+ 1	3.3	- .2	New Orleans . . .	76	+ 1	9.8	+ 5.6	Tulsa . . .	72	+ 3	6.9	+ 1.8
ALASKA. Anchorage . . .	48	+ 2	.3	- .3	Shreveport . . .	74	+ 1	4.6	+ .4	OREG. Astoria . . .	51	- 1	4.4	+ 1.7
Barrow . . .	18	- 1	.6	+ .4	MAINE. Caribou . . .	45	- 5	3.6	+ .6	Burns . . .	50	- 2	.1	- .9
Fairbanks . . .	51	+ 4	.1	- .6	Portland . . .	51	- 2	4.2	+ .9	Medford . . .	56	- 1	.2	- 1.2
Juneau . . .	47	0	1.7	- 1.5	MD. Baltimore . . .	62	- 2	3.6	0	Pendleton . . .	57	- 2	.3	- .8
Kodiak . . .	43	0	3.7	- .7	MASS. Boston . . .	55	- 4	2.9	- .6	Portland . . .	56	- 1	1.7	- .4
Nome . . .	38	+ 3	.1	- .6	Chatham . . .	47	- 4	4.1	- .1	Salem . . .	53	- 3	.9	- 1.2
ARIZ. Flagstaff . . .	55	+ 5	T	- .6	MICH. Alpena . . .	48	- 3	2.6	- .1	PA. Allentown . . .	59	- 1	3.9	+ .1
Phoenix . . .	80	+ 4	0	- .1	Detroit . . .	55	- 3	3.5	+ .2	Erie . . .	53	- 2	4.4	+ .8
Tucson . . .	74	0	0	- .1	Flint . . .	54	- 2	5.5	+ 1.4	Harrisburg . . .	63	0	4.4	+ .6
Winslow . . .	65	+ 2	0	- .3	Grand Rapids . . .	53	- 4	4.0	+ .8	Philadelphia . . .	62	- 1	3.2	- .2
Yuma . . .	79	0	T	0	Houghton Lake . . .	50	- 3	2.9	+ .1	Pittsburgh . . .	58	- 2	5.4	+ 1.8
ARK. Fort Smith . . .	72	+ 2	1.9	- 3.6	Lansing . . .	54	- 3	4.1	+ .8	Scranton . . .	56	- 3	1.9	- 1.9
Little Rock . . .	71	+ 1	6.3	+ 1.0	Marquette . . .	48	- 2	2.5	- .4	R.I. Providence . . .	56	- 1	2.7	- .8
CALIF. Bakersfield . . .	73	+ 3	T	- .2	Muskegon . . .	52	- 3	4.1	+ 1.4	S.C. Charleston . . .	74	+ 2	4.8	+ 1.0
Eureka . . .	51	- 2	.4	- 1.7	S. Ste. Marie . . .	47	- 2	2.3	- .7	Columbia . . .	75	+ 3	3.4	0
Fresno . . .	70	+ 3	0	- .3	MINN. Duluth . . .	47	- 2	3.1	- .3	Greenville . . .	68	- 1	5.5	+ 2.5
Los Angeles . . .	66	+ 1	.1	0	Internat'l Falls . . .	47	- 3	3.2	+ .4	S.D. Aberdeen . . .	54	- 2	3.8	+ 1.2
Red Bluff . . .	68	+ 1	.4	- .6	Minneapolis . . .	54	- 3	2.1	- 1.3	Huron . . .	54	- 3	4.3	+ 1.5
San Diego . . .	63	0	.1	- .1	Rochester . . .	54	- 2	4.5	+ 1.0	Rapid City . . .	54	- 1	1.3	- 1.5
San Francisco . . .	56	- 2	T	- .4	St. Cloud . . .	51	- 4	3.3	- .3	Sioux Falls . . .	56	- 2	3.1	- .3
Stockton . . .	67	+ 2	0	- .4	MISS. Jackson . . .	74	+ 1	3.0	- 1.4	TENN. Chattanooga . . .	66	- 3	6.5	+ 3.1
COLO. Denver . . .	62	+ 5	.1	- 2.5	Meridian . . .	75	+ 3	3.5	- .3	Knoxville . . .	68	0	11.0	+ 7.7
Grand Junction . . .	65	+ 3	T	- .6	MO. Columbia . . .	63	- 1	7.8	+ 3.1	Memphis . . .	72	+ 1	7.8	+ 3.4
Pueblo . . .	66	+ 5	1.2	- .5	Kansas City . . .	66	+ 1	10.1	+ 5.8	Nashville . . .	70	+ 1	5.0	+ .9
CONN. Bridgeport . . .	58	0	2.8	- .8	St. Louis . . .	65	- 1	5.9	+ 2.0	TEX. Abilene . . .	76	+ 4	.7	- 3.2
Hartford . . .	57	- 1	3.0	- .5	Springfield . . .	66	+ 1	4.7	- .2	Amarillo . . .	72	+ 6	4.1	+ 1.3
D.C. Washington . . .	65	- 1	4.4	+ .7	MONT. Billings . . .	51	- 4	2.8	+ .7	Austin . . .	78	+ 3	5.9	+ 1.9
FLA. Apalachicola . . .	76	+ 1	8.7	+ 5.9	Glasgow . . .	51	- 3	3.3	+ 2.0	Beaumont . . .	77	+ 2	7.6	+ 2.7
Daytona Beach . . .	76	+ 1	2.7	0	Great Falls . . .	49	- 4	3.2	+ .8	Brownsville . . .	82	+ 3	1.8	- .7
Ft. Myers . . .	79	+ 1	2.4	- 1.6	Havre . . .	51	- 4	5.0	+ 3.5	Corpus Christi . . .	81	+ 3	4.2	+ 1.0
Jacksonville . . .	74	0	4.1	+ .9	Helena . . .	49	- 3	2.1	+ .3	Del Rio . . .	81	+ 3	1.4	- 1.0
Key West . . .	80	- 1	3.5	+ 1.0	Kalispell . . .	48	- 3	1.1	- .7	El Paso . . .	76	+ 4	.1	- 1.2
Lakeland . . .	78	+ 1	3.1	- .3	Miles City . . .	52	- 4	3.9	+ 1.8	Fort Worth . . .	76	+ 3	6.0	+ 1.5
Miami . . .	80	+ 2	2.6	- 3.5	Missoula . . .	49	- 3	3.4	- 1.3	Galveston . . .	77	+ 1	7.8	+ 4.6
Orlando . . .	78	+ 2	2.7	- .2	NEBR. Grand Island . . .	64	+ 3	2.4	- 1.4	Houston . . .	77	+ 1	5.6	+ .5
Tallahassee . . .	75	0	8.6	+ 4.6	Lincoln . . .	62	0	5.2	+ 1.7	Lubbock . . .	75	+ 6	1.2	- 2.0
Tampa . . .	78	+ 1	1.1	- 1.3	Norfolk . . .	61	+ 1	3.4	- .3	Midland . . .	78	+ 6	3.4	+ 1.2
W. Palm Beach . . .	79	+ 1	2.9	- 2.3	N. Platte . . .	60	+ 2	1.6	- 1.7	San Angelo . . .	76	+ 1	2.4	- .3
GA. Atlanta . . .	71	+ 2	3.8	+ .1	Omaha . . .	62	+ 1	2.6	- 1.4	San Antonio . . .	77	+ 1	4.3	+ 1.2
Augusta . . .	72	0	4.2	+ .8	Valentine . . .	57	0	2.6	- .2	Victoria . . .	80	+ 3	11.2	+ 7.2
Macon . . .	74	0	4.2	+ .6	NEV. Ely . . .	53	+ 3	.3	- .6	Waco . . .	77	+ 2	2.2	- 2.4
Savannah . . .	75	+ 2	7.3	+ 3.1	Las Vegas . . .	77	+ 4	T	- .1	Wichita Falls . . .	76	+ 4	1.8	- 2.8
HAWAII. Hilo . . .	74	0	8.1	- 2.0	Reno . . .	55	0	T	- .7	UTAH. Blanding . . .	60	+ 3	T	- .6
Honolulu . . .	78	+ 1	.8	- .2	Winnemucca . . .	57	+ 3	T	- .9	Salt Lake City . . .	59	+ 1	.4	- 1.1
Kahului . . .	76	+ 1	.5	- .1	N.H. Concord . . .	51	- 4	3.7	+ .7	VT. Burlington . . .	51	- 4	4.3	+ 1.3
Lihue . . .	76	0	3.7	+ 1.3	N.J. Atlantic City . . .	60	+ 2	2.6	- .9	VA. Lynchburg . . .	64	- 1	4.9	+ 1.7
IDAHO. Boise . . .	55	- 2	.1	- 1.2	Trenton . . .	61	- 1	3.0	- .4	Norfolk . . .	67	0	3.7	+ .4
Lewiston . . .	56	- 2	.8	- .8	N.MEX. Albuquerque . . .	69	+ 4	T	- .5	Richmond . . .	66	- 1	3.0	- .4
Pocatello . . .	53	- 1	1.3	0	Roswell . . .	74	+ 5	T	- 1.0	Roanoke . . .	64	0	3.8	+ .3
ILL. Cairo . . .	69	0	3.8	- 1.4	N.Y. Albany . . .	54	- 4	3.5	+ .2	WASH. Colville . . .	51	- 4	2.0	+ .4
Chicago . . .	57	- 3	6.0	+ 2.6	Binghamton . . .	53	- 2	3.2	- .6	Omak . . .	53	- 4	.9	- .2
Moline . . .	59	- 2	11.4	+ 7.5	Buffalo . . .	53	- 2	3.4	+ .4	Quillayute . . .	48	- 3	12.5	+ 7.8
Peoria . . .	59	- 3	6.3	+ 2.4	New York . . .	60	- 2	3.8	+ .4	Seattle-Tacoma . . .	55	0	1.4	- .3
Rockford . . .	57	- 2	7.0	+ 3.1	Rochester . . .	54	- 3	6.6	+ 3.8	Spokane . . .	50	- 5	1.0	- .5
Springfield . . .	62	- 1	6.4	+ 2.9	Syracuse . . .	54	- 3	5.8	+ 2.8	Walla Walla . . .	59	- 1	.4	- 1.2
IND. Evansville . . .	67	+ 1	6.4	+ 2.0	N.C. Asheville . . .	64	0	5.6	+ 2.3	Yakima . . .	54	- 4	.8	+ .2
Ft. Wayne . . .	58	- 2	5.1	+ 1.2	Charlotte . . .	69	+ 2	4.5	+ 1.2	W.Va. Beckley . . .	60	+ 1	4.7	+ .9
Indianapolis . . .	62	0	6.3	+ 2.2	Greensboro . . .	66	- 3	5.7	+ 2.8	Charleston . . .	64	- 1	6.1	+ 2.6
South Bend . . .	58	0	4.8	+ 1.6	Hatteras . . .	69	+ 2	4.3	+ 1.3	Huntington . . .	65	0	9.3	+ 5.5
IOWA. Burlington . . .	60	- 2	7.0	+ 3.4	Raleigh . . .	67	0	7.7	+ 4.4	Parkersburg . . .	63	- 1	6.1	+ 2.5
Des Moines . . .	60	- 1	7.2	+ 3.0	Wilmington . . .	72	+ 1	5.3	+ 1.3	WIS. Green Bay . . .	52	- 3	4.5	+ 1.4
Dubuque . . .	55	- 3	7.4	+ 2.7	N.DAK. Bismarck . . .	51	- 3	2.7	+ .5	La Crosse . . .	55	- 4	3.5	- .2
Sioux City . . .	62	+ 1	4.2	+ .7	Fargo . . .	51	- 4	4.0	+ 1.7	Madison . . .	54	- 2	5.8	+ 2.4
KANS. Concordia . . .	65	+ 2	2.4	- 1.8	Williston . . .	50	- 4	3.7	+ 1.9	Milwaukee . . .	51	- 3	4.1	+ 1.2
Dodge City . . .	68	+ 4	2.9	- .3	OHIO. Akron-Canton . . .	58	- 1	4.9	+ 1.0	WYO. Casper . . .	51	- 2	.6	- 1.3
Goodland . . .	61	+ 1	1.1	- 1.4	Cincinnati . . .	62	- 1	5.5	+ 1.8	Cheyenne . . .	55	+ 3	.1	- 2.4
Topeka . . .	67	+ 2	3.6	- .4	Cleveland . . .	56	- 2	4.8	+ 1.3	Lander . . .	51	- 2	.3	- 2.3
Wichita . . .	68	+ 2	4.6	+ 1.0	Columbus . . .	61	0	3.3	- .7	Sheridan . . .	50	- 3	1.4	- 1.1
KY. Lexington . . .	64	- 1	5.5	+ 1.3	Dayton . . .	60	- 2	5.3	+ 1.5	P.R. San Juan . . .				
Louisville . . .	65	0	3.9	- .3	Toledo . . .	56	- 3	4.2	+ .9					



SHADED AREAS: Index increased or did not change last week

Index

- Above 3.0 Excessively wet, some fields flooded
- 2.0 to 3.0 Too wet, some standing water
- 1.0 to 2.0 Prospects good, some fields too wet
- 0 to 1.0 Moisture adequate for present normal needs
- 0 to -1.0 Prospects improved, but rain still needed
- 1.0 to -2.0 Some improvement, but still too dry
- 2.0 to -3.0 Drought eased, but still serious
- Below -4.0 Not enough rain, still extremely dry

UNSHADED AREAS: Index decreased last week

Index

- Above 3.0 Some drying, but still excessively wet
- 2.0 to 3.0 More drying weather needed, work delayed
- 1.0 to 2.0 Favorable, except still too wet in spots
- 0 to 1.0 Normal growth and fieldwork
- 0 to -1.0 Topsoil moisture short, germination slow
- 1.0 to -2.0 Abnormally dry, prospects deteriorating
- 2.0 to -3.0 Too dry, yield prospects reduced
- 3.0 to -4.0 Potential yields severely cut by drought
- Below -4.0 Extremely dry, most crops near ruin

The map gives a general picture of how wet or dry the Nation was last week. It shows areas where abnormal wetness or dryness have hindered crops and areas where moisture conditions have favored them.

The lines show the crop-moisture situation according to an index computed from values of temperature and precipitation by areas...350 climatological divisions, which correspond roughly to SRS's crop reporting districts. Previous weekly computations of soil moisture account for the effects of prior weather.

Shaded areas are those where precipitation increased the index last week or where soils did not dry. Unshaded areas dried last week.

The centers of wet or dry areas are marked: W=wet; D=dry. The map lines mark off crop situations. Use the legend to interpret.

Local variations caused by isolated rain or by soil differences are not shown. While shallow rooted crops in poor soils may suffer more than the map shows, conditions may be better where soils are good. Also, legends apply to growing rather than mature plants. Any map interpretation must consider both the growth stage and moisture status and trend. In irrigated regions, the index values reflect only departures from ordinary irrigation requirements.

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

IMMEDIATE - U. S. Weather Report

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