

# Weekly Weather & Crop Bulletin

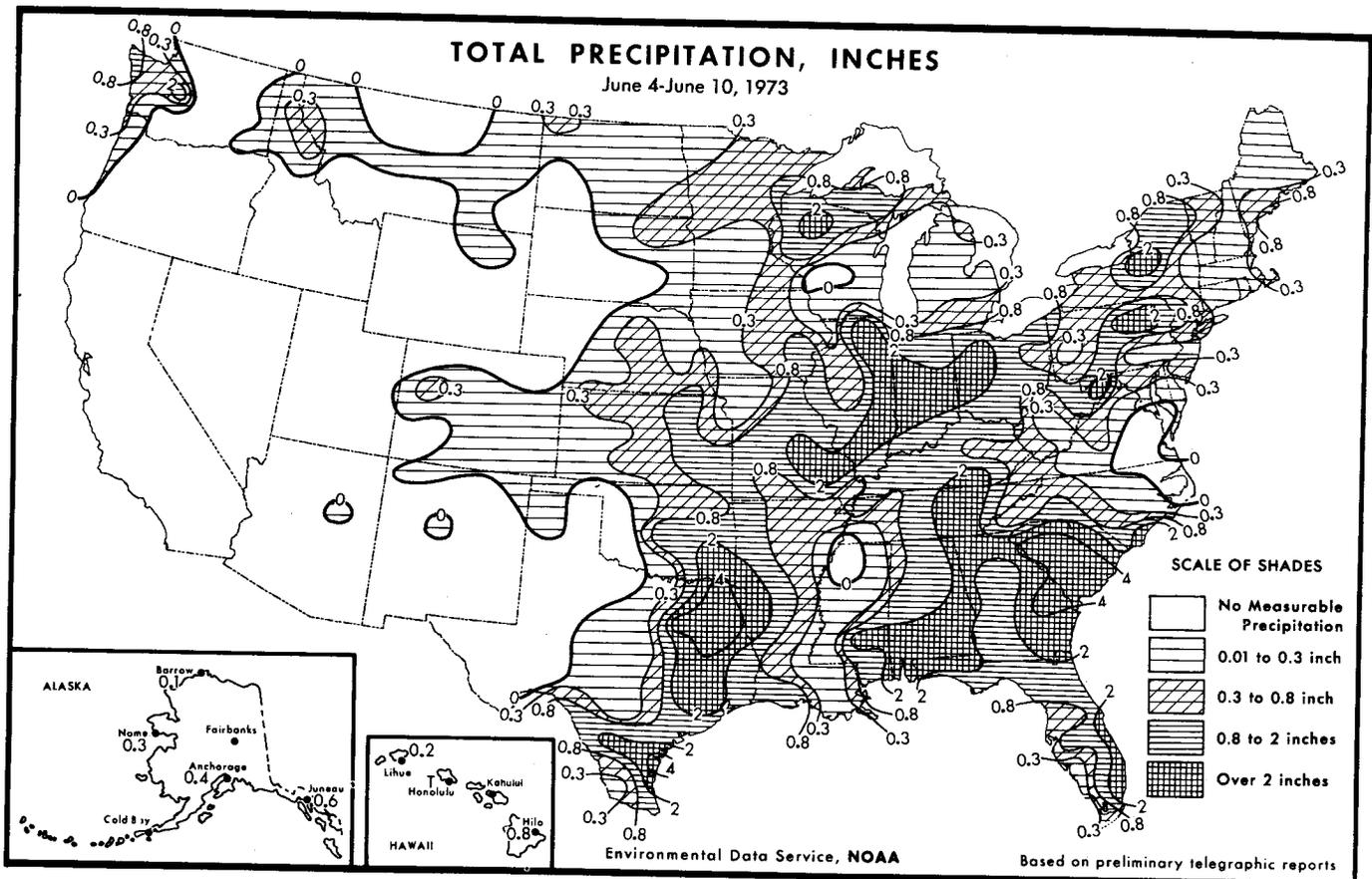
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## NATIONAL WEATHER SUMMARY

**HIGHLIGHTS:** The eastern Corn Belt got 2 in of unwanted rain early in the week; however, clear weather late week allowed farmers to get back into fields. This, and much of the rest of the East's precipitation, was due to a very slow moving cold front that took most of the week to cross the Nation. It was warmer than normal over most of the Nation, and uncomfortable in the East because of high humidity.

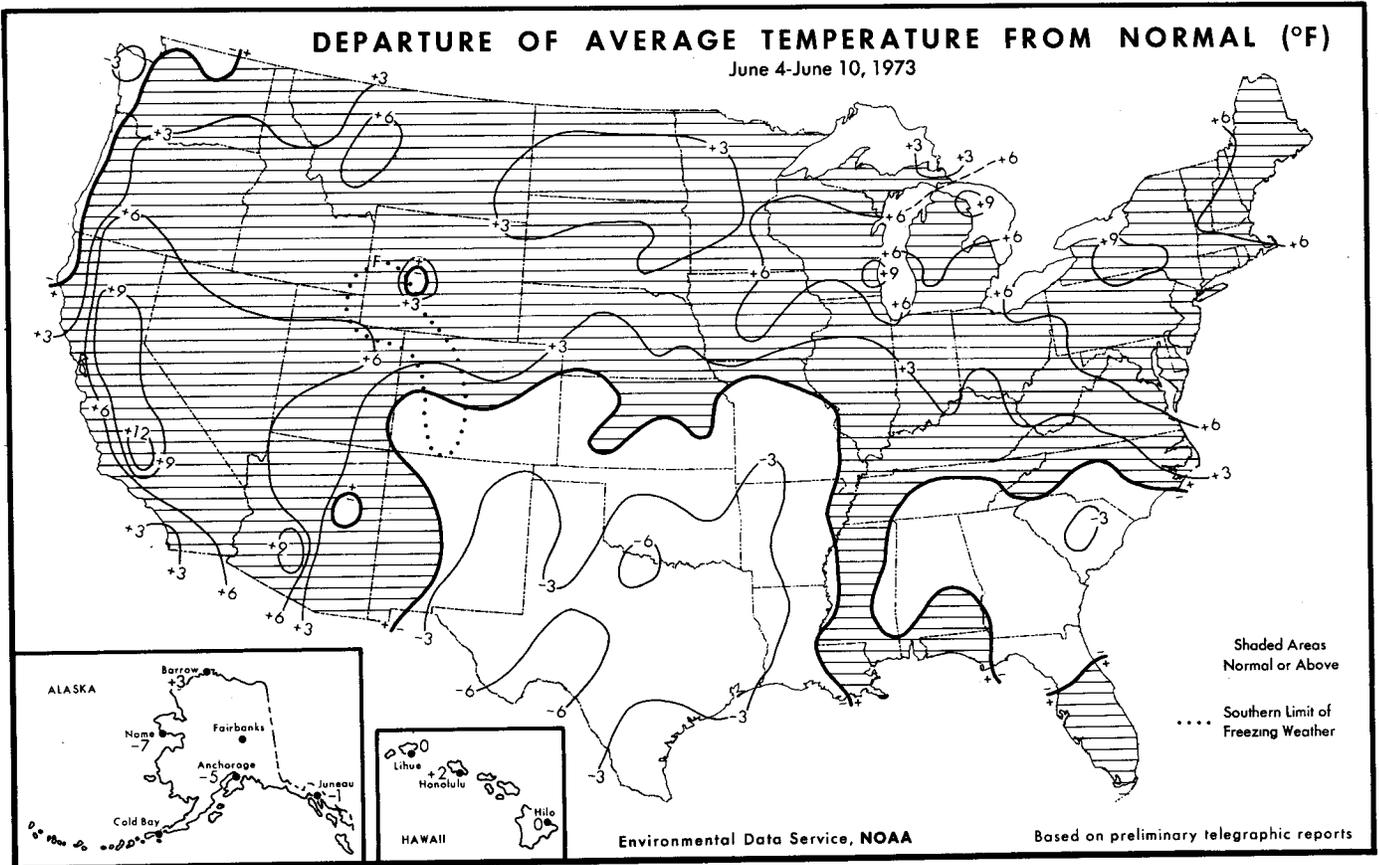
**PRECIPITATION:** The western two-fifths of the Nation received virtually no rain. Some scattered areas did get up to 0.30 in, while daily rains brought coastal areas in Washington up to 0.80 in.

In contrast, areas from the Corn Belt to the Atlantic were peppered with thunderstorms. Areas in Texas, South Carolina, and Georgia got 4.00 in or more of rain, while a large area in the eastern Corn Belt got 2.00 in or more.

Severe thunderstorms struck the Nation's mid-section on Monday. An intense Low, centered over Lake Winnipeg, Manitoba, spread them from the central Plains to the Appalachians. In 6 hours Monday afternoon, Lafayette, Ind., had 1.81 in of rain; Martinsburg, W. Va., 1.80 in; Cedar Rapids, Iowa, 1.12 in. Twenty tornadoes tore into seven States and Louisville, Ky., had a 70 mph wind gust.

Tuesday the cold front extending from the Manitoba Low divided the Nation weatherwise from Michigan to Texas. To the west the sun shone and dry weather prevailed; to the east hot and humid with locally heavy rains. Findlay, Ohio, got 1.42 in rain in the afternoon.

The front slowly crept eastwards. It reached the Appalachians on Thursday, and sat along the mountains, stretching north through New York. On Friday the front finally dissipated over New England. Along its way it had distributed heavy



thunderstorms from the Great Lakes to the Gulf. Tuesday-Wednesday Muscle Shoals, Ala., got 2.50 in rain.

On Thursday another cold front moved southwards from Canada into Montana, Minnesota, and the Dakotas, bringing gloomy skies and some thunderstorms to the Dakotas. While Friday weather was sunny over most of the Nation, the cold front brought cloudy skies and a few showers from the north Pacific Coast to the Rockies and scattered thundershowers to the Great Lakes and Michigan. On Saturday the front moved south, stretching from Kansas to Michigan, but it dissipated and disappeared from the face of the map.

Late in the week another cold front entered from the Pacific Northwest. By Sunday it had embraced the northwestern fifth of the Nation, causing cloudiness and thunderstorms across the northern Plains and Great Lakes regions.

Dixie managed to generate its own kind of weekend thunderstorm activity. A High off the East Coast pumped warm humid air into the East. In the South ground temperatures rose, sending hot air aloft to meet the moisture. Called local convective action, the mixture generated drenching afternoon thundershowers.

**TEMPERATURE:** East of the Mississippi, most Americans steeped in hot muggy weather as a High over the Atlantic pumped moist tropical air into the East. Temperatures averaged up to 9° above normal. However, a section of Dixie stretching from north

Florida to middle North Carolina and from the coast to mid-Alabama averaged temperatures up to 3° subnormal. Cloudiness and thunderstorms, particularly late week storms, kept things cool.

West of the Mississippi, winds blowing south-east from the Rockies kept Texas, Oklahoma, and areas in States bordering them up to 6° below the norm. The coastal areas of the Pacific Northwest averaged up to 3° below normal--otherwise the West was hot. Some California desert areas averaged 12° above the norm for the week. One Montana area averaged 6° above normal, as did some places in Iowa and Minnesota.

Monday began a warm, sometimes downright hot, week with temperatures reaching the 90's along the Gulf Coast and Southern Plains and exceeding 100° in the southwestern deserts.

Tuesday remained seasonally warm across the Nation and uncomfortably humid in the East. Afternoon temperatures hit 70's and 80's across most of the Nation and ranged from the 50's along the New England coast to 100° or more in California deserts.

Late week temperatures in Texas tended to average less than areas to the north because of cooling winds. On Friday east Texas readings ranged from mid to high 80's, while in Nebraska they ran up to 97°. Over the weekend, the same north-south reversal occurred in the East, because of clouds and thunderstorms. Sections of Georgia and the Carolinas enjoyed readings in the mid-70's to mid-80's, while to the north Americans sweltered in high-80's and low-90's.

## NATIONAL AGRICULTURAL SUMMARY

**AGRICULTURAL HIGHLIGHTS:** Corn 90 percent planted in Corn Belt -- rain slowed planting in eastern Corn Belt. \* Soybean planting gaining momentum. \* Cotton planting about finished. \* Wheat harvest underway in Oklahoma later than normal.

**SMALL GRAINS:** Winter wheat in Kansas and Nebraska developed favorably last week while harvesting of wheat increased in Texas and got underway in Oklahoma. The crop is maturing considerably slower than normal in the Great Plains causing a late start on harvesting. Texas wheat acreage is only 12 percent combined compared to 34 percent a year earlier. The Oklahoma wheat harvest is only 5 percent complete compared to the average of 20 percent for the date. Kansas wheat is about all headed out with 25 percent turning color versus 65 percent last year. Combining is expected to start this week in many southern Kansas counties. Combining of small grains was in full swing in California and gained momentum throughout the South. In Illinois through Ohio, wheat is about 80 to 90 percent headed and is beginning to ripen. The drought continued in the Pacific Northwest unabated as small grains headed out with inadequate moisture.

**CORN:** Corn planting neared completion last week in most western Corn Belt States while early-week rains slowed planting progress in the eastern Corn Belt. As of June 10, corn planting in the North Central Region advanced 6 points from the previous week to 90 percent complete compared with about 97 percent complete for both a year earlier and average progress. About 95 percent of the crop is planted in the west North Central States versus 99 percent normally planted. Iowa intended corn acreage is 95 percent planted while Missouri is only 76 percent complete. Corn planting continues to lag 1 to 2 weeks in the east North Central States at 84 percent complete compared to average progress of 95 percent planted. Corn planting is 90 percent done in Illinois, 80 percent in Indiana, and 75 percent in Ohio. Most corn in the Corn Belt is emerged and is in mostly good to fair condition. The Iowa crop is 70 percent emerged and is rated at 92 percent of normal full stand. In the South, corn planting is about 94 percent done with Kentucky at 75 percent and Tennessee at 80 percent complete running much later than usual.

**COTTON:** Cotton planting is virtually complete in every cotton growing State except Texas, Oklahoma, and Missouri. Texas cotton planting is nearing completion at 94 percent compared to the average of 91 percent complete. In Oklahoma, wet soils and widespread replanting of cotton allowed only moderate progress to 75 percent complete. Missouri cotton growers now have 88 percent of their acreage seeded compared to 100 percent seeded by late May last year. In Mississippi, less than 5 percent of the cotton is squaring in fair to good condition. Georgia cotton is in fair condition with 3 percent squaring, much behind normal. In Arizona, some late cotton was planted in Pima County. Cotton in both Arizona and California is making satisfactory progress.

**SOYBEANS:** Planting of soybeans in the Corn Belt gained momentum as growers finished corn planting and began to concentrate on getting their soybean acreage in. As of June 10, the North Central Region intended soybean acreage was 59 percent planted compared with 87 percent a year earlier and average progress of 84 percent. Planting progress was most advanced in the west North Central States at 69 percent planted compared to 89 percent normally planted. Iowa soybeans were 75 percent planted while Missouri and Kansas were only about one-third done. Progress in the east North Central States was slowed by rains and wet fields and at 47 percent complete is well behind average progress of 79 percent. Soybean planting in Illinois is 50 percent complete, Indiana and Ohio are both 45 percent done. The Southern soybean crop is 55 percent planted versus 70 percent usually planted.

**OTHER CROPS:** Sorghum planting neared completion in Texas and Nebraska at 90 percent complete. Kansas sorghum acreage is 45 percent planted and Missouri 37 percent. Greenbugs are causing some damage to newly emerged plants in central Kansas. Planting continues active in California. Haying was in full swing on the Nation's farms. Most tobacco in the South Atlantic States is in good shape. Burley is 67 percent transplanted in North Carolina and 45 percent complete in Kentucky. Excessive rain caused some damage to Georgia tobacco. Potato planting in Aroostook Co., Me. advanced to 75 percent done with completion intended this week. New crop sugar beets in California made good progress. Rice seeding in Texas is 96 percent done while Arkansas acreage is all seeded, stands are good in Louisiana. Dry bean planting progressed well in California and Colorado, but was delayed in Michigan.

**Fruits and Nuts:** Fruit crops in the north-east benefited from warmer weather. The set of tree fruits in Michigan is below average. Georgia peach harvest is 18 percent complete while South Carolina peaches are 9 percent harvested. Texas pecan trees have set a spotty crop this year. Cherry harvesting started in Oregon, but pickers are in short supply. Fruit in California orchards and vineyards continued making excellent growth.

**Vegetables:** Sunshine and drier air improved planting conditions and vegetable growth late last week in the Northeast. Most New Jersey growers finished planting tomatoes, lettuce volume is heavy. In South Carolina harvest is active for snapbeans and tomatoes. The Florida spring vegetable deal is coming to a close. Heavy rains in east Texas damaged some tomatoes. Lettuce harvest in California increased in several areas.

**PASTURES AND LIVESTOCK:** Pasture and range feed conditions are mostly good to excellent Nation-wide with exceptions in the northwestern States and North Dakota due to dryness. Livestock are in mostly good condition with some problems from flies and poisonous weeds in some areas.

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., June 10, 1973

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 . . .	77	- 1	1.3	+ .4	La.Baton Rouge . . .	80	0	.3	- .4	Youngstown . . .	71	+ 6	1.1	+ .2
Mobile . . .	81	0	3.4	+2.1	Lake Charles . . .	78	- 2	1.2	+ .1	OKLA.Okla. City . . .	72	- 4	1.3	+ .1
Montgomery . . .	79	+ 1	2.8	+2.1	New Orleans . . .	79	0	.3	- .7	Tulsa . . .	75	0	.5	- .6
ALASKA.Anchorage . . .	48	- 5	.4	+ .2	Shreveport . . .	75	- 4	2.8	+1.9	OREG.Astoria . . .	55	- 1	.4	- .5
Fairbanks . . .	33	+ 3	.1	0	MAINE.Caribou . . .	61	+ 3	.2	- .7	Burns . . .	61	+ 4	0	- .2
Juneau . . .	50	- 1	.6	- .1	Portland . . .	64	+ 4	.8	+ .1	Medford . . .	69	+ 7	0	- .3
Kodiak . . .	---	---	---	---	MD.Baltimore . . .	77	+ 7	.5	- .3	Pendleton . . .	68	+ 5	T	- .3
Nome . . .	37	- 7	.3	+ .1	MASS.Boston . . .	71	+ 4	.3	- .4	Portland . . .	64	+ 3	T	- .4
ARIZ.Flagstaff . . .	60	+ 4	0	- .1	Chatham . . .	63	---	.4	---	Salem . . .	61	+ 2	0	- .4
Phoenix . . .	90	+ 9	0	0	MICH.Alpena . . .	67	+ 9	.5	- .2	PA.Allentown . . .	75	+ 8	.8	- .1
Tucson . . .	82	+ 1	0	0	Detroit . . .	71	+ 5	.5	- .2	Erie . . .	69	+ 7	1.0	+ .3
Winslow . . .	69	- 2	T	- .1	Flint . . .	69	+ 5	.2	- .6	Harrisburg . . .	78	+ 8	.2	- .6
Yuma . . .	91	+ 7	0	0	Grand Rapids . . .	71	+ 6	1.2	+ .4	Philadelphia . . .	78	+ 9	.5	- .4
ARK.Fort Smith . . .	72	- 4	1.1	0	Houghton Lake . . .	67	+ 7	.2	- .6	Pittsburgh . . .	73	+ 6	.3	- .6
Little Rock . . .	75	- 2	.5	- .4	Lansing . . .	69	+ 4	.5	- .4	Scranton . . .	72	+ 5	.9	0
CALIF.Bakersfield . . .	88	+13	0	- .1	Marquette . . .	62	+ 4	.9	+ .2	R.I.Providence . . .	73	+ 8	1	- .7
Eureka . . .	52	- 3	T	- .3	Muskegon . . .	67	+ 3	.2	- .4	S.C.Charleston . . .	76	- 2	7.3	+6.2
Fresno . . .	83	+10	0	0	S. Ste. Marie . . .	59	+ 2	.6	- .2	Columbia . . .	76	- 3	4.1	+3.4
Los Angeles . . .	72	+ 5	0	0	MINN.Duluth . . .	61	+ 4	1.0	+ .2	Greenville . . .	75	- 2	2.4	+1.7
Red Bluff . . .	83	+10	0	- .1	Internatl Falls . . .	63	+ 5	.5	- .2	S.D.Aberdeen . . .	68	+ 3	.3	- .4
San Diego . . .	66	0	0	0	Minneapolis . . .	71	+ 6	.2	- .7	Huron . . .	67	+ 2	T	- .7
San Francisco . . .	66	+ 5	0	0	Rochester . . .	71	+ 6	.6	- .4	Rapid City . . .	66	+ 4	T	- .8
Stockton . . .	82	+11	0	0	St. Cloud . . .	66	+ 2	2.5	+1.5	Sioux Falls . . .	69	+ 4	.1	- .8
COLO.Denver . . .	67	+ 3	.1	- .3	MISS.Jackson . . .	79	+ 1	.2	- .7	TENN.Chattanooga . . .	76	- 1	2.5	+1.7
Grand Junction . . .	69	0	T	- .1	Meridian . . .	78	- 1	.6	- .2	Knoxville . . .	74	0	1.1	+ .4
Pueblo . . .	67	- 2	.3	- .1	MO.Columbia . . .	70	- 1	1.7	+ .6	Memphis . . .	79	+ 3	T	- .9
CONN.Bridgeport . . .	72	+ 6	.3	- .5	Kansas City . . .	72	- 2	1.1	-1.0	Nashville . . .	75	0	1.8	+1.0
Hartford . . .	74	+ 8	.1	- .7	St. Louis . . .	72	0	1.1	+ .1	TEX.Abilene . . .	75	- 4	.2	- .6
D.C.Washington . . .	80	+ 8	.1	- .7	Springfield . . .	69	- 3	.8	- .4	Amarillo . . .	71	- 3	T	- .8
FLA.Apalachicola . . .	80	0	1.1	+ .1	MONT.Billings . . .	65	+ 3	T	- .6	Austin . . .	77	- 3	.4	- .4
Daytona Beach . . .	79	+ 1	1.0	---	Glasgow . . .	65	+ 5	T	- .5	Beaumont . . .	77	- 3	1.9	+1.0
Ft. Myers . . .	83	+ 3	T	-1.9	Great Falls . . .	64	+ 7	0	- .7	Brownsville . . .	80	- 2	1.1	+ .2
Jacksonville . . .	79	- 1	1.4	+ .2	Havre . . .	64	+ 5	T	- .5	Corpus Christi . . .	79	- 2	4.1	+3.4
Key West . . .	82	+ 1	.3	- .5	Helena . . .	63	+ 6	T	- .5	Dallas . . .	---	---	---	---
Lakeland . . .	80	0	1.2	0	Kalispell . . .	58	+ 2	.2	- .4	Del Rio . . .	78	- 6	1.8	+1.1
Miami . . .	81	0	2.7	+1.1	Miles City . . .	66	+ 3	.1	- .4	El Paso . . .	76	- 4	T	- .2
Orlando . . .	82	+ 1	.7	- .5	Missoula . . .	59	+ 3	.2	- .2	Fort Worth . . .	75	- 4	.4	- .5
Tallahassee . . .	79	- 1	1.9	+ .5	NEBR.Grand Island . . .	71	+ 3	.5	- .4	Galveston . . .	78	- 2	.9	+ .3
Tampa . . .	82	+ 2	.6	+1.0	Lincoln . . .	72	+ 2	.3	- .6	Houston . . .	76	- 5	2.8	+1.8
W.Palm Beach . . .	82	+ 2	2.0	---	Norfolk . . .	71	+ 3	.1	- .8	Lubbock . . .	74	- 2	0	- .8
GA.Atlanta . . .	74	- 2	1.1	+ .2	N.Platte . . .	67	+ 1	.1	- .6	Midland . . .	74	- 6	T	- .4
Augusta . . .	76	- 2	3.1	+2.5	Omaha . . .	73	+ 4	.4	- .4	San Angelo . . .	75	- 7	.2	- .3
Macon . . .	78	- 2	1.6	+1.0	Valentine . . .	69	+ 4	T	- .7	San Antonio . . .	78	- 3	.1	- .6
Savannah . . .	78	- 1	3.1	+2.1	NEV.Ely . . .	62	+ 6	0	- .2	Victoria . . .	80	0	1.1	+ .4
HAWAII.Hilo . . .	74	0	.8	- .8	Las Vegas . . .	86	+ 6	0	0	Waco . . .	75	- 5	.5	- .3
Honolulu . . .	79	+ 2	T	- .1	Reno . . .	66	+ 8	T	- .1	Wichita Falls . . .	73	- 7	T	- .5
Kahului . . .	---	---	---	---	Winnemucca . . .	75	+16	0	- .2	UTAH.Blanding . . .	64	+ 1	0	- .1
Lihue . . .	77	0	.2	- .3	N.H.Concord . . .	67	+ 4	T	- .8	Salt Lake City . . .	71	+ 7	T	- .3
IDAHO.Boise . . .	67	+ 4	0	- .2	N.J.Atlantic City . . .	76	+ 8	.5	- .2	VT.Burlington . . .	70	+ 8	1.2	+ .5
Lewiston . . .	68	+ 6	T	- .4	Trenton . . .	78	+ 9	.3	- .5	VA.Lynchburg . . .	75	+ 4	.5	- .3
Pocatello . . .	65	+ 5	0	- .3	N.MEX.Albuquerque . . .	73	0	T	- .1	Norfolk . . .	80	+ 6	.2	- .6
ILL.Cairo . . .	77	+ 1	.6	- .4	Roswell . . .	73	- 2	0	- .2	Richmond . . .	79	+ 6	T	- .8
Chicago . . .	75	+ 7	.8	- .1	N.Y.Albany . . .	72	+ 6	- .2	- .5	Roanoke . . .	74	+ 2	.2	- .7
Moline . . .	73	+ 4	.8	- .1	Binghamton . . .	71	+10	.6	- .3	WASH.Colville . . .	61	+ 1	T	- .5
Peoria . . .	71	+ 1	.5	- .5	Buffalo . . .	70	+ 7	.2	- .4	Omak . . .	61	- 2	0	- .3
Rockford . . .	72	+ 5	2.6	+1.6	New York . . .	76	+ 6	.6	- .2	Quillayute . . .	52	- 3	1.7	+1.1
Springfield . . .	73	+ 1	.4	+ .7	Rochester . . .	74	+ 9	.8	+ .3	Seattle-Tacoma . . .	59	+ 1	.3	- .1
IND.Evansville . . .	76	+ 2	.9	0	Syracuse . . .	72	+ 7	2.6	+2.0	Spokane . . .	61	+ 2	.1	- .3
Ft. Wayne . . .	73	+ 4	1.2	+ .2	N.C.Asheville . . .	71	+ 1	.3	- .5	Walla Walla . . .	69	+ 4	.1	- .2
Indianapolis . . .	73	+ 4	2.9	+1.9	Charlotte . . .	74	- 2	1.8	+1.1	Yakima . . .	64	+ 2	0	- .2
South Bend . . .	73	+ 5	.8	0	Greensboro . . .	74	0	.6	- .2	W.Va.Beckley . . .	70	+ 3	.8	- .2
IOWA.Burlington . . .	72	+ 2	1.2	+ .2	Hatteras . . .	78	+ 4	0	- .9	Charleston . . .	74	+ 4	.1	- .7
Des Moines . . .	75	+ 7	.3	- .7	Raleigh . . .	75	+ 1	.2	- .6	Huntington . . .	75	+ 4	1.3	+ .4
Dubuque . . .	71	+ 5	.1	- .8	Wilmington . . .	75	- 1	5.2	+4.3	Parkersburg . . .	75	+ 4	.3	- .7
Sioux City . . .	73	+ 4	.2	- .7	N.DAK.Bismarck . . .	63	+ 1	.1	- .5	WIS.Green Bay . . .	70	+ 7	T	- .7
KANS.Concordia . . .	72	0	.8	- .3	Fargo . . .	63	+ 1	.4	- .2	La Crosse . . .	73	+ 6	0	- .9
Dodge City . . .	73	+ 1	.3	- .4	Williston . . .	64	+ 3	.2	- .3	Madison . . .	70	+ 6	.1	- .7
Goodland . . .	67	- 1	T	- .6	OHIO.Akron-Canton . . .	72	+ 6	.7	- .2	Milwaukee . . .	71	+10	.3	- .3
Topeka . . .	72	0	.4	- .6	Cincinnati . . .	72	+ 2	.9	0	WYO.Casper . . .	64	+ 4	0	- .4
Wichita . . .	72	- 1	.8	- .1	Cleveland . . .	73	+ 7	1.9	+1.1	Cheyenne . . .	64	+ 4	T	- .5
KY.Lexington . . .	73	+ 2	.8	- .2	Columbus . . .	73	+ 4	1.9	+1.0	Lander . . .	66	- 3	0	- .4
Louisville . . .	75	+ 3	1.5	+ .6	Dayton . . .	74	+ 5	2.1	+1.2	Sheridan . . .	64	+ 5	T	- .6
					Toledo . . .	71	+ 5	1.6	+ .8	P.R.San Juan . . .	82	+ 2	1.6	+ .4

## 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:** Warm and humid with highs in 80's and low 90's and lows in 60's and 70's. Widely scattered thundershowers each day becoming more numerous and heavier Wednesday and Thursday. Several stations received 2.00 to 4.00 in Thursday afternoon. Limited progress fieldwork early week, but halted by rain later. Several cotton fields replanted due to poor stands. Earliest planting cotton made good growth as warmer temperatures prevailed. Grass and weed problem many fields as wet weather slowed cultivation and application of herbicides. Few scattered corn fields remained to be planted, mainly north. Growth early corn good with few fields south beginning to silk. Growers made fair progress planting soybeans with slightly over 60% expected acreage in ground. Peanuts made satisfactory development. Combining of wheat slowed by rain, harvest about 25% complete. This activity more advanced south and central and will push north next few weeks. Cutting of hay limited by rain. Growth of hay crops good.

**ALASKA:** Temperatures cool over agricultural areas. Tanana Valley's cumulative growing degree days are considerably higher than normal. Clearwater alone had a freezing temperature. Isolated areas of frost in Matanuska Valley and more generally over Kenai Peninsula. Precipitation more general all areas than during earlier weeks. Because it was shower activity isolated areas fell short of normal. Cumulative amounts especially short in Matanuska Valley. Planting of crops virtually complete in Tanana Valley and about 75% complete in Matanuska Valley. Main planting remaining was mixed grains for silage. Soil moisture supply adequate Tanana Valley but short much of Matanuska Valley. Cool temperatures much of Railbelt caused slow growth crops with some stress in grasses. Livestock good.

**ARIZONA:** Hot, dry, no precipitation. Temperatures near normal eastern border, 5° to 10° above normal along western border. Cotton satisfactory progress, squaring increasing, some blooming; late planting, Pima County. Small grain harvest full swing Pima, Pinal, Yuma counties, good to excellent yields. Barley harvest beginning Graham County. Sorghum satisfactory progress, early plants blooming, setting seed. Safflower bloom past peak. Yuma County yields look favorable. Sugar beet harvest virtually complete Yuma. Alfalfa hay harvest in third cutting southwest. Southcentral area ending second cutting, eastern, northeastern areas first cutting. Lettuce harvest Cochise County progressing well, some leaf burn. Cantaloupe harvest full swing Yuma. Crop quality, sugar content good. Harvest continues carrots, green onions, dry onions. Potato harvest volume basis Salt River Valley. Early fields sizing below average. Harvest grapefruit, Valencia oranges Yuma area nearing completion. Limited export picking continues Salt River Valley. New crop prospects favorable. Ranges generally good. Hot weather dried up desert ranges, lower elevation ranges green, feed supplies good. Higher elevation ranges greening rapidly, providing good forage. Stockwater supplies above normal. Cattle, calves good, calving slowing. Summer roundup full

swing. Sheep, lambs fair to good, moved to summer ranges.

**ARKANSAS:** Subnormal temperatures with departures to 8° subnormal. Extremes: 49°, Fayetteville; 97° Judsonia. Largest departures south and west, near normal northeast quarter. Cooling early week and slow warming trend thereafter. Rainfall heaviest west and south 0.75 in to 1.50 in. Elsewhere trace to near 1.00 in. Largest total 1.50 in at El Dorado and smallest a trace northeast. Most rain fell early week. Field activity slow, showers until midweek. Warm weekend welcomed. Cotton planting complete, over 80% up to stand, plowing up poor stands. All rice seeded, fields being flooded. Soybeans 50% planted, normal 67%. Sorghum over 50% planted. Wheat harvest commencing with some delays until soybeans planted. Oat harvest continues. Hay harvest progressing. Early peaches being picked, fruit sizing well. Tomatoes late. Pasture condition average. Cattle making gains.

**CALIFORNIA:** Temperatures above normal, except near normal portions northeast interior, and northwest coast. No rain reported. High temperatures up to 20° above normal Sacramento and San Joaquin Valley, portions central coast. Coastal fog, low cloud a minimum. Desert temperatures peaked near 120°. Small grain harvest gained momentum statewide. Barley and wheat harvest well along desert area, very active San Joaquin Valley, steadily increasing Sacramento Valley and north. Small grain haying active north and higher elevations, nearing completion other areas. Corn, milo, and dry bean planting continues as spring harvested fields prepared, progressing very well. Safflower doing well, bloom appearing many earlier plantings. Digging overwintered sugar beets remains active, new crop making good progress, few problems. Cotton and rice also showing satisfactory development. Alfalfa haying continues in various stages, fields good. Orchards, vineyards excellent growth. Grape bunch sets good, sizes developing well. Light harvest perlettes Coachella. Harvest early varieties apricots, freestone peaches, plums, nectarines; increase. Bing cherries past peak. Apples, pears, prunes excellent growth. Thinning apples, clingstone peaches continues. Valencia orange harvest proceeding slowly San Joaquin, heavy cullage. Picking active southern California, Valencia, lemons, grapefruit, avocados. Quality good. Broccoli good supply Salinas, plentiful Santa Maria. Cauliflower harvest progressing Santa Maria, good supply Salinas. Light cantaloupe harvest Riverside, increasing El Centro. Carrots increasing Santa Maria, Salinas; near completion El Centro; yields decreasing West Riverside. Celery strong Ventura, active Santa Maria. Sweet corn Coachella Valley continued active, good condition heavy demand. Other areas good plant growth and development--warm weather. Lettuce increased Salinas; Santa Barbara good plant development, better and faster sizing of heads. Onions near completion El Centro, increasing Stockton. Kern potatoes peak harvest. Strawberry harvest to processors southern California; central coast reported some mold, decay. Moderate movement fresh tomatoes; Imperial Valley active. Water-melons light Imperial Valley. Range feed conditions

good through range grasses dry, fire danger extremely high. Moving cattle from foothill ranges to permanent pastures in valley, higher elevation mountain ranges. Some supplemental feeding reported. Livestock very good. Bee colonies moved out valley into mountains for nectar feeding and pollen. Milk production dropped slightly due to heat.

**COLORADO:** Well below normal temperatures through midweek. Warmed up late week. Cooling strong enough to make averages read subnormal. Extremes: 20°, Leadville; 94° La Junta and Pueblo. Some precipitation, good amounts west of divide and lesser amounts east. Over 0.75 in fell at Eagle and Frasier and just over 0.50 in at Grand Junction. Planting field crops good progress. Virtually complete except sorghum and dry beans. Plants emerging rapidly. Early growth excellent. Surface soil moisture needed most areas eastern plains, not critical. Winter wheat 62% headed, some beginning to turn color. Winter barley 66% headed. Spring grains up to stand most areas. Corn 98% seeded, 81% emerged. Sorghum 78% seeded, 61% emerged. Sugar beets 93% emerged, 16% thinned. Dry beans 38% seeded, 11% emerged. Potato condition excellent, virtually all up to stand. Alfalfa condition mostly very good, first cutting 20% complete. Ranges and pastures good to excellent.

**FLORIDA:** Near normal temperatures and typical scattered afternoon showers early, late week. Rain amounts generally 0.50 in to 2.00 in with local amounts to 3.00 in. Little or no rain lower southwest coast and keys. Temperatures mid-60's to mid-90's. Moisture adequate for field crops. Corn growing well, soybeans and peanuts only crops being planted. Flue-cured tobacco harvest started. Small grain harvest continues. Short soil moisture upper Florida slowing grass growth, overall grazing conditions declined. Citrus trees and fruit good. Moisture fairly good, some irrigation. Valencia harvest below desired level due to lack of adequate labor. Grapefruit nearly complete. Spring vegetable deal coming to close. Sweetcorn at full volume into late June, tomatoes declining with harvest essentially complete midmonth. Potatoes rapidly finishing. Light to very light supplies cabbage, cucumbers and snap beans. Eggplant about steady. Carrots, radishes nearly complete. Watermelon increasing as additional acreage comes into production.

**GEORGIA:** Temperatures 1° to 2° subnormal east and near normal west. Scattered showers and thunder-showers much of week. Rains averaged 2.00 in north, 1.50 in central and 1.00 in south. Light showers west over weekend with moderate to heavy showers central and east, 2.00 to 5.00 in east quarter. Soil moisture mostly surplus north and some localized areas south and west central. Rest of State mostly adequate. Progress of fieldwork slowed. Cotton fair, 3% squaring, much behind normal. Corn mostly good. Tobacco fair to good, some damage excessive rain, harvest light. Peanuts good. Soybeans 70% planted. Sorghums 54% planted, slightly below normal progress. Harvesting small grains 41% complete, still behind normal. Peach harvest well advanced south, increasing central, average 18% picked. Vegetables and melons mostly fair to good. Excessive rain a problem.

**HAWAII:** Partly cloudy skies, warm weather with light scattered showers, favorable for crop growth and maturity. Sugar production to date 12% above year earlier. Pineapple harvesting approaching

seasonal peak. Supplies papayas, watermelons heavy, other crops adequate. Insect infestations high, control measures intensified. Most pastures and cattle fair to good. Lowland pastures need more moisture.

**IDAHO:** Precipitation generally insignificant. Temperatures ranged from near to 3° above normal in the north and southwest, and near to 4° below normal east. Quite cool at first, but warmed by midweek. A few nighttime lows near to below freezing midweek mostly southcentral and east. Weather favored farming although cool nights limited plant growth. Irrigation, cultivating, sugar beet blocking, thinning, and first cutting alfalfa leading farm activities. Rains needed throughout State for range growth as grass heading short; also dryland crops north. Winter wheat making good growth, most headed some blooming. Spring wheat mostly boot and pre-boot with some heading. Barley more advanced, some fields blooming southwest. Potatoes making good growth although progress southcentral and eastern 1 week to 10 days later normal. Statewide potato plantings complete, all fields emerged southwest, 70% southcentral, 45% emerged east. Stands uniform and in good condition. Corn planting complete. Dry bean planting nearing completion. Some frost damage sugar beets and potatoes southcentral and east. First cutting alfalfa 70% complete southwest, becoming active southcentral.

**ILLINOIS:** Warm and dry. Temperatures averaging around 4° above normal. Showers early week, no precipitation otherwise. Corn planting increased last half week, about 90% planted, nearly 100% last year, 1970-72 average 98%. Emerged crop at nearly 85% full stand. Condition 5% excellent, 71% good, 23% fair, 1% poor. Soybean planting 50% complete, 94% last year, average 88%. Condition 2% excellent, 59% good, 34% fair, 5% poor. Wheat condition 14% excellent, 59% good, 26% fair, 1% poor. Filling 95%, 90% last year, average 94%. Nearly 30% wheat turning yellow, 60% last year, 55% average. Oats 50% headed, 15% filled, about average. Grain sorghum 30% planted. Alfalfa, red clover hay good to excellent, first crop cutting behind average. Pastures good to excellent. Soil moisture 54% surplus, 46% adequate. About 3 days suitable fieldwork. Main activities planting corn, soybeans, fertilizer application, hay baling.

**INDIANA:** Warm sunny week after Wednesday. Temperatures 2° to 5° above normal. Extremes: 52° Versailles; 93°, Kentland. Rainfall ranged from 1.80 in northeast and southeast, to 3.00 in central. Sunshine and evaporation above normal. Relative humidity subnormal. Two days suitable for fieldwork. Topsoil and subsoil moisture mostly surplus. Corn 80% planted, 95% 1972, 90% average. Corn 75% emerged, stands good, height 4 in, 6 in 1972, 5 in average. Soybeans 45% planted, 80% 1972, 65% average. Soybeans 45% emerged, stands good. Soybeans 2 in high, same as 1972 and average. Wheat 90% headed and 10% beginning to ripen. Oats 10% headed, 25% 1972, 20% average. Alfalfa hay 30% cut first time. Clover hay 15% cut. Pastures good.

**IOWA:** Temperatures 3° to 6° above normal while precipitation subnormal. Excellent planting progress made during 4.5 days suitable for fieldwork. Corn 95% planted, compared with virtual completion for 1972 and 5-year average. Completion eastcentral, southcentral and southeast districts, 90% or less. Over 70% corn emerged, stand of corn

92% of normal, condition mostly good to fair. Soybeans 75% planted, compared with 95% for 1972 and 5-year average. Southeast district less than 35% complete. Over 40% soybeans emerged compared with over 80% for 1972. Condition mostly good to fair. Weed control in corn and soybean fields mostly good to fair. Oats over 5% headed, condition mostly good, but ranges from fair to excellent. First cutting alfalfa hay 15% complete; last year 33% and 5-year average 29%. Condition of hay crops and pastures mostly good to excellent. Topsoil moisture 31% surplus, 67% adequate, and 2% short.

**KANSAS:** Cooler air early week produced showers, thunderstorms, local heavy rains, and large hail. Funnel clouds and brief tornadoes occurred southern Harvey and northern Sedgwick Counties eastward to Allen County. Rainfall little or none in southwest to locally over 1.00 in extreme northwest, 0.50 to 1.00 in rains over central and east with local amounts of 1.50 to 2.50 in. Temperatures about 2° subnormal southeast and northwest, near normal elsewhere. Row crop planting active but rain delayed early week. Corn 93% planted, 96% year earlier, average 96%. Sorghum planting 45% complete, 57% both last year and average. Greenbug infestations reported causing some damage to newly emerged sorghum mainly in central. Soybean planting 35% complete, behind last year's 58% and average 61%. Harvesting alfalfa 85% complete, last year 83%. Alfalfa weevil still damaging second growth. Wheat developing favorably, although some damage from high winds and hail recent weeks. Rains early week improved surface conditions most areas, although some southcentral and southwest counties still short. Wheat 98% headed, 99% year earlier and average; 25% turning color, 65% last year, average 57%. Wheat harvesting expected to start this week many southern counties. Some winter barley harvested and rest of the crop looks good. Native and seeded pastures providing good grazing for cattle.

**KENTUCKY:** Showery with about normal temperatures through midweek becoming fair with above normal temperatures late week. Precipitation variable in showers but averaging about 0.90 in. Farmers averaged 3.5 days fieldwork. Soil moisture 36% adequate, 64% surplus. Corn 75% intended acreage planted, normally about complete. Corn average height 5 in, 8 in last year, 14 in 1970. Soybeans 34% planted, 69% last year, 66% average. Barley tobacco setting very active, 45% complete, last year 85% set. Barley harvest 15% complete, 17% last year, 40% 1970. Seed crop prospects generally favorable. Hay and pasture grasses rank growth. Hay harvest difficult because wet spring.

**LOUISIANA:** Temperatures near normal southeast and 2° to 5° subnormal other areas. Extremes 94° Monroe and 55° Ashland. Scattered showers and thunderstorms several days with widely varying precipitation totals. Amounts ranged 0.25 in to more than 2.00 in. Greatest 1-day total, 2.30 in at Clinton. Soybean planting, crop cultivation, hay cutting active. Fieldwork possible 5.0 days. Soil moisture adequate most areas. Soybeans 55% planted, sorghum 75%, sweet potatoes 85%. Rice stands good. Combining oats 50% complete, wheat 45%. Hay harvest continues active. Livestock and pastures good.

**MARYLAND AND DELAWARE:** Warm averaging 3° to 5° above normal west and central and 6° to 8° above

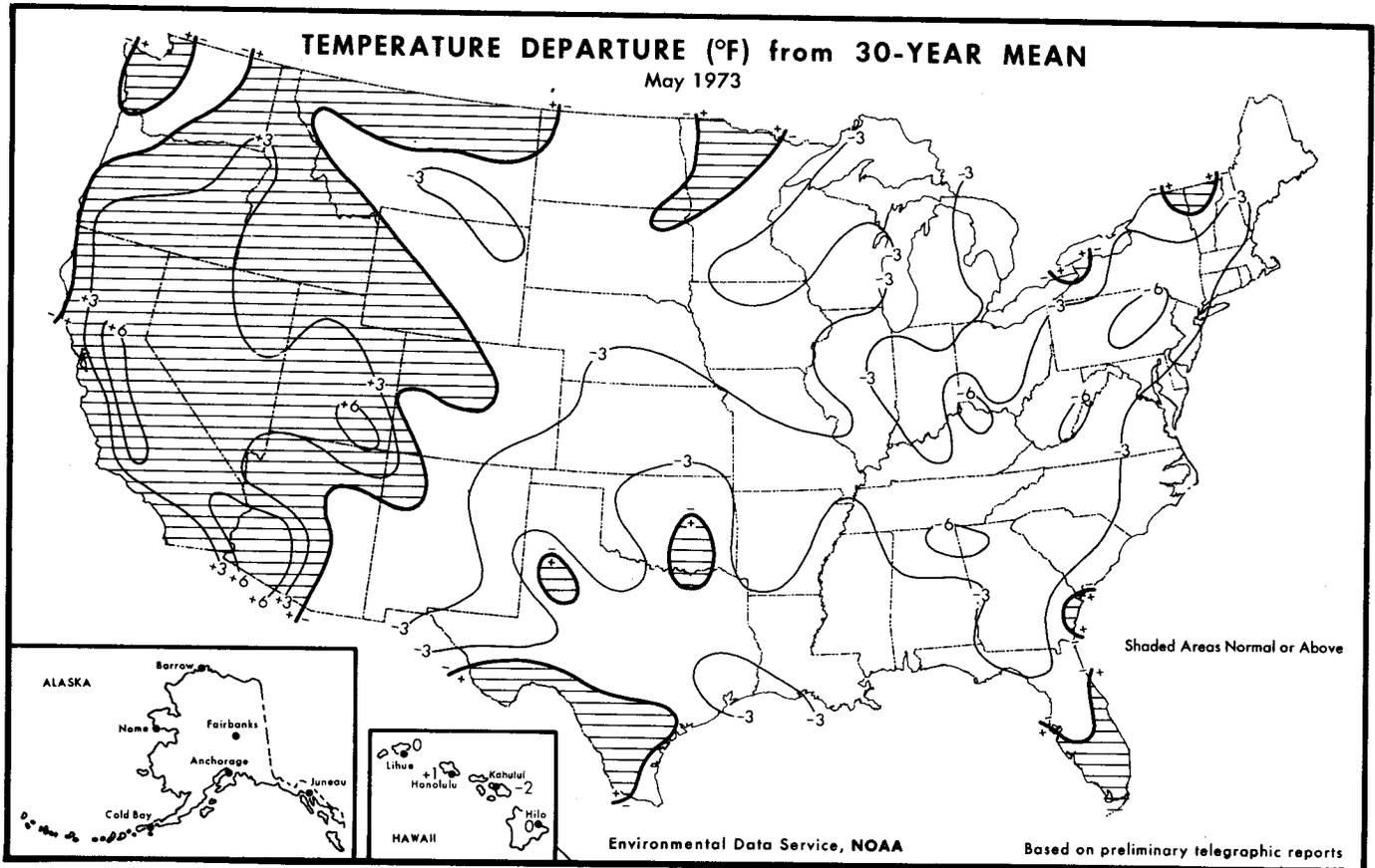
south and Delmarva. Highs near 90°, lows in 40's extreme west, low 50's central; mid-50's to near 60° south Delmarva. General showers central Delaware, Eastern Shore and central Maryland totaling 0.40 to 1.00 in. Varied showers west across north 0.80 to 1.60 in. Warmer temperatures speeded crop development. Corn planting 95% done, still lagging northeast. Soybeans 50% planted, about average but 1 week ahead of last year. Barley harvest started southern areas. Tobacco setting 44% done, normal 50%. Hay harvest delayed northern counties. Strawberry harvest completed south but picking expected for 2 weeks north.

**MICHIGAN:** Daily rainfall most areas until weekend. Heavy thunderstorms, possible tornadoes and hail reported scattered areas mostly lower Michigan. On Sunday temperatures approached record highs most areas lower Michigan. Temperatures 2° to 6° above normal upper and 4° to 8° above normal lower Michigan. Rain averaged 0.25 to 0.50 in lower except near 1.00 in some southwest areas and 0.50 to 1.00 in upper. Fieldwork resumed late week after being held up by rains and wet fields, 1.6 days suitable. Soil moisture continues surplus most of lower peninsula, surplus to adequate upper peninsula. Corn 68% planted, normal 87%. Soybeans 30% planted, normal 71%. Dry beans 4% planted, normal 31%. Potatoes 70% planted, normal 87%. Warm weather stimulated development of winter grains, hay, pasture and early planted spring crops. Rains delayed start of hay making, alfalfa weevil active. Pasture feed above average. Set of all tree fruits below average. Strawberry harvest started southwest. Vegetable development below average.

**MINNESOTA:** Temperatures 2° to 4° above normal. Week began cool, ended hot. Highs 70's and 80's, lows 40's to 60's except weekend. Highs in record 90's. Minneapolis-St. Paul at 98° Sunday. Precipitation subnormal; 0.25 in subnormal northwest, 1.00 in subnormal south. Fieldwork progress good, crop growing conditions good. Fieldwork possible 5 to 7 days. Weed spraying cultivating, planting, haying common. First cutting alfalfa yield reduced from winterkill and spring coolness. Moisture supply adequate to short west third of State. Northwest subsoil adequate to very short. Remainder State adequate except south where subsoil ranged adequate to surplus. Corn emerged 94%, average 90%; cultivated once 44%; normal 33%; height 7 in, normal 4 in. Soybeans 95% planted, normal 90%, 71% emerged, normal 63%; height 3 in, normal 2 in. Sweet corn for processing 99% planted; normal 91% and sunflowers 97% planted. Alfalfa first cutting 18%, normal 17%. Rye headed 73%, normal 58%. Winter wheat headed 50%, normal 32%. Flax 88% emerged, normal 78%.

**MISSISSIPPI:** Widely scattered thundershowers. Rainfall 4.13 in Lauderdale County and 4.40 in Jefferson Davis County the 8th. Temperatures 2° subnormal, with extremes of 93° south to 53° north. Slightly warmer over weekend with isolated thundershowers. Soil moisture mostly adequate. Averaged 4.9 days suitable for fieldwork, 6.1 days last year. Cotton planting complete, less than 5% squaring, condition fair to good. Soybean acreage 55% planted, 79% last year, normally about 70%. About 43% soybean acreage planted up to a stand, condition mostly good. Corn planting 90% complete, 95% last year, normally 94%, condition fair to good. Sorghum 65% planted, 85% last year, normally 70%. About 55% of

Continued on page 11



#### WEATHER - MAY 1973

**PRECIPITATION:** May started and ended wet, but dry weather at mid-month gave farmers a much needed break. Precipitation was above normal from the Mississippi eastward except for Ohio, Indiana, central Illinois, and parts of the East Coast. The western half of the Nation was below normal except for a band extending from Iowa through Nebraska, Colorado, Utah and Arizona. The Pacific Northwest continued dry in most areas.

The month began with a continuation of the heavy rains which had fallen during March and April. The Lower Mississippi Valley, already flooded, received an additional 2.00 to 4.00 in during the first week of May. Parts of Oklahoma, Kansas, Missouri, and Illinois, and nearly all of Iowa and Wisconsin received over 2.00 in of rain, delaying fieldwork for another week.

While parts of the Corn Belt received a brief respite from the rains, violent weather continued in many areas during the 2nd week of May. Much of the Deep South received an additional 2.00 to 4.00 in. On the 7th and 8th a Low pressure system moved across the Corn Belt. Ahead of a cold front associated with the Low, violent weather struck southeast Texas, Louisiana, Arkansas and western Tennessee. Trimble, Miss., reported 3.00 in of rain in 12 hours. At Geraldine, Ala., a tornado touched down killing one and injuring 18. Another storm system later in the week repeated the weather of the first. When the storm finally cleared the East Coast, the first week of really clear, dry weather in many months covered the Nation's midsection.

Except for some rainfall over the Rockies, the western two-thirds of Nation received virtually no rainfall during the week ending May 21. The remains of the previous storm dropped heavy rains

on portions of the East Coast early in the week, but once it cleared the entire Nation was dry.

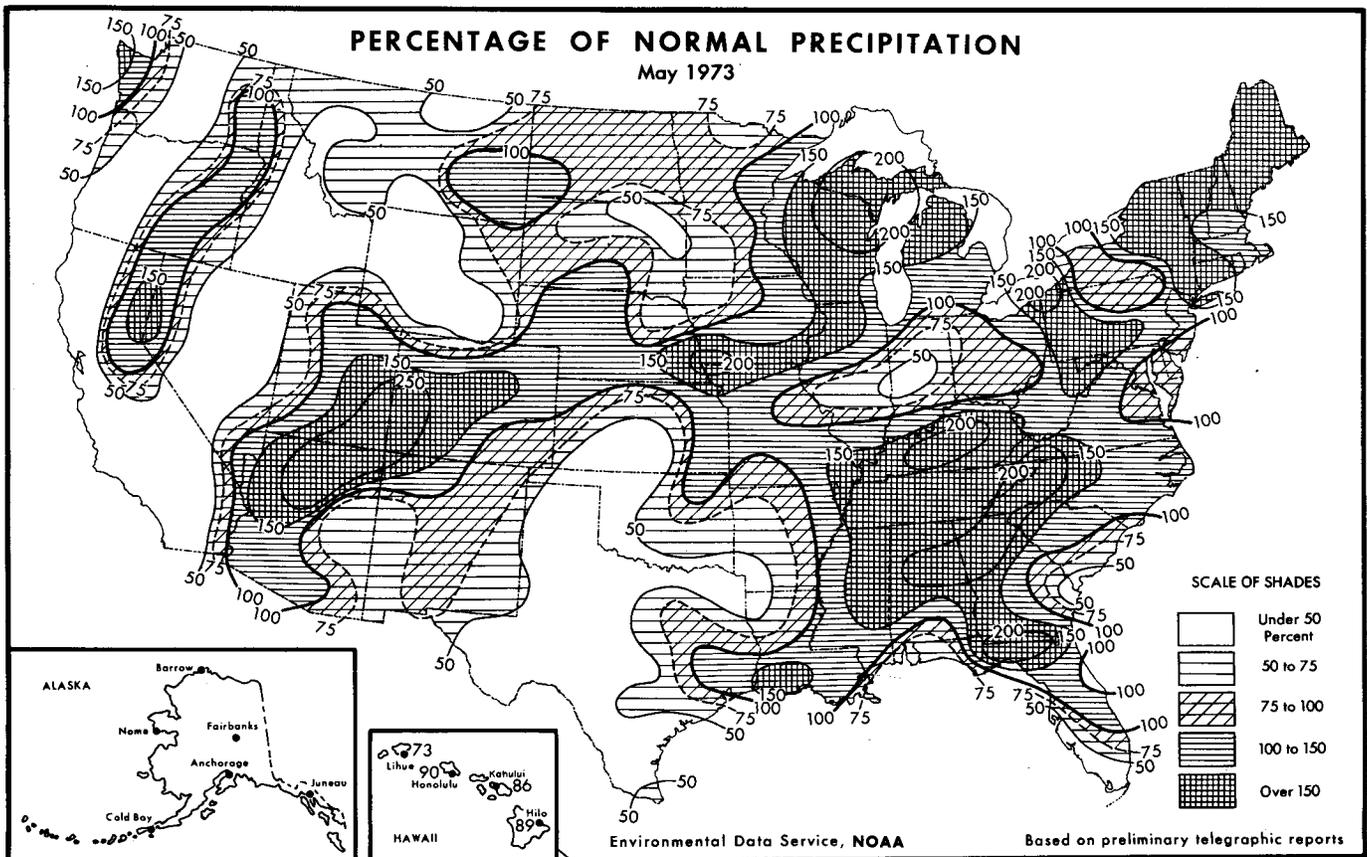
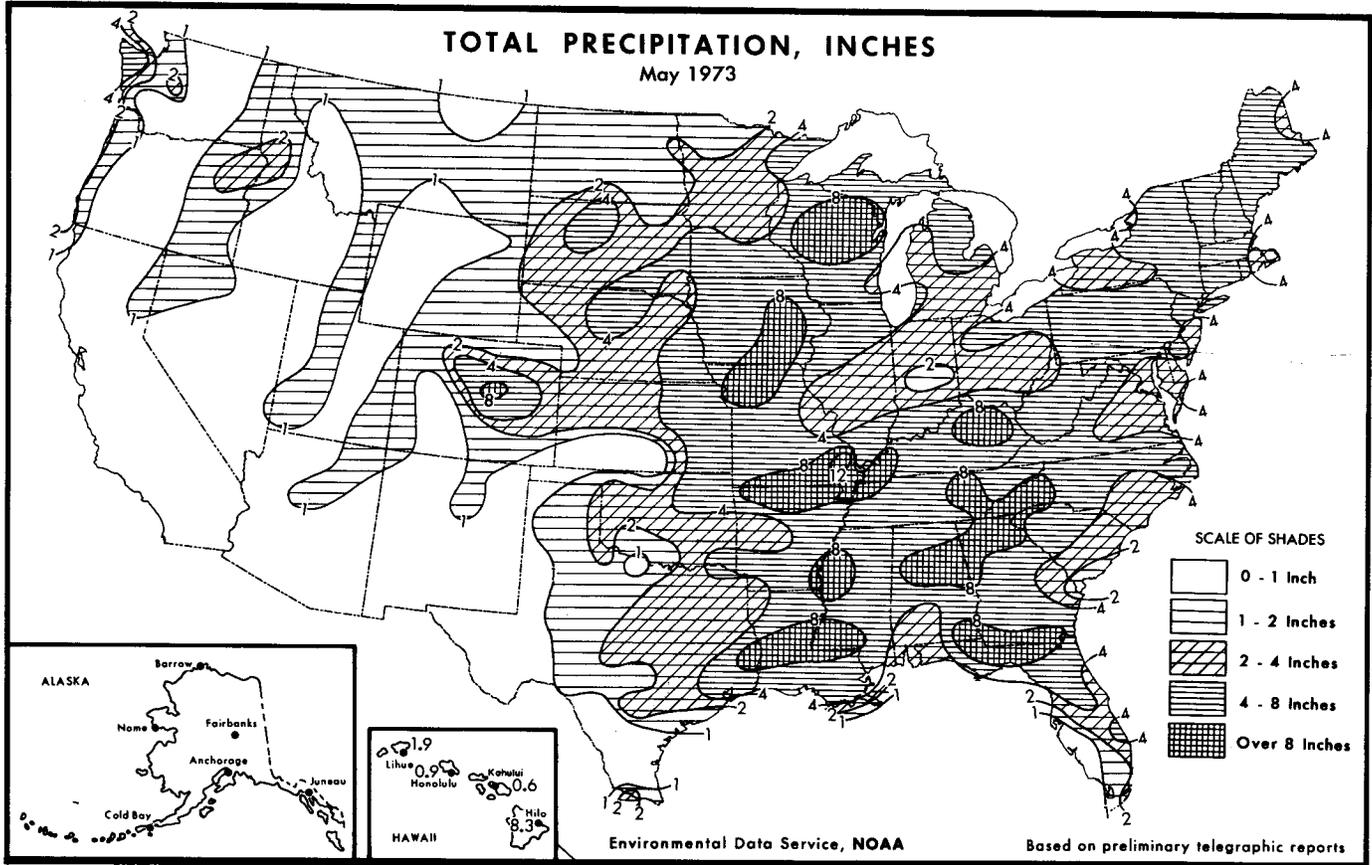
The last decade of May was again wet in many areas. Heavy rains fell over the Upper Mississippi Valley and the Ohio River southward to the Gulf with a slightly drier area between. A large Low pressure system over Canada brought cold murky to much of the Nation over the Memorial Day weekend. Violent weather in the South caused several deaths. On the 26th some 40 tornadoes were reported, mostly in Oklahoma, Kansas, Missouri, Arkansas and Florida. During the period from the 26th to the 29th at least 195 tornadoes occurred.

**TEMPERATURE:** From the Rockies eastward, temperatures were below normal for the month, while to the west, temperatures were 3° to 6° above normal. Temperatures were generally below normal during the first week of May over the entire Nation. The only exceptions were the New England area and parts of the California coast. Temperatures in most areas were 3° to 6° below normal, with the Rocky Mountain area 6° to 9° above normal.

Most of the Nation's midsection and the Northwest continued below normal as the result of a large High late in the second week. Warmer than average temperatures prevailed over most of the East and West Coasts, the Gulf areas of the Deep South and the Southwest.

The middle week brought both extreme warmth and cold, depending on which half of the country one lived. From the Rockies westward, temperatures were generally 3° to 12° above normal, while to the east, temperatures were 3° to 12° sub-norm.

As the month ended, temperature variations were large, with conditions generally averaging below normal.



Temperature and Precipitation Data for May 1973

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	- 4	8.3	+4.9	La. Baton Rouge . . .	74	- 1	5.6	+ .8	Youngstown . . .	54	- 4	5.1	+1.0
Mobile . . .	75	- 1	3.0	-1.9	Lake Charles . . .	73	- 3	7.5	+2.9	OKLA, Okla. City . . .	67	- 1	3.6	-1.6
Montgomery . . .	71	- 1	4.0	+ .5	New Orleans . . .	73	- 1	4.7	+ .3	Tulsa . . .	68	0	5.3	0
ALASKA, Anchorage . .	---	---	---	---	Shreveport . . .	72	- 1	2.0	-2.8	OREG, Astoria . . .	53	0	3.2	0
Barrow . . .	---	---	---	---	MAINE, Caribou . . .	49	- 1	5.0	+2.0	Burns . . .	56	+ 3	1.1	+ .2
Fairbanks . . .	---	---	---	---	Portland . . .	51	- 2	6.3	+2.9	Medford . . .	62	+ 4	.4	-1.1
Juneau . . .	---	---	---	---	MD, Baltimore . . .	60	- 4	3.7	- .3	Pendleton . . .	61	+ 1	1.7	- .4
Kodiak . . .	---	---	---	---	MASS, Boston . . .	57	- 2	3.8	+ .5	Portland . . .	59	- 1	1.4	+ .3
Nome . . .	---	---	---	---	Chatham . . .	52	- 2	3.3	---	Salem . . .	56	0	1.1	-1.0
ARIZ, Flagstaff . . .	53	+ 2	1.2	+ .7	MICH, Alpena . . .	49	- 2	4.8	+1.9	PA, Allentown . . .	56	- 4	5.5	+1.4
Phoenix . . .	81	+ 6	.1	0	Detroit . . .	56	- 3	3.7	+ .2	Erie . . .	53	- 3	4.6	+3.1
Tucson . . .	73	- 1	.1	0	Flint . . .	53	- 2	3.7	+ .3	Harrisburg . . .	58	- 5	6.4	+2.5
Winslow . . .	63	- 2	.1	- .2	Grand Rapids . . .	54	- 3	4.3	+ .8	Philadelphia . . .	60	- 3	4.1	+ .4
Yuma . . .	81	+ 3	0	0	Houghton Lake . . .	51	- 4	4.9	+2.0	Pittsburgh . . .	56	- 4	5.9	+2.0
ARK, Fort Smith . . .	66	- 4	3.8	-1.5	Lansing . . .	53	- 4	3.8	+ .1	Scranton . . .	53	- 7	3.8	- .2
Little Rock . . .	67	- 4	4.0	-1.3	Marquette . . .	45	- 5	7.2	+4.2	R.I. Providence . . .	57	- 1	4.0	+ .6
CALIF, Bakersfield . .	77	+ 7	T	- .2	Muskegon . . .	52	- 4	3.8	+ .8	S.C. Charleston . . .	72	- 1	1.8	-1.8
Eureka . . .	52	- 1	.9	-1.3	S. Ste. Marie . . .	46	- 4	5.2	+2.4	Columbia . . .	68	- 4	4.0	+ .5
Fresno . . .	73	+ 5	T	- .3	MINN, Duluth . . .	48	- 1	3.8	+ .5	Greenville . . .	66	- 4	5.6	+2.4
Los Angeles . . .	66	+ 1	T	- .8	Internatl Falls . .	52	+ 1	1.7	- .9	S.D. Aberdeen . . .	57	0	1.0	-1.3
Red Bluff . . .	72	+ 4	.3	- .8	Minneapolis . . .	55	- 2	2.5	- .7	Huron . . .	56	- 2	2.0	- .4
San Diego . . .	63	- 1	T	- .2	Rochester . . .	53	- 4	5.3	+1.6	Rapid City . . .	54	- 2	2.4	- .3
San Francisco . . .	59	+ 1	.1	- .4	St. Cloud . . .	54	- 2	2.9	- .6	Sioux Falls . . .	57	- 1	1.9	-1.5
Stockton . . .	71	+ 5	.4	0	MISS, Jackson . . .	71	- 2	6.0	+1.8	TENN, Chattanooga . .	65	- 5	6.4	+2.9
COLO, Denver . . .	56	0	5.1	+2.4	Meridian . . .	70	- 2	6.6	+2.7	Knoxville . . .	64	- 4	5.7	+2.2
Grand Junction . . .	62	0	1.5	+ .9	MO, Columbia . . .	61	- 3	4.4	- .3	Memphis . . .	69	- 1	6.2	+2.0
Pueblo . . .	59	- 2	1.8	0	Kansas City . . .	62	- 4	5.7	+1.3	Nashville . . .	64	- 5	5.7	+2.0
CONN, Bridgeport . . .	56	- 3	6.0	+2.3	St. Louis . . .	62	- 2	3.9	+ .2	TEX, Abilene . . .	71	- 1	1.4	-2.9
Hartford . . .	58	- 2	6.0	+2.6	Springfield . . .	61	- 4	4.3	-1.0	Amarillo . . .	63	- 4	1.4	-2.0
D.C. Washington . . .	63	- 3	3.4	- .7	MONT, Billings . . .	54	- 3	.7	-1.2	Austin . . .	74	- 1	1.4	-2.3
FLA, Apalachicola . .	74	- 1	2.6	- .3	Glasgow . . .	56	+ 1	.5	-1.0	Beaumont . . .	73	- 4	5.5	+ .4
Daytona Beach . . .	75	+ 1	2.4	- .5	Great Falls . . .	55	+ 2	1.0	-1.1	Brownsville . . .	78	- 1	1.2	-1.2
Ft. Myers . . .	78	+ 1	.8	-3.1	Havre . . .	57	+ 2	1.0	- .5	Corpus Christi . . .	77	- 1	.6	-2.4
Jacksonville . . .	74	- 2	5.3	+1.8	Helena . . .	53	0	1.1	- .5	Dallas . . .	---	---	---	---
Key West . . .	80	+ 1	.8	-1.9	Kalispell . . .	52	- 0	.9	- .8	Del Rio . . .	78	+ 1	.2	-2.5
Lakeland . . .	76	- 1	2.2	-1.3	Miles City . . .	56	- 1	1.9	+ .2	El Paso . . .	69	- 3	.3	- .1
Miami . . .	80	+ 2	1.1	-5.3	Missoula . . .	53	0	.5	-1.4	Fort Worth . . .	72	- 1	3.2	-1.4
Orlando . . .	78	0	4.7	+1.1	NEBR, Grand Island .	58	- 3	3.9	0	Galveston . . .	74	- 2	1.6	-1.2
Tallahassee . . .	72	- 3	8.4	+4.3	Lincoln . . .	59	- 4	5.9	+2.4	Houston . . .	73	- 3	4.2	- .1
Tampa . . .	77	0	.2	-2.7	Norfolk . . .	59	- 1	1.9	-1.8	Lubbock . . .	68	0	.4	-2.8
W. Palm Beach . . .	79	+ 1	4.1	-1.0	N. Platte . . .	56	- 3	3.9	+ .9	Midland . . .	69	- 4	.9	-1.2
GA, Atlanta . . .	65	- 4	7.1	+3.9	Omaha . . .	60	- 1	6.7	+3.3	San Angelo . . .	73	- 1	1.4	-1.8
Augusta . . .	68	- 4	2.6	- .4	Valentine . . .	56	- 1	3.5	+ .8	San Antonio . . .	75	0	2.7	- .8
Macon . . .	70	- 4	4.3	+1.0	NEV, Ely . . .	53	+ 3	.4	- .5	Victoria . . .	77	+ 1	1.2	-2.9
Savannah . . .	74	+ 1	1.2	-2.6	Las Vegas . . .	77	+ 3	.1	0	Waco . . .	72	- 2	3.2	-1.4
HAWAII, Hilo . . .	73	0	8.3	-1.0	Reno . . .	59	+ 4	.8	+ .3	Wichita Falls . . .	68	- 4	.7	-3.9
Honolulu . . .	77	+ 1	.9	- .1	Winnemucca . . .	58	+ 4	1.3	-1.9	UTAH, Blanding . . .	62	+ 5	1.5	+ .9
Kahului . . .	73	- 2	.6	- .1	N.H. Concord . . .	53	- 3	4.2	+ .7	Salt Lake City . . .	62	+ 3	1.7	+ .3
Lihue . . .	75	0	1.9	- .7	N.J. Atlantic City . .	59	- 2	3.1	- .4	VT, Burlington . . .	54	0	5.4	+2.4
IDAHO, Boise . . .	60	+ 2	.7	- .6	Trenton . . .	59	- 3	3.6	0	VA, Lynchburg . . .	61	- 4	3.8	+ .6
Lewiston . . .	61	+ 3	1.6	0	N.MEX, Albuquerque .	63	- 2	.7	- .1	Norfolk . . .	67	- 1	3.6	+ .2
Pocatello . . .	56	+ 1	.4	- .7	Roswell . . .	66	- 2	.7	- .6	Richmond . . .	65	- 2	3.6	- .1
ILL, Cairo . . .	65	- 4	7.6	+3.2	N.Y. Albany . . .	55	- 3	5.5	+2.0	Roanoke . . .	61	- 5	5.6	+1.8
Chicago . . .	56	- 4	4.2	+ .5	Binghamton . . .	52	- 3	3.3	- .2	WASH, Colville . . .	55	0	1.0	- .6
Moline . . .	58	- 3	7.0	+3.2	Buffalo . . .	55	0	3.0	0	Omak . . .	57	- 1	.2	- .6
Peoria . . .	58	- 4	4.5	+ .2	New York . . .	59	- 3	4.2	+ .6	Quillayute . . .	52	0	7.4	+3.0
Rockford . . .	56	- 3	7.0	+3.2	Rochester . . .	56	- 1	2.7	- .1	Seattle-Tacoma . . .	57	+ 1	1.6	- .1
Springfield . . .	60	- 4	2.6	-1.3	Syracuse . . .	54	- 4	5.6	+2.3	Spokane . . .	57	+ 1	1.3	+ .1
IND, Evansville . . .	62	- 5	5.6	+1.4	N.C. Asheville . . .	60	- 4	8.8	+5.9	Walla Walla . . .	63	+ 2	1.1	- .4
Ft. Wayne . . .	57	- 4	2.2	-1.5	Greensboro . . .	65	- 4	4.3	+1.2	Yakima . . .	59	0	.1	- .4
Indianapolis . . .	60	- 1	1.8	-2.2	Charlotte . . .	63	- 4	5.7	+2.4	W.Va. Beckley . . .	57	- 3	4.3	+ .3
South Bend . . .	56	- 3	3.6	0	Hatteras . . .	67	- 1	4.8	+ .8	Charleston . . .	61	- 4	5.4	+1.7
IOWA, Burlington . . .	59	- 3	6.7	+2.7	Raleigh . . .	65	- 3	4.0	+ .5	Huntington . . .	61	- 4	4.9	+1.0
Des Moines . . .	60	- 1	5.0	+ .9	Wilmington . . .	70	- 1	3.5	- .2	Parkersburg . . .	61	- 3	3.4	- .3
Dubuque . . .	56	- 2	5.4	+1.2	N.DAK, Bismarck . . .	54	- 2	1.8	- .2	WIS, Green Bay . . .	53	- 2	8.2	+5.1
Sioux City . . .	60	- 1	1.7	-1.5	Fargo . . .	54	- 1	1.7	- .3	La Crosse . . .	55	- 4	6.2	+2.4
KANS, Concordia . . .	60	- 3	3.1	- .8	Williston . . .	55	0	1.1	- .3	Madison . . .	54	- 2	5.3	+2.0
Dodge City . . .	59	- 5	.7	-2.5	OHIO, Akron-Canton .	57	- 3	4.0	+ .1	Milwaukee . . .	51	- 2	3.4	+ .2
Goodland . . .	57	- 2	3.0	+ .6	Cincinnati . . .	58	- 6	3.5	- .3	WYO, Casper . . .	51	- 2	1.0	-1.0
Topeka . . .	61	- 3	4.4	0	Cleveland . . .	57	- 1	4.8	+1.3	Cheyenne . . .	51	- 2	.3	-2.2
Wichita . . .	62	- 4	.5	-3.5	Columbus . . .	60	- 2	3.4	- .6	Lander . . .	53	0	.9	-1.8
KY, Lexington . . .	60	- 5	8.2	+4.3	Dayton . . .	59	- 3	3.1	- .6	Sheridan . . .	52	- 2	.5	-2.1
Louisville . . .	62	- 2	7.0	+3.1	Toledo . . .	56	- 2	2.9	- .1	P.R. San Juan . . .	---	---	---	---

Continued from page 7  
sorghum planted up to a stand. Other crops planted: Sweet potatoes 65%, 71% last year, normally 68%, condition good; and peanuts 90% planted. Wheat 45% and oats 55% harvested. Hay harvest about 25% complete, 34% last year, condition good. Rice good. Peaches fair to good. Truck crops mostly fair. Pastures and livestock good.

**MISSOURI:** Cool first half, showers and thunderstorms rather general. Last half dry with temperatures warming to near 90° for first time this season. Temperatures from 1° to 2° subnormal except exactly normal in bootheel. Rainfall amounts in thunderstorms quite variable, ranging from less than 0.25 in to almost 4.00 in some local areas. Average rainfall ample to promote good crop growth but by weekend warm weather rapidly drying out soil. Fieldwork: 3 days suitable. Corn 76% seeded, virtually finished last year. Soybeans 33% planted, 84% completed year ago. Cotton 88% planted, completed last year. Grain sorghum 37% seeded, 86% planted in 1972. First cutting alfalfa 60% complete, 88% year ago. Alfalfa 50% damaged by weevil. Wheat mostly fair condition, 50% turning color, 83% turning color in 1972. Pastures mostly good condition. Soil moisture 45% adequate, 55% surplus.

**MONTANA:** Temperatures averaged 1° above west to 6° above southwest and central, highest mid-week, with cooling over weekend. Low to freezing isolated areas western half Sunday night. Most significant moisture west and northeast. Elsewhere dry, windy. Soil moisture sufficient eastern third, short northwest and northcentral, short to adequate elsewhere. Potatoes and dry beans virtually planted, corn planting 90% complete. Small grains generally good condition eastern third and southcentral, fair to good elsewhere. Sugar beets 40% thinned with condition good southcentral and southeast, fair to good elsewhere. Winter wheat 45% in boot. Alfalfa weevil damage light. Cattle and sheep 90% moved to summer ranges. Stockwater supply adequate southwest and southeast, shortages central and northcentral and some other areas.

**NEBRASKA:** Week began widespread thundershower activity. Rainfall heaviest southcentral 0.75 to 1.50 in, elsewhere 0.50 in or less. Cool early week, hot and dry beginning midweek, highs mid to upper 90's. Rains early week delayed fieldwork, 4 days suitable. Corn planting virtually complete which is normal, condition mostly good to fair and being cultivated and rotary hoed. Soybeans 91% planted, 92% a year ago, 85% average; condition good to excellent. Sorghum planting 90% complete, 87% 1972, 89% average; condition good to fair. Winter wheat condition 9% excellent, 79% good, 12% fair; much headed, scattered reports rust and mosaic. Hot, strong winds end week, soil moisture supplies limited stress. Sugar beet thinning at peak, some irrigated for germination. Growers planting dry beans. Alfalfa good to excellent, harvesting continues. Wild hay good to excellent. Topsoil supplies adequate to short and particularly short parts of panhandle. Subsoil supplies adequate to surplus. Fieldwork consisted planting soybeans and sorghums, cultivating and rotary hoeing row crops, harvesting alfalfa, applying fertilizer and herbicides. Range and pasture conditions improved, mostly average to above. Livestock doing well making good gains. Flies becoming problem where uncontrolled.

**NEVADA:** Temperatures 5° to 9° above normal. Extremes: 20°, Mountain City; 110°, Las Vegas and

Logandale. Only trace precipitation, at Reno. Fall and spring planted crops in good condition with growth and development progressing favorably as warm weather prevails. Spraying for alfalfa weevil continues. Range feed good to excellent. Cattle and sheep remain in good condition.

**NEW ENGLAND:** Temperatures above normal, highs in 80's and 90's by Friday. Precipitation averaged 0.25 in with up to 0.80 in over southern Maine. Planting and fieldwork active. About 30% to 50% silage corn planted north, 75% plus south. Much hay and haylage made. Potato planting very active Aroostook Co., Me., about 75% planted, intend finish this week. Some reseeded south. Apple scab worse many areas than 1972. Cranberry bloom heavy. Nearly all open crown tobacco and all shade tobacco planted.

**NEW JERSEY:** Very warm week, temperatures 8° to 10° above normal, ranging from low to mid-90's Sunday to mid-50's Friday morning. Precipitation light, falling as scattered thundershowers. Hot weather dried soils and increased crop growth. Asparagus movement tapering off. Lettuce and escarole volumes heavy. Cabbage harvest increasing. Light beet harvest begun. Most growers have finished planting tomatoes. Planting corn, eggplant, peppers and sweetpotatoes continues. Strawberries at peak harvest. Peaches thinned. Blueberry harvest about to start. Hay making active, yields excellent. Field corn and soybean planting rapidly advancing. Barley ripening.

**NEW MEXICO:** Cool beginning of week, warming to above normal Thursday and Friday and cooling again slightly southeastern plains Saturday and Sunday. Average temperatures for week near to as much as 5° below early June normal. Scattered light showers Monday then again Saturday and Sunday with negligible rain amounts. Light winds and low humidities. Cool nights retarding crop as well as grass growth. Winds drying topsoil scattered areas. Sorghum 80% planted. Second cutting alfalfa hay 30% completed. Wheat harvest expected begin around mid-June. Barley harvest starting this week. Cotton fair to good statewide, needing warmer nights. Lettuce harvest near end Mesilla Valley. Los Lunas about to start. Onion harvest continues active Mesilla Valley, good quality. Apples thinned and in good to excellent condition. Cattle and calves mostly good condition. Poisonous weeds causing some losses. Tank water plentiful. Range condition improving, rains needed scattered areas.

**NEW YORK:** Temperatures 6° to 11° above normal, high 90° at several cities. Showers and thunderstorms rainfall varied widely; 2.50 in at Syracuse while Watertown and Bridgehampton less than 0.10 in. A few severe thunderstorms with hail and damaging winds Tuesday local areas. Wednesday evening thunderstorm produced 1.73 in rain at Schroon River in the Adirondacks. Improved weather conditions end week favorable for fieldwork and plant growth. Corn about 50% planted. Oat planting not yet complete but some intended acreage may not be sown. Wheat and oats good condition, although growth has slowed by continued high moisture levels. Most first cutting hay made into silage as poor drying conditions prevailed. Wet field conditions continued to hamper vegetable planting much of week. By end of week steady sunshine and drier air improved planting conditions and growth of vegetables already planted. About 85% potatoes planted in Steuben, Livingston and

Wyoming Counties. Most muckland potato planting at standstill most of week. Onion, celery and lettuce growth continued slow Orange County. Fruit crops making some progress but development continued slow. Grass mowing, spraying and some light pruning main orchard activities.

**NORTH CAROLINA:** Temperatures near or slightly above normal with little day to day change. Widely scattered showers. Total amounts variable: zero to 5.00 in averaging 1.00 to 2.00 in southern border counties, 0.50 to 1.00 in rest of mountains and less than 0.50 in elsewhere. Soil moisture surplus mountains; adequate Piedmont and northern Coastal Plains; short central and southern Coastal Plains. Fieldwork averaged 4.3 days. Corn doing well: 76% good to excellent, 22% fair, 2% poor. Southern Coastal Plains corn showing ill effects from shortage moisture. Flue-cured tobacco good shape, burley 67% transplanted. Over 70% soybeans planted. Growing soybeans good condition, stands excellent. Small grain harvest underway, wheat and rye 10% combined, oats and barley 20%. Peanuts good shape; cotton fair to good. Peach harvest 8% complete, ahead of normal. Sweet potatoes 60% planted.

**NORTH DAKOTA:** Temperatures near normal. Warmest first part of week with few highs near 90°. Cool late week with lows upper 30's east. Showers, thunderstorms produced precipitation ranging from 0.50 in to 1.00 in above normal west to 0.20 below normal east. Strong gusty winds over east on 3rd. Weekend showers in west improved crop and pasture prospects. Central area remains dry. Flax and row crop planting finishing up substantially ahead of last year. Small grain development ahead of normal. Pastures showing good growth in areas favored by moisture. Livestock excellent.

**OHIO:** Widespread thunderstorm activity, some funnel clouds. Many storms accompanied by strong gusty winds, heavy rain, heaviest over north. Golf-ball-size hail southern Marion County. Mostly sunny, warm, dry weather prevailed from 7th through 10th. Longest spell of dry weather since April 1. Warm throughout week, with temperatures rising into 80's every day except 6th. Overnight lows mostly in 60's. High of 91° at Toledo. Heavy rains Monday through Wednesday brought planting to complete halt. Sunshine on June 7 started drying the fields; planting resumed in a few areas on June 8. Farmers averaged over 2.0 days in fields. Soil moisture supplies 89% surplus, 11% adequate. Corn planting 75% complete, two weeks behind last year's progress. Soybeans 45% planted, 85% in 1972, normal 5-year (1968-72) average 75% planted. Tobacco 30% transplanted, normal 55%. Winter wheat 80% headed, remains in fair condition. Over 90% of wheat usually headed by June 11. Barley 80% headed, 95% in 1972 while oats 10% headed. Progress first cuttings hay crops slow; alfalfa and clo-tim 15% and 10% cut, respectively.

**OKLAHOMA:** Temperatures from 2° to 5° subnormal. Precipitation about 0.03 in panhandle to 5.50 in southeast. Weekend mostly mild and dry. East-central received few showers. Wheat harvest 5% complete compared with near 50% year ago and 20% average. Harvest will be active all areas this week except northwest, if weather permits. Yields good, but long straw and lodging slowing progress. Barley harvest well underway southwest where wind damage lowered yields. Mostly test cuttings other areas. Wet soils and widespread replanting or cotton and sorghums allowed only moderate progress planting row crops. Sorghums 50% and cotton 75% planted once.

Sorghums 20% up to stand and cotton 25% compares with 40% and 50% year earlier. Soybean planting eastern areas near standstill. Better yields from early second cutting alfalfa. Ranges providing abundant grazing and cattle in high condition.

**OREGON:** Warm, averages generally 2° to 5° above normal. Warming late week, highs in upper 80's, low 90's over interior western and all east. Lows generally in 40's and 50's. Frost reported Enterprise area. Rainfall limited to coast with amounts from 0.02 to 0.36 in. Winter cereals continue to mature. Drought area broadens. Harvest alfalfa, mixed grass--grain hay continues, supply short. Moisture shortage reducing grass seed prospects, early varieties ripening. Cherry harvest starting Milton-Freewater, The Dalles. Pickers short both area. Fruit fly control underway other areas. Strawberry harvest underway, yields, quality fair to good. Apple, pear thinning underway. Green pea harvest, poor yields. Pole beans start vine. Potatoes show good tuber set, Norgolds flowering Ontario, Rows closing Hermiston. Still planting seed potatoes. Sugar beet hoeing and thinning still underway. Ranges need moisture. Waterholes dry on central ranges. Ranchers expect short grazing season.

**PENNSYLVANIA:** Sunny, hot, humid. Temperatures 5° to 8° above normal and nearly 10° above previous week; warmest since last August. Afternoon highs generally 80's to low 90's and overnight lows in 60's. Extremes: upper 40's, 93°. Showers and thunderstorms through Wednesday produced 0.50 to 1.00 in rainfall totals most sections. Statewide, driest week since early May. Most favorable week for fieldwork this spring. Corn planting 67%. Potato planting continues. Tobacco transplanting active, problem blue mold. Hay baling active last half of week. Strawberry harvest underway. Local hail storms hit some orchards.

**PUERTO RICO:** Weather conditions generally dry islandwide except for few showers western-interior. Rainfall averaged 0.79 in or 0.81 in subnormal. Highest weekly total 4.35 in western-interior. Water rationed in various towns south. Temperatures 81° on coast and 77° interior. Extremes: 57°, 98°. Severe drought continued to affect sugarcane plantations islandwide. Coffee bean ripening but still affected by dry weather. No activity on tobacco. Pastures hurting, dry weather. Weather favored soil preparation for planting and fertilizing. Minor crops need more rain, soil preparation and planting continues. Western portion favored somewhat by few showers. Abundance of plantains and bananas western-interior.

**SOUTH CAROLINA:** Cooler and wetter than usual. Early week mostly sunny and warm, numerous general showers late week. Low pressure area moving northwest from Bahamas into southeast late week causing excessive rainfall in south. Soil moisture very short along coast to wet upper Piedmont. Tobacco good. Cotton fair to good, corn good. Soybeans 74% planted, 61% last year. Sorghum 64% planted, 51% last year. Small grains fair to good, 100% headed. Wheat 94% turned color, 71% ripe, 20% harvested, 17% last year. Oats 80% turned color, 77% ripe, 31% harvested, 23% last year. Rye 92% turned color, 83% ripe, 28% harvested. Barley 98% turned color, 86% ripe, 34% harvested, 24% last year. Grain hays good, 81% harvested, 83% last year. Pastures fair to good. Sweet potatoes 72% transplanted, 66% last year. Peaches fair to good, 9% harvested, 3% last year. Grapes good. Vegetable crops fair to good. Cucumber, snapbean, tomato picking active. Watermelons good.

**SOUTH DAKOTA:** Temperatures 2° to 7° above normal, in mid-80's to mid-90's on 7th and 8th. Lows mostly 40's and 50's. Some freezing in Black Hills. Rainfall light, 0.40 in northeast greatest amount. Soybean planting virtually complete. Sorghum planting 85% complete; normal 83%, last year 58%. Small grain development above normal. Corn height slightly below normal. First cultivation of corn, alfalfa hay harvest main farm activities. First cultivation corn 32% complete, 2 points behind normal but 11 points ahead of last year. First cutting alfalfa 11% complete, 7 points behind normal and last year. Alfalfa late and shorter than normal due to dry and cool weather with some frost damage. Livestock good.

**TENNESSEE:** Scattered showers and thundershowers with precipitation ranging from none to 2.00 in or more. Temperatures near to slightly subnormal. Extremes: 55°, Crossville 93° Memphis and Jackson. Only 2.6 days suitable for fieldwork. Soil moisture 67% surplus. Rain making haying difficult, much of crop damaged. Generally, hay low quality, but high quantity. Corn planting 80% complete, normal 95%. Soybeans only 45% planted, normal 70%. Tobacco transplanting 70% complete, normally all planted. Wheat crop 75%, oats 67%, and barley 80% turned yellow. Wheat and oats 15% to 20% and barley over 40% ripe. Progress of these crops slightly behind most years.

**TEXAS:** Scattered thunderstorms dumped above normal rain from Red River to Gulf Coast and lower Rio Grande. Ferris in northcentral, 5.25 in. Whitehouse in northeast 6 in. Deweyville in southeast 4.35 in. Mild, fair weather midweek, moist gulf air scattered thundershowers northward weekend. Temperatures remained near normal. Wheat, oat harvest satisfactory progress early week before rains stopped most activity. Some oats blown over, difficult to harvest. Yields wheat, oats vary--poor as well as outstanding. Planting cotton, sorghum, rice nearing completion. Planting peanuts, soybeans satisfactory progress before rain. Planting moisture available peanuts Cross-Timbers result recent rain. Rain needed parts upper Gulf Coast finish planting soybeans. Major crops % harvested: wheat 12, 1972 35; oats 53, 1972 84. Major crops % planted: cotton 94, 1972 96, 5-year average 91; corn 100, 1972 100, 5-year average 100; sorghum 90, 1972 94, 5-year average 91; soybeans 66, 1972 77; peanuts 51, 1972 51; rice 96, 1972 100. Lower Rio Grande Valley carrot supplies light. Cabbage, onions remain available. Cantaloupe, watermelon harvest active. Moderate supplies tomatoes, cucumber, sweet corn, peppers, okra available. Coastal Bend watermelon harvest continues active. Sweet corn, onion harvest complete. Cucumber, squash picking nearing completion. Laredo onion harvest complete. Few cantaloupe fields received light damage from rains. Winter Garden-San Antonio area onion harvest still in progress, cucumber picking remains active. Cantaloupe harvest underway. Watermelon shipments increasing. In East Texas heavy rains damaged some tomatoes, sweet potatoes. Knox-Haskell potato harvest expected to begin around mid-June. North Texas watermelons, cantaloupes blooming and setting fruit. Trans-Pecos tomatoes slow start. Onion harvest active both Presidio, El Paso Counties. High Plains onions, potatoes making good growth. Cucumbers emerged good stands. Peach harvest gains momentum most areas of State. Pecan trees set a spotty crop this year. Citrus picking almost complete, most trees requiring irrigation.

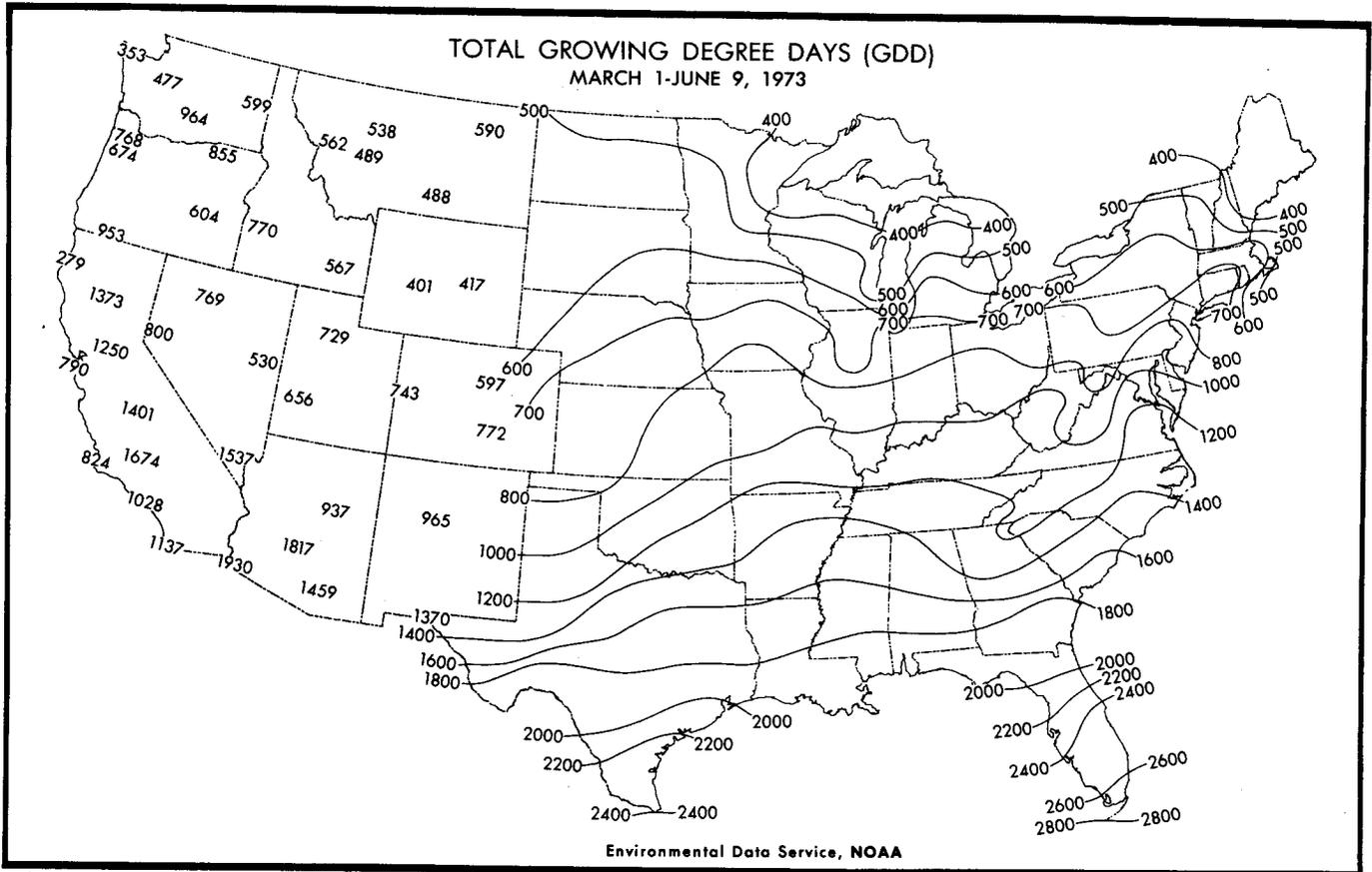
**UTAH:** Little or no precipitation. Temperatures generally near normal, but locally much above normal northwest Saturday. Soil temperature at the 4 in depth ranges from near 60° in Cache Valley to mid-60's in Salt Lake City and Richfield, mid-80's in St. George. Excellent weather favored development of grains, hay, sugar beets, fruits, vegetables, and range and pasture grasses. Soil moisture currently rated short to adequate. Irrigation water plentiful, June 1 reservoir storage at 3.8 million acre feet highest ever. Potatoes all planted north, 90% planted south. Sugar beet thinning 50% completed. Cutting first crop alfalfa hay 25% completed, tonnage prospects first crop good to excellent. Nearly 50% acreage spring wheat, oats, barley jointed, some heading out. Vegetable crops good condition except dry onions rated fair. Green pea harvest will start about June 30. Cattle and sheep thriving, range feed rated good to excellent most areas.

**VIRGINIA:** Scattered showers and thunderstorms Statewide mainly mid-week. Rainfall averaged 0.33 in. Temperatures 3° above normal, range 2° subnormal to 6° above. Killing weeds and insects, haying and planting kept farmers busy. Warm weather stimulated corn, tobacco and peanut growth. About 4.7 days suitable for fieldwork. Topsoil moisture 70% adequate. Some shortages in Piedmont; surpluses west and southwest. Planted corn in north, crop cultivated, sprayed for weeds, sidedressed with nitrogen and sprayed for armyworms. Barley 5% harvested. Oats and wheat harvest began. Soybeans 57% planted, 33% last week. Cultivated and sidedressed tobacco. Haying active especially west or mountains and in upper Piedmont. Orchardgrass quite mature. Set cabbage in Carroll County. Set sweet potatoes in Eastern Shore. Cultivated tomatoes and Irish potatoes. Pasture growth slowed but provided abundant feed. Face and heel fly population heavy.

**WASHINGTON:** Western Washington: Temperatures near normal. Precipitation late week. Vegetable crop planting continues. Squash, corn up good. Some cucumber fields replanted, soil crusting. Strawberries good shape, harvest starting. Raspberries good set, recovering winter freeze. Haying continued, rain hampered baling. Small grain heading out. Eastern Washington: Temperatures near normal. Precipitation subnormal. Fine cherry crop, some picking underway. Hand thinning apples underway. Asparagus cutting, haying continued. Wheat, barley heading. Spring grains under moisture stress. Irrigation water supplies limited, rationing planned. Yakima Project. Grasshopper counts indicate infestations, some rangelands scheduled to be sprayed. Hay, pasture, range feed supplies short.

**WEST VIRGINIA:** Thunderstorms general early week, some accompanied by heavy rain, hail and wind damage, especially Tuesday afternoon 50 mph winds Charleston and Huntington. Hail accumulation 2 in deep Randolph County. Temperatures mostly warm. Warm, sunny weather beginning and ending of period favorable for hay harvest, most active work. Soil moisture 60% adequate, 40% surplus, about 3.1 days favorable fieldwork, second highest for season. Corn planting 86% complete; potatoes and spring oats better than 95% complete. Warmer weather improved crops. Hot, dry weather June 9 and 10 accelerated hay harvest.

**WISCONSIN:** Temperatures 5° to 6° above normal, reaching into 90's by Sunday. Rainfall mostly light except a few weekly totals in excess of

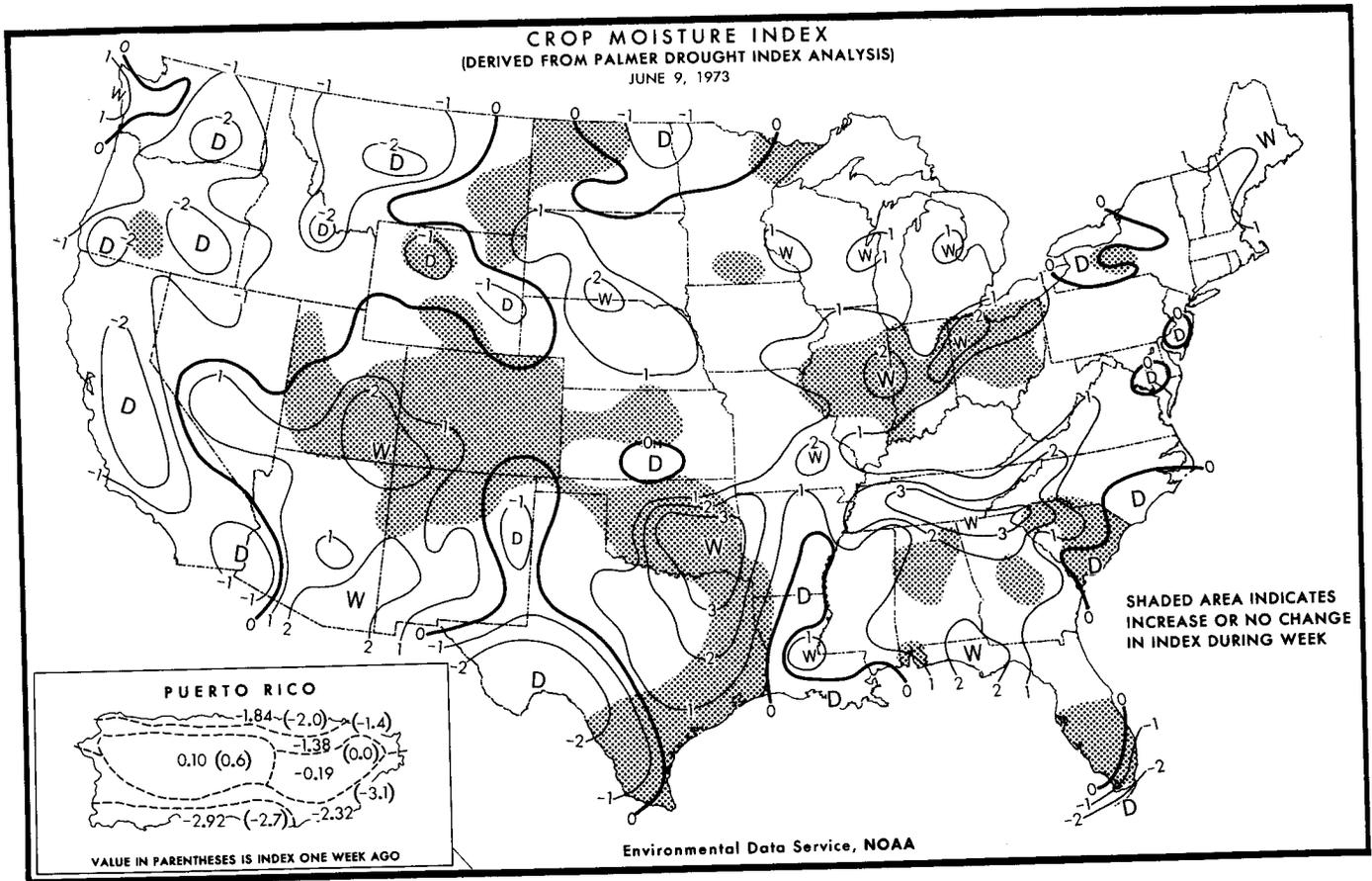


1.00 in northwest early in week. A few severe thunderstorms with large hail and strong winds some areas on Friday afternoon and evening. Intense sunshine over weekend very helpful evaporating excess soil moisture, warming soils, and boosting development of earlier planted crops. Considerable progress made planting crops. Corn 90% planted, last year 100%, normal 97%. Soybeans 50% planted, last year 98%, normal 85%. Last of oats sown. Early corn, soybeans, and oats doing well, winter grains excellent. First crop hay 5% harvested, last year 20%, normal 15%. New seedings thin with much grass, dandelions, and yellow rocket. Hay better on well drained soils, poor in lowlands. Pastures growing good. Tobacco ground being worked. Planting of vegetable crops continues

with early crops developing well. Soil moisture 33% adequate, 67% surplus.

**WYOMING:** Locally heavy rains extreme northeast, moderate rains over most of northcentral, northeast and eastcentral early week, otherwise little or no precipitation. Moorcroft reported most precipitation 1.36 in rain. Temperatures near seasonal normals, Laramie averaged 8° subnormal. Extremes: 20°, Bondurant, 95°, at Newcastle. Corn and potatoes virtually all planted, bean planting 80% finished. Sugar beet thinning 25% completed. Winter wheat approaching heading stage some early heading reported. Other activities cultivation of small grains and summer fallowing.

Standard copy for the Weekly Weather and Crop Bulletin is prepared by: Dr. Richard E. Feich, Agricultural Climatologist; Arlon M. Scott, Agricultural Statistician; John Carlin Ryan, Editor.



INDEX DECREASED DURING WEEK  
(Unshaded Areas)

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

**INDEX**

- ABOVE 3.0 SOME DRYING, BUT STILL EXCESSIVELY WET.
- 2.0 to 3.0 MORE DRY WEATHER NEEDED, WORK DELAYED.
- 1.0 to 2.0 FAVORABLE, EXCEPT STILL TOO WET IN SPOTS.
- 0 to 1.0 FAVORABLE FOR NORMAL GROWTH AND FIELDWORK.
- 0 to -1.0 TOPSOIL MOISTURE SHORT, GERMINATION SLOW.
- 1.0 to -2.0 ABNORMALLY DRY, PROSPECTS DETERIORATING.
- 2.0 to -3.0 TOO DRY, YIELD PROSPECTS REDUCED.
- 3.0 to -4.0 POTENTIAL YIELDS SEVERELY CUT BY DROUGHT.
- BELOW -4.0 EXCEPTIONALLY DRY, MOST CROPS ABOUT RUINED

**INDEX**

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

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

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

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

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



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Heating Degree Days (Base 65° F.)  
 MAY 1973

ALA. Birmingham . . . . .	48	MAINE, Caribou . . . . .	491	OKLA. Okla. City . . . . .	55
Mobile . . . . .	0	Portland . . . . .	419	Tulsa . . . . .	42
Montgomery . . . . .	18	MD. Baltimore . . . . .	191	OREG. Astoria . . . . .	357
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Winslow . . . . .	99	Marquette . . . . .	598	Philadelphia . . . . .	176
Yuma . . . . .	0	S. Ste. Marie . . . . .	574	Pittsburgh . . . . .	264
ARK. Fort Smith . . . . .	59	MINN. Duluth . . . . .	526	Scranton . . . . .	354
Little Rock . . . . .	3	International Falls . . . . .	393	R.I. Providence . . . . .	268
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Eureka . . . . .	393	Rochester . . . . .	353	Columbia . . . . .	47
Fresno . . . . .	14	St. Cloud . . . . .	348	Greenville . . . . .	61
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Stockton . . . . .	12	Vicksburg . . . . .	---	Rapid City . . . . .	350
San Diego . . . . .	61	MO. Columbia . . . . .	142	Sioux Falls . . . . .	256
San Francisco . . . . .	197	Kansas City . . . . .	127	TENN. Chattanooga . . . . .	80
COLO. Denver . . . . .	290	St. Louis . . . . .	121	Knoxville . . . . .	97
Grand Junction . . . . .	139	Springfield . . . . .	146	Memphis . . . . .	82
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CONN. Bridgeport . . . . .	290	Glasgow . . . . .	277	TEX. Abilene . . . . .	43
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FLA. Apalachicola . . . . .	0	Helena . . . . .	374	Beaumont . . . . .	2
Ft. Myers . . . . .	0	Kalispell . . . . .	383	Brownsville . . . . .	0
Jacksonville . . . . .	7	Miles City . . . . .	281	Corpus Christi . . . . .	0
Key West . . . . .	0	Missoula . . . . .	535	Dallas . . . . .	---
Lakeland . . . . .	0	NEBR. Grand Island . . . . .	240	Del Rio . . . . .	0
Miami . . . . .	0	Lincoln . . . . .	199	El Paso . . . . .	31
Orlando . . . . .	0	Norfolk . . . . .	221	Fort Worth . . . . .	12
Pensacola . . . . .	---	North Platte . . . . .	283	Galveston . . . . .	0
Tallahassee . . . . .	15	Omaha . . . . .	199	Houston . . . . .	5
Tampa . . . . .	0	Valentine . . . . .	297	Lubbock . . . . .	58
GA. Atlanta . . . . .	72	NEV. Ely . . . . .	376	Midland . . . . .	55
Augusta . . . . .	42	Las Vegas . . . . .	12	San Angelo . . . . .	20
Macon . . . . .	27	Reno . . . . .	198	San Antonio . . . . .	1
Savannah . . . . .	4	Winnemucca . . . . .	142	Victoria . . . . .	0
IDAHO, Boise . . . . .	182	N.H. Concord . . . . .	370	Waco . . . . .	13
Lewiston . . . . .	173	N.J. Atlantic City . . . . .	202	Wichita Falls . . . . .	47
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Preliminary reports from airport locations, except those marked U for urban and R for rural.  
 \*Estimated.