

# Weekly Weather & Crop Bulletin

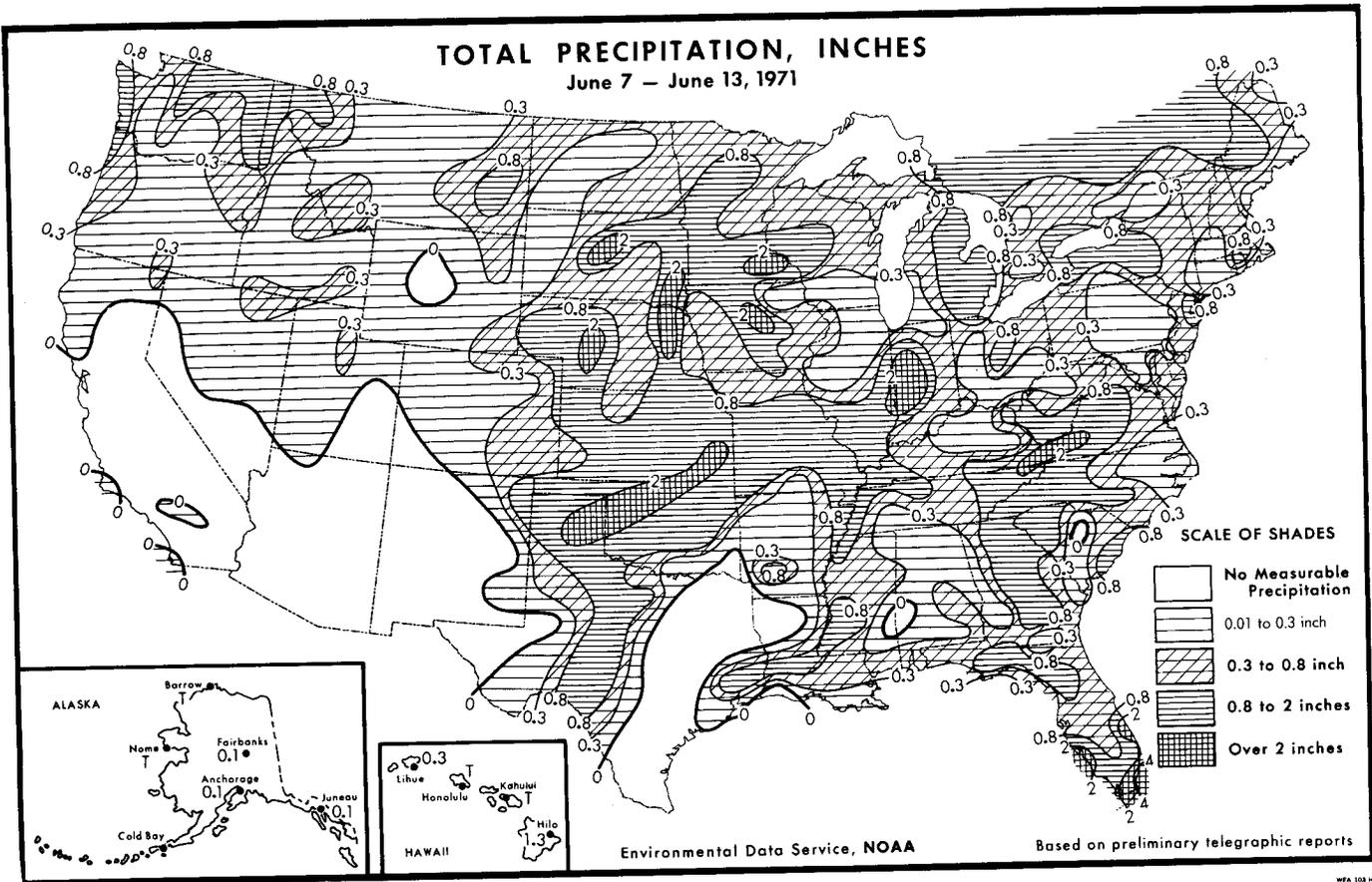
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Edited by Lucius W. Dye

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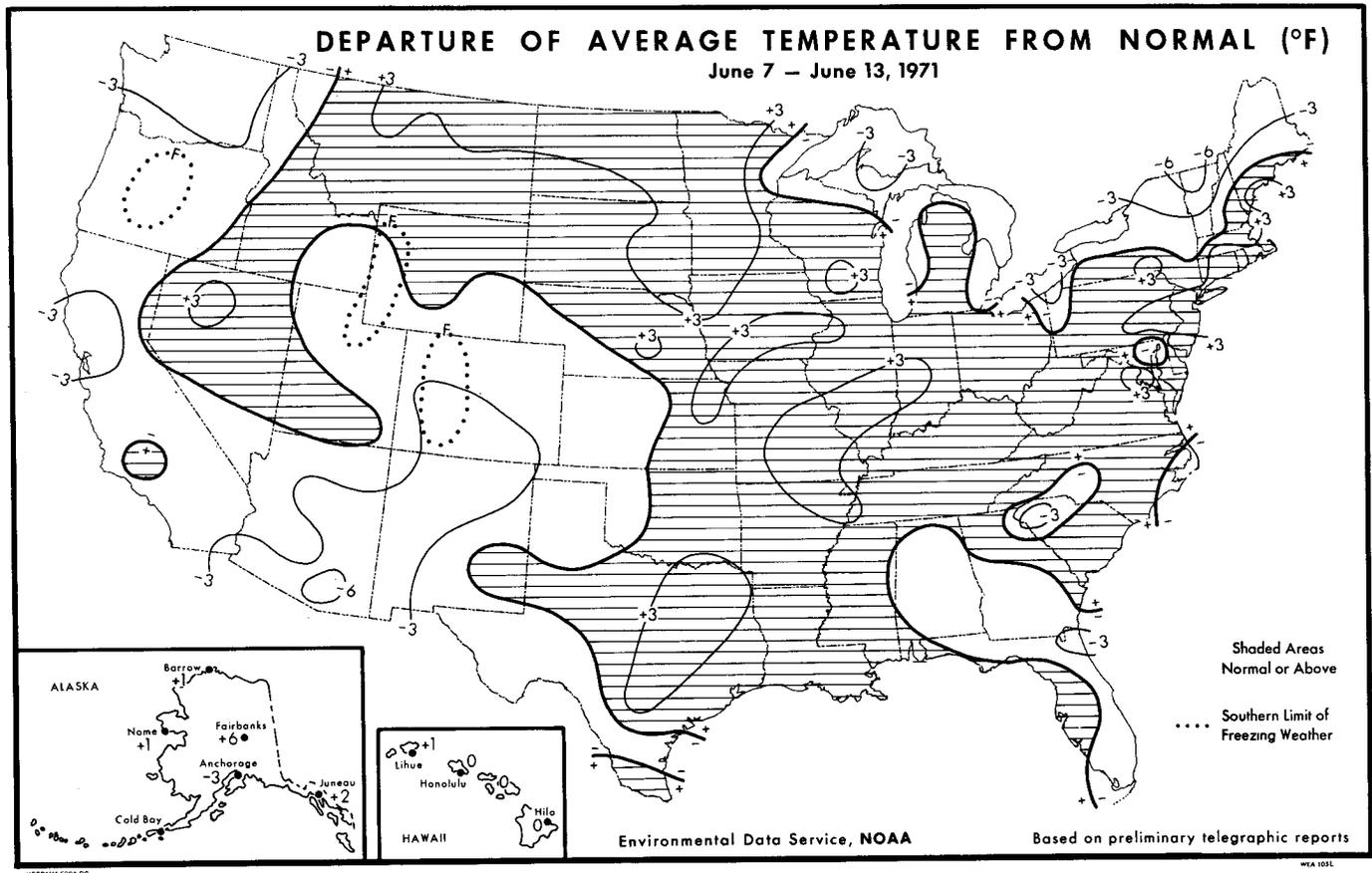
## NATIONAL WEATHER SUMMARY

**HIGHLIGHTS:** Stormy weather occurred over the central Great Plains through much of the week. Comfortable temperatures prevailed over the Northern States. The South experienced hot humid afternoons.

**PRECIPITATION:** Southerly winds brought warm humid air northward over the central and eastern portions of Country early in the week. Showers and thunderstorms became widespread in the warm moist air mass. The thunderstorms were especially severe in the central Great Plains. Hail as large as baseballs fell in some spots. North Platte, Nebr., received 2.05 inches of rain in 2 hours Wednesday afternoon and 3.23 inches fell at Pierre, S. Dak., in 6 hours. The heavy rains from South Dakota to Kansas produced flash flooding along many small streams, substantial rises on several major streams, and saturated adjacent lowlands. Strong

winds accompanied some of the thundershowers. Albion, Nebr., registered gusts to 80 m.p.h. The high winds downed trees and power lines and tornadoes destroyed buildings at scattered locations. No reports of deaths nor injuries from the tornadoes have come to our attention. Although the storms were most severe from the Dakotas and Minnesota to Texas, the thunderstorm activity was widespread from the central and southern Great Plains to the southern Atlantic Coastal States. Some storm totals in Georgia exceeded 3.00 inches.

The weekend brought more severe weather to mid-America. A tornado destroyed a hangar and damaged some airplanes near Adrian, Tex., Friday afternoon. Hail as large as baseballs caused glass damage at Frankfurt, Ind. Torrential rains flooded some lowlands in western Illinois. Friday evening a tornado damaged property 28 miles



south southeast of Tucumcari, N. Mex. More severe thunderstorms occurred from Nebraska to Texas late Saturday. The gusts accompanying a thunderstorm at Hastings, Nebr., reached 76 m.p.h., hail accumulated to 6 inches in depth 12 miles north of Sidney, Nebr., and heavy rains flooded highways 10 miles east of Sidney.

**TEMPERATURE:** Afternoon temperatures early in the week ranged from the 50's and 60's over the northern Great Plains to the 80's and 90's over the Central and South. At Dickinson, N. Dak., the mercury climbed no higher than 53° Monday afternoon but reached 102° at Wichita Falls and Cotulla, both in Texas. Lebanon, N.H., registered 94° Monday afternoon. One of the coolest spots in the Nation was Leadville, Colo., where the thermometer dropped to 29° Monday morning. A high-pressure ridge moved into the northern Great

Plains dropping minimum temperatures into the 40's and 50's. Grand Forks, N. Dak., and Bemidji and Duluth, Minn., registered 40° Tuesday morning. On Wednesday the mercury at Duluth plunged to 35°. The cool air spread eastward and the latter part of the week was sunny and pleasant from the northern and central Great Plains to the Atlantic coast. Temperatures continued in the 80's from Kansas and Oklahoma to Virginia and North Carolina and the 90's across the South from southeastern California to South Carolina.

Moist tropical air continued over the eastern half of the Nation over the weekend. The heat and humidity caused some discomfort especially across the South. Comfortable weather prevailed in the Far West.

L. W. Dye

## NATIONAL AGRICULTURAL SUMMARY

**AGRICULTURAL HIGHLIGHTS:** Wheat harvest slowed by thundershowers. \* Soybean planting nears completion in Corn Belt. \* Corn makes good growth. \* Cotton acreage lost to hail in Texas.

**SMALL GRAINS:** Continued thundershower activity in the central and southern Great Plains hampered harvest of winter wheat. Light hail damage was experienced in this same area. Harvest of winter wheat was about 1/3 complete in Texas and Oklahoma, somewhat behind usual progress. Harvest in Kansas was just starting when rains came. The crop continued to fill well. Hessian fly, lodging, leaf rust, and weeds as well as heavy rains and hail have caused some problems.

Oat harvest in Texas was 3/4 complete, about 10 percent ahead of last year. Winter wheat, barley and oat harvest was active throughout the southern portion of the Nation. Harvest of small grains had reached as far northward as Virginia and Tennessee. Louisiana growers had about 3/4 of their winter wheat and oats in the bin. Florida growers completed harvest.

Winter wheat and spring-planted grains are growing and developing nicely in the northern region of the Nation. Moisture was sufficient and warmer temperatures were a welcome aid in speeding growth of the crop.

**CORN:** Condition of the corn crop is good throughout most of the Corn Belt. The crop is doing well and continues to respond to warm temperatures and adequate moisture conditions. Height of the crop is slightly above average conditions. Weeds are also doing well and farmers have been occupied with spraying and cultivating when weather permits. Dry weather in Michigan has caused some replanting while southeast Wisconsin growers are experiencing uneven stands. Moisture supplies are good in the South Central and Atlantic states except in Louisiana where the crop needs rain. The crop in south Alabama is in the silk stage.

Very light infections of Southern Corn Leaf Blight have been found in Iowa. It is also present in Illinois. Blight has also been noted primarily on volunteer plants in Indiana, Ohio, North Carolina, Georgia, Tennessee, Nebraska, Florida, Mississippi, Kentucky and Alabama. Minor infections have been found in Texas and South Carolina.

**SOYBEANS:** Planting is nearly complete in the major producing states. Iowa growers have most of their crop in and 90 percent of the fields have emerged. Some replanting was caused by hail and local flooding. A few fields remain to be planted in southern Illinois. Elsewhere in the Corn Belt, soybeans were over 90 percent planted except in Missouri, Nebraska, and Kansas. The condition of the crop is good in this area.

In the South Central and Atlantic states, planting has been slow. Dry soil delayed planting in Georgia. Additional moisture would be welcomed in Louisiana.

**COTTON:** After being plagued by drought, hail and heavy rains caused much loss of cotton stands on the Texas High Plains. Texas growers have 88 percent of the crop in the ground which compares with 94 percent last year. Condition of the crop in South Carolina was mostly fair. Growers were applying insecticides. In the San Joaquin Valley, the crop was showing improvement and squares were

showing in the Desert. Cool nights slowed growth in New Mexico and Arizona. In the Yuma district, the crop was mostly squared and some fields were blooming.

**OTHER CROPS:** Sorghum planting progressed slowly in the southern Great Plains but made some progress. Oklahoma growers neared the 3/4 mark and planting in Colorado was nearly complete. Kansas farmers had 61 percent of their crop planted. Idaho potato growers had nearly all of their acreage planted. Early fields were off to a good start, rows were beginning to close in the most advanced fields. Weed spraying was a popular activity in Aroostook County, Maine potato fields. Sweet potato planting was 75 percent complete in Louisiana but was hampered by dry soils and growers discontinued planting in some areas. The crop was 2/3 planted in Mississippi. Condition of the crop was fair to good. Haying was active over all the Nation. First cuttings were nearing completion in the South. Second cutting was underway. Thinning of sugar beets was active in Colorado, Montana, and parts of California. In the Desert area of California beet digging was active. Michigan dry bean growers had about half of their anticipated acreage planted, slightly less than the progress in Colorado. Dry bean planting in California continued.

The rice crop looks good in Louisiana but could use warmer weather in California. Transplanting of burley tobacco was nearly completed in North Carolina but continued slow in Kentucky and was only 2/3 complete. The condition of the crop in South Carolina was good to excellent.

**Fruits and Nuts:** Bing cherry harvest past its peak in California. In Washington the cherry crop was developing well. Some winter injury is evident to sweet cherries in eastern New York. Grapes are suffering from mildew in California although the Thompson seedless variety appears normal. Vineyards were in bloom in New York. Citrus tree condition in Florida is good. The almond and walnut crops were making good growth for California growers while pecan prospects in Texas were only fair.

**Vegetables:** Asparagus harvest was nearing completion in Michigan and New Jersey. Local supplies of strawberries were available in most areas as harvest advanced northward. Harvest of green peas was active over most of the country. Rain hampered harvest in Washington and Oregon.

Supplies of vegetables and melons were plentiful in the southern major producing areas. The tomato crop in South Carolina suffered severe hail damage.

**PASTURES AND LIVESTOCK:** Pastures benefitted from the warmer temperatures and adequate moisture supplies over most of the Nation. Continued short range supplies were experienced in the drought area of the Southwest which forced ranchers to continue supplemental feeding and water hauling for livestock. Movement of herds to higher elevations for summer grazing was active during the week. Utah ranchers had moved 80 percent their cattle and sheep to summer rangeland. Branding and docking of cattle and sheep was active in Wyoming.

Phillip L. Doctor  
Agricultural Statistician

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., June 13, 1971

States and Stations	Temperature °F		Precipitation Inches		States and Stations	Temperature °F		Precipitation Inches		States and Stations	Temperature °F		Precipitation Inches	
	Average	Departure*	Total	Departure*		Average	Departure*	Total	Departure*		Average	Departure*	Total	Departure*
ALA,Birmingham . . .	77	- 2	.3	-.6	New Orleans . . .	80	0	.3	-.7	OKLA,Okla. City . . .	77	0	1.7	+.6
Mobile . . .	81	0	.5	-.9	Shreveport . . .	82	+ 2	0	-.8	Tulsa . . .	78	+ 2	1.2	+.2
Montgomery . . .	78	- 1	.6	-.2	MAINE,Caribou . . .	54	- 4	.3	-.6	OREG.Astoria . . .	55	- 2	1.0	+.2
ALASKA,Anchorage . . .	51	- 3	.1	-.1	Portland . . .	64	+ 3	.1	-.6	Burns . . .	56	- 2	.2	0
Barrow . . .	32	+ 1	T	-.1	MD,Baltimore . . .	70	- 1	.4	-.4	Medford . . .	61	- 2	.2	-.1
Fairbanks . . .	64	+ 6	.1	-.2	MASS,Boston . . .	69	+ 2	.5	-.3	Pendleton . . .	62	- 2	.4	+.1
Juneau . . .	54	+ 2	.1	.7	Chatham . . .	62	---	.2	---	Portland . . .	60	- 1	.3	-.1
Nome . . .	46	+ 1	T	-.2	MICH,Alpena . . .	59	0	1.8	+1.1	Salem . . .	58	- 2	.6	+.2
ARIZ,Flagstaff . . .	54	- 4	0	-.1	Detroit . . .	67	- 2	1.0	+.3	PA,Allentown . . .	71	+ 3	.2	-.7
Phoenix . . .	80	- 2	0	0	Flint . . .	65	0	.9	+.1	Erie . . .	62	- 4	.7	0
Tucson . . .	75	- 7	T	0	Grand Rapids . . .	66	0	.5	-.3	Harrisburg . . .	74	+ 4	T	-.8
Winslow . . .	69	- 3	0	-.1	Houghton Lake . . .	63	+ 2	.9	+.1	Philadelphia . . .	75	+ 5	.5	-.1
Yuma . . .	80	- 5	0	0	Lansing . . .	66	0	1.9	+1.1	Pittsburgh . . .	68	+ 1	.8	-.1
ARK,Fort Smith . . .	78	+ 1	.1	-1.0	Marquette . . .	55	- 4	.7	-.1	Scranton . . .	69	+ 2	.3	-.6
Little Rock . . .	79	+ 1	.1	-.8	Muskegon . . .	64	- 1	.1	-.5	R.I.Providence . . .	69	+ 4	1.5	+.9
CALIF,Bakersfield . . .	76	+ 1	0	0	S.Ste.Marie . . .	56	- 1	.9	+.1	S.C.Charleston . . .	80	+ 1	1.2	-.1
Eureka . . .	54	- 2	.1	-.1	MINN,Duluth . . .	57	- 1	.8	-.2	Columbia . . .	80	+ 1	T	-.8
Fresno . . .	72	- 1	0	0	Internatl Falls . . .	63	+ 4	.7	-.1	Greenville . . .	75	- 3	1.3	+.6
Los Angeles . . .	66	- 1	0	0	Minneapolis . . .	69	+ 3	.9	0	S.DAK,Aberdeen . . .	68	+ 3	.8	-.1
Red Bluff . . .	72	- 3	0	-.1	Rochester . . .	68	+ 2	2.1	+1.1	Huron . . .	70	+ 4	.4	-.5
San Diego . . .	64	- 2	T	0	St. Cloud . . .	68	+ 4	.6	-.5	Rapid City . . .	64	+ 1	.1	-.7
San Francisco . . .	58	- 3	T	0	MISS,Jackson . . .	80	+ 2	1.1	+.2	Stoux Falls . . .	70	+ 4	2.1	+1.0
Stockton . . .	69	- 3	0	0	Meridian . . .	79	0	T	-.9	TENN,Chattanooga . . .	78	0	.6	-.2
COLO,Denver . . .	63	- 2	.2	-.2	MO,Columbia . . .	76	+ 3	1.7	+.6	Knoxville . . .	76	+ 1	1.1	+.4
Grand Junction . . .	67	- 3	T	-.1	Kansas City . . .	77	+ 2	1.4	+.2	Memphis . . .	80	+ 3	1.4	+.5
Pueblo . . .	67	- 3	.4	+.1	St. Louis . . .	77	+ 4	1.9	+.9	Nashville . . .	76	0	.9	+.1
CONN,Bridgeport . . .	70	+ 3	.2	-.6	Springfield . . .	76	+ 3	1.4	+.1	TEX,Abilene . . .	80	0	.9	+.3
Hartford . . .	71	+ 4	.3	-.5	MONT,Billings . . .	63	0	.2	-.5	Amarillo . . .	73	- 2	2.1	+1.4
D.C.Washington . . .	76	+ 3	.2	-.5	Glasgow . . .	65	+ 4	T	-.4	Austin . . .	86	+ 5	T	-.8
FLA,Apalachicola . . .	80	0	.1	-1.1	Great Falls . . .	62	+ 4	T	-.8	Beaumont . . .	---	---	---	---
Ft. Myers . . .	80	0	2.1	0	Havre . . .	63	+ 3	T	-.6	Brownsville . . .	84	+ 2	0	-.8
Jacksonville . . .	78	- 3	.6	-.9	Helena . . .	58	0	T	-.6	Corpus Christi . . .	80	- 2	0	-.6
Key West . . .	82	0	1.3	+.4	Kalispell . . .	57	0	.8	+.1	Dallas . . .	86	+ 5	T	-.8
Lakeland . . .	79	- 2	2.1	+.6	Miles City . . .	66	+ 2	1.7	+1.1	Del Rio . . .	82	- 2	1.6	+1.0
Miami . . .	79	- 2	5.9	+4.2	Missoula . . .	58	+ 1	.2	-.3	El Paso . . .	79	- 2	0	-.2
Orlando . . .	81	0	.4	-1.2	NEBR,Grand Island . . .	73	+ 4	.6	-.3	Fort Worth . . .	84	+ 4	T	-.8
Tallahassee . . .	78	- 2	1.0	-.5	Lincoln . . .	75	+ 4	.3	-.8	Galveston . . .	81	0	0	-.6
Tampa . . .	80	0	.5	-1.2	Norfolk . . .	71	+ 2	3.0	+2.0	Houston . . .	81	0	.2	-.6
GA,Atlanta . . .	77	+ 1	.8	-.1	North Platte . . .	67	0	3.2	+2.4	Lubbock . . .	77	0	.7	0
Augusta . . .	78	0	.4	-.2	Omaha . . .	72	+ 2	.4	-.8	Midland . . .	80	- 1	T	-.4
Macon . . .	80	- 1	1.3	+.6	Valentine . . .	68	+ 2	.8	0	San Angelo . . .	82	0	1.8	+1.4
Savannah . . .	81	+ 2	.3	-.8	NEV,Ely . . .	58	+ 1	.1	0	San Antonio . . .	87	+ 5	T	-.7
HAWAII,Hilo . . .	74	0	1.3	-.3	Las Vegas . . .	80	- 1	0	0	Victoria . . .	83	+ 2	0	-.7
Honolulu . . .	78	0	T	-.1	Reno . . .	60	+ 1	0	-.1	Waco . . .	85	+ 4	0	-.7
Kahului . . .	77	0	T	0	Winnemucca . . .	63	+ 3	T	-.2	Wichita Falls . . .	83	+ 2	.4	-.4
Lihue . . .	78	+ 1	.3	-.1	N.H.Concord . . .	65	+ 1	.5	-.3	UTAH,Blanding . . .	64	0	T	-.1
IDAHO,Boise . . .	66	+ 2	.2	0	N.J.Atlantic City . . .	72	+ 3	.5	-.2	Salt Lake City . . .	64	- 1	.4	+.2
Lewiston . . .	62	- 1	.9	+.4	Trenton . . .	73	+ 3	.3	-.6	VT,Burlington . . .	57	- 6	.4	-.4
Pocatello . . .	59	- 2	.5	+.2	N.MEX,Albuquerque . . .	70	- 4	0	-.1	VA,Lynchburg . . .	73	+ 1	1.4	+.5
ILL,Cairo . . .	79	+ 2	1.6	+.6	Roswell . . .	78	+ 1	T	-.2	Norfolk . . .	76	+ 1	.2	-.5
Chicago . . .	71	+ 2	.3	-.7	N.Y.Albany . . .	66	- 1	.6	-.1	Richmond . . .	74	0	.6	-.2
Moline . . .	74	+ 4	.5	-.5	Binghamton . . .	66	+ 4	.9	0	Roanoke . . .	72	0	2.8	+1.9
Peoria . . .	72	+ 1	.1	-.9	Buffalo . . .	64	0	1.7	+1.1	WASH,Colville . . .	56	- 4	.8	+.4
Rockford . . .	70	+ 1	.1	-.9	New York . . .	74	+ 3	1.0	+.2	Omak . . .	59	- 5	1.1	+.7
Springfield . . .	76	+ 3	.3	-.8	Rochester . . .	64	- 1	1.3	+.7	Quillayute . . .	51	- 5	1.3	+.5
IND,Evansville . . .	77	+ 2	.6	-.3	Syracuse . . .	66	- 1	1.7	+1.0	Seattle-Tacoma . . .	56	- 3	.2	-.2
Fort Wayne . . .	70	0	.4	-.7	N.C.Asheville . . .	72	+ 1	.9	+.1	Spokane . . .	57	- 3	1.4	+1.0
Indianapolis . . .	73	+ 3	2.2	+1.1	Charlotte . . .	76	- 1	.8	0	Walla Walla . . .	62	- 4	.5	+.2
South Bend . . .	70	+ 2	.2	-.7	Greensboro . . .	74	0	.6	-.2	Yakima . . .	59	- 4	.1	-.1
IOWA,Burlington . . .	73	+ 2	.2	-1.1	Hatteras . . .	73	- 2	.1	-.8	W.VA,Beckley . . .	67	0	1.1	+.1
Des Moines . . .	73	+ 4	.8	-.3	Raleigh . . .	75	+ 1	.2	-.6	Charleston . . .	72	+ 1	.7	-.1
Dubuque . . .	69	+ 2	.6	-.4	Wilmington . . .	77	0	.5	-.4	Huntington . . .	71	0	1.2	+.2
Sioux City . . .	74	+ 4	.3	-.8	N.DAK,Bismarck . . .	66	+ 3	.3	-.5	Parkersburg . . .	72	+ 1	.2	-.8
KANS,Concordia . . .	72	- 1	1.4	+.3	Fargo . . .	66	+ 3	.4	-.3	WIS.Green Bay . . .	65	+ 1	.6	-.2
Dodge City . . .	73	0	.9	+.2	Williston . . .	65	+ 4	.4	-.3	La Crosse . . .	69	+ 1	1.5	+.5
Goodland . . .	68	- 1	1.4	+.8	OHIO,Akron-Canton . . .	68	0	.5	-.5	Madison . . .	68	+ 3	T	-1.0
Topeka . . .	77	+ 4	1.5	+.4	Cincinnati . . .	73	0	.5	-.5	Milwaukee . . .	64	+ 2	.3	-.6
Wichita . . .	75	0	1.4	+.4	Cleveland . . .	68	+ 1	.7	-.1	WYO,Casper . . .	61	0	T	-.3
KY,Lexington . . .	72	0	.2	-.9	Columbus . . .	71	+ 2	1.5	+.6	Cheyenne . . .	59	- 2	.5	0
Louisville . . .	75	+ 2	.2	-.7	Dayton . . .	70	0	.2	-.8	Lander . . .	61	+ 1	0	-.4
LA,Baton Rouge . . .	82	+ 2	.6	0	Toledo . . .	67	0	.8	-.1	Sheridan . . .	61	+ 1	.1	-.5
Lake Charles . . .	82	+ 1	0	-1.1	Youngstown . . .	65	- 1	.5	-.4	P.R. San Juan . . .	83	+ 3	.2	-1.0

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

## CONDENSED STATE SUMMARIES

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

**ALABAMA:** Partly sunny, warm, and humid with scattered thundershowers through Thursday. Mostly fair and hot Friday through Sunday with very few showers. Temperatures for week much warmer than usual. Rainfall generally light to moderate but local amounts ranged from a trace to more than 2.00 inches. Showers and warm temperatures promoted good crop growth. Crop development still considerably behind last year. Soil moisture short in several north, few southern counties; otherwise adequate. Fieldwork interrupted by showers but overall progress fair to good. Earliest cotton squaring, insect damage light, growers applying insecticides. Early corn reached silk stage in southern counties. DEW Line confirmed presence Southern Corn Leaf Blight. 5 additional counties: Mobile, St. Clair, Randolph, Montgomery, and Bullock; all T Cytoplasm volunteer plants. Early peanut fields pegging, prospects good. Soybeans 68% planted, 11% behind year ago. Virtually all small grains mature, 27% harvested; sharply behind last year. Late spring Irish potato harvest nearing completion. Hay cutting active. Livestock mostly good.

**ALASKA:** Except for near normal southern portions of Kenai Peninsula, temperatures were warm with no freezes at night. Range was from 84° at Fairbanks to 33° at Kenai. Heavy rains fell southern Kenai Peninsula. Elsewhere all amounts well below normal. Thunderstorms with lightning in interior created minor fire problems. Soil moisture supply generally short. Oats and barley planting for grain nearly completed. Potato and commercial vegetables planting nearing completion. Mixed grain for silage about 85% planted. Prospects for grass, hay, and pasture fair to poor in Matanuska Valley. Growth of grasses and most crops slow due to continued low temperatures. First cutting hay up to 3 weeks behind normal. Evidence of winterkill to tame grasses in Matanuska Valley more evident as time progresses. Several acres of topsoil Tanana Valley severely damaged by high winds. Fire danger high most area of Railbelt.

**ARIZONA:** Temperatures below normal over State again most of week. Strong winds and blowing dust most agricultural sections during week. No measurable precipitation. Cotton development still behind normal. Most fields squaring Yuma area, small amount of blooming. Squaring beginning central areas. Small grain harvest full swing central, southwest areas, just starting southeastern area. Sorghum making good growth most areas. Plantings and preparation for plantings following small grains continues. Safflower seed set, development satisfactory. Sugar beet harvest continues active. Cantaloupe harvest slow but increasing Yuma area, fruit set, quality very good. Cantaloupes Salt River Valley making good progress. Lettuce harvest full swing Cochise County. Limited grapefruit harvest Salt River Valley on demand basis. Citrus groves Yuma and Salt River Valley good condition. New crop fruit developing well. Ranges generally poor condition. Many ranchers doing supplemental feeding. Water being pumped and hauled many areas.

**ARKANSAS:** Warm humid week with average temperatures upper 70's extreme north to low 80's elsewhere. Daily extremes 58° to 100°. Showers mostly over weekend and only isolated heavy central and east section. West Little Rock wet with little over 2.00 inches. Many sections less than 0.10 inch for week. Favorable growing conditions improved most crops. Soil moisture variable; mostly adequate, a few wet counties northeast; driest north-central, west-central, and south. Cotton late but now growing good; condition poor to fair but improving. Cultivation and weed control active. Rice growing well, progress about normal. Soybeans over 80% planted, good stands, rapid growth and generally clean fields. Corn and sorghum growing well. No Southern Corn Leaf Blight. Oat and wheat combining underway, becoming very active next few days. Hay making in full swing. Fruit and vegetable prospects continue good. Early peach harvest in progress. Tomato and cucumber harvest just beginning. Pastures providing ample grazing, virtually all areas.

**CALIFORNIA:** Warmer, although average temperatures were still slightly below normal. Greatest negative departures occurred in Coachella, Imperial and Colorado River Valleys. Light precipitation extreme north and widely scattered light showers mountain areas of south coast on 9th. Barley harvest mostly complete Desert areas; becoming active San Joaquin, light Sacramento Valley. Wheat active Desert; started San Joaquin. Alfalfa cutting continues active; underway extreme north. Sugar beet digging Desert; weeding, thinning elsewhere. Cotton improving San Joaquin; squares showing Desert. Corn growth improving central valley. Rice suffering from cool weather. Safflower progress good. Milo and dry bean planting continues. Deciduous fruit and nut crops continue slow development due cool weather. Grapes suffered from mildew. Thompson seedless appear normal; Perlette variety 75% harvested. Harvest cherries past peak; quality excellent. Harvest other tree fruits picking up momentum. Prunes, clingstone peaches, apples, pears developing normally. Almonds and walnuts making good growth. Harvest Valencia oranges increasing; fruit size, quality good. Picking lemons heavy. Harvest avocados continues. Ranges very good higher elevations. Some sheep moving stubble fields. Milk production up slightly. Egg production normal. Honey production lower due cool weather. Broccoli and cauliflower continue moderate volume Central Coast. Cantaloupe harvest began June 8 Palo Verde. Digging Desert carrots complete; harvest Salinas and San Joaquin Valley increasing volume. Desert onion harvest complete; harvest San Joaquin Valley increasing. Digging potatoes increasing Kern County. Strawberry harvest active. Tomatoes started Kern County. Watermelon picking began June 12 Palo Verde.

**COLORADO:** Near normal temperatures east; cool in and near mountains. Shower activity most areas except dry central, west, and southwest. Precipitation light and spotty except in extreme northeast and extreme southeast where totals were 0.50 to over 1.00 inch. Warmer temperatures promoted seed germination and crop development most areas. Light hail damage to crops east and northeast.

Limited moisture most areas with drying winds. Topsoil moisture short to adequate. Condition small grains good. Winter wheat and barley 94% headed, 30% and 27% turning color, respectively. Sorghum 79% seeded, 49% emerged. Corn 94% emerged. Sugar beet thinning 62% complete. Dry beans 54% seeded, 35% emerged. First cutting alfalfa 45% complete. Ranges and pasture mostly good condition. Livestock condition good to excellent.

**FLORIDA:** Widespread showers and thunderstorms prevailed over the State. Temperatures were slightly below normal due to widespread afternoon cloudiness. Precipitation averaged 1.00 inch over north and 1.50 inches to 2.00 inches elsewhere. Rainfall amounts over 4.00 inches reported in some heavy showers. High winds and some hail were reported. Miami Airport reported 2.90 inches of rain on Friday with over 2.00 inches occurring in 1 hour. Weekly rainfall total for Miami was 5.92 inches. Lack of moisture still affecting many field crop areas. Wheat harvest is complete. Soybean planting active. Shade tobacco harvest active, flue-cured now underway. Improved soil moisture will improve pastures. Cattle and calves fair to good. Citrus tree condition good. Small amounts of plant bloom. New crop sizing well. Vegetable harvest rapidly declining. Most supplies remaining are from north-central areas northward. Sweet corn, melons in volume supply. Moderate supply of celery, eggplant, and pepper available. Everglades celery, sweet corn supply nearly completed.

**GEORGIA:** Rainfall ranged from light to locally excessive in scattered showers. Heaviest amounts occurred in lower coastal area where Sapelo Island had 5.50 inches and Brunswick Airport had about 4.00 inches. Many areas received less than 0.25 inch while others were missed entirely by showers and continued very dry. Some places had their last significant rainfall on May 15. Hot except where showers held afternoon highs down. Highs mostly in high 80's and 90's. Lows in 60's and low 70's except in mountains where readings were slightly lower. Averages ranged from slightly above to slightly below normal. Scattered showers benefited soil moisture some areas. Rain still needed. Warm weather favorable for crop development and harvesting of hay, grain, tobacco, and peaches. Cultivation active. Insect and disease control widespread on peaches, apples, vegetables, peanuts, cotton, and pecans. Tobacco and truck crop harvest advanced. Peach movement behind last year. Planting grain sorghums, soybeans, and sweet potatoes delayed due to dry weather. Fire blight hurting apples and pears. Fertilizing row crops and pastures active. Corn blight restricted to volunteer corn in Bacon County and T Cytoplasm indicator plants at Coastal Plain Experiment Station at Tifton.

**HAWAII:** Rainfall light Kauai, Maui, and Oahu but light to moderate east Hawaii. Soil moisture maintained by heavy irrigation. Harvesting of sugarcane normal, pineapple harvesting on uptrend. Banana supplies continued light but papayas steady. Ample vegetable supplies. Watermelon increasing with further increases expected next 2 weeks. Cattle and pastures fair to good condition.

**IDAHO:** Temperatures were up about 5° to average normal or slightly below. Precipitation varied from light to locally heavy in all sections of State. Highest totals north ranged 0.85 to 1.20 inches, southwest 0.65 inch, south-central 0.50

to 0.70 inch, and east 0.70 to 0.90 inch. Crop growth continues slow especially north and south-east. Some hay damaged. Green peas for processing harvest starting north. Sweet cherries beginning to turn color, start of cherry harvest expected 21st. Winter wheat ranges from early boot in east, to boot and early heading in south-central and north to mostly headed in southwest. Spring grains less advanced. Planting of potatoes in final stages in eastern Idaho. Early fields off to a good start. Most advanced plantings, rows beginning to close.

**ILLINOIS:** Warm and humid week. Temperatures averaged 5° above normal. Some daily maximums in high 90's. Scattered afternoon thundershowers most days somewhere in State. Rainfall by districts ranged from 0.10 inch in east to 0.80 inch in northwest. Corn good to excellent most areas, stands mostly good, average height 12 inches, most advanced corn averaged 24 inches. Southern Corn Leaf Blight present southern part of State. Nearly all 1971 soybean acreage planted, some left to plant south. Condition good to excellent. Weeds causing problem. Wheat good to excellent. Crop nearly headed and filled, 65% turning yellow. Oats good to excellent, development progressing well, 20% blooming. Alfalfa hay good to excellent, 70% 1st crop cut. Red clover hay good to excellent, 60% 1st crop cut. Pastures good to excellent. Most fruits and vegetables good to excellent over State. Soil moisture reported short 52%, adequate 44%, surplus 4%. Average 6 work days, activities cultivating corn and soybeans, haying, applying pesticides, planting soybeans.

**INDIANA:** Warm, good growth week. Mid-80's to low 90's early and late in week and 70's to low 80's midweek. Week averaged up to 3° above normal. Some heavy rains scattered through State. Heaviest in northwest and central where amounts 1.00 to over 3.00 inches. Some storm damage 11th from hail, heavy rain and wind. Also lightning caused fatality and destroyed factory by fire. Humid early and late in week with predominant southerly air flow 3 to 4 days. Driest in south-east, averaging less than 0.50 inch rain. 5 days suitable for fieldwork. Topsoil and subsoil moisture adequate. Corn planting nearly done. Corn 8 inches high; 6 inches average. Southern Corn Leaf Blight found in volunteer corn in 8 counties, mostly southwest. Soybeans 90% planted, 75% average. Soybeans 3 inches high. Wheat 95% headed, few fields in southwest ripe. Oats 45% headed, 20% average. Few fields of barley combined. Alfalfa hay 45% cut 1st time, 55% average. Clover 20% cut, 40% usual. Pastures fair to mostly good.

**IOWA:** Warm humid week with scattered showers. Rainfall amounts generally less than 0.50 inch except locally to 1.00 inch or more. Rain past week slowed fieldwork and weed control. Condition corn mostly good, ranges from fair to excellent. Ten counties are now showing some very light amounts of Southern Corn Leaf Blight development. Infection has been found in Lucas, Lee, Greene, Warren and Muscatine Counties in addition to 5 counties listed last week. Soybeans 90% emerged, condition mostly good. Weed control for corn and beans mostly good to fair. Local water erosion and hail caused slight damage and required some replanting. First cutting of alfalfa nearly 40% complete with clover 20%. Over 30% oats headed. Oats, alfalfa hay, clover hay, and pastures mostly good to excellent but range from

fair to excellent. There were 4.5 days suitable for fieldwork week ending June 11. Topsoil moisture 24%, 67% adequate and 9% short.

**KANSAS:** Wet and stormy. Precipitation generally moderate to heavy. Most areas had 0.50 to 2.00 inches. Torrential rains parts central and east-central caused flooding some streams and rivers. Locally over 6.50 inches reported. Hail and high winds produced crop damage at scattered locations. Hail to 2 1/2 inches diameter locally south-central 7th. Weekly mean temperatures averaged above seasonal eastern 1/3; near normal elsewhere. Wheat harvest barely started then shut down by rain. Will continue as fields dry. Wheat acreage 6% ripe June 12 compared with 12% year earlier and 1960-69 average of 15%. Wheat continued to fill well. Some problems with Hessian fly, hail, lodging, heavy rains, leaf rust and weeds. Planting and cultivating row crops continued where weather permitted. Sorghum acreage 61% planted, 68% year earlier and average 64%. Considerable re-planting necessary. Greenbugs bothering newly-emerged plants. Corn 15% laid by; same as last year, range 5% to 21% recent years. Soybean planting 60%, year earlier 57%, average 71%. Sugar beet growth delayed by recent wet and cold, some damage by hail. Cattle on grass doing well, marketing hogs and lambs continued. First cutting alfalfa 90% complete, 91% last year, average 89%. Second cutting alfalfa 2% complete, 7% last year. Working of fallow land somewhat behind normal.

**KENTUCKY:** Temperatures seasonal or below 8th to 10th, but most days sunny, warm, and humid with scattered thundershowers. Precipitation spotty, weekly totals ranging from 0.02 inch to 2.60 inches. Soil moisture 48% short, 43% adequate, 9% surplus. River bed land areas wet and soybean planting delayed. Soybeans 63% planted, last year 66% and 80% in 1969. Warm and humid weather favorable for corn growth; average height 14 inches. Southern Corn Leaf Blight infection identified in several west-central counties, primarily on volunteer corn. No large buildup of spores, but spores definitely overwintered in the field and in the crib. Tobacco transplanting very active, burley 2/3 set, week to 10 days later than normal. Dark types 3/4 set. Pastures good to excellent but rain needed some areas.

**LOUISIANA:** Temperatures ranged normal to 2° above. Warming trend through the week. Hot weekend. Temperature extremes 99° St. Joseph Saturday, 62° Amite Tuesday. Dry most areas. Widely scattered showers several days but most were small. Weekly rainfall total less than 0.50 inch most places. Greatest 1-day total 3.25 inches measured at Opelousas Friday morning. Fieldwork active, mostly cultivation of row crops and application herbicides. Planting of soybeans, sorghum and sweet potatoes continued. Soybeans 85% planted, sorghum 85% and sweet potatoes 75%. Dry soil stopped planting in some areas. Corn beginning to suffer from lack of moisture, all crops need rain. Sugarcane cultivation and lay-by nearing completion. Rice looks good. Topdressing continued. Harvest of wheat 70% completed, oats 75%. Harvest of peaches and vegetables active. First cutting of hay nearly complete. Pastures getting short. Livestock condition good.

**MARYLAND AND DELAWARE:** Warm and humid first 2 and last 2 days. Temperatures averaged 1° to 3° above normal. Extremes mostly 90's, 50's. Rain-

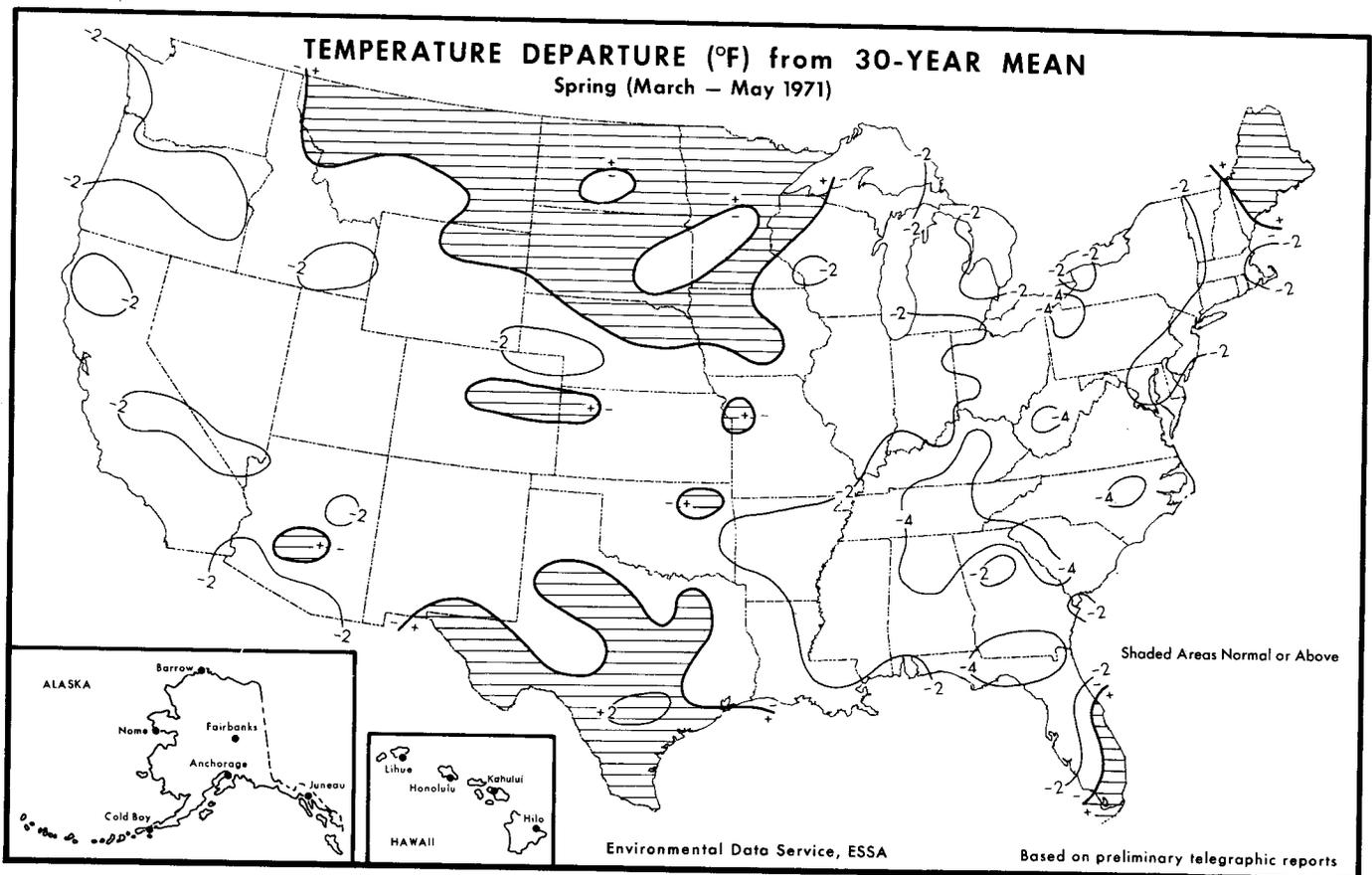
fall from afternoon and evening showers and thunderstorms on 7th, 8th, 12th, 13th totaled mostly 0.25 to 1.00 inch. Fieldwork progress hampered by showers and wet soils. Corn planting complete, some replanting. Soybean seeding slowed, 60%; 68% normal. Weed control in row crops demanding attention. Tobacco setting about week behind last year. Barley harvest started in southern shore. Processing pea harvest 25% done. Tree fruit prospects remain good, peach thinning active.

**MICHIGAN:** Temperatures for the week averaged from 1° below to 3° above normal. Warm humid conditions early in the week gave way to cool dry weather through midweek. Warmer weather with showers occurred as the week ended. Precipitation amounts varied considerably. Amounts up to nearly 2 inches were reported in portions of south-central, northeast Lower Michigan, and extreme western Upper Peninsula. Most of west Lower Michigan received from 1/4 to 1/2 inch. More rains are needed in most of the fruit and vegetable areas of west Michigan, as most of this areas continues to receive insufficient amounts of precipitation. Crop growth limited by dry soils southern half Lower Peninsula. State averaged 5.4 days suitable for fieldwork. Soil moisture very short southwest, mostly short to adequate remainder Lower Peninsula. Fall potatoes over 90% and soybeans over 80% planted. Dry beans nearly half planted. Some replanting of corn because of poor stands. Wheat 75% headed, oats starting to head. Considerable infestation of cereal leaf beetle and alfalfa weevil. Pastures supplying less than average amounts of feed southern 2/3 Lower Peninsula, average to above elsewhere. Over 15% first cutting hay made. Fruit developing well. Set of apples and peaches about average. Strawberry harvest full swing southwest. Vegetable development less than average. Asparagus 85% harvested.

**MINNESOTA:** Temperatures averaged 3° above normal. Extremes 91°, 31°. Precipitation, very wet in southern districts and southern part of central district. Rainfall amounts 2.00 to 4.00 inches common. Rest of State to north received generally less than 0.75 inch except northwest counties and eastern counties which received more than 1.00 inch. Very heavy rains on evening of 10th, 6.05 inches reported 6 miles north of Franklin which washed out roads and a bridge. Rain stopped much of fieldwork. Corn height 7 inches, normal 4 inches; soybeans 3 inches, normal 1.8 inches. Corn cultivation slowed by wet fields, 30% cultivated once, normal 46%. Weeds becoming a problem many fields. Alfalfa cut 10%, normal 18%, quality fair to good. Moisture adequate to surplus southern 2/3, adequate elsewhere.

**MISSISSIPPI:** Warmer with weekly average temperatures around normal. Rain on 2 or 3 days; most weekly totals over 1.00 inch. A 1-day amount of 2.20 inches was measured at Greenwood Wednesday morning. Lowest temperature reported was 61° at D'Lo Tuesday and at Tupelo on Thursday and Friday. Over the weekend: Some widely scattered thundershowers, otherwise sunny and warm daytime temperatures with 98° at Cleveland and Belzoni. Soil moisture very short to short southeast, mostly short to adequate lower Delta, remainder of State mostly adequate. Average of 5 days suitable for fieldwork. Winter wheat 23%, oats 34%, hay 25% harvested. Corn 95%, soybeans 66%, sorghum 78%, sweet potatoes 66% planted. Cotton 4% squaring.

(Continued on page 10)



#### SPRING WEATHER (March - May 1971)

**TEMPERATURE:** March temperatures averaged slightly above normal over Washington, Oregon, Idaho, southern Nebraska, central and eastern Kansas, and from the Mississippi River Valley to the Atlantic Ocean and slightly above normal elsewhere. April temperatures averaged above normal over the northern and central Great Plains, in a small area in central Texas, and along the east coast of the southern half of the Florida Peninsula, and below normal over most of the rest of the Nation. Temperatures in May were below normal over most of the Nation. The main exceptions included an area from central Washington to the Montana-North Dakota border, western, central, and southern Texas, and southern Florida. The State of Maine averaged warmer than normal in March and May but was relatively cool in April.

For the 3-month period, March to May, the northern Great Plains, western, central, and southern Texas, Maine, and the east coast of southern Florida were the principal warmer-than-normal areas. Spring seemed to be slow in arriving over the rest of the Nation. Parts of the Southwest and a large area from Iowa to Arkansas and eastward to the Appalachians averaged more than 6° below normal in the last week of May.

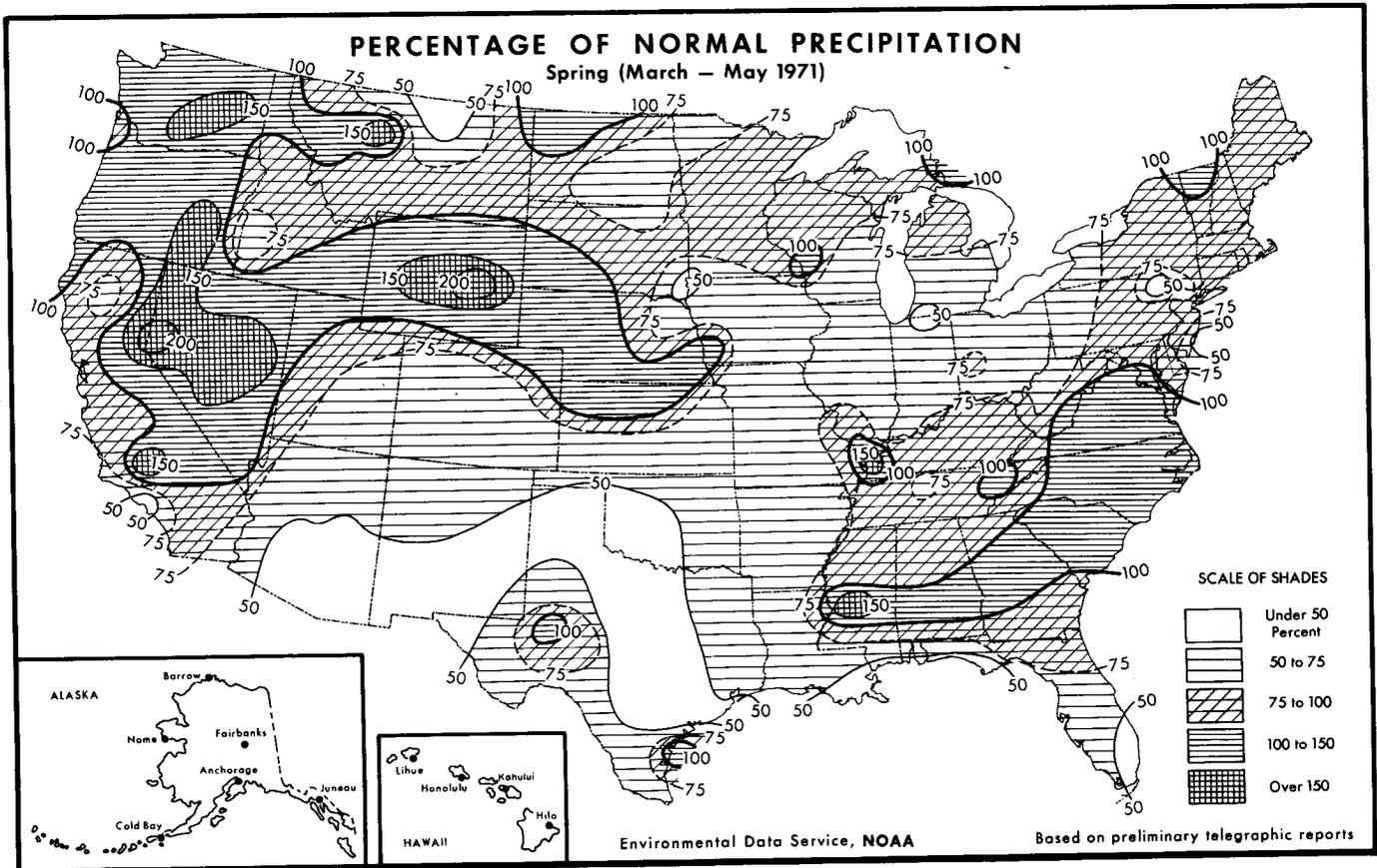
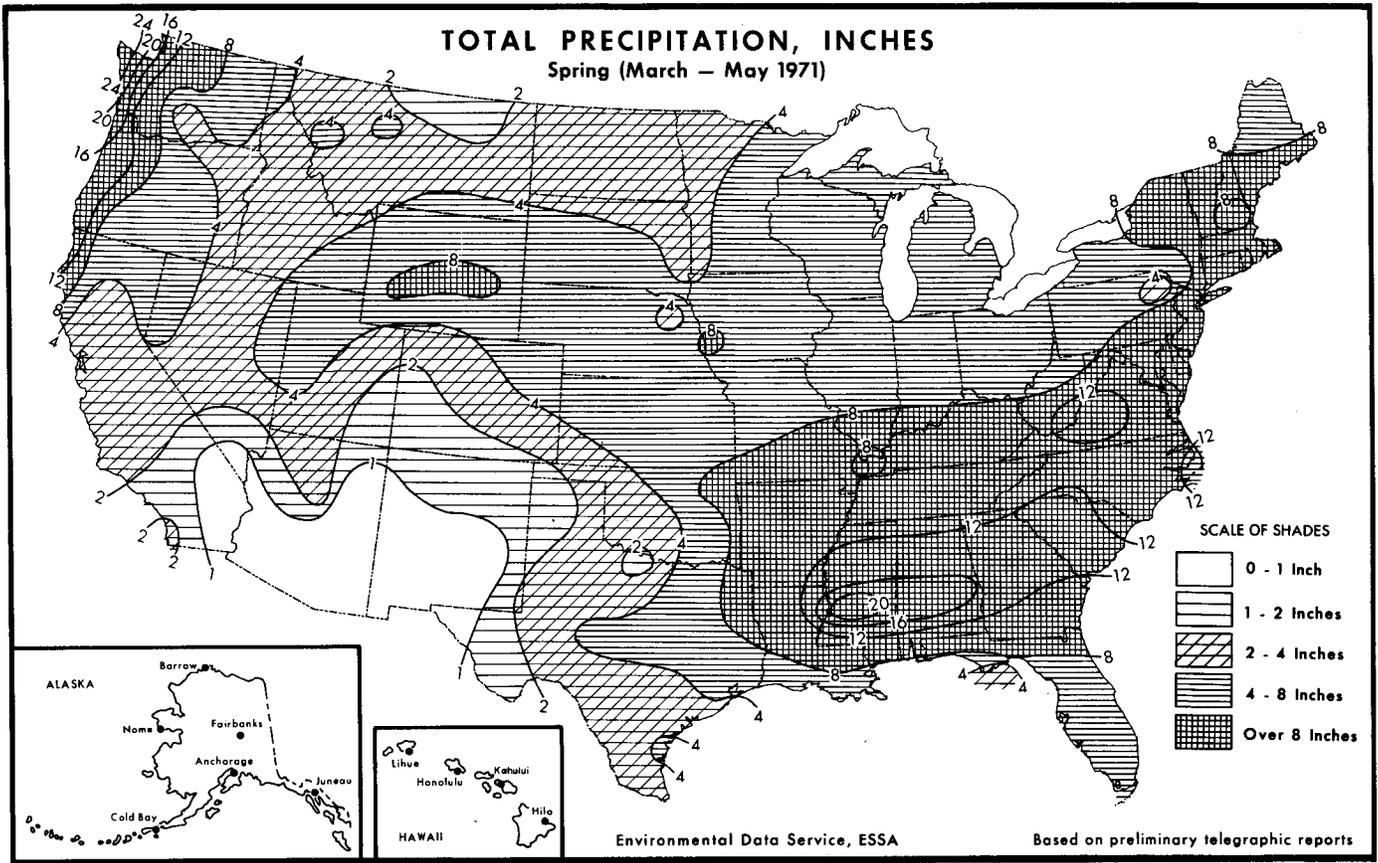
**PRECIPITATION:** A generous variety of stormy weather occurred in March. Rain fell along the northern Pacific coast with snow in the mountains. Dust and sand storms occurred in the southwestern deserts and along the western edge of the central and southern Great Plains. Snowstorms and blizzards whitened the northern and central Great Plains and eastward to New England. Freezing rain and freezing drizzle fell south of the snow

belt and violent thunderstorms, some with hail, and a few tornadoes struck the Deep South. Sunny cloudless skies prevailed over much of the Nation in the first 10 days of April. Strong winds filled the air with sand and dust in the Great Basin and along the western edge of the Great Plains. The drought in southern Florida intensified. About midmonth, some light to moderate showers fell in the thirsty Southwest and moderate to heavy showers fell in central and eastern Texas. The showers brought some relief to areas that had received little rain in several months and caused flash flooding along some of the streams. In the last 10 days of April, heavy snow fell in the central Rocky Mountains and heavy rains filled some of the streams in Nebraska and Oklahoma to bankfull. Large hail and a few tornadoes occurred in spots in the Deep South.

May precipitation included cold rain and drizzle in the Northwest, snow in the Northeast early in the month and in the Great Basin in the 3d week, heavy rains in the central Great Plains, being especially heavy in southeastern Nebraska, and, in the last week of May, showers and thunderstorms over the eastern half of the Nation. Tornadoes occurred in the central Great Plains and heavy rains in the central Appalachians sent some streams in Maryland and the Virginias out of their banks.

Three-month precipitation totals exceeded 4.00 inches in the Far Northwest, in Wyoming, Nebraska, Kansas, the eastern portions of Oklahoma and Texas and eastward to the Atlantic Ocean. The Desert Southwest received less than 1.00 inch of rain in the 3-month period.

L. W. Dye



(Mississippi continued from page 7)

Cotton poor to mostly fair. Corn, rice, soybeans, truck crops, sweet potatoes, and peaches mostly fair to good. Pastures and livestock mostly good condition.

**MISSOURI:** A very warm humid week with high temperatures in the upper 80's or low 90's and low temperatures in 60's and 70's. Numerous showers and thunderstorms during week with the heaviest rainfall in west-central portions of State. Four days suitable for fieldwork. Soybeans 87%, grain sorghum 90% planted. Wheat 76% turning color. First cutting alfalfa 4/5 harvested. Corn good condition most areas. Pastures fair to good. Soil moisture fair in most areas.

**MONTANA:** Variable rainfall, totals ranging from over 1.00 inch several points to 0.01 at Great Falls. Temperatures averaged near to slightly above seasonal normals with cool, mostly windy, days and warm nights. Rain showers favored crops and ranges. Cool days and wet weather slowed crop growth. Topsoil and subsoil moisture improved. Winter wheat 50% in boot and 5% headed. Winter wheat 15% excellent, 75% good and 10% fair. Corn nearly planted, potatoes and flaxseed over 90% planted. Sugarbeets 50% thinned. First cutting alfalfa hay beginning.

**NEBRASKA:** Warm with frequent showers and some hail. Variable crop damage in areas of hail and heavy rainfall. Farmers are planting, cultivating, and haying as field conditions permit. Corn making good growth but cutworms are a problem in a few eastern fields. Sorghum planting 88% complete compared to 94% normal. Soybeans 84% planted compared to normal of 91%. Wheat crop remains good to excellent. Harvesting 1st crop alfalfa slowed wet weather. Livestock conditions good but fly populations are increasing where uncontrolled.

**NEVADA:** Temperatures near normal to slightly above normal. Spotty precipitation northwest. Generally light and locally moderate precipitation northeast. Owyhee, 0.72 inch. One-fourth inch hail at Austin. No precipitation south. Fall- and spring-planted crops good condition, growth and development progressing favorably as warm weather prevails. Range feed good to very good. Cattle and sheep in good condition.

**NEW ENGLAND:** Wide range in temperature with many maxima in 90's at beginning of week and a few sub-freezing minima on June 11. Grafton, N. H., reported 27° with a hard freeze. Week averaged near normal in north and 2° to 4° above normal in central and south. Rain confined to few light showers over weekend and more general showers with scattered severe thunderstorms with damaging wind and hail 1 inch or more in size on June 8. A few severe thunderstorms locally in Maine also on June 7. Rain varied from none to about 3.00 inches, but mostly ranged from 0.10 to 1.00 inch. Soil moisture adequate except lighter soils local areas. Hay crop late, farmers getting into full scale haying operations. First cut yields excellent to above average. Corn planting winding up; height averages just peeking through to 5 inches. Potato growers spraying for weed control, Aroostook County. Apple and strawberry set good. Early strawberries ripening, peak bloom Maine, good set. Vegetable crops coming along, increased insect activity. Early lettuce being harvested. Cranberries near hook stage; gypsy moth found Cape Bogs, first time many years.

**NEW JERSEY:** Temperatures were above normal for 1st time in nearly 3 months. Highest readings were in low 90's on 8th and 9th, and lowest reading was 45° on 11th. Thunderstorms accounted for the spotty distribution of rainfall. Northern 1/3 averaged 0.30 inch. Northern and central interior South Jersey averaged 0.50 inch and coastal zone average 0.20 inch. Most crops making good growth response to high temperatures. Scattered showers some areas over weekend. Other areas topsoil moisture becoming short. Asparagus harvest declining. Lettuce volume heavy; cabbage, escarole and greens are increasing. Spinach, beets, cauliflower, and peas being harvested. Strawberry supplies good. Some blueberries available next week. First cutting hay continues as weather permits.

**NEW MEXICO:** Moderate rains northeastern plains. Continued dry elsewhere. Below-normal temperatures statewide except southeastern plains. Warm first part of week, 99° maximum on 8th at Carlsbad and Roswell. Coolest end of week; 30° on 12th at Ruidoso. Surface, subsoil moisture extremely short. Wheat harvest underway shortly, irrigated fair, dryland poor. Barley harvest underway south. Cotton fair, cool nights slowing growth. Harvest hay good, 2d cut starting south. Ranges generally poor; supplemental feeding, water hauling continue. Livestock fair to poor.

**NEW YORK:** Warming trend through 8th, sharply cooler trend midperiod, then warm and humid on weekend. Maximums 85° to low 90's on 7th and 8th followed by minimums 35° to low 40's Upstate and near 50° on Long Island on 10th and 11th. Showers 0.70 to 1.50 inches on 12th, 13th in west and south-central relieved 3 weeks of deficient precipitation. Thundershowers on 8th in eastern 1/3 totaled 0.40 to 0.80 inch. Nearly a full week of mild weather was marked with completion of corn planting. General cutting of hay got underway. Soil moisture adequate most areas short supplies showing up some counties. Earlier cool weather slowed growth of corn and hay. Wheat heading out while oats are fair to good. Dry beans about 1/2 planted in major areas. Potato planting complete Upstate. Some thinning of onion stands in Orange County and Elba area. First iceberg lettuce harvested in Erie County. Transplanting cauliflower underway in Catskill section. In Hudson Valley, apples are developing well while grape bloom expected next week. Some winter injury to peaches and sweet cherries. Tart cherries in good condition. Some frost damage to pears. Early varieties of strawberry being picked. In western New York, Lake Ontario area apples are in good condition. First grape bloom appeared. Pears set well. Sweet cherries set well, but tart cherry prospects not so good.

**NORTH CAROLINA:** Warm throughout period except a little cooler 10th and 11th. Highest in 90's and lowest, 50's, most areas. Widely scattered showers, most numerous 8th, 9th and weekend. Daily amounts variable zero to 2.60 inches and totals zero to 3.00 inches. A few thundershowers with hail in limited areas. Soil moisture declined, mostly adequate except short central and south. Growing crops generally good. Late soybean planting continues. Burley tobacco transplanting near completion. Hay harvest 1/3, small grain combining 1/5 complete. Farm labor adequate. Field cultivation main farming activity.

**NORTH DAKOTA:** Temperatures averaged 2° to 4° above normal. Rainfall extremely variable.

Several stations reported amounts in excess of 1.50 inches but nearby stations usually reported only few tenths. Light to heavy showers most of State some with high wind and hail. Summer fallow and haying getting underway. Small grains, row crops, and pasture making good progress. Moisture supplies adequate except some northeast areas.

**OHIO:** Daily mean temperatures were above normal on 7th and 11th through 13th. Dry and mild weather prevailed from 8th through 10th. Humid air returned on 11th, remained over weekend. Although showers and thunderstorms were common over past weekend, few locations received more than 0.50 inch of rain. Five days favorable for fieldwork. Soil moisture supply 25% short, 70% adequate, and 5% surplus. Corn 90% full stand. Soybeans 95% planted, last year and normal 85%. Transplanting tobacco 55% complete, last year 75%. Normal 65%. Alfalfa hay harvest 55% finished, last year 60%. Normal 55%. Clover-timothy harvest 35% completed, 40% last year, average 35%. Wheat 95% headed and 10% turning, normal 15% turning. Barley 95% headed, usual 100%. Oats 45% headed, last year same, usual 30%.

**OKLAHOMA:** Rainfall averaged from 0.40 inch southeast and 0.80 inch south central to 2.40 inches north-central and 2.90 inches west-central. Southwest received 1.40 inches. Temperatures averaged from 2° above normal along Red River to 1° to 3° below normal northwest. Extremes, 106° and 52°. Small grain harvest delayed due to wet weather, substantially behind year ago. Wheat, 1/3, oats 2/5, barley 3/5 harvested. Planting row crops moved ahead despite wet weather but progress still lags sharply. Sorghum crop 71%, cotton 51%, peanuts 85%, and soybeans 66% planted. Corn nearly all up to stand, about 1/3 tasseling. All row crops fair to good. Early-planted acreage being cultivated. Some replanting row crops has been necessary result either poor stands or heavy rains. First cutting alfalfa hay essentially completed, second crop responding to recent moisture and 7% complete. Pasture also responding well to recent moisture, mostly fair to good. Livestock making fair to good gains. Surface soil moisture 35% short, 62% adequate, 3% surplus. Subsoil moisture 45% adequate.

**OREGON:** Temperatures averaged slightly below normal. Minimum temperatures ranged from 34° to 49° except 30° to 32° in northern portions of Oregon. Precipitation was light, 0.15 to 0.56 inch except very light, trace - 0.09 inch in western portion of north-central and south-central Oregon, high plateau, and eastern portions of northern Cascades. Continued cool wet weather favored grain crops and promoted growth of range and pasture feeds. Hay making hampered. Green pea harvest underway, strawberry harvest starts this week, and sweet cherries next week. Livestock top condition. Livestock sales and contracting slow.

**PENNSYLVANIA:** Mild week. Precipitation mainly in form of thundershowers primarily over weekend. Due to nature of showers, weekly totals were quite variable, ranging from a little more than a trace portions of central mountains and southeast Piedmont to over 1.00 inch over western Commonwealth. Warm at start and end of week and cool midweek, averaging slightly above normal. High, 91° at Philadelphia and Renovo on 8th. Low 36° at Bradford on 10th. Weather and soil conditions generally good, fieldwork and crop growth progressing. Few scattered showers early in week, but

sunny days and drying wind erased the wet conditions. Soil moisture adequate 1/2 short 1/3. Major field activity cutting hay and corn conservation. Other activities consisted of spraying wheat and alfalfa, mowing orchards, transplanting tobacco, and picking strawberries.

**PUERTO RICO:** Heavy showers early in week along parts of northern coast and some interior and western sections. Otherwise little or no rain. Average Island rainfall 1.00 inch or 0.45 inch below normal. Highest weekly total 6.75 inches in western San Juan metropolitan area of which 6.29 inches fell on Sunday. Crop moisture conditions generally near normal except some sections of interior divisions too wet for fieldwork. Temperatures averaged 80° on coasts and 75° interior divisions with average departures of 0.5° below normal. Highest maximum 95°; lowest minimum 56°. Sugar cane harvesting and grinding operations continued with some interruptions due heavy rain showers. Overall sugar productions for 1971 season expected to be lowest in many years due low tonnage and sucrose yield. Pastures generally good to excellent islandwide. Coffee zones and minor crop areas active cultivating, fertilizing, and seeding with some minor delays due heavier showers.

**SOUTH CAROLINA:** Temperatures averaged 2° above normal. Highest was 99° at Hartsville on 6th. Showers latter half of week brought some rain at all areas. Amounts mostly under 0.75 inch except some parts of coastal plain. Heavy showers brought more than 3.00 inches in Blackville and on Edisto Island. Soil moisture short Piedmont, most of Sandhills. Adequate elsewhere. Condition tobacco good to excellent. Harvest underway Coastal area, Pee Dee. Cotton stands, condition plants mostly fair. Insecticides being applied. Corn condition good. Soybean planting 74% completed. Stands, condition good to excellent. Cultivating, applying herbicides. Sorghum stands fair to good, plant condition good, 63% planted. Peanut planting virtually complete. Sweet potatoes 76%. Peach condition fair to good. Fine quality crop expected. Harvest active Coastal Plain, Sandhills, expected to begin southern portion Piedmont this week. Small grains 80% ripened, wheat 27%, oats 49% harvested. Grain hay 82% harvested. Condition other hay crops good, pastures fair to good. Condition vegetables fair to good. Severe hail storm Charleston area damaged large acreage tomatoes. Watermelon and cantaloupe suffer, dry condition. To date, no severe outbreak of Southern Corn Leaf Blight in State.

**SOUTH DAKOTA:** Weekly temperatures averaged up to 6° above normal. Extremes ranged from 42° at Leola on 8th to 91° at Pickstown on 10th. Precipitation fell as general showers and thundershowers mostly 1st half of week with locally heavy amounts. Weekly totals ranged from less than 0.10 inch to 3.50 inches or more. Moisture supplies remain adequate or above. Surpluses north-central and southeast. Fieldwork slowed and some areas came to standstill due to recent rains. Weed control curtailed some areas and weeds becoming a problem. Alfalfa harvest slow, 20% complete. Sorghum planting 90% complete should finish this week. Winter rye and winter wheat development well ahead of normal. Ideal growing conditions for spring-seeded small grains. Presently oats, spring wheat, and barley are 78%, 62% and 73%, respectively, at or past boot stage, well ahead of normal. Corn making good growth. Livestock good condition on excellent pastures.

**TENNESSEE:** Warm and humid week. Temperatures averaged slightly above normal, both day and night temperatures becoming warmer. Scattered showers most of week, heaviest in west Tuesday and Wednesday. Weekly totals ranged from about 0.50 inch to over 2.00 inches. Warmer temperatures with scattered showers hastened plant growth. Cotton and corn cultivating underway. Wheat 25% ripe and 95% yellow, harvest begun. Oats 15% ripe and 80% yellow. Barley 60% ripe and 95% yellow, harvest continuing. Corn, 95% planted and 84% emerged, about same as last year. Tobacco planting 90% complete. Pasture conditions fair, alfalfa hay harvest 95% complete. Days favorable for fieldwork. 4.6. Soil moisture 60% adequate, 33% short and 7% surplus.

**TEXAS:** Violent thunderstorms raked the high plains almost daily during week. Locally heavy downpours of 2.00 to 3.00 inches reported. Elsewhere showers totaling 1.00 to more than 2.00 inches fell on the drought-stricken Edwards Plateau Thursday and Friday. Exceptionally heavy 24-hour amounts received during week were Shamrock 2.17 inches, Paducah 2.70 inches, and Wheeler 2.42 inches. Maximum daily temperatures soared to 100° or above in parts of southern Texas. Plains area of State received needed precipitation. Hail, heavy rains covered most of area resulting in loss of much cotton, sorghum stands. Remainder of State remained dry with light to severe drought conditions existing from Edwards Plateau southward. Small grain harvest made good progress with yields being fair. Hail damage to northern High Plains wheat crop was light to heavy. Southern portions of dry-land crops continue to suffer from moisture stress with some crops being baled, grazed, or abandoned. Irrigated crops same area continue to improve. Minor infestation of Southern Corn Leaf Blight found in Hidalgo, Cameron Counties. Primary farm, ranch activities were planting, replanting, harvest of small grain crop, irrigation, application of insecticide, tending of livestock. Percent planted to date: cotton 88, 94 year ago; corn 100, 100 year ago; sorghum 90, 91 year ago. Harvest to date: wheat 35, 40 year ago; oats 75, 64 year ago. Onion harvest nearing completion Winter Garden, Presidio area, starts other Trans Pecos areas, High Plains late June. Cantaloupe harvest nearing completion Lower Valley, active Laredo, getting underway Winter Garden, Presidio. Honeydew melon harvest declining Lower Valley, active Laredo. Watermelon harvest nearing completion South Texas, becoming active Winter Garden. Winter Garden harvest sweet corn, cucumbers. Central, East Texas harvesting cucumbers, tomatoes. Potato digging active Munday, starts High Plains July 1. Peach harvest underway but light supplies because drought. Pecan prospects fair.

**UTAH:** Few scattered showers and thunderstorms latter part week. Generally light to moderate accumulations except locally heavy few stations along Wasatch Front. Temperatures averaged near to a little below normal. Soil temperatures at 4-inch depth ranged from upper 50's Cache Valley to low 60's Salt Lake City, near 70° at Richfield and low 80's St. George. Accumulated growing degree days now range from about the same as last year to about 100 degree days behind in west and central and 40 to 100 degree days ahead in east. Crops and range grasses made moderate growth in cool weather. Severe hail damage some northern areas June 11. Winter wheat prospects good all areas except San Juan County, about half of acreage now headed out. About 60% of sugar beet acreage thinned, labor adequate. Potato crop virtually planted. Vegetable crops in good condition except dry onions Utah County and tomatoes Weber County fair. Green pea harvest will start late June. Movement of cattle and sheep to summer rangelands 80% completed, should finish in 2 weeks.

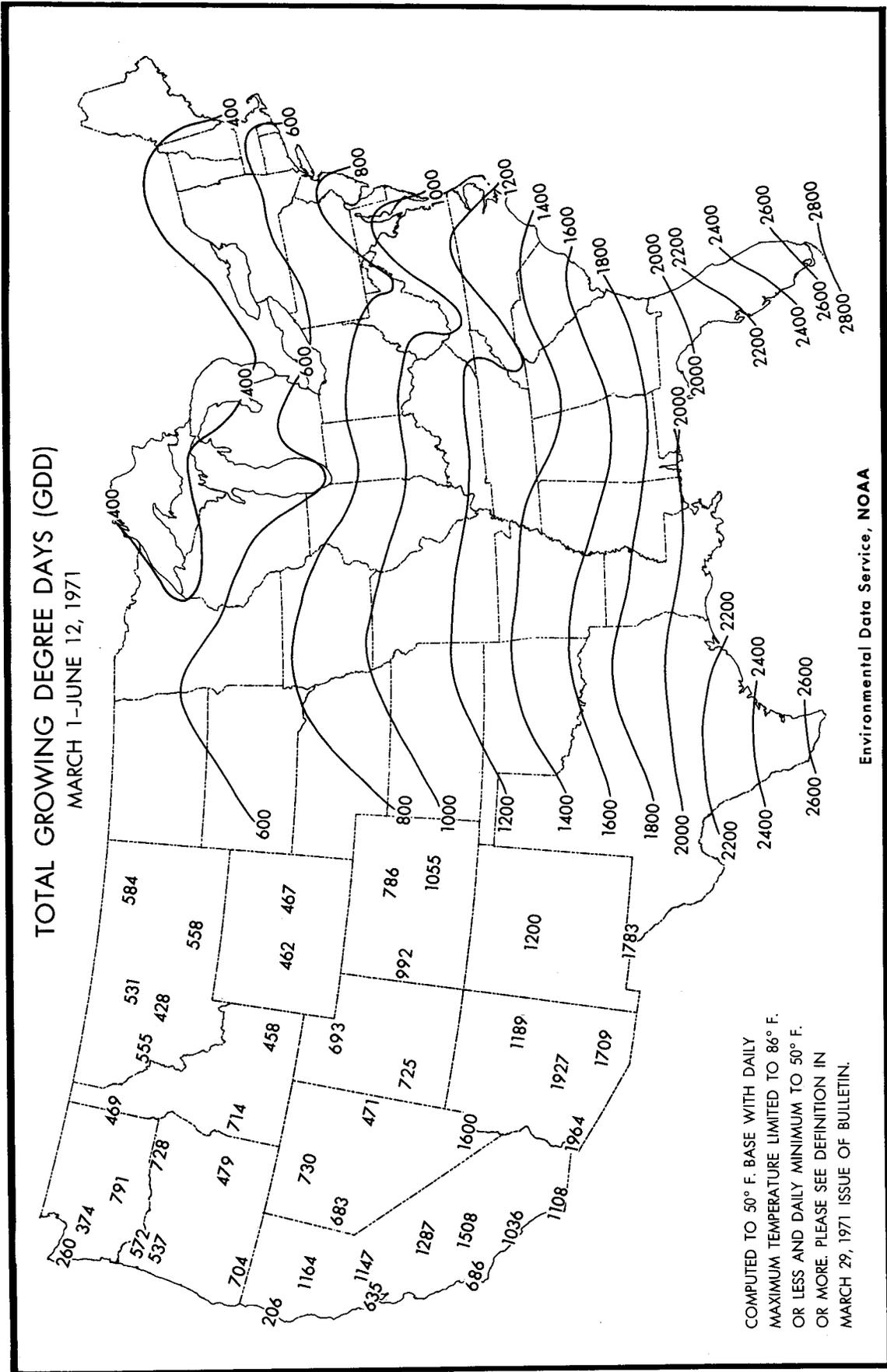
**VIRGINIA:** Temperatures above normal at beginning becoming normal to below normal at midweek. Showers and thundershowers 8th and in the mountains other days. Showers made curing hay difficult; tonnage better than expected but too mature, re-growth excellent. Planted, replanted, cultivated and sprayed corn for weeds and army worms, some fields grassy and weedy. Soybeans 2/3 planted. Some peanuts rotted and replanted. Barley 6% and oats 3% harvested. Wool and lamb marketing active.

**WASHINGTON:** West of Cascades: Cool and cloudy with rain several days. Growth of crops slowed by weather. Some corn rotting in fields. Harvesting lettuce, spinach and radishes continues. Small fruit showing good set. Strawberry harvest should begin within week. Harvesting flower bulbs started. East of Cascades: Cool and cloudy with showers. Precipitation light in central basin, 0.25 to 0.50 inch extreme eastern counties. Cherries developing well. Green pea harvest in progress with good yield and quality. Potatoes starting to bloom. Moisture conditions improved in most wheat areas. Heading of wheat and barley well along central and getting good start other areas. Spinach harvest nearly completed. Most hay cut during week damaged by rain. Spring lambs being marketed.

**WEST VIRGINIA:** Third showery weekend in a row, with temperatures above normal for a change. Over 1.00 inch rain except dry in southwestern and southern areas. Lowest temperatures June 11. Crops and pastures making good growth due to warmer weather and adequate moisture. Main farm activities: harvesting hay, planting corn, gardening, setting tobacco, and picking strawberries. Fieldwork possible 5 days. Corn 93% planted and 70% emerged. Tobacco setting making good progress.

WISCONSIN: Warm and humid weather returned latter part of week with temperatures rising into low 90's most sections. Rainfall averaged 1.50 inches over the northern 3/4 of State and less than 0.50 inch in south. First crop haying well underway and about 15% done only slightly behind last year. Quality is excellent. Corn doing well though uneven germination a problem in southeast. Weed control spotty in these drier areas. Small grains doing well and heading out south. Straw short in the dry southeast. Pastures good to excellent most of State except fair southeast. Tobacco transplanting underway, could use a good soaking rain. Potatoes good to excellent. Peas good, though some districts dry. Soil moisture 25% short and 75% adequate.

WYOMING: Moderate to heavy precipitation in northwestern mountains and Black Hills, scattered light elsewhere. Alva reported the most moisture with 2.14 inches. There were scattered hail reports. Temperatures averaged near normal statewide. Maxima mostly 70's over southwest half of State, high 70's to mid-80's elsewhere. Minima mostly 30° to 35° west of Divide and Upper Platte Drainage, high 30's and 40's elsewhere. Temperatures extremes were 86° at Basin and 27° at Foxpark. Main agricultural activities were irrigating, branding, and docking. Nearly 1/2 of sugar beets thinned and 1st cutting alfalfa begun. Winter wheat starting to head, some scattered hail damage reported. Surface and subsoil moisture adequate over entire State. Grass and prospects for grass continue favorable. Livestock good to very good.

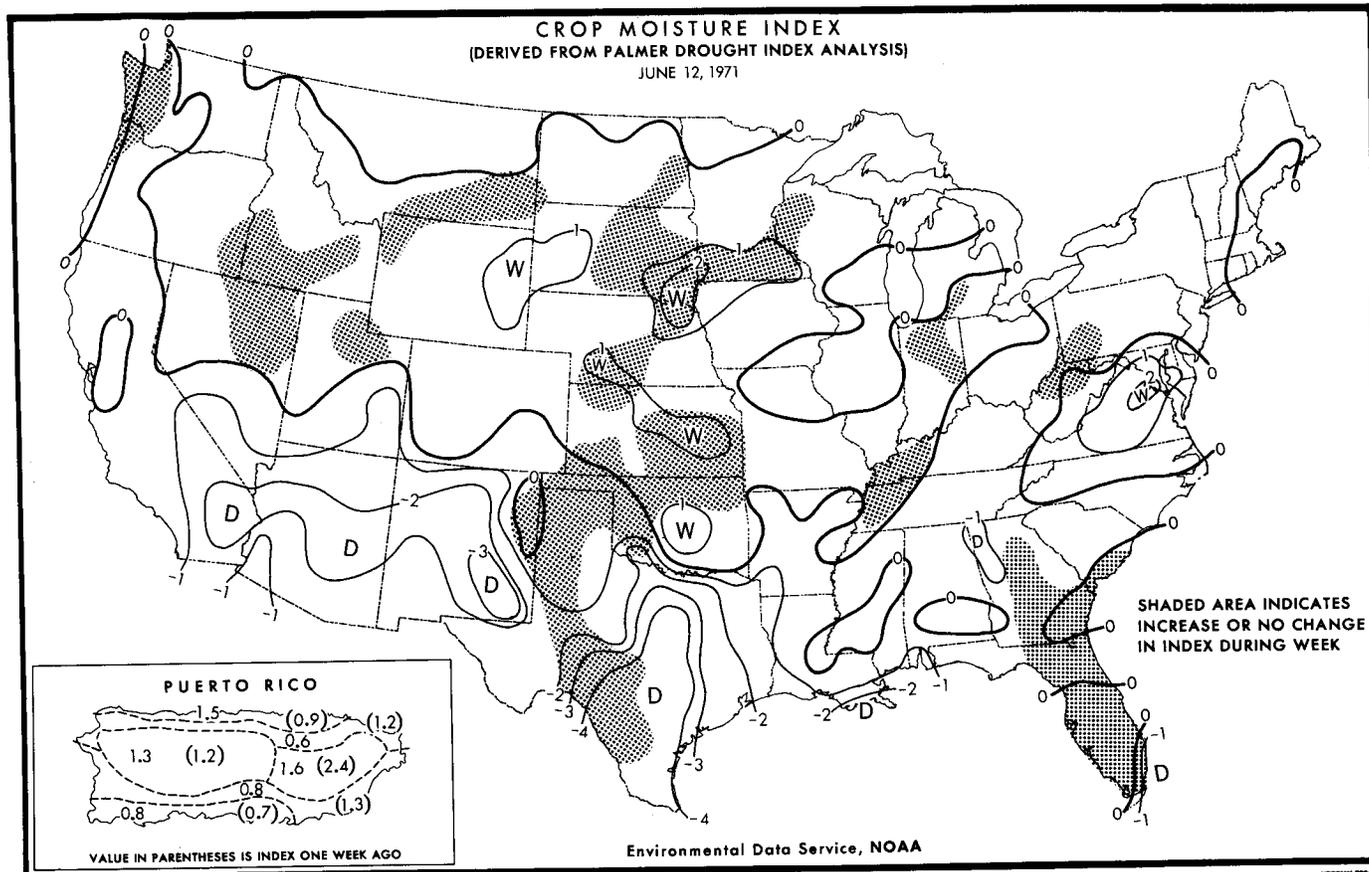


COMPUTED TO 50° F. BASE WITH DAILY  
 MAXIMUM TEMPERATURE LIMITED TO 86° F.  
 OR LESS AND DAILY MINIMUM TO 50° F.  
 OR MORE. PLEASE SEE DEFINITION IN  
 MARCH 29, 1971 ISSUE OF BULLETIN.

Environmental Data Service, NOAA

USCGM 5284-02

WCA 108X



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.

DROUGHT EASED IN NORTHERN TEXAS-OKLAHOMA

Substantial rain fell over the drought areas of northern Texas and western Oklahoma last week, bringing noticeable improvement in crop moisture conditions. In central and southern sections of Texas, however, the drought intensified. Quite dry conditions continue through New Mexico to southern California. In much of this area dry-land crops are in generally poor condition. Some sections experienced blowing dust and sand.

Moisture conditions continue to improve over southern Florida and increased shower activity in recent weeks has brought CMI values to near normal, except along the immediate southeast coast. Continued rainfall is needed, however, to restore moisture in many field-crop areas.

J. J. Rahn

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

## IMMEDIATE - U. S. Weather Report

This Report Will be Treated in All Respects as Letter Mail

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