

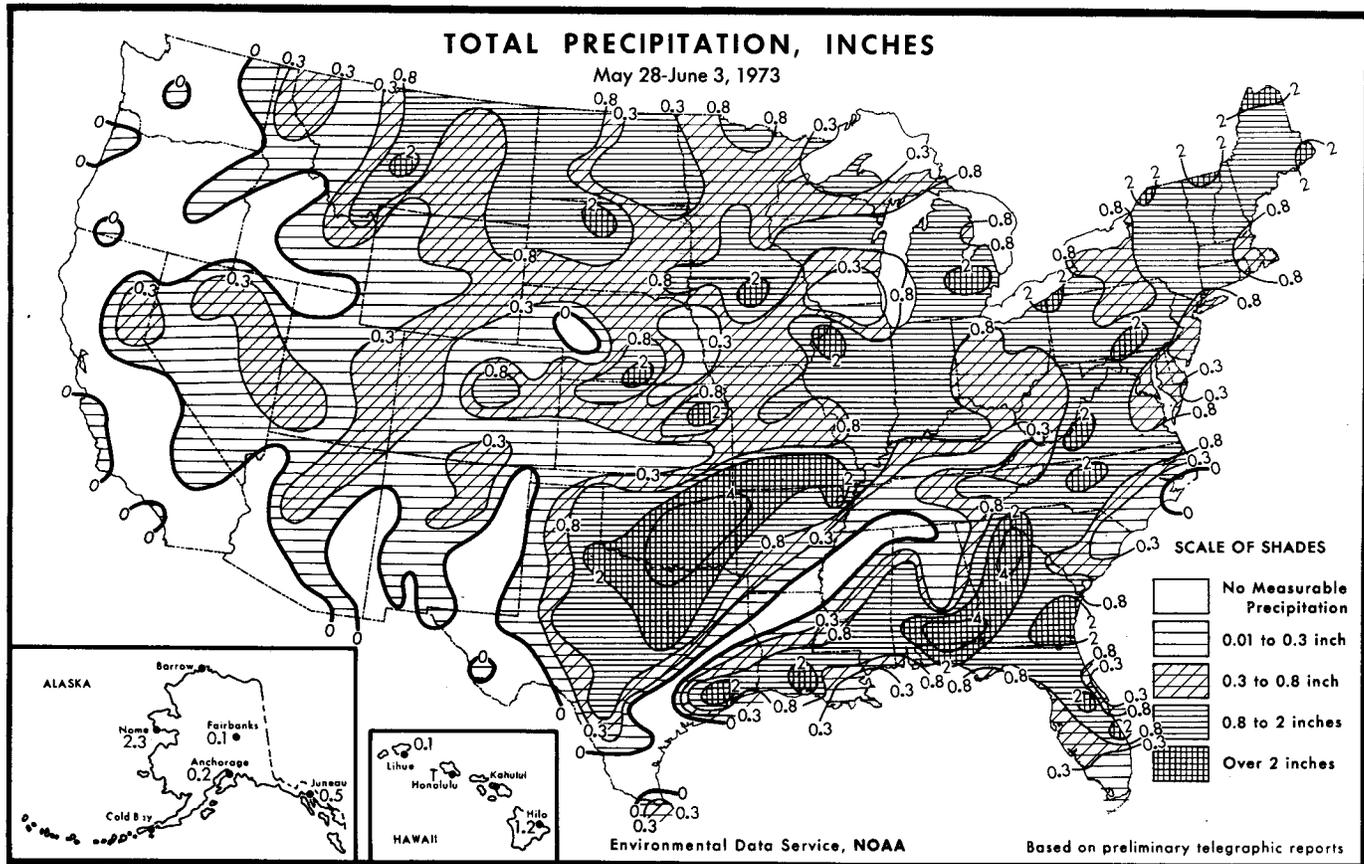
Weekly Weather & Crop Bulletin

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NATIONAL WEATHER SUMMARY

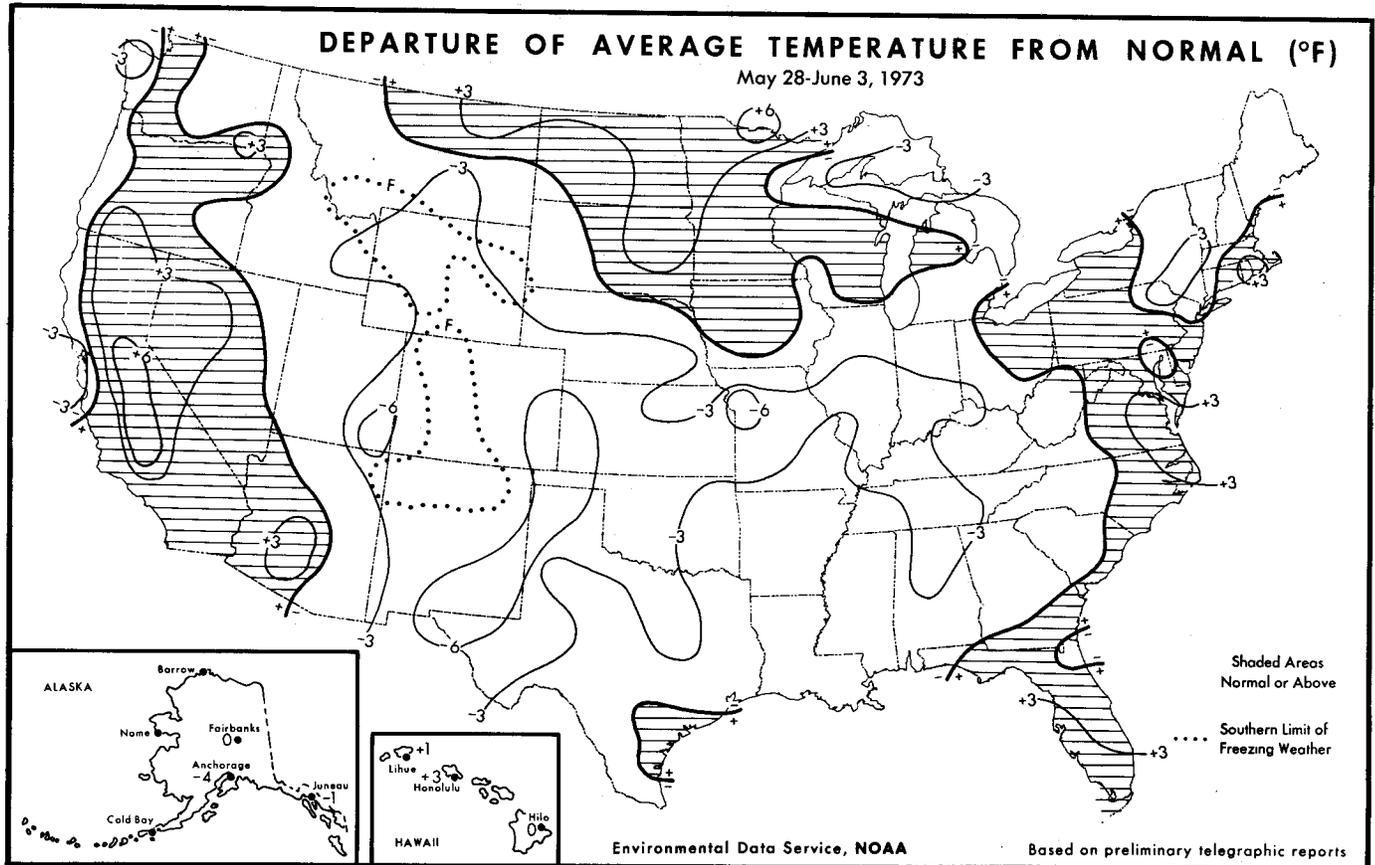
HIGHLIGHTS: The Pacific Northwest remained dry, as did most of California. A Low charted a rainy, sometimes destructive, course across the Nation's east half early in the week. A rather confusing conglomeration of weather systems brought some storms, some sunshine east of the Rockies during midweek. A huge Low deepened in Canada north of the Dakotas over the weekend, spreading violent weather over the Nation's midsection.

PRECIPITATION: Early week weather was dominated by a Low that made things wet and sometimes dangerous east of the Rockies. From Monday through Wednesday the Low drifted from the central Corn Belt northeastwards into Labrador, with a cold front trailing through roughly the Nation's eastern third. From Saturday the 26th through Tuesday the 29th, at least 195 tornadoes occurred which were

associated with this storm system, mostly in the South, Illinois, and Indiana.

Cloudy and wet Memorial Day weather affected most of the Nation's eastern half. North Georgia had 5.58 to 5.91 in rains that morning. A strip extending from southcentral North Carolina through Georgia's southwestern tip was deluged with 2.10 to 3.39 in of rain. While the storm wove an erratic pattern of destruction throughout the South into Tuesday, it generated rain and drizzle elsewhere east of the Mississippi. Behind the storm: The sun shone Tuesday afternoon over the Mississippi Valley, the Plains, the Southern Rockies and the Intermountain Region, as a High moved in from Canada.

Through midweek clear weather prevailed through most of the Nation. New England and Eastern areas did, however, receive some rain caused by the Low, which had moved north of Labrador.



A midweek Low intensified over northern Ohio, generating some light precipitation and cloudiness Wednesday-Thursday, before it filled and dissipated.

Local midweek thunderstorms broke out over the Nation's midsection. The wettest band dumped from 1.00 to 2.25 in rain over central Oklahoma and north western Arkansas Wednesday-Thursday. A California Low caused considerable cloudiness over the West Coast, and scattered thundershowers erupted in north California and Oregon. Also, a tornado was sighted 27 miles north of San Francisco.

Friday was again clear over most of the Nation; however, a few thundershowers lingered over Dixie. One storm dropped 4.20 in rain in southern Alabama. Friday, a Low drifted south from Canada and sat in the vicinity of west North Dakota till mid-Saturday. East of its cold front, and south of an occluded front stretching from the Dakotas to Maine, muggy weather, peppered with thunderstorms and tornadoes, prevailed.

Saturday-Sunday this system intensified, and Sunday it deepened into a massive Low centered in Canada just north of the Dakotas. Severe weather returned to the Plains; thunderstorms erupted from Texas to the Great Lakes; winds gusted from 50 mph in Oklahoma and 62 mph near Ft. Worth, Tex.; Hebron, Nebr., got 2.82 in rain. Late Sunday and early Monday, warm moist Gulf air proceeded north to meet the system, resulting in numerous thunderstorms.

TEMPERATURE: The East recovered from last week's

cold snap: Temperatures east of the Appalachians averaged mostly from 1° to 3° above normal. Some of New England and eastern New York did, however, average from 1° to 3° below normal.

From the Appalachians through the Rockies, temperatures mainly averaged from 1° to 3° below normal, with just a few pockets averaging 6° below normal. The exception here was the northwestern Corn Belt and parts of the Dakotas and Montana, which averaged from 1° to as much as 6° above average.

Southern California west into central Arizona had temperatures from 1° to 6° above the norm. This band of higher than usual temperatures extended inland into Canada, while the northern part of California's coastline and the Washington and Oregon coastal areas averaged from 1° to 6° below normal.

East of the Mississippi a Low kept the mercury down most of the week. Late in the week a High in the Atlantic off the Carolinas pumped moist hot air into the east, first warming things up, then making life muggy and miserable.

Early week morning lows along the Gulf were in the high-60's and low 70's; however, warm moist air pushed inland around Thursday. Morning lows thereafter: 60's to high 70's with afternoon highs in the 80's and 90's.

In the Pacific Northwest, Highs in the Pacific kept coastal temperatures relatively normal, while in the interior some desert air did get north and raise some midweek temperatures as high as 90°.

NATIONAL AGRICULTURAL SUMMARY

AGRICULTURAL HIGHLIGHTS: Rain delayed corn planting in eastern Corn Belt. * Soybean planting advanced slowly in Corn Belt. * Cotton planting in South nearing completion. * Winter wheat developed favorably in Kansas, maturing slower than last year.

SMALL GRAINS: Winter wheat continued to develop favorably in the Great Plains but strong winds caused some lodging damage in Nebraska, Kansas and Oklahoma. Kansas wheat is 95 percent headed and heads are filling well. About 7 percent of the Kansas crop is turning color compared to an average of 30 percent. Texas wheat harvesting is 5 percent complete compared to 25 percent last year. A few wheat fields were cut in southwest Oklahoma near the Red River. About 80 percent of the Oklahoma crop is in the dough stage. Colorado wheat is 30 percent headed. Rain in South Dakota, western North Dakota and Montana boosted small grain conditions while a lack of rain in drought plagued Washington and Oregon hurt non-irrigated small grain crops. Spring small grain seeding is nearing completion in the Dakotas and Minnesota. Small grain harvesting gathered momentum in California and Arizona. Barley and oat combining is just getting started in a few southern States while winter wheat is ripening. Wheat heading is well along in most eastern Corn Belt States.

CORN: Rain delayed corn planting in the eastern Corn Belt last week while substantial progress was made in the western Corn Belt. Overall as of June 3, corn planting advanced 7 points to 84 percent complete in the North Central States compared to about 90 percent complete a year earlier and average progress of 93 percent. Wet conditions held eastern Corn Belt farmers to only 2 days fieldwork with limited advance in corn planting to 75 percent complete compared to 89 percent normally done. Illinois remains 80 percent done while Indiana advanced slightly to 75 percent, Ohio to 70 percent. Western Corn Belt progress is nearly normal at 91 percent complete. Iowa corn is 90 percent seeded. Planting is almost complete in Nebraska, Minnesota, and South Dakota. Rainy weather continued to slow Missouri corn planting which at 66 percent is far behind normal.

Corn planting in the South is nearing completion slower than usual at 88 percent. Progress is well behind the norm in Kentucky at only 60 percent seeded and in Tennessee at 70 percent complete.

COTTON: Planting of cotton in the South from Texas and Oklahoma eastwards is nearing completion at about 90 percent seeded as of June 3. Texas cotton planting is running a little ahead of normal at 88 percent complete compared to 88 percent last year and average progress of 82 percent. Cotton planting is virtually complete in Mississippi and Alabama and is nearly complete in Arkansas, Tennessee and Louisiana. Considerable intended cotton acreage in the Delta States did not get planted because of flooding this spring. Heavy rains in Oklahoma last week will cause some replanting of cotton now 50 percent complete. California cotton is progressing well with squares showing in the San Joaquin Valley. Arizona cotton made good headway with early plantings squaring well.

SOYBEANS: Soybean planting advanced slowly last week in the Corn Belt because of rainy weather

and emphasis on corn planting. As of June 3 soybean planting in the North Central Region was 43 percent complete compared to about 72 percent a year earlier and normal progress of 70 percent. Eastern Corn Belt soybean planting advanced very little to 34 percent complete compared to a usual 63 percent seeded. Illinois inched up 2 points to 37 percent done, normally 75 percent is seeded. Western Corn Belt soybean planting made better progress at 51 percent complete. The Iowa crop is 48 percent seeded compared to average progress of around 85 percent. Missouri reached 22 percent planted versus 70 percent last year.

Southern soybean planting at 36 percent complete gained momentum as cotton and corn planting neared completion. Last year at this time about 60 percent of southern soybean acreage was planted.

OTHER CROPS: Rain and wet fields continued to hinder fieldwork and planting of crops in the North Atlantic States. The heavy rains extended southward into the South Atlantic States causing washing and flooding and some crop damage. Hay-making was quite active with the first cutting underway on northern farms -- drying conditions were poor in the East. Sorghum planting progressed on schedule in Texas to 83 percent complete and in Nebraska to 82 percent while Kansas is behind average at 28 percent seeded. Wet weather limited burley tobacco setting in North Carolina and Kentucky. Georgia peanuts are fair to good with many irregular stands. Potato planting is 90 percent complete in Idaho, but only 25 percent in Aroostook Co., Me. compared to 67 percent a year ago. Dry bean planting just started in Michigan versus 10 percent normally planted. Sweet potatoes are 75 percent seeded in Louisiana and 50 percent seeded in North Carolina.

Fruits and Nuts: Peach picking is increasing in the South along with harvest of stone fruit continuing in California. Rainy, cool weather continues to slow fruit and vineyard development in the Northeast. Strawberry picking is active most areas. Set of tart cherries and other fruits in Michigan are highly erratic because of frost damage in scattered areas. California almond and walnut crops are progressing normally with good sets and size.

Vegetables: Another week of cool, wet weather in the Northeast slowed vegetable planting and development of early planted acreage. Supplies of many Florida vegetable crops declined seasonally but tomatoes are decreasing less than in previous season. In Texas, onion and cabbage harvesting is nearing completion. In California lettuce cutting continues below normal at Salinas, while celery cutting is active at Orange and Santa Maria. In Washington, early lettuce and radishes were harvested. Green pea harvesting is underway in Oregon.

PASTURES AND LIVESTOCK: Pastures continued to provide average to above average feed throughout the East with cattle gaining well. In Wisconsin, pastures furnished about half of the roughage requirements. California range grasses are maturing and drying with most areas potential fire hazards. Last week brought no relief to drought areas of the Pacific Northwest.

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., June 3, 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 . . .	72	- 4	.1	-. 7	La.Baton Rouge . . .	78	0	.3	-. 3	Youngstown . . .	63	0	1.7	+ .8
Mobile . . .	79	- 1	.2	-. 9	Lake Charles . . .	77	- 2	1.4	+ .3	OKLA.Okla. City . . .	69	- 4	4.1	+2.9
Montgomery . . .	77	0	.2	-. 6	New Orleans . . .	77	0	T	-1.0	Tulsa . . .	70	- 2	3.9	+2.7
ALASKA.Anchorage . . .	46	- 4	.2	+ .1	Shreveport . . .	76	- 1	T	-1.0	OREG.Astoria . . .	54	- 1	T	-. 7
Barrow . . .	---	---	---	---	MAINE.Caribou . . .	54	- 1	2.1	+1.3	Burns . . .	56	0	T	-. 2
Fairbanks . . .	54	0	.1	-. 1	Portland . . .	58	0	1.1	+ .4	Medford . . .	65	+ 5	.1	-. 2
Juneau . . .	48	- 1	.5	-. 2	MD,Baltimore . . .	68	- 1	.7	-. 3	Pendleton . . .	62	+ 1	T	-. 3
Kodiak . . .	44	---	2.3	---	MASS.Boston . . .	66	+ 1	.4	-. 3	Portland . . .	61	+ 1	T	-. 4
Nome . . .	---	---	---	---	Chatham . . .	57	---	.2	---	Salem . . .	57	- 1	T	-. 4
ARIZ.Flagstaff . . .	55	0	.4	+ .3	MICH.Alpena . . .	54	- 2	1.9	+1.2	PA.Allentown . . .	66	+ 1	1.8	+ .9
Phoenix . . .	83	+ 4	.1	+ .1	Detroit . . .	63	0	1.1	+ .3	Erie . . .	60	0	3.3	+2.6
Tucson . . .	78	- 1	T	+ .1	Flint . . .	60	- 1	2.0	+1.2	Harrisburg . . .	67	- 1	2.3	+1.4
Winslow . . .	78	- 1	T	- .1	Grand Rapids . . .	61	- 1	1.7	+ .9	Philadelphia . . .	69	+ 2	1.4	+ .5
Yuma . . .	84	+ 2	0	0	Houghton Lake . . .	59	+ 1	1.3	+ .6	Pittsburgh . . .	65	+ 1	.9	0
ARK.Fort Smith . . .	69	- 5	3.6	+2.4	Lansing . . .	61	- 1	1.4	+ .5	Scranton . . .	62	- 3	.8	- .1
Little Rock . . .	73	- 1	.5	-. 6	Marquette . . .	52	- 3	.3	- .4	R.I.Providence . . .	66	+ 4	.5	-. 2
CALIF.Bakersfield . . .	81	+ 8	T	0	Muskegon . . .	60	- 1	.8	+ .1	S.C.Charleston . . .	77	0	.6	-. 3
Eureka . . .	53	- 2	0	- .4	S. Ste. Marie . . .	51	- 3	.7	0	Columbia . . .	75	- 2	1.0	+ .2
Fresno . . .	78	+ 6	T	0	MINN.Duluth . . .	53	- 2	.4	- .4	Greenville . . .	72	- 2	1.1	+ .4
Los Angeles . . .	69	+ 3	0	0	Internatl Falls . . .	63	+ 7	.8	+ .1	S.D.Aberdeen . . .	66	+ 4	.4	- .1
Red Bluff . . .	77	+ 5	T	- .2	Minneapolis . . .	65	+ 2	.2	- .6	Huron . . .	65	+ 3	.4	- .2
San Diego . . .	67	+ 2	T	- .1	Rochester . . .	63	+ 1	1.0	0	Rapid City . . .	58	- 2	.8	+ .1
San Francisco . . .	62	+ 1	0	0	St. Cloud . . .	63	+ 2	1.0	+ .1	Sioux Falls . . .	65	+ 2	1.5	+ .7
Stockton . . .	76	+ 7	0	- .1	MISS.Jackson . . .	76	0	.4	- .5	TENN.Chattanooga . . .	71	- 4	.1	- .7
COLO.Denver . . .	57	- 4	.9	+ .3	Meridian . . .	74	- 2	1.5	+ .7	Knoxville . . .	70	- 2	.7	- .1
Grand Junction . . .	62	- 4	.7	+ .6	MO.Columbia . . .	66	- 3	.4	- .7	Memphis . . .	74	0	.1	- .8
Pueblo . . .	60	- 5	T	- .4	Kansas City . . .	64	- 7	.3	- .7	Nashville . . .	70	- 3	.5	- .4
CONN.Bridgeport . . .	64	0	.7	- .2	St. Louis . . .	67	- 2	.5	- .4	TEX.Abilene . . .	74	- 2	1.2	+ .2
Hartford . . .	66	+ 2	1.4	+ .6	Springfield . . .	65	- 5	2.7	+1.5	Amarillo . . .	65	- 6	.4	- .5
D.C.Washington . . .	71	+ 1	.8	- .2	MONT.Billings . . .	55	- 5	.4	- .1	Austin . . .	78	- 1	.4	- .4
FLA.Apalachicola . . .	79	+ 1	.2	- .6	Glasgow . . .	61	+ 4	.5	+ .1	Beaumont . . .	77	- 1	.5	- .5
Daytona Beach . . .	80	+ 3	.1	---	Great Falls . . .	56	0	.5	- .1	Brownsville . . .	80	- 1	.4	- .4
Ft. Myers . . .	84	+ 6	.3	-1.1	Havre . . .	57	0	1.0	+ .6	Corpus Christi . . .	81	+ 1	T	- .8
Jacksonville . . .	78	- 1	1.8	+1.0	Helena . . .	54	- 1	.1	- .3	Dallas . . .	---	---	---	---
Key West . . .	84	+ 3	.1	- .6	Kalispell . . .	53	- 2	.4	- .1	Del Rio . . .	81	- 1	T	- .7
Lakeland . . .	82	+ 3	1.3	+ .3	Miles City . . .	59	- 2	.4	- .1	El Paso . . .	71	- 6	T	- .1
Miami . . .	84	+ 4	.1	-1.5	Missoula . . .	54	- 1	.1	- .4	Fort Worth . . .	74	- 3	2.3	+1.3
Orlando . . .	82	+ 2	2.6	+1.5	NEBR.Grand Island . . .	63	- 4	1.1	+ .2	Galveston . . .	79	0	.2	- .5
Tallahassee . . .	79	+ 1	1.8	+ .6	Lincoln . . .	65	- 3	.4	- .4	Houston . . .	77	- 2	2.7	+1.7
Tampa . . .	82	+ 3	.4	- .6	Norfolk . . .	65	0	.2	- .8	Lubbock . . .	71	- 2	.3	- .6
W.Palm Beach . . .	83	+ 3	T	---	N.Platte . . .	60	- 4	0	- .7	Midland . . .	73	- 5	.2	- .4
GA.Atlanta . . .	72	- 2	2.4	+1.7	Omaha . . .	65	0	.3	- .5	San Angelo . . .	77	- 2	1.0	+ .5
Augusta . . .	75	- 1	.4	- .3	Valentine . . .	62	0	.4	- .2	San Antonio . . .	79	0	T	- .8
Macon . . .	77	- 1	2.8	+2.1	NEV.Ely . . .	54	0	.6	+ .4	Victoria . . .	80	+ 1	T	- .9
Savannah . . .	79	+ 2	.4	- .7	Las Vegas . . .	79	+ 1	.1	+ .1	Waco . . .	74	- 4	3.5	+2.4
HAWAII.Hilo . . .	74	0	1.2	- .5	Reno . . .	61	+ 5	.7	+ .6	Wichita Falls . . .	72	- 5	3.4	+2.3
Honolulu . . .	80	+ 3	T	- .2	Winneucca . . .	62	+ 5	.7	+ .5	UTAH.Blanding . . .	56	- 6	.7	+ .6
Kahului . . .	---	---	---	---	N.H.Concord . . .	59	- 2	.9	+ .1	Salt Lake City . . .	61	- 1	.1	- .2
Lihue . . .	77	+ 1	.1	- .4	N.J.Atlantic City . . .	68	+ 1	.5	- .3	VT.Burlington . . .	58	- 2	1.8	+1.1
IDAHO.Boise . . .	60	- 1	0	- .3	Trenton . . .	69	+ 2	.8	- .1	VA.Lynchburg . . .	69	0	1.6	+ .9
Lewiston . . .	62	+ 1	T	- .4	N.MEX.Albuquerque . . .	65	- 5	.3	+ .1	Norfolk . . .	75	+ 3	1.2	+ .4
Pocatello . . .	55	- 3	.1	- .2	Roswell . . .	67	- 6	T	- .3	Richmond . . .	74	+ 3	.6	- .3
ILL.Cairo . . .	70	- 4	.9	- .2	N.Y.Albany . . .	61	- 3	.8	0	Roanoke . . .	70	0	2.5	+1.5
Chicago . . .	64	- 2	.4	- .5	Binghamton . . .	60	0	.9	+ .1	WASH.Colville . . .	56	- 2	T	- .5
Moline . . .	64	- 2	3.0	+2.1	Buffalo . . .	61	0	.7	0	Omak . . .	58	- 4	T	- .2
Peoria . . .	64	- 3	1.9	+ .9	New York . . .	67	- 1	.8	0	Quillayute . . .	51	- 3	0	-1.0
Rockford . . .	64	- 1	.2	- .7	Rochester . . .	63	+ 1	.7	+ .1	Seattle-Tacoma . . .	58	+ 1	T	- .4
Springfield . . .	65	- 4	1.3	+ .3	Syracuse . . .	62	- 1	1.3	+ .6	Spokane . . .	57	- 2	.1	- .2
IND.Evansville . . .	67	- 5	.8	- .2	N.C.Asheville . . .	67	- 1	.9	+ .2	Walla Walla . . .	69	+ 6	T	- .3
Ft. Wayne . . .	65	- 1	1.0	+ .1	Charlotte . . .	72	- 2	1.0	+ .3	Yakima . . .	60	- 1	0	- .1
Indianapolis . . .	64	- 3	1.0	+ .1	Greensboro . . .	70	- 2	2.5	+1.7	W.Va.Beckley . . .	64	- 1	.7	- .2
South Bend . . .	64	0	1.5	+ .7	Hatteras . . .	75	+ 3	0	- .9	Charleston . . .	66	- 3	.6	- .3
IOWA.Burlington . . .	65	- 2	.7	- .3	Raleigh . . .	74	+ 2	.9	+ .1	Huntington . . .	69	0	.5	- .4
Des Moines . . .	67	+ 1	.4	- .7	Wilmington . . .	76	+ 1	.1	- .8	Parkersburg . . .	68	0	.3	- .6
Dubuque . . .	62	- 1	.2	- .9	N.DAK.Bismarck . . .	62	+ 2	T	- .5	WIS.Green Bay . . .	61	+ 1	1.9	+1.2
Sioux City . . .	67	0	.3	- .5	Fargo . . .	65	+ 5	.2	- .3	La Crosse . . .	64	- 1	.7	- .3
KANS.Concordia . . .	66	- 2	.3	- .7	Williston . . .	60	+ 2	1.4	+1.0	Madison . . .	63	+ 2	.2	- .6
Dodge City . . .	64	- 5	T	- .8	OHIO.Akron-Canton . . .	66	+ 1	.8	- .1	Milwaukee . . .	61	+ 2	.3	- .4
Goodland . . .	58	- 6	.8	+ .2	Cincinnati . . .	64	- 4	.6	- .3	WYO.Casper . . .	54	- 4	.2	- .4
Topeka . . .	67	- 3	2.3	+1.3	Cleveland . . .	66	+ 2	1.7	+ .9	Cheyenne . . .	54	- 4	.2	- .4
Wichita . . .	67	- 4	.1	- .8	Columbus . . .	67	0	.8	- .1	Lander . . .	54	- 3	.1	- .4
KY.Lexington . . .	66	- 3	.9	0	Dayton . . .	66	- 1	.4	- .5	Sheridan . . .	54	- 3	.4	- .2
Louisville . . .	67	- 2	.9	+ .1	Toledo . . .	65	+ 2	1.3	+ .6	P.R.San Juan . . .	85	+ 5	0	-1.4

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: Locally heavy thunderstorms south Monday with 2.00 to 3.00 in rain southeast then mostly fair until Friday when scattered thunderstorms occurred central and south, locally heavy south. Generally fair weekend. Little or no rain Mobile area and extreme north. Good progress planting remaining cotton and corn late week. Rain and wet growth delayed fieldwork early week. Cotton planting about complete except for fields being replanted due to poor stands. Early cotton making fair growth. Few corn fields, mainly north remain unplanted. Several early planted fields sidedressed and laying by in southern counties. Peanut planting virtually complete, application of herbicides and cultivation active. Almost 50% expected soybean acreage planted, 60% last year, planting most advanced south and central; considerable acreage remaining to be planted will follow wheat and Irish potatoes. Wheat harvest fairly active south and underway central. Limited amount fair quality hay saved.

ALASKA: Warmer; however, isolated frost all areas. High temperatures near normal only portions of Tanana and Matanuska Valleys. Overall range from 73° at North Pole to 29° at both North Pole and Wasilla. Nearly all precipitation late week. Grass growth slow most all areas due to continued cool. Growing degree days Matanuska Valley and Kenai Peninsula much subnormal but above normal Tanana Valley. Some wind damage to newly planted fields, especially Matanuska Valley. Potato planting virtually complete except for Lower Kenai Peninsula where most planting has not begun. Soil moisture supply short in Matanuska Valley but adequate in other areas of Rail Belt.

ARIZONA: Temperatures slightly subnormal except 2° to 6° above northwest, northcentral, east-central. Warm first half, marked drop in temperatures midweek due to influx tropical moisture. Moderate to occasionally heavy showers occurred midweek all areas except southwest. Cotton made good headway. All counties at least 90% emerged. Early plantings squaring well. Some hail damage, Cochise County. Small grain harvest well underway, wet fields delayed early harvest, Graham County. Sorghum planting nearly complete. Safflower yield prospects favorable, good bloom. Sugar beets progressing well. Alfalfa hay harvest continues. Northern counties good potential, first cutting. Yuma area third cutting progressing well. Some curing problems reported due to winds, dampness. Lettuce harvest volume proportions Cochise County. Lettuce harvest complete central areas. Cantaloupes being harvested Yuma County, full volume expected midmonth. Harvest miscellaneous mixed vegetables continued. Harvest potatoes continued, nearing full volume. Dry onion harvest full swing. Harvest grapefruit, Valencia oranges winding down Yuma, Salt River Valley active. Heavy fruit set reported most varieties. Ranges generally good. Drying desert reducing carrying capacity. Melting snow still adding ground moisture, catchment water at higher elevations. Some poisonous weed problems. Stockwater supplies adequate. Cattle, calves remain mostly good. Calving active northern ranges. Sheep, lambs wintered on irrigated pastures good condition, moved to summer pasture. Sheep northern Indian reservations fair.

ARKANSAS: Mean temperatures from 66° to 77°. Departures northwestern half 2° to 5° subnormal. Southeastern half 4° below to 1° above. Extremes: 47°, 91°. Rainfall heaviest northwest half and along eastcentral border with amounts 1.50 to 5.69 in. Largest amounts in westcentral. Elsewhere totals zero to little over 1.00 in. Wet weather slowed fieldwork, particularly northeast. Wet, cool weather hurting crops. Cotton planting nearly complete, 67% up to stand, seedling diseases, high winds causing damage. Warmer weather needed. Rice seeding virtually complete, most coming up to stand. Soybeans 33% planted, 67% normal. Sorghum planting continuing. Wheat maturing rapidly, harvest expected soon. Oat combining beginning east-central. Hay harvest full swing. Fruits fair to good. Tomatoes progressing. Pasture good to excellent. Cattle good, gaining weight.

CALIFORNIA: Average temperatures about 5° above normal except near normal on north coast. Warm, moist air brought thunderstorms Sierras. Night and morning fog common along immediate coastal areas. Corn, milo, and dry bean planting continues active. Earlier plantings doing well, some fields require cut worm and aphid treatment. Small grain harvest gathering momentum, cutting for hay declining rapidly. Barley, wheat harvest very active desert, increasing rapidly San Joaquin Valley. Combines also active Sacramento Valley barley. Rice progressing well, treatment for tadpole shrimp and weevils active. Digging overwintered sugar beets continues, harvest new crop active desert. Cotton, safflower progressing well, some safflower blooming. Cotton squares showing in San Joaquin Valley. Alfalfa cutting continues south, second cutting Sacramento Valley. Vineyards continue good growth, bunch sets good, growers sulfurizing mildew, spraying leaf rollers. Girdling Thompson Seedless underway. Harvesting cherries active Stockton, Santa Clara Valley. Harvesting early plums, nectarines, apricots, freestone peaches continues. Prunes, pears, apples good crops. Near normal temperatures aid crops. Almond, walnuts continue progress normally, good sets, size. Southern California harvest Valencia oranges remains active, picking San Joaquin nearing completion. Harvest lemons southern coastal slowing. Broccoli good volume Salinas, Santa Maria. Cauliflower good supply Salinas. Cantaloupe harvest beginning Imperial, expected to start Bakersfield. Celery cutting active Orange, Santa Maria. Sweet corn picking full swing Coachella. Lettuce continues subnormal Salinas. Onion digging continues desert, movement beginning to dehydrators; Stockton, Fresno volume heavy. Kern County potato digging continues, Tulelake planting complete. Strawberry picking south mostly to processors. Salinas continues full swing, fresh market tomato increasing San Diego. Watermelon harvest beginning Imperial. Range feed conditions good. Range grasses mature, some seeding, drying rapidly. Most areas reporting potential fire hazards. Recent thunderstorms started few range fires, no extensive damage. Cattle moved from foothill ranges to permanent pastures and mountain ranges. Stockwater supplies plentiful. Predator losses continue. Bees being moved to mountain, desert, and out-of-State locations. Honey extraction underway sage, citrus flow, southern locations.

COLORADO: Temperatures generally subnormal. Extremes 18°, 97°. Precipitation rather copious except southeast. Amounts averaged near to just above 0.50 in in Platte, Kansas and Colorado River basins while just over 0.33 in in Rio Grande River basin. Damaging winds to farm buildings along front range and in eastern plains areas on 27th. Planting most field crops good progress. Strong winds previous weekend caused light to heavy damage to emerging plants eastern plains. Cooler temperatures slowing seed germination, plant growth. Most crops good to excellent, local areas fair. Surface soil moisture generally adequate, local areas short. Winter wheat 30% headed. Winter barley 23% headed. Oats 87% emerged. Spring barley 90% emerged. Corn 87% seeded, 62% emerged. Sorghum 54% seeded, 31% emerged. Sugar beets 78% emerged, 8% thinned. Dry beans 20% seeded, 4% emerged. Late summer and fall potatoes approximately 80% emerged. Alfalfa condition good, first cutting 7% complete. Range and pasture good to excellent, except locally. Livestock continue to improve.

FLORIDA: Scattered thunderstorms. Rainfall heaviest north amounts 2.00 to 3.00 in central and south amounts generally less than 1.00 in. Near normal temperatures north ranging to 3° to 5° above normal south. Soil moisture conditions improved. Range from short in Pasco area to surplus areas north Panama City. Corn growing, most crops planted except soybeans. Harvest of small grains, weather permitting. Cattle and calves good, marketings light to normal. Rains very helpful to citrus trees, new fruit crop excellent. Remaining Valencias very good, new crop fruit sizing well. Valencia harvest still heavy, grapefruit light. Vegetable supplies declining. Watermelon from west, north to dominate June supply outlook. Tomatoes declining less rapidly than previous seasons. Sweet corn supplies mostly from Zellwood, Everglades finishing fast. Potatoes, cabbage, celery, cucumbers, peppers in seasonal decline. Limited supplies snap beans, leaf crops, squash available. Eggplant continues steady.

GEORGIA: Thunderstorms early week, severe with hail many sections. Tornado Athens area on 31st, left 1 dead and \$10 million damage. Isolated thunderstorms rest of week. Rainfall amounts variable averaging 1.00 to 2.00 in eastcentral and southeast, 3.00 to 5.00 in elsewhere locally. 5.00 to 7.00 in mountains and extreme southwest. Temperatures normal southeast, 1° to 2° subnormal elsewhere. Fair weekend, near normal temperatures. Soil moisture excessive many areas. Heavy rains, hail and strong winds caused considerable crop and field damage. Cotton fair to good, 3% squaring. Tobacco fair; additional hail damage, some drowning, harvest still light. Corn fair to good, still planting north. Soybeans 54%, sorghum 34% planted. Peanuts fair to good, many irregular stands. Haying slow, becoming overmature. Peaches fair, harvest well advanced south, increasing central, overall 6% picked. Vegetable movement much below normal. Pastures and cattle good.

HAWAII: Warm, dry, favorable for crop growth and maturity. Showers light, mainly mountain areas. Production of papayas and watermelons heavy. Other crops adequate. Sugarcane and pineapple harvesting active. Insect infestation heavy some crops but control measures keeping damage down. Pastures and cattle fair to good.

IDAHO: Temperatures generally a few degrees subnormal. Warming trend through midweek with sharp

cooling end week. Except for 0.28 in at Grangeville, no precipitation or only traces over most of north and southwestern. Largest amount southcentral and southeastern 0.88 in Three Creek. Cooler temperatures slowed crop growth. Haying active southwest and southcentral. Winter wheat 60% boot stage, 30% showing heads. Spring grains in boot and pre-boot with advanced fields spring barley heading southwest, southcentral. Statewide potato plantings 90% complete. Areas complete southwest, 95% southcentral, 75% done east. All fields emerged southwest, 40% southcentral, 20% east. Corn planting complete. Dry bean planting 75% complete; 67% emerged southwest, 25% southcentral. Sugar beet blocking, thinning 60% complete southwest, 35% southcentral, 25% done east. Topsoil moisture short.

ILLINOIS: Light precipitation early week, dry period midweek. Heaviest precipitation weekend central, north. Temperatures 1° to 4° subnormal. Daytime highs in 60's, week's end 70's, 80's; lows in 50's. Rising to 60's weekend. Average 2 days suitable fieldwork. Corn planting delayed by rain, just over 80% planted, 96% last year, 1970-72 average 95%. Soybean planting about 37% complete, 84% last year, average 75%. Winter wheat 10% excellent, 68% good, 20% fair, 2% poor. About 95% wheat headed, average 99%, nearly 55% filling, 69% average. Wheat starting to turn yellow, 27% last year, 19% average. Oats 6% excellent, 57% good, 33% fair, 4% poor. Oats heading 15%, 24% average. About 2% filling, 5% average. Grain sorghum planting started, particularly southwest. Red clover, alfalfa mostly good. Nearly 15% alfalfa cut, 32% average. Red clover 10% cut, 23% average. Pastures good to excellent. Soil moisture 54% surplus, 44% adequate, 2% short. Activities: Planting corn and soybeans, fertilizer application, ground preparation, hay cutting, herbicide application, conditions permitting.

INDIANA: Numerous showers early and late in week. Two or three no rain days at midweek. Precipitation averaged 1.00 to 2.00 in. Air and soil temperatures plus sunshine and evaporation all below normal. Scattered severe thunderstorms over weekend. Two days suitable for fieldwork. Topsoil moisture adequate to surplus. Subsoil moisture mostly adequate to surplus. Corn 75% planted, 90% in 1972, 80% average. Corn 55% emerged, stands mostly good. Corn 3 in high, about normal. Soybeans 30% planted, 55% in 1972 and 45% average. Wheat 75% headed, few fields beginning to ripen. Alfalfa hay 20% cut first time, 30% in 1972, 25% average. Clover 5% cut. Pastures improved, mostly good.

IOWA: Temperatures ranged from 1° to 2° above normal northwest to 1° to 2° subnormal southeast. Precipitation averaged below normal except for spotty areas in northcentral, central and east-central districts where 1.00 to 2.00 in fell. Excellent planting progress made during the 2.5 days suitable for fieldwork. Corn 90% planted, virtual completion last year and average. Over 50% corn emerged, last year over 80%. Stand of corn 90% of normal, condition mostly good to fair. Soybeans 48% planted, last year 82%, average 84%; ranges from over 50% northwest to 20% for the east-central and southeast. Over 10% emerged compared with 45% in 1972. Growing crops (oats, hay crops, pastures) mostly good to excellent. First cutting alfalfa hay started. Topsoil moisture 52% adequate, 48% surplus. Subsoil moisture 43% adequate, 57% surplus.

KANSAS: Temperatures subnormal. Most precipitation on weekend. Amounts above normal northwest, below normal east and south. Severe weather including some hail north and east. Row crop planting active but progress slowed by rains. Corn 87% planted, 89% year ago, 92% average. Sorghum 28% planted, 36% year ago and 43% average. Soybeans 18% planted, 36% last year and average 47%. Alfalfa first cutting 69% complete, 56% year ago, and range 36% to 90% recent years. Alfalfa weevil damaging regrowth in harvested fields eastern two-thirds. Wheat developing favorably but high winds caused some damage. Wheat heads filling well with 95% wheat headed, 98% year ago, and 97% average; 7% wheat turning color, 31% last year and 30% average. Winter barley mostly headed. Cattle gaining well on pastures. Good pasture growth, adequate to plentiful stock pond water.

KENTUCKY: Showery and cool with temperatures 5° to 10° subnormal through midweek, warming to near normal late in week. Precipitation totaling less than 0.10 in southcentral to near 1.00 in elsewhere. Only 1.5 days favorable fieldwork due excessive carryover rainfall previous week. Poor drying days, 88% report surplus soil moisture. Very little corn and soybeans planted; corn now 60%, soybeans 15%. At least 2 weeks behind last year and normal progress. Corn averages 3 in tall stands 88% full. Soybean stands subnormal due weather and poor seed germination. Burley setting limited due wet fields, only 9% set, 50% year ago. Some burley plants getting too large, generally adequate to set full acreage. Wheat mostly blooming to turning, barley ready for harvest, below normal yields expected. Pasture condition best of record this date.

LOUISIANA: Temperatures normal to 3° below. Scattered thundershowers midweek and weekend, ranging from none to about 2.00 in except 7.32 in at Opelousas Friday morning. Land preparation and planting active. Fieldwork possible 5.5 days. Rain needed some areas for proper germination. Cotton over 90% planted, 80% up to stand. Corn 90% planted, some fields in south laid by. Less than 50% soybeans planted, sweet potatoes 75%. Most sugarcane laid by. Topdressing and weed control of rice active. Harvest Irish potatoes increasing. Combining wheat and oats beginning. Hay harvest active. Peach harvest beginning. Livestock fair to good. Pastures good except where overstocked due to flooding.

MARYLAND AND DELAWARE: Temperatures averaged 2° to 4° subnormal. Precipitation daily extreme west, general 26th through 28th, elsewhere with showers again 30th. Some fieldwork after soils dried. Corn planting 85% done, last year 80%, average 91%. Soybean planting 27%, average 39%. Tobacco setting 31%, ahead of normal 20%. Blue mold in tobacco beds causing concern. Hay harvest very slow, quality reduced. Barley turning color all areas. Strawberry harvest active central shore, some damage from weather.

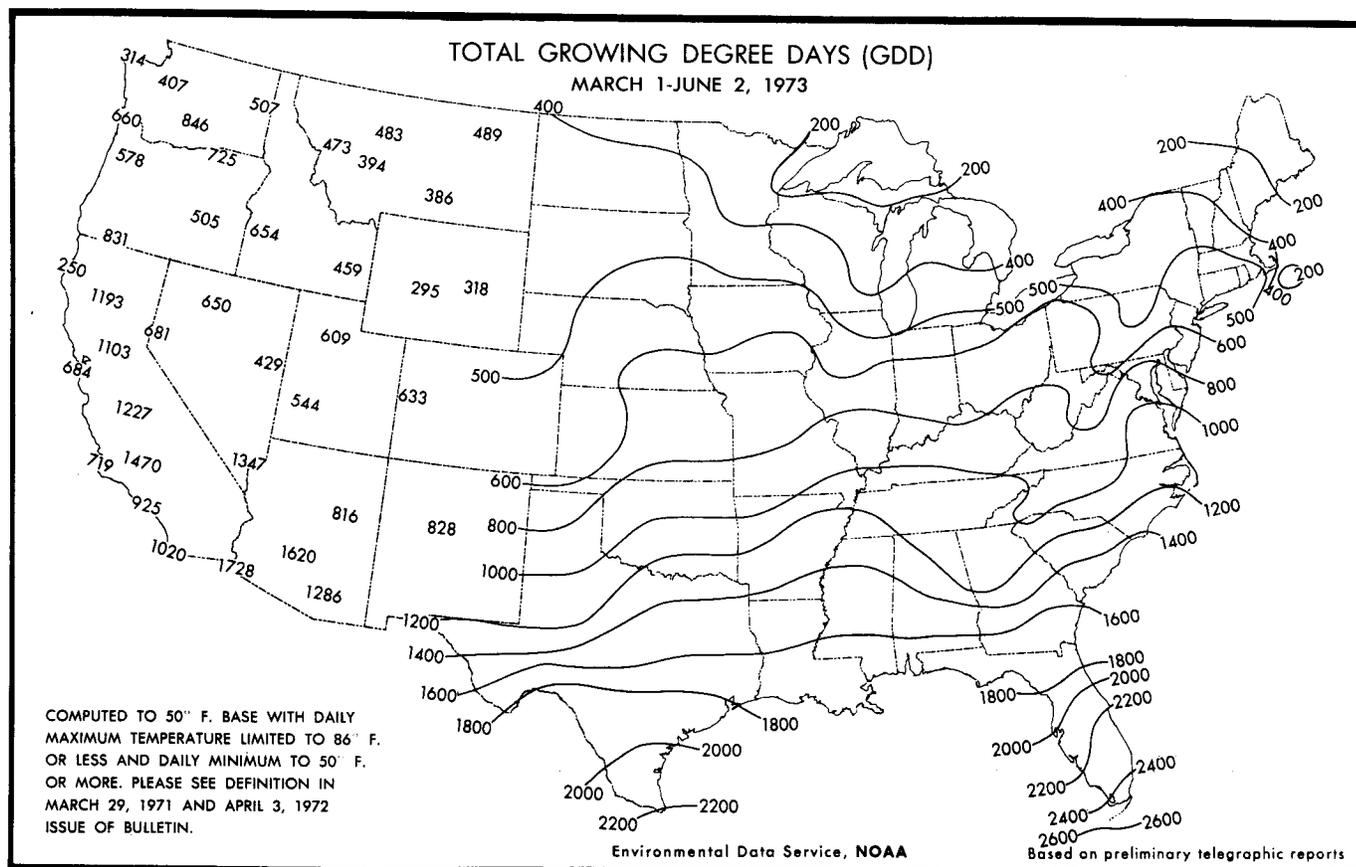
MICHIGAN: Temperatures near normal to 3° subnormal upper and near normal to 4° subnormal south lower to 3° above normal extreme northern lower. Frost and light freeze midweek upper and northern lower. Rains almost daily, totals from about 0.25 in west upper to 0.75 in east upper and generally 1.0 to 2.0 in lower. Little to no progress with fieldwork southern two-thirds lower Peninsula. Fair progress north. Soil moisture surplus much of lower Peninsula; adequate to surplus north. Fieldwork possible only 1.6 days.

About 76% of acreage intended for spring crops now plowed. Wet fields prevented planting corn and soybeans much of lower Peninsula. Corn 65% planted, normal 86%. Soybeans 21% planted, normal 51%. Oats 96% planted. Potatoes 70% planted, normal 77%. Dry bean planting just started, normal 10%. Wheat and oats developing well on better drained fields, excessive water retarding growth low areas. Rains delayed start of making hay. Pasture feed supplies average to above. Set of tart cherries and other fruits highly erratic because of frost damage in some locations and unfavorable weather for pollination. Vegetable planting later than normal because of wet fields.

MINNESOTA: Temperatures normal to 4° above except east which ranged 1° to 3° subnormal. Highs in upper 80's southwest, lows in middle 30's northeast. Light precipitation during week. Saturday between 0.50 to over 1 in southern two-thirds State. Southeast corner continues wet with over 1.00 in. Soil moisture mostly adequate except subsoil short to very short northwest. Topsoil adequate to short. Portions of southeast still have surplus supplies. Fieldwork made substantial progress especially southeast. Cool nights have slowed growth but growing conditions generally favorable. Corn 97% planted, normal 92%; 75% emerged, 63% normal. Potatoes 90% planted, 64% emerged, normal 76%; 15% first time cultivated, normal 10%. Soybeans 85% planted, 78% normal; 46% emerged, 43% normal. Flax 96% planted, 78% normal; 78% emerged, 63% normal. Potatoes 90% planted, 64% normal; processing sweet corn 84%, 83% normal; processing peas 96%, 93% normal; and sunflowers 88% planted. First cutting alfalfa 3% complete. Rye headed 47%, normal 30%. Winter wheat headed 22%, normal 10%.

MISSISSIPPI: Scattered showers and thunderstorms first 3 days, and late in week. Little day-to-day temperature changes, mornings somewhat cooler at midweek. Temperatures averaged 4° cooler. Extremes: 53°-93°. Weekend scattered thundershowers dwindled to isolated activity by Sunday with warmer temperatures. Days suitable for fieldwork averaged 3.8 compared with 4.1 days previous week and 5.6 days last year. Soil moisture mostly adequate to surplus. Cotton planting virtually complete, 75% up to a stand. Corn 80% planted, 93% last year, 87% normally; 75% up to a stand. Soybeans planting 25% complete, 66% year ago, 57% normally; 10% up to a stand. Percent of other crops planted: sorghum 50, year ago 72; sweet potatoes 55, year ago 65; peanuts 85%. Wheat 85% and oats 90% ripe. Cotton, corn and truck crops fair. Small grains, hay crops, pastures and livestock good. Soybeans fair to good. Fruit crops very poor to good.

MISSOURI: Cool frequent showers and thunderstorms. Total rainfall quite variable, ranging from less than 0.25 in few local areas central and westcentral to more than 7.00 in in southeast. Average between 1.00 and 2.00 in. Temperatures 4° to 6° subnormal. At week's end, showers and thundershowers general with some local areas reporting heavy rains with intense thunderstorm activity and some damage due to high winds. Three days suitable for fieldwork. Corn planting 66% complete, 94% year ago. Soybeans 22% planted, year ago 70%. Cotton 78% planted, completed year ago. Grain sorghum 20% planted, 72% last year. First cutting alfalfa 44% complete, 74% year ago. Alfalfa damaged by weevil 50%. Wheat mostly fair condition, 24% turning color. Pastures mostly good. Soil moisture mostly surplus to adequate.



MONTANA: Temperatures 3° above normal to 6° below. Maximum temperatures in 80's midweek. Weather system crossing State end of week brought significant cooling and rain all divisions. Barley seeding virtually complete, corn and dry beans 90% and potatoes 80% seeded. Small grain condition good eastern one-third and south-central, fair to good elsewhere. Sugar beets 15% thinned with condition good southeast, fair to good elsewhere. Winter wheat 15% in boot, 85% not yet in boot. Range feed short northcentral and central, short to adequate western one-third, adequate elsewhere. Range grass and hay rate of growth average eastern one-third and southcentral, slower elsewhere. Stockwater supply adequate southern one-half, short to adequate elsewhere. Cattle 85% and sheep 80% moved to summer ranges.

NEBRASKA: Temperatures subnormal early, above normal midweek, normal at week's end. Rainfall general except short far west, many in excess of 3.00 in. Heavy rains Memorial Day Weekend delayed most fieldwork till midweek. Good progress made after fields dried, planting row crops ahead last year and normal. Both top and subsoil supplies mostly adequate to surplus. Fieldwork consisted planting soybeans and sorghum, cultivating corn, harvesting alfalfa, applying fertilizer and herbicides. Corn planting 97% complete, 92% a year ago, 95% average, condition mostly good. Soybean planting 72% complete, 55% 1972, 71% average. Planting sorghum 82% complete, 62% a year ago, 78% normal. Soybean and sorghum condition mostly good. Some row crops replanted. Winter wheat 8% excellent, 74% good, 18% fair. Some lodging, much headed, some damage rust and mosaic. Sugar beet acreage 75% up in excellent condition, thinning making good progress. Many

late plantings need moisture, some being irrigated. Most beet acreage received little rain for some time. Alfalfa and wild hay good to excellent. Harvesting first crop alfalfa general. Range and pasture conditions improved, mostly average to above. Ranchers busy branding, castrating and vaccinating calves. Some feedlots muddy.

NEVADA: Temperatures 2° to 5° above normal except 4° below extreme south. Extremes: 29°, 103°. Precipitation ranged from 0.01 in to 0.60 in. Soil moisture supplies generally adequate, supply short northern Washoe, Elko and Eureka Counties. Alfalfa fair to good, weevils a problem. First cutting just starting central, second cutting underway south. Weeds plentiful in first cuttings. Spring grains emerged and look good. Season a little behind year ago. Livestock movement to spring range about 90% complete. Calving, lambing and shearing about finished.

NEW ENGLAND: Temperatures near normal. Rain frequent, 0.75 to 1.50 in north, 0.40 to 0.60 in south. Rain hindered fieldwork until weekend. Crops flooded, replanting necessary in some low areas. Hay and pastures growing well. Strawberries good set. Apple scab worse, insects more active. Potato planting past 50% south, 25% Aroostook Co., Me. compared with 67% year ago.

NEW JERSEY: Mild week; temperatures averaged slightly above normal. Temperatures ranged from the low to mid 80's Tuesday and Wednesday to the upper 40's Friday morning. Precipitation covered State Monday and Wednesday and was spotty over weekend. Wet fields delayed planting and harvesting some crops. Harvest of asparagus, lettuce, cabbage, escarole, endive, spinach, parsley and

"greens" continues. Planting of tomatoes, sweet corn, peppers, eggplant and sweet potatoes behind schedule. Potatoes being cultivated. Strawberry volume increasing, wet conditions have caused some losses. Fruit tree spraying active. Wet fields delaying planting of field corn and soybeans. Some rye cut for straw. Alfalfa and grass hay being made but weather poor for drying.

NEW MEXICO: Continued very cool. Temperatures 3° to 8° subnormal. Scattered showers last half week mostly western two-thirds, totals generally less than 0.50 in but more locally. Generally favorable weather statewide entire week. Primary activities: planting sorghum, cultivating, weeding cotton, thinning apple orchards, irrigating, spraying. Cotton mostly good. Grain sorghum approximately 70% planted. Barley, wheat good, beginning coloring. Alfalfa hay first cutting virtually completed major producing counties, second cutting underway. Lettuce harvest declining Mesilla Valley, shipments well ahead last year. Onion stripping starting. Apples good, thinning continues. Cattle, calves mostly good. Range condition generally good, rains needed scattered locations.

NEW YORK: Temperatures moderated considerably near to a little above normal. Extremes: 30°, 81°. Precipitation well above normal St. Lawrence and Champlain Valley and Northern Plateau. Departures 1.00 in above normal or greater common this area. Both Massena and Ellenburg Depot more than 2.00 in. Elsewhere rainfall above normal. Wet weather and soil conditions delayed fieldwork and planting for 5th consecutive week. Corn planting about 40% complete, 70% last year. Oat planting continues, dry bean planting just underway. Wheat good condition. Soft ground problem in some pastures. First cutting hay underway though progress limited by rain. Delayed planting and slow growth common most Upstate vegetable areas. Long Island potatoes making good progress. Upstate planting nearing 75% completion, fields emerging. Onions, lettuce and celery progressing slowly. Sweet corn planting about 50% complete. Strawberry harvest started Long Island. Wet weather and lack of sunshine holding back all fruit and vineyard development. June drop underway.

NORTH CAROLINA: Temperatures: near normal with highs mostly in 80's and lows mostly 50's and 60's. Heavy rains 3.00 to 8.00 in mountains 27th and 28th moved to coast 29th with 1.00 to 3.00 in Piedmont and 0.10 to 2.00 in Coastal Plain. Heavy rains mountain area flooded lowlands and eroded uplands. Rains gouged holes some fields to subsoil. Silage corn suffered worst damage, replanting will be extensive. Cut hay, cabbage and potatoes also severely damaged. Other areas State more fortunate. Fieldwork averaged only 2.8 days, shortest period since mid-April. Corn 72% good to excellent, 24% fair, 4% poor. Flue-cured tobacco planting nearing end. Burley setting halted by rains. Soybeans 60% planted, average 60%. Few fields small grains combined. Sweet potatoes 50% seeded.

NORTH DAKOTA: Temperatures slightly above normal northwest and moderately subnormal elsewhere. Cool early week, much warmer later. No frost. Extremes: 38°, 93°. Largest rains southwest early week. Weekend showers mostly west third improved crop and pasture prospects there. Some central localities still dry. Small grain seeding virtually completed with advanced fields jointing. Flax planting 90% completed, corn 80%, potatoes 97%, soybeans 90%, sunflowers 75%. All planting substantially ahead

of last year. Ten-year average planting progress: flax 69%, corn 72%, potatoes 82%, soybeans 76%, sunflowers 69%. Pasture growth good. Livestock fine.

OHIO: Precipitation from over 1.00 in north to 0.50 in or less south. General shower activity first 3 days again on June 3. Several periods of severe weather again, funnel clouds extreme northwest. Widespread, severe thundershowers accompanied by some hail, strong winds, heavy rain moved across northern two-thirds. Gradual warming trend. Warmest weather this season on 3rd, well into 80's most locations, 90° at Chesapeake. Stormy weather prevented farmers from making much progress in fieldwork; less than 2.0 days favorable. During period March 31 through June 1, total of 20 days were suitable for work; 29 days during same period in 1972; 48 days in 1971. Soil moisture supplies 86% surplus, 14% adequate. Corn planting 70% done, both last year and 5-year (1968-72) average 90% planted. This season's progress slowest on record for date, since 1954. Soybeans 35% planted, normal 55%. Tobacco over 10% transplanted, 30% in 1972. Potatoes 70% planted. Winter wheat 50% headed, mostly fair condition, normally 65% headed.

OKLAHOMA: Temperatures 2° to 8° subnormal. Precipitation ranged from 0.50 in panhandle and south-central to 2.50 in eastcentral. Weekend temperatures mild, severe thunderstorms and tornadoes reported some parts. Heavy winds May 27 and heavy rains weekend caused shattering and lodging affecting small grain condition and delaying wheat harvest. Over 80% wheat in dough stage with occasional fields cut in southwest counties bordering Red River. Army worms causing damage central and west-central, some spraying for control. Cotton 50% and sorghums 40% planted. Rains will make much replanting necessary. Planting soybeans and peanuts gained momentum. First cutting alfalfa complete with second growth below expectations. Ranges and livestock generally good to excellent.

OREGON: Temperatures near to subnormal all but south border. Northcentral, northeast close to 4° below while southwestern valleys ran 3° above normal. Warming during midweek brought highs in upper 80's, 90's. Frost across much of north half east early week. Precipitation light and spotty. Severe drought continues Columbia Basin. Rain needed to boost crops all areas. Considerable first cutting hay now baled, quality good, quantity subnormal. Green pea harvest underway, disappointing yields east. Strawberry harvest getting underway, slight shortage of pickers exists until school ends. Spraying, thinning apples, pears. Some scab, damp weather. Stone fruits sizing. Vegetables, potatoes emerging, growing well. Pastures fair to good. Ranges poor to fair.

PENNSYLVANIA: Mild, sunny, scattered afternoon showers and thunderstorms all week. Temperatures several degrees subnormal, but 6° to 10° above previous week for warmest so far this season. Extremes: 37°, 84°. Fourth consecutive week with above normal rainfall most areas with totals 0.75 to 1.25 in generally increasing to 3.30 in extreme Northwest. Topsoil moisture 80% surplus. Corn 50% planted, oats 90%, potatoes 67%. Barley nearly all headed, wheat 50% headed. Alfalfa condition 75% good. Pastures 67% above average. Tobacco transplanting underway. Strawberry harvest to begin this week. Asparagus growth improved. Tomato transplanting continues.

PUERTO RICO: Generally dry and warm. Rainfall averaged 0.60 in or 1.23 in subnormal. Light to moderate showers western interior, total 2.80 in. Crop moisture conditions too dry all divisions. Severe drought continued. Temperatures averaged 81° on coast and 78° interior. Sugarcane harvesting good progress, dry weather, yield low. Young crop needs more rain. Dry weather favored cultivation of coffee and other field operations. Tobacco harvest ended. Pastures deteriorating due to lack of rain islandwide. Pastures attacked by aphid north. Milk production diminished many sections due drought. Weather not beneficial to minor crop development. Abundance of plantains only one section western interior, lack of rain affecting other crops.

SOUTH CAROLINA: Heavy rain mountains and scattered damaging wind storms and hail storms elsewhere. Cloudiness with little or no rain during last part of period. Rainfall excessive mountains, weekly totals topped 6.00 in, 1.00 to 2.00 in midland, less than 1.00 in Coastal Plain. Rains relieved dry condition most areas. Tobacco good. Cotton fair to good; all planted. Corn planting complete, good to excellent. Soybeans 59% planted, 51% last year. Sorghum 43% planted, 44% last year. Small grains fair to good. Wheat 97% headed, 76% turning color, 33% ripe, 6% harvested, same last year. Oats 97% headed, 75% turning color, 42% ripe, 12% harvested, 10% last year. Rye 100% headed, 82% turning color, 20% ripe, 27% harvested. Barley 88% headed, 82% turning color, 52% ripe, 4% harvested, none last year. Grain hays good, 79% harvested, 63% last year. Pastures good. Sweet potatoes 65% planted, 56% last year. Peaches fair to good, 7% harvested, 1% last year. Grapes and vegetable crops good. Snap bean, cucumber harvest continues. Watermelons fair to good.

SOUTH DAKOTA: Fair and warm midweek, except Black Hills. Extremes: 27°, 92°. Precipitation over weekend, some areas central 3.00 to 4.00 in, amounts of 1.00 to 3.00 in common elsewhere. Topsoil moisture adequate most areas, short small area northeast, surplus small area west central. Crop conditions greatly improved. First cutting alfalfa expected to be shorter than normal due to dry, cool weather in mid-May. Flax and corn planting near normal at 95% complete. Soybean planting 86% complete, normal 82%, last year 42%. Sorghum planting 62% complete, normal 60%, last year 28%. Weed spraying main field activity.

TENNESSEE: Cold front moved south across State early week set off showers and thundershowers with few locally heavy amounts. Temperatures near normal with coolest midweek. Extremes: 47°, 89°. About 75% of barley, 60% of wheat, and 45% oats turning or yellow. Some barley ready for harvest. Cotton planting nearly over with considerable intended acreage not planted, some replanting necessary. Corn 70% planted, normal 90%. Soybeans 20% planted, normal 50%. Flea beetles causing damage to corn. First cutting of alfalfa 75% completed. Considerable mowed hay damaged with loss in yield and quality. Wet fields slowing tobacco transplanting although plants large enough--too large some cases.

TEXAS: Widespread rain late week several inches above normal over central and north. Excessive rain near 10.00 in at Groesbeck in central and totals of 6.00 to 7.00 in fell south and east of Dallas-Fort Worth area. Temperatures 2° to 5° subnormal over northwestern half but near normal

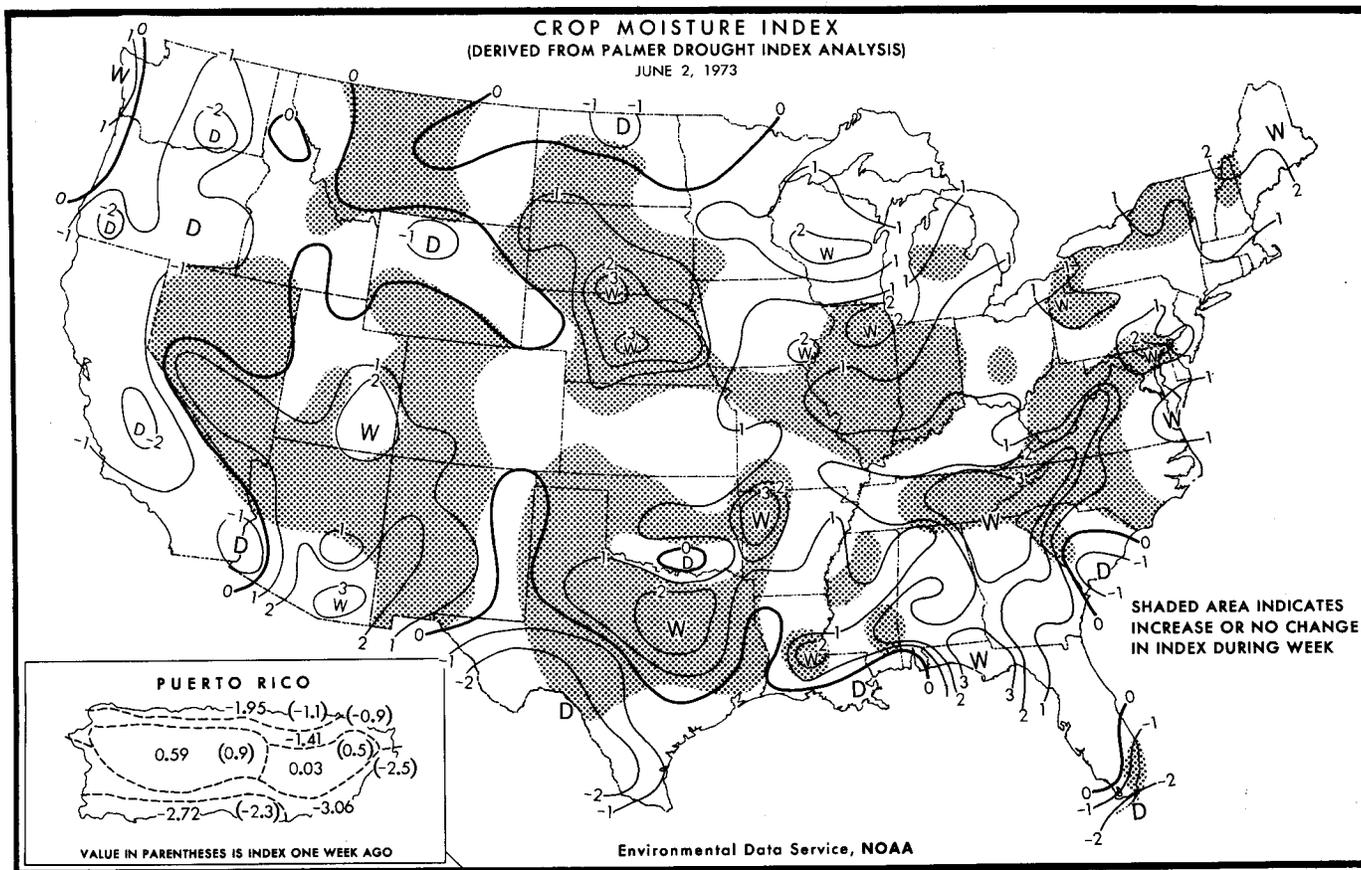
elsewhere. Light rain west of Pecos and over panhandle Thursday and Friday. Harvest of wheat, oats, flax excellent progress early week. Rains end of week hampered harvest. Planting cotton, corn, sorghum, rice nearing completion and on schedule last year. Seeding peanuts and soybeans satisfactory progress. Major crops percent harvested: wheat 5, 1972 25; oats 30, 1972 62; flax 95, 1972 100. Major crops percent planted: cotton 88, 1972 88, average 82; corn 100, 1972 99, average 99; sorghum 83, 1972 84, average 83; soybeans 57, 1972 48; peanuts 38, 1972 39; rice 92, 1972 100. Lower Rio Grande Valley onion, cabbage, carrot, potato harvest nearing completion. Moderate supplies of tomatoes, sweet corn, cucumbers remain available. Watermelon harvest nearing peak. Coastal Bend watermelon harvest continues. Onion and cabbage harvest complete. Sweet corn harvest nearing completion. Cucumber and squash picking continues. Winter Garden-San Antonio area onion harvest continues to prevail as main activity. Cantaloupes nearing maturity with harvest expected to begin about a week. Laredo onion harvest virtually complete. Coyotes beginning to damage cantaloupe crop. Central and East Texas tomatoes continue to set fruit and make good progress. Watermelons continue to show excellent growth most areas. In North Texas wind and sand did nominal damage to tomato crop. Watermelon and cantaloupes continue good progress. Knox-Haskell area potato harvest expected start about mid-June. Trans-Pecos region cantaloupe crop looks good. High Plains potatoes and onions continue good growth, cucumbers and bell peppers developing well. Peach harvest gaining momentum with picking active in all areas. Citrus harvest finally nearing completion, irrigation active almost all groves.

UTAH: Scattered precipitation late week. Locally moderate to heavy totals south. After 2 weeks above normal conditions, temperatures again dropped below normal. A few colder valley stations subfreezing minimums early week. Soil moisture crop and range lands adequate most areas. Irrigation water plentiful. Feed on ranges now in use rated good to excellent all areas. About 30% sugar beet acreage thinned, 50% last year. Stands only fair. Cutting first crop alfalfa hay just started, yield prospects good. About 10% alfalfa acreage cut, same as year ago. Winter wheat fair to good, about 60% acreage jointed, some headed out in early areas. Spring grains starting to joint in earlier areas. Movement cattle and sheep to spring range lands nearing completion.

VIRGINIA: Violent weather Monday. Severe thunderstorms and heavy rain to 4.00 in west half. Temperatures 2° subnormal, range 7° below to 2° above. Highs in upper 80's, low 50°. Rain, wind and flooding Memorial Day weekend damaged crops and eroded soils. Topsoil moisture 72% adequate, 28% surplus. Fieldwork possible 3.3 days. Planted and cultivated corn, 90% of full stand, better than last year, but below average. Soybeans 33% sown. Set tobacco, stands satisfactory and plants healthy. Peanuts 85% of full stand, 80% last year, range 92% to 95% 1968 thru 1971. Pastures excellent. Sheared sheep. Cultivated and sprayed Irish potatoes.

WASHINGTON: Western: Temperatures 2° subnormal, precipitation traces. Pea planting ending. Grass silage excellent quality, quantity. Early strawberries harvested. Raspberries setting fruit. Early head lettuce, leaf lettuce, radishes harvest-

Continued on p. 12.



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.



FIRST CLASS MAIL

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ed. Early broccoli plantings up. Planting seed tree nurseries. Corn up well. Eastern: Temperatures 2° to 4° subnormal, precipitation near zero. Soil moisture low, crops showing stress. Haying underway, possible low crop. Apple crop good. Pear crop reduced by frosts. Cherry crop good. Sweet corn cultivated. Sugar beets blocked. Frost damage sweet corn, alfalfa. Shearing complete, lambs on market. Grasshoppers reach epidemic proportions.

WEST VIRGINIA: Showers throughout week. Thunder-showers Saturday and Sunday. Damaging winds and hail across southern two-thirds Wednesday, wind gusts up to 50 mph. Maximum temperatures near normal. Minimums slightly below. Wet soils limited fieldwork to 2.2 days. Soil moisture 67% surplus, 33% adequate. Corn planting restricted by wet soils, 70% complete. Small grains fair to good. Hay harvest and tobacco setting started, should progress rapidly with hot, rainless weekend. Strawberry picking in full swing. Hay crops and pastures lush; need more sun, less rain.

WISCONSIN: After near freezing nighttime temperatures early in the week, a warming trend moved into State Wednesday. Temperatures near normal

with readings in 80's from Thursday through Saturday. Rainfall averaged less than 1.00 in most areas. Light showers north Thursday and over State on weekend. Planting of crops resumed at midweek. Corn 70% planted, last year 100%, normal 85%. Soybeans 33% planted, last year 75%, normal 55%. A few late oats being sown. Early oats doing well. Winter grains excellent. Wheat and rye heading. Planting of potatoes and vegetables continues. Warmer weather helping crop development. A little green-chopping underway. Hay growth picked up but behind normal due to late start. New seedings thin with much grass, dandelions, and yellow hoquet. Pastures good but soft. Half of roughage requirements being met by pastures. Soil moisture 25% adequate, 75% surplus.

WYOMING: Temperatures ranged 2° to 7° subnormal. Warmest daytime reading last 2 days. Extremes: 19°, 90°. Precipitation generally subnormal except localized areas, Alva 3.02 in. Heaviest precipitation first part, scattered light amounts midweek and again end of week. Activities: Irrigating, completion of crop planting, moving livestock to summer pastures. Oats and barley seeding completed. Corn planting nearly done, potatoes 85%, dry beans 50% completed. Sugar beet thinning 10% completed.

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