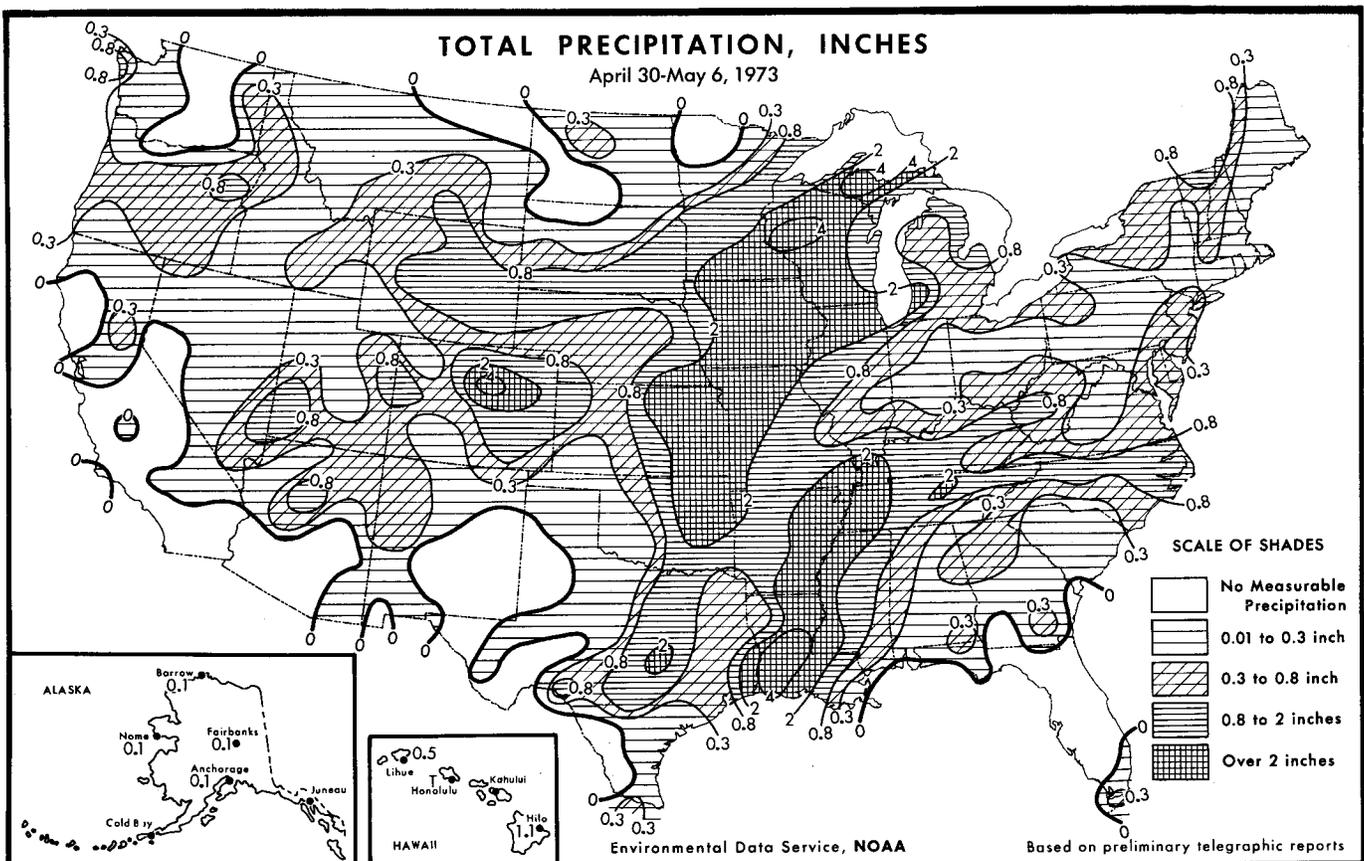


# Weekly Weather & Crop Bulletin

U. S. DEPARTMENT OF COMMERCE  
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## NATIONAL WEATHER SUMMARY

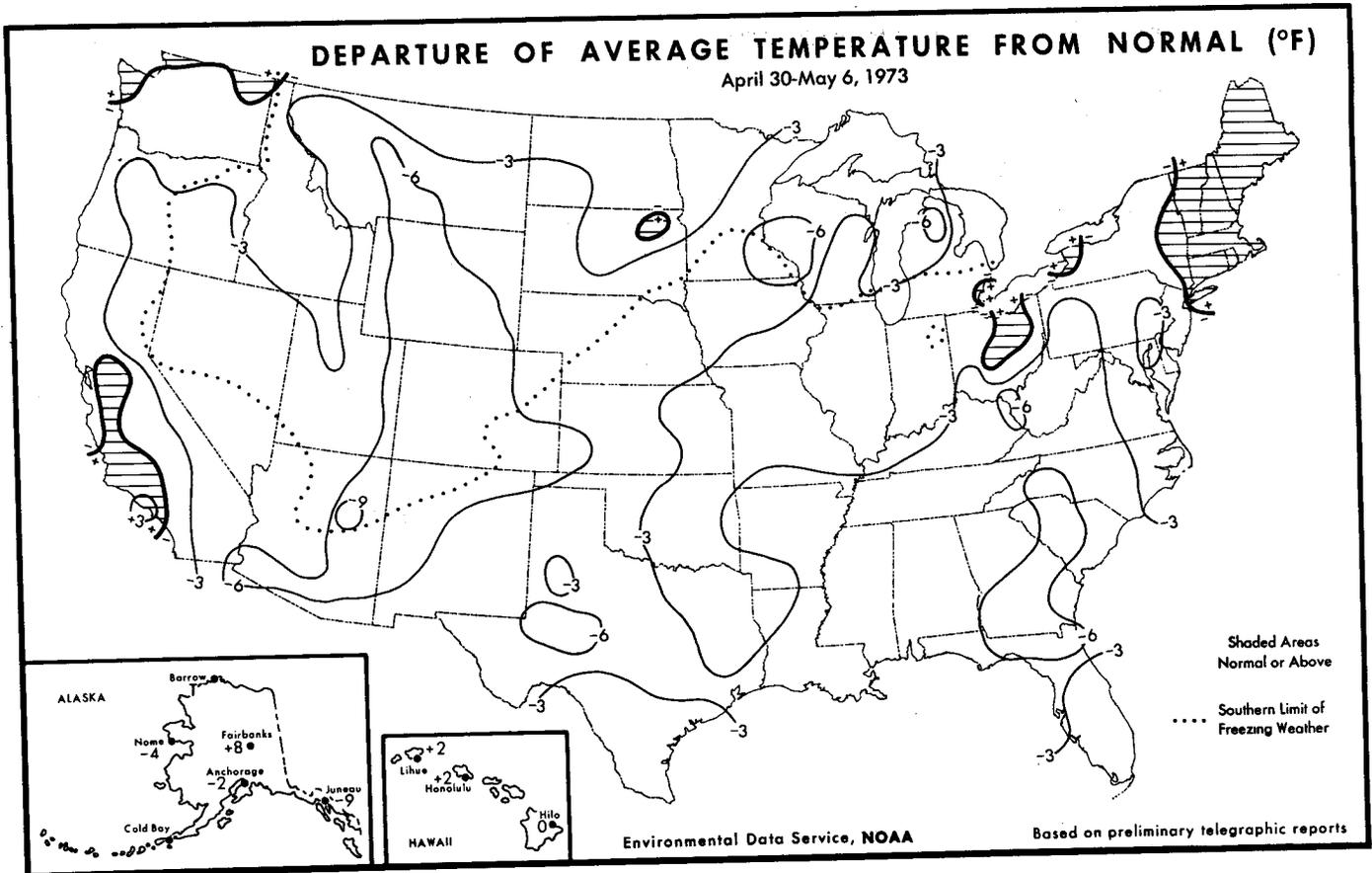
**HIGHLIGHTS:** While temperatures remained subnormal over most of the Nation, excessive rainfall fell over many areas including the already flooded Mississippi. The lower Mississippi Valley received from 2.00 to 4.00 inches of rain. The drought area in the Pacific Northwest was graced with from .30 to .80 inch of precipitation. The week ended with yet another nasty Low, situated over Oklahoma, bringing more unwanted rainfall over the soaked South and Midwest.

**PRECIPITATION:** While Monday was a nice day over much of the Nation, it saw the formation of a complex system of Lows over the Rockies. These formed a front with another Low over Iowa. The western Lows developed into a severe storm, which dumped over 1 foot of snow over sections of Wyoming early Tuesday. Flagstaff, Ariz., received snow on Tuesday, bringing the season's snows to 207.2 inches, about 40 inches more than the previous

record. It also triggered violent thunderstorms and seven tornadoes near Sunset, Okla. Further east along the front, hail 2 inches in diameter struck Illinois and piled up to 1 foot. Tractors were required to push hailstones off the roads. Some chunks of ice fused together to a 1-square-foot size.

The storm continued eastward causing rain and hail over the Corn Belt, and by Wednesday the Low was situated over Iowa. Meanwhile, a High off the Atlantic Coast circulated warm moist air off the Gulf into the Deep South. When this met the cold front, then extending from Lake Erie to the Texas coast, heavy rains occurred.

Heaviest rains drenched the lower Mississippi Valley and the Texas coastal plain. One inch fell on Houston, Tex., and Macomb, Miss., in 6 hours. Torrential rains deluged Arkansas, bringing precipitation received during the past 2 months to more than 2 feet.



An area near the White River in Arkansas received 2.87 inches of rain; Memphis, Tenn., received 2.09; the flooded Mississippi along the Missouri-Kentucky border received 2.71 inches. Meanwhile, Florida and the lower East Coast received scattered showers, as did the Pacific Northwest.

By Thursday the storm system moved north over the Great Lakes, where it weakened; however, it supported a band of thunderstorms from the western Gulf region to the Great Lakes. Activity was most violent in the South. A downpour left 3.60 inches of rain at Lake Charles, La., in a 6-hour period.

Showers clung to the cold front as it advanced east, spreading rains over the whole Eastern Seaboard on Thursday and Friday, when it dumped scattered thundershowers from New England to Florida.

In the west, a Pacific system struck the northern Pacific Coast, then moved inland to the northern Rockies and the Great Basin. Thunderstorms became unusually active from Washington to northern California, and east into Montana. A tornado touched down near Seattle, Wash., and hailstorms pelted Spokane, Wash., and Helena, Mont.

Saturday rain and snow fell over the northern Great Plains and by Sunday snow fell over higher elevations of northern Arizona and northwest New Mexico with showers extending north into Utah. As the storm system moved east, a High over Arkansas pumped warm moist Gulf air right into its path, and it was a wet Sunday over much of the Nation's midsection. Late Sunday, severe weather erupted from the Plains to the Ohio Valley. McAlester, Okla., reported 1.89 inch of rain and Harrison, Ark., 1.76 inch.

**TEMPERATURE:** The Nation enjoyed a cooler than average week. Most of the Corn Belt averaged from 1° to 3° below normal, while to the west average temperatures were down more. The area around Winslow, Ariz., was 9° below seasonal norms for the week. Only New England and parts of California remained warmer than normal.

While cooler weather prevailed, freezing temperatures confined themselves to the northern parts of the Lake States, the Dakotas and western Nebraska, and the Mountain States. Also, areas in West Virginia and Indiana fell below freezing on Saturday, May 5.

On Monday freezing temperatures restricted themselves to North Dakota and higher Rocky Mountain elevations. On Tuesday a mass of unseasonably cold air began to sweep across the Rockies. By Wednesday morning freezing temperatures bound the northern half of the Great Plains, extending south as far as Prescott, Ariz., in the mountains, where the mercury fell to 31°. Thursday the air mass advanced over the Plains on the Mississippi Valley. At 2 a.m. Flagstaff, Ariz., at 30°, was the coldest spot in the Nation. Also on Thursday a second cool air mass began to push its way across the Rockies. Friday temperatures remained cool over the Nation's midsection, but freezes were confined to high mountain areas.

Meanwhile, across the Great Lakes cold air began to flow in from Canada on Friday morning. The Lake States spent a coolish day, with high temperatures ranging from the low 40's into the high 50's. Saturday morning temperatures fell below freezing in most of Michigan and Wisconsin, with a few scattered freeze areas to the south.

## NATIONAL AGRICULTURAL SUMMARY

**AGRICULTURAL HIGHLIGHTS:** Winter wheat continues favorable development. \* Rain and wet fields hold corn planting to standstill in Corn Belt.

\* Very little progress planting cotton in South Central States. \* Very few soybeans planted.

**SMALL GRAINS:** Winter wheat prospects remain bright in the Great Plains as the crop continues to develop favorably with ample soil moisture supplies. Kansas wheat made favorable development with 82 percent of the acreage jointing, about normal progress. Nebraska winter wheat is in good to fair condition although weeds are a problem in some fields. Oklahoma wheat is in good to excellent condition with 33 percent of the acreage headed compared with average progress of 67 percent. Some leaf rust is appearing in Oklahoma wheat fields. Texas wheat and oats are making good to excellent progress although some fields have suffered hail damage. Winter wheat in most North Central States east of the Great Plains is in mostly good condition. Small grain crops in the South are over 50 percent headed. Increased soil moisture in Montana boosted winter wheat condition, now generally fair to good.

Small grains in Washington and Oregon are showing moisture stress especially on shallow soils and for spring planted acreage.

Small grain seeding is progressing rapidly and ahead of normal in the Dakotas and Minnesota. About 67 percent of the hard wheat and 40 percent of the Durum wheat is sown in North Dakota while 91 percent of the intended oats acreage in Minnesota is planted compared to a normal 57 percent. Spring wheat seeding in South Dakota is 95 percent done, normal 80 percent. Oat seeding is lagging behind normal in other North Central States because of wet fields.

**CORN:** Heavy rains early and again late last week along with saturated fields held corn planting to a virtual standstill in the Corn Belt. Some progress was made on plowing, but land preparation is far behind the usual stage of completion.

The Corn Belt crop is about 6 percent planted compared to 9 percent for last year's late start and a normal of 30 percent planted. The Corn Belt (North Central Region) accounts for 80 percent of the U. S. corn acreage intended for planting. Corn Belt farmers continue to wait for the 6 to 10 day period of dry weather to permit full scale planting. Last year, most of the corn crop was planted after May 15. Corn is 6 percent planted in Iowa, the leading corn producing State while Illinois corn is 5 percent planted. Both States usually have slightly over 30 percent planted by now. Corn Belt planting is most advanced in Minnesota at 16 percent complete. In the South, corn is about 48 percent planted, behind last year and normal progress.

**COTTON:** Another dismal week of downpours and flooding soaked the South Central States holding cotton planting in this region to 13 percent planted compared to about 47 percent last year. The need for dry weather is becoming critical. In Texas, the leading cotton producing State, cotton planting advanced very little to 13 percent complete compared with 37 percent a year earlier. Progress was slow and far behind schedule in Mississippi at 10 percent planted versus the normal 56 percent planted. Only 5 percent of the crop is planted in Arkansas while 60 per-

cent is normal. About 5 percent of the crop is planted in Louisiana, far behind last year's 60 percent while only 2 percent is planted in Tennessee. Flooding increased along the Lower Mississippi with about 9.7 million acres of land under water in Mississippi, Arkansas and Louisiana.

Farmers in the South Atlantic Region made good progress planting cotton under favorable weather. In California, cotton is nearly all planted.

**SOYBEANS:** Not many acres of soybeans have been planted so far except in the South Atlantic Region where good weather has favored outdoor activities. North Carolina soybean acreage is 7 percent planted compared to 8 percent a year earlier. The South Carolina crop is 2 percent planted versus 6 percent last year while the Georgia crop is about 4 percent planted. Most Southern farmers will be concentrating on getting cotton planted as fields dry.

Soybean planting started in Missouri and Minnesota but is less than 1 percent complete which is about normal. Ohio growers have about 5 percent of their acreage in. Virtually no acreage is seeded in other Corn Belt States.

**OTHER CROPS:** Wet weather continued to restrict fieldwork in the Central States except in the northern Plains. Fieldwork was active in the Atlantic States and the West. The total acreage flooded along the Mississippi River is 13.6 million acres according to the Army Corps of Engineers. Over half the acreage has been under water for 5 consecutive weeks. Sorghum planting in the southern Plains was slow with the Texas crop 41 percent planted compared to 51 percent last year. Only a few fields are seeded in Oklahoma, Kansas, and Missouri. Transplanting flue-cured tobacco started in Virginia and is 33% complete in North Carolina. Tobacco beds in Kentucky need sunshine. Peanuts are 56 percent planted in Georgia and 17 percent in Texas. Potato planting made good progress in southwest Idaho at 80 percent complete. Long Island, N. Y. potatoes are over 90 percent planted. The delayed sugar beet harvest in California is resulting in lower sugar content. Rice planting is far behind normal in Texas, Louisiana, and Arkansas.

**Fruits and Nuts:** Fruit trees in the Northeast are in various stages of blooming with no significant problems. The fruit set in the Pacific Northwest and California appears good. Peaches in Georgia and South Carolina are in fair to good condition. Citrus harvesting continues in Texas, Arizona, and California. The pecan casebearer is becoming apparent in many Texas pecan trees.

**Vegetables:** Planting of vegetables was quite active in the Northeast growing areas and in the Pacific Northwest. Onion planting is nearly completed in New York and sweet corn planting increased. All Florida vegetable areas are now in production with large volumes of sweet corn and tomatoes. Onion harvesting declined in the Texas Lower Rio Grande Valley, but is increasing near San Antonio. Vegetable harvesting continues strong in California under favorable weather.

**PASTURES AND LIVESTOCK:** Pasture growth is good in most northern areas, ahead of normal. Cattle continue slow movement to summer pastures in the northern Plains because new grass is still short. Ranges and pastures in Oregon and Washington are doing poorly due to the drought.

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., May 6, 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 . . .	64	-3	.3	-.6	La. Baton Rouge . . .	69	-3	1.0	0	Youngstown . . .	52	-3	.2	-.7
Mobile . . .	69	-3	T	-1.3	Lake Charles . . .	69	-4	4.2	+3.1	OKLA. Okla. City . . .	62	-2	.5	-.4
Montgomery . . .	65	-4	.2	-.7	New Orleans . . .	68	-4	.2	-.8	Tulsa . . .	64	-1	2.9	+1.9
ALASKA Anchorage . . .	40	-2	.1	0	Shreveport . . .	68	-2	.2	-.8	OREG. Astoria . . .	50	-1	.1	-.9
Barrow . . .	9	-3	.1	+.1	MAINE Caribou . . .	45	0	.2	-.4	Burns . . .	47	-5	.6	+.4
Fairbanks . . .	49	+8	.1	+.1	Portland . . .	49	0	.3	-.5	Medford . . .	58	0	.1	-.2
Juneau . . .	34	-9	---	---	MD. Baltimore . . .	57	-4	.4	-.4	Pendleton . . .	56	-1	T	-.2
Kodiak . . .	25	-4	.1	-.1	MASS. Boston . . .	55	+1	.1	-.7	Portland . . .	56	0	.2	-.2
Nome . . .	43	-5	1.0	+.8	Chatham . . .	50	---	T	---	Salem . . .	52	-3	.1	-.4
ARIZ. Flagstaff . . .	70	-4	T	-.1	MICH. Alpena . . .	47	-1	.8	+.1	PA. Allentown . . .	54	-3	.5	-.4
Phoenix . . .	63	-6	T	-.1	Detroit . . .	54	0	.7	-.1	Erie . . .	51	-2	.6	-.3
Tucson . . .	53	-9	T	-.1	Flint . . .	50	-3	.7	0	Harrisburg . . .	58	-1	.2	-.6
Winslow . . .	71	-7	0	0	Grand Rapids . . .	51	-2	2.1	+1.4	Philadelphia . . .	59	0	.3	-.6
Yuma . . .	62	-5	1.8	+.7	Houghton Lake . . .	46	-7	.6	0	Pittsburgh . . .	53	-3	.3	-.4
ARK. Fort Smith . . .	65	-3	2.0	+.8	Lansing . . .	51	-2	.8	0	Scranton . . .	52	-2	.2	-.6
Little Rock . . .	68	-0	.1	-.1	Marquette . . .	41	-5	4.7	+4.0	R. I. Providence . . .	55	+1	.1	-.8
CALIF. Bakersfield . . .	50	-2	.3	-.2	Muskegon . . .	48	-3	1.7	+1.0	S. C. Charleston . . .	64	-5	.2	-.5
Eureka . . .	64	-2	T	-.2	S. Ste. Marie . . .	42	-3	1.9	+1.4	Columbia . . .	62	-7	.3	-.6
Fresno . . .	64	+4	0	-.1	MINN. Duluth . . .	41	-5	1.0	+.4	Greenville . . .	62	-5	.2	-.7
Los Angeles . . .	63	-3	T	-.4	Internatl Falls . . .	46	0	T	-.4	S. D. Aberdeen . . .	54	+1	T	-.6
Red Bluff . . .	62	-1	T	-.1	Minneapolis . . .	47	-6	1.7	+1.2	Huron . . .	52	-3	.8	+.3
San Diego . . .	54	-3	.1	-.1	Rochester . . .	46	-7	2.4	+1.8	Rapid City . . .	50	-3	.7	+.2
San Francisco . . .	64	+1	T	-.1	St. Cloud . . .	47	-4	1.1	+.5	Sioux Falls . . .	51	-4	1.2	+.6
Stockton . . .	47	-6	4.5	+4.0	MISS. Jackson . . .	67	-3	1.2	+.2	TENN. Chattanooga . . .	61	-4	.2	-.7
COLO. Denver . . .	52	-7	1.3	+1.2	Meridian . . .	66	-4	.7	-.4	Knoxville . . .	61	-4	.3	-.5
Grand Junction . . .	51	-6	1.8	+1.4	MO. Columbia . . .	59	-2	1.4	+.5	Memphis . . .	64	-5	2.3	+1.3
Pueblo . . .	54	0	.2	-.7	Kansas City . . .	59	-2	3.4	+2.5	Nashville . . .	61	-5	1.1	+.2
CONN. Bridgeport . . .	57	+2	.3	-.5	St. Louis . . .	60	-2	.4	-.5	TEX. Abilene . . .	65	-4	.1	-.6
Hartford . . .	60	-2	.4	-.4	Springfield . . .	58	-3	1.9	+.8	Amarillo . . .	58	-4	T	-.4
D. C. Washington . . .	69	-3	T	-.7	MONT. Billings . . .	46	-7	.8	+.5	Austin . . .	68	-3	2.7	+1.6
FLA. Apalachicola . . .	68	-5	---	---	Glasgow . . .	51	-2	T	-.3	Beaumont . . .	69	-3	.2	-.2
Daytona Beach . . .	74	-2	T	-.6	Great Falls . . .	46	-6	.1	-.3	Brownsville . . .	76	-1	.2	-.2
Ft. Myers . . .	66	-7	0	-.8	Havre . . .	50	-1	T	-.2	Corpus Christi . . .	74	-2	T	-.5
Jacksonville . . .	77	-1	0	-.6	Helena . . .	46	-5	.2	-.1	Dallas . . .	74	-2	.1	-.4
Key West . . .	72	-3	0	-.8	Kalispell . . .	46	-4	.1	-.1	Del Rio . . .	63	-5	.1	0
Lakeland . . .	76	0	.1	-1.1	Miles City . . .	51	-4	.4	+.1	El Paso . . .	67	-3	1.7	+.7
Miami . . .	74	0	0	-.7	Missoula . . .	48	-3	.1	-.2	Fort Worth . . .	70	-3	.1	-.6
Orlando . . .	64	-8	T	-.9	NEBR. Grand Island . . .	52	-6	.6	-.1	Galveston . . .	69	-3	.4	-.4
Tallahassee . . .	72	-3	0	-.6	Lincoln . . .	54	-5	1.1	+.4	Houston . . .	63	-2	T	-.4
Tampa . . .	61	-5	.3	-.6	Norfolk . . .	53	-3	.4	-.2	Lubbock . . .	69	-3	.4	-.4
W. Palm Beach . . .	62	-6	.2	-.6	N. Platte . . .	52	-3	.4	-.2	Midland . . .	62	-8	T	-.3
GA. Atlanta . . .	65	-6	.1	-.7	Omaha . . .	54	-4	1.0	+.3	San Angelo . . .	66	-6	T	-.8
Augusta . . .	67	-3	T	-.8	Valentine . . .	51	-3	1.0	+.5	San Antonio . . .	71	-1	1.3	+.6
Macon . . .	73	0	1.1	-1.4	NEV. Ely . . .	44	-4	.1	-.1	Victoria . . .	72	-2	.2	-.4
Savannah . . .	77	+2	T	-.2	Las Vegas . . .	64	-5	.4	+.3	Waco . . .	67	-5	.9	0
HAWAII. Hilo . . .	---	---	---	---	Reno . . .	48	-4	T	-.1	Wichita Falls . . .	62	-6	.2	-.6
Honolulu . . .	76	+2	.5	-.2	Winnemucca . . .	47	-4	.2	0	UTAH. Blanding . . .	47	-6	.4	+.2
Kahului . . .	55	-1	T	-.3	N.H. Concord . . .	51	0	.2	-.5	Salt Lake City . . .	55	-1	T	-.4
Lihue . . .	54	-2	.3	0	N.J. Atlantic City . . .	56	-1	.3	-.5	VT. Burlington . . .	51	0	.8	+.2
IDAHO. Boise . . .	50	-3	.1	-.1	Trenton . . .	57	-2	.4	-.4	Norfolk . . .	64	0	.2	-.5
Lewiston . . .	60	-6	2.7	+1.8	N.MEX. Albuquerque . . .	56	-6	.3	+.2	VA. Lynchburg . . .	58	-4	.2	-.6
Pocatello . . .	54	-2	2.4	+1.7	Roswell . . .	---	---	---	---	Richmond . . .	62	-1	.4	-.4
ILL. Cairo . . .	55	-3	3.1	+2.3	N.Y. Albany . . .	55	+1	.1	-.6	Roanoke . . .	58	-5	.1	-.6
Chicago . . .	56	-1	.8	-.2	Binghamton . . .	49	-2	.3	-.4	WASH. Colville . . .	53	+1	.2	-.1
Moline . . .	53	-2	2.6	+1.8	Buffalo . . .	52	+2	.3	-.4	Omak . . .	54	-1	0	-.2
Peoria . . .	57	-2	.8	0	New York . . .	58	0	.6	-.2	Quillayute . . .	50	0	.8	-.4
Rockford . . .	60	-2	1.2	+.3	Rochester . . .	52	-1	.4	-.2	Seattle-Tacoma . . .	53	-1	.1	-.4
Springfield . . .	54	-2	2.4	+1.7	Syracuse . . .	51	-2	.9	+.2	Spokane . . .	52	-2	.4	+.2
IND. Evansville . . .	57	-2	.8	0	N. C. Asheville . . .	55	-6	.3	-.4	Walla Walla . . .	50	0	T	-.3
Ft. Wayne . . .	54	-2	.1	-.7	Charlotte . . .	60	-6	T	-.8	Yakima . . .	55	-1	T	-.1
Indianapolis . . .	57	-1	.2	-.7	Greensboro . . .	58	-5	1.2	+.4	W. Va. Beckley . . .	54	-3	.7	-.2
South Bend . . .	54	-1	.6	-.3	Hatteras . . .	63	-1	1.0	+.3	Charleston . . .	57	-4	1.3	+.5
IOWA. Burlington . . .	57	-1	2.0	+1.1	Raleigh . . .	61	-4	.5	-.4	Huntington . . .	55	-8	.9	+.2
Des Moines . . .	55	-3	2.4	+1.8	Wilmington . . .	64	-3	.6	0	Parkersburg . . .	56	-4	.5	-.2
Dubuque . . .	52	-2	2.3	+1.5	N. DAK. Bismarck . . .	49	-3	T	-.3	WIS. Green Bay . . .	48	-2	1.7	+1.1
Sioux City . . .	55	-2	.9	+.3	Fargo . . .	50	-2	T	-.5	La Crosse . . .	48	-7	2.2	+1.5
KANS. Concordia . . .	57	-3	2.1	+1.5	Williston . . .	50	-2	T	-.3	Madison . . .	51	-1	2.4	+1.7
Dodge City . . .	54	-6	.1	-.5	OHIO. Akron-Canton . . .	54	0	.2	-.6	Milwaukee . . .	47	-3	1.2	+.5
Goodland . . .	50	-5	1.6	+1.1	Cincinnati . . .	56	-4	.2	-.7	WYO. Casper . . .	43	-7	1.3	+.8
Topeka . . .	60	-1	2.8	+1.9	Cleveland . . .	54	0	.5	-.3	Cheyenne . . .	40	-8	.4	-.1
Wichita . . .	59	-4	1.6	+.9	Columbus . . .	58	0	.1	-.8	Lander . . .	43	-7	1.1	+.4
KY. Lexington . . .	58	-3	.8	-.0	Dayton . . .	55	-3	.5	-.3	Sheridan . . .	46	-5	.8	+.3
Louisville . . .	59	-2	.4	-.5	Toledo . . .	53	-1	.4	-.3	P. R. San Juan . . .	---	---	---	---

## 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 office of the Statistical Reporting Service, U.S.D.A. in cooperation with NOAA Climatologists.

**ALABAMA:** Cool Friday brought clearing skies after 3 days of scattered rainfall and slightly above normal temperatures. Rainfall through Thursday morning generally widely scattered, most totals less than 0.50 inch. Greatest accumulations central about 0.75 inch. Temperatures remained subnormal after Thursday as nighttime lows dipped into upper-30's some northeastern valley sections. Mild afternoons with highs mostly in the 70's during weekend with low for the week 39° at Anniston Saturday. Planting cotton and corn good progress in driest fields. Scattered rains, wet ground, slowed these operations north and central. Farmers also busy preparing soybean land and completing plowing lowland cotton and corn ground. Few fields planted to soybeans in south. Cotton planting about 25% complete compared to 75% last year. Earliest plantings up to uneven stands as wet ground and cool temperatures slowed germination. Planting of corn 33% complete, 67% year earlier. Almost 33% expected peanut acreage planted, 90% year earlier. Small grains made satisfactory progress, few fields beginning to yellow. Hay crops made good growth. First digging of potatoes Baldwin, Mobile, Escambia Counties.

**ALASKA:** Temperatures: Tanana Valley about 5° above normal, no precipitation. Lowest temperature 17°. Anchorage area subnormal about 3°. Kodiak reported only significant precipitation. Kenai peninsula: Near normal temperatures and insignificant precipitation. Kodiak near normal both temperature and precipitation. Freezing temperatures all areas. Soil moisture supply mostly adequate. Some vegetable planting done in Matanuska Valley. Fields still too wet most areas for cultivation. Fertilizer applied hay fields where possible. Fieldwork should be general by mid-May. Livestock generally good. Adequate feed supplies still available. Minimal buying of outside roughage--a big change over previous two winters.

**ARIZONA:** Mostly subnormal temperatures. Strong warming midweek. Gustly winds, abrupt clouding weekend. Showers Monday, weekend north-central, White Mountains. Local about 0.50 inch or more. Lower elevation stations largest amounts. Cotton behind schedule. Yuma County cultivation, post-emergence irrigating. Planting remains other areas. Replanting Pima, Graham Counties. Small grains good progress. Coloring, Maturing, Yuma County. First safflower buds opened, Yuma County. Sorghum good progress, still planting. Sugar beet harvest began Yuma County. Other areas normal progress. Harvest first cutting alfalfa hay normal rate most areas. Yuma County second cutting. Lettuce harvest central peaked. Cantaloupe growth progressing well but remains behind normal. Select picking early variety peaches started Queen Creek area. Valencia orange harvest continues, market continues fair. Grapefruit picking limited, market poor. New growth, blooms appear good. Ranges good statewide. Cold temperatures, wind, scattered rain. Snows melting higher elevations, replenishing ground moisture, stockwater. Lower ranges green. Wind depleting topsoil moisture. Cattle, calves good; calving active. Sheep, lambs fair northern Indian reservations. Sheep, lambs on winter pastures moving summer ranges.

**ARKANSAS:** Highest 82° several locations south on 2nd. Lowest 34° Calico Rock north-central 4th. Rainfall abundant, most sections over 2.00 inches. Largest: from 3.00 to almost 5.50 inches in a band from westcentral to northeast and along south-central border. Largest amount 5.45 inches Reiser in northeast. Smallest 0.18 inch Hope in southwest. Most rain fell early week and weekend. Limited fieldwork, more rain causing further delay in planting. Several hundred-thousand acres flooded. Time for planting cotton and midseason rice becoming critical. Cotton less than 5% planted, normally 60%. Rice 15% seeded, normally 85%. No soybeans or sorghums planted. Few acres corn planted--stands poor. Wheat and oats fair to good except flooded area poor. Hay crops good--cutting beginning. Fruit crops fair to good. Strawberry picking beginning. Tomato prospects good. Pasture condition mostly average and above.

**CALIFORNIA:** Sunshine predominant. Some showers northern mountains, southern desert; patchy fog coast. Front on 4th, brought rain coast, thunder-showers Sacramento Valley, snow northern mountains, Sierras. Temperatures held near normal Central Valley, slightly subnormal elsewhere. Strong winds plagued coast, mountains during frontal passage. Fieldwork progressed rapidly, minor delays southern coastal area light showers early week. Small grains maturing, available moisture generally adequate. Some fields turning Sacramento Valley, haying active. Combining desert barley active, beginning wheat. Delayed sugar beet harvest resulting increased tonnage, lower sugar and bolting. Cotton nearly all planted. Safflower making good progress. Rice, corn and milo planting active. First cutting alfalfa active north, second underway south. Spring cultural activities for fruit and nuts continue all districts. Growers continue irrigation. Harvest burlat, chapman cherries getting underway. Fruit sets apricots, cherries, grapes, nectarines, pears, prunes, walnuts appear good most districts. Harvest Valencia oranges south California increasing, most packing-houses receiving fruit. San Joaquin Valley harvest increasing, above normal elimination. Navel orange harvest nearly complete. Harvest lemons active south California, expected decrease. Artichoke harvest nearing end Santa Maria. Asparagus harvest continued strong; most cuttings to processors. Supplies broccoli, cauliflower heavy Salinas; moderate remaining central coast. Cabbage quality good, movement steady San Diego. Carrot digging increased Imperial, continued Riverside. Celery active Orange, Oxnard with some abandonment last month. Lettuce slowing Westside, Bakersfield, Santa Maria strong production, good demand. Salinas harvest increasing. Onion grading increased momentum Imperial, continued Riverside. Strawberry continues fast pace; picking continues Orange, cool weather some difficulty Anaheim. Cool weather some damage Santa Barbara. Some mold, decay reported San Diego, quality generally good. Few market tomatoes picked. Tomato areas report good growth, some staking. Range feed plentiful, drying out lower elevations. Central valley sheep shearing continues. Lambing, calving well along. Spring lambs heavier than normal. Bee colonies doing well citrus areas San Joaquin Valley.

**COLORADO:** Two major storms: One early week dropped 0.75 inches rain eastern plains, 0.50 inch western slopes and 6 to 12 inches snow mountains and foothills. Largest amounts 1.62 inches Kit Carson, 1.25 inches Longmont and 1.13 inches Aspen. Second storm end week brought 1.00 to 4.00 inches rain to eastern plains, 0.50 to 1.00 inch Colorado River drainage and 6 to 30 inches of snow mountains. Greatest amounts 4.0 inches rain at Blackhawk and 3.56 inches Denver with 31 inches snow Squaw Mountain and 30 inches Divide. Temperatures near normal or slightly subnormal. Extremes: 87° Lamar, 5° North Lake. Rain and snow curtailed field activities first of week eastern plains. Fieldwork generally active other areas. Spring planting 2 to 3 weeks behind year earlier. Cool wet soils continue to slow seed germination and plant emergence. Soil moisture supplies adequate to surplus statewide. Winter wheat and barley condition generally good, 42% winter wheat jointing, 70% year ago. Spring barley 58% seeded, 22% emerged, condition good. Oats 48% seeded, 24% emerged, good. Sugar beets 28% seeded, 5% emerged, fair to good. Late summer potatoes 31% seeded, 5% emerged, fair. Fall potato seeding progressing. Corn planting 7% complete, 43% last year. Condition alfalfa good to excellent, growth slow. Range and pastures fair to good. Livestock fair. Supplemental feeding continuing most areas.

**FLORIDA:** Cool, dry. Cold frontal passage end week brought little or no rainfall. Low temperatures first of week in 40's far south as central area. Record low temperatures north Sunday. Most stations no rainfall but two locations northwest received about 1.00 inch Thursday preceding cold front. Planting corn, cotton and peanuts continue. Soybean planting started. Wheat harvest 2 to 3 weeks away. All areas except north and west need rain. Principal cattle areas dry with declining pasture and range grasses. Grazing in upper Florida good. Cattle and calves remain good statewide. Citrus trees and new crop fruit need rain, irrigating underway. Very little leaf curl. Trees shelling off new fruit as they adjust to crop size. Remaining Valencia's beginning to soften. All vegetable areas now in production large volume crops. Sweet corn, tomatoes, potatoes, watermelons, cucumbers increasing. Celery, beans, peppers about steady. Cabbage, other leaf crops declining.

**GEORGIA:** Light rainfall at midweek. Variable amounts averaging about 0.30 inch north and west to 0.10 inch or less southeast. Mild early and then much cooler by weekend. Frost and near freezing parts extreme north Friday night with lowest 30° at Clayton. Averaged 2° to 6° subnormal. Soil moisture surplus north and south-central, adequate elsewhere. Fieldwork very active. Cool soil temperatures and crusting causing poor stands, replanting widespread. Tobacco transplanting 99% complete, condition fair. Corn 68% planted, 90% usual, condition fair to good. Cotton 46% seeded, normal 77%--poor to mostly fair, much replanting. Peanuts 43% planted, less than one-half normal--fair, stands poor. Soybeans 4% planted, less than one-third normal. Small grains fair to mostly good, silage harvest active. Peaches fair to good. Pastures and cattle good.

**HAWAII:** Warm, clear, light mountain showers. Soil moisture adequate--crop progress fair to good. Supplies of vegetables ample. Bananas light, papayas and watermelons increasing seasonally. Sugarcane harvest on schedule. Pineapple harvest becoming active. Pastures and cattle fair to good.

**IDAHO:** Cooler temperatures early week. Averages: up to 8° below normal. Averages ranged from 40° lower valleys to 55° Grandview. Precipitation generally light except in north and eastern highlands where more than normal several stations. Dry conditions helped planting except east. Wet, cold soil hindering east. Corn planting started. Thinning and blocking of sugar beets begun. Calving and lambing complete. Spring grain seeding is 90% complete southwest, 85% southcentral, 45% east. Emerged stands of small grains average. Potato planting 80% complete southwest, 25% southcentral, east. Sugar beet planting close to completion southwest, 90% southcentral, east. Emerged stands sugar beets average. Dry pea and lentil seeding completed.

**ILLINOIS:** Temperatures 1° to 6° subnormal. Cool spell Thursday through Friday. Temperatures dipped into 30's north Friday. Heaviest precipitation early week north with up to 2.00 inches. Little or no precipitation fell latter half. Nearly 5% corn crop planted, well below normal. Plowing corn, soybean acreage advanced to nearly 45% complete, 1970-72 average 87%. Farmers must plow around wet spots many fields. Oat seeding nearly 65% complete, average 95%. Winter wheat 11% excellent, 68% good, 20% fair, 1% poor. Red clover, alfalfa mostly good. Pastures 27% excellent, 67% good, 6% fair. Pastures supplying nearly 75% livestock roughage requirement. Soil moisture 90% surplus, 10% adequate. Fieldwork occurred where possible, 2 days suitable.

**INDIANA:** Showers early week: 0.50 to 1.00 inch, heaviest in southwest. Four week totals 1.00 to 2.00 inches above normal southwest. Low humidities and sunny skies favored high soil drying rates on 4th and 5th. Soil temperatures in 50's. Air temperatures: from 29° on 5th to 76° on 2nd, averaged 2° subnormal. Fieldwork: 4 days suitable. Good drying conditions most week. Topsoil moisture adequate to surplus. Subsoil moisture adequate to mostly surplus. Corn and soybean land 30% plowed, 60% in 1972 and 70% average. Corn less than 5% seeded, 10% in 1972 and 15% average. Oats 60% seeded, same as 1972, 2 weeks behind average. Clover 70% seeded. Wheat 12 inches high, 11 inches in 1972. Pastures improved, mostly good.

**IOWA:** Above normal precipitation continued from showers and thunderstorms. Extreme southeast had locally over 4.00 inches. Temperatures a few degrees subnormal. Frost north and central on 3rd. More rain slows progress, 2 days suitable for fieldwork. Plowing 55%, behind 84% 1972 and 1967-1971 average 89%. Oat seeding 68%, behind 92% 1972 and average 98%. Oats stands reported 85% of normal. About 6% corn planted, behind 9% 1972 and average 32%. Reports indicate 6% alfalfa and clover seeding winterkilled. Feed supplied by pastures mostly average. Topsoil moisture 87% surplus and 13% adequate.

**KANSAS:** Moderate storm systems first and last week; fair weather prevailing through midweek. Storms brought substantial rainfall north and east; amounts locally in excess of 2.00 inches. Tornado activity Wichita area with first weather system and near Bolton over weekend. Temperatures: near normal northeast to 6° subnormal southwest. Seedbed preparation, corn planting made a little progress between rains. Corn 6% planted, 32% last year, 38% average. Fieldwork gained momentum by midweek, but halted many areas by weekend rains. Only few fields sorghum planted, 4% year ago, 5% average. Alfalfa cutting for dehydrators started. Some eastern and southern alfalfa hurt by weevils.

Wheat continued favorable development, 82% jointing with a few fields southeast heading. Last year 87% wheat jointing, 81% average. Surface, subsoil moisture adequate to surplus. Wheat outgrowing soil borne mosaic many areas but more streak mosaic reported. Pastures good growth with livestock obtaining more roughage from grazing. Most cattle off wheat for harvest. Spring calving final stages.

**KENTUCKY:** Temperatures 5° above normal first half and 5° to 10° subnormal later. Rainfall: 0.50 to 1.00 inch over east and north and 1.00 to 3.00 inches west and southcentral. Most rain fell first half, only light amounts west Sunday. Outdoor activity continued slow pace, 2 days fieldwork. About 90% cropland too wet to till. Corn planting 6%, 26% last year, 69% in 1971. Tobacco beds fair to good--50% size dime or less, 17% size half-dollar or larger, beds need sunshine. Wheat 50% headed--need sunshine. Pasture excellent. Fruit crops outlook dim, freeze damage severe.

**LOUISIANA:** Fair and cool early and end week and little warmer with scattered thundershowers midweek. Weekly temperatures 2° to 6° subnormal. Extremes: 83° Wednesday several stations and 42° Ashland Friday. Rainfall totaled from less than 0.30 inch parts north and south to locally more than 4.00 inches from southwest into central. Greatest 1-day total, 5.25 inches, Oberlin Wednesday. Some scattered land preparation and planting, good drainage especially south. Cotton about 5% planted, 60% year earlier--rice 50% and 90%, corn 30% and 90%, sweet potatoes 20% and 20%. Heavy rainfall late week will further delay fieldwork and necessitate some replanting. Some shift in planting intentions expected. Flooded areas expanding as rivers continue to rise. Pasture feed about average--considerable acreage under water. Livestock fair to good except where stranded. Evacuation and movement to market continued.

**MARYLAND AND DELAWARE:** Temperatures near 4° subnormal. Warming through Wednesday. Extremes: Low to mid-30's mornings of 30th and 4th to near 80 to mid-80's on 2nd and 3rd. Scattered frost reported 30th and 4th. Precipitation: 1.00 to 2.00 inches falling 28th thru 30th and 3rd and 4th extreme west, with 1.00 to 2.00 inches snow on 28th. Elsewhere, 0.25 to 0.75 inch falling 28th and again 3rd and 4th with a few amounts over 1.00 inch eastern shore on 3rd. Weekend: scattered frost Saturday morning then fair warming to near 70° Sunday. Fieldwork favorable until Thursday. Corn planting ahead of normal especially Southern Shore. Tobacco plant beds growing well, transplanting started. Barley heading. All areas wheat starting to head. Commercial vegetable planting well along Southern Shore. Low temperatures endangered orchards but only light damage indicated. Strawberry picking expected mid-May Southern Shore.

**MICHIGAN:** Week started mild lower and cold upper peninsula. Temperatures averaged near to slightly subnormal lower and 3° to 6° subnormal upper peninsula. Mild temperatures late week. From 0.5 to near 1.0 foot of snow west upper peninsula midweek preceded by around 2.00 inches of rain. No significant tree fruit damage in spite of lows in upper-20's Saturday. Ground level temperatures reached the mid-20's in places and growers in west took protective measures for strawberries, grapes and cherries. Rains and wet fields further delayed fieldwork, only 1.9 days suitable. Soil moisture mostly surplus. About 33% of acreage intended for

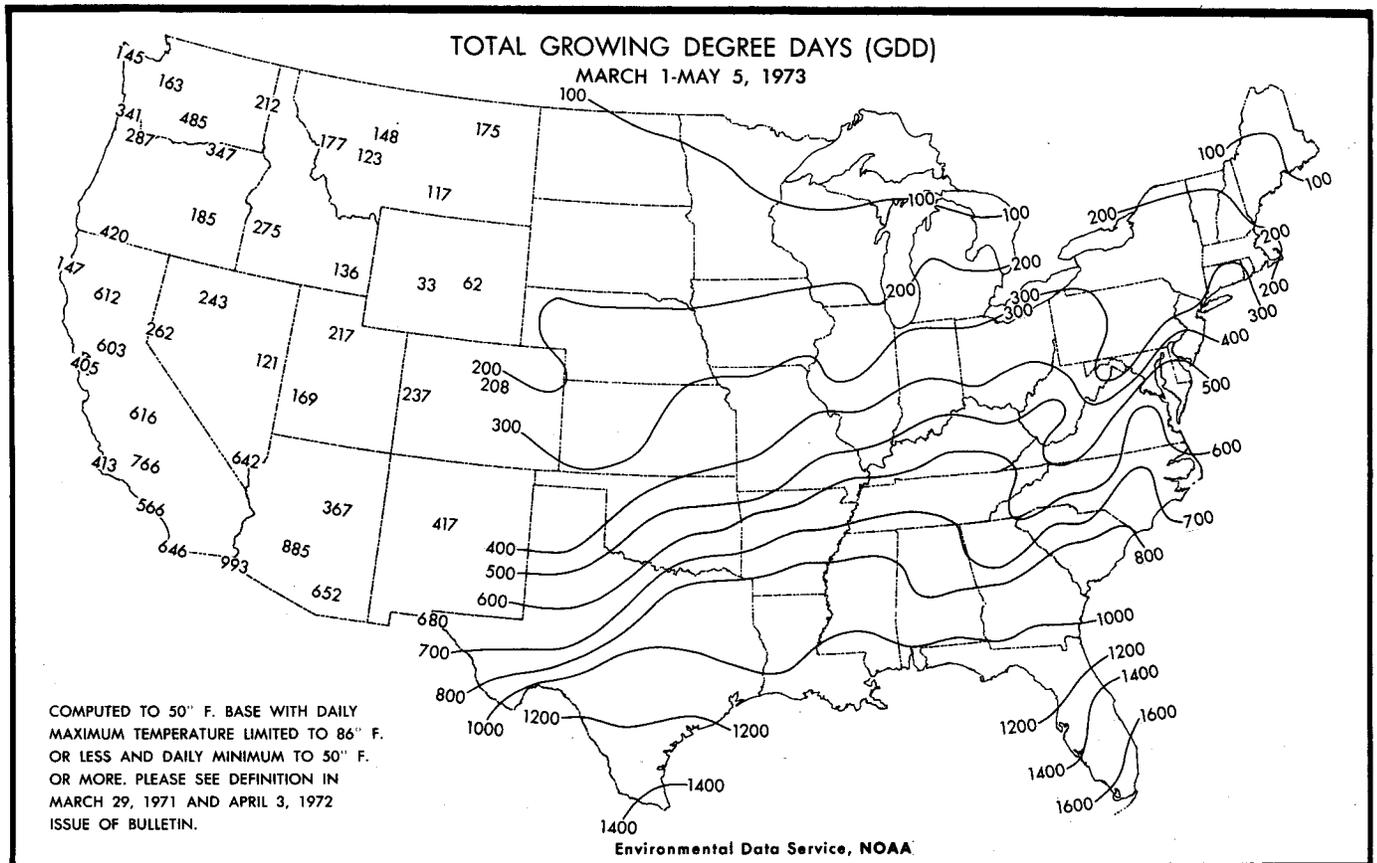
spring planting now plowed. 47% a year ago and 65% in 1971. Oats 48% planted, 40% year ago and 75% in 1971. Sugar beets 43%, potatoes 19% planted. Wet soils delaying corn plowing; some corn planted. Wheat developing well. Apples full bloom southwest. Cold, windy weather unfavorable for good pollination. Sweet cherries started to bloom while tart cherries reached pink stage northwest lower peninsula.

**MINNESOTA:** Temperatures 4° subnormal northwest, 10° subnormal southeast. Extremes upper-60's west, upper teens north. Precipitation continued 0.33 to 0.50 inch subnormal north-central, northwest. Central ranged excessive, 0.50 to 2.00 inches above normal; southeast 2.00 to 3.00 inches above normal. Moderate flooding streams, rivers southeast. Soil moisture adequate for planting and crops, except short to very short northwest and surplus in the southcentral and southeast. Pastures, hay fields, winter wheat fair to good. Rye good. Plant growth fair. Possible fieldwork days: 5 to 6 north, 3 to 5 central, 0 to 3 south. Fieldwork generally 2 weeks ahead except southeast where 2 weeks behind. Spring wheat 98% planted, normal 50%, 40% emerged. Oats 91% planted, normal 57%, 42% emerged. Barley 83% planted, normal 40%, 26% emerged. Flax 66% planted, normal 25%, 14% emerged. Corn 16% planted, normal 17%. Soybeans 1% planted, normal 1%. Potatoes 19% planted, sugar beets 29%.

**MISSISSIPPI:** Temperatures 3° to 8° subnormal. Scattered frost over extreme north Saturday. Rainfall generally from 1.00 to 2.00 inches, except southeast where less than 0.75 inch. Scattered showers Tuesday through Wednesday nights. Mild weekend. Showers Sunday and spread east Monday morning. Fieldwork: 2.2 days compared with 0.4 day previous week and 3.0 days a year ago. Land preparation 40% complete. Corn 28% planted, last year 65%, normally 55%. Cotton 10% planted, a year ago 66%, normally 56% complete. Small grains fair to good. Wheat and oats 95% headed. Irish potatoes and truck crops fair. Pastures and livestock fair to good. Peaches very poor to good.

**MISSOURI:** Cool week, generally above normal rainfall but amounts quite variable. Some limited areas had subnormal rainfall while others were much above normal. Temperatures near normal, but mostly 4° subnormal. Number of stations in low-lying areas in 30's with light frost May 3. Over weekend of 6th and 7th general rains again spread, totals over 1.00 inch. Some areas over 2.00 inches. Some local flooding in heavier rain areas and at weekend Missouri River from central to the mouth and Mississippi River still as much as 5 to 8 feet above flood stage. Thousands of acres of bottom land still under water from recent record floods. Fieldwork: 1 day suitable. Plowing 14% complete, virtually done last year. Corn 3% planted, 30% year ago. Soybean planting started, year ago 2% complete. Few reports grain sorghum planted, 4% planted last year. Little cotton planted, 24% complete year ago. Oats sowing virtually completed because of season. Wheat 10% headed, 31% last year, mostly fair. Pasture good. Soil moisture surplus.

**MONTANA:** Cool, showery week. Temperatures 2° to 9° subnormal. Warming over weekend, temperatures near normal Saturday and Sunday. Significant amounts precipitation over southcentral and southern portion southwest. Spotty coverage and much smaller amounts elsewhere. Topsoil and subsoil moisture adequate eastern third and south-



central; short to adequate elsewhere. Winter wheat generally fair to good. Barley seeding 50% complete, spring wheat and oats 55%, corn 15%, potatoes 25%, dry beans 10%, sugar beets, 75%. Prospective supplies irrigation water mostly below average. Range feed supplies short north-central, central and southwest, short to adequate elsewhere. Stockwater supplies adequate southern half, short to adequate elsewhere. Cattle and sheep losses by disease mostly light--heavier portions southcentral and southeast. Calving and lambing 85% complete and shearing 75% complete. Cattle 20%, sheep 25% moved to summer ranges. 65% cattle, 60% sheep receiving supplemental feed.

**NEBRASKA:** Moisture above normal with rainfall 1.00 inch or more over much of northwest and southeast. Highs above normal 4th and 5th. Averaged 2° to 5° subnormal. Three and one-half days suitable fieldwork. Most fieldwork early or late week. Topsoil moisture 37% surplus, 63% adequate; subsoil 35% surplus, 65% adequate. Fieldwork consisted shredding stalks, spreading fertilizer, seedbed preparation, planting corn and small grains. Corn planting 6% complete before weekend rains stopped progress, a year ago 6% planted, 1967-72 averaged 19%. Soils too cool for corn to germinate. Planting sugar beets continued, early planted beets emerging well, little damage Thursday morning freeze. Winter wheat good to fair. Weeds a problem some fields. Alfalfa and wild hay condition good. Range and pasture feed 20% above average, 61% average and 19% below average. Cattle continue move to summer pasture, new grass still short. Many cows thin from long, hard winter and spring. Calving complete many ranches. Feedlots better but some still muddy.

**NEVADA:** Temperatures 3° to 4° subnormal except extreme south 7° subnormal. Extremes: Logandale 87°, 17° Mountain City. Heaviest rainfall 0.39 inch Battle Mountain. Planting spring grains progressing satisfactorily. Cotton all planted, plants emerging. Alfalfa hay fair to good, 1st cutting completed southern valleys. Calving, lambing, shearing well along. Livestock good. Ranges good to excellent.

**NEW ENGLAND:** Temperatures 1° to 3° above normal most of south and west. Warming south and west midweek, then cooling at weekend. Most rainfall totals under 0.33 inch. Maine Rivers receding. Season remains about 2 weeks ahead of normal. Fieldwork active till weekend rains. Much silage corn and vegetables planted. Fertilizer shortages some areas. McIntosh apples and pears full bloom south, peaches and plums petal fall. Negligible damage from frosts Tuesday, Wednesday, Sunday.

**NEW JERSEY:** Near normal temperatures ranging near 80° on 2nd and 3rd to mid-30's on morning of 7th. Precipitation: Around 0.50 inch over north and coast and 0.36 inch over southern interior falling on 3rd. Cool weather slowing crop growth. Low, heavy soils still too wet to plant. Planting on light soil advancing. Asparagus volume moderate. Processing tomato planting begun. White potato planting about complete: Early plantings are up. Onions up 12 to 14 inches. Sweet corn germinated on early acreage. Apples in petal fall stage. Strawberries near full bloom. Field corn drilling begun. Oat planting mostly complete. Pasture growth good.

**NEW MEXICO:** Cloudy, cool early week. Scattered light showers mainly in north. From Wednesday

through Friday dry and warm, some windiness. Extensive cloudiness, windiness and turning considerably cooler Saturday and Sunday with widespread light to moderate rain all sections except southeast and southern border. Several inches new snow higher mountains. General clearing late Sunday. Temperatures 3° to 5° subnormal. Weather warming up. Small grains good, grazing ending midweek. Cotton planting progressing rapidly. Hay cutting gaining momentum, aphids still problem. Apples good. Albuquerque Los Lunas area. Cutting lettuce begun Mesilla Valley. Onions good. Cattle and calves good. Ranges mostly good; grass growing well.

**NEW YORK:** Temperatures near normal reached highs in 70's midweek but near or below frost levels at both early and end week. St. Lawrence Valley 4° above normal, other areas within 1° or 2° of normal. Extremes: 26° Watertown, 79° Massena. Rainfall about 0.25 inch subnormal, varied from about 0.10 inch Albany and eastern Long Island to 1.00 inch Utica. Light snow on 5th and 6th melted as it fell. Bulk of rain 3rd. Cool, rainy weather slowed fieldwork. Soil moisture adequate to surplus. Oat planting about 50% complete, early seedlings emerging. Corn 5% planted. Pastures good, growth ahead of last year. Hay making good growth some winter damage appearing. Potato planting Long Island over 90% complete. Upstate potato planting increased. Onion planting nearly complete most areas. Celery transplanting started Wayne County. Pace of cabbage and sweet corn planting picked up. Strawberry blossoms started to appear some Upstate areas. Apples full bloom Hudson Valley while peaches, pears and sweet cherries advanced to petal fall stage. Sweet Cherries and peaches full bloom west. Pears coming into full bloom and tart cherries beginning to bloom. Weather poor for pollination.

**NORTH CAROLINA:** Warming at first with highs near 80 first days of May. Cold weekend, some lows dropping to 30's. Temperatures subnormal. Rain 3rd and 4th mostly 0.50 to 1.00 inch. Third straight week excellent weather for farming activities. Farmers worked 3.8 days in fields. Moisture supplies adequate to surplus. Corn 63% planted, 75% last 2 years. Stands and germination good. Flue-cured tobacco 33% set, 55% last year. Condition plants in fields 70% good, 30% fair. Light hail damage eastern belt. Soybeans 7% in, behind normal. Small grains 85% good to excellent, balance generally fair. Some mildew. Strawberry harvest underway.

**NORTH DAKOTA:** Temperatures 1° to 4° subnormal. Coolest early week. Warmest end week; high near 80° Red River Valley on 5th. Lows in 20's and low 30's through midweek. Lowest 21° at Fargo on 3rd. Precipitation: Near normal northwest to little or none east and south falling on 28th to 30th. Snow, 3 inches Bowbells on 29th. Scattered light showers again 4th to 6th generally 0.10 inch or less except 0.50 inch at midweek. Strong southeast winds 4th caused blowing dust. Seeding small grains progressing rapidly. About 67% hard wheat, 40% durum and 33% oats and barley planted. Early seedlings emerging. Topsoil moisture adequate west, short east.

**OHIO:** Scattered showers statewide 30th to 5th, some thunderstorms night of 2nd. Light snow reported north: East on 4th, some higher elevations reporting less than 1 inch snowfall. Temperatures mild early week turned much colder

on 3rd. Early morning lows in 30's 4th and 5th. Frost many sections on 5th. Temperatures began to moderate 6th. Extremes: 29° Marietta on 5th, 77° Chesapeake on 1st. Precipitation fairly well distributed, ranging from less than 0.20 inch central and southwest, to over 0.50 inch southeast. Fieldwork still slowed; wet, muddy conditions. Little over 2 days favorable fieldwork. Northwest conditions best, more than 5 days suitable fieldwork. Soil moisture 91% surplus, 9% adequate. Plowing for corn and soybeans 45% complete, almost 80% done, in 1972 normal progress 85%. Corn planting 10% finished, mainly north, 5-year average 30%. Less than 5% soybeans planted, about normal. Oat seeding over 45%, last year 75%, usual seeding 90%. Almost 20% potatoes plan planted, normal 50%. Sugar beet acreage 60% seeded, 1972 progress 70%. Winter wheat fair to good.

**OKLAHOMA:** Precipitation: .01 inch southcentral to 1.15 inch northcentral. Temperatures: Near normal northeast to 6° subnormal southeast. Tornado Seminole on 6th. Precipitation most areas weekend. Wheat now 33% headed, 67% or better average--condition good to excellent. Leaf rust appearing three extreme southwest counties. Oats and barley good but well behind normal development. Seedbed preparation active west but eastern soils still too wet. Occasional field cotton and sorghum planted southern counties. First cutting alfalfa near 25% complete. Damage by weevil larva heavy some areas. Ranges making good growth and cattle condition improving.

**OREGON:** Temperatures subnormal statewide. Some lows 20's east and 26° Hood River Valley April 28 did considerable damage to orchards. Precipitation subnormal except 0.41 to 0.83 inch northeast. Locally heavy thundershowers end week in band from northeast Willamette Valley across Cascades to Redmond. Lack of soil moisture acute for hays, grains, range, pastures. Spring planted grains especially short. Warmer weather needed for growth. First cutting hay starting Willamette Valley. Poor curing weather. Fescues, orchard grasses heading out. Fruit set appears good. Raspberries nearing bloom, loganberries, boysens starting bloom. Walnuts showing extensive damage. Vegetable planting, processing, fresh market continues. Early green peas starting bloom, eastern areas need moisture. Cutworms showing up mint fields. Ranges, pastures doing poorly--annual grasses very short. Sheep shearing underway.

**PENNSYLVANIA:** Mild through Thursday, temperatures 5° to 10° above normal; considerably cooler last half as mercury tumbled 15° to 25° accompanied by gusty northwest winds. Temperatures: 2° to 4° subnormal. Extremes 84° south-central Wednesday to 25° north-central Monday morning. Widespread shower activity first half but rainfall only 0.30 inch or less all except few northwestern counties where up to 0.80 inch. A few snow flurries reported Saturday central and northern mountains. Fieldwork slowed by wet weather. Topsoil moisture 55% surplus, remainder adequate. Plowing 60% complete. Oats seeding 60%, corn 10%, potatoes 30%. Winter barley entering boot stage. Seedleaf tobacco beds completed, good to excellent condition. Early hay harvest expected. Processing green peas up, good condition. Apples full bloom.

**PUERTO RICO:** Generally dry islandwide except for some areas northwest and west interior where rains from 1.00 to 2.00 inches. Hail and strong winds north coast and interior on May 1. Rainfall averaged

0.37 inch or 1.22 inch below normal. Highest weekly total 2.39 inches central interior. Highest 24 hour total 2.20 inches western Cordillera. Crop moisture conditions mostly near normal except some parts of southern divisions which were too dry for normal crop development. Temperatures: 80° coast and 74° interior. Extremes: 96°, 57°. Sugarcane recovering recent floods and ratoons developing well. Weather favors progress except in southwest where lack of rain causing drop in yields. Coffee developing well central and flowering good except south and southwest where drought still affecting them. Almost all tobacco harvested and weather favors drying in shed. Some recovery of pastures. Weather favors preparation soil, planting and fertilizing except south and southwest where pasture scarce and suffer from drought. Minor fruit crop suffered some damage due heavy rains and strong winds. Farmers are starting to plant.

**SOUTH CAROLINA:** Rainfall Thursday: 0.10 inch or less south to 0.50 inch or higher in Pee Dee area and mountains. Temperatures 5° to 10° subnormal, scattered frost mountains weekend. Continued favorable weather for planting, cultivating. Warmer temperatures, rain needed for maximum germination, growth. Tobacco stands good--80% transplanted, 91% last year. Cotton stands fair to good--63% planted, 78% last year. Corn stands good to excellent--81% planted, 89% last year. Soybeans 2% planted, 6% last year. Small grains good. Wheat 76% headed, 2% turning color. Oats--74% headed, 2% turning color. Grain hay good, 15% harvested, 20% last year. Pastures good. Peaches fair to good. Peanuts 56% planted, 38% last year. Sorghums 3% planted, 16% last year. Sweetpotatoes 14% planted, 28% last year. Vegetable crops fair to good.

**SOUTH DAKOTA:** Temperatures near to slightly subnormal. Cool, some subfreezing temperatures, except 4th and 5th. Extremes: 82° on 5th, 22° on 2nd. Little or no rain north, over 1.00 inch some parts south and eastcentral. Some light snow northeast and eastcentral. Topsoil moisture adequate statewide. Crop and pasture growth slowed cool weather. Rain hampered fieldwork early week--good progress end week. Spring wheat seeding 95% complete, normal 80%, last year 54%. Oats seeding 93% complete, normal 84%, last year 60%. Barley seeding 92% complete, normal 78% last year 53%. Flax seeding 32% complete, normal 29% last year 3%. Corn planting 6% complete, normal 0; last year 0. Spring plowing 61% complete, normal 55%, last year 42%. Livestock good--calving and lambing near complete. Movement of stock to pasture slow.

**TENNESSEE:** Unusually wet week middle and west. Totals from 0.15 inch east to locally 4.00 inches west. Cool week; 4° to 6° subnormal. Near freezing mountains on 5th. Afternoon temperatures in mid-60's east to mid 70's west. Planting corn and cotton slight progress but fell further behind schedule. Less than 10% of corn, 2% cotton planted, normal 50% and 40% respectively. Considerable cropland under water near Mississippi River. Over 50% wheat, barley and about 33% oats headed which is 1 week behind normal for oats and barley. Due to killing April frosts and cool, wet weather hampered bees in apples, peaches and other fruits. Production will be greatly reduced.

**TEXAS:** Warm, humid air resulted in locally heavy thunderstorms while cool, dry air dominated Thursday and Friday. Gusty winds, hail, and tornadoes accompanied thunderstorms as they moved eastward. Rainfall above normal over central and southeast,

heaviest southeast. Deweyville 7.45 inches. Near freezing temperatures over upper panhandle as cool air dropped readings subnormal over most of Texas Thursday and Friday. Wheat, oats and flax making good to excellent progress--some local fields damaged by hail. Planting cotton, corn, sorghum, rice and peanuts slow progress and behind schedule. Local light to heavy hail damage require replanting most areas. Major crops - percent planted: Cotton 13, last year 37; corn 79, last year 88; sorghum 41, last year 51; peanuts 17, last year 19; rice 52, last year 98. Lower Rio Grande Valley onion volume beginning to decline. Cabbage and carrot harvest continues. Potato digging underway. At Laredo most activity still centered around onion harvest. Honeydew melons good progress. Coastal Bend onion harvest complete on early fields, small acreage onions left for harvest in May. Potato planting underway. Rain needed some areas to size watermelon and cucumbers. Most watermelons good growth but will be late. Winter Garden-San Antonio area onion harvest gaining. Potato digging full swing. Carrots and cabbage harvest continues. Warmer weather encouraged watermelon growth but crop late. East Texas watermelon replanting complete. Some tomatoes still being field set. Central Texas replanted watermelons emerging. Most tomatoes show good growth despite adverse weather. Trans-Pecos onions excellent progress. Early canteloupe fields emerged. High Plains onions and potatoes good growth. Peach harvest getting underway South Texas. Pecan casebearer becoming apparent many pecan trees. Citrus harvest should be complete late May or early June.

**UTAH:** Recurring rain and snow. Accumulated light to moderate except locally heavy northern mountains. Temperatures: Mostly 1° to 7° subnormal. Soil temperatures 4-inch depth: Upper 40's Cache Valley to low 50's Salt Lake City and Richfield and low 70's St. George. Accumulated growing degree days since April 1 continues well below normal, generally 30% to 60%. Fieldwork 4 to 5 days suitable. Light freeze nearly all farming areas. Much progress made planting grains, corn, sugar beets. First crop alfalfa fair to good. Fruit crop prospects continue good to excellent for all six fruits nearly all areas. No freeze damage yet this spring of consequence. Apricots past blooming; cherries, peaches, some pears bloom now; late pears, apples about bloom. Irrigation water supplies and soil moisture good to excellent. Current range feed supplies fair. Calving 80% complete, shearing 70%, lambing 40%. Movement to spring rangelands 45% complete, cattle, 60% sheep.

**VIRGINIA:** Light showers and widely scattered thunderstorms midweek. Total 0.50 inch. Temperatures 3° subnormal, range 1° above to 8° below. Extremes: 84° and 30°. Scattered frost southwest on 4th. Seedbeds, planting, lime and fertilizer application progressed reasonably well. Fieldwork 3 days suitable. Planting behind last year. Topsoil moisture 50% surplus, 50% adequate. Corn 70% planted Tidewater, 40% Piedmont, and 10% remainder. Soybeans 5% planted, peanuts 10%, cotton 25%. Began setting flue-cured tobacco. Cut rye for silage and green chop. Cut a little hay. Alfalfa sprayed for weevils. Pastures excellent, grass tetany subsided. Pastures sprayed for thistle. Sheared sheep. Transplanted tomatoes. Eastern Shore, Irish potato planting completed.

**WASHINGTON:** Western Washington: Temperatures and precipitation subnormal. Livestock on full pasture. Strawberry, raspberry conditions good. Vegetable planting continues. Corn planting active.

Rhubarb harvest near completion. Spinach harvest underway. Frost damage small fruits, berries, early vegetables. Moisture short to adequate. Some irrigating necessary. Eastern Washington: Temperatures 3° to 5° subnormal. Scattered showers end of week. Soil moisture short. Planting potatoes, alfalfa, corn, beans. Cutting, processing asparagus. Alfalfa showing freeze damage some areas. Livestock good. Wheat showing moisture stress shallow soils. Growth also slowed by cool nights. Some weed spraying and fertilizing wheat, other cereals. Working summer fallow continues.

WEST VIRGINIA: Week began cold and wet, lows in upper-20's to low-30's. Showers and cloudiness most week. Temperature into 80's by Tuesday. Cold front Friday brought weekend temperatures into 30's and 40's. Another week delay for most fieldwork. Well drained soil becoming workable end of period. Frost and freeze added further damage to strawberries, cherries, and other fruit. Extent of damage to apples and peaches eastern panhandle undetermined. Pastures doing well, continued reports of grass tetany.

WISCONSIN: Wet and cool until midweek. Rainfall totals 1.00 to 3.00 inches common, locally heavy rain of 4.00 to 5.00 inches westcentral. Up to

6 inches snow northcentral Wednesday. Fair, dry Thursday and Friday, but light showers weekend. Temperatures 3° to 6° subnormal. Brief warmup to mid-70's southeast Tuesday before turning cooler. Heavy precipitation restricted fieldwork. Half of oat acreage remains unsown, mostly in north and east. Still ahead of last year when less than 25% seeded, but behind normal. Spring plowing not 50% done, ahead of last year's 20% but behind usual progress. A little corn planted but much corn ground to be worked yet. Early oats doing well. Pastures, hay fields doing well, could use warmer weather. New seedings spotty due to oat harvesting difficulties in 1972. Winter grains very good. Planting potatoes and vegetables behind schedule. Heavy rains causing erosion, flooding. Soil moisture 90% surplus, 10% adequate.

WYOMING: Temperatures: 3° to 8° subnormal. Extremes: 10° at Bondurant, 76° at Colony. Warmest April 28 and toward end week. Precipitation variable. Only 3 reporting points did not report measurable precipitation. Most fell Sunday through Tuesday. Greatest amounts east and central. Spring wheat 25% planted, oats and sugar beets 25%, barley 35% planted. Planting most crops 4 weeks behind last year due to snow, cold weather and wet ground. Spring calves 80% dropped. Range ewes 40% lambed and 50% sheared.

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





MEAN GROWING DEGREE DAYS (ADJUSTED 50° BASE):  
ACCUMULATED WEEKLY MARCH 1 TO INDICATED DATES

Station	Mar. 8	Mar. 15	Mar. 22	Mar. 29	Apr. 5	Apr. 12	Apr. 19	Apr. 26	May 3
<b>West:</b>									
Phoenix, Ariz.	76	160	252	352	458	579	710	839	974
Fresno, Calif.	50	102	164	232	309	391	481	570	663
Denver, Colo.	13	30	52	83	117	152	199	255	311
Pocatello, Idaho	4	7	15	30	51	77	113	148	188
Glasgow, Mont.	1	2	7	18	35	54	85	117	159
Pendleton, Ore.	8	20	41	66	99	142	187	231	281
<b>North Central:</b>									
Des Moines, Iowa	5	14	23	41	67	94	138	194	259
Minneapolis, Minn.	0	1	4	11	25	40	71	109	162
North Platte, Nebr.	10	24	39	67	100	133	180	236	296
Omaha, Nebr.	8	20	33	58	91	127	178	244	316
Fargo, N. Dak.	0	0	2	8	17	30	54	85	134
Huron, S. Dak.	2	5	12	26	46	70	108	154	210
Green Bay, Wis.	0	1	3	7	17	28	55	85	125
Madison, Wis.	1	3	8	17	33	53	89	132	186
<b>South Central:</b>									
Fort Smith, Ark.	41	87	131	191	269	348	437	551	664
Dodge City, Kans.	20	46	76	121	172	222	286	365	442
Topeka, Kans.	18	42	63	101	148	194	254	337	418
Wichita, Kans.	22	50	77	121	177	231	297	388	474
Shreveport, La.	61	132	203	282	384	488	593	728	866
Columbia, Mo.	18	39	58	93	137	184	245	330	417
St. Louis, Mo.	19	41	60	97	142	190	254	345	436
Oklahoma City, Okla.	35	76	119	174	246	318	400	505	605
Amarillo, Tex.	33	78	123	180	244	308	385	474	560
Corpus Christi, Tex.	95	210	324	445	587	728	878	1049	1229
Fort Worth, Tex.	57	122	191	271	369	470	578	710	838
Midland, Tex.	57	128	200	282	376	473	578	700	822
<b>Midwest:</b>									
Chicago, Ill.	5	10	18	35	36	81	124	177	238
Moline, Ill.	5	10	18	36	61	90	135	192	261
Peoria, Ill.	8	16	25	46	74	105	152	214	284
Indianapolis, Ind.	12	26	39	64	95	128	175	250	324
Louisville, Ky.	22	48	71	108	156	207	272	370	466
Flint, Mich.	2	5	9	19	35	53	87	127	175
Grand Rapids, Mich.	1	5	10	20	37	55	89	131	185
Columbus, Ohio	12	26	38	64	95	129	176	246	320
<b>Northeast:</b>									
Portland, Maine	0	1	1	4	12	24	41	65	94
Albany, N.Y.	1	4	6	16	33	51	84	130	179
Binghamton, N.Y.	1	3	5	14	28	41	66	105	145
Syracuse, N.Y.	2	5	8	19	36	51	83	126	174
Harrisburg, Pa.	8	17	28	52	83	116	163	228	295
Philadelphia, Pa.	8	20	31	57	91	125	175	238	302
Pittsburgh, Pa.	10	21	32	55	82	111	154	217	287
Williamsport, Pa.	4	10	15	33	58	84	126	182	243
Richmond, Va.	29	61	89	137	194	254	327	425	517
<b>Southeast:</b>									
Macon, Ga.	58	127	195	278	375	477	580	715	858
Raleigh, N.C.	39	82	118	174	240	311	389	497	604
Memphis, Tenn.	39	85	127	183	258	337	422	539	659
Nashville, Tenn.	35	74	109	158	222	288	363	474	585

MEAN GROWING DEGREE DAYS (ADJUSTED 50° BASE):  
ACCUMULATED WEEKLY MARCH 1 TO INDICATED DATES

May 10	May 17	May 24	May 31	June 7	June 14	June 21	June 28	July 5	July 12	July 19
1123	1274	1442	1614	1794	1976	2172	2378	2593	2817	3045
767	877	1008	1139	1276	1411	1569	1732	1895	2066	2243
378	447	524	613	709	819	937	1068	1212	1360	1510
247	305	378	456	540	630	734	846	965	1101	1244
209	274	347	429	517	613	716	821	934	1073	1217
345	418	504	592	698	795	913	1033	1159	1303	1460
340	428	525	629	753	897	1046	1201	1369	1535	1705
224	295	374	458	565	691	822	954	1103	1252	1409
366	440	523	617	722	846	977	1115	1271	1424	1580
405	502	607	722	854	1007	1165	1327	1504	1677	1855
186	250	325	404	503	612	724	839	968	1108	1253
272	345	425	514	621	743	870	1001	1150	1305	1462
176	234	302	374	466	573	683	797	923	1050	1185
255	325	406	491	597	719	845	977	1119	1258	1406
794	929	1081	1240	1406	1589	1774	1964	2159	2356	2553
537	634	741	865	997	1154	1318	1487	1667	1847	2026
519	623	741	867	1006	1168	1333	1503	1685	1862	2042
582	691	816	952	1100	1271	1447	1628	1819	2010	2196
1020	1178	1348	1525	1706	1902	2100	2300	2504	2712	2916
519	622	741	864	1003	1168	1330	1501	1681	1857	2039
541	647	770	899	1047	1220	1389	1566	1752	1932	2119
728	849	988	1137	1294	1475	1658	1844	2039	2233	2428
667	770	889	1019	1156	1311	1478	1649	1830	2010	2187
1411	1600	1794	1998	2200	2412	2626	2840	3055	3270	3487
988	1140	1308	1486	1670	1871	2072	2278	2488	2702	2916
964	1110	1263	1431	1603	1788	1978	2171	2364	2558	2754
313	391	481	579	701	843	984	1142	1310	1470	1639
344	429	526	629	755	898	1045	1200	1365	1524	1691
367	454	554	660	788	938	1085	1245	1415	1576	1746
411	499	602	708	834	986	1132	1293	1462	1623	1792
569	677	801	932	1073	1239	1399	1572	1752	1926	2110
239	302	375	455	555	676	795	924	1064	1197	1338
252	321	398	482	588	717	841	976	1121	1259	1408
404	490	593	697	818	964	1104	1260	1424	1581	1749
135	181	237	304	386	470	563	668	787	903	1032
244	313	393	478	586	702	820	963	1110	1248	1402
198	253	320	387	476	580	683	805	938	1058	1197
236	300	376	457	559	677	794	930	1075	1212	1360
377	463	563	667	792	936	1075	1239	1410	1573	1748
384	475	576	681	811	955	1094	1262	1436	1604	1785
364	442	533	625	736	869	994	1140	1295	1438	1595
318	397	485	576	686	814	937	1083	1237	1380	1537
620	733	858	984	1120	1279	1430	1608	1786	1962	2147
999	1149	1314	1484	1656	1842	2029	2225	2421	2616	2814
718	839	976	1113	1255	1420	1579	1757	1936	2113	2298
793	935	1094	1257	1427	1618	1804	1999	2198	2398	2599
705	831	974	1120	1276	1454	1626	1810	1998	2134	2376

MEAN GROWING DEGREE DAYS (ADJUSTED 50° BASE): \*\*  
ACCUMULATED WEEKLY MARCH 1 TO INDICATED DATES

Station	July 26	Aug. 2	Aug. 9	Aug. 16	Aug. 23	Aug. 30	Sept. 6	Sept. 13	Sept. 20
<b>West:</b>									
Phoenix, Ariz.	3274	3499	3721	3943	4161	4373	4582	4792	4986
Fresno, Calif.	2422	2603	2773	2946	3115	3274	3436	3592	3734
Denver, Colo.	1663	1818	1971	2118	2256	2394	2512	2630	2730
Pocatello, Idaho	1389	1535	1677	1815	1943	2062	2172	2283	2372
Glasgow, Mont.	1366	1511	1658	1794	1925	2037	2135	2229	2300
Pendleton, Ore.	1611	1768	1919	2071	2214	2337	2465	2584	2685
<b>North Central:</b>									
Des Moines, Iowa	1880	2057	2228	2384	2535	2688	2822	2942	3044
Minneapolis, Minn.	1572	1732	1889	2030	2167	2303	2418	2519	2600
North Platte, Nebr.	1740	1906	2068	2216	2357	2503	2625	2740	2840
Omaha, Nebr.	2039	2222	2401	2566	2724	2889	3031	3159	3268
Fargo, N. Dak.	1405	1551	1696	1828	1957	2082	2186	2278	2353
Huron, S. Dak.	1623	1783	1942	2088	2229	2373	2491	2598	2687
Green Bay, Wis.	1324	1463	1597	1714	1828	1948	2057	2151	2228
Madison, Wis.	1557	1708	1853	1986	2117	2249	2368	2471	2560
<b>South Central:</b>									
Fort Smith, Ark.	2754	2958	3157	3349	3540	3726	3905	4070	4229
Dodge City, Kans.	2211	2398	2587	2761	2929	3103	3257	3399	3531
Topeka, Kans.	2231	2420	2608	2779	2949	3120	3274	3414	3542
Wichita, Kans.	2392	2590	2788	2971	3148	3328	3493	3645	3784
Shreveport, La.	3124	3333	3542	3747	3951	4150	4345	4529	4709
Columbia, Mo.	2226	2414	2598	2769	2937	3107	3263	3404	3535
St. Louis, Mo.	2313	2507	2696	2872	3046	3220	3381	3527	3661
Oklahoma City, Okla.	2629	2831	3032	3226	3415	3603	3779	3941	4095
Amarillo, Tex.	2368	2552	2736	2911	3080	3250	3407	3553	3690
Corpus Christi, Tex.	3704	3922	4138	4356	4573	4784	4998	5206	5411
Fort Worth, Tex.	3132	3350	3567	3781	3990	4196	4397	4584	4766
Midland, Tex.	2950	3149	3347	3541	3734	3920	4101	4270	4436
<b>Midwest:</b>									
Chicago, Ill.	1814	1989	2158	2316	2473	2631	2778	2905	3023
Moline, Ill.	1863	2034	2198	2350	2499	2652	2787	2904	3014
Peoria, Ill.	1922	2098	2266	2421	2574	2730	2871	2996	3110
Indianapolis, Ind.	1967	2142	2308	2464	2618	2770	2915	3041	3161
Louisville, Ky.	2301	2489	2673	2845	3018	3186	3353	3497	3630
Flint, Mich.	1483	1628	1765	1893	2016	2145	2263	2364	2452
Grand Rapids, Mich.	1560	1712	1858	1993	2125	2260	2387	2494	2590
Columbus, Ohio	1917	2085	2247	2399	2553	2703	2849	2973	3087
<b>Northeast:</b>									
Portland, Maine	1164	1293	1411	1532	1646	1755	1856	1945	2018
Albany, N.Y.	1557	1710	1851	1990	2123	2252	2378	2481	2568
Binghamton, N.Y.	1334	1473	1601	1724	1844	1960	2077	2169	2245
Syracuse, N.Y.	1511	1662	1805	1943	2072	2204	2333	2438	2525
Harrisburg, Pa.	1925	2105	2270	2433	2593	2747	2902	3031	3148
Philadelphia, Pa.	1969	2154	2323	2493	2660	2820	2985	3120	3244
Pittsburgh, Pa.	1756	1917	2068	2214	2356	2497	2635	2751	2856
Williamsport, Pa.	1697	1858	2006	2152	2294	2432	2569	2683	2784
Richmond, Va.	2335	2521	2701	2881	3056	3224	3394	3539	3675
<b>Southeast:</b>									
Macon, Ga.	3014	3214	3415	3612	3808	3997	4185	4363	4532
Raleigh, N.C.	2489	2678	2863	3046	3227	3399	3572	3725	3868
Memphis, Tenn.	2804	3011	3214	3411	3604	3792	3974	4143	4303
Nashville, Tenn.	2573	2770	2962	3145	3330	3508	3683	3842	3990

MEAN GROWING DEGREE DAYS (ADJUSTED 50° BASE):  
ACCUMULATED WEEKLY MARCH 1 TO INDICATED DATES

Sept. 27	Oct. 4	Oct. 11	Oct. 18	Oct. 25	Nov. 1	Nov. 8	Nov. 15	Nov. 22	Nov. 29	Dec. 6
5168	5347	5511	5664	5802	5930	6040	6141	6218	6297	6372
3878	4016	4137	4250	4352	4446	4526	4596	4643	4683	4716
2815	2901	2981	3052	3111	3161	3193	3228	3252	3273	3292
2452	2525	2608	2663	2707	2739	2757	2771	2776	2780	2781
2366	2427	2479	2529	2563	2591	2606	2615	2620	2623	2624
2785	2863	2926	2981	3026	3057	3074	3087	3097	3109	3115
3133	3218	3289	3371	3427	3467	3489	3512	3527	3534	3539
2666	2725	2777	2837	2875	2901	2912	2921	2927	2928	2929
2923	3004	3081	3156	3213	3261	3288	3316	3334	3349	3360
3362	3450	3527	3614	3674	3721	3748	3775	3792	3802	3810
2413	2468	2515	2565	2595	2616	2627	2632	2635	2635	2635
2761	2830	2890	2955	2998	3030	3048	3063	3072	3076	3078
2291	2346	2389	2442	2474	2495	2506	2513	2520	2521	2522
2633	2703	2759	2823	2863	2890	2907	2920	2929	2931	2934
4378	4508	4628	4747	4843	4925	4981	5045	5097	5138	5169
3641	3749	3847	3941	4010	4069	4105	4144	4172	4195	4213
3655	3756	3849	3947	4020	4077	4111	4150	4178	4197	4211
3906	4019	4121	4224	4300	4359	4396	4437	4467	4488	4504
4881	5034	5173	5309	5422	5521	5595	5674	5751	5814	5864
3651	3756	3847	3944	4014	4069	4103	4144	4173	4192	4207
3784	3892	3984	4081	4151	4205	4239	4278	4308	4326	4340
4241	4367	4482	4597	4685	4759	4808	4865	4908	4942	4971
3813	3926	4029	4127	4205	4273	4317	4372	4414	4451	4484
5614	5798	5978	6154	6312	6452	6573	6691	6811	6917	7012
4940	5094	5234	5376	5493	5592	5665	5746	5817	5877	5926
4593	4733	4864	4990	5093	5182	5246	5319	5381	5437	5483
3123	3211	3283	3363	3415	3451	3473	3494	3512	3519	3524
3108	3193	3264	3345	3400	3439	3461	3484	3501	3508	3515
3209	3295	3368	3448	3503	3542	3564	3589	3607	3615	3621
3269	3360	3437	3519	3578	3618	3644	3672	3695	3706	3714
3751	3859	3947	4041	4113	4166	4201	4241	4276	4296	4310
2527	2595	2652	2710	2752	2778	2796	2808	2820	2825	2828
2668	2740	2799	2862	2903	2931	2946	2961	2974	2979	2983
3193	3282	3357	3436	3495	3533	3561	3585	3608	3620	3627
2087	2145	2192	2236	2271	2293	2308	2315	2324	2328	2330
2648	2717	2776	2833	2877	2905	2923	2934	2945	2950	2953
2313	2372	2417	2468	2503	2524	2539	2548	2558	2562	2564
2606	2677	2733	2790	2835	2863	2882	2896	2910	2917	2921
3247	3336	3412	3485	3540	3578	3609	3631	3650	3659	3667
3349	3444	3530	3606	3669	3712	3749	3775	3800	3815	3825
2946	3027	3092	3160	3211	3243	3267	3288	3310	3320	3327
2869	2946	3011	3076	3126	3158	3182	3197	3209	3215	3219
3794	3901	3997	4087	4160	4219	4272	4318	4363	4393	4415
4692	4839	4972	5095	5203	5292	5370	5441	5517	5574	5617
3997	4114	4217	4314	4395	4460	4518	4568	4623	4658	4683
4452	4584	4701	4816	4907	4981	5035	5093	5148	5187	5217
4125	4248	4354	4458	4540	4604	4650	4700	4746	4776	4800

## FIELD WORK CONTINUES TO BE DELAYED

Heavy rainfall early and late in last week continued to fall over the Nation's midsection. From 2.00 to 4.00 inches fell over the Mississippi River basin which has already experienced record breaking flooding. As of Monday, May 7, 13,610,000 acres of land were under water.

Across the Corn Belt farmers were able to get some field work completed on lighter, well drained soils, but the major spring work effort is being delayed by wet soils. The percentage of corn and soybean land planted increased by about 10 points across Iowa, Illinois, Indiana, and Ohio last week. Iowa is now 55% plowed: last week 50%, normal 89%. Illinois is now 45% complete: last week 35%, normal 87%. Indiana is now 30% plowed: last week 20%, normal 70%. Weekend rains will stymie activity temporarily, but as we go to press clear skies are again moving into the area. The next two weeks will be particularly critical to corn growers in this area. If conditions improve sufficiently to permit a large percentage

of the fields to be worked and planted. The prospects for an excellent crop will remain high since soil moisture supplies will be excellent in all areas. Last year 60 to 75 percent of the corn crop was planted after May 15, and with good moisture during the growing season, record yields were produced. If corn growers are delayed much longer they will have to consider shorter-season varieties to avoid frost problems in the fall.

To the south, cotton and rice planting has been delayed. In some areas fields will not drain and dry sufficiently in time for this year's crop. In Arkansas less than 5% of the cotton is planted, and normally 60% is planted by this time. Rice is 15% planted, normally 85%. In Mississippi 10% of the cotton is planted, normally 56%. In Louisiana only 5% is planted, 60% last year. Most cotton is planted in the Delta area by mid-May to allow completion of boll development before cold weather sets in.

## THE 1973 OKLAHOMA WHEAT LEAF RUST FORECAST

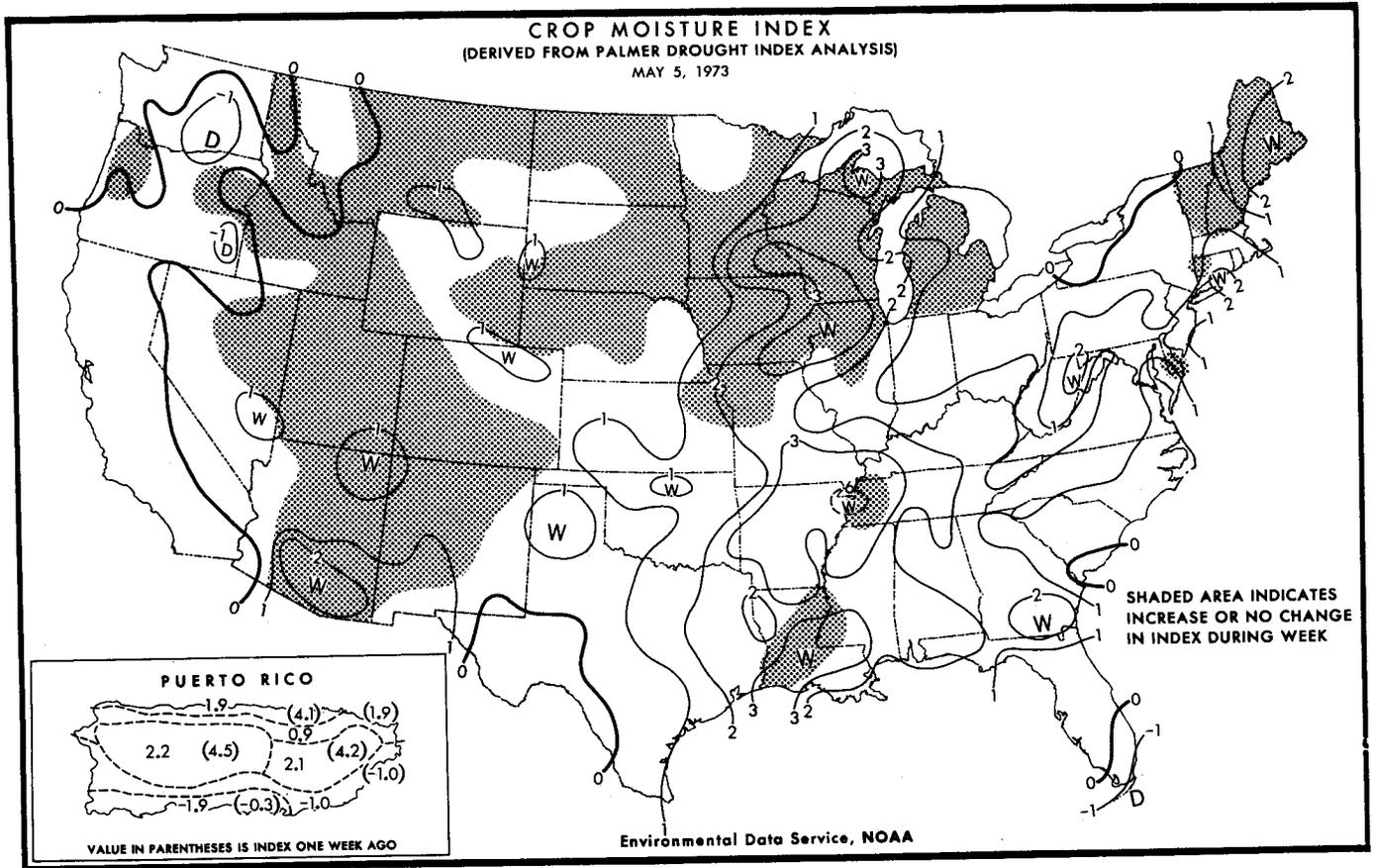
H.C. Young, Jr., S.A. Raymundo, N. Celik  
B. Suzen, and L. Smith  
Oklahoma State University, Stillwater

The latter part of the summer of 1972 was extremely dry, particularly in the eastern and southern parts of the State. As a consequence, little or no wheat planting occurred prior to about the last week in September after some rather general rainfall. Planting continued in relatively moist soils until mid-October. Since that time fields all over the State have been too wet for planting. As a result, wheat not planted by October 15, 1972, was not planted, and it has been estimated that as much as 25 percent of the intended acreage, particularly in north-central Oklahoma, did not get planted.

Excessive moisture and generally mild conditions aided the early development of rust during October and November and numerous more or less isolated fall epidemics developed. Satisfactory wetting periods for continued survival of the disease occurred throughout the winter in most sections of the State except the western Panhandle. Temperatures in this area were limiting.

Another factor entered into the picture this year, however, so far as rust survival is concerned. Septoria blotch, or speckled leaf blotch, which normally occurs in the north-central area of Oklahoma in limited quantities during the winter

months, was favored by the combination of moisture and cool temperatures which prevailed most of the winter. As a result, all of the lower leaves (in some cases all but the youngest 2 leaves) have been destroyed by Septoria in this region of Oklahoma and the rust which had earlier occupied these leaves also has been destroyed. The development of Septoria in the western parts of the State, and especially in the northwest is much less extensive. Consequently, rust has survived well in those areas. Indeed, the level of rust in the northwest quarter of the State at this time is the highest in years and will result in considerable crop loss in that area. Recent observation of disease monitoring plots throughout the State revealed a level of 40 rust pustules per tiller in the northwest area at this time, and crop losses can be expected to approach 15 percent. In the remainder of the western and southwestern areas, rust levels are near normal which is 1 to 2 pustules per tiller and a loss of from 4 to 6 percent can be expected. In the north-central area, where only traces of rust can be found at this time, little or no damage will occur. Septoria, however, may reduce yields, particularly if conditions remain cool and wet.



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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 \*Estimated.