# WEEKLY WEATHER AND CROP BULLETIN

U.S. DEPARTMENT OF COMMERCE
National Weather Service, NOAA

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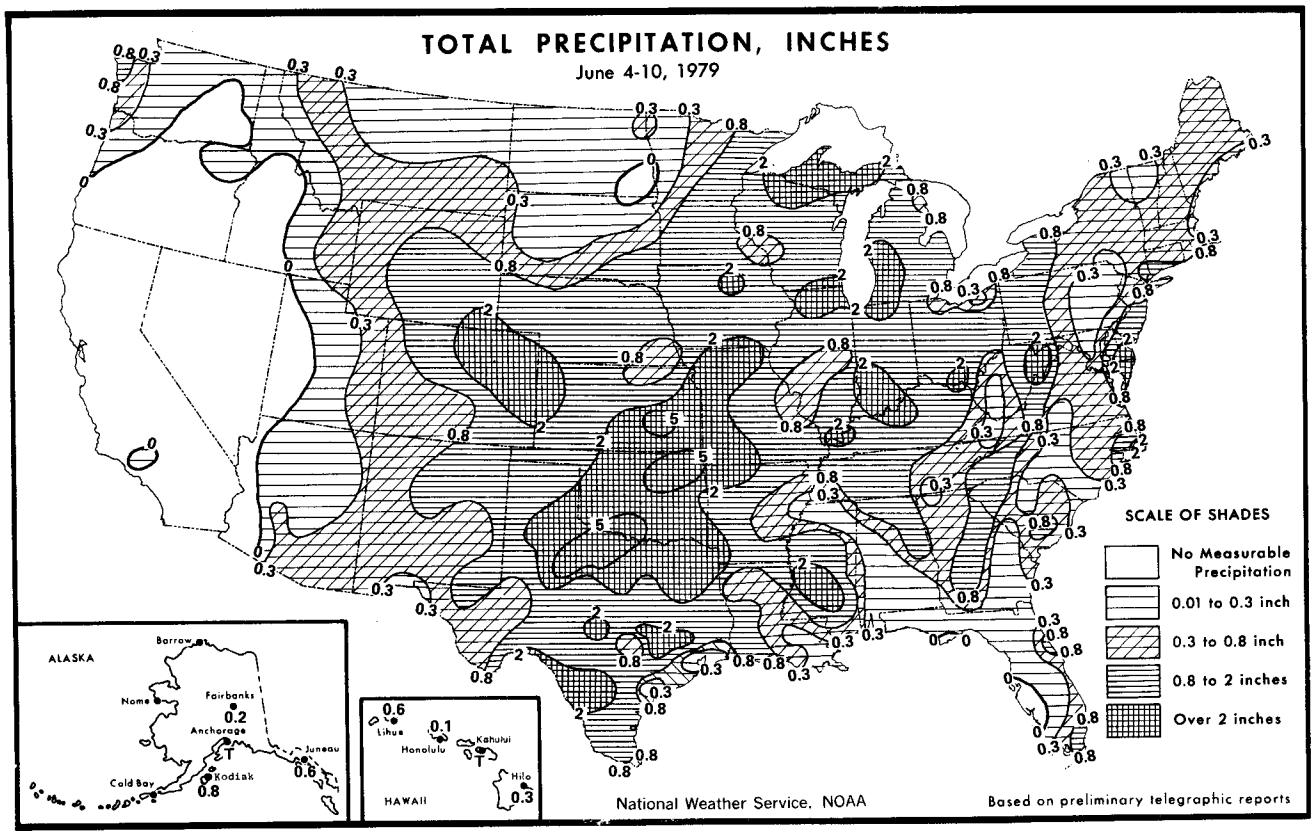



## National Weather Summary

June 4 - 10

HIGHLIGHTS: Thunderstorms persisted through most of the week from Texas northeastward to the Great Lakes and eastward to the Appalachians. Five inches soaked parts of Texas, Oklahoma, and Kansas. Showers dampened the East Coast early in the week.

High temperatures covered California and peaked at record readings by week's end. Many temperatures topped 100°. Snow and unseasonable cold extended over the northern half of the Rockies.

On Monday, rain fell heavily over several sections of the Nation. Along the Atlantic Coast, points in eastern North Carolina reported 1.5 to 2 inches of rain; Salisbury, eastern Maryland, scored 2.6 inches.

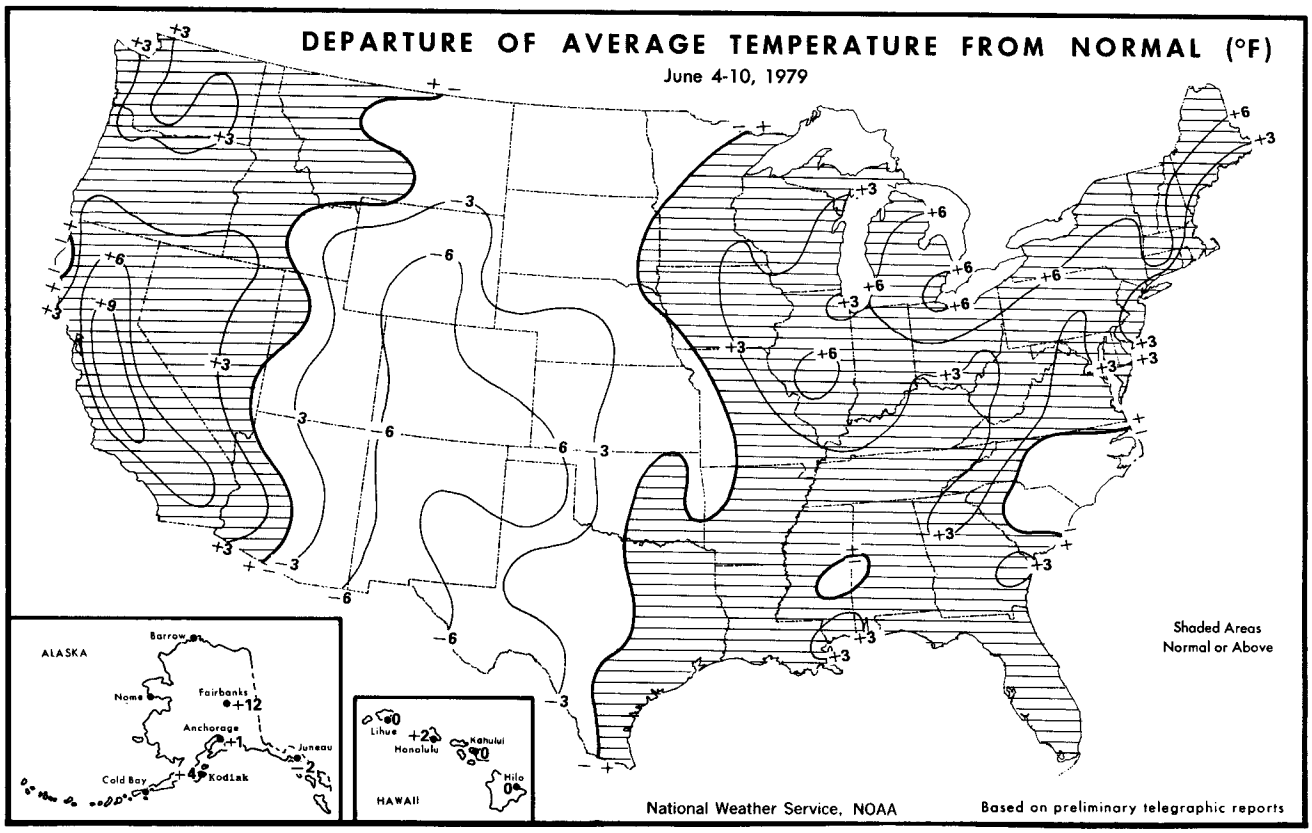
Unsettled weather covered the upper half of the Mississippi Valley. Kansas City, Mo., weathered high winds and several inches of rain. Large hail pelted portions of Iowa, Missouri, and Kansas, and a tornado touched down in eastern Iowa.

Rain clouded an area from Arizona to Louisiana. While one inch fell outside Phoenix, some stations along West Texas's Rio Grande accumulated several inches---local flooding followed.

Record-tying high temperatures showed 87° at Alpena, northeastern Michigan, and Miami Beach's [illegible].

Heavy downpours inundated portions of Texas [illegible] Tuesday; two to 6 inches fell in parts of southern Texas. In northern Texas, Wichita Falls was awash in more than 5 inches of rain, and the Fort Worth vicinity noted 4 inches. A half-foot of rain doused an area northwest of Abilene toward the Panhandle, and a twister was sighted northwest of Lubbock.

Other areas of heavy rain included 2.5 inches outside Corpus Christi, eastern Texas, 3 inches at




Jackson, Miss., and 4 inches outside Wichita, southern Kansas.

Light showers dotted the Northeast and Pacific Northwest.

Severe weather persisted in Texas on Wednesday, when several inches of rain drenched parts of southeastern and southwestern Texas triggering flooding. Tornadoes touched down in the northern sections of the State.

Heavy rains also hit other States in the Plains and South. McAlester, southeastern Oklahoma, measured 2.3 inches; two inches fell outside Shreveport, northwestern Louisiana; and a bit more than an inch dampened Muscle Shoals, northwestern Alabama.

In other regions, Dayton, western Ohio, reported one and a quarter inches, and Duluth, eastern Minnesota, got a half-inch.

The heat in Alpena, Mich., gave way to a record-tying low of 37°. By contrast, Las Vegas reached a record high of 108°, and Minneapolis scored a record 95°.

On Thursday, thunderstorms ranged from the Great Plains to the Ohio Valley. McAlester, Okla., notched another inch and three-quarters of rain; Monett, southwestern Missouri, tallied two and one-half inches; Des Moines collected 1.2 inches; and Cincinnati totaled an inch.

In east central Kansas, Harris posted 5 inches, and Waverly got more than 3 inches. Hail pelted parts of New Mexico, Kansas, and Oklahoma.

Temperatures soared on the West Coast; San Francisco called in a record high 83°.

Storms continued to drench the country's midlands on Friday. Areas of heavy rain included Wichita's 2.6 inches, Tulsa's 1.4 inches, and about 1.5 inches at Chicago. Five to 6 inches swept over sections of Kansas; the Walnut River in the south central part of the State rose to record flood levels. Three inches set off localized flooding in south central Indiana.

Meantime, snow whitened the northern Rockies; 9 inches gathered at Leadville, central Colorado.

Tornadoes were sighted at several Texas points.

On Saturday, snow persisted in the Rockies, where Leadville collected another 3 inches.

Heavy rains stretched from the Plains through the Great Lakes. Omaha got 1.6 inches; Tulsa notched more than 2 inches; and Lubbock, northern Texas, noted an inch. Tornadoes appeared in Illinois and Wisconsin, and additional rain aggravated flooding in southern Indiana.

The chill held over the Rockies---Sheridan, north central Wyoming, dipped to a record 34°. To the east, Buffalo, N.Y., sweltered at a record high 90°.

Severe rainstorms rolled over parts of the Appalachians, Great Lakes, and Texas on Sunday. Lower Michigan weathered high winds and rain, while thunderstorms cropped up over western Virginia---Roanoke collected more than an inch. In West Texas, heavy rains near Del Rio caused flooding. In the South, Biloxi, southern Mississippi, received nearly an inch and a half.

Cold air moved out of the Rockies into the Plains. Records included 40° at Pueblo, central Colorado, 38° at North Platte, central Nebraska, 45° at Concordia, northern Kansas, and a record-equaling 28° at Alamosa, south central Colorado.

The Southwest reported a sizable difference; record heat baked the area, especially southern California. San Diego, at 101°, topped its 1897 record by four, and for only the 15th time since 1872, the mercury passed the century mark. Los Angeles hit 102°, which broke the 1918 record by 9 degrees.

## National Agricultural Summary

June 4 - 10

HIGHLIGHTS: Rains from Texas to the Great Lakes and eastward through the Corn Belt provided adequate soil moisture for crop growth and development. South central rains hampered wheat harvest and some crop planting activities. Most areas of the Nation had 4 to 6 days available for fieldwork; however, most of the South had only 3 to 4 days suitable for planting and winter wheat harvest. Soil moisture rated adequate to surplus throughout the south central and south Atlantic States. Elsewhere, soil moisture rated short to adequate. Winter wheat generally rated good with harvest progressing slowly in the South. Coloring became evident as far north as Kansas and the Corn Belt. Corn rated good with most of the crop emerged to good stands. Above-normal temperatures provided good germination in extreme northern areas. Soybean planting advanced to 76%, ahead of the 71% last year and only one point below the average; planting continued to lag in the Delta States. Cotton generally rated fair to good, although insects and diseases presented problems because of the wet conditions. Grain sorghum seeding reached 75% equaling the average and 3 points ahead of last year. Rice seeding reached 96% compared with last year and the average of 100%. Only Arkansas had significant acreage to seed. Pastures rated good or better throughout most of the Nation, although drying conditions began taking their toll in the West. Hay crops also grew very well, but in many areas, rains curtailed cuttings and lowered quality of curing hay. Apples bloomed in extreme northern areas. Peaches reached good size thanks to more than adequate moisture across the South. Vegetable planting slowed in northern areas because of rainy weather late in the week and wet soils. Fuel supplies remained virtually unchanged from the past week. Reporters rated LP gas at 90% adequate. Diesel fuel supplies rated 31% tight and 66% adequate. Gasoline supplies scored 22% tight and 76% adequate.

SMALL GRAINS: Winter wheat harvest advanced across the South and reached as far north as Tennessee and Virginia. Rains and high winds lodged some fields. Heading advanced into South Dakota, while coloring was reported in Kansas. Subnormal temperatures and rain delayed maturity of the Texas winter wheat crop. Some lodging was reported in Texas with a few fields apparently a total loss. Oklahoma harvest began early in the week but was short-lived because of weekend rains. Pacific Northwest growers reported dry conditions stressed some of the winter wheat crop.

Spring wheat seeding advanced to 95%, one point less than last year but equal to the average. Only Minnesota and North Dakota had some acreage to seed.

CORN: Corn planting was virtually complete and ranged from 91% in Pennsylvania to 95% in Wisconsin, 97% in Minnesota, 96% in Missouri and 98% in Michigan; most other States completed planting. Growth ranged from 4 inches in South Dakota to 7 inches in Illinois and Indiana. This generally was up to 3 inches more than last year, but as much as 4 inches less than the average. Wet soils yellowed some Ohio stands. In the South, silking ranged up to 26% in Alabama.

SOYBEANS: Soybean planting in the Nation reached 76%, 5 points ahead of last year but one point less than average. In the Southeast, seeding reached 74% equaling last year and the average. In the eastern north central States, growers seeded 30% of the crop during the week and reached 92%, well ahead of last year's 71% and the 81% average. In the western north central States, growers seeded almost 40% of the crop in one week to advance to 86% surpassing last year's 74% and the 83% average. Rains in the south central States delayed progress, although growers were able to seed almost 20% of the crop in one week. Seeding reached 50% lagging last year's 66% and the 67% average. Most States proceeded on schedule except Arkansas at 26% and Mississippi and Tennessee at 47%. Arkansas growers lagged last year by 36 points. In the Corn Belt, soybean emergence ranged from 55% in Nebraska to 75% in Indiana. Kentucky reported growers switching to short-season varieties.

COTTON: Cotton seeding reached 90% in the Nation compared with 89% last year and the 95% average. The only States reporting some acreage remaining to seed were Missouri at 94% complete, Oklahoma at 60%, and Texas at 82%. Cotton generally rated only fair to good with some poor stands reported in Arkansas. Scouting activity began as insect populations increased. Squaring was reported at 2% in Mississippi, Alabama at 4%, Texas at 13%, Georgia at 55%, and California at 8%. Rains in southern Texas caused some stands to shed squares and bolls. The New Mexico crop was 2 to 3 weeks late.

OTHER CROPS: Grain sorghum seeding advanced to 75% compared with 72% last year and the 75% average. Stands rated fair to mostly good with as much as 60% of the crop emerged in Nebraska. Greenbugs infested some of the Oklahoma stands. In Texas, heading reached 32%, and 11% of the crop showed color; rains slowed development.

Rice seeding advanced to 96% compared with 100% last year and average. Most of the crop was emerged. Arkansas growers applied the first flood. Texas rice reached 1% headed.

FRUITS & NUTS: Deciduous fruit bloom continued in extreme northern areas as apples bloomed in Wisconsin. Growers in northern production areas hand- and chemically-thinned fruit. Peach harvest advanced to 34% in Georgia, 5% in North Carolina, and 6% in South Carolina. Rains helped size peaches. California growers harvested table grapes, plums, freestone peaches, and nectarines. Some California almond trees sustained damage from a heavy set and high winds. Filberts rated good in Oregon. Pecans generally rated good and had a good set.

Florida citrus groves rated excellent with generally adequate moisture, although some groves were irrigated. New crop fruit made excellent progress, while old crop Valencias held well. California citrus harvests were seasonally active.

VEGETABLES: Low temperatures and rainy weather slowed planting and growth of vegetable crops in northern areas. Planting of sweet corn and peas moved actively where conditions permitted. Asparagus harvest advanced to 75% in Michigan and was active in the Pacific Coast States. Florida vegetable shipments declined 8% from the previous week as many crop harvests declined seasonally. Eggplant supplies increased considerably along with more modest increases of sweet corn, okra, and water-

(continued on page 19)

## Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., June 10, 1979

| States and Stations | Temperature °F Average | Temperature °F Departure | Precipitation Inches Total | Precipitation Inches Departure |
|---|---|---|---|---|
| ALA.Birmingham | 77 | + 1 | .4 | - .4 |
| Mobile | 82 | + 3 | .2 | - 1.0 |
| Montgomery | 78 | 0 | T | - .8 |
| ALASKA.Anchorage | 54 | + 1 | T | - .2 |
| Barrow | -- | -- | -- | -- |
| Fairbanks | 69 | +12 | .2 | - .1 |
| Juneau | 50 | - 2 | .6 | 0 |
| Kodiak | 52 | + 4 | .8 | - .2 |
| Nome | -- | -- | -- | -- |
| ARIZ.Flagstaff | 55 | - 1 | .1 | 0 |
| Phoenix | 85 | + 3 | T | 0 |
| Tucson | 76 | - 4 | .4 | + .4 |
| Winslow | 66 | - 3 | T | 0 |
| Yuma | 86 | + 3 | 0 | 0 |
| ARK.Fort Smith | 75 | - 1 | 1.1 | + .1 |
| Little Rock | 76 | 0 | .5 | - .4 |
| CALIF.Bakersfield | 85 | +10 | 0 | 0 |
| Eureka | 52 | - 3 | 0 | - .2 |
| Fresno | 81 | + 9 | 0 | 0 |
| Los Angeles | 70 | + 3 | 0 | 0 |
| Red Bluff | 81 | + 8 | 0 | - .1 |
| San Diego | 69 | + 4 | 0 | 0 |
| San Francisco | 66 | + 5 | 0 | - .1 |
| Stockton | 80 | +10 | 0 | 0 |
| COLO.Denver | 58 | - 6 | 2.3 | + 1.8 |
| Grand Junction | 64 | - 5 | .5 | + .4 |
| Pueblo | 62 | - 6 | .8 | + .5 |
| CONN.Bridgeport | 68 | + 3 | .9 | + .3 |
| Hartford | 72 | + 6 | .5 | - .3 |
| D.C.Washington | 76 | + 3 | .2 | - .6 |
| FLA.Apalachicola | 79 | 0 | 0 | - 1.0 |
| Daytona Beach | 80 | + 1 | 1.0 | - .4 |
| Ft. Myers | 82 | + 2 | 0 | - 1.9 |
| Jacksonville | 78 | 0 | .1 | - 1.2 |
| Key West | 84 | + 1 | .6 | - .4 |
| Lakeland | -- | -- | -- | -- |
| Miami | 82 | + 2 | 1.0 | - 1.1 |
| Orlando | 80 | + 1 | .1 | - 1.3 |
| Tallahassee | 79 | 0 | T | - 1.3 |
| Tampa | 81 | + 1 | T | - 1.3 |
| W.Palm Beach | 81 | + 1 | .6 | - 1.3 |
| GA.Atlanta | 77 | + 3 | .5 | - .3 |
| Augusta | 77 | 0 | .1 | - .7 |
| Macon | 79 | + 1 | 1.2 | + .4 |
| Savannah | 81 | + 3 | .5 | - .7 |
| HAWAII.Hilo | 74 | 0 | .3 | - 1.3 |
| Honolulu | 80 | + 2 | .1 | 0 |
| Kahului | 77 | 0 | T | - .1 |
| Lihue | 77 | 0 | .6 | + .2 |
| IDAHO.Boise | 64 | + 2 | T | - .3 |
| Lewiston | 65 | + 2 | T | - .5 |
| Pocatello | 56 | - 3 | .4 | 0 |
| ILL.Cairo | -- | -- | -- | -- |
| Chicago | 70 | + 2 | 1.4 | + .5 |
| Moline | 72 | + 3 | 1.6 | + .6 |
| Peoria | 73 | + 4 | 1.1 | + .2 |
| Rockford | 70 | + 3 | 2.4 | + 1.4 |
| Springfield | 77 | + 6 | .7 | - .2 |
| IND.Evansville | 77 | + 4 | 1.6 | + .8 |
| Ft. Wayne | 75 | + 7 | 1.0 | + .1 |
| Indianapolis | 74 | + 4 | 1.2 | + .2 |
| South Bend | 74 | + 8 | 2.0 | + 1.2 |
| IOWA.Burlington | 73 | + 4 | 1.1 | 0 |
| Des Moines | 70 | + 2 | 1.8 | + .6 |
| Dubuque | 68 | + 3 | .7 | - .6 |
| Sioux City | 68 | 0 | 1.3 | + .2 |
| KANS.Concordia | 68 | - 2 | .4 | - .8 |
| Dodge City | 67 | - 4 | .9 | + .1 |
| Goodland | 63 | - 4 | 2.2 | + 1.5 |
| Topeka | 70 | - 1 | 1.9 | + .5 |
| Wichita | 72 | - 2 | 3.4 | + 2.4 |
| KY.Lexington | 72 | + 1 | 1.2 | + .2 |
| Louisville | 75 | + 4 | 2.5 | + 1.5 |
| LA.Baton Rouge | 81 | + 2 | T | - .8 |
| Lake Charles | 81 | + 1 | 1.6 | + .5 |
| New Orleans | 82 | + 3 | .2 | - .8 |
| Shreveport | 79 | 0 | .6 | - .3 |
| MAINE.Caribou | 63 | + 6 | .6 | - .2 |
| Portland | 62 | + 2 | T | - .8 |
| MD.Baltimore | 76 | + 6 | .3 | - .5 |
| MASS.Boston | 68 | + 2 | .2 | - .6 |
| Chatham | 60 | -- | 1.3 | -- |
| MICH.Alpena | 64 | + 5 | .7 | 0 |
| Detroit | 71 | + 5 | 1.2 | + .4 |
| Flint | 71 | + 7 | .8 | 0 |
| Grand Rapids | 72 | + 7 | 2.1 | + 1.3 |
| Houghton Lake | 66 | + 5 | 1.3 | + .5 |
| Lansing | 72 | + 7 | 1.2 | + .4 |
| Marquette | 58 | + 2 | 2.2 | + 1.2 |
| Muskegon | 67 | + 4 | .5 | - .1 |
| S. Ste. Marie | 58 | + 1 | 1.8 | + 1.0 |
| MINN.Duluth | 58 | + 1 | 1.6 | + .6 |
| Internatl Falls | 57 | - 1 | .6 | - .3 |
| Minneapolis | 67 | + 2 | 1.4 | + .5 |
| Rochester | 67 | + 3 | .4 | - .7 |
| St. Cloud | 63 | 0 | 1.5 | + .4 |
| MISS.Jackson | 79 | + 1 | 3.6 | + 2.8 |
| Meridian | 77 | - 1 | .6 | - .2 |
| MO.Columbia | 73 | + 2 | 1.3 | + .2 |
| Kansas City | 70 | - 2 | 4.2 | + 2.9 |
| St. Louis | 78 | + 5 | .3 | - .7 |
| Springfield | 71 | - 1 | 2.9 | + 1.8 |
| MONT.Billings | 60 | 0 | .7 | 0 |
| Glasgow | 57 | - 2 | .1 | - .5 |
| Great Falls | 57 | - 1 | .1 | - .7 |
| Havre | 62 | + 2 | .1 | - .5 |
| Helena | 57 | 0 | .5 | - .1 |
| Kalispell | 56 | + 1 | .5 | - .1 |
| Miles City | 60 | - 2 | .6 | - .2 |
| Missoula | 57 | 0 | .2 | - .3 |
| NEBR.Grand Island | 65 | - 3 | 1.3 | + .2 |
| Lincoln | 69 | - 1 | .7 | - .5 |
| Norfolk | 67 | - 1 | 1.2 | 0 |
| N.Platte | 63 | - 3 | 1.8 | + .9 |
| Omaha | 67 | - 1 | 1.7 | + .5 |
| Valentine | 62 | - 2 | .3 | - .6 |
| NEV.Ely | 56 | + 1 | 0 | - .2 |
| Las Vegas | 83 | + 3 | 0 | 0 |
| Reno | 64 | + 5 | 0 | - .1 |
| Winnemucca | 64 | + 5 | 0 | - .3 |
| N.H.Concord | 65 | + 3 | .5 | - .3 |
| N.J.Atlantic City | 70 | + 2 | 1.1 | + .3 |
| Trenton | 71 | + 2 | 1.0 | + .3 |
| N.MEX.Albuquerque | 67 | - 6 | .9 | + .8 |
| Roswell | 71 | - 4 | .5 | + .2 |
| N.Y.Albany | 70 | + 5 | .5 | - .2 |
| Binghamton | 67 | + 4 | T | - .8 |
| Buffalo | 71 | + 8 | 1.4 | + .9 |
| New York | 70 | + 1 | .4 | - .3 |
| Rochester | 72 | + 7 | .8 | + .2 |
| Syracuse | 71 | + 6 | .4 | - .3 |
| N.C.Asheville | 72 | + 3 | 1.1 | + .2 |
| Charlotte | 74 | 0 | .2 | - .6 |
| Greensboro | 72 | - 1 | .1 | - .8 |
| Hatteras | 72 | - 1 | 2.2 | + 1.2 |
| Raleigh | 71 | - 2 | .4 | - .4 |
| Wilmington | 75 | - 1 | T | - 1.1 |
| N.DAK.Bismarck | 59 | - 2 | .1 | - .7 |
| Fargo | 61 | - 1 | 0 | - .7 |
| Williston | 58 | - 2 | T | - .7 |
| OHIO.Akron-Canton | 72 | + 6 | 1.0 | + .2 |
| Cincinnati | 72 | + 2 | 1.5 | + .7 |
| Cleveland | 72 | + 6 | .2 | - .6 |
| Columbus | 74 | + 6 | 1.4 | + .5 |
| Dayton | 74 | + 5 | 1.9 | + 1.0 |
| Toledo | 72 | + 5 | .6 | - .2 |
| Youngstown | 71 | + 6 | 1.0 | + .2 |
| OKLA.Okla. City | 73 | - 2 | 3.5 | + 2.4 |
| Tulsa | 77 | + 2 | 5.1 | + 3.9 |
| OREG.Astoria | 56 | + 1 | .3 | - .3 |
| Burns | 57 | + 1 | 0 | - .3 |
| Medford | 66 | + 4 | 0 | - .3 |
| Pendleton | 66 | + 3 | .1 | - .2 |
| Portland | 64 | + 4 | .1 | - .3 |
| Salem | 61 | + 1 | T | - .4 |
| PA.Allentown | 72 | + 5 | .1 | - .7 |
| Erie | 69 | + 7 | 1.7 | + .9 |
| Harrisburg | 72 | + 2 | .1 | - .6 |
| Philadelphia | 72 | + 2 | 1.0 | + .2 |
| Pittsburgh | 72 | + 5 | 1.1 | + .3 |
| Scranton | 71 | + 5 | .1 | - .7 |
| R.I. Providence | 66 | + 2 | .7 | 0 |
| S.C. Charleston | 77 | 0 | .1 | - 1.2 |
| Columbia | 75 | - 2 | .3 | - .5 |
| Greenville | 77 | + 2 | 1.8 | + .9 |
| S.D. Aberdeen | 61 | - 2 | T | - .8 |
| Huron | 64 | - 1 | .4 | - .5 |
| Rapid City | 60 | - 2 | .3 | - .6 |
| Sioux Falls | 65 | 0 | 1.3 | + .3 |
| TENN.Chattanooga | 75 | + 1 | .1 | - .7 |
| Knoxville | 75 | + 1 | .5 | - .3 |
| Memphis | 79 | + 2 | .1 | - .7 |
| Nashville | 75 | 0 | .9 | + .1 |
| TEX.Abilene | 77 | - 2 | .9 | + .2 |
| Amarillo | 65 | - 8 | 1.5 | + .7 |
| Austin | 79 | - 1 | .5 | - .3 |
| Beaumont | 81 | + 1 | .2 | - .9 |
| Brownsville | 83 | + 1 | .5 | - .2 |
| Corpus Christi | 83 | + 2 | 2.0 | + 1.3 |
| Del Rio | 78 | - 5 | 2.6 | + 2.1 |
| El Paso | 72 | - 7 | T | - .1 |
| Fort Worth | 81 | + 2 | .6 | - .2 |
| Galveston | 81 | + 1 | .4 | - .5 |
| Houston | 81 | + 1 | .2 | - .9 |
| Lubbock | 72 | - 3 | 1.9 | + 1.2 |
| Midland | 76 | - 2 | .7 | + .3 |
| San Angelo | 77 | - 3 | .9 | + .4 |
| San Antonio | 81 | 0 | 1.6 | + .9 |
| Victoria | 81 | 0 | T | - .8 |
| Waco | 79 | - 1 | .8 | 0 |
| Wichita Falls | 76 | - 3 | 5.8 | + 4.9 |
| UTAH.Blanding | 58 | - 5 | .6 | + .5 |
| Salt Lake City | 63 | 0 | T | - .4 |
| VT.Burlington | 70 | + 7 | .2 | - .6 |
| VA.Lynchburg | 73 | + 2 | .2 | - .6 |
| Norfolk | 74 | + 1 | .6 | - .2 |
| Richmond | 74 | + 2 | .6 | - .1 |
| Roanoke | 74 | + 4 | 1.2 | + .4 |
| WASH.Colville | 62 | + 3 | 0 | - .4 |
| Omak | 64 | + 2 | T | - .3 |
| Quillayute | 56 | + 2 | 1.0 | + .2 |
| Seattle-Tacoma | 62 | + 4 | .1 | - .3 |
| Spokane | 60 | + 1 | .1 | - .3 |
| Walla Walla | 66 | + 1 | T | - .3 |
| Yakima | 64 | + 1 | T | - .2 |
| W.VA.Beckley | 69 | + 4 | .5 | - .5 |
| Charleston | 72 | + 2 | .4 | - .3 |
| Huntington | 73 | + 2 | .5 | - .3 |
| Parkersburg | 71 | + 1 | .3 | - .6 |
| WISC.Green Bay | 65 | + 3 | 1.2 | + .4 |
| La Crosse | 66 | 0 | .6 | - .5 |
| Madison | 67 | + 3 | .8 | - .2 |
| Milwaukee | 65 | + 3 | 1.5 | + .7 |
| WYO.Casper | 53 | - 6 | 1.1 | + .7 |
| Cheyenne | 55 | - 4 | 2.1 | + 1.5 |
| Lander | 54 | - 4 | .8 | + .3 |
| Sheridan | 55 | - 3 | .6 | - .2 |
| P.R.San Juan | 83 | + 3 | .9 | - .5 |

Based on 1941-70 normals

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## State Summaries of Weather and Agriculture

These summaries provide brief descriptions of crop and weather conditions important on a national scale. More detailed data are available in Weather and Crop Bulletins published each Monday by ESCS State offices in cooperation with the National Weather Service.

ALABAMA: Warm and humid; temperatures 2° above normal. Showers on 5th, 6th, 10th. Little or no rain south, up to 2.00 in. north.

Fieldwork: 4.2 days suitable. Soil moisture generally adequate; surplus northeast, short southeast. Soybeans 77% planted, 72% 1978, 74% average. Sorghum 61% planted, 57% 1978. Corn 26% silked, 20% 1978. Cotton 4% squaring, 4% 1978. Peanuts 3% pegging. Wheat 37% harvested, 28% 1978, 48% average. About 25% 1st cutting hay in. Pastures, peanuts good condition, remaining crops fair to good. Insects still problem in corn.

ALASKA: Temperatures warmer than normal. Rainfall normal; form of showers. Seasonal rainfall below normal.

Intermittent rainfall and sunshine allowed moderate crop growth. Condition of small grain average or above all areas of railbelt. Most early seeded fields emerged. Soil moisture short to adequate. Farmers applying herbicides, pesticides, and repairing machines. Cutworms causing considerable damage on vegetable acreages.

ARIZONA: Scattered showers, thundershowers twice eastern two-thirds. Rainfall mostly 0.50 in. Sunny skies, warm, drier air by weekend. Temperatures mostly 1 to 9° below normal except southwest, several degrees above normal.

Cotton very good progress, later plantings emerging, earlier plantings good growth. Sorghum, corn, safflower very good growth. Harvest small grains full swing, making good progress. Sugarbeet harvest making good progress, good quality reported. Third cutting alfalfa nearing completion central, western areas. Second cutting about 40 to 50% complete southeast. Lettuce harvest active Cochise County. Cantaloup harvest gaining momentum Yuma area. Watermelon harvest underway Salt River Valley, expected to begin next week Yuma area. Western grape harvest began last week, central areas later this week. Diesel fuel mostly tight southern, eastern areas. Gasoline supplies tight central, southern, eastern areas. LP gas supplies mostly adequate statewide. Range conditions very poor west, excellent northern, eastern areas. Cattle, calves higher summer ranges eastern portions good to excellent condition. Recent rainfall added soil moisture, stock water.

ARKANSAS: Temperature and rainfall near normal. Highest normal 78°; lowest 72°. Highest mean 79°; lowest 72°. Highest temperature 95°; lowest 53°. Most rainfall 2.74 in.; least 0.09 in.

Fieldwork delayed by rainfall. Soil moisture surplus. Fieldwork: 2.5 days suitable. Gasoline adequate, diesel tight northeast. Soybean condition fair; planting 26%, 62% 1978, 59% average. Cotton condition fair to poor, growth slow, wet fields prevented cultivation; planting virtually complete, same as 1978, and average. Acceptable stands 81%. Rice condition improving fair to good; first flooding reported; seeding 88% complete, 98% 1978, 97% average. Corn and sorghum fair to good. Corn planting 93%, 82% 1978, average 87%. Sorghum 70% planted, 88% 1978, average 83%. Wheat combining begun south; 3% harvested, 1978 55% wheat. Tomato harvest will start June 15. Peaches ripening. Dixie Reds ready latter part week. Squash harvest June 11. Pastures good condition. Haying hampered by rain. Cattle good condition.

CALIFORNIA: Thermal trough over interior combined with Pacific high and brought well over normal temperatures to most of State except coastal area and southern deserts where temperatures averaged near normal. Greatest departures of 10° or more above normal in San Joaquin Valley and several mountain stations. No precipitation.

Harvesting grains underway San Joaquin, Sacramento, Imperial Valley with heavy stands. Winter wheat 97% turning color stage. Cotton rapid growth. Irrigating, weeding, cultivating continues. Cotton 8% squaring stage. Rice 99% planted, 97% last year; 88% emerged. Baby limas 95% planted San Joaquin Valley. Gusting wind damage late in week. Too early to completely assess. Damage appears limited. Apricot harvest increasing. Cherry harvest near completion. High winds and temperatures hurt quality of remaining San Joaquin crop. Table grape harvest Coachella Valley increasing. San Joaquin Valley harvest of plums, freestone peaches, nectarines gaining momentum. Citrus harvests seasonally active. Some almond tree damage from heavy set and high winds. Lack of trucks causing limited movement some districts. Artichokes, asparagus declining seasonally. Broccoli, cauliflower good supply central coast. Cantaloup, watermelon harvest increasing desert, but still light. Lettuce reamins heavy central coast. Onions decreasing desert, increasing Kern and Stockton. Spring potatoes near peak Kern. Strawberries good volume central coast. Market tomato harvest active desert, very light other areas. Processing tomatoes progressing well, some wind burn Sacramento Valley. Hot winds increasing fire danger considerably. Numerous grass fires throughout State. Sheep grazing barley stubble. Some movement livestock summer pastures continues. Some areas continue to experience tight supplies diesel, gasoline. LP gas adequate, some areas reporting surplus.

COLORADO: Precipitation statewide. Heavier amounts received along front range. Precipitation ranged from 2.00 to 3.00 in. Temperatures 1 to 2° below normal east; 1 to 2° above normal west.

Winter wheat condition good; headed 75%. Early spring crops generally good condition but progress behind schedule. Corn condition good; 98% seeded, 100% 1978, 100% average. Sorghum 72% planted, 91% 1978, 79% average. Sugarbeets 33% thinned, 57% 1978, 58% average. First cutting alfalfa 21% complete. Range and pasture condition good to very good. Fieldwork: 4 days suitable. Gasoline and diesel fuel mostly tight to adequate. LP gas supplies adequate.

FLORIDA: Relatively weak frontal system moved into extreme north becoming stationary on the 4th. Front produced no widespread rainfall and moved northward on 7th. Principle synoptic pattern was area of high pressure. Afternoon, evening showers, thundershowers remained widely scattered. Rainfall mostly less than 0.50 in. with a few stations reporting over 1.00 in. Temperatures 2 to 3° above normal.

Pastures continue good to excellent. Additional rain would be beneficial, especially in some central, northern areas. Cattle, calves remain in generally good to excellent condition. Soil moisture mostly adequate south, short to adequate central, north and Panhandle. Corn good condition. Silage making increasing. Soybean planting continued. Peanuts

good growth. Tobacco harvest active. Small grain harvest complete. Peach harvest nearing completion. Sugarcane good condition. Citrus grove condition excellent. Moisture adequate with some irrigation. New crop fruit making excellent progress, old crop Valencias holding well. Labor short supply some locations. Overall vegetable crop condition fair to good. Many crops declining seasonally while others have completed harvest. Shipments down 8% from previous week. Supplies eggplant up considerably. Harvest sweet corn, okra, watermelons, also increased while squash held steady. Snap bean, cabbage, carrot, celery, cucumber, escarole, lettuce, parsley, pepper, potato, radish, tomato supplies decreased. Season about complete for watermelons southwest, west central, southeast areas. Quality variable, volume light. Volume increasing north central, north areas. Quality, size good to very good. Harvest very active. Crop continued to make fair progress in west.

GEORGIA: Temperatures close to normal with departures ranging from 3° above to 2° below normal. Average temperatures ranged from 70° in mountains to 81° southeast. Extremes: 93 and 56°. Rainfall ranged from over 2.00 in. northeast to less than 0.25 in. south. Most stations reported precipitation, and some local spots even in south received up to 5.00 in.

Soil moisture surplus northern third, short to mostly adequate elsewhere except some very short south central border. Fieldwork: 5 days suitable south and central, only 2 days north, average 4. Corn fair to mostly good. Cotton fair to mostly good; 55% squaring, 3% setting bolls; last year 19% and none; average 29% and 7%. Tobacco fair to good, improved; 5% harvested, 1% last year, 4% average. Peanuts good condition, 58% blooming, 17% pegging; last year 38% blooming, 12% pegging. Soybeans good condition, planting delayed by rain; 80% complete, 79% last year, 75% average. Watermelons good condition, 3% harvested, 1% last year. Peaches and apples good condition; peaches 34% picked, 16% last year and 32% average. Vegetables fair to good. Sorghum 60% seeded, same as average, 62% last year. Pasture, cattle and hogs remain good, haying slowed by rain. Fuel supplies continue mostly adequate. Wheat harvested 60%, 40% 1978, 65% average. Oats harvested 61%, 48% 1978, 68% average.

IDAHO: Temperatures 2° above normal north, near normal elsewhere. Precipitation generally well below normal.

Dry beans 80% planted, 35% emerged. Potatoes 60% emerged. Winter wheat 75% boot, 20% headed, last year 75% boot, 20% headed. Spring wheat 40% boot, 10% headed, last year 15% boot. Barley 30% boot, last year 15% boot. Fieldwork: 6.3 days suitable. Soil moisture mostly short to adequate. Farm fuel supplies mostly adequate.

ILLINOIS: Temperatures 1 to 6° above normal. Precipitation moderate to heavy after midweek, over 2.00 in. north, mostly over 1.00 in. elsewhere except east less than 0.25 in.

Soil moisture short to adequate. Corn good; average height 7 in., 4 in. 1978, 11 in. average; height advanced fields 14 in., 10 in. 1978, 19 in. average; 88% full stand. Soybeans 91% planted, 70% 1978, 79% average. Wheat good; 25% turning yellow, 8% 1978, 55% average. Oats good; 35% headed, 21% 1978, 53% average; 6% filled, 5% 1978, 23% average. Sorghum 80% planted. Alfalfa hay 1st cutting 73% cut, 50% 1978, 60% average; good condition. Red clover 55% cut, 43% 1978, 55% average; good condition. Pastures good. Fieldwork: 5.8 days suitable.

INDIANA: Warm week. Temperatures 7° above normal and ranged from 47 to 92°. Humid late in period until cool front passed. Severe thundershowers and local rainfall of 4.00 to 7.00 in. extreme northwest 7th and in south central on 8th. Averages from 0.80 in. northeast to 2.80 in. southwest.

Fieldwork: 5 days suitable. Topsoil and subsoil moisture adequate. Corn 100% planted, 1978 93%, average 93%. Corn 90% emerged, 1978 75%. Corn stands good. Corn 7 in. high, 1978 5 in., average 10 in. Soybeans 92% planted, 1978 65%, average 75%. Soybeans 75%, emerged, 1978 40% average 70%. Soybean stands fair to mostly good. Soybeans 2 in. high, 1978 2 in., average 3 in. Wheat 100% headed, 1978 85%. Tobacco 65% plants set, 1978 35%, average 60%. Pastures good. Fuel supplies adequate.

IOWA: Hot, dry weather continued into 8th then showers with much cooler temperatures moved southeastward with more general showers on 9th followed by clearing and cool on 10th and early on 11th. Showers spotty but most of eastern two-thirds reported moderate amounts while west reported only light showers.

Fieldwork: 6.1 days favorable. Topsoil moisture short to adequate. Subsoil moisture adequate. Corn acreage emerged 99%, 1978 87%, normal 94%; 35% corn cultivated first time. Soybean acreage planted 98%, 1978 88%, normal 92%; acreage emerged 71%, 1978 71%, normal 79%; 88% of normal soybean stand. First crop alfalfa hay harvested 45%, 1978 36%, normal 50%. Crop conditions: Oats improved; corn, beans, clover hay, alfalfa hay stable; wheat and pasture decline.

KANSAS: General rains 1.00 to 1.50 in. west and north, 2.00 to 4.00 in. southeast. Excessive rains of 4.00 to over 8.00 in. 75-mile wide band north of Wichita to Paola 7th. Temperatures 66 to 68° west and north central to 74° southeast or from 2 to 5° below normal central and southwest to around normal elsewhere.

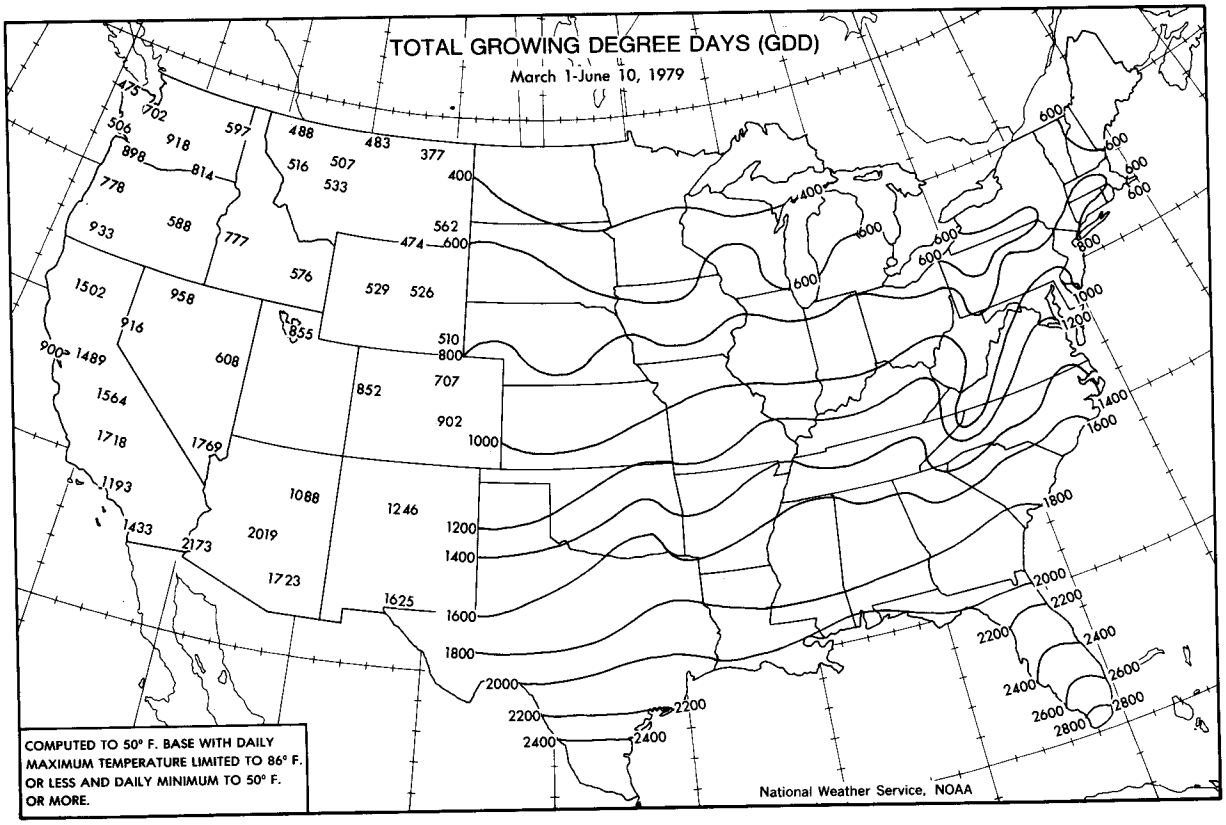
Wheat crop development lags nearly a week; 20% wheat turning color, last year 35%, average 50%. Condition remains generally good to excellent. Some lodging due to heavy rains. Corn planting 100%, last year 95%, average 95%; some replainting done. Sorghum planting 60%, last year 55%, average 55%. Soybean planting 55%, last year 45%, average 55%. First cutting alfalfa 85% completed, last year 75%, average 85%. Second cutting just starting, last year 5%, average 5%. Fieldwork: 5.5 days suitable. Gasoline and diesel fuel supplies show improvement.

KENTUCKY: Precipitation during the latter half of week averaged 0.75 to 1.50 in. but with locally much greater amounts. Week-long warming trend ended with cold frontal passage 10th, but temperatures averaged several degrees above normal.

Fieldwork: 4 days suitable. Soil moisture adequate to surplus. Corn for grain nearly planted. Some switching to short season varieties or soybeans. Average height of emerged corn 8 in., last year 13 in., average 16 in. Some insect damage, but not serious yet. Soybeans 50% planted, last year 55%, average 78%. Just over half dark tobacco set. Barley harvest just started. Prospects remain good for both wheat and barley. Pastures remain good but hay quality suffered because of rain.

LOUISIANA: Temperatures 1 to 2° above normal. Extremes: 95 and 61°. Scattered showers.

Fieldwork: 3.3 days suitable. Soil moisture adequate to surplus. Soybeans fair to good; 72%




planted, 78% last year, 73% average; 65% emerged. Cotton fair. Rice good. Corn good; 55% tasseled, 52% last year. Sorghum good; 75% planted; 74% last year, 71% average; 65% emerged. Sweetpotatoes good; 86% transplanted, 83% last year, 77% average. Tomatoes harvested. Peaches good; harvest continued. Sugarcane fair to good. Wheat 55% cut, 72% last year, 85% average. Hay, pastures, cattle good condition.

MARYLAND & DELAWARE: Temperatures about normal. Highs in upper 70's to low 80's and lows in 60's. Precipitation light, about 1.00 in.

Fieldwork: 2.6 days suitable. Soil moisture mostly surplus. Fuel supplies mostly adequate. Corn planting just over 90% complete, 95% last year, 96% normal. Soybeans slightly over 30% complete. Haymaking halted. Tobacco fields nearly 50% planted.

MICHIGAN: Temperatures ranged from normal to 9° above. Maximum temperatures in 80's. Minimum temperatures in 30's set record lows in Upper Peninsula. Precipitation varied from 0.25 to 3.00 in. Scattered thunderstorms.

Fieldwork: 5 days suitable. Soil moisture mainly short. Pasture feed average. Corn 97% planted, 95% last year and normal. Soybeans 85% seeded, 80% last season and normal. Dry beans 30% planted, 45% last year, 35% normal. Wheat 50% headed, 45% last season, 55% normal. Oats just beginning to head. First cut hay 15% complete, same as last year, 20% normal. Potatoes 95% planted, 90% normal. Most fruits average set. Peaches and tart cherries light set. First crate of strawberries auctioned June 3. Asparagus 75% harvested. Most vegetable development average to below average due to cool spring.

MINNESOTA: Temperatures near normal except south central, southeast up to 3° above normal. Extremes: 95 and 38°. Precipitation near normal except northwest up to 0.75 in. subnormal, southeast up to 0.70 in. subnormal, and northeast up to 1.00 in. above normal. Precipitation totals less than one in. north east half over 1.00 in. southeast half.

Planting nearly completed. Moisture mostly adequate except short west central. Some fields under moisture stress. Weekend rains relieved shortage south central. Most crops growing well but some late planting emerging unevenly where moisture short. Cultivating, row crops, cutting alfalfa hay underway. Winter wheat, rye heading. Planted: Corn 97%, 1978 98%, normal 98%; soybeans 93%, 1978 94%, normal 95%; spring wheat 95%, 1978 99%, normal 94%; oats 97%, 1978 99%, normal 96%; barley 94%, 1978 99%, normal 93%; sunflowers 86%, 1978 94%, normal 98%; flax 77%, 1978 94%, normal 90%; potatoes 77%, 1978 98%, normal 91%; green peas for processing 96%, 1978 99%, normal 99%; sweet corn for processing 85%, 1978 98%, normal 93%.

MISSISSIPPI: Temperatures below normal. Extremes: 56 and 94°. Rain early and midweek, clear and warm late week.

Soil moisture surplus to excessive except southern third where mostly adequate. Fieldwork: 2.6 days suitable. Rains continue to slow planting progress and hamper weed control. Soybeans 47% planted, 67% 1978, 64% average; 35% up to stand, 54% 1978, 52% average; condition good to fair. Cotton 98% up to stand, 99% 1978, 99% average; 2% squaring, 5% 1978, 10% average; condition fair. Rice 97% planted, 100% 1978, 98% average; 90% up to stand, 98% 1978, 96% average; condition fair to good. Corn 96% planted, 99% 1978, 96% average; 93% up to stand, 96% 1978; 14% silked, 8% 1978; condition good. Winter wheat 80% ripe, 86% 1978; 17%

harvested, 26% 1978, 47% average; condition good. Peanuts 84% planted. Sorghums 61% planted, 65% 1978, 66% average. Sweetpotatoes 72% planted, 75% 1978, 74% average. Hay crops 21% harvested, 29% 1978, 27% average. Peaches 6% harvested, 4% 1978, 11% average; condition good to fair. Pastures good condition. Supplies of diesel and gasoline adequate to tight, LP gas supplies adequate.

MISSOURI: Temperatures 4 to 5° above normal along Mississippi River, about normal elsewhere. Rainfall very spotted.

Fieldwork: 4.3 days suitable. Corn 96% planted, last year 70% normal 90%. Soybeans 70% planted, last year 39%, normal 65%. Grain sorghum 69% planted, last year 43%, normal 68%. Cotton 94% planted, last year and normal 100%. Alfalfa hay 1st cutting 71% harvested, last year 45%, normal 76%. Wheat 94% headed, last year 92%, normal 100%. Wheat turning color 38% complete, last year 40%, normal 83%. Condition of winter wheat and pasture mostly fair to good. Soil moisture supplies mostly short to adequate. Diesel fuel and gasoline supplies mostly tight to adequate. LP gas supplies mostly adequate.

MONTANA: Moderate to heavy precipitation fell over south central and southeast midweek, elsewhere had only light amounts. Temperatures very near seasonal but averaged about 2° above normal in west to 2° below normal in southeast.

Soil moisture short to adequate. Fieldwork: 6 days suitable. Winter wheat fair condition, 35% in boot, 60% 1978, 40% average. Spring wheat, barley, oats, and sugarbeets all in good condition. Corn planted 85%, 80% 1978, 90% average. Potatoes planted 90%, 85% 1978, 95% average. Dry beans planted 85%, 95% 1978, 95% average. Sugarbeets thinned 20%, 25% 1978, 40% average. Yield prospects for alfalfa hay good, wild hay fair.

NEBRASKA: Temperatures above normal first half; below remainder. Precipitation widespread, averaged 0.50 in. to 1.00 in.

Corn emergence 90%, year ago 90%. Sorghum planting 95%, year ago 90%, normal 90%; emergence 60%, year ago 65%. Soybean planting 95%, year ago 90%, normal 90%; emergence 55%, year ago 55%. Wheat 75% headed, year ago 95%. Diesel fuel adequate to tight, 10% deficit. Gasoline adequate. LP gas adequate. Fieldwork: 6 days suitable.

NEVADA: Few scattered showers early, cooler midweek, warming trend end of period. Temperatures averaged above normal most areas. Extremes: 108 and 19°.

Alfalfa hay cutting gaining momentum. Little or no precipitation aiding harvest. Summer ranges mostly good condition.

NEW ENGLAND: Cold front moved through region 5th producing 0.15 to 2.00 in. rainfall. Few afternoon showers occurred late week in far north, with a few more tenths inch rain recorded. Temperatures averaged near to well above normal. Highs 70's and 80's; lows 50's and 60's.

Some hail damage to fruit and vegetable crops in southern areas. Planting of late vegetable crops has been delayed by rains and wet fields. Cool weather caused slow growth of heat-loving vegetables. Cranberry bogs look good, no frost warnings this year, bloom just starting. Strawberry harvest underway. Fruit growers applying thinning sprays where needed, many don't need it. Potatoes are up and growing. First cuttings of hay being made. Fuel supplies mostly adequate, except a few tight reports.

NEW JERSEY: Temperatures 1 to 3° above normal. Extremes: 48 and 86°. Rainfall averaged 0.31 in. north, 0.53 in. cnetral and 0.45 in. south. Soil moisture, in percent of field capacity 86% north, 87% central and 81% south. Soil temperature 68° north, 72° central and south.

Fieldwork: 3 days suitable. Excessive rain continued to cause problems. Fieldwork disrupted, disease and insect problems increased, crop quality hurt and production losses common. Fuel supplies reported adequate to tight.

NEW MEXICO: Substantial rainfall early week then again on 8th. Greatest totals northern mountains and northeast. Warmest at midweek; temperatures averaged 6 to 7° subnormal.

Heavy rains north flooding apple orchards and cropland. Rains eastside delaying planting and other outside activity. Cool weather delaying crops development. Cotton 2 to 3 weeks behind normal. Growth all up to good stands except Quay County, where 20% emerged. Sorghum irrigated crop fully planted and good stands, dryland only half planted. Alfalfa hay cutting interrupted by rains with some down hay damage. South half into second cut, north about 50% first cut. Onion pulling increasing Mesilla Valley; chile peppers growth retard cool weather. Pecans good condition, good set. Ranges now best in years due widespread rains.

NEW YORK: Temperatures in 60's and 70's, 10° above normal. Rainfall locally heavy, but mostly below normal.

Good fieldwork weather. Corn 90% planted, 1978 same. Wheat heading. Haying underway, first cutting alfalfa 10% in. Clover-timothy harvest 5% done, grass silage 15%. Dry bean planting well underay. Cabbage planting 50% complete. Sweet corn 75% planted. Snap bean planting progress variable. Tomato planting nearing completion. Apple set good. Pear and cherry condition good, peach condition fair.

NORTH CAROLINA: Temperatures near normal. Precipitation generally 1.00 to 2.00 in.; locally heavy showers 3.00 to 5.00 in.

Fieldwork: 3.5 days suitable. Soil moisture adequate to surplus. Condition: tobacco, corn, cotton, soybeans fair to good; peanuts and vegetables mostly fair to good; hay, Irish potatoes, sweetpotatoes, apples, peaches and pasture fair to mostly good. Planted: Burley tobacco 83%, 1978 51%, average 82%; soybeans 63%, 1978 70%, average 73%; sorghum 61%, 1978 54%, average 67%; peanuts 84%, 1978 99%, average 100%; sweetpotatoes 87%, 1978 75%, average 72%. Harvested: Wheat 10%, 1978 5%, average 18%; oats 12%, 1978 12%, average 27%; barley 17%, 1978 22%, average 31%; rye 16%, 1978 14%, average 25%; peaches less than 5%, 1978 4%, average 8%; hay 44%, 1978 41%, average 38%; Irish potatoes less than 1%, 1978 4%, average 7%; spring cabbage 60%; spring snap beans 45%.

NORTH DAKOTA: Drying weather prevailed. Rain mainly light showers. Largest amount 0.38 in. southwest. Temperatures near normal. Extremes: 33° southwest to 85° south central.

Good week for fieldwork. Small grain seeding nearing completion. Need one additional good week to complete row crops. Soil moisture becoming short, particularly southwest quarter. Spraying for control of wild oats and other weeds underway. Insect damage beginning to appear. Flea beetles north; cutworms and grasshoppers east. Percents planted with comparisons to last year and average: Hard red spring wheat 96%, 98%, 97%; durum wheat 92%, 97%, 96%; oats 95%, 97%, 96%; barley 95%, 98%, 95%; potatoes 92%, 97%, 90%.

OHIO: Rainfall varied from 0.20 to 1.60 in. heaviest in central and south. Temperatures 1 to 8° above normal ranging from 49 to 89°.

Crop conditions satisfactory, wet fields hinder completion of spring plantings, muggy weather aids crop development. Small acreage of corn yellowed due to excessive top soil moisture. Most of acreage in six leaf stage. Few fields of wheat lodged due to high winds. Quality of hay hurt due to frequent rains. Pastures very good. Livestock in excellent condition. Soybeans planted 95%, 80% 1978, 95% average. Tobacco transplanted 30%, 25% 1978, 50% average. First crop alfalfa cut 50%, 40% 1978, 50% average. Other hay cut 30%, 30% 1978, 35% average. Wheat turning color 10%, 5% 1978, 15% average. Oats headed 10%, 10% 1978, 30% average. Corn average height 10 in., less than 10 in. 1978, 10 in. average. Fieldwork: 4.5 days favorable. Soil moisture adequate to surplus.

OKLAHOMA: Temperatures 6 to 9° below normal Panhandle and 1 to 3° below normal north central and southern third. Elsewhere, temperatures near normal. Precipitation generally high, ranging from 1.21 in. southeast to 4.00 in. southwest.

Topsoil and subsoil moisture adequate. Wheat harvest flared to life briefly last week but dampened by additional rain. Wheat rated excellent to good, but one more bout of wet weather would begin to affect quality of grain. About 90% soft dough to ripe, 75% 1978, 95% normal. Sorghum stands plagued by greenbugs. Sorghum rated good to fair with 47% planted, 54% 1978, and 68% average; 18% up to stand, 29% 1978, 36% normal. Cotton rated good to fair with 30% up to stand, 30% 1978, 36% normal. Cotton planting 60% complete, 54% 1978, 75% normal.

OREGON: Cooling at midweek with another warm spell at weekend. Temperatures near to 5° above normal. Maximum temperatures in 80's and lower 90's, except 65 to 75° along north and central coast. Minimum temperatures in 30's to lower 40's; upper 20's in some higher valleys east. Precipitation confined to north coast and northeast mountain areas with less than 0.25 in.

Soil moisture supplies short except a few isolated areas. Winter wheat 80% headed; some dry spots turning up. Mint fields spotty; spraying continued. Beets and hops fairly good. Spring barley heading out; winter barley headed and starting to turn. Hay cutting active. Strawberry picking well underway; pickers short in many areas. Fruit crops good condition. Irrigation started in most orchards in Hood River County. Cranberries blooming. Filberts generally good. All vegetable plantings on schedule. Most fields good, dry weather and cool nights showing some affects. Potatoes all planted and emerging on late areas. Onions doing well. Livestock condition good. Range and pastures fair to excellent. Serious grasshopper outbreaks in north central ranges. Sprays needed.

PENNSYLVANIA: Warm mostly cloudy and very humid. Temperatures 2 to 5° above normal. Extremes: 44 and 90°. Daily scattered showers and thunderstorms produced 1.00 to 2.00 in. rainfall in central areas decreasing to 0.20 in. extreme east and few south central border counties. Rain has now fallen during each of the last 24 days.

Fieldwork: 3 days suitable. Soil moisture mostly surplus. Activities: Spraying; cultivating; hay making; filling silos; planting corn, soybeans, potatoes, tobacco and vegetable plants. Corn 91% planted, same last year, average 93%. Corn height 5 in., same last year. Tobacco 34% transplanted, last year 41%. Soybeans 65% planted, same last year. Barley 70% headed, 16% turning, last year 4% turning. Wheat 80% headed, last year 56%. Oats 8% headed, last year 4%. Alfalfa first cut 15%, clo-tim 9%. Hay quality poor, used as mulch, bedding.

PUERTO RICO: Island average rainfall 1.55 in. or 0.18 in. below normal. Temperatures about 80° on coasts and 75° interior. Extremes: 93 and 57°.

SOUTH CAROLINA: Temperatures below normal except south. Daily changes slight except somewhat high temperatures last days. Rainfall above normal in mountains, northwest; little or none in east or south. Scattered heavy thunderstorms produced locally flash flooding.

Soil moisture adequate to surplus. Fieldwork: 3.5 days suitable. Corn condition good; side dressing, cultivation behind schedule; silked stage 18%, 2% dough stage. Scouting cotton where problems prevalent, bollworms in evidence early. Soybean planting progress hindered some by wet condition, 78% planted, 73% last year, 74% average. Tobacco condition fair to good, 8% topped. Blue mold damaging due to humid weather; some severe injury by contaminated fertilizer; surveying counties. Peach size excellent due to warmth, rains, 6% harvested under good conditions, 5% last year, 10% average. Small grain, hay harvest slowed by rainy weather; grain hay 74% harvested, 87% last year, 92% average. Wheat 15% harvested, 20% last year, 45% average.

SOUTH DAKOTA: Temperature extremes 30 and 97°. Averages normal to 2° subnormal. Precipitation 0.50 in. above normal southeast, elsewhere 0.50 in. subnormal.

Topsoil moisture short except adequate east. Fieldwork: 5.5 days suitable. Farm fuel situation tight to adequate. Corn 96% planted, 1978 90%, average 97%. Flax 94% planted, 1978 86%, average 94%. Soybeans 86% planted, 1978 82%, average 88%. Sorghum 78% planted, 1978 53%, average 72%. Sunflowers 77% planted, last year 50%, average less than 1%. Winter wheat 78% boot, 1978 89%, average 94%. Rye 84% boot, 1978 100%, average 96%. Oats 21% boot, 1978 25%, average 47%. Spring wheat 15% boot, 1978 16%, average 37%. Barley 19% boot, 1978 21%, average 43%. Winter wheat 33% headed, 1978 38%, average 66%. Rye 57% headed, 1978 79%, average 83%. Alfalfa 8% 1st cutting, 1978 9%, average 22%. Corn 14% cult, 1st time, 1978 16%, average 35%. Corn 4 in. high, 1978 4 in., average 5 in.

TENNESSEE: Light showers midweek; amounts generally less than 0.25 in. Temperatures 1 to 4° above normal.

Fieldwork: 2.9 days suitable. Soil moisture adequate to surplus. Corn planted 91%, 1978 93%, average 92%. Cotton planted 100%, 1978 100%, average 100%. Soybeans planted 47%, 1978 61%, average 67%. Tobacco transplanted 80%, 1978 65%, average 86%. Wheat turning color 90%, 1978 78%, average 94%. Wheat ripe 15%, 1978 15%, average 50%. Oats turning color 85%, 1978 65%, average 87%. Oats ripe 9%, 1978 12%, average 32%. Barley turning color 84%, 1978 79%, average 60%. Barley ripe 18%, 1978 20%, average 15%. Few scattered fields small grains harvested. Snap bean planting halted by wet weather. Cutworms heavy in commercial tomato acreage. Gasoline and diesel fuel adequate to tight.

TEXAS: Above normal rainfall statewide. Only Upper Coast received normal amounts. Normal amounts ranged from less than 0.25 in. southwest to over 1.00 in. eastern Panhandle. Temperatures

averaged 5° below normal Panhandle and northeast; elsewhere near normal.

Heavy rains hampered cotton and sorghum planting on Plains and slowed small grain harvest in central and south. Rains also caught portions of east hay crop on ground while halting soybean planting along Gulf Coast. Lower Rio Grande Valley inundated with heavy rains, with some damage noted. Fuel supplies for farming remained generally adequate to tight as fieldwork slowed due to precipitation. However, diesel prices rose substantially in many localities. Some cotton acreage may be replanted due to soil compaction and washing. Cool, wet weather promoted seedling disease throughout Panhandle. Spraying for fleahopper control noted in many South Texas fields. Recent rains caused many South Texas fields to shed squares and bolls, especially Valley. Sorghum planting on Plains and Cross-Timbers, as well as plant development statewide, slowed by recent rains. Cool, rainy weather delayed wheat maturity throughout Panhandle. Recent rains, winds lodging fields statewide. Few Central and South Texas fields seem to be total loss. Rust, smut observed in isolated fields on Plains. Harvesting severely hampered by rains in south and Blacklands. Hay growth and production enhanced by ample moisture but rains caught some hay curing in field. Producers preparing for third alfalfa cutting in portions of Trans-Pecos. Cool and cloudy weather hampered rice development along Gulf Coast. Soybean planting continued to lag behind normal due to heavy rains and wet fields, with some replanting necessary. Sunflowers noted blooming in portions of Blacklands. Cotton planted 82%, 82% 1978, 91% average; squaring 13%; setting bolls 6%. Rice emerged 100%; headed 1%. Sorghum planted 87%, 88% 1978, 90% average; headed 32%; turning color 11%. Wheat turning color 76%; harvested 6%, 15% 1978, 28% average. Barley harvested 15%, 2% 1978 31% average. Flax harvested 95%, 100% 1978, 93% average. Oats harvested 31%, 54% 1978, 61% average. Peanuts planted 44%, 52% 1978, 57% average. Soybeans planted 37%, 43% 1978, 65% average. Sunflowers planted 42%, 12% 1978, 43% average.

Lower Rio Grande Valley, heavy rains interrupted harvest of cucumbers, honeydews, bell peppers, cantaloup, watermelons, onions. Some cantaloup and onion fields lost due heavy rains. Rains dampened tomato fields and delayed land preparation for fall planting. Coastal Bend rains limited cucumber harvest. Laredo field activity minimum because heavy rains. Eagle Pass rain continued wet conditions and destroyed some onion and cantaloup fields. San Antonio-Winter Garden rain curtailed harvest of onions, cucumbers, beets. East Texas, insects and disease on increase. Central Texas potatoes, beans, squash being harvested. Melons and tomatoes developing well although some tomato fields damaged by heavy rains. High Plains melon planting active. Tomatoes, potatoes, onions, bell peppers continued to progress well. Peach harvest active. Pecan producers continued spray for casebearer control except where rains persistent Central and Southeast Texas.

Rangeland and pastures providing adequate to abundant grazing following rains. Weed populations increased many areas Central and North Texas. Grasshoppers on increase on High and Low Plains. Statewide, livestock good to excellent condition.

UTAH: Few scattered showers and thunderstorms latter week principally north central and southeast. Moisture generally light. Cooling trend temperatures latter part period; averages ranged from 4° below normal to 4° above.

Soil moisture getting short, especially northern half although range feed supplies good. Fieldwork: 7 days suitable. First cutting of alfalfa 40% complete with varied quality. Insects a problem in south and weeds a problem in scattered areas over State. About 40 to 45% on spring planted small grains jointing; 40 to 45% in boot; 10 to 20% headed. Vegetable crops generally making good progress. Livestock on ranges in good condition. Fuel supplies generally adequate, tight in some areas.

VIRGINIA: Moderate temperatures gave way to cooler weather early week then warming trend rest of week. Extremes: Mid-40's to low 90's. Moderate rainfall mainly first of period and light scattered rainfall over weekend. Minor flooding continued in some locations due to heavier rainfall previous week which resulted in three deaths due to flash flooding.

Topsoil moisture adequate to surplus. Fieldwork: 3.1 days favorable. Soybean seeding 40% done, 41% 1978, 58% usual; Tidewater and southeast soybeans 37%, 38% 1978. Tobacco set: Flue-cured 95%, 82% 1978; fire-cured 85%, 49% 1978; burley 70%, 44% 1978; sun-cured 85%, 50% 1978, 80% usual. Small grain combining: Barley 6%, 3% 1978, 16% average; wheat 1%, less than 1% 1978, 3% usual; oats 2%, 1% 1978, 7% average. Peanuts fair; corn, soybeans, pasture, hay good. Erosion in corn, soybean, peanut fields causing growers to replant. Some problems herbicide ineffectiveness and inability to cultivate. Insect infestations some crops in a few localities. Spraying where possible with aerial applications also. Lodging of small grains yielding harvest difficulties.

WASHINGTON: West: Temperatures near normal to 2° above normal. Precipitation 0.10 to 0.20 in. below normal. Light showers followed by clearing.

Irrigation continued. Strawberry picking underway, good harvest expected. Raspberry harvest in two weeks. Green pea planting virtually complete, early seeded fields in bloom. Cabbage seed fields setting seeds. Lettuce harvest active. Green chopping, hay making active.

East: Temperatures 1° below normal to 2° above normal. Precipitation 0.20 to 0.40 in. below normal. Generally mild weather with some scattered rain, light frost, wind.

Hand thinning apples underway, spray programs active. Cherry picking just underway, more active next week. Cutting asparagus continued. No damage to grain stands from frost evident. Moisture stress major concern. Some dry beans still being planted to replace winterkilled wheat and alfalfa. Hay harvest active. Program to spray grasshoppers organized. Wheat headed 56%, 1978 61%.

WEST VIRGINIA: Temperatures above normal. Extremes: 91 and 42°. Precipitation below normal north central and northwest; above average elsewhere.

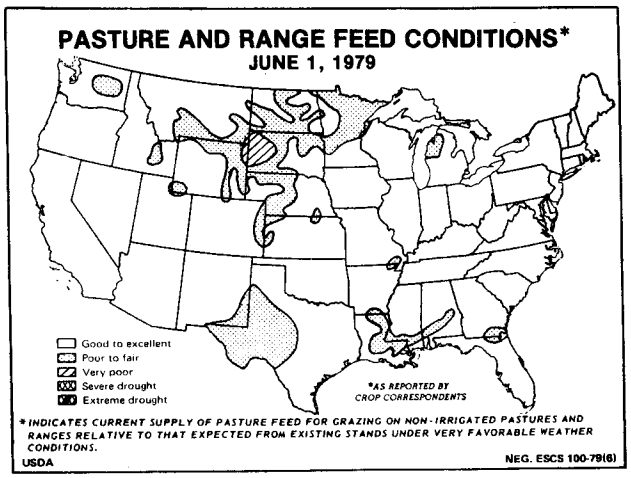
Fieldwork: 3.7 days suitable. Soil moisture mostly adequate to surplus. Main activities haying, corn planting and farm maintenance. Barley 23% pre-headed, 76% headed and 1% ripe. Wheat 26% pre-headed, 73% headed and 1% ripe. Corn fair to good condition 90% planted, 80% emerged. Tobacco set: 28% 1979, 21% 1978. Pasture and hay condition mostly good. Hay 1st cutting 20% complete. Fuel supply mostly adequate.

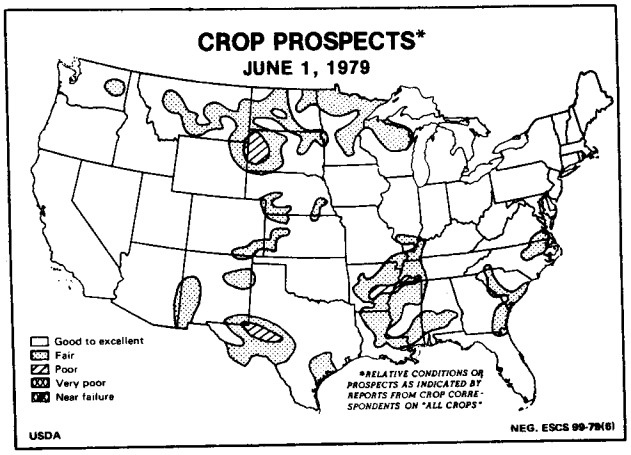
WISCONSIN: Temperatures 2° above normal. Warm and humid midweek. High readings in 70's and 80's except cooler 10th. Extremes: 88 and 43°. Showers and thunderstorms every day except 5th. Rainfall totaled 1.00 to 2.00 in. most areas. Heavy storms west 4th with some hail. Severe storms south 9th.

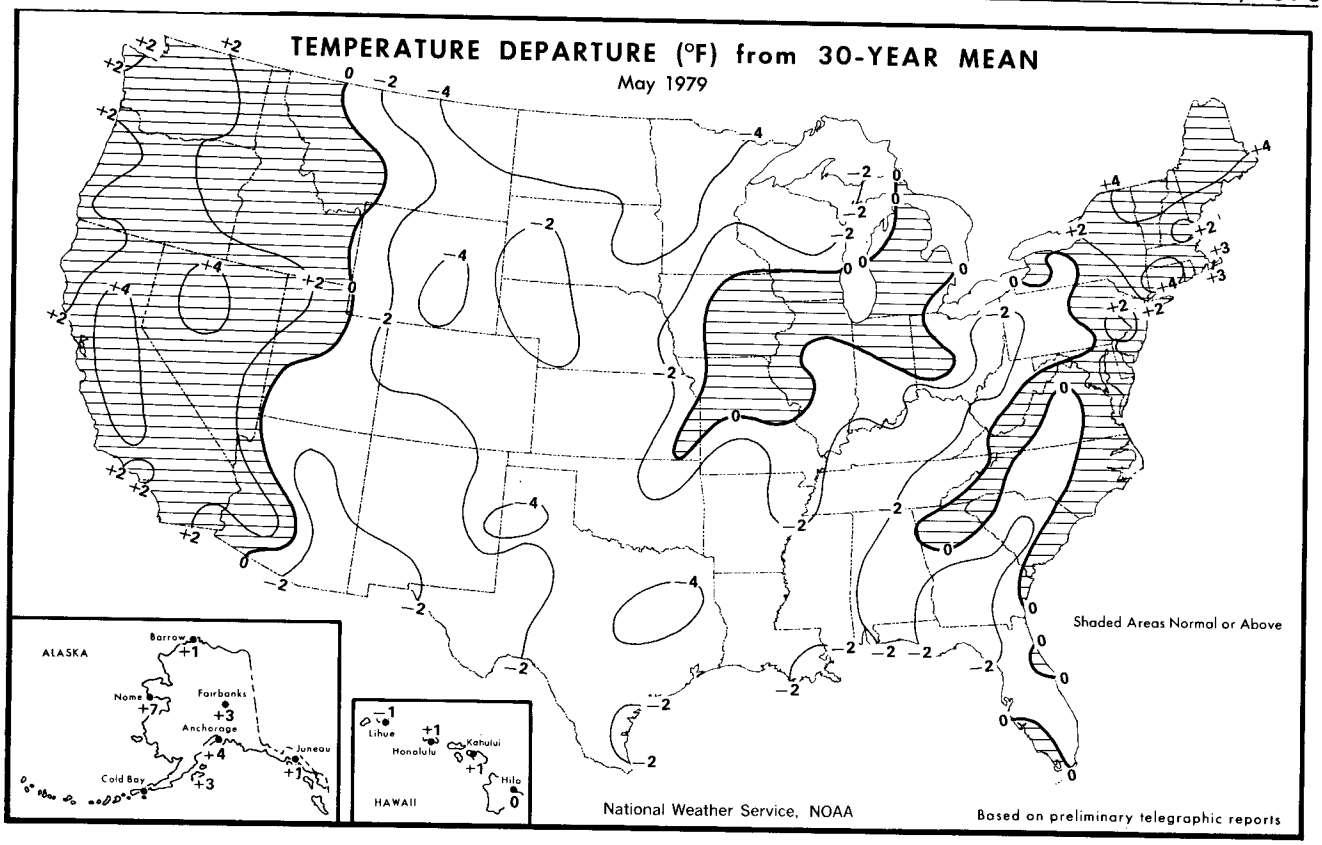
Crops mostly planted except for some wet spots. Fieldwork: 5 days suitable. Corn 95% planted, 1978 99%, normal 97%. Warmer weather, humidity, and moisture contributed to good corn germination and growth. Soybeans 85% planted, 1978 90%, normal 80%. First crop haying 10% harvested, 1978 25%, normal 15%. Rain slowed haying, south most advanced. Alfalfa weevil population high in unharvested and untreated alfalfa fields south. Oats, winter wheat, and other small grains look good. Pastures very good. Early peas doing well. Potato planting finishing in north. Sweet corn and other vegetables being planted. Tobacco being transplanted. Strawberry harvest to begin soon. Apple trees in bloom north, cherry trees had good bloom. Topsoil moisture short to adequate southern half, adequate to surplus northern half.

WYOMING: Temperatures ranged from 3° above normal to 4° below normal. Lower Platte drainage received most precipitation with most stations above 1.00 in. Other drainages less than 1.00 in.

Topsoil moisture short to adequate. Fieldwork: 4 days suitable. Acreage planted: Dry beans 70%; corn 83%; barley 98%. Acreage emerged: Corn 58%; potatoes 43%; dry beans 28%; oats 83%; sugarbeets 92%; spring wheat 96%; barley 93%. Winter wheat and other spring planted crops in mostly good condition. Sugarbeet acreage 24% thinned. Winter wheat acreage 5% headed out. Small amount alfalfa hay cut. Ranges and pastures mostly good condition. Cattle and calves 57%, sheep and lambs 47% moved to summer ranges. Supplies of LP gas adequate most areas. Diesel fuel and gasoline tight in some areas.






## May Weather Summary

HIGHLIGHTS: Temperatures for the month of May averaged close to normal in most of the Nation, but extremes---both hot and cold---were common. The West, from the Plateau to the Coast, averaged 4 to 5 degrees warmer than normal. Freezing temperatures reached as far south as Kansas, and many record high temperatures were marked in the East.

Nearly all of the Nation received some rain, and numerous thunderstorms formed. Record amounts of rain accumulated in many areas. Rainfall was frequent in most of the agricultural areas where farmers were trying to plant spring crops.

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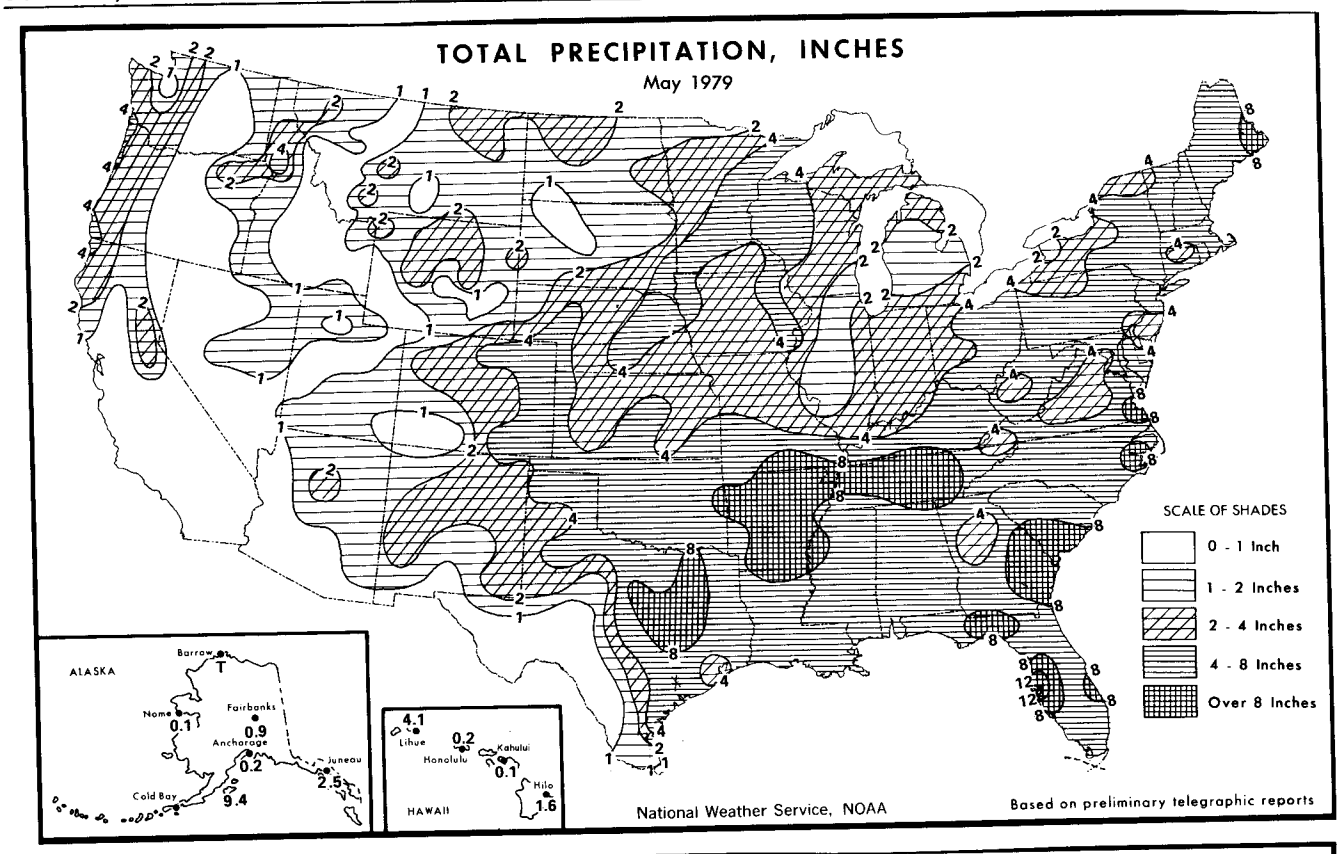
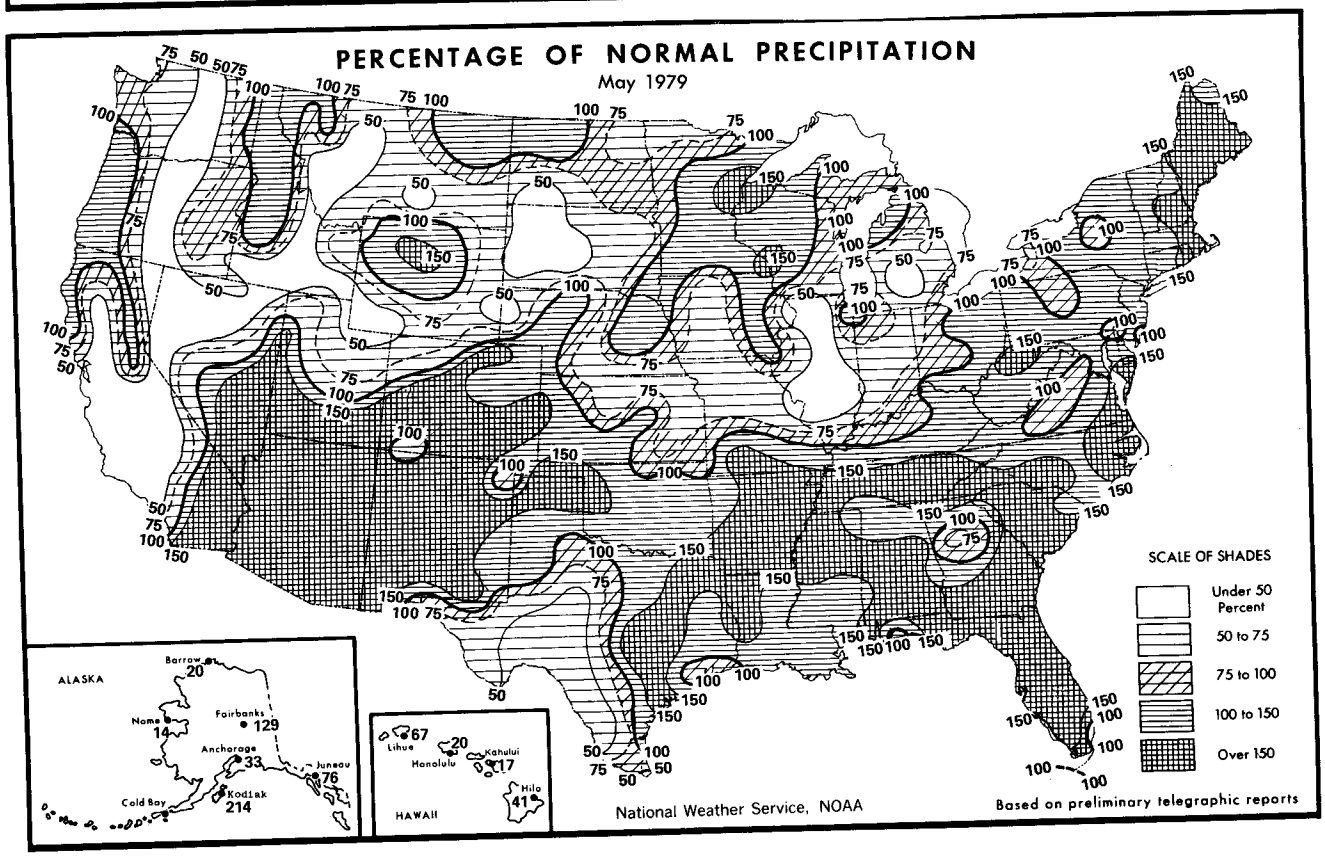
Three distinct rain patterns moved from the Rockies eastward during the first week of May. The first storm system moved from the central Plains through the Great Lakes. Moderate showers and thunderstorms accompanied the path of the storm with lesser amounts to the south. The succeeding storms brought the heaviest activity further to the south. Nearly all areas east of the Rockies had rain on at least 3 of the 6 days. At the end of the week, a storm moved into the Pacific Northwest and brought moderate rain to the coastal areas and snow to the mountains. Freezing temperatures dipped into the mountains and moved to the northern Plains.

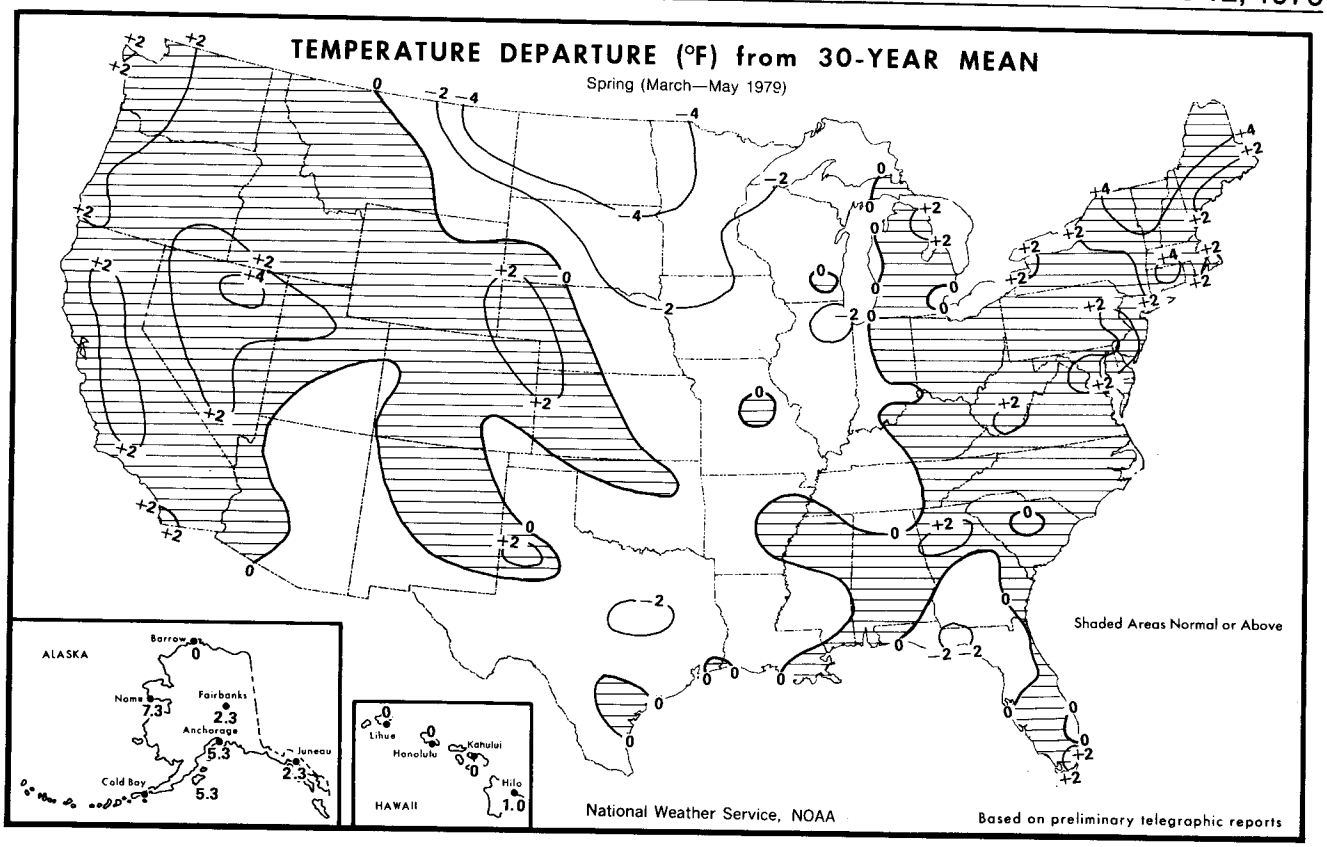
In the week from May 7-13, a mass of much cooler air pushed into the Plateau and Rockies and moved slowly eastward during the week. Warm, moist air edged into the Nation from the south ahead of the cooler air. Rain or snow showers accompanied the influx of cool air in the West, while heavier showers, thunderstorms, and tornadoes were plentiful east of the Rockies. The most severe weather hit the Nation's Southeast where some rains exceeded 10 inches. Freezing temperatures dipped into the Plains as far south as Kansas, while record high temperatures were being recorded east of the cold air.

A new weather system originated in Alberta, Canada, and moved eastward through the Canadian Provinces in the third week of May (14th-20th). A line of showers and thunderstorms extended southwestward from the center. Heavy amounts of rain soaked parts of the Texas/Oklahoma border, northern Arkansas, and southern Missouri. Late in the week, an upper air system caused moderate showers in the Southwest. Temperatures ranged warmer than normal through most of the Nation. Only the northern Plains, the South, and the Southeast recorded slightly cooler than normal readings.

The slow-moving system extending from the low pressure in southern Canada moved through the United States early in the week of May 21-27, and the upper air disturbance moved from the Southwest causing a surface low pressure to form in Texas. Heavy rains accompanied the storm, and it became more intense as it moved northeastward. More than 5 inches of rain soaked Texas and Arkansas, and 2- to 4-inch amounts extended from the southern Appalachians through the New England coastal areas. The severe storm lingered in the New England area, and the rain persisted until the end of the month.


TOTAL PRECIPITATION, INCHES
May 1979
SCALE OF SHADES
0 - 1 Inch
1 - 2 Inches
2 - 4 Inches
4 - 8 Inches
Over 8 Inches
ALASKA
Barrow T
Nome 0.1
Fairbanks 0.9
Anchorage 0.2
Juneau 2.5
Cold Bay 9.4
HAWAII
Lihue 4.1
Honolulu 0.2
Kahului 0.1
Hilo 1.6
National Weather Service, NOAA
Based on preliminary telegraphic reports


PERCENTAGE OF NORMAL PRECIPITATION
May 1979
SCALE OF SHADES
Under 50 Percent
50 to 75
75 to 100
100 to 150
Over 150
ALASKA
Barrow 20
Nome 14
Fairbanks 129
Anchorage 33
Juneau 76
Cold Bay
Kodiak 214
HAWAII
Lihue 67
Honolulu 20
Kahului 17
Hilo 41
National Weather Service, NOAA
Based on preliminary telegraphic reports




## Spring Weather Review

(March, April, May)

HIGHLIGHTS: The spring season was notable not only for above-normal precipitation in many parts of the Nation but for the frequency of rainfall. Even though a large portion of the Midwest had less than the normal amount of rain for the three-month period, the rain fell frequently and kept the ground wet. Drying began only in the latter part of the period. The Southwest, the Plains, the Southeast, and New England had well-above-normal precipitation. Amounts of 7 to 8 inches in the Southwest was double the normal rain. The northern Plains and south central Canada showed above-normal rains with moisture nearly every day. Seasonal average temperatures ranged colder than normal by 4 to 5 degrees in the northern Plains and warm in the west and New England.

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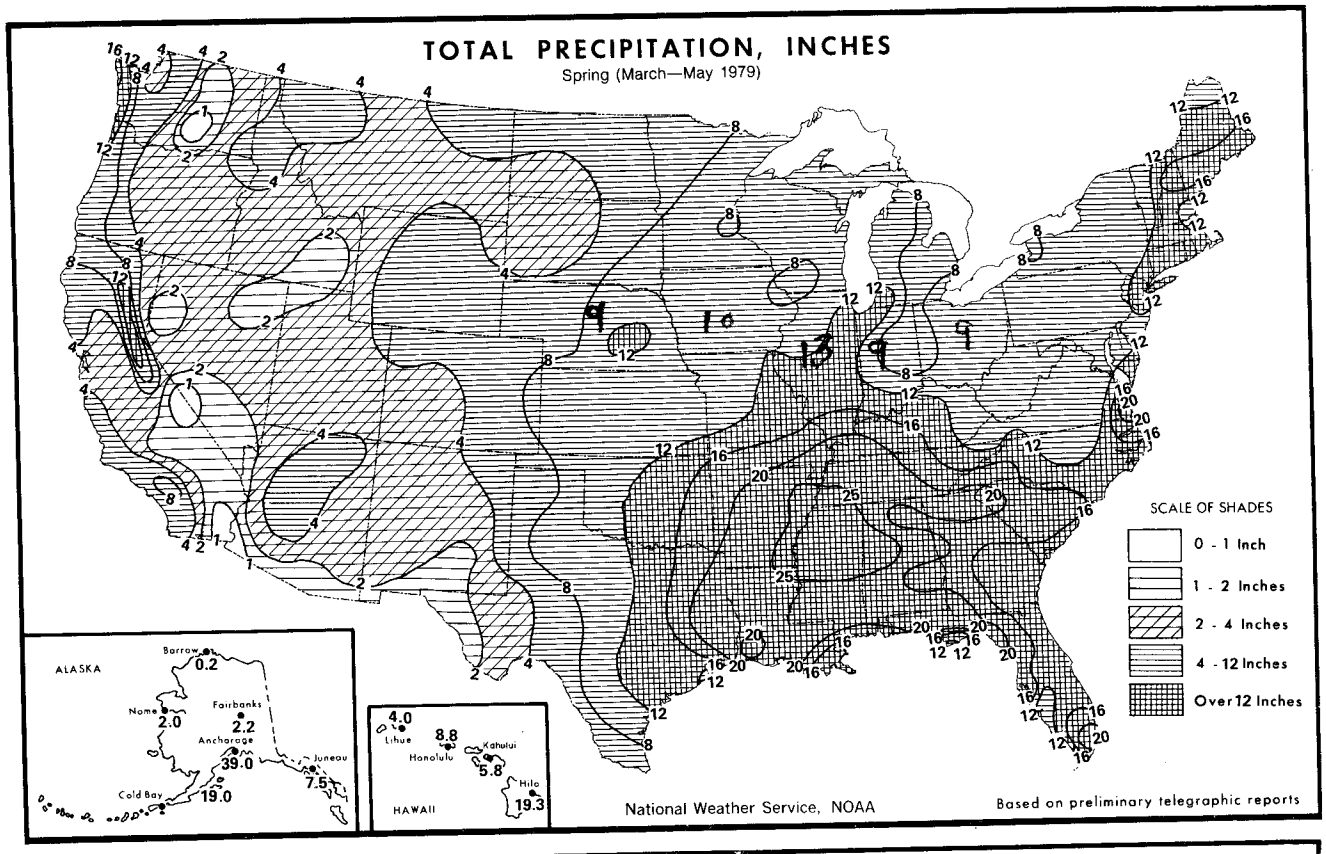
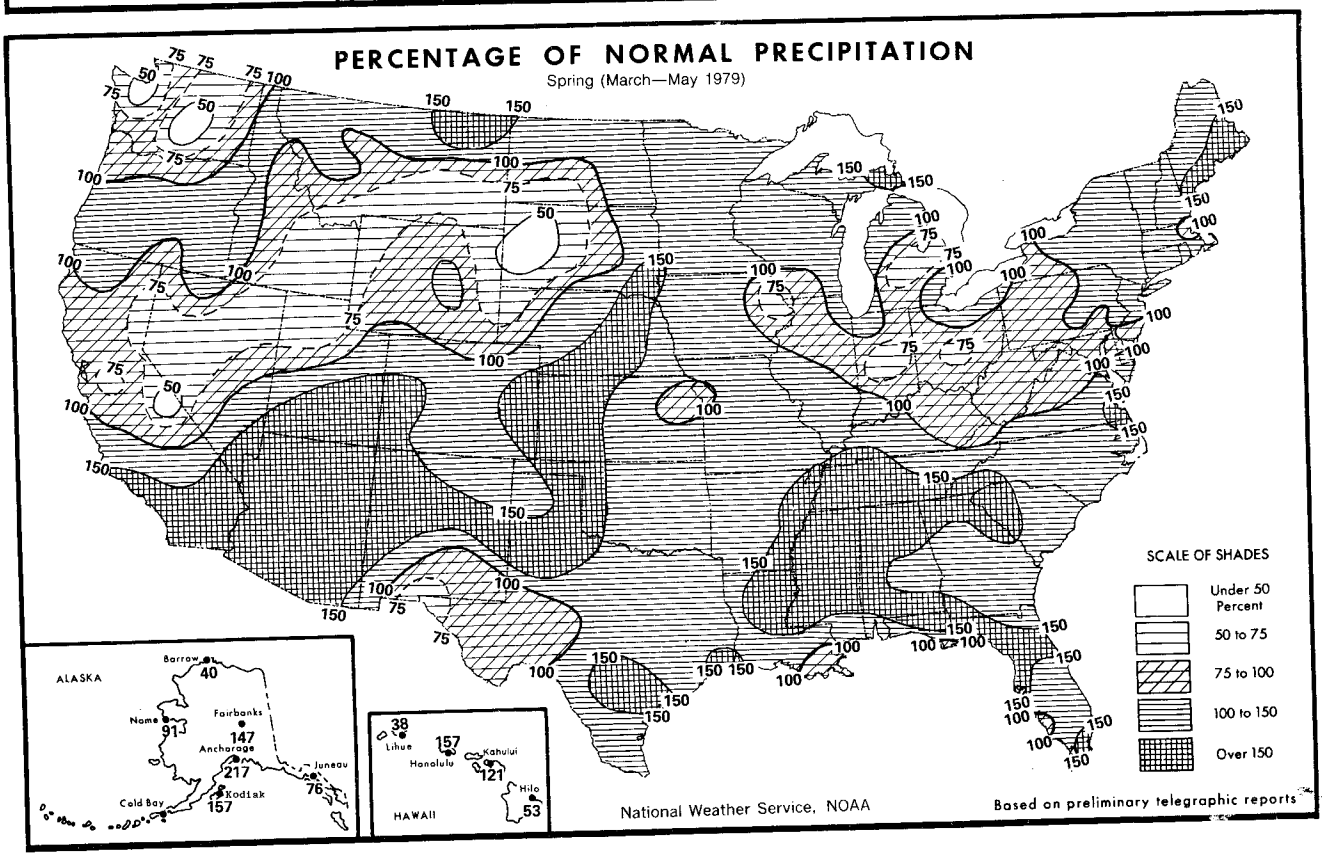
Spring rains are to be expected in the month of March, but some areas of the Nation had considerably more than normal. Severe weather started early in the month from the central Plains through the South to the Atlantic Coast. Early in the month, freezing temperatures dipped as far south as the Florida Panhandle. At mid-month, a series of storms moved into the Southwest bringing rain, some very heavy, to southern California and rain or snow to the southern Plateau and central and southern Rockies. The storms moved eastward to the Plains and, after being replenished with moisture from the Gulf of Mexico, brought heavy rain to the Plains and parts of the Midwest. Local flooding occurred where melting snow combined with the heavy rain.

Spring began with March temperatures averaging warmer than normal in nearly all of the Nation. The exception was the northern Plains where temperatures were 2 to 4 degrees colder than normal.

Early in the month of April, a series of cool outbreaks moved into the northern Plains and on southeastward. Moderate-to-heavy rain fell along the front of the cool air in the northern Plains and southern Canada. Rivers in the North, already choked with melting snow and ice, surged into flood stage. As the fronts moved southeastward, heavy rain and severe weather occurred from southern Texas through the lower Mississippi Valley and southern Appalachians. Later, a storm system triggered moderate rain in the Pacific Northwest, then was essentially dry until it brought severe weather to West Texas. Late in April, a disturbance moved across the southern Gulf of Mexico and brought heavy rain to Florida. The month was cooler than normal in most of the East and warmer in the West.

May precipitation soared much above normal in the Southwest and central Rockies and from East Texas through New England. An upper air disturbance in the Southwest spawned bursts of energy that moved eastward and then northeastward and carried showers and thunderstorms with them. Elsewhere, a series of storms moved through southern Canada and the northern United States bringing frequent rains to that area. May precipitation totals of 2 to 4 inches in parts of the Southwest were five or more times the normal expected in that area. May temperatures rose higher than normal in the West but somewhat cooler elsewhere. However, both the East and the West had episodes of record high temperatures, and the northern Rockies experienced freezing weather.


TOTAL PRECIPITATION, INCHES
Spring (March—May 1979)
SCALE OF SHADES
0 - 1 Inch
1 - 2 Inches
2 - 4 Inches
4 - 12 Inches
Over 12 Inches
ALASKA
Barrow 0.2
Nome 2.0
Fairbanks 2.2
Anchorage 39.0
Juneau 7.5
Cold Bay 19.0
HAWAII
Lihue 4.0
Honolulu 8.8
Kahului 5.8
Hilo 19.3
National Weather Service, NOAA
Based on preliminary telegraphic reports


PERCENTAGE OF NORMAL PRECIPITATION
Spring (March—May 1979)
SCALE OF SHADES
Under 50 Percent
50 to 75
75 to 100
100 to 150
Over 150
ALASKA
Barrow 40
Nome 91
Fairbanks 147
Anchorage 217
Juneau 76
Cold Bay 157
Kodiak
HAWAII
Lihue 38
Honolulu 157
Kahului 121
Hilo 53
National Weather Service, NOAA
Based on preliminary telegraphic reports

## Temperature and Precipitation Data for May 1979

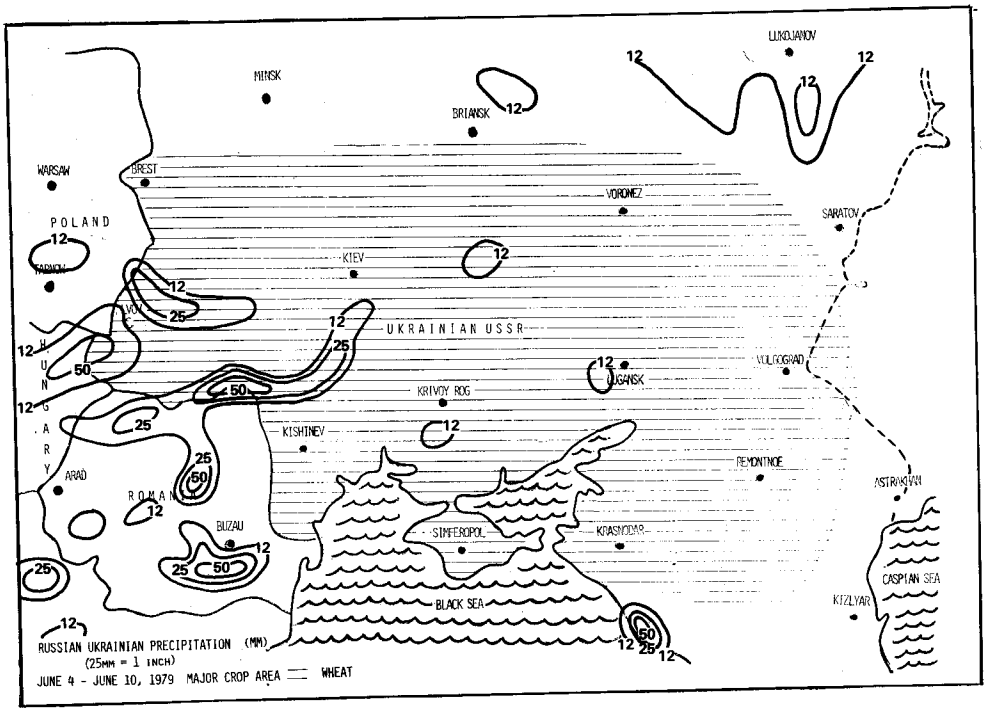
| States and Stations | Temperature °F Average | Temperature °F Departure | Precipitation Inches Total | Precipitation Inches Departure |
|---|---|---|---|---|
| ALA.Birmingham | 70 | - 1 | 6.6 | + 3.0 |
| Mobile | 73 | - 2 | 7.0 | + 2.5 |
| Montgomery | 71 | - 1 | 5.4 | + 1.9 |
| ALASKA.Anchorage | 50 | + 4 | .2 | - .4 |
| Barrow | 20 | + 1 | T | - .2 |
| Fairbanks | 50 | + 3 | .9 | + .2 |
| Juneau | 48 | + 1 | 2.5 | - .8 |
| Kodiak | 46 | + 3 | 9.4 | + 5.0 |
| Nome | 42 | + 7 | .1 | - .6 |
| ARIZ.Flagstaff | 48 | - 2 | 2.2 | + 1.6 |
| Phoenix | 78 | + 2 | .8 | + .7 |
| Tucson | 72 | - 2 | .7 | + .6 |
| Winslow | 61 | - 2 | 1.4 | + 1.1 |
| Yuma | 79 | 0 | .3 | + .3 |
| ARK.Fort Smith | 67 | - 3 | 8.0 | + 2.5 |
| Little Rock | 68 | - 2 | 9.6 | + 4.3 |
| CALIF.Bakersfield | 75 | + 5 | T | - .2 |
| Eureka | 53 | 0 | 2.3 | + .2 |
| Fresno | 71 | + 4 | .1 | - .2 |
| Los Angeles | 65 | 0 | 0 | - .1 |
| Red Bluff | 71 | + 4 | .3 | - .7 |
| San Diego | 66 | + 3 | .9 | + .7 |
| San Francisco | 60 | + 2 | .1 | - .3 |
| Stockton | 70 | + 5 | .1 | - .3 |
| COLO.Denver | 55 | - 2 | 3.5 | + .9 |
| Grand Junction | 60 | - 2 | 1.5 | + .9 |
| Pueblo | 58 | - 3 | 2.6 | + .9 |
| CONN.Bridgeport | 62 | + 4 | 4.9 | + 1.3 |
| Hartford | 64 | + 6 | 3.5 | 0 |
| D.C.Washington | 68 | + 2 | 3.6 | - .1 |
| FLA.Apalachicola | 73 | - 2 | 4.3 | + 1.5 |
| Daytona Beach | 76 | + 1 | 6.1 | + 3.4 |
| Ft. Myers | 79 | + 1 | 5.3 | + 1.3 |
| Jacksonville | 73 | - 1 | 7.5 | + 4.3 |
| Key West | 82 | + 1 | 2.2 | - .3 |
| Lakeland | -- | -- | -- | -- |
| Miami | 86 | + 8 | 5.3 | - .8 |
| Orlando | 75 | - 1 | 7.7 | + 4.8 |
| Tallahassee | 72 | - 3 | 9.2 | + 5.2 |
| Tampa | 76 | - 1 | 17.6 | +15.2 |
| W.Palm Beach | 76 | - 2 | 5.1 | - .1 |
| GA.Atlanta | 70 | + 1 | 2.4 | - 1.3 |
| Augusta | 71 | - 1 | 9.6 | + 6.2 |
| Macon | 71 | - 3 | 3.8 | + .2 |
| Savannah | 74 | + 1 | 8.5 | + 4.3 |
| HAWAII.Hilo | 74 | 0 | 4.1 | - 6.0 |
| Honolulu | 78 | + 1 | .2 | - .8 |
| Kahului | 76 | + 1 | .1 | - .5 |
| Lihue | 75 | - 1 | 1.6 | - .8 |
| IDAHO.Boise | 58 | + 1 | 1.3 | 0 |
| Lewiston | 59 | + 1 | 1.6 | 0 |
| Pocatello | 54 | 0 | .3 | - 1.0 |
| ILL.Cairo | 67 | - 2 | 6.1 | + .9 |
| Chicago | 60 | 0 | 3.4 | 0 |
| Moline | 62 | + 1 | 2.9 | - 1.0 |
| Peoria | 61 | - 1 | 2.0 | - 1.9 |
| Rockford | 59 | 0 | 1.5 | - 2.4 |
| Springfield | 64 | + 1 | 1.3 | - 2.2 |
| IND.Evansville | 64 | - 2 | 3.7 | - .7 |
| Ft. Wayne | 60 | 0 | 2.6 | - 1.3 |
| Indianapolis | 61 | - 1 | 2.2 | - 1.9 |
| South Bend | 59 | + 1 | 3.0 | - .2 |
| IOWA.Burlington | 62 | 0 | 4.3 | + .7 |
| Des Moines | 61 | 0 | 2.5 | - 1.7 |
| Dubuque | 58 | 0 | 2.2 | - 2.5 |
| Sioux City | 58 | - 3 | 4.4 | + .9 |
| KANS.Concordia | 61 | - 2 | 2.1 | - 2.1 |
| Dodge City | 61 | - 3 | 3.5 | + .4 |
| Goodland | 57 | - 2 | 4.5 | + 2.0 |
| Topeka | 63 | - 2 | 2.3 | - 1.7 |
| Wichita | 64 | - 2 | 3.1 | - .5 |
| KY.Lexington | 63 | - 2 | 4.2 | 0 |
| Louisville | 64 | - 1 | 3.6 | - .6 |
| LA.Baton Rouge | 72 | - 3 | 5.4 | + 1.1 |
| Lake Charles | 73 | - 2 | 7.4 | + 2.3 |
| New Orleans | 75 | 0 | 4.4 | + .2 |
| Shreveport | 70 | - 3 | 8.0 | + 3.0 |
| MAINE.Caribou | 55 | + 5 | 4.3 | + 1.3 |
| Portland | 55 | + 2 | 5.2 | + 1.9 |
| MD.Baltimore | 65 | + 1 | 4.2 | + .6 |
| MASS.Boston | 61 | + 2 | 4.3 | + .8 |
| Chatham | 56 | -- | 5.9 | -- |
| MICH.Alpena | 51 | 0 | 2.5 | - .2 |
| Detroit | 57 | - 1 | 2.8 | - .5 |
| Flint | 57 | + 1 | 1.6 | - 1.5 |
| Grand Rapids | 58 | + 1 | 1.4 | - 1.8 |
| Houghton Lake | 53 | 0 | 1.9 | - .9 |
| Lansing | 57 | 0 | 1.4 | - 1.9 |
| Marquette | 46 | - 2 | 2.7 | - .2 |
| Muskegon | 55 | 0 | 2.0 | - .7 |
| S. Ste. Marie | 49 | 0 | 2.2 | - .8 |
| MINN.Duluth | 47 | - 2 | 6.0 | + 2.6 |
| Internatl Falls | 46 | - 4 | 1.7 | - 1.1 |
| Minneapolis | 56 | - 1 | 4.6 | + 1.2 |
| Rochester | 55 | - 1 | 3.8 | + .3 |
| St. Cloud | 51 | - 4 | 5.2 | + 1.6 |
| MISS.Jackson | 70 | - 3 | 5.5 | + 1.1 |
| Meridian | 70 | - 2 | 5.5 | + 1.7 |
| MO.Columbia | 64 | 0 | 3.3 | - 1.4 |
| Kansas City | 64 | 0 | 3.0 | - 1.3 |
| St. Louis | 66 | 0 | 1.6 | - 2.3 |
| Springfield | 62 | - 3 | 7.4 | + 2.5 |
| MONT.Billings | 54 | - 1 | .9 | - 1.2 |
| Glasgow | 50 | - 4 | 2.5 | + 1.2 |
| Great Falls | 52 | - 1 | .7 | - 1.7 |
| Havre | 52 | - 3 | .9 | - .6 |
| Helena | 53 | + 1 | .3 | - 1.5 |
| Kalispell | 52 | + 1 | 1.6 | - .2 |
| Miles City | 54 | - 2 | 1.4 | - .7 |
| Missoula | 52 | 0 | .7 | - 1.0 |
| NEBR.Grand Island | 58 | - 3 | 4.1 | + .3 |
| Lincoln | 60 | - 2 | 3.0 | - .5 |
| Norfolk | 58 | - 2 | 5.1 | + 1.4 |
| N.Platte | 57 | - 1 | 3.0 | - .3 |
| Omaha | 60 | - 1 | 3.0 | - 1.0 |
| Valentine | 55 | - 2 | 3.2 | + .4 |
| NEV.Ely | 52 | + 2 | 1.4 | + .5 |
| Las Vegas | 75 | + 2 | .4 | + .3 |
| Reno | 57 | + 2 | .2 | - .5 |
| Winnemucca | 59 | + 5 | .3 | - .6 |
| N.H.Concord | 56 | + 1 | 4.9 | + 1.9 |
| N.J.Atlantic City | 63 | + 1 | 2.8 | - .7 |
| Trenton | 63 | + 1 | 6.2 | + 2.8 |
| N.MEX.Albuquerque | 64 | - 1 | 2.5 | + 2.0 |
| Roswell | 68 | - 1 | 1.3 | + .3 |
| N.Y.Albany | 60 | + 2 | 4.1 | + .8 |
| Binghamton | 55 | 0 | 4.3 | + .5 |
| Buffalo | 57 | + 2 | 1.6 | - 1.4 |
| New York | 63 | + 1 | 4.3 | + .9 |
| Rochester | 56 | - 1 | 3.7 | + .9 |
| Syracuse | 59 | + 2 | 3.1 | + .1 |
| N.C.Asheville | 64 | 0 | 5.3 | + 2.0 |
| Charlotte | 68 | - 1 | 4.5 | + 1.6 |
| Greensboro | 66 | - 1 | 4.5 | + 1.5 |
| Hatteras | 68 | + 1 | 6.7 | + 3.4 |
| Raleigh | 67 | 0 | 4.7 | + 1.4 |
| Wilmington | 71 | 0 | 5.3 | + 1.3 |
| N.DAK.Bismarck | 50 | - 4 | 1.1 | - 1.1 |
| Fargo | 51 | - 4 | 2.1 | - .2 |
| Williston | 49 | - 5 | 1.8 | + .2 |
| OHIO.Akron-Canton | 57 | - 2 | 5.1 | + 1.2 |
| Cincinnati | 60 | - 3 | 4.0 | + .3 |
| Cleveland | 57 | - 1 | 4.8 | + 1.3 |
| Columbus | 61 | 0 | 3.3 | - .8 |
| Dayton | 62 | 0 | 2.9 | - .9 |
| Toledo | 58 | - 1 | 3.2 | - .1 |
| Youngstown | 56 | - 2 | 4.4 | + .5 |
| OKLA.Okla. City | 66 | - 2 | 7.3 | + 2.1 |
| Tulsa | 69 | 0 | 6.2 | + 1.1 |
| OREG.Astoria | 54 | + 2 | 4.2 | + 1.5 |
| Burns | 54 | + 2 | .8 | - .2 |
| Medford | 58 | + 1 | 1.4 | 0 |
| Pendleton | 60 | + 1 | .4 | - .8 |
| Portland | 60 | + 3 | 2.4 | + .3 |
| Salem | 57 | + 1 | 2.2 | + .1 |
| PA.Allentown | 62 | + 2 | 4.9 | + 1.1 |
| Erie | 54 | - 1 | 3.7 | + .1 |
| Harrisburg | 62 | - 1 | 4.7 | + .9 |
| Philadelphia | 66 | + 3 | 4.0 | + .6 |
| Pittsburgh | 59 | - 1 | 4.5 | + .9 |
| Scranton | 59 | 0 | 5.1 | + 1.3 |
| R.I. Providence | 60 | + 3 | 7.6 | + 4.1 |
| S.C. Charleston | 72 | 0 | 8.1 | + 4.3 |
| Columbia | 69 | - 3 | 6.5 | + 3.1 |
| Greenville | 70 | + 1 | 5.7 | + 2.7 |
| S.D. Aberdeen | 53 | - 3 | 1.9 | - .7 |
| Huron | 53 | - 4 | 1.6 | - 1.2 |
| Rapid City | 54 | - 1 | 1.2 | - 1.6 |
| Sioux Falls | 55 | - 3 | 4.9 | + 1.5 |
| TENN.Chattanooga | 67 | - 2 | 9.2 | + 5.8 |
| Knoxville | 67 | - 1 | 7.2 | + 3.9 |
| Memphis | 70 | - 1 | 7.8 | + 3.4 |
| Nashville | 66 | - 3 | 8.2 | + 4.1 |
| TEX.Abilene | 70 | - 2 | 1.9 | - 2.0 |
| Amarillo | 62 | - 4 | 3.9 | + 1.1 |
| Austin | 72 | - 3 | 7.3 | + 3.3 |
| Beaumont | 73 | - 2 | 4.4 | - .5 |
| Brownsville | 77 | - 2 | .6 | - 1.9 |
| Corpus Christi | 77 | - 1 | 4.3 | + 1.1 |
| Del Rio | 76 | - 2 | .6 | - 1.8 |
| El Paso | 70 | - 2 | .2 | - .1 |
| Fort Worth | 70 | - 3 | 5.9 | + 1.4 |
| Galveston | 74 | - 2 | 3.5 | + .3 |
| Houston | 73 | - 3 | 3.8 | - 1.3 |
| Lubbock | 69 | 0 | 4.0 | + .8 |
| Midland | 71 | - 1 | 1.1 | - 1.1 |
| San Angelo | 72 | - 3 | .7 | - 2.0 |
| San Antonio | 74 | - 2 | 2.0 | - 1.1 |
| Victoria | 74 | - 3 | 6.7 | + 2.7 |
| Waco | 70 | - 5 | 9.7 | + 5.1 |
| Wichita Falls | 70 | - 2 | 4.7 | + .1 |
| UTAH.Blanding | 56 | - 1 | .9 | + .3 |
| Salt Lake City | 60 | + 2 | .8 | - .7 |
| VT.Burlington | 59 | + 4 | 3.1 | + .1 |
| VA.Lynchburg | 64 | - 1 | 3.1 | - .1 |
| Norfolk | 67 | 0 | 10.1 | + 6.8 |
| Richmond | 67 | 0 | 3.8 | + .4 |
| Roanoke | 64 | 0 | 2.7 | - .8 |
| WASH.Colville | 55 | 0 | 1.3 | - .3 |
| Omak | 59 | + 2 | .3 | - .8 |
| Quillayute | 52 | + 1 | 4.0 | - .7 |
| Seattle-Tacoma | 57 | + 2 | .9 | - .8 |
| Spokane | 55 | 0 | 1.6 | + .1 |
| Walla Walla | 62 | + 2 | .9 | - .7 |
| Yakima | 60 | + 2 | T | - .6 |
| W.VA.Beckley | 60 | + 1 | 5.0 | + 1.2 |
| Charleston | 63 | - 2 | 3.9 | + .4 |
| Huntington | 64 | - 1 | 4.7 | + .9 |
| Parkersburg | 62 | - 2 | 5.3 | + 1.7 |
| WISC.Green Bay | 53 | - 2 | 3.0 | - .1 |
| La Crosse | 58 | - 1 | 5.7 | + 2.0 |
| Madison | 57 | + 1 | 2.7 | - .7 |
| Milwaukee | 55 | + 1 | 1.8 | - 1.1 |
| WYO.Casper | 49 | - 4 | 2.3 | + .4 |
| Cheyenne | 50 | - 2 | 2.9 | + .4 |
| Lander | 51 | - 2 | 3.0 | + .4 |
| Sheridan | 50 | - 3 | 3.0 | + .5 |
| P.R.San Juan | 81 | + 2 | 12.1 | + 5.6 |

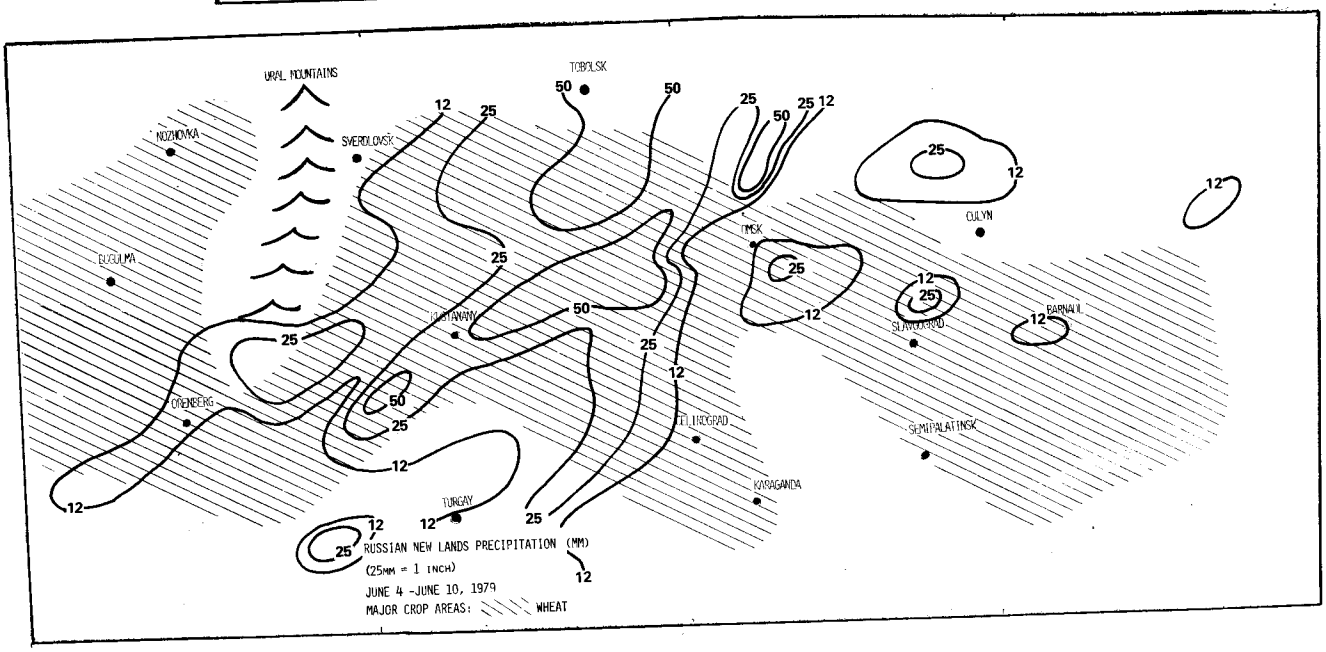
Based on 1941-70 normals

## World Weather and Crop Update

June 4 - 10

USSR. The winter grains area of the Soviet Union received below-normal moisture again this week. The good soil moisture base established in early spring has been depleted in many areas west of the Urals. Except for parts of the western Ukraine, the entire region needs a good soaking rain. Of particular concern has been the eastern Ukraine and lower Volga River region where warm and very dry conditions, commonly referred to as a "sukhovei", developed on May 25 and persisted into early June. Cooler air has replaced the very dry weather, but rainfall amounted to less than 10 mm during the week. Normal to above-normal moisture fell in the upper Volga River region and in the New Lands. Soil moisture conditions in the New Lands should range from good to excellent.



CHINA. The winter grain harvest was likely interrupted as well-above-normal moisture fell over much of the region. Amounts generally ranged from 25 to 75 mm. In the rice-tea region, rainfall amounts ranged from near normal (25 to 40 mm) in the east to well above normal in the western portions where 50 to 150 mm fell. Near-normal moisture fell across the southern double crop rice region.

AUSTRALIA. Winter grain planting continues in Australia with light showers appearing again. Rainfall totals were generally less than 10 mm, near normal for this time of year.

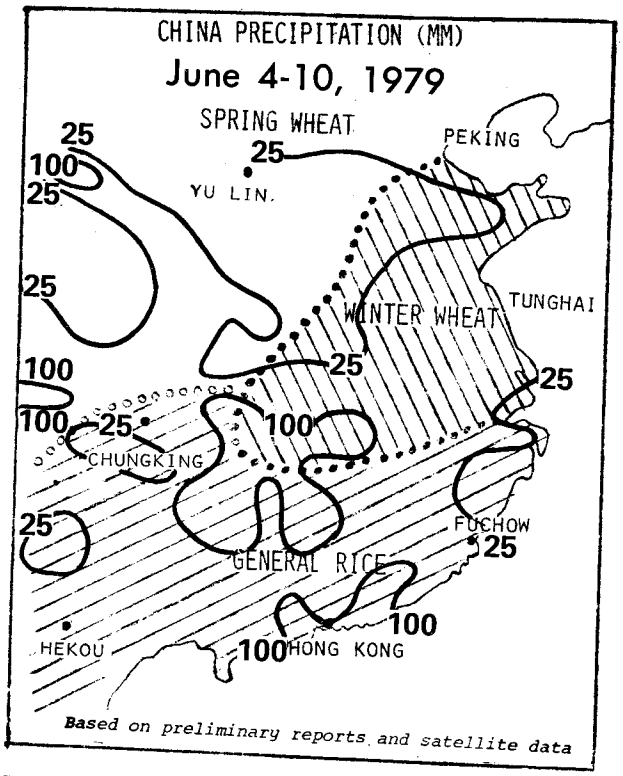
INDIA-SOUTHEAST ASIA. The summer monsoon has not begun in India, and generally dry conditions spanned the country the past week. Agriculturally, this is a rather quiet time with the wheat harvest conplete. Very hot and dry conditions in the northeast have caused some losses to the rice crop. Monsoon activity is definitely increasing in Assam and Bangladesh where the first good rains of the summer season fell. All of Bangladesh received at least 25 mm of moisture and more than 100 mm fell in the southeastern quadrant (serious drought conditions had been reported before the rains). Good rains also fell over most of Burma. The general rain activity which has been occurring over the rest of Southeast Asia continued.

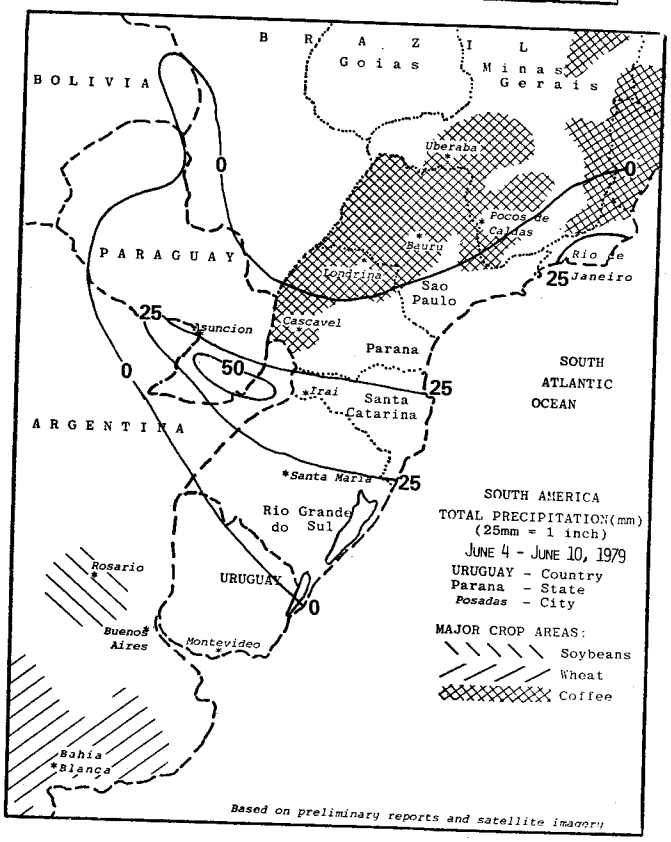
AFRICA. Normal to well-above-normal moisture fell across much of central Africa with rainfall in the Sahel reaching all the way to the western coast. Rainfall through most of the region this spring has been normal to above normal.

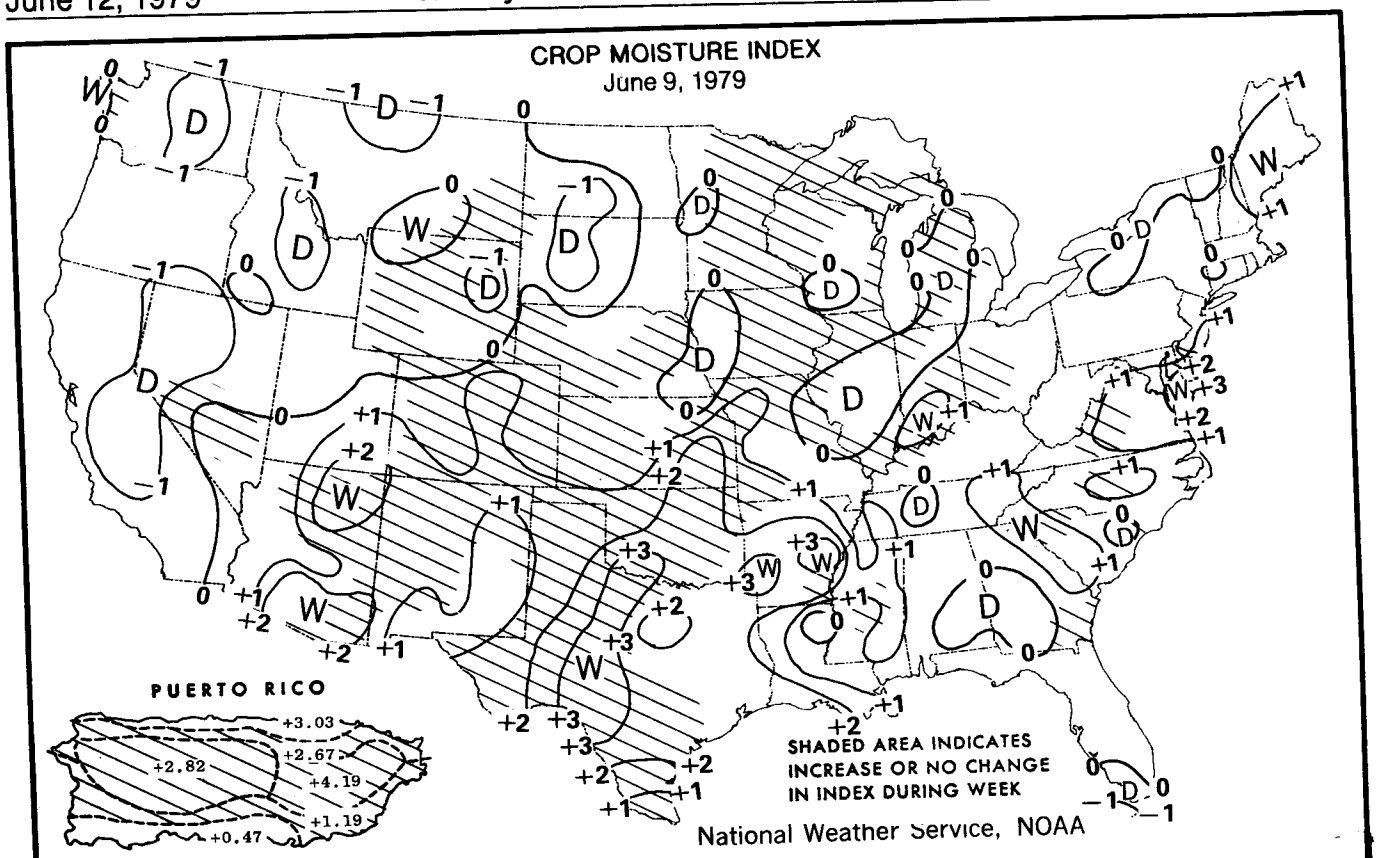
EUROPE. Growing conditions in western Europe were generally favorable with clear skies the general rule. Less than 5 mm fell in France and Spain. With the current excellent soil moisture supplies, this provided a good weather for crop development. West Germany received 10 to 30 mm with heaviest amounts in the north and south. Dryness has been developing over eastern Europe over the past several weeks. Most of the region has received less than half its normal rainfall in the past 30 days. The past week's rainfall was generally below normal as well with amounts in the range of 0 to 15 mm. Southern Poland and much of Czechoslovakia neared normal with 15 to 20 mm. The only above-normal moisture occurred in central Romania.

SOUTH AMERICA. Rainfall across Brazil and Argentina was limited to the southern portions of Brazil where 25 to 30 mm across northern Rio Grande do Sul. Temperatures have warmed, and there has been no serious threat to coffee since the freezing temperatures of June 1.

MEXICO. Rains increased significantly in the southern portion of the major exporting citrus area. Jalapa reported 199 mm and Rio Verde had 123 mm. Only a few light showers fell in northern orchards around Montemorelos where dryness is a problem in nonirrigated sections. The strawberry fields of Zamora and Irapuato were dotted with light rains of about 2 mm. However, 29 mm fell at Morelia. West coast vegetable areas did not report any rainfall, but satellite photos showed considerable cloudiness with possible showers south and east of Culican in the higher elevations. Temperature maxima generally averaged 28 to 32°C in the major agricultural areas; minima were 14 to 18°C inland and 20 to 25°C in the humid coastal sections.






The Crop Moisture Index measures the degree to which moisture requirements of growing crops were met during the previous week. The index is computed from average weekly values of temperature and precipitation. These values are used to calculate the potential moisture demand. Taking into account the previous soil moistue condition and current rainfall, the actual moisture loss is determined.

If the potential moisture demand, or potential evapotranspiration, exceeds available moisture supplies, actual evapotranspiration is reduced and the CMI gives a negative value. However, if moisture meets or exceeds demand the index is positive.

Shaded areas indicate the index was unchanged or increased from the previous week's value; soils dried in the unshaded areas. Centers of positive and negative areas are identified by W for wet and D for dry.

Local moisture conditions may vary because of differences in rainfall distribution or soil types. The type of agriculture and stage of crop development must be considered when assessing the impact of moisture conditions based on the Crop Moisture Index. Some general guidelines follow.

| UNSHADED AREAS: | | | INDEX DECREASED |
|---|---|---|---|
| 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 | EXTRFMELY DRY, MOST CROPS RUINED |

| SHADED AREA: | | | INDEX INCREASED OR DID NOT CHANGE |
|---|---|---|---|
| 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 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 CONTINUED, RAIN URGENTLY NEEDED |
| BELOW | | -4.0 | NOT ENOUGH RAIN, STILL EXTREMELY DRY |

**THE AREA OF EXCESSIVE CROP MOISTURE IN THE ARKANSAS AND MISSISSIPPI DELTA AREA CONTINUES ALTHOUGH SOME DRYING HAS OCCURRED. HEAVY RAIN AND SHOWERS IN CENTRAL WEST TEXAS AND SOUTHWEST OKLAHOMA HAS BROUGHT A LARGE AREA INTO THE EXCESSIVE CROP MOISTURE CATEGORY. THE SLIGHTLY DRY AREAS IN THE WEST ARE SLOWLY EXPANDING IN AREA AND INTENSITY. MOST OF EASTERN U.S. IS BEGINNING TO DRY SOMEWHAT.**

(continued from page 3)

melons; other crops held steady or declined. Texas rains held field activity to a minimum curtailing harvests and land preparation for fall planting. California vegetable growers harvested a wide array of crops, however, a lack of trucks limited movement from some areas. Market tomato harvest advanced in the desert; processing tomatoes progressed well.

PASTURES & LIVESTOCK: Pastures generally rated good or better, although drying conditions in the West began deteriorating rangelands. New Mexico was an exception where widespread rains kept grasslands in good condition. Drying winds caused grass fires in parts of California. Hay crops grew well, although rains hampered cutting and reduced quality of curing hay. Livestock generally rated good as herds moved to summer ranges.

Agricultural Weather Facility
USDA South Bldg., Room 1248
Washington, DC 20250

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# SEEDING PROGRESS

FOR WEEK ENDING JUNE 10

SOYBEANS

| | 1979 | 1978 | AVG. |
|---|---|---|---|
| ALA | 77 | 72 | 74 |
| ARK | 26 | 62 | 59 |
| GA | 80 | 79 | 75 |
| ILL | 91 | 70 | 79 |
| IND | 92 | 85 | 75 |
| IOWA | 98 | 88 | 92 |
| KANS | 55 | 45 | 55 |
| KY | 50 | 55 | 78 |
| LA | 72 | 78 | 73 |
| MICH | 85 | 80 | 80 |
| MINN | 93 | 94 | 95 |
| MISS | 47 | 67 | 64 |
| MO | 70 | 39 | 65 |
| NEBR | 95 | 90 | 90 |
| NC | 63 | 70 | 73 |
| OHIO | 95 | 80 | 95 |
| SC | 78 | 73 | 74 |
| TENN | 47 | 61 | 67 |
| 18 STATES | 76 | 71 | 77 |

THESE 18 STATES PRODUCED 95% OF THE 1978 SOYBEAN CROP.

COTTON

| | 1979 | 1978 | AVG. |
|---|---|---|---|
| ALA | 100 | 100 | 100 |
| ARIZ | 100 | NA | NA |
| ARK | 100 | 100 | 100 |
| CALIF | 100 | 100 | NA |
| GA | 100 | NA | NA |
| LA | 100 | 100 | 100 |
| MISS | 100 | 100 | 100 |
| MO | 94 | 100 | 100 |
| N MEX | 100 | NA | NA |
| NC | 100 | 100 | 100 |
| OKLA | 60 | 54 | 75 |
| SC | 100 | 100 | 100 |
| TENN | 100 | 100 | 100 |
| TEX | 82 | 82 | 91 |
| 14 STATES | 90 | 89 | 95 |

THESE 14 STATES PRODUCED 99% OF THE 1978 COTTON CROP.

GRAIN SORGHUM

| | 1979 | 1978 | AVG. |
|---|---|---|---|
| COLO | 72 | 91 | 79 |
| KANS | 60 | 55 | 55 |
| MO | 69 | 43 | 68 |
| NEBR | 95 | 90 | 90 |
| OKLA | 47 | 54 | 68 |
| S DAK | 78 | 53 | 72 |
| TEX | 87 | 88 | 90 |
| 7 STATES | 75 | 72 | 75 |

THESE 7 STATES PRODUCED 92% OF THE 1978 GRAIN SORGHUM CROP.

RICE

| | 1979 | 1978 | AVG. |
|---|---|---|---|
| ARK | 88 | 98 | 97 |
| CALIF | 99 | 97 | NA |
| LA | 100 | 100 | 100 |
| MISS | 97 | 100 | 98 |
| TEX | 100 | 100 | 100 |
| 5 STATES | 96 | 100 | 100 |

THESE 5 STATES PRODUCED 99% OF THE 1978 RICE CROP.

SPRING WHEAT

| | 1979 | 1978 | AVG. |
|---|---|---|---|
| IDAHO | 100 | 100 | 100 |
| MINN | 95 | 99 | 94 |
| MONT | 100 | 100 | 100 |
| N DAK | 96 | 98 | 97 |
| S DAK | 100 | 100 | 100 |
| 5 STATES | 95 | 96 | 95 |

THESE 5 STATES PRODUCED 95% OF THE 1978 SPRING WHEAT CROP EXCLUDING DURUM.

WINTER WHEAT HEADED

| | 1979 | 1978 | AVG. |
|---|---|---|---|
| CALIF | 100 | NA | NA |
| COLO | 75 | NA | NA |
| IDAHO | 20 | 20 | NA |
| ILL | 100 | 100 | 100 |
| IND | 100 | 85 | 100 |
| KANS | 100 | 100 | 100 |
| MO | 94 | 92 | 100 |
| MONT | 0 | 0 | 0 |
| NEBR | 75 | 95 | NA |
| OHIO | NA | 85 | 95 |
| OKLA | 100 | 100 | 100 |
| OREG | 80 | NA | NA |
| S DAK | 33 | 38 | 66 |
| TEX | 100 | NA | NA |
| WASH | 56 | 61 | NA |

NA NOT AVAILABLE