

WEEKLY WEATHER AND CROP BULLETIN

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration,
National Weather Service

U.S. DEPARTMENT OF AGRICULTURE
Statistical Reporting Service and World Agricultural Outlook Board

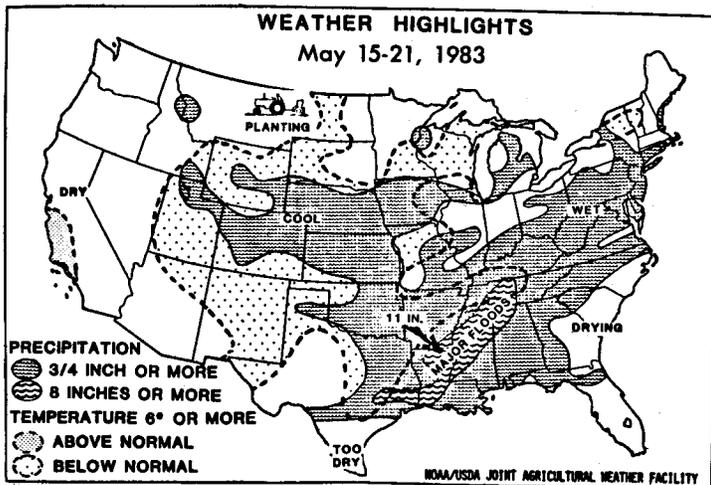
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WASHINGTON, D.C.

May 24, 1983

National Weather Summary

May 15 to 21



of Mexico streamed northward toward the new storm and triggered showers and thunderstorms from eastern Texas through the central Plains and eastward into Missouri and through Iowa to northern Illinois. A few showers fell in the northern Rockies and Plains.

WEDNESDAY... Showers were extensive in the northern Rockies and the northern High Plains. Occasional snow continued in the central Rockies and central High Plains, and showers and thunderstorms covered the central Plains and moved eastward through the Great Lakes States to the Ohio Valley. Gulf moisture caused showers and thunderstorms from eastern Texas to Georgia and northward to meet the other shower area. Tornadoes, hail, and heavy rain covered the area from central Louisiana to central Kentucky. Rains in excess of 5 inches caused extensive flooding from northern Louisiana through Mississippi to northwestern Alabama.

THURSDAY... Severe weather with heavy downpours of rain reached from eastern Texas through northern Louisiana, south-central Mississippi and Alabama, and into the southern Appalachians. Tornadoes and large hail were scattered throughout the area. Most rivers in the area were at or above flood stage causing extensive lowland flooding. Lighter showers and thunderstorms covered most of the eastern third of the Nation. Showers were also scattered through the central Plains and Rockies and the northern Plains to the Great Lakes region.

FRIDAY... A cold front sprawled from New England to southern Texas and triggered showers and thunderstorms along its entire length. Severe weather again peppered a large area with tornadoes, hail, and heavy rain. The storms hit from southeastern Texas to central Tennessee and eastward through the southern Appalachians. Flooding continued from southeastern Texas to central Tennessee. Heavy showers and thunderstorms covered the central Plains with lighter showers over the northern Plains.

(continued on p. 6)

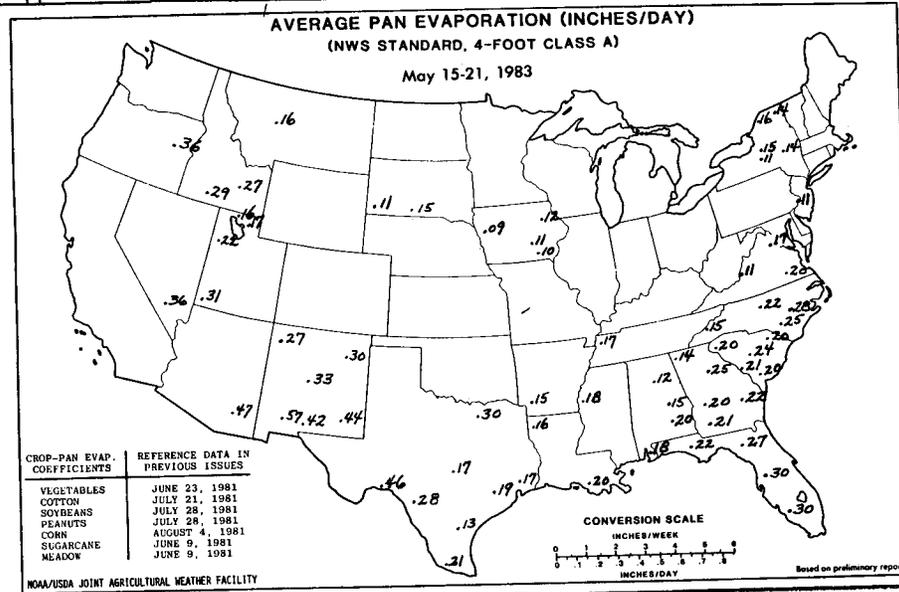
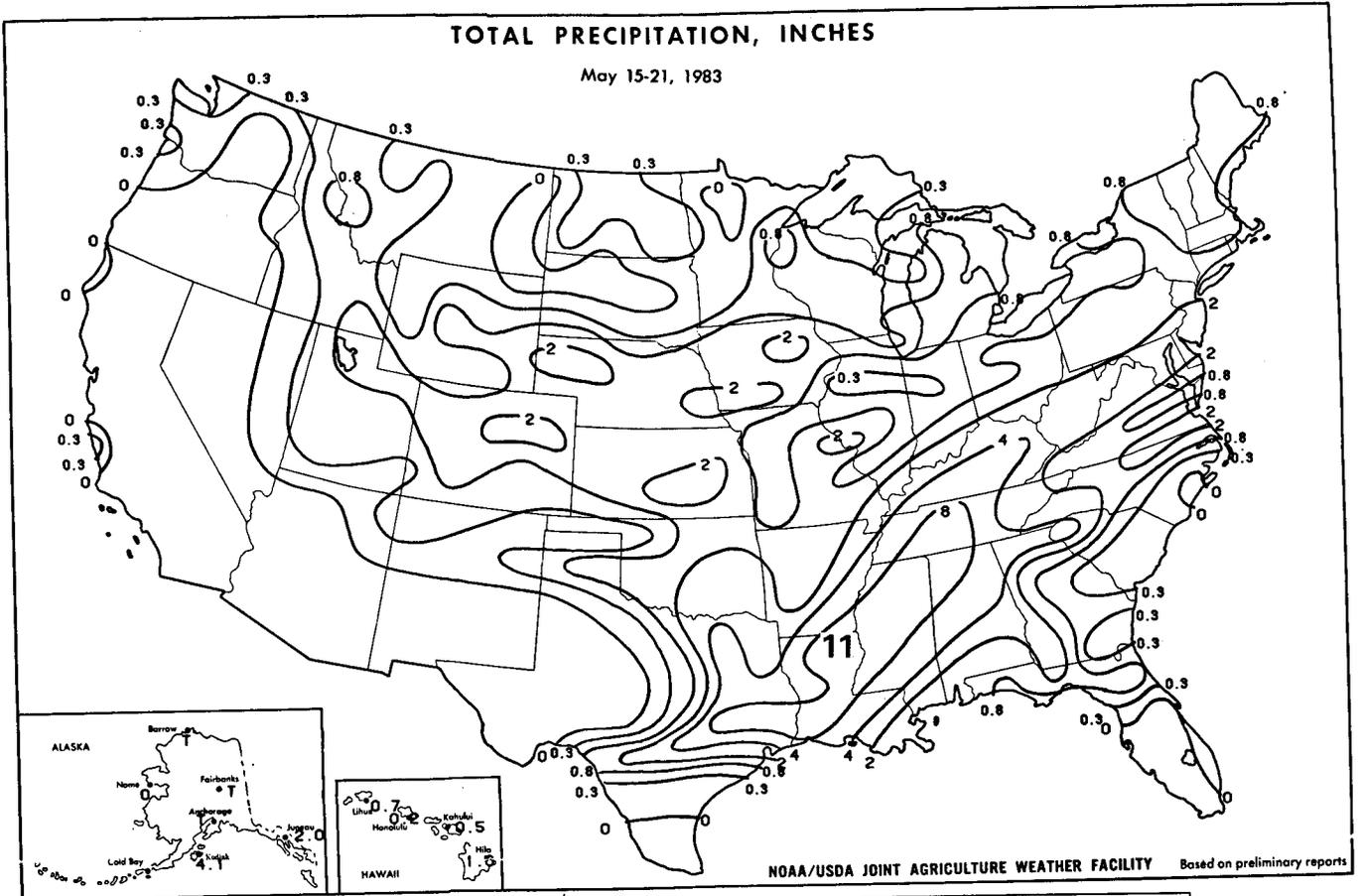
HIGHLIGHTS: Rain fell nearly every day over the area east of the Rockies. Severe weather triggered tornadoes, hail, and heavy downpours from eastern Texas through the lower Mississippi and Tennessee Valleys and the Gulf States to western Georgia. Severe flooding throughout this area covered many newly planted crop areas. Snow and cold rain early in the week stressed young livestock from eastern Colorado into Wyoming. Temperatures averaged cooler than normal over most of the Nation. Average temperatures for the week were 9 to 12° colder than normal from the central Rockies through the central Plains.

SUNDAY... A slow-moving cold front produced showers and thunderstorms from eastern Texas to western Georgia and northward to New England. Severe storms caused tornadoes and heavy rain from central Louisiana through northern Alabama, and moderate rain from northern Alabama into West Virginia. Lighter showers covered the northwest corner of the Nation to the northern Rockies and spread to the central Rockies and parts of the central Plateau. Snow was widespread in the higher elevations of the mountains.

MONDAY... The cold front moved through New England but lingered in the mid-Atlantic States and through southern Georgia and northern Florida. Moderate to heavy rain fell in Georgia, Florida, and from western North Carolina to southern New England. Another storm, developing in the central Rockies, produced showers and thunderstorms in the northern part of the central Plains with rain and snow in the central and northern Rockies.

TUESDAY... The late winter storm developing in north-eastern Colorado produced blizzard conditions there and in southeastern Wyoming. Moisture from the Gulf

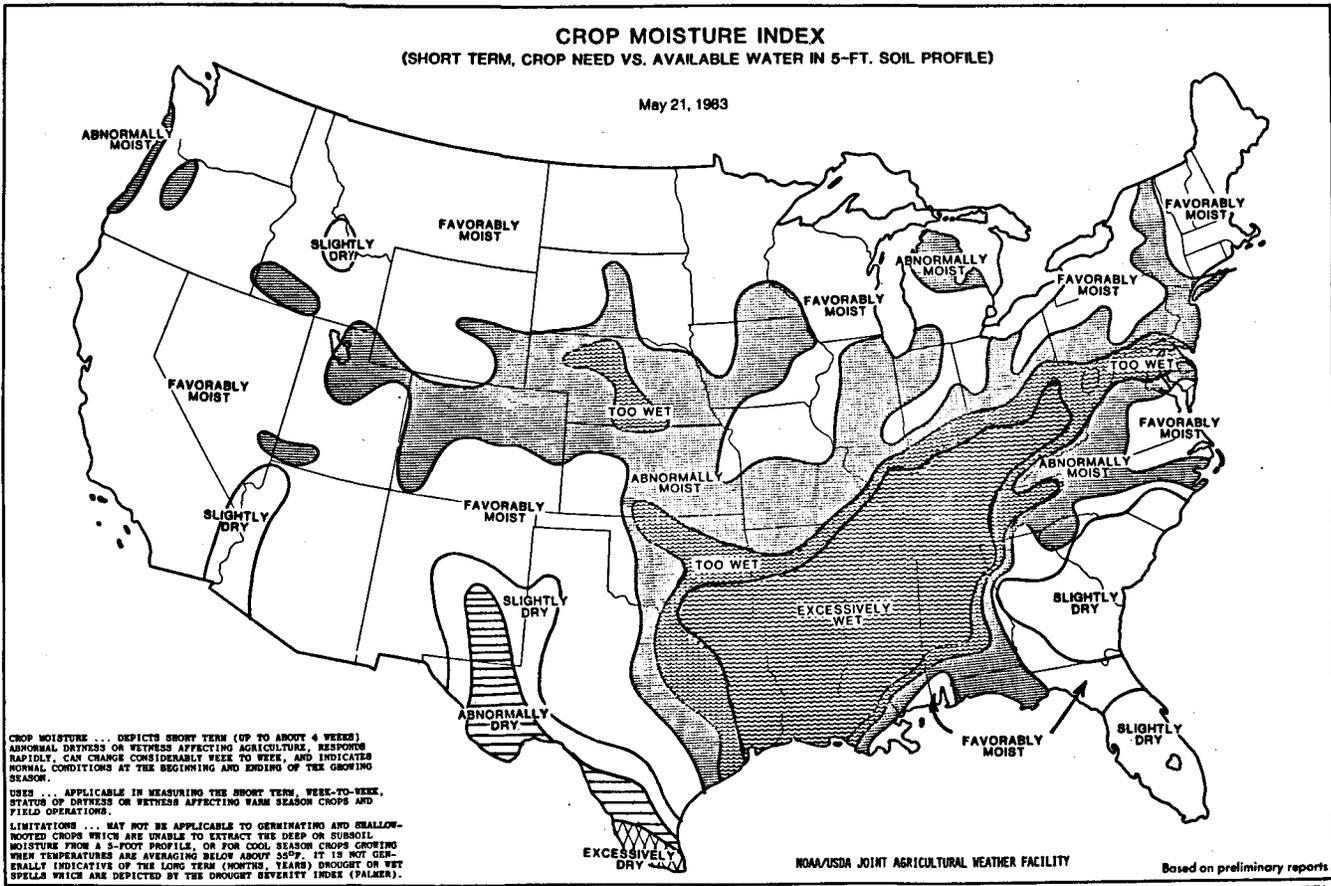
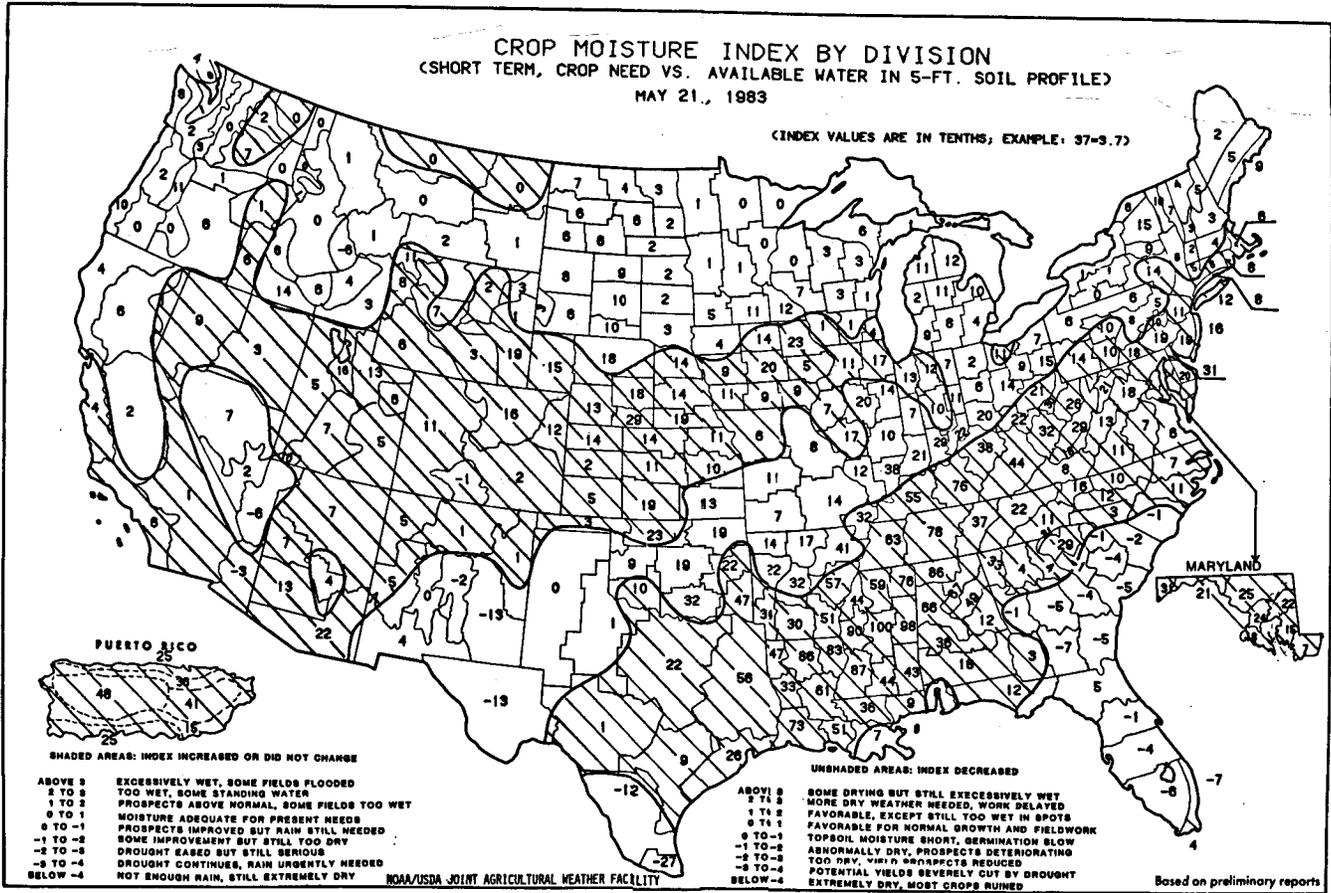
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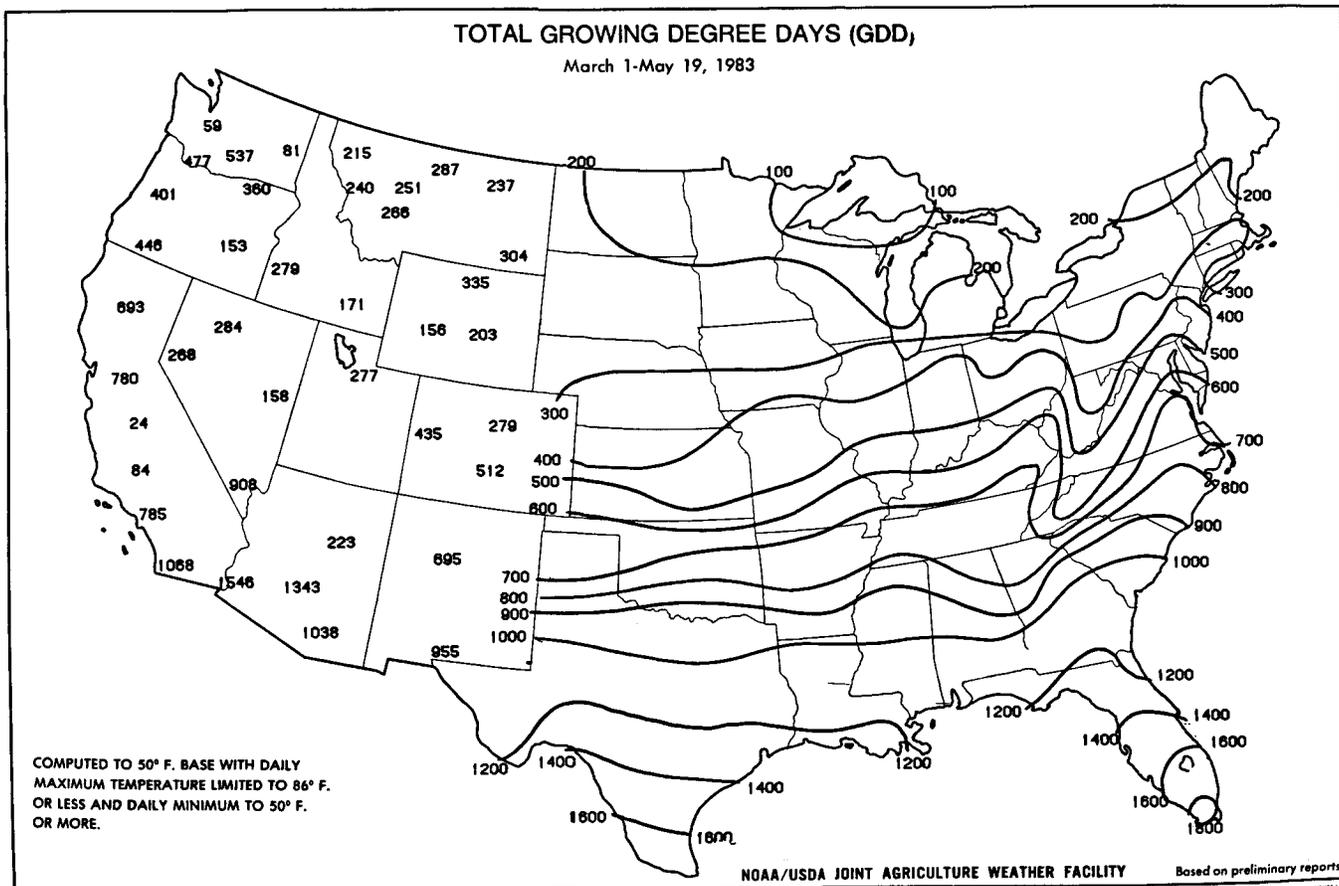
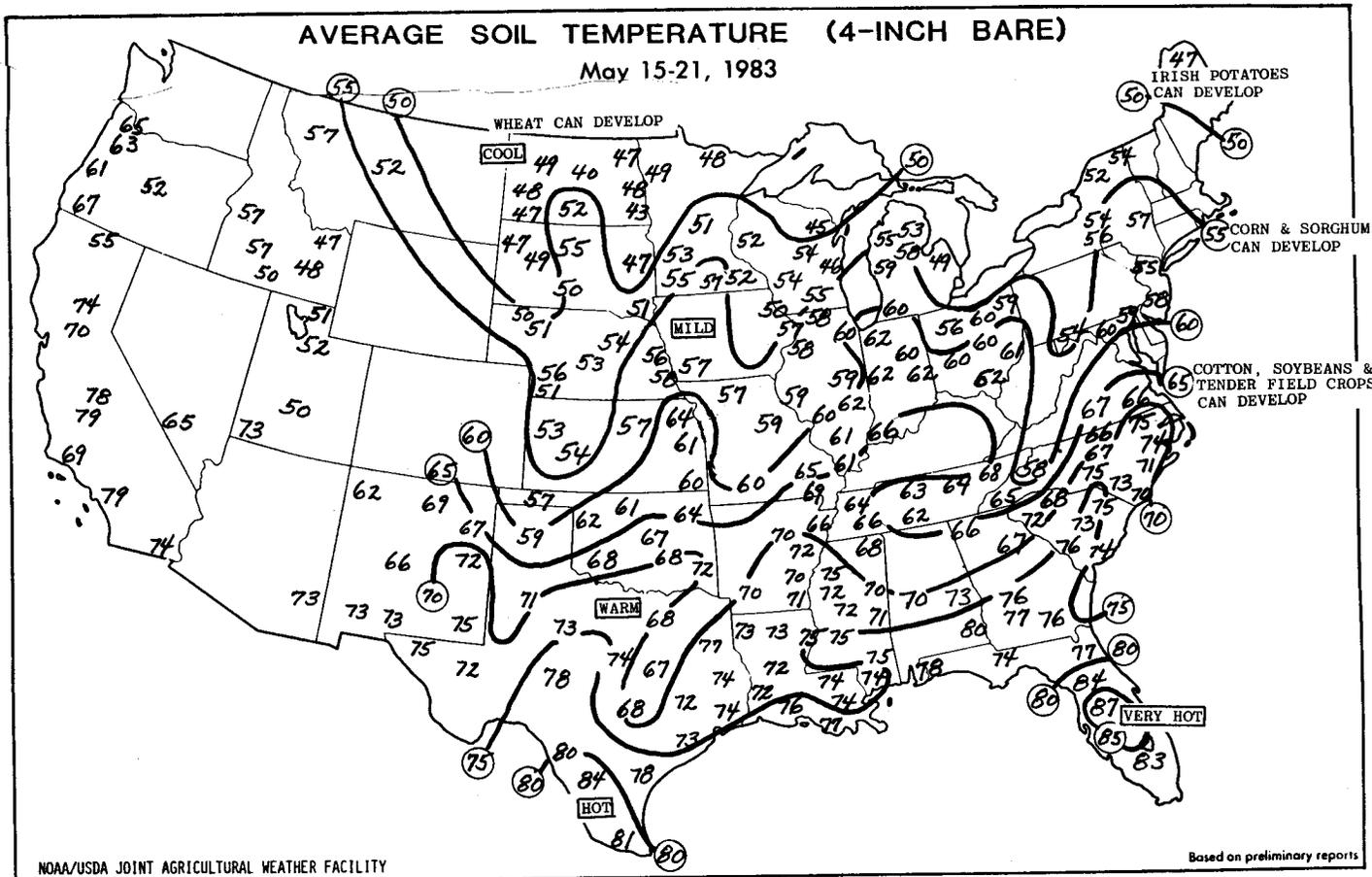


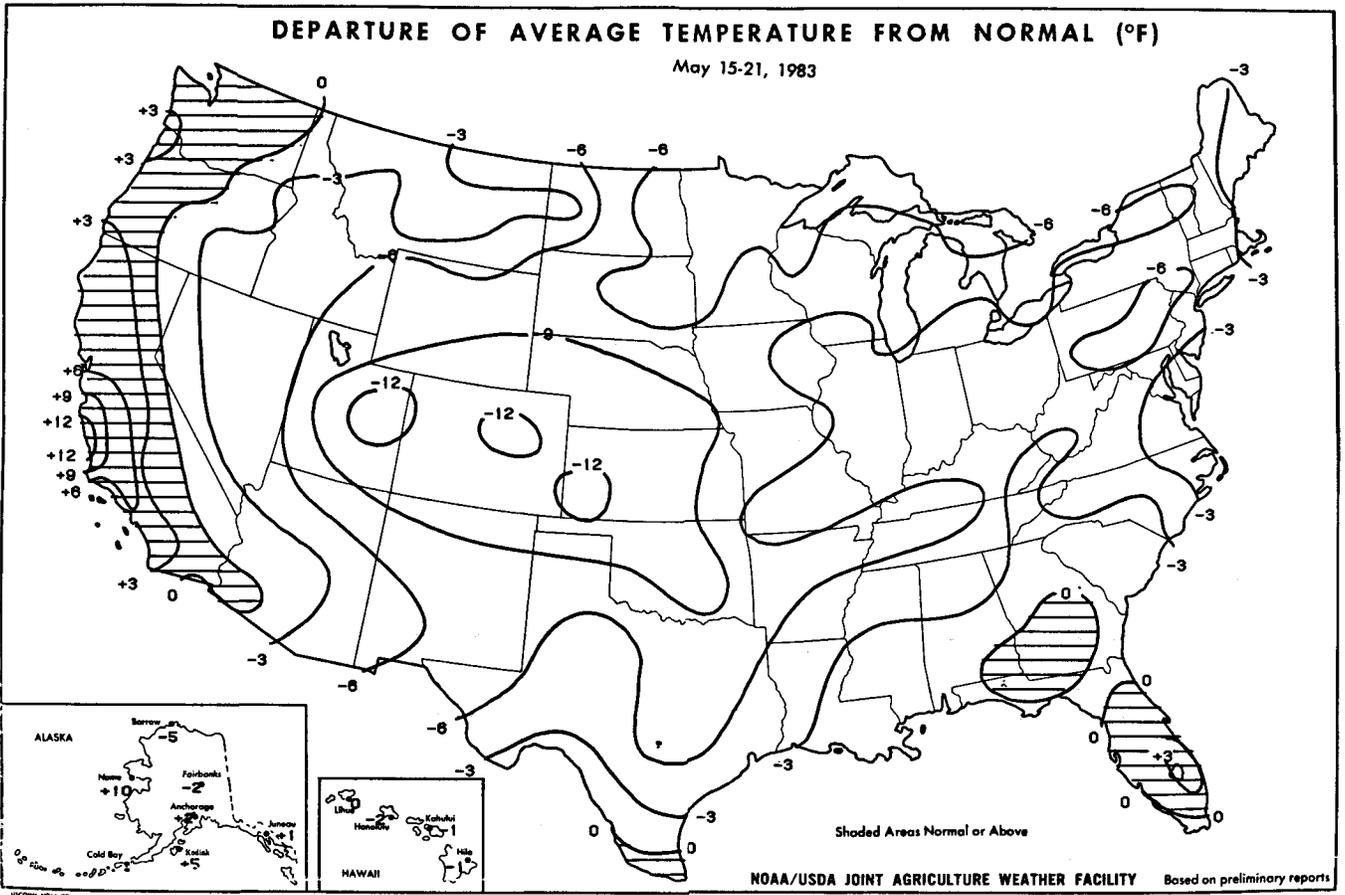
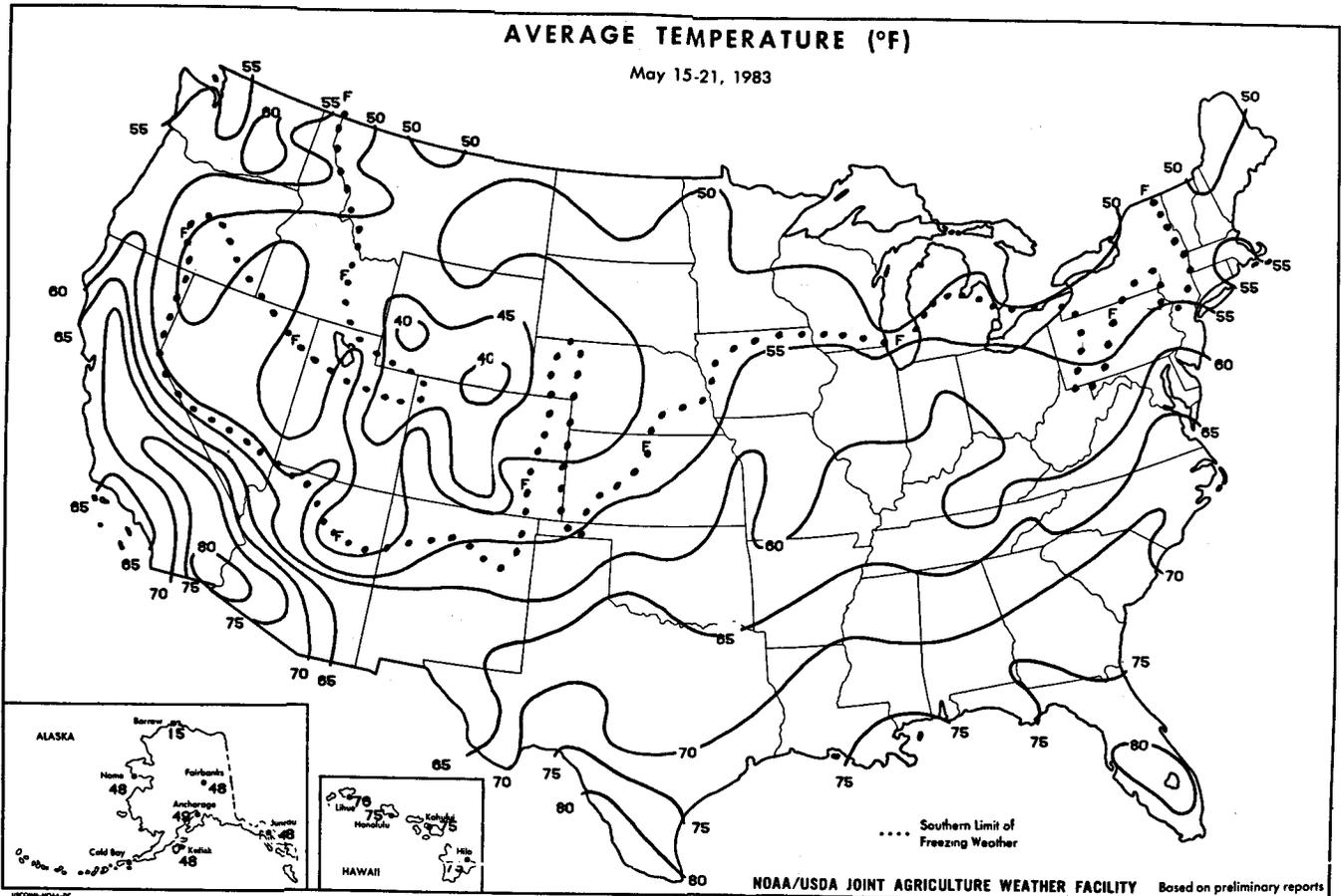
International Weather and Crop Summary (continued from back cover)



MEXICO...Dry weather continuing over most of the country favored field activities but further reduced soil moisture and reservoir supplies. Temperatures were unseasonably warm over the Northeast and caused considerable stress on nonirrigated citrus, field crops, and rangeland vegetation. In contrast, slightly cooler than normal temperatures covered the north-central region. Tropical showers and widespread cloudiness were drifting northward over the eastern Pacific Ocean, but the rainy season activity was still well south of Acapulco.







Weather Data for the Week Ending May 21, 1983

| STATES AND STATIONS | TEMPERATURE °F | | | | | | PRECIPITATION | | | | | | RELATIVE HUMIDITY, PERCENT | | NUMBER OF DAYS | | | | |
|---------------------------|--------------------|--------------------|-----------------|----------------|---------|--------------------------|----------------------|--------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|--------------------|--------------------|--------------|--------------|---------------------|---------------------|
| | AVERAGE MAXIMUM | AVERAGE MINIMUM | EXTREME HIGH | EXTREME LOW | AVERAGE | DEPARTURE FROM NORMAL | WEEKLY TOTAL, IN. | DEPARTURE FROM NORMAL | GREATEST IN 24-HOUR, IN. | TOTAL, IN., SINCE Feb. 27 | PCT. NORMAL SINCE Feb. 27 | TOTAL, IN., SINCE Jan. 1 | PCT. NORMAL SINCE Jan. 1 | AVERAGE MAXIMUM | AVERAGE MINIMUM | TEMPERATURE | | PRECIPITATION | |
| | | | | | | | | | | | | | | | | 90 AND ABOVE | 32 AND BELOW | .01 INCH OR MORE | .50 INCH OR MORE |
| AL BIRMINGHAM | 74 | 60 | 82 | 46 | 67 | -3 | 7.3 | -6.2 | 3.3 | 22.1 | 132 | 33.3 | 132 | 92 | 64 | 0 | 0 | 6 | 2 |
| MOBILE | 80 | 66 | 82 | 54 | 73 | -2 | 1.1 | -2 | .7 | 23.5 | 133 | 38.4 | 149 | 88 | 60 | 0 | 0 | 3 | 1 |
| MONTGOMERY | 79 | 63 | 85 | 52 | 71 | -2 | 2.3 | -1.4 | 1.2 | 24.8 | 171 | 37.6 | 172 | 88 | 58 | 0 | 0 | 3 | 2 |
| AK ANCHORAGE | 56 | 42 | 61 | 36 | 49 | 2 | T | -1 | T | 1.5 | 100 | 2.0 | 63 | 79 | 45 | 0 | 0 | 2 | 0 |
| BARROW | 19 | 11 | 25 | 7 | 15 | -5 | T | 0 | T | .2 | 29 | .3 | 25 | 92 | 72 | 0 | 0 | 7 | 1 |
| FAIRBANKS | 58 | 37 | 66 | 30 | 48 | -2 | T | -1.1 | T | .4 | 36 | .8 | 38 | 50 | 19 | 0 | 2 | 1 | 0 |
| JUNEAU | 52 | 45 | 58 | 42 | 4.8 | 1 | 2.0 | 1.2 | .9 | 6.4 | 66 | 11.7 | 72 | 94 | 70 | 0 | 0 | 6 | 1 |
| KODIAK | 53 | 43 | 61 | 40 | 4.8 | 5 | 4.1 | 2.3 | 1.9 | 20.1 | 130 | 36.8 | 152 | 91 | 69 | 0 | 0 | 5 | 2 |
| NOME | 57 | 38 | 67 | 30 | 4.8 | 10 | 0 | -1.1 | 0 | 1.6 | 76 | 1.8 | 50 | 54 | 26 | 0 | 2 | 0 | 0 |
| AZ PHOENIX | 92 | 62 | 97 | 58 | 77 | -1 | 0 | 0 | 0 | 3.3 | 236 | 5.2 | 193 | 33 | 8 | 6 | 0 | 0 | 0 |
| PRESCOTT | 70 | 42 | 76 | 37 | 56 | -2 | 0 | -1 | 0 | 3.4 | 131 | 4.9 | 94 | 58 | 20 | 0 | 0 | 0 | 0 |
| TUCSON | 86 | 55 | 91 | 49 | 70 | -3 | 0 | 0 | 0 | 1.5 | 107 | 4.2 | 150 | 28 | 8 | 1 | 0 | 0 | 0 |
| YUMA | 96 | 67 | 103 | 63 | 81 | 3 | 0 | 0 | 0 | .2 | 50 | 1.3 | 144 | 32 | 10 | 6 | 0 | 0 | 0 |
| AR FORT SMITH | 71 | 53 | 77 | 47 | 62 | -8 | 2.0 | .9 | 1.3 | 8.9 | 72 | 12.0 | 72 | 93 | 57 | 0 | 0 | 2 | 2 |
| LITTLE ROCK | 71 | 57 | 81 | 49 | 64 | -7 | 1.8 | -1 | 1.1 | 18.4 | 119 | 22.3 | 100 | 92 | 68 | 0 | 0 | 4 | 1 |
| GA BAKERSFIELD | 89 | 57 | 98 | 50 | 73 | 2 | 0 | -1 | 0 | 3.1 | 148 | 6.6 | 183 | 61 | 20 | 3 | 0 | 0 | 0 |
| EUREKA | 63 | 49 | 71 | 43 | 56 | 3 | .1 | -.3 | .1 | 17.3 | 171 | 35.1 | 163 | 89 | 63 | 0 | 0 | 0 | 0 |
| FRESNO | 90 | 56 | 98 | 49 | 73 | 5 | 0 | -1 | 0 | 8.2 | 228 | 16.3 | 243 | 72 | 19 | 4 | 0 | 0 | 0 |
| LOS ANGELES | 71 | 57 | 84 | 55 | 64 | 2 | 0 | 0 | 0 | 9.8 | 297 | 19.6 | 248 | 83 | 56 | 0 | 0 | 0 | 0 |
| RED BLUFF | 87 | 58 | 96 | 52 | 73 | 5 | 0 | -1 | 0 | 15.7 | 314 | 28.9 | 243 | 59 | 21 | 3 | 0 | 0 | 0 |
| SACRAMENTO | 85 | 55 | 91 | 51 | 70 | 4 | 0 | 0 | 0 | 12.1 | 269 | 21.4 | 210 | 79 | 26 | 1 | 0 | 0 | 0 |
| SAN DIEGO | 75 | 62 | 86 | 60 | 68 | 5 | 0 | -1 | 0 | 8.9 | 297 | 14.2 | 233 | 82 | 54 | 0 | 0 | 0 | 0 |
| SAN FRANCISCO | 74 | 51 | 86 | 47 | 63 | 5 | 0 | -1 | 0 | 13.1 | 252 | 25.9 | 219 | 85 | 42 | 0 | 0 | 0 | 0 |
| CO DENVER | 55 | 36 | 69 | 28 | 45 | -12 | 2.1 | 1.5 | 1.1 | 9.6 | 181 | 9.8 | 166 | 91 | 49 | 0 | 2 | 4 | 1 |
| GRAND JUNCTION | 64 | 40 | 74 | 35 | 52 | -11 | 1.4 | 1.2 | .9 | 4.5 | 196 | 5.7 | 168 | 95 | 42 | 0 | 0 | 5 | 1 |
| PUEBLO | 65 | 39 | 73 | 36 | 52 | -10 | .7 | .4 | .6 | 4.2 | 135 | 4.8 | 137 | 84 | 32 | 0 | 0 | 2 | 1 |
| CT BRIDGEPORT | 61 | 47 | 68 | 37 | 54 | -5 | 1.3 | .6 | .5 | 17.1 | 157 | 29.3 | 190 | 86 | 58 | 0 | 0 | 5 | 0 |
| HARTFORD | 65 | 44 | 76 | 34 | 55 | -6 | 1.1 | .4 | .5 | 17.2 | 148 | 26.6 | 157 | 83 | 47 | 0 | 0 | 5 | 1 |
| DC WASHINGTON | 74 | 55 | 86 | 43 | 64 | -2 | 3.2 | 2.4 | 1.9 | 15.3 | 159 | 20.3 | 145 | 87 | 55 | 0 | 0 | 4 | 2 |
| FL APALACHICOLA | 82 | 66 | 84 | 60 | 74 | -1 | T | -.6 | T | 17.8 | 168 | 26.9 | 166 | 87 | 66 | 0 | 0 | 1 | 0 |
| DAYTONA BEACH | 84 | 68 | 88 | 58 | 76 | 0 | T | -.7 | T | 14.1 | 178 | 22.6 | 184 | 91 | 58 | 0 | 0 | 1 | 0 |
| JACKSONVILLE | 83 | 66 | 88 | 62 | 75 | 0 | .4 | -.7 | .3 | 13.9 | 124 | 25.3 | 153 | 96 | 62 | 0 | 0 | 2 | 0 |
| KEY WEST | 83 | 78 | 85 | 77 | 80 | -1 | T | -.8 | T | 8.7 | 161 | 29.8 | 351 | 79 | 64 | 0 | 0 | 0 | 0 |
| MIAMI | 87 | 74 | 88 | 71 | 80 | 2 | T | -1.5 | T | 7.5 | 77 | 18.2 | 139 | 79 | 53 | 0 | 0 | 0 | 0 |
| ORLANDO | 89 | 70 | 90 | 65 | 79 | 1 | T | -.9 | T | 9.8 | 114 | 19.7 | 149 | 96 | 47 | 2 | 0 | 1 | 0 |
| TALLAHASSEE | 85 | 64 | 86 | 58 | 75 | 0 | 2.5 | 1.3 | 2.5 | 24.5 | 166 | 34.4 | 156 | 94 | 54 | 0 | 0 | 1 | 1 |
| TAMPA | 88 | 73 | 91 | 69 | 80 | 3 | 0 | -.8 | 0 | 11.0 | 129 | 19.1 | 148 | 96 | 56 | 2 | 0 | 0 | 0 |
| WEST PALM BEACH | 84 | 75 | 88 | 73 | 80 | 1 | .7 | -.7 | .7 | 9.9 | 93 | 27.2 | 181 | 87 | 64 | 0 | 0 | 1 | 1 |
| GA ATLANTA | 75 | 59 | 83 | 49 | 67 | -3 | .9 | 0 | .5 | 13.0 | 90 | 20.7 | 95 | 94 | 60 | 0 | 0 | 3 | 0 |
| AUGUSTA | 82 | 60 | 89 | 50 | 71 | -1 | .1 | -.8 | T | 13.8 | 119 | 23.5 | 134 | 77 | 45 | 0 | 0 | 3 | 0 |
| MACON | 84 | 63 | 90 | 56 | 73 | 0 | .4 | -.7 | .4 | 11.9 | 94 | 24.9 | 127 | 90 | 53 | 1 | 0 | 2 | 0 |
| SAVANNAH | 81 | 66 | 87 | 58 | 73 | 0 | .4 | -.7 | .2 | 15.5 | 136 | 26.2 | 162 | 87 | 56 | 0 | 0 | 3 | 0 |
| HI HILO | 80 | 66 | 82 | 63 | 73 | -1 | 1.6 | -.4 | .9 | 21.1 | 56 | 22.7 | 41 | 93 | 64 | 0 | 0 | 4 | 1 |
| HONOLULU | 84 | 67 | 86 | 65 | 75 | -2 | .2 | 0 | .1 | 1.2 | 19 | 1.5 | 12 | 88 | 52 | 0 | 0 | 2 | 0 |
| KAHULUI | 84 | 65 | 88 | 60 | 75 | -1 | .5 | .4 | .5 | 1.8 | 37 | 2.4 | 23 | 85 | 56 | 0 | 0 | 1 | 1 |
| LIHUE | 81 | 70 | 82 | 66 | 76 | 0 | .7 | 0 | .6 | 3.5 | 32 | 4.3 | 21 | 78 | 58 | 0 | 0 | 2 | 1 |
| ID BOISE | 66 | 42 | 73 | 38 | 54 | -4 | T | -.3 | T | 7.2 | 200 | 10.1 | 171 | 81 | 32 | 0 | 0 | 1 | 0 |
| LEWISTON | 67 | 44 | 79 | 34 | 56 | -3 | .2 | -1 | .2 | 2.4 | 77 | 4.9 | 100 | 84 | 41 | 0 | 0 | 1 | 0 |
| POCATELLO | 59 | 39 | 70 | 33 | 49 | -5 | .8 | .5 | .4 | 5.9 | 174 | 7.5 | 153 | 82 | 40 | 0 | 0 | 3 | 0 |
| IL CHICAGO | 64 | 44 | 72 | 35 | 54 | -6 | .9 | -.2 | .6 | 14.5 | 153 | 17.3 | 148 | 92 | 52 | 0 | 0 | 4 | 1 |
| MOLINE | 67 | 49 | 73 | 38 | 58 | -4 | .3 | -.6 | .1 | 9.0 | 84 | 11.0 | 87 | 93 | 51 | 0 | 0 | 4 | 0 |
| PEORIA | 67 | 49 | 74 | 36 | 58 | -4 | .3 | -.5 | .2 | 15.6 | 151 | 17.1 | 136 | 89 | 52 | 0 | 0 | 5 | 0 |
| QUINCY | 67 | 49 | 73 | 41 | 58 | -6 | .8 | -.3 | .5 | 13.2 | 120 | 14.1 | 107 | 91 | 54 | 0 | 0 | 3 | 1 |
| ROCKFORD | 65 | 45 | 72 | 35 | 55 | -5 | .8 | -.1 | .5 | 8.3 | 78 | 10.5 | 82 | 96 | 55 | 0 | 0 | 6 | 1 |
| SPRINGFIELD | 68 | 49 | 74 | 38 | 59 | -5 | .7 | 0 | .4 | 11.8 | 116 | 13.2 | 104 | 90 | 50 | 0 | 0 | 3 | 0 |
| IN EVANSVILLE | 71 | 54 | 77 | 43 | 62 | -4 | 2.7 | 1.7 | 1.8 | 22.8 | 174 | 25.4 | 137 | 86 | 52 | 0 | 0 | 4 | 2 |
| FORT WAYNE | 69 | 48 | 76 | 40 | 59 | -2 | .6 | -.2 | .5 | 9.2 | 93 | 10.9 | 81 | 85 | 43 | 0 | 0 | 3 | 1 |
| INDIANAPOLIS | 68 | 48 | 73 | 39 | 58 | -5 | .5 | -.3 | .3 | 11.1 | 101 | 13.1 | 87 | 93 | 53 | 0 | 0 | 4 | 0 |
| SOUTH BEND | 65 | 47 | 74 | 38 | 56 | -3 | 1.1 | .5 | 1.0 | 11.2 | 110 | 12.9 | 96 | 85 | 48 | 0 | 0 | 2 | 1 |
| IA DES MOINES | 63 | 48 | 71 | 37 | 56 | -7 | 1.3 | .4 | 1.0 | 10.6 | 119 | 13.9 | 134 | 85 | 48 | 0 | 0 | 3 | 1 |
| STOUX CITY | 63 | 43 | 72 | 32 | 53 | -9 | 1.0 | .2 | .5 | 11.8 | 171 | 12.9 | 165 | 81 | 48 | 0 | 1 | 2 | 1 |
| WATERLOO | 64 | 47 | 74 | 37 | 56 | -4 | 2.1 | 1.2 | 1.5 | 11.2 | 120 | 13.4 | 129 | 92 | 53 | 0 | 0 | 4 | 1 |
| KS CONCORDIA | 62 | 44 | 65 | 35 | 53 | -11 | .9 | -.1 | .7 | 7.8 | 110 | 10.6 | 134 | 92 | 59 | 0 | 0 | 4 | 1 |
| DODGE CITY | 66 | 44 | 78 | 34 | 55 | -10 | 1.7 | .9 | 1.4 | 8.1 | 147 | 10.0 | 159 | 89 | 50 | 0 | 0 | 4 | 1 |
| GOODLAND | 59 | 38 | 72 | 31 | 49 | -11 | 1.6 | .9 | .7 | 5.9 | 137 | 7.0 | 143 | 93 | 51 | 0 | 1 | 5 | 1 |
| TOPEKA | 67 | 50 | 70 | 42 | 58 | -7 | 1.8 | .9 | .6 | 14.9 | 173 | 16.2 | 165 | 87 | 56 | 0 | 0 | 4 | 1 |
| WICHITA | 64 | 46 | 70 | 38 | 55 | -11 | 2.2 | 1.3 | 1.4 | 12.0 | 169 | 14.8 | 178 | 94 | 59 | 0 | 0 | 3 | 2 |
| KY BOWLING GREEN | 68 | 51 | 76 | 41 | 60 | -7 | 7.9 | 6.9 | 3.0 | 22.9 | 165 | 27.3 | 122 | 100 | 71 | 0 | 0 | 6 | 3 |
| LEXINGTON | 70 | 51 | 73 | 39 | 60 | -4 | 3.9 | 2.9 | 2.0 | 16.7 | 130 | 19.5 | 104 | 95 | 61 | 0 | 0 | 6 | 4 |
| LOUISVILLE | 70 | 53 | 77 | 43 | 62 | -4 | 3.2 | 2.2 | 2.0 | 18.5 | 138 | 21.5 | 113 | 88 | 52 | 0 | 0 | 4 | 1 |
| LA ALEXANDRIA | 80 | 64 | 86 | 59 | 72 | | | | | | | | | | | | | | |

Weather Data for the Week Ending May 21, 1983

| STATES AND STATIONS | TEMPERATURE °F | | | | | | PRECIPITATION | | | | | | | | RELATIVE HUMIDITY, PERCENT | | NUMBER OF DAYS | | | |
|---------------------------|--------------------|--------------------|-----------------|----------------|---------|--------------------------|----------------------|--------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|--------------------|----------------------------|------------------|----------------|---------------------|---------------------|---|
| | AVERAGE MAXIMUM | AVERAGE MINIMUM | EXTREME HIGH | EXTREME LOW | AVERAGE | DEPARTURE FROM NORMAL | WEEKLY TOTAL, IN. | DEPARTURE FROM NORMAL | GREATEST IN 24-HOUR, IN. | TOTAL, IN., SINCE Feb. 27 | PCT. NORMAL SINCE Feb. 27 | TOTAL, IN., SINCE Jan. 1 | PCT. NORMAL SINCE Jan. 1 | AVERAGE MAXIMUM | AVERAGE MINIMUM | TEMPERA- TURE | | PRECIPI- TATION | | |
| | | | | | | | | | | | | | | | | 90 AND ABOVE | 32 AND BELOW | .01 INCH OR MORE | .50 INCH OR MORE | |
| ME SHREVEPORT | 77 | 59 | 84 | 51 | 68 | -5 | 5.9 | 4.8 | 2.2 | 12.4 | 93 | 23.4 | 120 | 96 | 65 | 0 | 0 | 5 | 4 | |
| ME CARIBOU | 59 | 39 | 72 | 29 | 49 | -2 | .1 | .5 | .1 | 9.7 | 128 | 14.8 | 132 | 75 | 38 | 0 | 1 | 2 | 0 | |
| ME PORTLAND | 61 | 42 | 75 | 34 | 52 | -2 | .8 | .8 | .1 | 4 | 18.9 | 169 | 27.4 | 164 | 89 | 45 | 0 | 0 | 4 | 0 |
| MD BALTIMORE | 71 | 50 | 84 | 39 | 61 | -3 | 3.5 | 2.7 | 1.8 | 17.0 | 167 | 24.1 | 161 | 94 | 60 | 0 | 0 | 5 | 2 | |
| MD SALISBURY | 70 | 51 | 85 | 40 | 61 | -3 | 1.4 | .6 | 1.0 | 14.9 | 141 | 20.0 | 122 | 99 | 69 | 0 | 0 | 4 | 1 | |
| MA BOSTON | 64 | 49 | 79 | 41 | 57 | -3 | .8 | .1 | .6 | 17.8 | 159 | 27.8 | 161 | 87 | 48 | 0 | 0 | 4 | 1 | |
| MA CHATHAM | 57 | 46 | 63 | 42 | 51 | -2 | 1.6 | .8 | 1.4 | 19.4 | 180 | 28.7 | 152 | 91 | 74 | 0 | 0 | 5 | 1 | |
| MI ALPENA | 59 | 35 | 70 | 25 | 47 | -5 | 1.0 | .4 | 1.0 | 11.2 | 165 | 14.5 | 154 | 95 | 47 | 0 | 4 | 1 | 1 | |
| MI DETROIT | 65 | 44 | 74 | 36 | 54 | -4 | .8 | .2 | .8 | 10.1 | 119 | 11.7 | 104 | 78 | 38 | 0 | 0 | 1 | 1 | |
| MI FLINT | 62 | 44 | 73 | 38 | 53 | -4 | .6 | 0 | .6 | 8.9 | 111 | 10.9 | 101 | 88 | 46 | 0 | 0 | 1 | 1 | |
| MI GRAND RAPIDS | 65 | 42 | 74 | 32 | 53 | -5 | 1.1 | .4 | 1.0 | 11.8 | 130 | 14.4 | 124 | 79 | 43 | 0 | 1 | 2 | 1 | |
| MI HOUGHTON LAKE | 59 | 38 | 70 | 30 | 49 | -6 | .8 | .3 | .8 | 8.1 | 127 | 10.2 | 117 | 82 | 46 | 0 | 2 | 2 | 1 | |
| MI LANSING | 63 | 42 | 73 | 34 | 52 | -6 | .8 | .2 | .7 | 10.0 | 128 | 11.8 | 109 | 84 | 45 | 0 | 0 | 2 | 1 | |
| MI MARQUETTE | 56 | 34 | 70 | 20 | 45 | -6 | .2 | .7 | .2 | 8.6 | 87 | 14.5 | 115 | 93 | 46 | 0 | 3 | 2 | 0 | |
| MI MUSKEGON | 61 | 39 | 74 | 28 | 50 | -7 | .6 | 0 | .6 | 7.9 | 92 | 10.2 | 87 | 84 | 44 | 0 | 2 | 1 | 1 | |
| MN SAULT STE. MARIE | 56 | 34 | 70 | 24 | 45 | -6 | .5 | .2 | .5 | 7.4 | 109 | 10.7 | 109 | 95 | 43 | 0 | 4 | 1 | 0 | |
| MN ALEXANDRIA | 61 | 42 | 76 | 31 | 51 | -5 | .1 | .6 | .1 | 2.9 | 49 | 4.0 | 60 | 85 | 42 | 0 | 1 | 1 | 0 | |
| MN DULUTH | 55 | 36 | 66 | 27 | 46 | -6 | .8 | .1 | .6 | 5.8 | 91 | 7.6 | 96 | 91 | 52 | 0 | 3 | 3 | 1 | |
| MN INT'L FALLS | 62 | 35 | 73 | 24 | 48 | -4 | .2 | .4 | .1 | 2.6 | 53 | 3.7 | 63 | 90 | 37 | 0 | 3 | 3 | 0 | |
| MN MINNEAPOLIS | 62 | 43 | 73 | 34 | 53 | -7 | .7 | 0 | .7 | 12.5 | 205 | 14.3 | 204 | 94 | 58 | 0 | 0 | 2 | 1 | |
| MN ROCHESTER | 59 | 42 | 69 | 32 | 51 | -7 | .6 | .2 | .3 | 7.6 | 106 | 9.6 | 123 | 91 | 60 | 0 | 1 | 5 | 0 | |
| MS GREENWOOD | 77 | 62 | 82 | 53 | 69 | -3 | 8.3 | 7.2 | 3.9 | 23.3 | 139 | 34.6 | 140 | 95 | 68 | 0 | 0 | 5 | 3 | |
| MS JACKSON | 80 | 63 | 85 | 55 | 72 | -1 | 8.8 | 7.7 | 3.1 | 30.7 | 180 | 44.8 | 183 | 98 | 65 | 0 | 0 | 5 | 4 | |
| MS MERIDIAN | 80 | 61 | 83 | 50 | 71 | -2 | 7.3 | 6.3 | 3.4 | 26.0 | 157 | 38.3 | 158 | 99 | 63 | 0 | 0 | 4 | 3 | |
| MO CAPE GIRARDEAU | 70 | 57 | 77 | 46 | 64 | -- | 3.0 | 1.9 | 1.6 | 21.8 | 164 | 23.2 | 125 | 96 | 57 | 0 | 0 | 4 | 2 | |
| MO COLUMBIA | 68 | 50 | 75 | 44 | 59 | -6 | 1.1 | .1 | .6 | 16.1 | 149 | 16.9 | 129 | 94 | 54 | 0 | 0 | 2 | 1 | |
| MO KANSAS CITY | 67 | 48 | 72 | 40 | 57 | -8 | .5 | .5 | .4 | 12.9 | 136 | 14.1 | 126 | 92 | 53 | 0 | 0 | 4 | 0 | |
| MO SAINT LOUIS | 69 | 52 | 75 | 41 | 61 | -5 | 2.0 | 1.3 | 1.8 | 16.1 | 159 | 17.8 | 138 | 97 | 52 | 0 | 0 | 2 | 1 | |
| MO SPRINGFIELD | 69 | 51 | 77 | 44 | 60 | -5 | .7 | .3 | .5 | 16.1 | 144 | 17.4 | 123 | 88 | 52 | 0 | 0 | 3 | 1 | |
| MT BILLINGS | 65 | 44 | 73 | 37 | 54 | -1 | .2 | .3 | .1 | 3.6 | 72 | 4.0 | 68 | 82 | 39 | 0 | 0 | 2 | 0 | |
| MT GLASGOW | 59 | 41 | 71 | 34 | 50 | -5 | .1 | .3 | .1 | 2.3 | 96 | 2.5 | 78 | 86 | 46 | 0 | 0 | 3 | 0 | |
| MT GREAT FALLS | 62 | 39 | 72 | 31 | 51 | -3 | .2 | .4 | .1 | 3.2 | 74 | 3.6 | 64 | 84 | 36 | 0 | 1 | 3 | 0 | |
| MT HAVRE | 64 | 40 | 75 | 33 | 52 | -3 | .3 | .1 | .2 | 3.5 | 109 | 4.5 | 115 | 91 | 38 | 0 | 0 | 3 | 0 | |
| MT HELENA | 63 | 40 | 70 | 35 | 51 | -2 | .5 | .1 | .5 | 2.6 | 90 | 3.0 | 86 | 79 | 32 | 0 | 0 | 3 | 0 | |
| MT KALISPELL | 63 | 38 | 74 | 31 | 51 | -1 | .4 | .1 | .2 | 4.5 | 136 | 6.4 | 116 | 93 | 43 | 0 | 1 | 3 | 0 | |
| MT MILES CITY | 63 | 42 | 71 | 36 | 53 | -5 | T | .5 | T | 2.2 | 56 | 2.5 | 57 | 86 | 38 | 0 | 0 | 0 | 0 | |
| MT MISSOULA | 59 | 41 | 70 | 36 | 50 | -2 | .8 | .4 | .5 | 4.6 | 153 | 6.1 | 133 | 90 | 49 | 0 | 0 | 3 | 1 | |
| NE GRAND ISLAND | 62 | 42 | 72 | 33 | 52 | -9 | 1.4 | .5 | 1.2 | 9.2 | 130 | 10.2 | 134 | 88 | 50 | 0 | 0 | 2 | 1 | |
| NE LINCOLN | 64 | 44 | 76 | 32 | 54 | -9 | 2.3 | 1.4 | 1.5 | 9.8 | 129 | 11.3 | 136 | 93 | 55 | 0 | 1 | 2 | 2 | |
| NE NORFOLK | 63 | 43 | 75 | 31 | 53 | -8 | 1.2 | .4 | .7 | 8.9 | 139 | 10.3 | 139 | 91 | 45 | 0 | 1 | 2 | 2 | |
| NE NORTH PLATTE | 60 | 35 | 75 | 29 | 48 | -11 | 1.7 | .9 | 1.3 | 6.5 | 120 | 7.1 | 118 | 91 | 48 | 0 | 2 | 4 | 1 | |
| NE OMAHA | 62 | 46 | 68 | 35 | 54 | -8 | 1.2 | .2 | .7 | 11.7 | 148 | 13.9 | 154 | 90 | 61 | 0 | 0 | 4 | 2 | |
| NE SCOTTSBLUFF | 56 | 37 | 73 | 33 | 47 | -11 | 2.2 | 1.6 | 1.5 | 7.8 | 177 | 8.0 | 174 | 88 | 51 | 0 | 0 | 4 | 2 | |
| NE VALENTINE | 61 | 38 | 77 | 29 | 49 | -8 | .8 | .2 | .8 | 7.6 | 152 | 7.7 | 140 | 83 | 41 | 0 | 1 | 2 | 1 | |
| NV ELY | 61 | 29 | 75 | 25 | 45 | -6 | .2 | .1 | .2 | 3.9 | 130 | 6.3 | 162 | 83 | 32 | 0 | 5 | 2 | 0 | |
| NV LAS VEGAS | 84 | 58 | 94 | 54 | 71 | -3 | 0 | .1 | 0 | 1.6 | 145 | 2.4 | 133 | 29 | 11 | 1 | 0 | 0 | 0 | |
| NV RENO | 70 | 36 | 83 | 29 | 53 | -2 | 0 | .2 | 0 | 3.2 | 188 | 5.9 | 169 | 78 | 23 | 0 | 2 | 0 | 0 | |
| NV WINNEMUCCA | 69 | 34 | 82 | 26 | 52 | -4 | T | .2 | T | 2.9 | 126 | 4.8 | 126 | 75 | 21 | 0 | 3 | 0 | 0 | |
| NH CONCORD | 63 | 39 | 76 | 25 | 51 | -5 | .6 | 0 | .3 | 15.6 | 177 | 21.7 | 166 | 93 | 45 | 0 | 3 | 4 | 0 | |
| NJ ATLANTIC CITY | 68 | 49 | 82 | 36 | 59 | -2 | 2.5 | 1.8 | .8 | 16.1 | 150 | 21.9 | 131 | 97 | 61 | 0 | 0 | 5 | 3 | |
| NM ALBUQUERQUE | 74 | 40 | 83 | 35 | 57 | -8 | .1 | 0 | .1 | .7 | 50 | 2.5 | 125 | 68 | 16 | 0 | 0 | 2 | 0 | |
| NM CLOVIS | 74 | 44 | 79 | 37 | 59 | -7 | T | .5 | T | 1.4 | 45 | 2.8 | 76 | 71 | 17 | 0 | 0 | 0 | 0 | |
| NM ROSWELL | 81 | 47 | 86 | 44 | 64 | -6 | 0 | .2 | 0 | 1.2 | 92 | 1.8 | 100 | 49 | 14 | 0 | 0 | 0 | 0 | |
| NY ALBANY | 63 | 42 | 73 | 30 | 53 | -5 | .7 | .1 | .4 | 16.1 | 181 | 21.8 | 177 | 95 | 52 | 0 | 2 | 4 | 0 | |
| NY BINGHAMTON | 61 | 43 | 72 | 33 | 52 | -4 | .9 | .2 | .7 | 13.9 | 158 | 17.9 | 142 | 81 | 44 | 0 | 0 | 2 | 1 | |
| NY BUFFALO | 63 | 43 | 72 | 32 | 53 | -4 | .7 | .1 | .5 | 8.2 | 92 | 10.9 | 80 | 82 | 41 | 0 | 1 | 2 | 1 | |
| NY NEW YORK | 63 | 49 | 67 | 38 | 56 | -6 | 1.2 | .4 | .6 | 21.3 | 188 | 28.4 | 176 | 91 | 59 | 0 | 0 | 5 | 1 | |
| NY ROCHESTER | 62 | 41 | 71 | 30 | 52 | -6 | .8 | .2 | .5 | 8.5 | 106 | 11.1 | 95 | 88 | 42 | 0 | 1 | 2 | 0 | |
| NY SYRACUSE | 63 | 40 | 74 | 30 | 52 | -6 | .6 | .1 | .3 | 10.7 | 113 | 13.7 | 99 | 95 | 46 | 0 | 2 | 2 | 0 | |
| NC ASHEVILLE | 71 | 52 | 78 | 37 | 61 | -2 | 2.4 | 1.4 | .9 | 15.0 | 118 | 23.9 | 131 | 99 | 64 | 0 | 0 | 5 | 2 | |
| NC CHARLOTTE | 76 | 57 | 82 | 46 | 66 | -2 | 1.1 | .3 | .6 | 10.6 | 95 | 18.3 | 105 | 84 | 47 | 0 | 0 | 3 | 1 | |
| NC GREENSBORO | 73 | 53 | 81 | 41 | 63 | -4 | 1.6 | .9 | .7 | 14.7 | 143 | 19.9 | 124 | 93 | 52 | 0 | 0 | 4 | 2 | |
| NC HATTERAS | 73 | 61 | 79 | 53 | 67 | -1 | .1 | .9 | .1 | 15.2 | 141 | 31.8 | 175 | 83 | 59 | 0 | 0 | 1 | 0 | |
| NC NEW BERN | 79 | 59 | 86 | 45 | 69 | -1 | T | 1.0 | T | 13.8 | 134 | 25.8 | 151 | 88 | 49 | 0 | 0 | 1 | 0 | |
| NC RALEIGH | 76 | 54 | 84 | 42 | 65 | -3 | 2.4 | 1.5 | 1.1 | 15.3 | 155 | 23.1 | 147 | 91 | 53 | 0 | 0 | 3 | 2 | |
| NC WILMINGTON | 77 | 56 | 84 | 45 | 67 | -5 | .1 | .9 | .1 | 12.3 | 114 | 24.5 | 148 | 92 | 59 | 0 | 0 | 1 | 0 | |
| ND BISMARCK | 62 | 35 | 73 | 26 | 49 | -7 | .1 | .4 | .1 | 3.8 | 95 | 4.3 | 90 | 86 | 39 | 0 | 3 | 2 | 0 | |
| ND FARGO | 64 | 39 | 77 | 24 | 51 | -5 | .4 | .1 | .3 | 4.1 | 89 | 4.8 | 94 | 81 | 37 | 0 | 1 | 3 | 0 | |
| ND GRAND FORKS | 65 | 37 | 80 | 25 | 51 | -4 | .1 | .3 | .1 | 3.5 | 95 | 4.1 | 91 | 82 | 28 | 0 | 2 | 3 | 0 | |
| ND WILLISTON | 62 | 37 | 71 | 30 | 50 | -6 | T | .4 | T | 2.9 | 91 | 3.3 | 87 | 88 | 44 | 0 | 2 | 1 | 0 | |
| OH AKRON-CANTON | 65 | 47 | 72 | 39 | 56 | -3 | .8 | 0 | .5 | 11.2 | 112 | 14.1 | 101 | 83 | 49 | 0 | 0 | 2 | 0 | |
| OH CINCINNATI | 69 | 49 | 75 | 38 | 59 | -5 | 1.8 | .9 | 1.1 | 14.4 | 127 | 17.1 | 103 | 89 | 53 | 0 | 0 | 4 | 1 | |
| OH CLEVELAND | 63 | 47 | 73 | 39 | 55 | -4 | .5 | .2 | .3 | 9.1 | 94 | 11.5 | 85 | 82 | 45 | 0 | 0 | 2 | 0 | |
| OH COLUMBUS | 67 | 47 | 71 | 37 | 57 | -5 | .8 | 0 | .4 | 10.8 | 104 | 12.7 | 88 | 88 | 50 | 0 | 0 | 3 | 0 | |

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

Weather Data for the Week Ending May 21, 1983

| STATES AND STATIONS | TEMPERATURE °F | | | | | | PRECIPITATION | | | | | | RELATIVE HUMIDITY, PERCENT | | NUMBER OF DAYS | | | | | |
|---------------------------|--------------------|--------------------|-----------------|----------------|---------|--------------------------|----------------------|--------------------------|-----------------------------|------------------------------|------------------------------|----------------------------|-----------------------------|--------------------|--------------------|--------------|--------------|---------------------|---------------------|---|
| | AVERAGE MAXIMUM | AVERAGE MINIMUM | EXTREME HIGH | EXTREME LOW | AVERAGE | DEPARTURE FROM NORMAL | WEEKLY TOTAL, IN. | DEPARTURE FROM NORMAL | GREATEST IN 24-HOUR, IN. | TOTAL, IN., SINCE Feb. 27 | PCT. NORMAL SINCE Feb. 27 | TOTAL IN., SINCE Jan. 1 | PCT. NORMAL SINCE Jan. 1 | AVERAGE MAXIMUM | AVERAGE MINIMUM | TEMPERATURE | | PRECIPITATION | | |
| | | | | | | | | | | | | | | | | 90 AND ABOVE | 32 AND BELOW | .01 INCH OR MORE | .50 INCH OR MORE | |
| AYTON | 66 | 47 | 72 | 40 | 57 | -6 | .6 | -.3 | .3 | 11.1 | 111 | 13.2 | 94 | 80 | 50 | 0 | 0 | 3 | 0 | |
| TOLEDO | 65 | 44 | 75 | 36 | 54 | -5 | .4 | -.2 | .3 | 8.8 | 107 | 10.2 | 91 | 89 | 49 | 0 | 0 | 2 | 0 | |
| YOUNGSTOWN | 62 | 42 | 71 | 33 | 52 | -6 | .8 | -.1 | .4 | 11.0 | 111 | 13.3 | 94 | 91 | 57 | 0 | 0 | 2 | 0 | |
| OKLAHOMA CITY | 70 | 50 | 76 | 43 | 60 | -9 | 1.3 | -.1 | .5 | 9.7 | 104 | 14.2 | 128 | 91 | 50 | 0 | 0 | 3 | 1 | |
| FULSA | 72 | 54 | 80 | 45 | 63 | -7 | 1.9 | .7 | 1.0 | 11.9 | 105 | 16.8 | 124 | 92 | 54 | 0 | 0 | 2 | 2 | |
| ASTORIA | 62 | 52 | 65 | 47 | 57 | 4 | .5 | -.2 | .3 | 16.2 | 105 | 38.4 | 123 | 92 | 64 | 0 | 0 | 2 | 0 | |
| BURNS | 64 | 35 | 73 | 29 | 50 | -3 | T | -.1 | T | 5.0 | 250 | 8.8 | 191 | 76 | 42 | 0 | 2 | 1 | 0 | |
| MEDFORD | 76 | 43 | 86 | 38 | 60 | 2 | T | .3 | T | 5.1 | 131 | 11.7 | 127 | 91 | 33 | 0 | 0 | 0 | 0 | |
| PENDLETON | 68 | 46 | 81 | 40 | 57 | -2 | -.1 | -.1 | .1 | 4.4 | 142 | 6.6 | 122 | 78 | 35 | 0 | 0 | 3 | 0 | |
| PORTLAND | 69 | 50 | 78 | 47 | 59 | 2 | -.1 | .4 | T | 10.0 | 120 | 24.0 | 138 | 84 | 47 | 0 | 0 | 2 | 0 | |
| SALEM | 70 | 44 | 80 | 37 | 57 | 2 | -.2 | -.2 | .2 | 13.0 | 144 | 29.4 | 149 | 90 | 45 | 0 | 0 | 1 | 0 | |
| ALLENTOWN | 66 | 46 | 75 | 35 | 56 | -5 | 1.2 | .4 | .8 | 15.3 | 134 | 21.4 | 133 | 95 | 56 | 0 | 0 | 5 | 1 | |
| ERIE | 61 | 45 | 72 | 36 | 53 | -3 | .4 | -.3 | .2 | 8.6 | 92 | 11.4 | 87 | 78 | 47 | 0 | 0 | 2 | 0 | |
| HARRISBURG | 66 | 46 | 77 | 35 | 56 | -7 | 1.8 | .9 | .8 | 15.8 | 158 | 21.4 | 151 | 85 | 34 | 0 | 0 | 3 | 1 | |
| PHILADELPHIA | 70 | 52 | 80 | 40 | 61 | -2 | 4.0 | 3.3 | 1.7 | 18.9 | 182 | 25.2 | 169 | 89 | 50 | 0 | 0 | 5 | 3 | |
| PITTSBURGH | 63 | 45 | 73 | 35 | 54 | -6 | 1.6 | .8 | .9 | 10.8 | 105 | 13.7 | 94 | 82 | 48 | 0 | 0 | 3 | 2 | |
| SCRANTON | 62 | 44 | 71 | 31 | 53 | -7 | .9 | .2 | .6 | 14.4 | 169 | 17.1 | 145 | 86 | 53 | 0 | 2 | 4 | 1 | |
| PROVIDENCE | 63 | 46 | 74 | 35 | 55 | -4 | 1.3 | .5 | .8 | 22.2 | 182 | 31.5 | 176 | 89 | 47 | 0 | 0 | 4 | 1 | |
| CHARLESTON | 80 | 65 | 85 | 56 | 72 | -1 | -.1 | -1.0 | -.1 | 16.1 | 148 | 26.7 | 165 | 86 | 55 | 0 | 0 | 1 | 0 | |
| COLUMBIA | 81 | 60 | 88 | 45 | 70 | -2 | -.1 | -.8 | -.1 | 14.8 | 120 | 22.8 | 127 | 87 | 46 | 0 | 0 | 2 | 0 | |
| FLORENCE | 82 | 60 | 87 | 48 | 71 | -1 | -.1 | -.6 | -.1 | 14.2 | 142 | 22.9 | 154 | 89 | 45 | 0 | 0 | 2 | 0 | |
| GREENVILLE | 74 | 58 | 81 | 46 | 66 | -3 | 4.2 | 3.3 | 1.9 | 16.3 | 116 | 24.1 | 114 | 96 | 58 | 0 | 0 | 4 | 3 | |
| ABERDEEN | 64 | 40 | 79 | 36 | 52 | -6 | -.1 | -.4 | -.1 | 4.7 | 96 | 5.1 | 91 | 91 | 47 | 0 | 0 | 2 | 0 | |
| HURON | 65 | 42 | 76 | 36 | 53 | -5 | T | -.6 | T | 4.9 | 94 | 5.0 | 88 | 97 | 52 | 0 | 0 | 3 | 0 | |
| RAPID CITY | 61 | 38 | 74 | 34 | 49 | -7 | -.2 | -.4 | -.2 | 4.0 | 80 | 4.3 | 80 | 85 | 45 | 0 | 0 | 2 | 0 | |
| SIOUX FALLS | 64 | 43 | 74 | 29 | 53 | -6 | -.2 | -.6 | -.1 | 9.1 | 138 | 9.9 | 129 | 98 | 52 | 0 | 1 | 2 | 0 | |
| CHATTANOOGA | 71 | 57 | 81 | 49 | 64 | -4 | 4.2 | 3.3 | 2.2 | 14.8 | 100 | 21.9 | 92 | 89 | 62 | 0 | 0 | 6 | 3 | |
| KNOXVILLE | 75 | 57 | 82 | 48 | 66 | -2 | 2.8 | 2.0 | 1.2 | 12.2 | 93 | 16.7 | 79 | 92 | 60 | 0 | 0 | 5 | 3 | |
| MEMPHIS | 73 | 59 | 80 | 48 | 66 | -5 | 6.0 | 4.8 | 2.4 | 22.0 | 135 | 26.8 | 110 | 97 | 67 | 0 | 0 | 5 | 3 | |
| NASHVILLE | 70 | 54 | 79 | 42 | 62 | -6 | 8.1 | 7.1 | 2.1 | 20.3 | 143 | 25.8 | 118 | 93 | 63 | 0 | 0 | 6 | 5 | |
| ABILENE | 80 | 56 | 90 | 48 | 68 | -5 | T | -.7 | T | 2.9 | 47 | 5.2 | 68 | 77 | 34 | 1 | 0 | 2 | 0 | |
| AMARILLO | 72 | 42 | 79 | 33 | 57 | -9 | 1.5 | .8 | 1.5 | 4.2 | 111 | 7.2 | 160 | 89 | 33 | 0 | 0 | 1 | 1 | |
| AUSTIN | 76 | 59 | 82 | 52 | 67 | -8 | 3.0 | 2.0 | 1.4 | 11.4 | 133 | 16.3 | 126 | 95 | 61 | 0 | 0 | 6 | 3 | |
| BEAUMONT | 79 | 65 | 81 | 57 | 72 | -4 | 9.3 | 8.2 | 7.2 | 15.8 | 139 | 25.3 | 138 | 98 | 75 | 0 | 0 | 5 | 2 | |
| BROWNSVILLE | 88 | 73 | 92 | 67 | 80 | 1 | T | -.5 | T | .8 | 21 | 4.5 | 70 | 87 | 59 | 2 | 0 | 0 | 0 | 0 |
| CORPUS CHRISTI | 81 | 68 | 85 | 54 | 75 | -4 | -.2 | -.5 | -.1 | 5.3 | 96 | 9.4 | 109 | 98 | 74 | 0 | 0 | 3 | 0 | |
| DEL RIO | 89 | 63 | 92 | 58 | 76 | -2 | 1.0 | -.6 | -.7 | 2.3 | 52 | 4.0 | 71 | 84 | 37 | 4 | 0 | 3 | 1 | |
| EL PASO | 81 | 47 | 86 | 42 | 64 | -8 | 0 | -.1 | 0 | 1.8 | 257 | 2.7 | 193 | 47 | 10 | 0 | 0 | 0 | 0 | |
| FORT WORTH | 77 | 56 | 87 | 50 | 66 | -8 | 2.9 | 1.9 | 1.1 | 8.7 | 86 | 12.5 | 93 | 87 | 44 | 0 | 0 | 4 | 3 | |
| GALVESTON | 78 | 67 | 79 | 61 | 73 | -4 | 1.1 | .3 | .5 | 4.7 | 58 | 12.2 | 95 | 97 | 80 | 0 | 0 | 4 | 1 | |
| HOUSTON | 79 | 62 | 87 | 51 | 71 | -4 | 4.7 | 3.7 | 2.6 | 11.2 | 99 | 17.2 | 99 | 96 | 65 | 0 | 0 | 4 | 2 | |
| LUBBOCK | 80 | 48 | 86 | 41 | 64 | -5 | 0 | -.6 | 0 | 2.2 | 55 | 5.2 | 111 | 80 | 23 | 0 | 0 | 0 | 0 | |
| MIDLAND | 86 | 53 | 91 | 48 | 69 | -3 | T | -.5 | T | .3 | 10 | 1.8 | 46 | 67 | 13 | 2 | 0 | 0 | 0 | |
| SAN ANGELO | 86 | 55 | 91 | 48 | 70 | -4 | 0 | -.6 | 0 | 2.2 | 45 | 4.7 | 76 | 90 | 28 | 2 | 0 | 0 | 0 | |
| SAN ANTONIO | 78 | 59 | 85 | 51 | 69 | -7 | 3.5 | 2.7 | 1.6 | 8.1 | 114 | 11.1 | 111 | 92 | 60 | 0 | 0 | 6 | 3 | |
| VICTORIA | 80 | 63 | 86 | 53 | 72 | -5 | .4 | -.6 | -.2 | 6.1 | 77 | 11.6 | 104 | 93 | 70 | 0 | 0 | 5 | 0 | |
| WACO | 80 | 56 | 90 | 49 | 68 | -7 | 1.1 | 0 | .5 | 5.7 | 55 | 9.9 | 71 | 94 | 50 | 1 | 0 | 4 | 0 | |
| WICHITA FALLS | 76 | 53 | 87 | 46 | 65 | -8 | 1.0 | -.1 | .8 | 5.6 | 65 | 8.4 | 82 | 90 | 44 | 0 | 0 | 4 | 1 | |
| BLANDING | 61 | 35 | 74 | 30 | 48 | -9 | -.2 | -.1 | -.1 | 2.7 | 135 | 5.8 | 157 | 74 | 32 | 0 | 2 | 3 | 0 | |
| CEDAR CITY | 64 | 35 | 78 | 30 | 50 | -8 | .4 | -.2 | -.3 | 5.0 | 161 | 6.9 | 168 | 74 | 26 | 0 | 2 | 3 | 0 | |
| SALT LAKE CITY | 62 | 42 | 74 | 38 | 52 | -8 | .8 | -.5 | -.3 | 8.1 | 145 | 10.6 | 145 | 87 | 41 | 0 | 0 | 6 | 0 | |
| BURLINGTON | 61 | 40 | 69 | 29 | 50 | -6 | .6 | -.1 | -.5 | 12.2 | 163 | 17.0 | 165 | 85 | 43 | 0 | 2 | 3 | 1 | |
| NORFOLK | 74 | 56 | 89 | 44 | 65 | -2 | 2.3 | 1.4 | 1.3 | 14.1 | 141 | 22.4 | 142 | 87 | 51 | 0 | 0 | 3 | 2 | |
| RICHMOND | 76 | 55 | 88 | 43 | 65 | -1 | .8 | 0 | -.3 | 12.7 | 131 | 18.2 | 125 | 95 | 56 | 0 | 0 | 4 | 0 | |
| ROANOKE | 72 | 51 | 83 | 38 | 61 | -4 | 1.8 | 1.0 | .7 | 16.8 | 166 | 22.2 | 149 | 95 | 52 | 0 | 0 | 4 | 2 | |
| COLVILLE | 68 | 44 | 78 | 37 | 56 | 1 | .6 | -.2 | .5 | 7.0 | 179 | 12.0 | 167 | 83 | 48 | 0 | 0 | 3 | 0 | |
| QUILLAYUTE | 60 | 47 | 65 | 40 | 54 | 2 | .7 | -.3 | .5 | 20.5 | 85 | 54.5 | 113 | 97 | 62 | 0 | 0 | 5 | 1 | |
| SEATTLE-TACOMA | 64 | 48 | 73 | 42 | 56 | 1 | .5 | -.1 | .5 | 7.1 | 89 | 18.6 | 109 | 91 | 53 | 0 | 0 | 1 | 0 | |
| SPOKANE | 67 | 43 | 77 | 39 | 55 | 0 | .2 | -.2 | -.1 | 3.9 | 98 | 8.0 | 103 | 85 | 33 | 0 | 0 | 3 | 0 | |
| YAKIMA | 75 | 46 | 87 | 39 | 60 | 2 | 0 | -.1 | 0 | 2.8 | 255 | 6.4 | 200 | 63 | 28 | 0 | 0 | 0 | 0 | |
| BECKLEY | 67 | 48 | 72 | 32 | 57 | -3 | 2.6 | 1.7 | 1.1 | 8.4 | 74 | 10.4 | 61 | 92 | 55 | 0 | 1 | 5 | 2 | |
| CHARLESTON | 69 | 50 | 76 | 40 | 60 | -5 | 2.6 | 1.8 | 1.0 | 11.7 | 106 | 15.6 | 95 | 93 | 50 | 0 | 0 | 4 | 3 | |
| HUNTINGTON | 69 | 50 | 74 | 37 | 59 | -6 | 3.4 | 2.5 | 1.4 | 12.0 | 106 | 15.3 | 94 | 88 | 51 | 0 | 0 | 5 | 4 | |
| PARKERSBURG | 68 | 50 | 74 | 38 | 59 | -5 | 2.7 | 1.7 | 1.1 | 14.1 | 126 | 17.9 | 107 | 89 | 50 | 0 | 0 | 5 | 2 | |
| GREEN BAY | 59 | 40 | 72 | 30 | 49 | -6 | .4 | -.3 | .4 | 5.5 | 76 | 7.7 | 89 | 85 | 47 | 0 | 1 | 2 | 0 | |
| LA CROSSE | 63 | 45 | 74 | 30 | 54 | -6 | .6 | -.2 | .4 | 6.7 | 81 | 8.3 | 88 | 90 | 49 | 0 | 1 | 3 | 0 | |
| MADISON | 64 | 43 | 70 | 30 | 53 | -5 | .5 | -.3 | .3 | 7.0 | 84 | 9.7 | 100 | 91 | 51 | 0 | 1 | 3 | 0 | |
| MILWAUKEE | 56 | 42 | 67 | 31 | 49 | -6 | .9 | -.4 | .7 | 12.9 | 157 | 15.9 | 156 | 87 | 56 | 0 | 1 | 3 | 1 | |
| WAUSAU | 61 | 40 | 73 | 29 | 50 | -6 | .6 | -.2 | .3 | 4.9 | 62 | 7.0 | 73 | 90 | 42 | 0 | 2 | 5 | 0 | |
| CASPER | 57 | 33 | 69 | 27 | 45 | -8 | .7 | -.2 | .4 | 5.6 | 130 | 6.5 | 133 | 95 | 42 | 0 | 3 | 5 | 0 | |
| CHEYENNE | 52 | 34 | 65 | 29 | 43 | -10 | 1.4 | .9 | 1.0 | 8.5 | 218 | 8.5 | 189 | 99 | 57 | 0 | 3 | 4 | 1 | |
| LANDER | 56 | 35 | 68 | 29 | 45 | -8 | 1.1 | -.5 | .5 | 8.2 | 146 | 8.8 | 140 | 86 | 42 | 0 | 1 | 5 | 1 | |
| SHERIDAN | 64 | 35 | 74 | 27 | 49 | -5 | .3 | -.3 | .2 | 2.1 | 39 | 2.4 | 39 | 77 | 36 | 0 | 2 | 2 | 0 | |
| SAN JUAN | 89 | 77 | 93 | 76 | 83 | 3 | .8 | -.5 | .2 | 9.2 | 88 | 10.1 | 64 | 85 | 61 | 3 | 0 | 6 | 0 | |

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

+100 = NORMAL & ACTUAL NEAR THE SAME

National Agricultural Summary

May 16 to 22

HIGHLIGHTS: Heavy rain from the central Plains to the Delta States and northeastward through Kentucky limited fieldwork, caused localized flooding, and lodged some small grains. Growers in the Delta States will need to replant some fields. Producers in the Delta States had 1 to 2 days available for fieldwork, while Corn Belt farmers had 2 to 3 favorable days. The rest of the Nation generally had 3 to 5 days suitable for fieldwork. As a result of the heavy rain, soil moisture supplies were adequate to surplus in most regions. Short to adequate supplies were reported in portions of Texas. Corn planting reached the 63% mark, lagging the average of 75%. Soybeans were 15% planted, 17 points behind normal. Sorghum was 35% planted compared with the average of 44%. Cotton planting advanced to 60%, 8 points behind average. Winter wheat was in fair to mostly good condition; 37% was headed compared with 57% a year earlier. Spring wheat planting was 85% completed, 7 points ahead of normal; 54% of the acreage had emerged. Rice was 68% planted, 20 points behind average; 49% of the acreage had emerged. Vegetable harvesting and planting increased in the northern producing areas. Apples were in full bloom in northern producing areas, while peach harvesting began in the extreme South. Livestock were in fair to good condition.

SMALL GRAINS...Winter wheat was in fair to mostly good condition with adequate moisture available for development. Winter wheat was 37% headed, lagging last year's 57% and the 55% average. Heading was underway in all States except Idaho, Montana, Nebraska, and South Dakota. Harvesting was just beginning in South Texas compared with the 2% average for this date.

Spring wheat seeding in the five major producing States reached 85%, ahead of last year's 72% and the 78% average. Progress lagged the normal in Idaho and South Dakota. The crop had emerged on 54% of the intended acreage. Stands were in fair to mostly good condition with adequate moisture supplies for good growth.

CORN...Corn planting in the 17 major producing States was 63% completed, lagging last year's 77% and the 75% average. Progress was behind normal in all States. Planting moved ahead rapidly from the Corn Belt northward as dry weather moved in. Producers in Michigan planted 30% of their acreage during the week, while those in South Dakota and Minnesota planted 26 and 25%, respectively. Heavy rains in the Delta States may cause some replanting.

SORGHUM...Sorghum planting was 35% completed in the seven major producing States, behind last year's 37% and the 44% average. Rain slowed progress in most areas, leaving planting behind normal in all States. Planting ranged from 1% complete in South Dakota to 72% complete in Texas. Texas stands were in good condition following showers. However, uneven growth due to moisture stress was evident in some areas.

SOYBEANS...Soybean planting was 15% complete in the 18 major producing States, compared with 37% a year earlier and the average of 32%. Producers in North Carolina, Georgia, and Illinois planted 18, 17, and 16%, respectively, of their acreage during the week. Progress was behind normal in all States by as much as 30 percentage points in Ohio, 24 percentage points in Minnesota, and 22 percentage points in Iowa. Heavy rain from the Delta States to Kentucky brought planting to a standstill. Farmers in Kentucky, Arkansas, and Missouri planted 1, 2, and 3%, respectively, during the week.

COTTON...Producers in the 14 major producing States have planted 60% of their intended acreage, 2 points behind a year ago and 8 points behind the average. Rain slowed progress from East Texas into portions of Georgia. Only Arizona and South Carolina producers were ahead of their normal planting pace. Planting in Texas was only 38% finished, 12 percentage points behind normal. Stands improved in the Blacklands and Cross Timbers areas with additional moisture. Fields in the Rio Grande Valley were irrigated, and 4% of the crop was squaring.

OTHER CROPS...Rice planting in the five major producing States was 68% finished, compared with 86% a year earlier. Seeding was slower than average in all States except Texas where seeding was on schedule. Planting in California was 59 percentage points behind normal, while progress in Arkansas was 18 points behind the average for this date. Rice had emerged on 49% of the acreage, behind last year's 62%.

Peanut planting neared completion in Florida, reached 94% in Virginia, 92% in Georgia, 85% in Alabama, 68% in North Carolina, and 17% in Texas.

Wet fields halted tobacco transplanting in Kentucky and Tennessee, but transplanting gained momentum elsewhere. The burley crop was 3% set in Virginia compared with the 12% average. North Carolina growers set 75% of their flue-cured acreage, 10 points behind normal.

Hay harvesting moved northward. However, frequent heavy showers have delayed cutting in the eastern half of the Nation.

FRUITS AND NUTS...Apples were in full bloom in the Northeast. Peach growers in southern Georgia began harvesting early varieties.

Growers irrigated citrus groves in Florida. Harvesting of Valencia oranges continued active.

Citrus picking neared completion in the Rio Grande Valley of Texas. Peaches developed well with some losses from high winds and hail. Pecans need additional moisture to maintain development.

Increased demand for Arizona's Valencia oranges and grapefruit encouraged a steady harvest. Lemon picking continued slow.

In the northern Sacramento Valley of California, losses of peach trees from wet soil and standing water may exceed the previous estimate of 10%. Growers harvested cherries and early varieties of peaches and nectarines. Citrus picking continued active. Valencia orange harvesting commenced in all areas. Almonds and walnuts showed new growth.

VEGETABLES...Vegetable harvesting and planting became more active in northern producing areas.

Florida, vegetable shipments increased 27% from the previous week. Commercial strawberry picking was completed in the Hillsborough-Manatee area. Watermelon harvesting increased as activity moved northward into major producing areas.

Increased precipitation benefited most Texas vegetables. Watermelon harvesting gained momentum in the Rio Grande Valley. Heavy rain slowed planting in East Texas, and some replanting may be necessary.

Dry conditions prevailed in California; growers harvested a wide variety of vegetables. Cantaloup harvesting started in the desert area. Planting continued active in some areas of the State.

PASTURES AND LIVESTOCK...Heavy snow in the Rocky Mountains slowed movement of livestock to summer ranges in some areas. Texas ranges still need additional moisture to sustain growth, despite

(continued on p. 6)

CROP PROGRESS

FOR WEEK ENDING MAY 22

| WINTER WHEAT % HEADED | | | | SPRING WHEAT % PLANTED | | | | COTTON % PLANTED | | | | RICE % PLANTED | | | |
|--------------------------|------|------|------|---------------------------|------|------|------|---------------------|------|------|------|-------------------|------|------|------|
| | 1983 | 1982 | AVG. | | 1983 | 1982 | AVG. | | 1983 | 1982 | AVG. | | 1983 | 1982 | AVG. |
| CALIF | 95 | 95 | 99 | IDAHO | 90 | 97 | 97 | ALA | 88 | 94 | 94 | ARK | 67 | 91 | 85 |
| COLO | 2 | 19 | 10 | MINN | 90 | 78 | 85 | ARIZ | 99 | 95 | 97 | CALIF | 20 | 50 | 79 |
| IDAHO | 0 | 0 | 1 | MONT | 90 | 75 | 75 | ARK | 83 | 88 | 86 | LA | 86 | 93 | 94 |
| ILL | 45 | 70 | 55 | N D | 76 | 59 | 67 | CALIF | 99 | 100 | 100 | MISS | 82 | 94 | 90 |
| IND | 15 | 40 | 55 | S DAK | 96 | 95 | 97 | GA | 85 | 89 | 88 | TEX | 98 | 97 | 98 |
| KANS | 20 | 70 | 60 | | | | | LA | 76 | 92 | 83 | | | | |
| MO | 39 | 65 | 60 | 5 STATES | 85 | 72 | 78 | MISS | 90 | 98 | 90 | 5 STATES | 68 | 86 | 88 |
| MONT | 0 | 0 | 0 | | | | | MO | 63 | 100 | 89 | | | | |
| NEBR | 0 | 10 | 15 | SPRING WHEAT % EMERGED | | | | N MEX | 72 | 81 | 87 | RICE % EMERGED | | | |
| OHIO | 5 | 15 | 5 | | 1983 | 1982 | AVG. | N C | 78 | 93 | 93 | | 1983 | 1982 | AVG. |
| OKLA | 85 | 95 | 95 | IDAHO | 78 | 87 | 79 | OKLA | 20 | 10 | 20 | ARK | 40 | 60 | 68 |
| OREG | 32 | 15 | 26 | MINN | 64 | 67 | 67 | S C | 97 | 99 | 94 | CALIF | 5 | 10 | 44 |
| S DAK | 0 | 0 | 8 | MONT | 60 | 45 | 55 | TENN | 58 | 91 | 85 | LA | 76 | 88 | 90 |
| TEX | 78 | 91 | 90 | N D | 35 | 35 | 42 | TEX | 38 | 37 | 50 | MISS | 50 | 70 | 78 |
| WASH | 12 | 3 | 10 | S DAK | 85 | 87 | 94 | 14 STATES | 60 | 62 | 68 | TEX | 88 | 88 | 93 |
| 15 STATES | 37 | 57 | 55 | 5 STATES | 54 | 53 | 58 | | | | | 5 STATES | 49 | 62 | 73 |

THESE 15 STATES PRODUCED 80% OF THE 1982 WINTER WHEAT CROP.

THESE 5 STATES PRODUCED 96% OF THE 1982 SPRING WHEAT CROP.

THESE 14 STATES PRODUCED 99% OF THE 1982 COTTON CROP.

THESE 5 STATES PRODUCED 98% OF THE 1982 RICE CROP.

| SOYBEANS % PLANTED | | | | CORN % PLANTED | | | |
|-----------------------|------|------|------|-------------------|------|------|------|
| | 1983 | 1982 | AVG. | | 1983 | 1982 | AVG. |
| ALA | 26 | 37 | 36 | COLO | 64 | 80 | 72 |
| ARK | 6 | 24 | 15 | GA | 98 | 99 | 99 |
| GA | 35 | 31 | 36 | ILL | 69 | 97 | 77 |
| ILL | 21 | 66 | 39 | IND | 50 | 96 | 60 |
| IND | 15 | 70 | 25 | IOWA | 82 | 69 | 83 |
| IOWA | 16 | 13 | 38 | KANS | 65 | 70 | 70 |
| KANS | 5 | 5 | 15 | KY | 20 | 90 | 71 |
| KY | 1 | 35 | 19 | MICH | 50 | 90 | 70 |
| LA | 13 | 32 | 30 | MINN | 66 | 66 | 76 |
| MICH | 20 | 50 | 28 | MO | 51 | 84 | 66 |
| MINN | 18 | 19 | 42 | NEBR | 65 | 45 | 85 |
| MISS | 14 | 34 | 25 | N C | 95 | 99 | 97 |
| MO | 6 | 31 | 24 | OHIO | 50 | 100 | 70 |
| NEBR | 10 | 3 | 30 | PA | 44 | 75 | 60 |
| N C | 30 | 42 | 35 | S DAK | 35 | 41 | 64 |
| OHIO | 15 | 85 | 45 | VA | 80 | 88 | 82 |
| S C | 18 | 30 | 35 | WIS | 51 | 59 | 61 |
| TENN | 3 | 25 | 23 | | | | |
| 18 STATES | 15 | 37 | 32 | 17 STATES | 63 | 77 | 75 |

THESE 18 STATES PRODUCED 94% OF THE 1982 SOYBEAN CROP.

THESE 17 STATES PRODUCED 93% OF THE 1982 CORN CROP.

| SORGHUM % PLANTED | | | |
|----------------------|------|------|------|
| | 1983 | 1982 | AVG. |
| COLO | 11 | 26 | 15 |
| KANS | 4 | 10 | 15 |
| MO | 12 | 51 | 35 |
| NEBR | 10 | 1 | 30 |
| OKLA | 20 | 15 | 25 |
| S DAK | 1 | 3 | 17 |
| TEX | 72 | 70 | 76 |
| 7 STATES | 35 | 37 | 44 |

THESE 7 STATES PRODUCED 90% OF THE 1982 SORGHUM CROP.

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 SRS State Offices in cooperation with the National Weather Service.

ALABAMA: Rainfall totals exceeding 4.00 in. north and central. Scattered rainfall elsewhere. Air and soil temperatures below normal.

Soil moisture adequate to surplus. Fieldwork: 3.0 days. Soybeans planted 26%, 1982 37%, average 36%. Cotton planted 88%, 1982 94%, average 94%. Peanuts planted 85%, 1982 91%, average 84%. Wheat turning color 30%, 1982 71%, average 65%. Sorghum planted 34%, 1982 39%, average 38%. Activities: Planting cotton, peanuts, soybeans, and sorghum; pest control on fruit, vegetables, and crops; spreading fertilizer, harvesting hay. Conditions: Corn, cotton mostly fair; peanuts, wheat, pasture, livestock fair to good. Plowing 85%.

ALASKA: The week began with warm temperatures but cooling set in 17th accompanied by showers in a few areas, especially in northern valleys. End of week saw a return to warmer temperatures in most areas. Precipitation was generally light

with some areas reporting from 0.10 to 0.50 in. rainfall Tanana Valley. Temperatures were warmest first of week with coldest nighttime readings late in week. Precipitation generally light except for some stations recording close to 0.50 in. Matanuska Valley. Temperatures were generally normal. Dry conditions prevailed. Kenai Peninsula. Generally normal daytime temperatures to slightly above normal temperatures at night. Spotty precipitation. Kodiak Island. Generally cool temperatures with rainfall amounts more than 2.00 in.

Sunny and mild weather enabled seed bed preparation, planting, and fertilizing most areas of Rail belt. Five to seven days favorable fieldwork. Small grain seeding varied 20 to 100% complete. Barley seeding excellent progress. Crop 50% in ground, last year 5%. Potato planting nearing completion. Soil moisture supplies continued mostly adequate.

ARIZONA: Weather dominated by two weak weather disturbances. First caused trace amount precipitation, mainly northern portions. Second disturbance produced measurable precipitation northern, eastern mountains, northeast plateau where heaviest amounts just over 0.50 in. occurred. Southern areas enjoyed near normal temperatures, sunny days. Averages ranged 2° above to 6° below normal.

Fruit growers busy, numerous harvest activities underway. Peach harvest active, complete by end of May. Harvest plums Queen Creek area, grapes Hyder area being June 10th. Valencia oranges, grapefruit picked steady rate, export demand creating favorable market. Lemon harvest continued slow. Citrus groves good condition. Vegetable growers quite busy, various stages harvest in progress. Limited cutting spring lettuce central areas, harvest getting underway Willcox area. Dry onion, chipper, table potato harvests strong central parts of State. Cooler temperatures earlier caused potatoes run small but quality very good. Cantaloups, watermelons, honeydew melons progressed satisfactorily, somewhat behind normal. Earlier rains, wind took toll on vines causing lag in progress. Yuma County vines well developed, fruit setting, sizing normally. Fields sprayed to control powdery mildew. Cantaloups could be picked Yuma by June 1st, most harvest western areas should begin June 15th. Harvest central areas start shortly thereafter. Cotton planting neared completion, approximately 99% planted, ahead both 95% planted last year, average 97%. Growers continued replant areas where germination poor. This due to cloddy soils, cooler temperatures, high winds which also major factor below average crop development central areas. Cotton emerging most areas Maricopa, Pinal Counties. Yuma County cotton made average progress, stands established, earlier planted fields squaring. Growers there applying first post-emergence irrigation. Southeastern area cotton average crop development. Growers Statewide applying herbicides, insecticides as needed. Small grain harvest increased scale. Yuma County wheat, barley turned color, combining on large scale. Maricopa County small grain harvest getting off to good start. Cutting barley for grain begun Pinal, Pima Counties, most of wheat still turning color. Alfalfa harvest increasing, normal cultural practices taking place. Sorghum, corn progressed satisfactorily. Safflower flowering, setting seed.

ARKANSAS: Temperatures averaged 5° below normal. Highest was 86°, lowest 37°. Highest rainfall 6.57 in. Lowest 0.97 in.

Weather conditions continued cool and wet. Flooding reported northeast. Soil moisture surplus. Fieldwork limited 2.9 days. Cotton planted 83%, 88% 1982, 86% average. Rice planted 67%, 91% 1982, 85% average; emerged 40%, 60% 1982, 68% average. Soybeans planted 62%, 24% 1982, 15% average. Corn planted 85%, 91% 1982, 80% average. Sorghum planted 58%, 85% 1982, 74% average. Wheat and oats 100% headed fair to good condition. Pastures fairly good condition. Livestock mostly good condition.

CALIFORNIA: Warm high pressure dominated the weather scene for the entire period. Dry weather and above normal temperatures were prevalent throughout the districts. Eureka and Alturas were the only sites recording any precipitation. Thermal recorded a temperature of 103° and Susanville a low of 21° for the extremes.

Continued ideal weather assisting growers in completing planting operations. Rice planting active with 20% completed, 50 last year, and 79 average. Rice emerged 5% this year, 10% last

year, 44% average. Cotton progressing well with 99% planted, 100 last year, 100 average. Some fields will remain spotty due to diseases. Irrigation has begun. Small grains at all stages from heading out to turning color. Winter wheat 95% last year, and 99 average. Planting corn and dry beans throughout State. Cutting of grain and alfalfa hay remain active. Planting and harvesting sugarbeets. Irrigation and cultivation continues throughout the State. Harvest begun for Bing, Tartarian and Larian cherry varieties. Grape treated for cutworms in Napa Valley area--first sulfur application made. Still some thinning of stone fruits. Harvest of early peach and nectarine varieties begun in southern San Joaquin Valley. In northern Sacramento Valley peach trees dying at alarming rate. Early estimate of 10% tree loss may be low. Light harvesting of summer grapefruit--fair quality prevailing. Lemon harvest about 90% complete in Central Valley. Harvest heavy in southern Coastal area. Navel orange harvest quite active in season's closing weeks. Heavy product elimination due to very mature fruit. Valencia harvest commenced in all areas, with emphasis on export orders. Quality good--size small. New growth in almonds and walnuts due to warmer temperatures. Walnuts treated for peach twig borers and codling moth. Pecans have set fruit--crop appears lighter than previous season. Artichoke, asparagus harvest light. Broccoli supplies heavy, quality good. Cantaloup harvest starting in Desert. Cauliflower good supply quality variable. Celery harvest active South Coast started Santa Maria-Oceano area. Lettuce harvest light Central Coast, ending San Joaquin Valley. Spring potato volume increasing, good quality. Strawberry harvest very active. Transplanting sweetpotatoes. Harvest market tomatoes starting Desert. Planting processing tomatoes late areas. Higher temperatures, dry winds continued mature range feed. Livestock movement summer pastures, market increasing. Sheep being moved into harvested oat fields San Joaquin Valley.

COLORADO: Very wet, cold weather dominated the week. A major storm on 17th produced blizzard conditions in north and central mountains and Foothills. Wind 20 to 40 mph with gusts to 60 mph in northeast Foothills. Additional storms on 20th and 21st. Temperatures 10 to 20° below normal. Precipitation in Rio Grande Basin 0.20 in., in other basins 1.40 to 1.80 in.

Winter wheat in excellent condition: 67% jointed, about normal; 2% headed, last year 19%, average 10%. Spring fieldwork has nearly caught up to normal progress. Corn in fair to good condition: 64% planted, last year 80%, average 72%; 11% emerged, norm 30%. Sorghum in fair condition: 11% planted, last year 26%, average 15%; no emergence. Barley, oats, and spring wheat in good condition. Barley 96% seeded; 85% emerged, last year 86%, average 80%. Spring wheat 80% seeded, last year 94%. Oats 70% seeded, last year 86%, average 87%. Days suitable for fieldwork: 2.0. Topsoil moisture adequate except in southeast. Subsoil moisture adequate Statewide. Range and pasture condition good. Livestock in good condition.

FLORIDA: Except for some scattered showers and thunderstorms, north and west early week, conditions continued warm, dry and sometimes breezy. Rainfall averaged 1.00 to 2.00 in. over sections of north. Temperatures averaged near seasonal norms. Soil moisture short south, central, parts of north, mostly adequate, remainder of north and west.

Corn fair progress, 3 weeks later than normal. Tobacco improving with warmer weather. Peanut planting nearing completion, soybean

planting gaining. Wheat harvest getting underway this week. Sugarcane good progress. Haymaking continues. Pasture conditions fair to good Statewide. Growth has been slow, most Panhandle, northern localities due to unseasonably cool night temperatures. Cattle mostly fair to good condition. Citrus grove condition good, but dry. Rain needed all areas, all irrigation equipment being used, sick and diseased trees showing stress. Valencia orange harvest active. Fair, dry weather continued in vegetable areas. Rainfall limited to a few light, widely scattered showers. Daytime highs in upper 80's; nighttime lows in lower 70's. Irrigation heavy to maintain soil moisture. Total shipments increased 27% from previous week. Harvest gained celery, sweet corn, cucumbers, eggplant, escarole, okra, onions, peppers, potatoes, radishes, Southern peas, tomatoes and watermelons. Supplies about steady carrots. Volume decreased snap beans, cabbage, Chinese cabbage, lettuce, parsley, squash and strawberries. Commercial harvest of strawberries complete Hillsborough-Manatee area. Watermelon harvest continues slow increase. Fair supply of fairly good quality, size melons available.

GEORGIA: Weather seasonally mild, with tremendous contrasts in rain amounts. Temperatures in southwest portion of State ranged from near normal to 2° above normal. Remainder of State was generally near normal to 3° below normal. Rainfall in northern quarter of State averaged 2.00 to 4.00 in. Elsewhere, 1.00 to 2.00 in. fell in southwest portion, and less than 1.00 in. in remainder of the State. The 20th to 22nd warm. Rainfall 1.00 in. extreme northern portion, 2.00 in. northwest. Elsewhere rainfall spotty and light.

Soil moisture 22% short, 55% adequate, 20% surplus. Conditions suitable for fieldwork on 4.3 days. Main activities: Planting, spraying, and haying. Corn 98% planted, last year and average 99%; condition 54% fair, 40% good; sidedressing continues. Cotton 85% planted, last year 89%, average 88%; condition 47% fair, 47% good; squaring 0%, equal last year, but average 2%. Peanuts 92% planted, last year and average 91%; condition 5% poor, 37% fair, 56% good; "cracking time" spraying very active; blooming 0%, last year and average 2%. Soybeans 35% planted, last year 31%, average 36%; condition 44% fair, 49% good, 4% excellent. Grain sorghum 37% planted, last year 46%, average 39%; condition 51% fair, 47% good. Watermelons 97% planted, same as last year, average 96%; condition 7% poor, 62% fair, and 29% good. Peach harvest began extreme south, 1% picked, last year 9%, average 2%; condition 41% very poor, 17% poor, 23% fair, and 17% good. Apple condition 25% very poor, 30% poor, 33% fair, and 12% good. Wheat 98% headed, 3% harvested, last year 11%, average 5%; condition 5% very poor, 11% poor, 51% fair, and 32% good. Rye condition 6% very poor, 9% poor, 53% fair, 31% good. Other small grains condition 6% poor, 46% fair, and 44% good. Pastures 4% poor, 33% fair, 60% good.

HAWAII: Weather favorable for crop development throughout State. Rain mixed with periods of sunshine and warmer temperatures continued to improve crops in areas previously affected by dry conditions. Production of leafy vegetables continues moderate to heavy. Rain in major banana and papaya growing areas aided orchard and fruit conditions. Papaya production will increase gradually. Pineapple and sugarcane harvesting gain momentum.

IDAHO: Temperatures remained below normal, however, locations in the west were nearer to normal. Moscow was the only station to report in above average by 2°. The rest of the State varied from

2° below normal at Parma to 11° below normal at Pocatello. Precipitation was spotty. The southwest valleys, the Upper Snake River Plains, and the Panhandle registered from 0.10 to 0.33 in. below average. The Magic Valley and the southeast had a surplus of moisture by as much as 0.50 in.

After a slow start early in the week, farmers returned to the fields as an average 4.0 days were judged suitable for fieldwork. Spring wheat seeded topped 90% of the crop versus 97% last year and 97% average. Emergence for spring wheat reached 78% compared with 87% for 1982 and 79% average. Barley seeded advanced to 75% trailing last year's 94% and the average 92%. Barley emergence stood at 58%. Potatoes climbed to 66% planted, 12 points behind last year and 6 points behind average. Dry bean planting topped 12% versus 10% last year. Corn planted reached 75% compared to 76% last year. Sugarbeet thinning was complete on 13% of the acres, livestock were in good condition. Range and pasture growth continued at a slow pace due to cold temperatures.

ILLINOIS: Temperatures averaged 2 to 6° below normal. Precipitation light to moderate north and central, heavy south.

Soil moisture 1% short, 39% adequate, 60% surplus. Days suitable for fieldwork: 2.0. Corn 69% planted, 1982 97%, average 77%. Soybeans 21% planted, 1982 66%, average 39%. Winter wheat 45% headed, 1982 70%, average 55%; 7% filled, 1982 13%, average 14%; condition 8% excellent, 71% good, 19% fair, 2% poor. Oat seeding virtually complete; condition 7% excellent, 67% good, 21% fair, 5% poor. Alfalfa condition 11% excellent, 71% good, 17% fair, 1% poor; less than 5% first crop cut, 1982 14%, average 12%. Pasture condition 23% excellent, 70% good, 7% fair. Livestock in good condition.

INDIANA: Temperatures ranged from near normal north to 2 to 4° below normal in south. Coldest mornings were in mid to upper 30's north on 17th and in 40's elsewhere. Highest readings came on the weekend and were in the low and mid 70's. Precipitation fell mainly on 19th and again late 21st and 22nd. Totals ranged from a 0.50 to over 3.00 in. and averaged 0.75 to 1.00 in. Soil moisture continues abundant most areas and excessive in south. Some lowland flooding continues in south due to local heavy thunderstorm rainfall. Bare soil temperatures averaged in the upper 50's to mid 60's. Growing degree days lagged normal by 10 to 20 with weekly totals accumulating from 124 to 166.

Fieldwork averaged 2.4 days. Topsoil and subsoil moisture were adequate to surplus. Spring cropland 90% tilled, 1982 97%. Corn 50% planted, 1982 96%, average 60%. Corn 30% emerged, 1982 80%, average 40%. Soybeans 15% planted, 1982 70%, average 25%. Soybeans 5% emerged, 1982 40%, average 10%. Wheat good condition. Wheat 15% headed, 1982 40%, average 55%. Wheat 65% in boot. Wheat 20 in. tall, 1982 18 in., average 20 in. Oats 98% seeded, 1982 100%, average 98%. Oats 6 in. tall, 1982 6 in., average 6 in. Alfalfa hay 5% cut first time, 1982 10%.

IOWA: A cool, cloudy, wet week. Temperatures warmed from frost or freeze northwest on the 15th into the 70's over most of the State late week. Keokuk measured 77° the 20th. Temperatures average 5° subnormal. Precipitation fell over most of the State the 17th, 18th and 19th and scattered thereafter. Heaviest rains totaled 5.00 in. in Marshall and Hardin counties. Soils cold and evaporation amounts averaged from 0.09 to 0.12 in. per day.

Day suitable 2.4. Plowing completed 90%; 100% last year; 100% normal. Fertilizer applied 90%; 94% last year; 100% normal. Oats emerged 82%; 99% last year; 98% normal. Corn

planted 82%; 69% last year; 83% normal. Corn emerged 25%; 52% last year; 45% normal. Soybeans planted 16%; 13% last year; 38% normal. Soybeans emerged 2%; 4% last year; 2% normal. Topsoil moisture 22% adequate; 78% surplus. Subsoil moisture 33% adequate; 67% surplus.

KANSAS: Temperatures averaged 53° northwest, 62° southeast, 55 to 60° elsewhere - 5 to 9° below normal. Precipitation averaged 0.80 in. west central, 2.18 in. south central, 1.03 to 1.73 in. elsewhere. Thunderstorms late 16th northern counties, continuing in some area each day through 21st. Tornadoes north central counties midweek.

Wheat 98% jointed, 99% last year, 97% average; 20% headed, 70% last year, 60% average. Diseases light to moderate central and east. Damage from 14th and 15th freeze western quarter not extensive or severe, some poor fertilization could result. Corn 65% planted, 70% last year and average. Sorghum 4% planted, 10% last year, 15% average. Soybeans 5% planted, 5% last year, 15% average. First cut alfalfa hay 5% complete, 10% last year, 35% average. Alfalfa weevil most areas, damage light west, more severe east. Surface moisture short to adequate southwest, surplus north central and east, adequate elsewhere. Subsoil moisture surplus northeast and east central, adequate elsewhere. Pasture and range remain good to excellent. Only 2.0 days suitable for fieldwork.

KENTUCKY: Another wet week. Highs were mostly in 70's and lows in 50's. Rainfall amounts were heavy exceeding 5.00 in. some areas.

Days suitable for fieldwork 1.0. Soil moisture 95% surplus, 5% adequate. Wet fields and standing water delaying planting and other field activities. Corn 20% planted, last year 90%, average 71%. Soybeans 1% planted, last year 35%, average 19%. Some shifting from intended corn to soybeans or sorghum expected, especially in west. Less than 1% tobacco set, last year 15%, average 7%. About 20% of tobacco plants larger than 4 in., but most fields too wet to set. Wheat 75% heading. Disease problems becoming more prevalent in wheat. Pastures good but would benefit from sunshine.

LOUISIANA: Rainfall average 0.30 to 8.10 in. Temperatures averaged normal to -7°. High 88°, low 51°.

Soil moisture adequate to surplus. Days suitable 2.5. Spring plowing 92%, 95% 1982. Corn planted 96%, 99% 1982, 97% average. Corn emerged 95%, 97% 1982, 94% average. Condition fair to good. Cotton planted 76%, 92% 1982, 83% average. Cotton emerged 58%; 81% 1982, 67% average. Condition poor to fair. Rice planted 86%; 93% 1982, 94% average. Rice emerged 76%, 88% 1982, 90% average. Condition fair. Sorghum planted 81%, 77% 1982, 55% average. Sorghum emerged 70%, 71% 1972, 46% average. Condition fair. Soybeans planted 13%, 32% 1982, 30% average. Soybeans emerged 8%, 21% 1982, 19% average. Condition fair. Sweetpotatoes transplanted 28%, 60% 1982, 57% average. Condition fair to good. Wheat turning color 63%, 90% 1982. Wheat harvested 3%, 10% 1982. Condition fair. Hay first cutting 27%, 36% 1982. Sugarcane condition fair to good. Vegetables rated fair. Pasture condition good. Livestock condition fair.

MARYLAND AND DELAWARE: Temperatures averaged 2 to 6° below normal. Highs in the mid 70's to low 80's western Maryland; mid to high 80's elsewhere. Lows 30's to low 40's. Precipitation ranged from 1.11 to 3.12 in. Heavier amounts fell north and west, on 21st and 22nd, cloudy and rainy with 1.00 to 2.25 in. of rain. Highs 70°; lows in 60's. Highs for 22nd upper 60's, lows in low 60's.

Delaware: Wet soils slowed fieldwork, 3.5 days suitable. Rains 15th, 21st and 22nd created surplus soil moisture severely restricting field entry. Corn acreage planted 75%, last year 90%, average 85%. Soybean acres less than 5%, last year, 35%, average 20%. Small grains remained in good condition. Barley and rye about all headed. Wheat 65% headed, last year 70%. No disease or insect problems. Alfalfa hay cuttings underway.

Maryland: Rains and wet soils delayed fieldwork, 4.0 days suitable. Corn acreage planted 75%, last year 90%, average 70%. Soybeans 15% planted, last year 25%, average 15%. Tobacco transplanted 10%, last year 20%, average 10%. Small grains fair to good. Barley and rye all headed, oats 5% headed, last year 15%. Wheat 50% headed, last year 75%. Vegetable planting slowed but mostly ahead of last year's progress.

MICHIGAN: Below normal spring temperatures continues. Temperatures were 4 to 6° below normal throughout the State. Moderate amounts of rain fell over State this week.

Planting was active early in the week. Statewide 4.0 days suitable for fieldwork. Planting of most crops remains behind last year and normal. Corn planting 50% complete, 90% last year, 70% average. Soybeans 10% planted, 50% last year, 28% average. Oats 90% planted, 100% last year, 96% average. Sugarbeets 97% planted, 100% last year, 99% average. Winter wheat in good condition. Fruit and Vegetable small crops were hurt by frost during the week.

MINNESOTA: Mostly cool with little rainfall most areas. Temperatures averaged 4 to 6° below normal. High: 81°, low 20°. Precipitation averaged 0.20 in. below normal southeast and 0.10 to 0.60 in. below normal elsewhere. Precipitation totals averaged 1.10 in. southeast and 0.10 to 0.70 in. elsewhere. Precipitation totals ranged from 0.02 in. to 1.65 in.

Continued cool temperatures meant slow drying of wet fields in southern third of State and northern Red River Valley. Coolness slowed emergence of corn and delayed planting of soybeans. Pastures and hay began to green up in north, began to grow well in south. Rain badly needed in area of west central which had missed precipitation since fall. Topsoil moisture: 3% very short, 10% short, 49% adequate, 38% surplus. Days suitable for fieldwork: 4.0. Planted: Field corn 66%, 1982 66%, normal 76%; soybeans 18%, 1982 19%, normal 42%; spring wheat 90%, 1982 78%, normal 85%; oats 93%, 1982 88%, normal 90%; barley 86%, 1982 68%, normal 79%; sunflowers 27%, 1982 14%, normal 43%; sugarbeets 93%, 1982 91%, normal 89%; flax 28%, 1982 26%, normal 49%; potatoes 45%, 1982 33%, normal 52%; sweet corn for processing 41%, 1982 40%, normal 47%; green peas for processing 75%, 1982 74%, normal 78%. Emerged: field corn 7%, 1982 30%, normal 26%; spring wheat 64%, 1982 67%, normal 67%; oats 71%, 1982 78%, normal 73%; barley 61%, 1982 51%, normal 60%.

MISSISSIPPI: Numerous tornadoes, widespread wind damage. Rainfall heavy. Greatest 24-hour rainfall 6.42 in. Weekly totals 8.00 to 10.00 in. common. Greatest weekly total 13.63 in. Temperatures 5 to 10° below normal.

Soil moisture excessive to surplus. Planting at standstill. Heavy replanting possible. Fieldwork 1.5 days suitable, 5.9 last year, 4.0 average. Soybeans 14% planted, 34% last year, 25% average; 5% to stand, 12% last year. Cotton 90% planted, 98% last year, 90% average; 60% to stand, 75% last year, 64% average; condition fair to poor. Rice 82% planted, 94% last year, 90% average; 50% to stand, 70% last year, 78% average; condition fair to poor.

Sorghum 38% planted, 56% last year, 42% average. Corn 87% planted, 95% last year, 93% average; 63% to stand. Winter wheat 7% ripe, 10% last year; condition fair to good. Hay harvest 17%. Pasture condition good to fair. Peach condition fair.

MISSOURI: Temperatures on the cool side, averaging 3 to 8° below normal. Rainfall averaged around 0.75 in. but individual storms dumped over 2.00 in. in some areas. The southern half of the Bootheel received between 3.00 to 6.00 in. of rain. Flooding occurred on the Missouri river, and the Mississippi river was above flood stage.

Days suitable for fieldwork: 1.2. Corn 51% planted, 84% last year and 66% normal. Grain sorghum 12% planted, 51% last year and 35% normal. Soybeans 6% planted, 31% last year and 24% normal. Alfalfa hay, 1st cutting, 4% harvested, 23% last year and 23% normal. Cotton 63% planted, 100% last year and 89% normal. Winter wheat 39% headed, 65% last year and 60% normal. Wheat rated 26% good, 60% fair and 14% poor. Pasture condition 8% excellent, 67% good and 25% fair. Topsoil moisture supplies 84% surplus and 16% adequate.

MONTANA: Temperatures averaged 4° below normal in northeast and southeast and 1 to 2° below elsewhere. Precipitation mostly light to moderate, with much of northeast and southeast dry. Heavy snow fell over some southern sections early in week.

Topsoil and subsoil moisture adequate. Winter wheat good condition. Fieldwork, days suitable 2.7. Planting progress this year, last year and average: Spring wheat 90%, 75%, 75%; barley 90%, 80%, 75%; oats 80%, 65%, 70%; corn 60%, 55%, 50%; sugarbeets 85%, 100%, 90%; potatoes 40%, 55%, 45%; dry beans 40%, 55%, 50%. Spring wheat emerged 60%, 45%, 55%; barley emerged 65%, 45%, 55%. Sheep and cattle 45% moved to summer range. Range growth slow.

NEBRASKA: Widespread, steady rains averaged 2.00 in. over Panhandle, south central and southeastern counties. Elsewhere, 1.50 in. Cold temperatures averaged 11° below normal Panhandle; 8° below normal rest of State.

Winter wheat good; jointed 60%, behind 85% a year ago and 80% normal; headed 0%, 10% last year and 15% normal. Corn 65% planted, 45% last year and 85% normal. Sorghum planted 10%, 3% previous year and 30% normal. Soybeans 10% planted, 1% last year and 30% normal. Feedlots muddy. Topsoil moisture surplus. Subsoil supplies mostly surplus to adequate. Days suitable for fieldwork: 2.0.

NEVADA: High pressure system off California coast caused fair and warming skies over most of State. However weak storm system allowed cool and wet conditions to continue in northeast portions. Temperatures were 1 to 6° below normal over State, big improvement over previous week. Warmest temperature 94° at Las Vegas, coolest 24° at Mountain City. Only rainfall reported outside northeast 0.01 in. at Winnamucca. Greatest amount northeast 0.43 in. at Mountain City.

The warmer weather enhanced field and ranch activities. Potato planting nearing completion. Small grain seeding excellent progress. Alfalfa hay harvest active in south. Range and pastures good to excellent. Calving and lambing virtually complete.

NEW ENGLAND: Temperatures ranged from normal along the coast to 10° below normal inland. Precipitation occurred early in the week and during the weekend with over 1.00 in. falling in parts of southern New England.

Planting activity shifted into high gear with an average of 5.0 days suitable for

fieldwork. Grazing availability adequate. Maine potatoes 40% planted, 75% last year, 65% normal. Corn for silage 20% planted. Fruit crops in good condition with no frost injury.

NEW JERSEY: Temperatures averaged 6° below normal. Extremes 29° on the 18th and 80° on the 21st. Rainfall averaged 2.03 in. north, 2.31 in. central and 3.14 in. south. The heaviest 24-hour total 1.82 in. on the 16th to 17th. Estimated soil moisture, in percent of field capacity, averaged 94% north, 89% central and 97% south. Four in. soil temperatures averaged 57° north, 63° central and 63° south.

Fieldwork: 4.8 days suitable. Main farm activities plowing and planting field corn and soybeans. Pasture and hay growth excellent.

NEW MEXICO: Average temperatures 5 to 10° below normal. Scattered showers, thundersotrms by week's end. Precipitation range: none in southern areas, over 2.00 in. northeastern Plains. Minimum temperature: 17°, northern mountains. Maximum temperature: 93°, southeastern Plains.

Cotton planted, 72%, last year, 81%, average, 87%. Alfalfa good condition, cold temperatures may delay cutting, north and east areas. Irrigation wheat, barley good to excellent condition. Dry wheat fair to good. Irrigation wheat 95% headed, dry 90% headed. Small grains turning color, southern areas. Grain sorghum 40% planted. Corn 90% planted. Peanuts 10% planted. Ranges fair to good condition. Cattle, sheep good condition.

NEW YORK: Temperatures subnormal, rainfall mostly light.

Better drying conditions, but many fields still wet. Corn planting 20% done, 27% 1982, 36% average. Oat planting 39% complete, 80% 1982, 76% average. Hay condition good. Good fruit set on Hudson Valley apples. McIntosh, Red Delicious in full bloom. Sweet and Tart cherries, peaches, pears in petal fall stage. Moderate to good set on Hudson Valley pears. Onions, potatoes in different stages of development because of weather-caused planting delays. Localized Long Island frosts caused limited damage. Orleans County muckland vegetables well behind schedule in development.

NORTH CAROLINA: Temperature near normal to slightly below normal Statewide. Precipitation spotty.

Soil moisture: 10% short, 77% adequate, 13% surplus. Day suitable for fieldwork: 5.0. Condition: Small grains mostly good. Tobacco plant beds: 2% poor, 50% fair, 48% good. Irish potatoes 8% poor, 36% fair and 56% good. Peaches: 56% poor, 30% fair and 14% good. Pasture: 20% fair, 70% good and 10% excellent. Truck crops: 5% poor, 37% fair, 58% good.

Flue cured tobacco 75%, 93% 1982, 85% average. Burley tobacco 11%, 30% 1982, 21% average. Corn 95%, 99% 1982, 97% average. Peanuts 68%, 89% 1982, 74% average. Cotton 78%, 93% 1982, 93% average. Sweetpotatoes 27%, 30% 1982, 25% average. Soybeans 30%, 42% 1982, 35% average. Sorghum 34%, 62% 1982, 42% average. Major farm activities: Transplanting tobacco, planting corn, soybeans, peanuts and sweetpotatoes, land preparation, sidedressing tobacco, applying herbicides and cutting small grain hay.

NORTH DAKOTA: Temperatures averaged 4 to 8° below normal. Freezing temperatures were still recorded at most stations. District averages ranged from 45° north central to 50° south, extremes were 17° northeast to 80° east. Precipitation below normal except in central district where average was slightly above normal. Averages from 0.07 in. northeast to 0.59 in. central. Isolated thunderstorms on 21st brought locally heavy amounts south.

Spring planting resumed in all areas by midweek after being halted by snow and rain a week earlier. Progress for small grain seeding continued ahead of average. Cool temperatures limited crop development. Durum wheat emergence about one week behind average. Moisture supplies excellent with only 1% of State short of topsoil moisture. Wild oats becoming a problem. The percent seeded along with last year and average was: Hard red spring wheat 76, 59, 67; durum wheat 60, 53, 60; barley 79, 69, 68; oats 73, 55, 63; sunflower 11, 9, 21; flax 27, 13, 22; corn 38, 23, 33; soybeans 48, 56, 37; potatoes 43, 54, 58; and dry edible beans 21, 15, 31.

OHIO: Temperatures mostly 2 to 4° below normal. Lows upper 40's to lower 50's; highs mid to upper 60's. Precipitation close to 1.00 in.; 0.20 to 0.40 in. above normal. Heaviest precipitation south central - 2.00 to 3.00 in. Growing degree days 60 to 80 north; 80 to 90 south. Soil temperatures averaged 50's to 60's.

Cold, wet conditions slow germination, growth of crops. Crops stressed by surplus moisture, yellowing. Some corn acreage being replanted. Tobacco transplanting started. Virtually no hay harvested. Corn, oats condition fair, hay fair to good. Wheat and pasture good. Corn planted 50%, 100% 1982, 70% average. Corn emerged 25%, 75% 1982. Soybeans planted 15%, 85% 1982, 45% average. Oats planted 95%, 100% 1982, 100% average. Oats emerged 80%, 90% 1982. Wheat jointed and beyond 80%. Wheat headed 5%, 15% 1982, 5% average. Days favorable 2.5. Pasture condition good. Soil moisture 27% adequate, 73% surplus.

OKLAHOMA: Average temperatures 7 to 10° sub-normal. Precipitation ranged 1.00 in. Panhandle region to 3.45 in. southeast region.

Rain and cool weather slowed crop development and field progress. Wheat in good condition. Wheat headed: 85%; 95% 1982; 95% average. Sorghum planted: 20%, 15% 1982; 25% average. Cotton planted: 20%, 10% 1982, 20% average.

OREGON: Rainfall 0.30 in. north; 0.25 in. south; up to 1.13 in. in Cascades. Temperatures 2° above average west; 2° below east.

Winter wheat fair to good west; good to excellent east; 32% headed; 15% last year; 26% average. Haying in full swing. Silage corn being seeded. Pears and apples look good; thinning and cover sprays going on. Strawberry harvest to start within a week. Caneberries blooming. Cranberries in early bloom. Leaf roller sprays going on filberts. Potato planting in late areas in full swing. Hail damage to Malheur County onions. Asparagus harvest continues. Processing vegetables still going in. Livestock, range and pastures good to excellent shape.

PENNSYLVANIA: Colder and wetter than normal. The average temperature of 54 was 5° below normal. A few locations in the central and northern sections had frost on the 17th and 18th. Extremes were 78 and 26°. Average precipitation of 1.42 in. was 0.60 in. above normal. The southern parts of the State received the most rain.

Days suitable: 3.0. Moisture surplus to adequate. Activities: Plowing; spreading fertilizer; spraying; cutting rye for silage and green chop; harvesting asparagus; and planting oats, corn, potatoes, soybeans, and alfalfa. Plowing 80% complete, last year 92%, average 89%. Oats 90% planted, last year virtually complete. Soybeans 12% planted, last year 33%. Potatoes 70% planted compared with 84% last year. Corn 44% planted, last year, 75%, average 60%. Barley 30% headed, last year 49%. Wheat less than 5% headed, last year 15%. Hay stand conditions good to fair. Feed from pastures mostly

average. Peaches virtually all in full bloom or past, same as last year. Cherries virtually all in full bloom or past, same as last year. Apples virtually all in full bloom or past, last year 94%.

PUERTO RICO: Island average rainfall 4.06 in. or 2.41 in. above normal. Highest weekly total 12.37 in. Highest 24-hour total 4.70 in. Temperature averaged about 80 to 79° on Coasts and 74 to 72° Interior Divisions. Mean station temperature ranged from 81.7 to 65.4°. Extremes 95 and 57°.

SOUTH CAROLINA: Temperatures below normal in northwest but near seasonal levels elsewhere. Rainfall ranged from excessive in mountains and Foothills to practically none elsewhere.

Soil moisture short to adequate. Days suitable for outside work: 5.2. Corn cultivated where weeds required control, crop grown to fair to good condition. Cotton emerging well despite cool nights, condition fair to good; 97% planted, 99% last year, 94% average. Some soybean planting held up awaiting rains, condition fair to good; planted at 18%, 30% year ago, 35% average. Tobacco virtually all transplanted, insects approaching levels needing control; conditions variable, averaging fair. Wheat developing well behind usual, condition fair; 37% turning color compared to 74% last year, 83% average. Tomatoes responding to favorable growing weather, condition fair to good.

SOUTH DAKOTA: Average temperatures 3 to 7° below normal. Extremes: 21 and 81°. Rainfall generally light, few locations along southern border received over 1.00 in.

Days suitable for fieldwork: 4.0. Topsoil moisture supplies mostly adequate or surplus. Small grain seeding nearly completed. Fertilizer applications needed on yellowing winter wheat. Fieldwork still slow in southeastern third. Other activities were herbicide applications and branding of calves. Crop growth and maturity slowed by cool, cloudy weather. Calving and lambing over 90% complete. Seventy percent of cattle moved to pasture. Spring wheat seeded 96%, 1982 95%, average 97%. Barley seeded 93%, 1982 94%, average 96%. Oats seeded 84%, 1982 97%, average 97%. Spring wheat emerged 85%, 1982 87%, average 94%. Barley emerged 77%, 1982 87%, average 93%. Oats emerged 64%, 1982 91%, average 94%. Corn planted 35%, 1982 41%, average 64%. Flaxseed planted 38%, 1982 52%, average 67%. Sorghum planted 1%, 1982 3%, average 17%. Winter wheat 24% boot, 1982 36%, average 39%. Winter rye 36% boot, 1982 42%, average 42%. Winter wheat 0% headed, 1982 0%, average 8%.

TENNESSEE: Rains fell across the State during most of the week. Precipitation averaged 6.00 in. in the west, 8.00 in. in the middle, 3.00 in. in the east. Flash flooding occurred in the west and middle. Temperature averages were in the 60's.

Days suitable for fieldwork: 1.0. Soil moisture 89% surplus, 11% adequate. Tobacco in fair condition. Tobacco set 8%, 1982 41%, average 34%. Soybeans planted 3%, 1982 25%, average 23%. Wheat in fair condition. Wheat headed 83%, 1982 96%, average 93%. Some low lying wheat is under water. Corn planted 47%, 1982 88%, average 79%. Cotton planted 58%, 1982 91%, average 85%. Alfalfa hay cut 23%, 1982 71%, average 62%. Pastures in good condition. Livestock good.

TEXAS: Week highlighted by scattered thunderstorms. Temperatures below normal over all; Lower Valley, Trans-Pecos regions, near normal. Precipitation above normal across Edwards

Plateau, north central portions, much above normal East Texas, Upper Coastal Plains. Below normal amounts found elsewhere.

Crops: Beneficial rains received State, relieving stress. Hail, high winds accompanied rain, some damage received. Planting of field corn made good progress, aided by rain. Despite rainfall, moisture remains short in some areas. Cotton planting made steady progress. Blacklands, Cross Timbers stand improved, making good growth. Central, South Texas, development slow, should pick up with additional moisture. Fields in Rio Grande Valley continue to receive irrigation, squaring. Sorghum planting remained active. Stands in good condition following showers. Growth uneven due to moisture stress. Spraying underway for greenbugs, yellow aphids. Hail, wind damage reported. South Texas, Rio Grande Valley, fields developing well under steady irrigation. Blacklands, Cross Timbers, stands showing good growth. Planting High Plains delayed by cool temperatures. Corn planting nearing completions. High winds caused some lodging, hail damage also reported. South Texas, Coast, fields developing rapidly, many tasseling. Small grains developing rapid harvest getting under way South Texas, Coast. Yields of harvested fields good. Grazing, baling of PIK acres continues. Reported wheat condition is 77% of normal compared with 68% a year ago. By week's end, 14% excellent, 46% good, 30% fair, 10% poor. Peanut planting slowed by rain South Texas. Preplant activities continued other areas. Rice developing slowly, warmer temperatures needed. Weeds becoming problem, control measures underway.

Cotton planted 38%, 1982 37%, 30% average. Cotton squaring 4%, 1982 8%, 10% average. Rice planted 98%, 97% 1982, 98% average. Rice emerged 88%, 1982 89%, 93% average. Sorghum planted all purposes 72%, 1982 70%, 76% average. Sorghum headed 6%, 17% 1982, 15% average. Wheat headed 78%, 91% 1982, 90% average; wheat turning color 25%, 24% 1982, 32% average; wheat harvested for grain 0%, 1% 1982, 2% average. Oats harvested for grain 10%, 5% 1982, 10% average. Corn planted for all purposes 97%, 98% 1972, 98% average. Peanuts planted 17%, 13% 1982, 21% average. Soybeans planted 6%, 5% 1982, 12% average. Sugarbeets planted 100%, 100% 1982, 100% average. Sunflowers planted 29%, 12% 1982, 18% average.

Rio Grande Valley, harvest of watermelons gaining momentum, good volumes beginning to be shipped. Tomatoes, peppers making good growth, cantaloups nearing harvest maturing. Citrus harvest continues to wind down. Coastal Bend, watermelons, cucumbers benefited from showers. Tomatoes continuing to make good growth. San Antonio-Winter Garden, wet conditions slowed growth of some vegetables. Watermelons making good growth, onion harvest continued. East Texas, rains slowed growth of tomatoes, other spring vegetables. Planting of watermelons slowed, some replanting may be necessary. Trans-Pecos region, cabbage, cantaloups, onions making good growth. Some wind damage. Plains, onions, potatoes developing well, irrigation continuing. Fields expected good. Peaches making good growth, fruit developing well. Some losses to high winds, hail. Pecans developing well, moisture stress may affect yields. Producers on alert for casebearers, ready to begin spraying.

Range and livestock: State received scattered showers. Despite rainfall, pastures in some areas still in need of moisture. Range, pasture condition improved, range and pastures stressed in South Central Texas, Rio Grande Valley. Livestock condition good to excellent, supplemental feeding being recuded. Small grains continue to provide grazing, good supplies of hay.

UTAH: Recurring periods precipitation most of State, ranging zero or light south to very heavy

north. Temperatures averaged 10° below normal ranging 14 to 5° below. Ninth consecutive week below normal temperatures averaging 5.4° below normal for period.

Planting continued well behind normal. Some small grain acreage will be abandoned. Spring wheat 67% seeded, normal 100%. Barley 63% planted, normal 100%. Corn 10% planted, normal 60%. Flooding and high water tables continued to cause losses. More flooding expected as heavy snowpack melts. Fruit bloom heavy, but pollination of early blooming varieties questionable. Livestock in fair condition following cool, wet spring. Death losses above normal. Movement to high elevation pastures delayed by slow feed growth and snow cover. Hay supplies nearly gone.

VIRGINIA: Temperatures during the period average slightly below normal with scattered frost reported in some western and northwestern areas. Extremes from around 30° to the upper 80's. Generous rainfall at beginning and end of week brought from 1.50 to 2.50 in. over most of State.

Cool, wet weather slowed germination, plant growth and limited fieldwork. Topsoil moisture rated 1% short, 76% adequate, 23% surplus. Days suitable for fieldwork 3.0. Rains on 22nd brought most field activities to a standstill. Fertilizing, spraying activities slowed corn and soybeans. Corn seeding 80% complete, 88% 1982, 82% average. Soybean seeding 19% complete, 29% 1982, 23% average. Peanut seeding normal; 94% complete, 99% 1982, 86% average. Tobacco transplanting slow. Beds good with fungicide, herbicide and insecticide application active. Flue-cured 34% set, 64% 1982, 46% average. Fire-cured 14% set, 30% 1982, 23% average. Burley 3% set, 23% 1982, 12% average. Sun-cured 8% set, 16% 1982, 20% average. Small grains heading. Condition reported good. Actively spraying for cereal leaf beetle when weather allows.

WASHINGTON: A low pressure system with cool temperatures and plenty of moisture moved slowly across the State during the first half of the week. Above average amounts of rainfall were reported by most stations and temperatures were well below normal through the 18th. But a large and dry high pressure system began to build off the coast and significant warming began late in the week as the high began to move inland. Weekly average temperatures only slightly below normal were the result.

Planting potatoes, spring grains, field corn and other spring crops nearly complete. Average to above average condition. Foot rot and leaf rust, but no major problems. First cutting of hay in southeastern counties gaining momentum. Swathing in northern counties one week away. In western counties, dairymen completed first cutting grass silage, some beginning with the second cutting. Limited cold damage in Chelan County orchards. Fruit development normal. Fruit thinning continues. Spraying cherry fruit fly has just gotten underway. Prospects good for all fruit crops. Berry crops in various stages. Strawberries beginning to size, development nearly a week ahead of normal. Harvest field rhubarb, spinach, radishes and asparagus continued. Leaf lettuce harvest may start next week. Spraying and blocking early broccoli in Skagit County. Sweet corn planting completed in some areas; green pea planting continues. Cauliflower beginning to emerge as were seed crops. Range and pastures in good condition with adequate feed supplies. Most livestock on spring pastures. In the eastern counties, PIK participants turning livestock out in wheat fields.

WEST VIRGINIA: Temperatures averaged below normal across the State. Low 23°, high 84°. Precipitation averaged above normal. Range 1.90 to 5.05 in.

Soil moisture surplus to adequate. Days suitable for fieldwork averaged 1.9. Main activities: General maintenance, plowing, gardening. Wheat: good to fair condition with 54% pre-jointed, 42% jointed and 4% heading; 15%, 55% and 30% last year. Barley: Good to fair condition with 26% pre-jointed, 42% jointed and 32% heading; 10%, 37% and 53% in 1982. Oats: Fair to good condition, 89% planted and 61% emerged; 92% and 78% in 1982. Corn: Fair to poor condition; 51% planted and 15% emerged; 79% and 43% in 1982. Tobacco: fair condition; planting completed, 85% emerged, 3% set; 100%, 75% and 15% in 1982. Hay in fair to good condition. Pasture in good to fair condition. Peaches poor to fair. Apples fair to poor. Gardens fair, wet, cool conditions slow crop progress.

WISCONSIN: The week started out cold with some light snow reported in north central districts and northeast early morning on 16th. Highs were in the 50's on 16th moderating to the mid 60's to low 70's by the weekend. Lows were in the upper 20's and 30's early 16th warming to the mid 40's to low 50's by the weekend. The high temperature was 75° on 21st in Eau Claire. The low was 22° on 17th morning in Ashland. Light showers occurred everyday of the week in some

part of State heavier rains fell 19th, 21st night and 22nd. Weekly rainfall totals in excess of 1.50 in. were common place in all but the northwest corner of the State. Richland Center in the southwest district picked up 4.26 in.

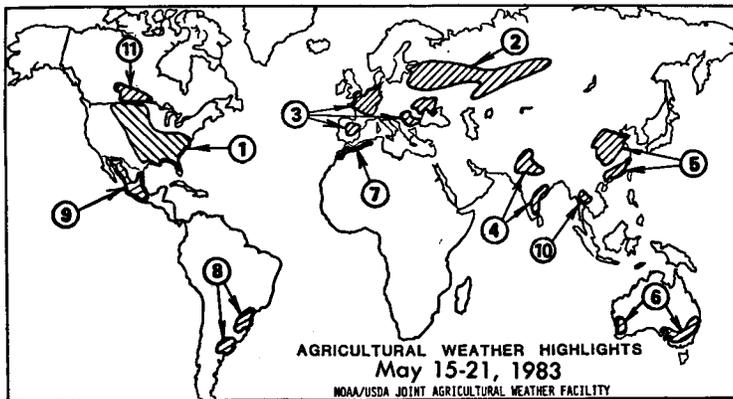
Days suitable for fieldwork: 5.0. Soil moisture 5% short, 60% adequate, 35% surplus.

WYOMING: Temperatures well below normal. Readings from 6° below normal north to 14° below north south. Precipitation much above normal over southeast. Western third and south central also above normal while northeast and north central below normal.

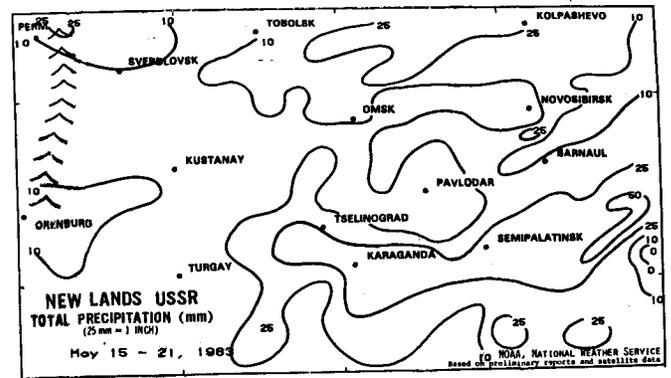
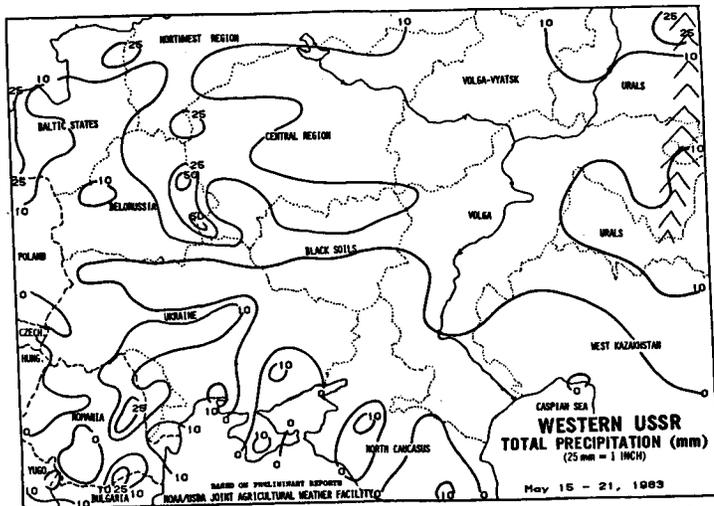
Topsoil moisture adequate Statewide. Days suitable for fieldwork: 2.0. Spring snowstorm halted fieldwork in southeastern areas. Spring wheat planted 85%, emerged 40%. Oats planted 60%, emerged 40%. Barley planted 70%, emerged 50%. Corn planted 45%, emerged 5%. Sugarbeets planted 65%, 20% emerged. Potatoes planted 25%. Dry beans planting starting. Winter wheat mostly good condition. Some freeze damage in southeastern areas. Livestock mostly good condition. Calf, lamb losses mostly normal except for heavy losses in area hardest hit by spring storm. Spring calving 95% complete. Farm flock: Ewes lambled 95%; shorn 90%. Range sheep: Ewes lambled 75%; shorn 80%. Ranges, pastures mostly good condition. Spring grazing prospects mostly good.

International Weather and Crop Summary

May 15 to 21

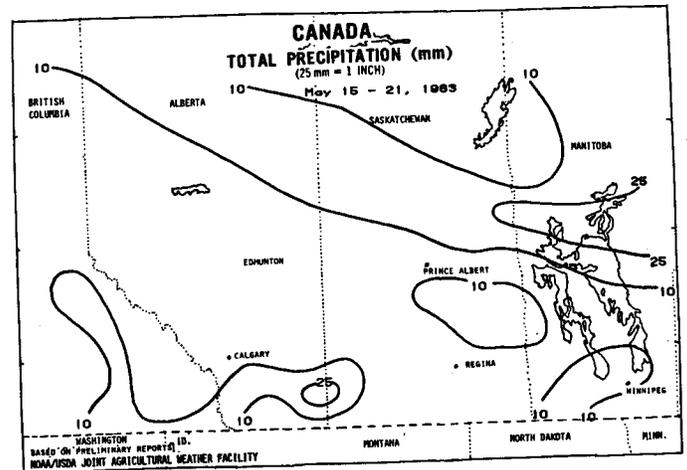
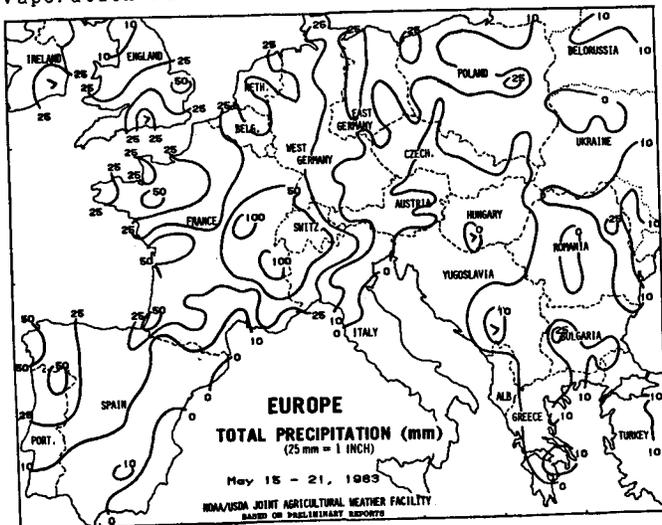


1. UNITED STATES ... Torrential rains cause widespread flooding from East Texas to Kentucky, destroying some crops and eroding fields. Coolness across the central Plains maintains slow development of wheat, while sunny, drying conditions favor field activities in California, the northern Plains, and parts of the Southeast.
2. USSR ... Showers benefit crops in the northern half of the western USSR, the central Ukraine, and the southern Ukraine. Cold, wet weather delays spring grain planting in the New Lands.
3. EUROPE ... Unfavorably wet conditions continue to cover crop areas in the northwest. Localized night frosts may have occurred in northern and central Spain. Dry weather continues to stress crops in the southeast.
4. SOUTH ASIA ... Locally heavy storms cause additional damage to unharvested wheat in northern India and Pakistan. Premonsoon showers continue as summer crop planting awaits the wet season's arrival.
5. EAST ASIA ... Heavy rains and possible flooding continue to damage south coastal rice. Rain benefits cotton and grain areas.
6. AUSTRALIA ... Torrential downpours flood cotton and sorghum areas of south-central Queensland, damaging mature summer crops. Conditions are dry in the wheat belt but are becoming too dry in the west.
7. NORTHWESTERN AFRICA ... Light showers cover winter grain in the late filling stage in Morocco, while dry weather continues to stress crops in Algeria and Tunisia.
8. SOUTH AMERICA ... Drier weather, following early-week heavy rain in southern Brazil, southern Paraguay, and northeastern Argentina, improves conditions for rain-delayed soybean harvest and helps reduce flood potential. More dry weather is needed.
9. MEXICO ... Dryness over most of the country and unseasonable heat over the northeast stress crops and livestock.
10. SOUTHEAST ASIA ... Showers decrease in Thailand. Conditions are still too dry for corn and rice planting in the Central Plains.
11. CANADA ... Milder weather with at least periodic dryness improves conditions for planting, germination, and emergence of spring crops. Planting progress is well behind that of last year and the average pace.



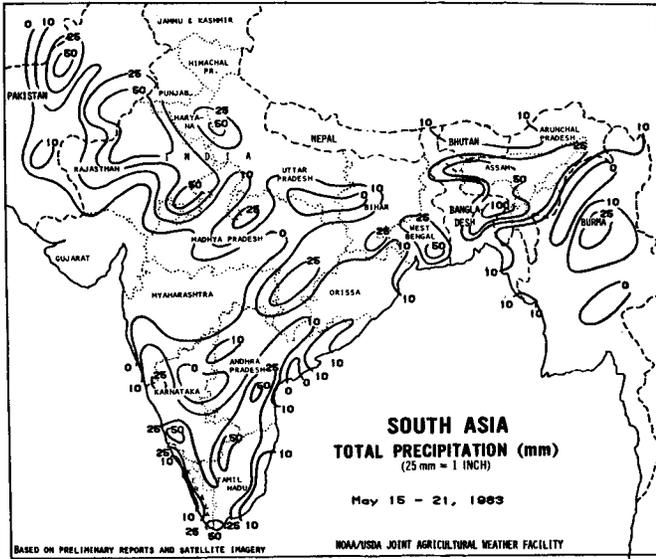
USSR...The generally dry weather conditions which covered Western USSR early in the week gave way to cooler, wetter weather over most crop areas by week's end. The showers which covered the northern half of Western USSR benefited winter grains and spring sown crops. Light rain also benefited crops in the central and southern Ukraine. In contrast, hot, dry weather covered crops in the eastern Ukraine, southern Black Soils, southern Volga Valley, and North Caucasus. Winter grains are normally in the heading stage in southern growing areas, and summer crops such as corn, sugarbeets, and sunflowers have emerged over most of the south. Seasonably mild, wet conditions are needed as temperatures this past week were 2-5°C above normal, increasing evaporation rates.

In the New Lands, rain and snow showers covered most spring grain areas with heaviest amounts (25-50 mm) covering the south and east. In addition, unseasonably cold air accompanied the precipitation with subfreezing minimum temperatures reported over most of the region by week's end. The cold, wet weather likely delayed spring grain sowing which normally takes place after May 15. Warm, dry conditions are needed to allow planting operations to resume. In south-central USSR cotton areas, the cold weather which covered the New Lands plunged southward into the region on Saturday, but minimum temperatures remained above freezing. The unseasonably cold weather conditions will likely slow early cotton growth.

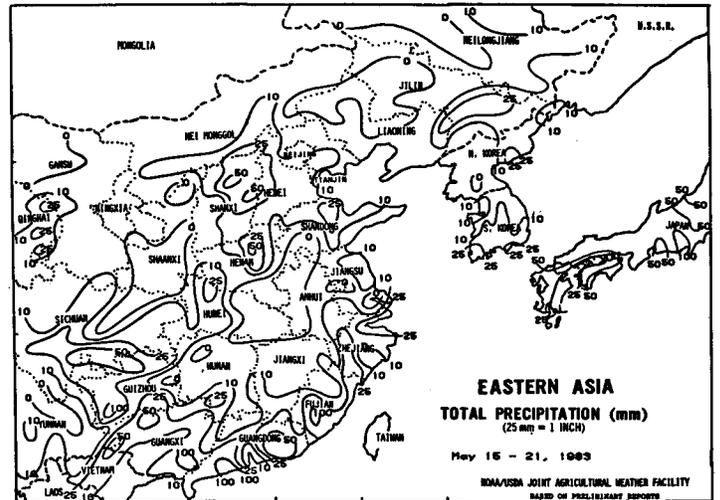


EUROPE...Wet weather continued over England, France, the Netherlands, Belgium, and much of West Germany. The heaviest amounts of rain (50-100 mm) fell on eastern France which likely produced localized flooding, inundating fields. Dry weather is needed in all areas. In the Iberian peninsula, showers benefited the western half of the region, but by week's end, near-freezing minimum temperatures were reported over much of northern and central Spain. Localized frosts were possible, particularly in low-lying fields. Elsewhere, dry weather stressed winter grains in southern Italy, while frequent showers benefited those further north. In the southeast, light rain benefited winter grain areas in eastern Romania, but most winter grain areas of southern Romania, northern Bulgaria, and eastern Yugoslavia continued unfavorably dry.

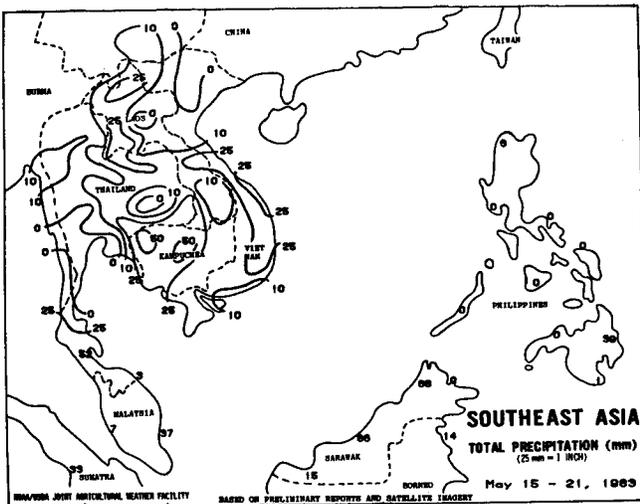
CANADA...Scattered showers covered much of the Prairie Provinces during the week. However, weekly rainfall was generally less than 10-15 mm within the crop areas except in extreme southern Alberta. Spring crop seeding progress should have improved in most areas with milder and, at least periodic, dry weather. The current seeding pace is well behind last year's progress as well as the average planting schedule due to the cold, wet spring. Warm, dry weather is needed to dry fields and complete crop plantings within the optimum period for crop development. This optimum planting period ends by early June. Soil moisture conditions are favorable for crop development at present throughout most crop areas of the Canadian Prairies. The recent mild weather will aid crop germination and emergence.



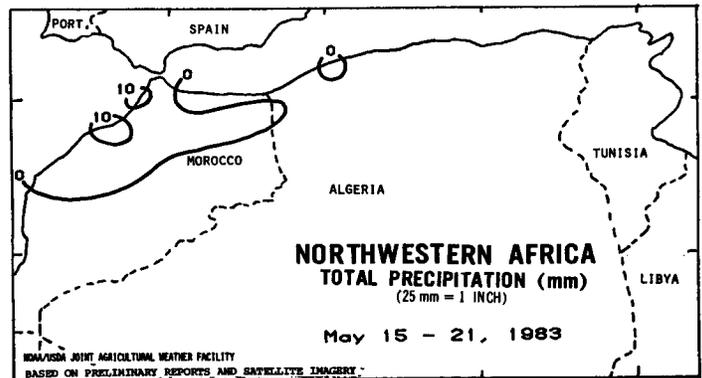
SOUTH ASIA... Persistent localized storms in northern India and Pakistan continue to bring heavy rain, possibly damaging that portion of the winter wheat crop still being harvested. Scattered premonsoon showers remain over peninsular India; however, accumulations are below normal in the south and on the west coast. The lack of moisture could indicate a delayed arrival of the monsoon, which has made no significant northward advance in the past few weeks. A late wet season would postpone cotton and groundnut planting, which normally begins in June. Moderate showers in northeastern India benefited summer rice in the late vegetative stage, but heavy rains inundated the upper elevations of Bangladesh.



EAST ASIA... Heavy precipitation again this week likely caused flooding in Guangdong and Fujian, while moderate to heavy amounts fell in Sichuan and Guizhou. The persistent rains have forced some replanting of rice. The Yangtze Valley was beneficially dry for early growth of cotton and rice, relieving the flooding rains of the past few weeks. In the North China Plain, moderate precipitation benefited wheat in the reproductive stage and cotton in the vegetative stage. The Manchurian Plain was relatively dry; however, moisture conditions for emerging corn and soybeans are favorable. Light to moderate showers fell over most of Korea, benefiting barley in the reproductive stage.



SOUTHEAST ASIA... Shower activity decreased and was relatively light in Thailand, with most precipitation falling during the first part of the week. Northeastern Thailand was the only area to receive significant amounts (25 mm). Although premonsoon showers began late, delaying corn and rice planting, recent accumulations prior to last week's had been near normal. Satellite data indicated heavy rains in Kampuchea, and moderate rain fell in southern Laos and South Vietnam. Light showers in the northern Philippines brought little relief to the very dry conditions.

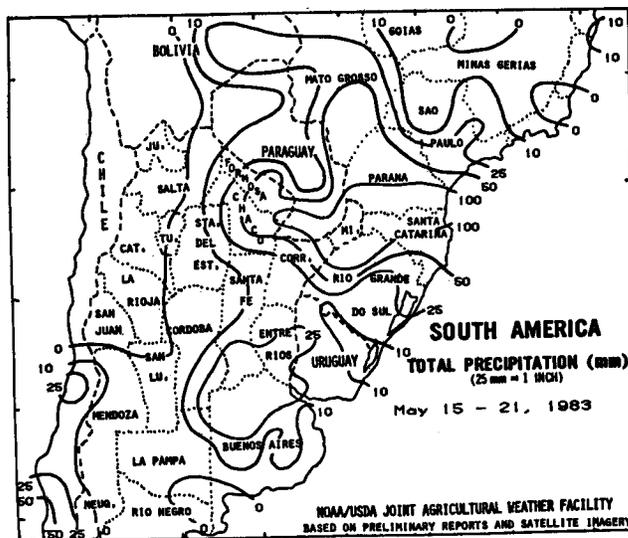
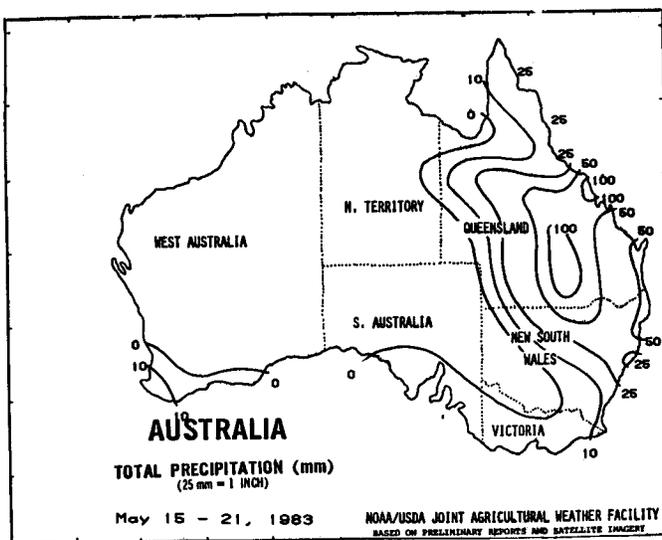


NORTHWESTERN AFRICA... Light showers covered winter grains in Morocco, while dry weather continued over winter grain areas in northern Algeria and northern Tunisia. Most winter grains should be in the late-filling stage so additional rains will have a small impact on yields. In fact, dry weather is needed in the next few weeks as grains mature. Weekly temperatures were below normal in Morocco and continued above normal in Algeria and Tunisia.



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AUSTRALIA...Torrential rain fell over southern Queensland, inundating crop areas which, until last month, suffered from severe drought. The excessive downpours flooded cotton and sorghum areas, likely damaging the mature summer crops. Heavy rain extended into northern wheat areas of New South Wales, but amounts were not as excessively high as in south-central Queensland. Some replanting of wheat may also be necessary in the affected areas. Mostly dry weather covered the remainder of the wheat belt with topsoil moisture adequate for planting and early growth in Victoria and South Australia. In Western Australia, however, rains are needed for wheat planting as topsoils are mostly dry, especially in the northern half of the State's wheat area.

SOUTH AMERICA...Heavy rain fell again early in the week in southern Brazil, southern Paraguay, and extreme northeastern Argentina. The excessive moisture further aggravated the flooding problem which has delayed Rio Grande do Sul's soybean harvest (20-30 percent unharvested) and caused extensive damage along the river systems extending into Argentina. The quality of unharvested soybeans has deteriorated with reported bean sprouting. Yield reductions are also expected in Rio Grande do Sul and in Paraguay due to excessive rains during the harvest season. Dry weather is needed not only to finish harvesting but also to alleviate serious flooding in Argentina which caused heavy losses of cotton, rice, and other crops in the northeast. A storm system produced significant rain late in the week over the wheat areas of southern Cordoba, southern Santa Fe, and much of Buenos Aires, aiding wheat planting but slowing the late soybean harvest.

(continued on p. 2)

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