

# 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

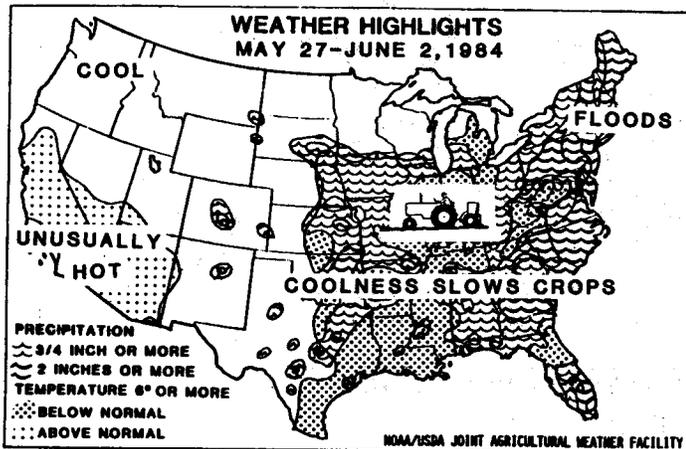
Volume 71, No. 22

WASHINGTON, D.C.

June 5, 1984

## National Weather Summary

May 26 to June 2



Nation, except for widely scattered showers in the West. Unusually warm weather continued from the Southwest through the Plateau and Rockies.

WEDNESDAY...Moderate to heavy rain continued in New England and along the east coast to North Carolina. Flooding was severe in parts of New England. Light showers became more widespread from the Southwest to the northern Rockies. The unusually warm temperatures spread from the Southwest and Rockies into the Plains but cooler weather pushed into the Northwest.

THURSDAY...Cool weather spread over the South and East. Record cool readings were seen in much of the Southeast. Heavy showers continued along the coast of New England and flooding persisted. Showers and thunderstorms covered the central Rockies and pushed into the northern Plains.

FRIDAY...Showers tapered off in New England and swollen rivers began to recede. A new storm triggered showers over the southern and central Rockies and from the central Rockies to the western Great Lakes. An occasional light shower fell in the High Plains of Texas.

SATURDAY...Temperatures were unseasonably cool in much of the East, Southeast, and through the Rockies and Plains. However, daytime temperatures rose to near 90 degrees in the Southeast and into the eighties as far north as Michigan. Rain persisted along the New England coast. The storm in the West triggered showers from the southern Rockies to the Great Lakes and into Pennsylvania. Very light showers fell in western Texas.

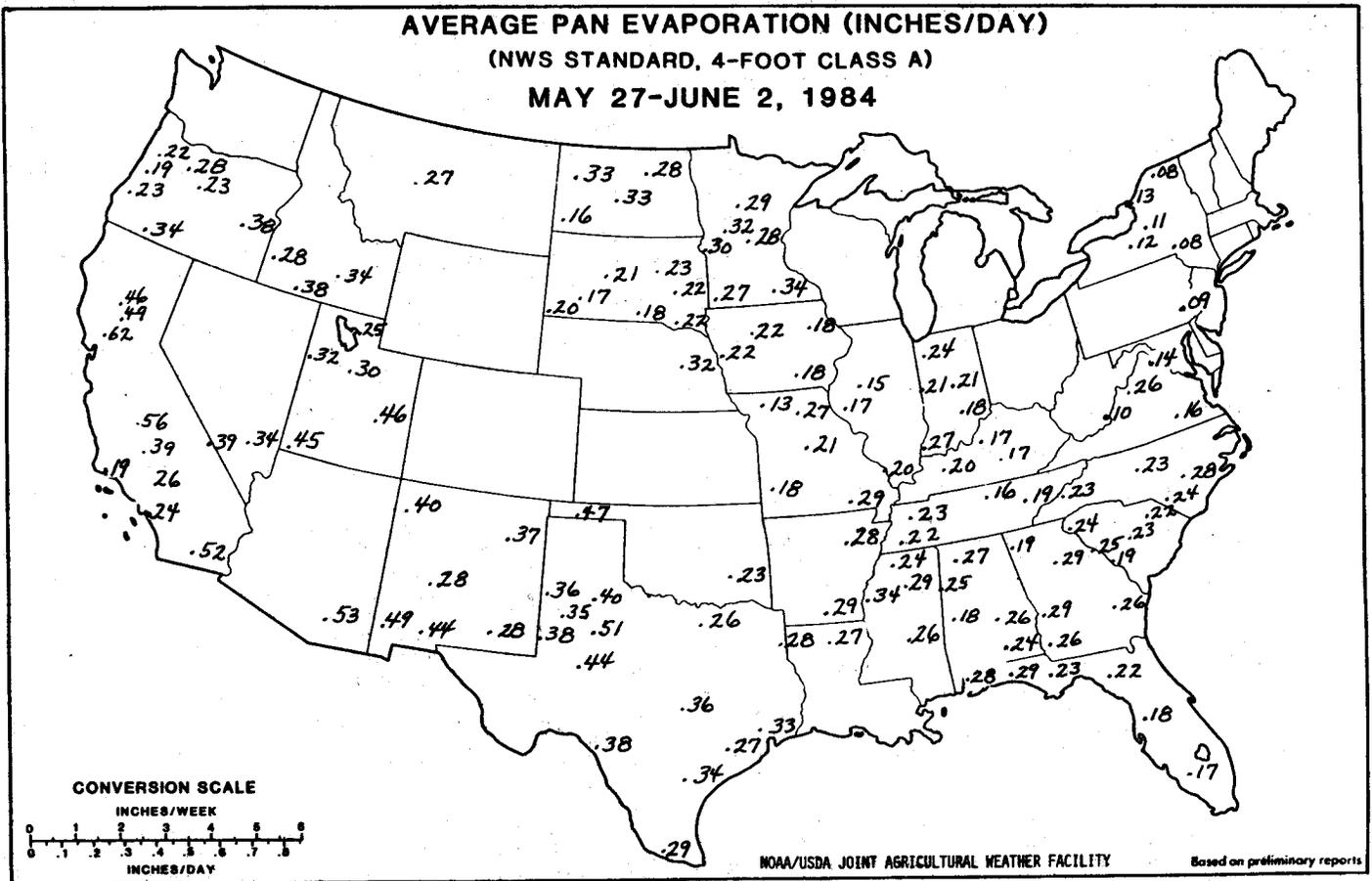
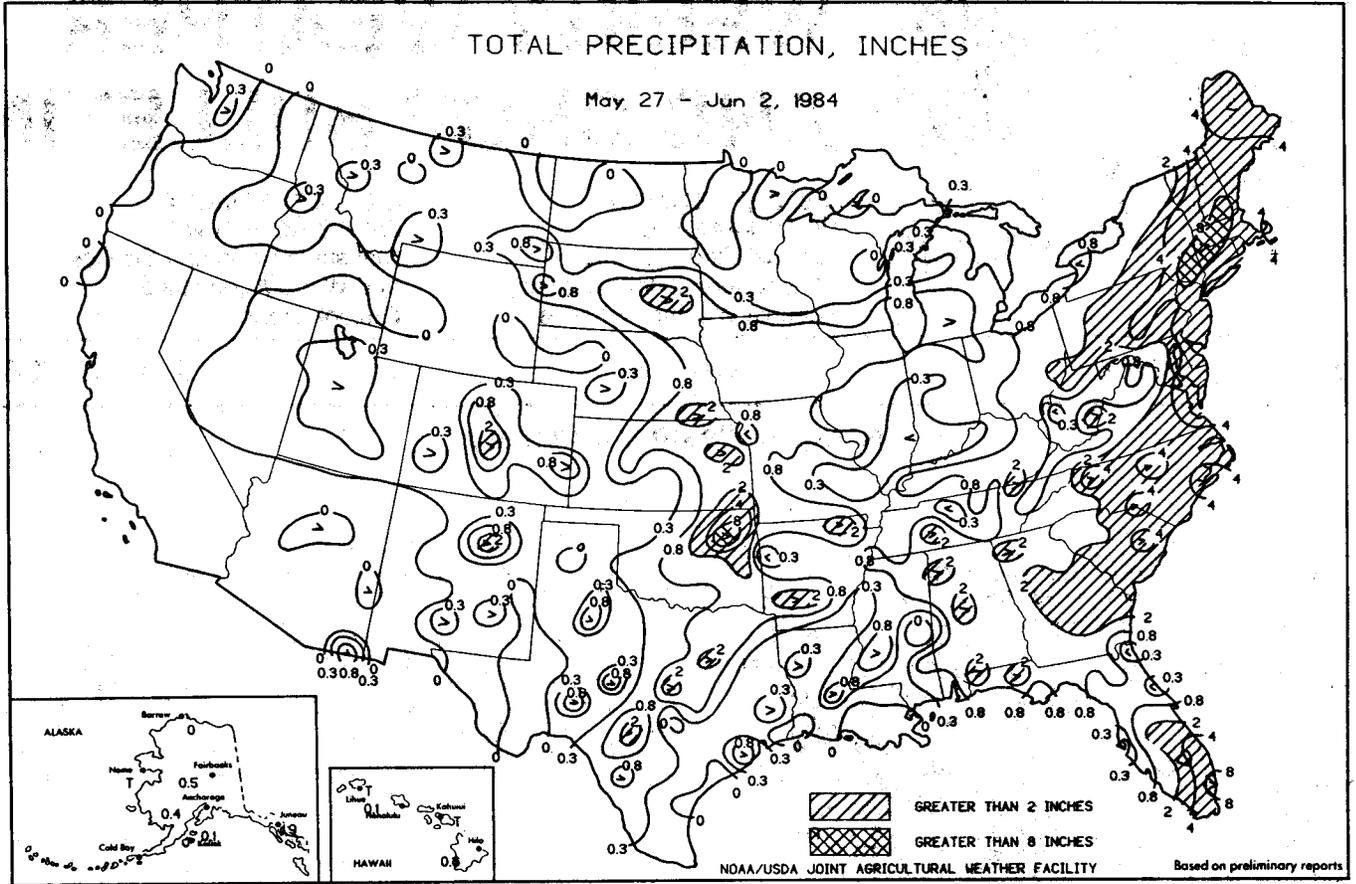
HIGHLIGHTS: Heavy showers fell from central Texas to the western Corn Belt as the week began and then moved eastward. The showers moved through the Southeast early in the week but persisted all week in New England. Late in the week showers developed throughout the Rockies and began to move into the northern Plains and western Corn Belt. Isolated showers fell in western Texas at week's end. Average temperatures were cooler than normal in most areas east of the Rockies--as much as 9-10 degrees cooler in most of the corn, soybean, and cotton areas. Parts of the Southwest were 9-12 degrees warmer than normal.

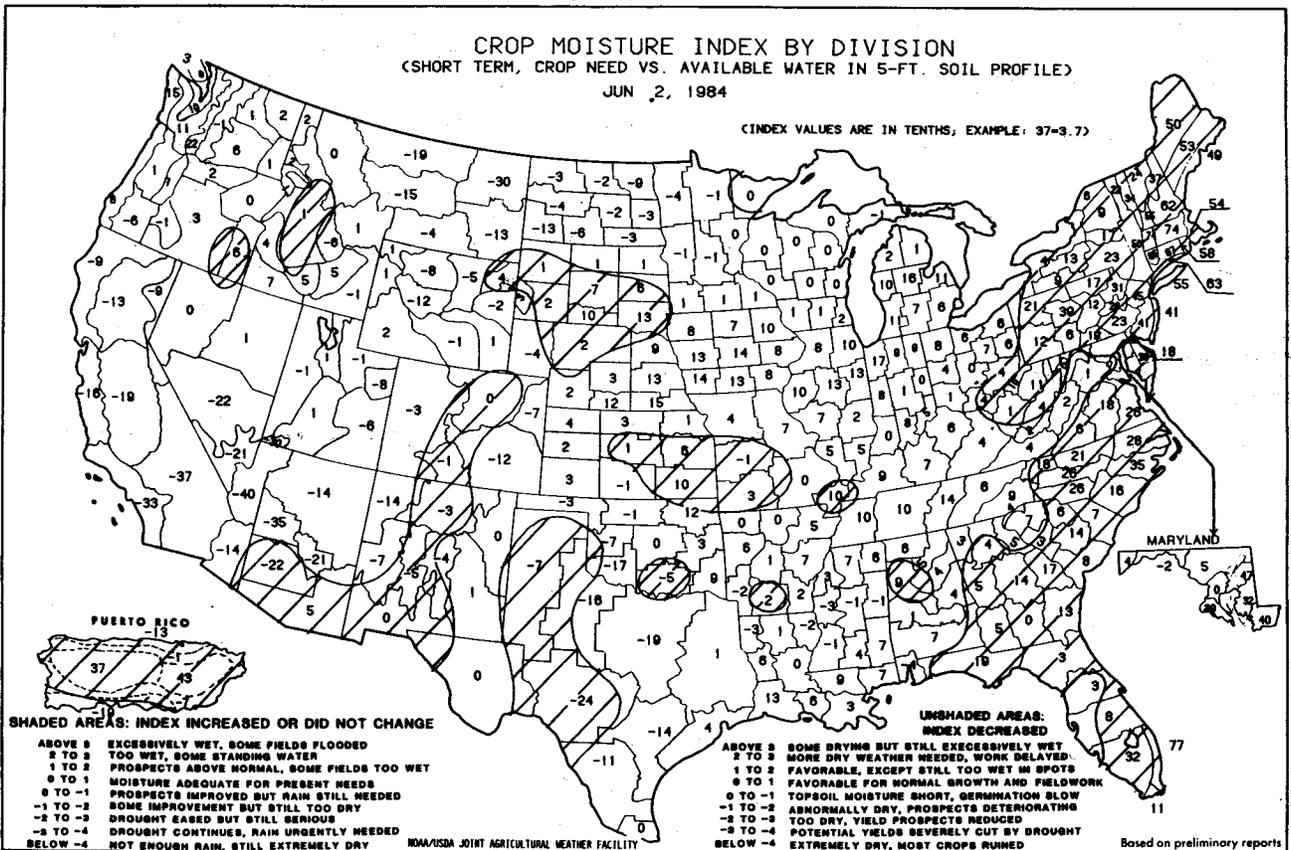
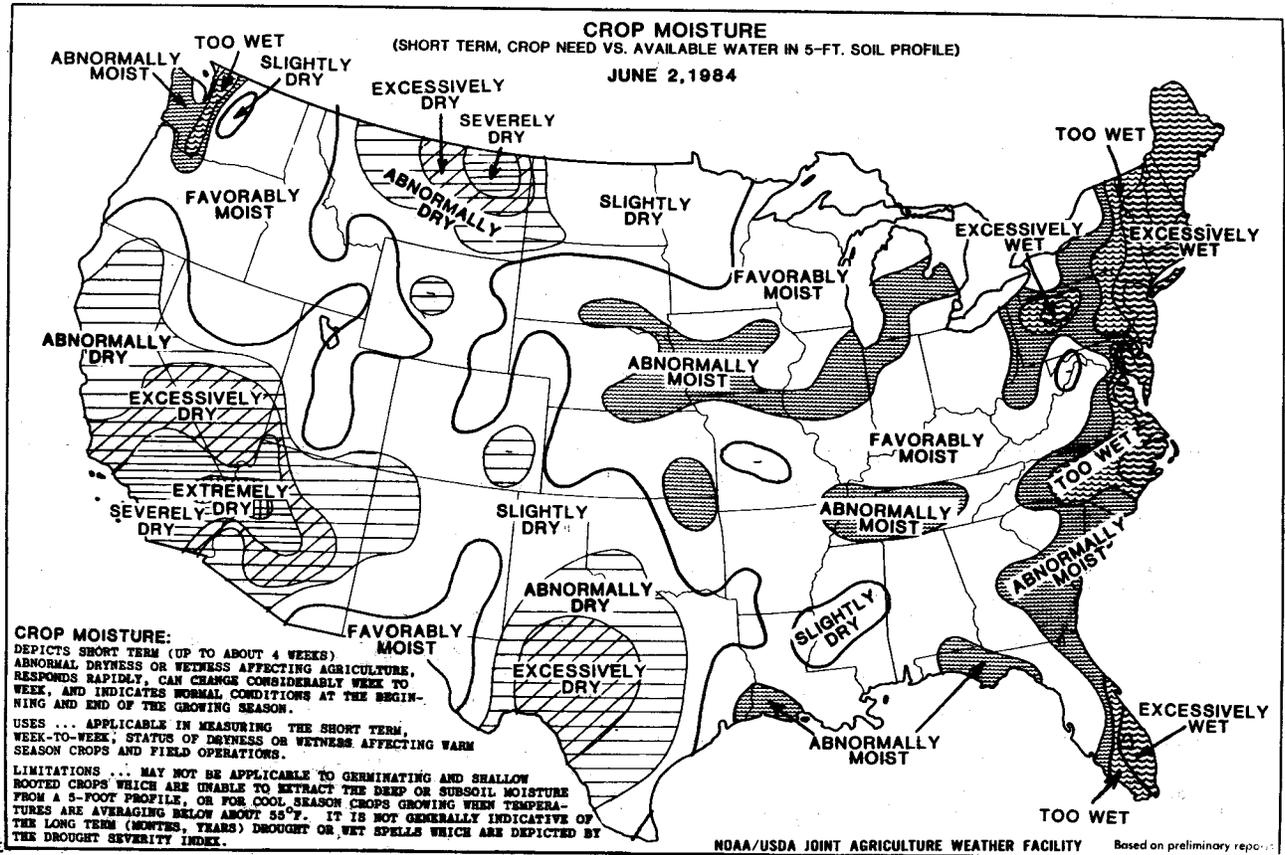
SUNDAY...Showers and thunderstorms covered the eastern portion of the Plains from central Texas to Iowa and Illinois and through South Dakota to the northern High Plains. Showers covered nearly all of the eastern States with heavy rain falling from northern Mississippi to western North Carolina and Virginia. Cooler air pushed eastward through the Great Lakes.

MONDAY...Showers and steady rain continued over the East Coast States and the lower Great Lakes States, but clearing began in the western Corn Belt. A few showers fell in central Texas. Hot weather prevailed in the West. Temperatures rose to over 100 degrees from western Arizona to northern California.

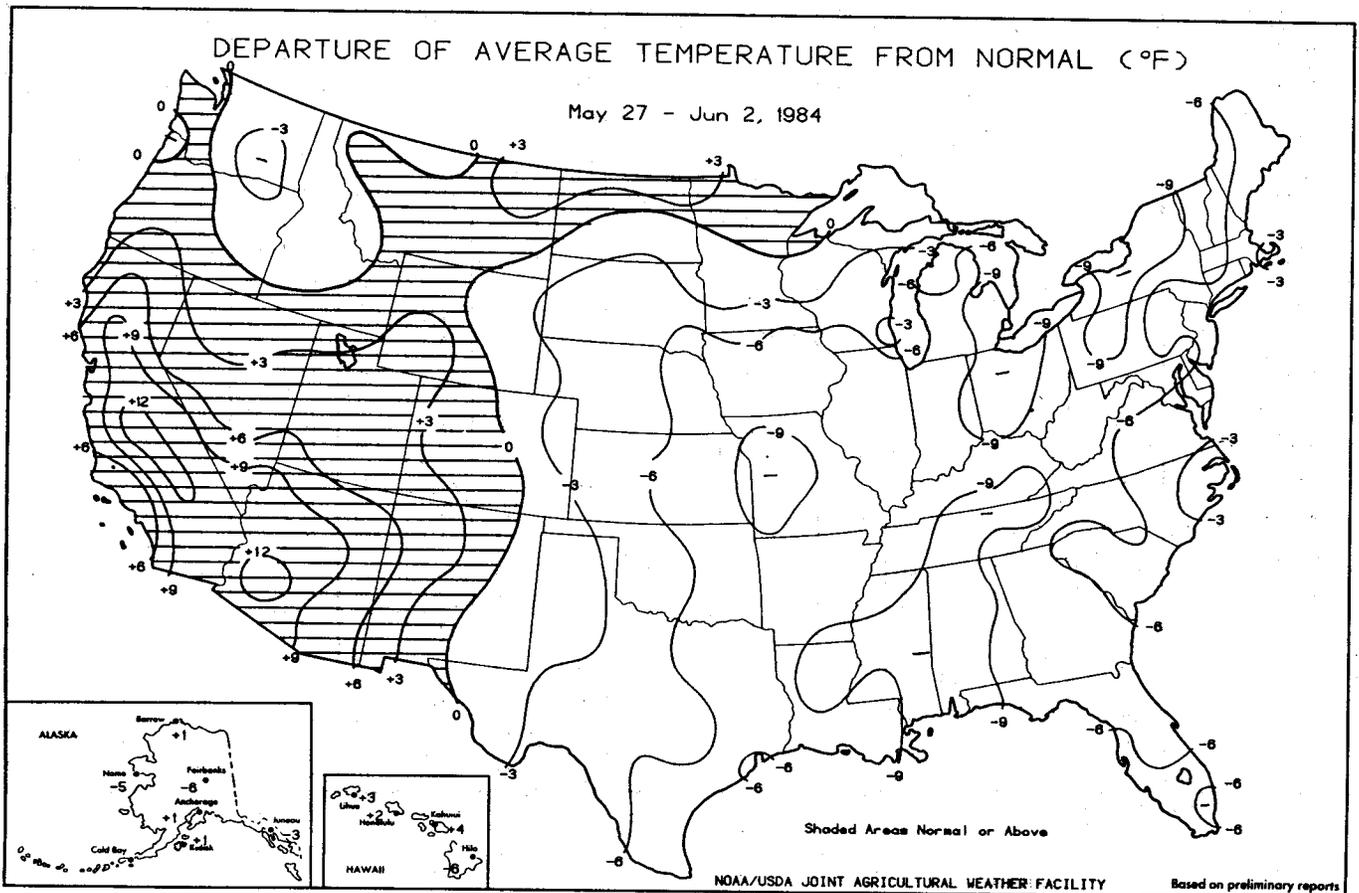
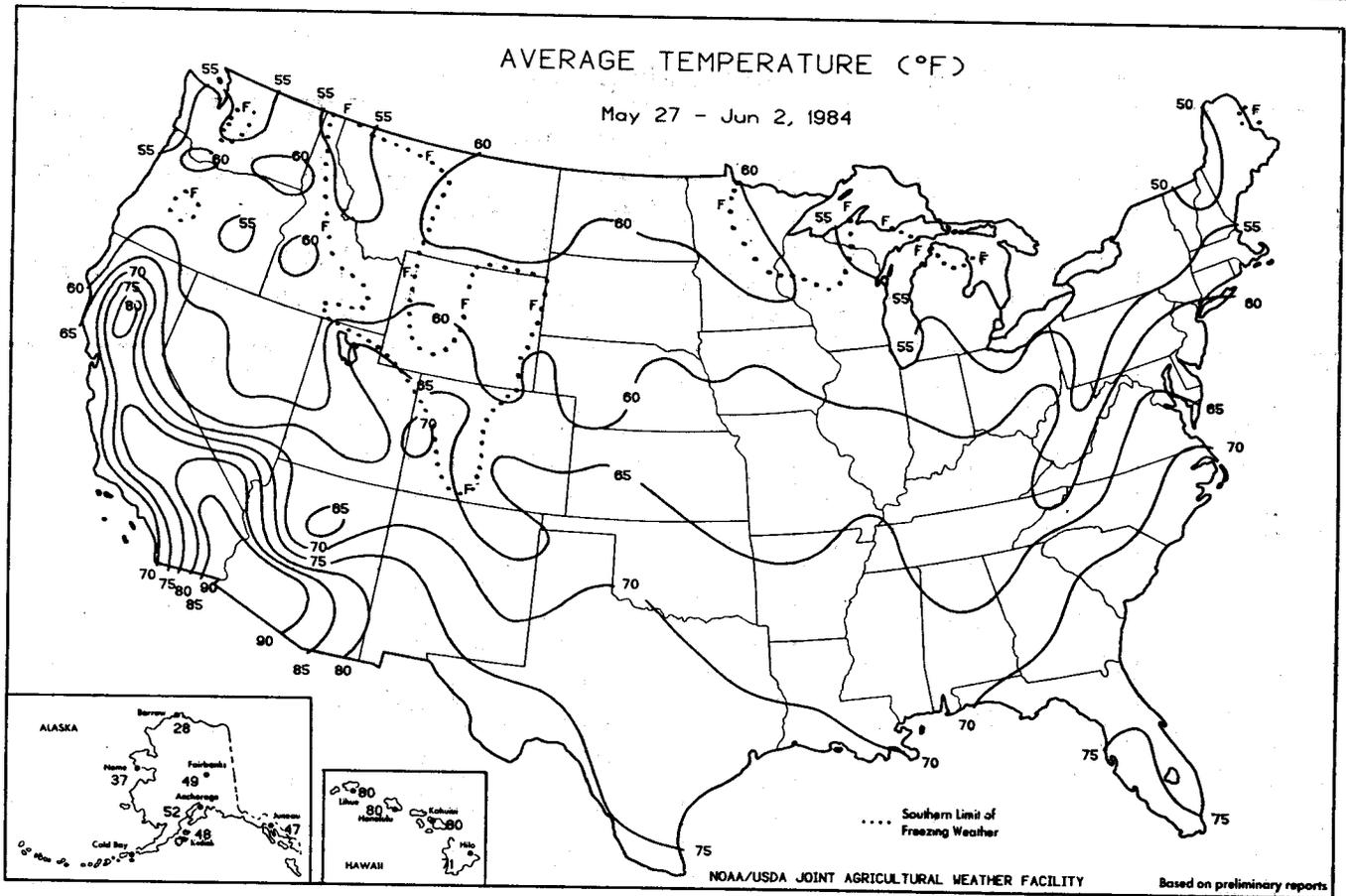
TUESDAY...Showers and thunderstorms lingered over the eastern seaboard and the persistent rain caused local flooding in parts of the Northeast. Clear weather prevailed over most of the rest of the

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Weather Data for the Week Ending JUNE 2, 1984

| STATES<br>AND<br>STATIONS | TEMPERATURE °F     |                    |                 |                |         |                             | PRECIPITATION        |                             |                             |                             |                             |                            | RELATIVE HUMIDITY, PERCENT |                    | NUMBER OF DAYS     |                    |                 |                     |                     |
|---------------------------|--------------------|--------------------|-----------------|----------------|---------|-----------------------------|----------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|----------------------------|----------------------------|--------------------|--------------------|--------------------|-----------------|---------------------|---------------------|
|                           | AVERAGE<br>MAXIMUM | AVERAGE<br>MINIMUM | EXTREME<br>HIGH | EXTREME<br>LOW | AVERAGE | DEPARTURE<br>FROM<br>NORMAL | WEEKLY<br>TOTAL, IN. | DEPARTURE<br>FROM<br>NORMAL | GREATEST IN<br>24-HOUR, IN. | TOTAL, IN.,<br>SINCE MAR. 4 | PCT. NORMAL<br>SINCE MAR. 4 | TOTAL, IN.,<br>SINCE JAN 1 | PCT. NORMAL<br>SINCE JAN 1 | TEMPERA-<br>TURE   |                    | PRECIPI-<br>TATION |                 |                     |                     |
|                           |                    |                    |                 |                |         |                             |                      |                             |                             |                             |                             |                            |                            | AVERAGE<br>MAXIMUM | AVERAGE<br>MINIMUM | 90 AND<br>ABOVE    | 32 AND<br>BELOW | .01 INCH<br>OR MORE | .50 INCH<br>OR MORE |
| AL BIRMINGHAM             | 78                 | 50                 | 86              | 40             | 64      | -10                         | .8                   | -.1                         | .6                          | 17.0                        | 107                         | 24.2                       | 91                         | 91                 | 41                 | 0                  | 0               | 0                   | 1                   |
| AL MOBILE                 | 81                 | 56                 | 87              | 48             | 68      | -10                         | .3                   | -.8                         | .2                          | 12.5                        | 74                          | 23.5                       | 86                         | 84                 | 39                 | 0                  | 0               | 3                   | 0                   |
| AL MONTGOMERY             | 80                 | 55                 | 88              | 46             | 67      | -9                          | .9                   | -.1                         | .7                          | 13.1                        | 94                          | 22.4                       | 96                         | 92                 | 44                 | 0                  | 0               | 4                   | 1                   |
| AK ANCHORAGE              | 62                 | 42                 | 71              | 36             | 52      | 1                           | .4                   | -.3                         | .4                          | 1.8                         | 113                         | 4.1                        | 128                        | 73                 | 38                 | 0                  | 0               | 3                   | 0                   |
| AK BARROW                 | 33                 | 24                 | 41              | 19             | 28      | 1                           | .4                   | -.1                         | .4                          | .5                          | 56                          | .8                         | 73                         | 93                 | 73                 | 0                  | 0               | 0                   | 0                   |
| AK FAIRBANKS              | 59                 | 39                 | 67              | 36             | 49      | -6                          | .5                   | -.3                         | .4                          | 1.8                         | 120                         | 3.4                        | 136                        | 93                 | 42                 | 0                  | 0               | 0                   | 0                   |
| AK JUNEAU                 | 51                 | 43                 | 54              | 37             | 47      | -2                          | 1.9                  | 1.2                         | .7                          | 8.1                         | 85                          | 20.5                       | 117                        | 98                 | 67                 | 0                  | 0               | 5                   | 0                   |
| AK KODIAK                 | 55                 | 40                 | 67              | 34             | 48      | 1                           | -.1                  | -1.2                        | .1                          | 19.6                        | 118                         | 36.8                       | 115                        | 94                 | 60                 | 0                  | 0               | 2                   | 0                   |
| AK NOME                   | 45                 | 29                 | 58              | 25             | 37      | -5                          | .2                   | -.2                         | .1                          | 1.6                         | 84                          | 2.4                        | 73                         | 76                 | 48                 | 0                  | 0               | 1                   | 0                   |
| AZ PHOENIX                | 108                | 79                 | 113             | 76             | 94      | 12                          | T                    | T                           | T                           | T                           | T                           | T                          | T                          | T                  | T                  | T                  | T               | T                   | T                   |
| AZ PRESCOTT               | 89                 | 58                 | 95              | 54             | 73      | 11                          | T                    | T                           | T                           | T                           | T                           | T                          | T                          | T                  | T                  | T                  | T               | T                   | T                   |
| AZ TUCSON                 | 101                | 71                 | 106             | 65             | 86      | 8                           | T                    | T                           | T                           | T                           | T                           | T                          | T                          | T                  | T                  | T                  | T               | T                   | T                   |
| AZ YUMA                   | 107                | 79                 | 114             | 74             | 93      | 10                          | T                    | T                           | T                           | T                           | T                           | T                          | T                          | T                  | T                  | T                  | T               | T                   | T                   |
| AR FORT SMITH             | 78                 | 52                 | 85              | 46             | 65      | -8                          | .2                   | -.8                         | .2                          | 10.9                        | 85                          | 14.3                       | 81                         | 94                 | 44                 | 0                  | 0               | 2                   | 0                   |
| AR LITTLE ROCK            | 79                 | 55                 | 87              | 49             | 67      | -7                          | .7                   | -.7                         | .2                          | 16.8                        | 111                         | 22.1                       | 96                         | 70                 | 47                 | 0                  | 0               | 2                   | 1                   |
| CA BAKERSFIELD            | 99                 | 63                 | 105             | 55             | 81      | 6                           | 0                    | 0                           | 0                           | 1.1                         | 61                          | 1.2                        | 29                         | 53                 | 16                 | 7                  | 0               | 0                   | 0                   |
| CA EUREKA                 | 62                 | 49                 | 69              | 43             | 55      | 2                           | 0                    | 0                           | 0                           | 9.9                         | 110                         | 16.0                       | 73                         | 92                 | 63                 | 0                  | 0               | 1                   | 0                   |
| CA FRESNO                 | 101                | 67                 | 107             | 58             | 84      | 13                          | 0                    | 0                           | 0                           | .6                          | 21                          | 1.8                        | 26                         | 54                 | 13                 | 7                  | 0               | 0                   | 0                   |
| CA LOS ANGELES            | 74                 | 63                 | 77              | 62             | 68      | 4                           | T                    | T                           | T                           | 1.3                         | 48                          | 1.7                        | 20                         | 87                 | 67                 | 0                  | 0               | 0                   | 0                   |
| CA RED BLUFF              | 96                 | 65                 | 108             | 57             | 81      | 9                           | 0                    | -.1                         | 0                           | 1.8                         | 42                          | 4.1                        | 33                         | 48                 | 15                 | 6                  | 0               | 0                   | 0                   |
| CA SACRAMENTO             | 95                 | 60                 | 105             | 55             | 78      | 9                           | 0                    | 0                           | 0                           | 1.4                         | 41                          | 2.9                        | 27                         | 63                 | 18                 | 5                  | 0               | 0                   | 0                   |
| CA SAN DIEGO              | 75                 | 65                 | 80              | 62             | 70      | 6                           | 0                    | 0                           | 0                           | .6                          | 24                          | 1.2                        | 19                         | 89                 | 65                 | 0                  | 0               | 0                   | 0                   |
| CA SAN FRANCISCO          | 82                 | 52                 | 97              | 50             | 67      | 8                           | 0                    | 0                           | 0                           | 2.1                         | 50                          | 4.0                        | 37                         | 84                 | 35                 | 2                  | 0               | 0                   | 0                   |
| CO DENVER                 | 76                 | 49                 | 89              | 41             | 62      | 0                           | .4                   | -.1                         | .3                          | 4.5                         | 78                          | 5.5                        | 80                         | 76                 | 26                 | 0                  | 0               | 2                   | 0                   |
| CO GRAND JUNCTION         | 86                 | 55                 | 93              | 51             | 71      | 3                           | .1                   | 0                           | .1                          | 3.3                         | 150                         | 3.7                        | 116                        | 52                 | 17                 | 2                  | 0               | 2                   | 0                   |
| CO PUEBLO                 | 83                 | 52                 | 93              | 44             | 68      | 1                           | T                    | -.3                         | T                           | 3.4                         | 100                         | 3.7                        | 90                         | 65                 | 22                 | 2                  | 0               | 2                   | 0                   |
| CT BRIDGEPORT             | 65                 | 53                 | 72              | 48             | 59      | -4                          | 5.8                  | 5.1                         | 2.1                         | 16.2                        | 147                         | 22.7                       | 129                        | 93                 | 69                 | 0                  | 0               | 6                   | 0                   |
| CT HARTFORD               | 63                 | 49                 | 74              | 45             | 56      | -8                          | 8.2                  | 7.4                         | 2.2                         | 20.5                        | 177                         | 27.2                       | 143                        | 97                 | 68                 | 0                  | 0               | 6                   | 5                   |
| DC WASHINGTON             | 74                 | 55                 | 82              | 48             | 65      | -6                          | .7                   | -.1                         | .4                          | 13.6                        | 140                         | 18.7                       | 122                        | 85                 | 53                 | 0                  | 0               | 4                   | 0                   |
| FL APALACHICOLA           | 82                 | 58                 | 86              | 48             | 70      | -8                          | .3                   | -.5                         | .3                          | 15.6                        | 158                         | 24.3                       | 139                        | 82                 | 45                 | 0                  | 0               | 1                   | 0                   |
| FL DAYTONA BEACH          | 80                 | 63                 | 85              | 52             | 72      | -6                          | .2                   | -.1                         | .1                          | 10.9                        | 124                         | 15.9                       | 107                        | 84                 | 50                 | 0                  | 0               | 2                   | 0                   |
| FL JACKSONVILLE           | 81                 | 60                 | 87              | 47             | 71      | -6                          | .2                   | -1.0                        | .1                          | 10.3                        | 87                          | 17.1                       | 90                         | 94                 | 50                 | 0                  | 0               | 3                   | 0                   |
| FL KEY WEST               | 83                 | 75                 | 86              | 72             | 79      | -3                          | 4.1                  | 3.0                         | 3.0                         | 12.2                        | 188                         | 16.5                       | 156                        | 81                 | 64                 | 0                  | 0               | 5                   | 3                   |
| FL MIAMI                  | 79                 | 67                 | 83              | 62             | 73      | -7                          | 8.2                  | 6.2                         | 4.0                         | 21.8                        | 182                         | 22.7                       | 138                        | 95                 | 67                 | 0                  | 0               | 5                   | 3                   |
| FL ORLANDO                | 82                 | 63                 | 85              | 53             | 73      | -7                          | 1.2                  | -.1                         | .6                          | 11.3                        | 119                         | 16.1                       | 108                        | 96                 | 58                 | 0                  | 0               | 3                   | 2                   |
| FL TALLAHASSEE            | 83                 | 58                 | 88              | 46             | 71      | -7                          | 1.6                  | -.2                         | 1.6                         | 20.5                        | 138                         | 30.6                       | 121                        | 95                 | 43                 | 0                  | 0               | 1                   | 1                   |
| FL TAMPA                  | 84                 | 65                 | 89              | 53             | 75      | -5                          | T                    | -1.0                        | T                           | 5.4                         | 64                          | 10.3                       | 73                         | 94                 | 52                 | 0                  | 0               | 1                   | 0                   |
| FL WEST PALM BEACH        | 80                 | 67                 | 83              | 61             | 74      | -5                          | 5.4                  | 3.7                         | 2.6                         | 19.0                        | 151                         | 24.9                       | 135                        | 95                 | 67                 | 0                  | 0               | 4                   | 2                   |
| GA ATLANTA                | 76                 | 53                 | 85              | 43             | 65      | -8                          | 1.2                  | .4                          | .7                          | 18.9                        | 137                         | 29.7                       | 125                        | 91                 | 47                 | 0                  | 0               | 2                   | 2                   |
| GA AUGUSTA                | 80                 | 57                 | 89              | 45             | 69      | -6                          | 2.1                  | 1.2                         | 1.0                         | 20.1                        | 173                         | 28.4                       | 140                        | 88                 | 46                 | 0                  | 0               | 3                   | 2                   |
| GA MACON                  | 82                 | 57                 | 90              | 48             | 69      | -7                          | 3.7                  | 2.8                         | 3.4                         | 13.7                        | 112                         | 22.9                       | 105                        | 96                 | 48                 | 1                  | 0               | 3                   | 2                   |
| GA SAVANNAH               | 81                 | 61                 | 90              | 49             | 71      | -6                          | 3.7                  | 2.5                         | 2.3                         | 14.3                        | 122                         | 26.4                       | 143                        | 85                 | 49                 | 1                  | 0               | 3                   | 3                   |
| HI HILO                   | 82                 | 67                 | 83              | 65             | 74      | 0                           | .6                   | -1.0                        | .3                          | 20.8                        | 59                          | 42.0                       | 70                         | 86                 | 59                 | 0                  | 0               | 3                   | 0                   |
| HI HONOLULU               | 87                 | 73                 | 88              | 72             | 80      | 2                           | .1                   | -.2                         | .1                          | 3.3                         | 55                          | 4.8                        | 38                         | 78                 | 45                 | 0                  | 0               | 2                   | 0                   |
| HI KAHULUI                | 87                 | 73                 | 89              | 70             | 80      | 4                           | T                    | -.1                         | T                           | 1.3                         | 30                          | 5.4                        | 44                         | 70                 | 47                 | 0                  | 0               | 1                   | 0                   |
| HI LIHUE                  | 84                 | 75                 | 85              | 70             | 80      | 3                           | T                    | -.5                         | T                           | 3.1                         | 30                          | 6.9                        | 33                         | 77                 | 58                 | 0                  | 0               | 1                   | 0                   |
| ID BOISE                  | 76                 | 44                 | 94              | 31             | 60      | -1                          | T                    | -.3                         | T                           | 4.2                         | 114                         | 5.0                        | 91                         | 61                 | 18                 | 1                  | 1               | 0                   | 0                   |
| ID LEWISTON               | 76                 | 46                 | 92              | 38             | 61      | -1                          | T                    | -.3                         | T                           | 4.0                         | 108                         | 5.3                        | 90                         | 70                 | 27                 | 1                  | 0               | 1                   | 0                   |
| ID FOCATELLO              | 75                 | 40                 | 89              | 32             | 58      | 0                           | .1                   | -.2                         | .1                          | 3.5                         | 106                         | 6.1                        | 115                        | 71                 | 20                 | 0                  | 1               | 1                   | 0                   |
| IL CHICAGO                | 68                 | 45                 | 83              | 37             | 57      | -8                          | 1.0                  | -.2                         | 1.0                         | 11.2                        | 115                         | 14.1                       | 109                        | 90                 | 48                 | 0                  | 0               | 2                   | 1                   |
| IL MOLINE                 | 70                 | 46                 | 86              | 35             | 58      | -8                          | 1.2                  | -.2                         | .9                          | 12.8                        | 114                         | 14.5                       | 101                        | 87                 | 43                 | 0                  | 0               | 2                   | 1                   |
| IL PEORIA                 | 70                 | 47                 | 84              | 35             | 59      | -8                          | .6                   | -.3                         | .4                          | 14.0                        | 130                         | 16.9                       | 120                        | 87                 | 51                 | 0                  | 0               | 2                   | 0                   |
| IL QUINCY                 | 72                 | 51                 | 86              | 43             | 61      | -7                          | .5                   | -.5                         | .4                          | 13.9                        | 121                         | 16.1                       | 110                        | 86                 | 46                 | 0                  | 0               | 2                   | 0                   |
| IL ROCKFORD               | 68                 | 43                 | 83              | 34             | 55      | -9                          | 1.2                  | -.2                         | 1.1                         | 9.0                         | 83                          | 11.0                       | 80                         | 91                 | 44                 | 0                  | 0               | 2                   | 0                   |
| IL SPRINGFIELD            | 71                 | 50                 | 85              | 40             | 61      | -8                          | .5                   | -.2                         | .4                          | 15.8                        | 149                         | 18.4                       | 130                        | 89                 | 54                 | 0                  | 0               | 2                   | 1                   |
| IN EVANSVILLE             | 76                 | 50                 | 89              | 41             | 63      | -7                          | .1                   | -.8                         | .1                          | 16.0                        | 123                         | 19.4                       | 100                        | 85                 | 38                 | 0                  | 0               | 2                   | 0                   |
| IN FORT WAYNE             | 68                 | 47                 | 86              | 41             | 58      | -7                          | .5                   | -.4                         | .4                          | 11.5                        | 114                         | 14.7                       | 99                         | 89                 | 51                 | 0                  | 0               | 2                   | 0                   |
| IN INDIANAPOLIS           | 71                 | 47                 | 84              | 42             | 59      | -8                          | .5                   | -.4                         | .5                          | 11.4                        | 104                         | 15.6                       | 95                         | 86                 | 51                 | 0                  | 0               | 2                   | 0                   |
| IN SOUTH BEND             | 69                 | 48                 | 87              | 43             | 59      | -6                          | .6                   | -.1                         | .4                          | 10.3                        | 102                         | 17.7                       | 85                         | 74                 | 42                 | 0                  | 0               | 3                   | 0                   |
| IA DES MOINES             | 72                 | 49                 | 82              | 41             | 60      | -7                          | 1.3                  | -.3                         | .9                          | 13.6                        | 140                         | 15.5                       | 128                        | 84                 | 44                 | 0                  | 0               | 3                   | 1                   |
| IA WATERLOO               | 71                 | 48                 | 82              | 41             | 59      | -7                          | 1.2                  | -.3                         | 1.0                         | 14.0                        | 184                         | 15.5                       | 168                        | 89                 | 48                 | 0                  | 0               | 3                   | 1                   |
| KS CONCORDIA              | 70                 | 47                 | 84              | 37             | 59      | -6                          | 1.5                  | -.5                         | .8                          | 11.1                        | 108                         | 12.5                       | 101                        | 88                 | 43                 | 0                  | 0               | 3                   | 2                   |
| KS DODGE CITY             | 74                 | 51                 | 92              | 43             | 62      | -6                          | 1.0                  | 0                           | .7                          | 12.7                        | 155                         | 14.1                       | 144                        | 93                 | 50                 | 1                  | 0               | 3                   | 1                   |
| KS GOODLAND               | 74                 | 46                 | 89              | 41             | 60      | -5                          | .1                   | -.6                         | .1                          | 6.8                         | 124                         | 9.6                        | 116                        | 79                 | 37                 | 2                  | 0               | 2                   | 0                   |
| KS TOPEKA                 | 72                 | 52                 | 87              | 42             | 62      | -8                          | 2.4                  | -.6                         | .1                          | 6.8                         | 124                         | 9.1                        | 142                        | 85                 | 39                 | 0                  | 0               | 2                   | 0                   |
| KS WICHITA                | 76                 | 52                 | 90              | 41             | 64      | -7                          | .2                   | -.8                         | .2                          | 12.0                        | 130                         | 13.7                       | 121                        | 92                 | 50                 | 0                  | 0               | 1                   | 1                   |
| KY BOWLING GREEN          | 73                 | 50                 | 85              | 41             | 61      | -9                          | .4                   | -.6                         | .4                          | 23.2                        | 168                         | 29.2                       | 128                        | 93                 | 45                 | 0                  | 0               | 1                   | 0                   |
| KY LEXINGTON              | 72                 | 50                 | 83              | 39             | 61      | -8                          | .3                   | -.7                         | .3                          | 14.6                        | 111                         | 19.6                       | 95                         | 91                 | 50                 | 0                  | 0               | 1                   | 0                   |
| KY LOUISVILLE             | 74                 | 51                 | 86              | 41             | 62      | -7                          | .1                   | -.8                         | .1                          | 16.4                        | 127                         | 18.9                       | 95                         | 80                 | 42                 | 0                  | 0               | 2                   | 0                   |
| LA ALEXANDRIA             | 80                 | 57                 | 88              | 50             | 69      | -10                         | .2                   | -1.0                        | .2                          | 12.8                        | 77                          | 27.4                       | 100                        | 83                 | 43                 | 0                  | 0               | 1                   | 0                   |
| LA BATON ROUGE            | 81                 | 57                 | 89              | 49             | 69      | -8                          | 0                    | -.8                         | 0                           | 6.9                         | 47                          | 16.1                       | 65                         | 82                 | 37                 | 0                  | 0               | 0                   | 0                   |
| LA LAF CHARLES            | 81                 | 60                 | 89              | 52             | 71      | -7                          | 0                    | -1.0                        | T                           | 11.9                        | 97                          | 21.0                       | 105                        | 91                 | 45                 | 0                  | 0               | 0                   | 0                   |
| LA NEW ORLEANS            | 80                 | 59                 | 88              | 50             | 69      | -9                          | T                    | -1.1                        | 0                           | 10.2                        | 72                          | 19.6                       | 78                         | 85                 | 40                 | 0                  | 0               | 0                   | 0                   |

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

+100 = NORMAL & ACTUAL NEAR THE SAME

Weather Data for the Week Ending JUNE 2, 1984

| STATES<br>AND<br>STATIONS | TEMPERATURE °F     |                    |                 |                |         |                          | PRECIPITATION        |                          |                             |                             |                             |                            |                            |                    | RELATIVE HUMIDITY PERCENT |              | NUMBER OF DAYS |                     |                     |  |
|---------------------------|--------------------|--------------------|-----------------|----------------|---------|--------------------------|----------------------|--------------------------|-----------------------------|-----------------------------|-----------------------------|----------------------------|----------------------------|--------------------|---------------------------|--------------|----------------|---------------------|---------------------|--|
|                           | AVERAGE<br>MAXIMUM | AVERAGE<br>MINIMUM | EXTREME<br>HIGH | EXTREME<br>LOW | AVERAGE | DEPARTURE<br>FROM NORMAL | WEEKLY<br>TOTAL, IN. | DEPARTURE<br>FROM NORMAL | GREATEST IN<br>24-HOUR, IN. | TOTAL, IN.,<br>SINCE MAR. 4 | PCT. NORMAL<br>SINCE MAR. 4 | TOTAL, IN.,<br>SINCE JAN 1 | PCT. NORMAL<br>SINCE JAN 1 | AVERAGE<br>MAXIMUM | AVERAGE<br>MINIMUM        | TEMPERATURE  |                | PRECIPITATION       |                     |  |
|                           |                    |                    |                 |                |         |                          |                      |                          |                             |                             |                             |                            |                            |                    |                           | 90 AND ABOVE | 52 AND BELOW   | .01 INCH<br>OR MORE | .50 INCH<br>OR MORE |  |
| ME SHREVEPORT             | 82                 | 56                 | 90              | 47             | 69      | -8                       | .1                   | -.8                      | .1                          | 11.8                        | 89                          | 19.5                       | 92                         | 91                 | 43                        | 1            | 0              | 1                   | 0                   |  |
| ME CARIBOU                | 58                 | 44                 | 63              | 37             | 51      | -5                       | 3.0                  | 2.3                      | 1.3                         | 10.1                        | 128                         | 15.5                       | 121                        | 87                 | 57                        | 0            | 0              | 5                   | 3                   |  |
| MD PORTLAND               | 58                 | 48                 | 71              | 44             | 53      | -5                       | 7.6                  | 6.9                      | 3.2                         | 21.0                        | 193                         | 28.7                       | 153                        | 91                 | 74                        | 0            | 0              | 6                   | 3                   |  |
| MD BALTIMORE              | 72                 | 53                 | 81              | 42             | 62      | -6                       | 1.3                  | .5                       | .9                          | 13.0                        | 126                         | 18.8                       | 111                        | 88                 | 49                        | 0            | 0              | 3                   | 1                   |  |
| MD SALISBURY              | 72                 | 55                 | 82              | 49             | 64      | -4                       | 4.2                  | 3.4                      | 2.2                         | 18.1                        | 169                         | 24.6                       | 137                        | 99                 | 71                        | 0            | 0              | 4                   | 2                   |  |
| MA BOSTON                 | 65                 | 53                 | 77              | 51             | 59      | -4                       | 7.2                  | 6.4                      | 4.2                         | 20.7                        | 185                         | 31.8                       | 163                        | 98                 | 79                        | 0            | 0              | 6                   | 4                   |  |
| MA CHATHAM                | 61                 | 51                 | 73              | 50             | 56      | -1                       | 1.6                  | .9                       | .6                          | 16.9                        | 148                         | 24.7                       | 120                        | 98                 | 79                        | 0            | 0              | 6                   | 4                   |  |
| MI ALPENA                 | 61                 | 39                 | 73              | 29             | 50      | -7                       | .6                   | -.1                      | .3                          | 7.2                         | 95                          | 8.9                        | 81                         | 95                 | 44                        | 0            | 1              | 5                   | 2                   |  |
| MI DETROIT                | 65                 | 43                 | 77              | 35             | 54      | -9                       | .7                   | 0                        | .4                          | 9.8                         | 111                         | 12.0                       | 94                         | 85                 | 46                        | 0            | 1              | 5                   | 0                   |  |
| MI FLINT                  | 63                 | 40                 | 78              | 34             | 52      | -10                      | .8                   | -.1                      | .4                          | 9.5                         | 119                         | 10.6                       | 93                         | 98                 | 53                        | 0            | 0              | 4                   | 0                   |  |
| MI GRAND RAPIDS           | 68                 | 45                 | 83              | 37             | 56      | -7                       | 1.8                  | 1.0                      | 1.8                         | 9.7                         | 104                         | 11.7                       | 91                         | 96                 | 46                        | 0            | 0              | 2                   | 1                   |  |
| MI LAUGHTON LAKE          | 65                 | 42                 | 79              | 35             | 53      | -5                       | .2                   | -.5                      | .2                          | 5.6                         | 77                          | 8.1                        | 79                         | 84                 | 40                        | 0            | 0              | 1                   | 0                   |  |
| MI HONGING                | 66                 | 43                 | 81              | 36             | 54      | -8                       | 1.0                  | .3                       | .8                          | 9.3                         | 119                         | 10.6                       | 93                         | 92                 | 52                        | 0            | 0              | 3                   | 1                   |  |
| MI MARQUETTE              | 66                 | 41                 | 80              | 28             | 54      | -1                       | .1                   | -.8                      | .1                          | 7.3                         | 70                          | 12.3                       | 83                         | 84                 | 32                        | 0            | 1              | 2                   | 0                   |  |
| MI MUSKOGON               | 65                 | 44                 | 77              | 37             | 54      | -7                       | 1.1                  | .5                       | 1.0                         | 9.4                         | 111                         | 12.0                       | 93                         | 83                 | 46                        | 0            | 0              | 2                   | 1                   |  |
| MI SAULT STE. MARIE       | 66                 | 39                 | 76              | 29             | 52      | -2                       | .2                   | -.5                      | .2                          | 5.0                         | 69                          | 8.6                        | 75                         | 90                 | 38                        | 0            | 1              | 2                   | 0                   |  |
| MN ALFXANDRIA             | 73                 | 47                 | 88              | 41             | 60      | -1                       | T                    | -.9                      | T                           | 6.4                         | 93                          | 8.0                        | 94                         | 70                 | 27                        | 0            | 0              | 0                   | 0                   |  |
| MN DULUTH                 | 69                 | 43                 | 81              | 29             | 56      | 1                        | 1.0                  | -.7                      | T                           | 5.0                         | 67                          | 6.4                        | 65                         | 77                 | 31                        | 0            | 1              | 1                   | 0                   |  |
| MN INT'L FALLS            | 71                 | 42                 | 83              | 28             | 57      | 0                        | T                    | -.7                      | T                           | 2.8                         | 53                          | 3.8                        | 54                         | 83                 | 31                        | 0            | 2              | 0                   | 0                   |  |
| MN MINNEAPOLIS            | 73                 | 49                 | 87              | 38             | 61      | -2                       | .1                   | -.8                      | .1                          | 7.5                         | 104                         | 9.9                        | 111                        | 80                 | 36                        | 0            | 0              | 1                   | 0                   |  |
| MN ROCHESTER              | 68                 | 44                 | 82              | 34             | 56      | -6                       | .2                   | -.8                      | .1                          | 7.6                         | 96                          | 9.8                        | 102                        | 83                 | 40                        | 0            | 0              | 2                   | 0                   |  |
| MS GREENWOOD              | 81                 | 54                 | 90              | 44             | 68      | -9                       | .2                   | -.7                      | .2                          | 15.7                        | 96                          | 23.6                       | 88                         | 85                 | 37                        | 1            | 0              | 0                   | 0                   |  |
| MS JACKSON                | 81                 | 54                 | 90              | 43             | 67      | -9                       | .9                   | -.1                      | .9                          | 14.2                        | 87                          | 21.8                       | 82                         | 97                 | 39                        | 1            | 0              | 1                   | 0                   |  |
| MS MERIDIAN               | 80                 | 50                 | 88              | 40             | 65      | -10                      | 0                    | -.8                      | 0                           | 14.6                        | 92                          | 22.3                       | 85                         | 94                 | 36                        | 0            | 0              | 2                   | 1                   |  |
| MO CAPE GIRARDEAU         | 76                 | 51                 | 88              | 44             | 64      | -                        | .1                   | -.9                      | .1                          | 11.9                        | 85                          | 17.1                       | 84                         | 90                 | 45                        | 0            | 0              | 1                   | 0                   |  |
| MO COLUMBIA               | 71                 | 47                 | 85              | 39             | 59      | -10                      | .4                   | -.6                      | .4                          | 15.1                        | 129                         | 18.8                       | 119                        | 94                 | 54                        | 0            | 0              | 1                   | 0                   |  |
| MO KANSAS CITY            | 71                 | 50                 | 86              | 42             | 61      | -9                       | .6                   | -.4                      | .6                          | 13.5                        | 132                         | 15.6                       | 125                        | 83                 | 45                        | 0            | 0              | 2                   | 1                   |  |
| MO SAINT LOUIS            | 74                 | 51                 | 88              | 41             | 63      | -8                       | 1.0                  | -.2                      | 1.0                         | 16.9                        | 161                         | 21.0                       | 140                        | 92                 | 48                        | 0            | 0              | 2                   | 1                   |  |
| MO SPRINGFIELD            | 72                 | 48                 | 84              | 38             | 60      | -9                       | 1.0                  | -.1                      | .9                          | 12.0                        | 99                          | 16.9                       | 104                        | 87                 | 49                        | 0            | 0              | 2                   | 1                   |  |
| MT BILLINGS               | 75                 | 46                 | 95              | 38             | 61      | 1                        | .2                   | -.4                      | .2                          | 2.9                         | 52                          | 4.6                        | 64                         | 67                 | 22                        | 1            | 0              | 0                   | 0                   |  |
| MT GLASGOW                | 77                 | 48                 | 96              | 42             | 62      | 3                        | T                    | -.5                      | T                           | 1.6                         | 50                          | 2.2                        | 55                         | 61                 | 16                        | 2            | 0              | 2                   | 0                   |  |
| MT GREAT FALLS            | 73                 | 42                 | 89              | 32             | 58      | 0                        | T                    | -.7                      | T                           | 3.3                         | 65                          | 4.8                        | 68                         | 71                 | 21                        | 0            | 1              | 0                   | 0                   |  |
| MT HAVRE                  | 73                 | 43                 | 91              | 39             | 58      | -1                       | .5                   | -.1                      | .5                          | 1.2                         | 35                          | 2.7                        | 63                         | 79                 | 24                        | 1            | 0              | 2                   | 0                   |  |
| MT HELENA                 | 73                 | 42                 | 89              | 36             | 58      | 2                        | .1                   | -.4                      | .1                          | 2.9                         | 83                          | 3.3                        | 70                         | 64                 | 20                        | 0            | 0              | 1                   | 0                   |  |
| MT KALISPELL              | 69                 | 40                 | 85              | 31             | 55      | 0                        | T                    | -.5                      | T                           | 4.3                         | 110                         | 5.8                        | 85                         | 79                 | 27                        | 0            | 1              | 1                   | 0                   |  |
| MT MILES CITY             | 76                 | 49                 | 98              | 41             | 63      | 1                        | .2                   | -.4                      | .2                          | 2.1                         | 46                          | 2.2                        | 40                         | 69                 | 24                        | 1            | 0              | 1                   | 0                   |  |
| MT MISSOULA               | 68                 | 39                 | 86              | 31             | 54      | -2                       | .4                   | -.1                      | .3                          | 5.6                         | 144                         | 6.8                        | 110                        | 88                 | 32                        | 0            | 2              | 2                   | 0                   |  |
| NE GRAND ISLAND           | 76                 | 50                 | 90              | 42             | 63      | -4                       | .4                   | -.5                      | .2                          | 16.2                        | 193                         | 18.6                       | 190                        | 79                 | 37                        | 1            | 0              | 4                   | 0                   |  |
| NE LINCOLN                | 73                 | 50                 | 84              | 41             | 61      | -6                       | .9                   | -.1                      | .6                          | 18.5                        | 203                         | 20.3                       | 184                        | 96                 | 52                        | 0            | 0              | 3                   | 1                   |  |
| NE NORFOLK                | 72                 | 49                 | 86              | 42             | 60      | -6                       | .5                   | -.5                      | .5                          | 13.7                        | 180                         | 16.9                       | 186                        | 85                 | 42                        | 0            | 0              | 1                   | 0                   |  |
| NE NORTH PLATTE           | 73                 | 44                 | 92              | 39             | 58      | -5                       | .7                   | -.1                      | .7                          | 8.9                         | 135                         | 10.3                       | 134                        | 73                 | 35                        | 1            | 0              | 3                   | 1                   |  |
| NE OMAHA                  | 71                 | 49                 | 82              | 45             | 60      | -7                       | 1.4                  | -.3                      | .7                          | 14.6                        | 159                         | 15.8                       | 141                        | 84                 | 48                        | 0            | 0              | 4                   | 1                   |  |
| NE SCOTTSBLUFF            | 77                 | 45                 | 91              | 43             | 61      | -1                       | T                    | -.7                      | T                           | 6.7                         | 124                         | 7.6                        | 121                        | 71                 | 26                        | 2            | 0              | 0                   | 0                   |  |
| NE VALENTINE              | 75                 | 43                 | 95              | 34             | 59      | -4                       | .1                   | -.6                      | .1                          | 6.3                         | 109                         | 6.8                        | 103                        | 69                 | 32                        | 1            | 0              | 2                   | 0                   |  |
| NV ELY                    | 79                 | 37                 | 89              | 32             | 58      | 4                        | .2                   | 0                        | .2                          | 2.4                         | 83                          | 3.2                        | 71                         | 79                 | 19                        | 0            | 1              | 1                   | 0                   |  |
| NV LAS VEGAS              | 101                | 74                 | 108             | 71             | 88      | 10                       | 0                    | 0                        | 0                           | 0                           | 0                           | 0                          | T                          | 0                  | 22                        | 7            | 7              | 0                   | 0                   |  |
| NV RENO                   | 84                 | 44                 | 94              | 38             | 64      | 5                        | 0                    | -.1                      | 0                           | .6                          | 33                          | 1.2                        | 29                         | 60                 | 13                        | 2            | 0              | 0                   | 0                   |  |
| NV WINNEMUCCA             | 80                 | 40                 | 94              | 33             | 60      | 1                        | T                    | -.2                      | T                           | 4.1                         | 205                         | 5.1                        | 131                        | 62                 | 16                        | 1            | 0              | 0                   | 0                   |  |
| NH CONCORD                | 60                 | 47                 | 71              | 44             | 54      | -7                       | 6.7                  | 6.0                      | 2.4                         | 17.2                        | 198                         | 24.2                       | 169                        | 97                 | 73                        | 0            | 0              | 6                   | 4                   |  |
| NJ ATLANTIC CITY          | 70                 | 54                 | 77              | 45             | 62      | -3                       | 4.9                  | 4.3                      | 2.8                         | 17.7                        | 172                         | 23.7                       | 135                        | 90                 | 60                        | 0            | 0              | 5                   | 2                   |  |
| NM ALBUQUERQUE            | 87                 | 57                 | 96              | 54             | 72      | 3                        | T                    | 0                        | T                           | 1.3                         | 118                         | 1.6                        | 80                         | 57                 | 17                        | 2            | 0              | 1                   | 0                   |  |
| NM CLOVIS                 | 81                 | 55                 | 91              | 48             | 68      | -2                       | T                    | -.6                      | T                           | 4.5                         | 122                         | 4.9                        | 104                        | 69                 | 28                        | 1            | 0              | 0                   | 0                   |  |
| NM ROSWELL                | 86                 | 61                 | 98              | 55             | 74      | -2                       | .5                   | .3                       | .5                          | 3.0                         | 214                         | 3.0                        | 143                        | 65                 | 26                        | 3            | 0              | 2                   | 0                   |  |
| NY ALBANY                 | 61                 | 46                 | 72              | 37             | 53      | -9                       | 4.2                  | 3.4                      | 2.0                         | 15.3                        | 168                         | 19.6                       | 138                        | 96                 | 65                        | 0            | 0              | 4                   | 3                   |  |
| NY BINGHAMTON             | 62                 | 46                 | 69              | 41             | 54      | -6                       | 2.3                  | 1.5                      | 1.7                         | 13.4                        | 141                         | 18.4                       | 123                        | 88                 | 54                        | 0            | 0              | 3                   | 2                   |  |
| NY BUFFALO                | 62                 | 46                 | 73              | 44             | 54      | -8                       | .7                   | .1                       | .7                          | 8.6                         | 99                          | 13.8                       | 96                         | 90                 | 50                        | 0            | 0              | 2                   | 1                   |  |
| NY NEW YORK               | 68                 | 56                 | 76              | 49             | 62      | -5                       | 6.0                  | 5.2                      | 2.2                         | 19.6                        | 175                         | 25.4                       | 142                        | 91                 | 63                        | 0            | 0              | 6                   | 4                   |  |
| NY ROCHESTER              | 61                 | 43                 | 72              | 37             | 52      | -10                      | 1.0                  | .4                       | .9                          | 10.3                        | 134                         | 15.4                       | 122                        | 90                 | 49                        | 0            | 0              | 2                   | 1                   |  |
| NY SYRACUSE               | 62                 | 43                 | 72              | 39             | 52      | -10                      | 1.4                  | .6                       | .9                          | 9.9                         | 101                         | 14.6                       | 95                         | 96                 | 56                        | 0            | 0              | 3                   | 2                   |  |
| NC ASHEVILLE              | 73                 | 47                 | 83              | 34             | 60      | -7                       | 1.7                  | .7                       | 1.4                         | 15.1                        | 117                         | 23.9                       | 115                        | 99                 | 55                        | 0            | 0              | 2                   | 1                   |  |
| NC CHARLOTTE              | 77                 | 55                 | 85              | 42             | 66      | -6                       | 1.0                  | .2                       | 1.0                         | 15.1                        | 132                         | 25.0                       | 128                        | 79                 | 43                        | 0            | 0              | 2                   | 1                   |  |
| NC GREENSBORO             | 74                 | 53                 | 85              | 40             | 64      | -6                       | 2.5                  | 1.7                      | 2.2                         | 14.3                        | 138                         | 23.1                       | 129                        | 80                 | 51                        | 0            | 0              | 2                   | 1                   |  |
| NC HATTERAS               | 76                 | 65                 | 83              | 56             | 71      | 0                        | 3.4                  | 2.5                      | 2.4                         | 13.9                        | 125                         | 20.6                       | 100                        | 93                 | 63                        | 0            | 0              | 5                   | 2                   |  |
| NC NEW BERN               | 82                 | 63                 | 89              | 52             | 73      | 0                        | 4.0                  | 2.9                      | 3.9                         | 18.2                        | 167                         | 26.7                       | 136                        | 85                 | 51                        | 0            | 0              | 2                   | 1                   |  |
| NC RALFICH                | 77                 | 54                 | 85              | 42             | 66      | -5                       | 4.0                  | 3.2                      | 2.5                         | 15.4                        | 150                         | 25.9                       | 146                        | 92                 | 55                        | 0            | 0              | 4                   | 3                   |  |
| NC WILMINGTON             | 81                 | 61                 | 86              | 50             | 71      | -3                       | 3.5                  | 2.4                      | 3.5                         | 14.1                        | 124                         | 21.6                       | 113                        | 89                 | 55                        | 0            | 0              | 2                   | 1                   |  |
| ND BISMARCK               | 74                 | 43                 | 85              | 33             | 58      | -1                       | .1                   | -.6                      | .1                          | 5.6                         | 119                         | 6.3                        | 115                        | 69                 | 27                        | 0            | 0              | 1                   | 0                   |  |
| ND FARGO                  | 76                 | 44                 | 90              | 34             | 60      | -1                       | T                    | -.6                      | T                           | 3.4                         | 65                          | 5.3                        | 84                         | 70                 | 22                        | 1            | 0              | 0                   | 0                   |  |
| ND GRAND FORKS            | 81                 | 46                 | 95              | 35             | 64      | 4                        | T                    | -.6                      | T                           | 3.4                         | 77                          | 4.5                        | 80                         | 69                 | 20                        | 2            | 0              | 1                   | 0                   |  |
| ND WILLISTON              | 77                 | 47                 | 98              | 37             | 62      | 3                        | T                    | -.6                      | T                           | 2.7                         | 71                          | 3.6                        | 73                         | 57                 | 17                        | 1            | 0              | 1                   | 0                   |  |
| OH AKRON-CANTON           | 65                 | 47                 | 79              | 43             | 56      | -7                       | 1.0                  | .2                       | .9                          | 11.5                        | 114                         | 15.5                       | 102                        | 84                 | 50                        | 0            | 0              | 3                   | 1                   |  |
| OH CINCINNATI             | 71                 | 46                 | 84              | 37             | 58      | -9                       | .7                   | .2                       | .4                          | 13.1                        | 117                         | 16.3                       | 92                         | 89                 | 49                        | 0            | 0              | 2                   | 0                   |  |
| OH CLEVELAND              | 62                 | 45                 | 76              | 39             | 53      | -10                      | .9                   | .2                       | .5                          | 11.9                        | 125                         | 17.1                       | 116                        | 89                 | 52                        | 0            | 0              | 5                   | 0                   |  |
| OH COLUMBUS               | 67                 | 45                 | 84              | 36             | 56      | -10                      | .9                   | 0                        | .6                          | 11.8                        | 111                         | 14.8                       | 93                         | 88                 | 49                        | 0            | 0              | 2                   | 1                   |  |

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

Weather Data for the Week Ending JUNE 2, 1984

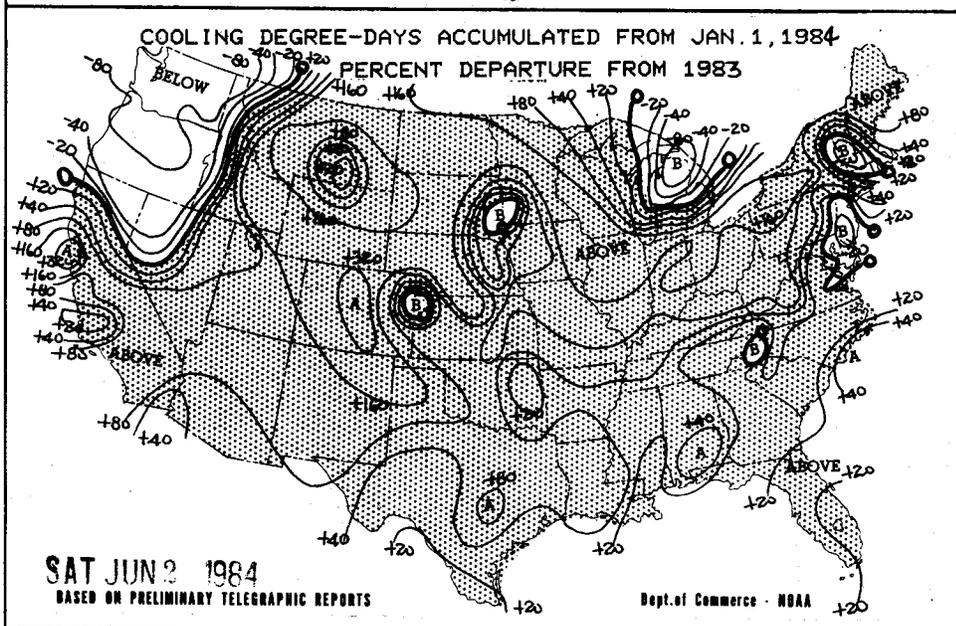
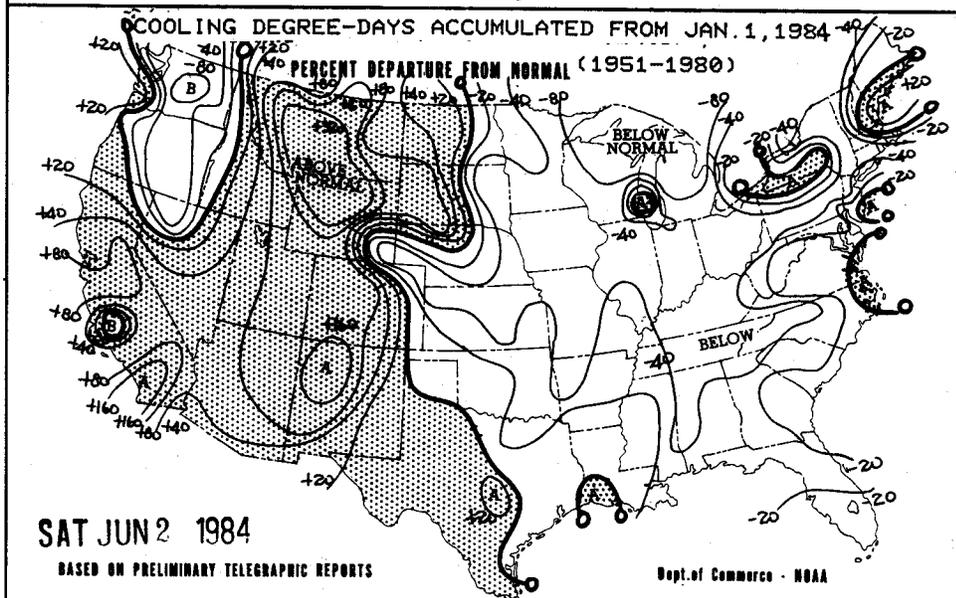
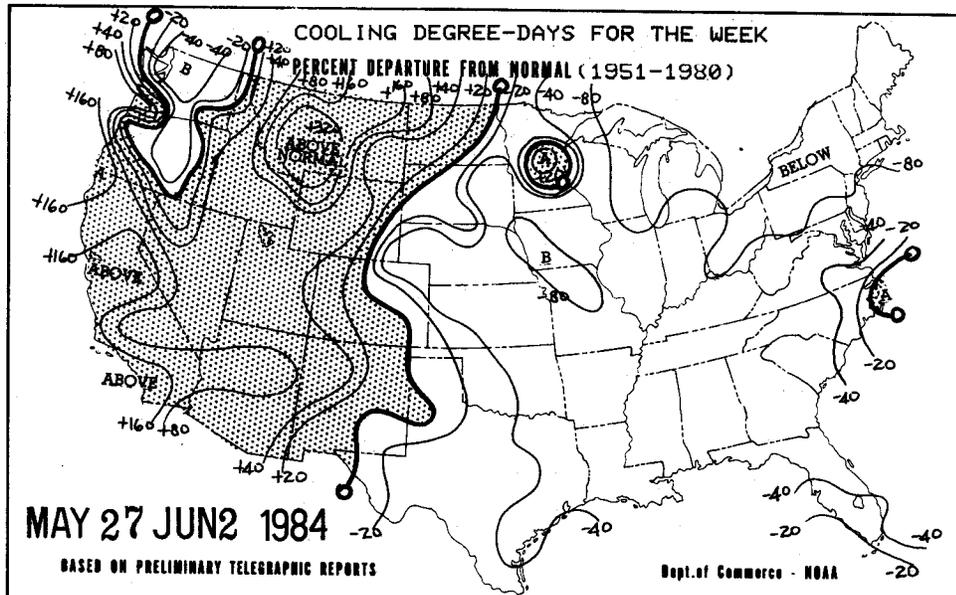
| STATES<br>AND<br>STATIONS | TEMPERATURE °F     |                    |                 |                |         |                          | PRECIPITATION        |                          |                             |                             |                             |                            | RELATIVE HUMIDITY, PERCENT |                    | NUMBER OF DAYS     |              |              |             |    |                     |                     |
|---------------------------|--------------------|--------------------|-----------------|----------------|---------|--------------------------|----------------------|--------------------------|-----------------------------|-----------------------------|-----------------------------|----------------------------|----------------------------|--------------------|--------------------|--------------|--------------|-------------|----|---------------------|---------------------|
|                           | AVERAGE<br>MAXIMUM | AVERAGE<br>MINIMUM | EXTREME<br>HIGH | EXTREME<br>LOW | AVERAGE | DEPARTURE<br>FROM NORMAL | WEEKLY<br>TOTAL, IN. | DEPARTURE<br>FROM NORMAL | GREATEST IN<br>24-HOUR, IN. | TOTAL, IN.,<br>SINCE MAR. 4 | PCT. NORMAL<br>SINCE MAR. 4 | TOTAL, IN.,<br>SINCE JAN 1 | PCT. NORMAL<br>SINCE JAN 1 | AVERAGE<br>MAXIMUM | AVERAGE<br>MINIMUM | 90 AND ABOVE | 32 AND BELOW | TEMPERATURE |    | PRECIPITATION       |                     |
|                           |                    |                    |                 |                |         |                          |                      |                          |                             |                             |                             |                            |                            |                    |                    |              |              | °F          | °F | .01 INCH<br>OR MORE | .50 INCH<br>OR MORE |
| DAYTON                    | 67                 | 46                 | 85              | 37             | 57      | -10                      | .5                   | .4                       | .5                          | 11.5                        | 111                         | 15.4                       | 99                         | 77                 | 45                 | 0            | 0            | 1           | 0  |                     |                     |
| TOLEDO                    | 65                 | 45                 | 85              | 36             | 55      | -9                       | .8                   | 0                        | .4                          | 12.0                        | 136                         | 14.2                       | 109                        | 95                 | 52                 | 0            | 0            | 5           | 0  |                     |                     |
| YOUNGSTOWN                | 65                 | 47                 | 77              | 43             | 56      | -6                       | 1.2                  | .4                       | 1.0                         | 11.0                        | 110                         | 14.6                       | 95                         | 54                 | 0                  | 0            | 4            | 1           |    |                     |                     |
| OK OKLAHOMA CITY          | 79                 | 56                 | 94              | 46             | 68      | -5                       | .8                   | .3                       | .8                          | 8.0                         | 76                          | 9.6                        | 73                         | 97                 | 39                 | 1            | 1            | 1           | 1  |                     |                     |
| TULSA                     | 76                 | 56                 | 86              | 46             | 66      | -7                       | 8.0                  | .9                       | 8.0                         | 20.1                        | 160                         | 23.4                       | 147                        | 88                 | 51                 | 0            | 0            | 1           | 1  |                     |                     |
| OR ASTORIA                | 63                 | 44                 | 76              | 39             | 53      | -1                       | .1                   | .6                       | .1                          | 16.0                        | 116                         | 31.3                       | 92                         | 90                 | 58                 | 0            | 0            | 1           | 0  |                     |                     |
| BURNS                     | 70                 | 37                 | 87              | 30             | 54      | -2                       | .1                   | .1                       | .1                          | 3.7                         | 218                         | 4.7                        | 188                        | 56                 | 38                 | 0            | 1            | 1           | 0  |                     |                     |
| MEDFORD                   | 83                 | 45                 | 98              | 34             | 64      | 3                        | 0                    | .2                       | 0                           | 3.4                         | 85                          | 6.1                        | 62                         | 81                 | 26                 | 2            | 0            | 0           | 0  |                     |                     |
| PENDLETON                 | 73                 | 46                 | 87              | 38             | 59      | -3                       | 0                    | .2                       | 0                           | 4.6                         | 153                         | 7.0                        | 115                        | 75                 | 29                 | 0            | 0            | 0           | 0  |                     |                     |
| PORTLAND                  | 73                 | 50                 | 86              | 46             | 62      | 2                        | T                    | .4                       | T                           | 9.8                         | 127                         | 15.8                       | 86                         | 81                 | 38                 | 0            | 0            | 0           | 0  |                     |                     |
| SALEM                     | 73                 | 43                 | 85              | 37             | 58      | 0                        | 0                    | .4                       | 0                           | 11.3                        | 141                         | 19.0                       | 94                         | 91                 | 41                 | 0            | 0            | 0           | 0  |                     |                     |
| PA ALLENTOWN              | 69                 | 53                 | 76              | 45             | 61      | -4                       | 3.4                  | 2.6                      | 1.7                         | 18.6                        | 162                         | 23.8                       | 129                        | 86                 | 56                 | 0            | 0            | 4           | 2  |                     |                     |
| ERIE                      | 61                 | 44                 | 73              | 40             | 53      | -8                       | .8                   | 0                        | .7                          | 10.6                        | 105                         | 14.6                       | 96                         | 89                 | 54                 | 0            | 0            | 6           | 1  |                     |                     |
| HARRISBURG                | 68                 | 60                 | 79              | 60             | 64      | -3                       | 4.9                  | 4.1                      | 1.9                         | 16.6                        | 164                         | 22.7                       | 139                        | --                 | --                 | 0            | 0            | 4           | 3  |                     |                     |
| PHILADELPHIA              | 71                 | 53                 | 75              | 44             | 62      | -6                       | 4.6                  | 3.8                      | 2.2                         | 17.5                        | 165                         | 22.4                       | 131                        | 84                 | 55                 | 0            | 0            | 5           | 1  |                     |                     |
| PITTSBURGH                | 67                 | 46                 | 76              | 41             | 57      | -8                       | 1.4                  | .6                       | 1.3                         | 11.5                        | 111                         | 15.0                       | 93                         | 82                 | 43                 | 0            | 0            | 4           | 1  |                     |                     |
| SCRANTON                  | 66                 | 51                 | 72              | 42             | 59      | -5                       | 2.9                  | 2.1                      | 1.4                         | 13.4                        | 151                         | 17.6                       | 128                        | 86                 | 58                 | 0            | 0            | 3           | 2  |                     |                     |
| RI PROVIDENCE             | 65                 | 54                 | 77              | 51             | 59      | -3                       | 7.8                  | 7.1                      | 5.1                         | 20.1                        | 173                         | 29.7                       | 148                        | 92                 | 71                 | 0            | 0            | 6           | 4  |                     |                     |
| SC CHARLESTON             | 80                 | 62                 | 87              | 49             | 71      | -5                       | 2.4                  | 1.1                      | 1.4                         | 18.4                        | 160                         | 27.0                       | 144                        | 89                 | 53                 | 0            | 0            | 3           | 2  |                     |                     |
| COLUMBIA                  | 81                 | 58                 | 91              | 44             | 70      | -5                       | 1.3                  | .3                       | .9                          | 13.6                        | 110                         | 22.6                       | 105                        | 92                 | 47                 | 1            | 0            | 2           | 1  |                     |                     |
| FLORENCE                  | 79                 | 58                 | 87              | 45             | 69      | -5                       | 1.3                  | .5                       | .7                          | 15.0                        | 147                         | 22.3                       | 127                        | 86                 | 48                 | 0            | 0            | 3           | 2  |                     |                     |
| GREENVILLE                | 81                 | 56                 | 88              | 43             | 69      | -3                       | 1.2                  | .2                       | 1.0                         | 18.9                        | 132                         | 29.1                       | 122                        | 81                 | 41                 | 0            | 0            | 2           | 1  |                     |                     |
| SD ABERDEEN               | 70                 | 47                 | 83              | 39             | 59      | -3                       | .1                   | .6                       | .1                          | 5.3                         | 91                          | 6.7                        | 96                         | 79                 | 38                 | 0            | 0            | 2           | 0  |                     |                     |
| HURON                     | 71                 | 45                 | 84              | 37             | 58      | -5                       | 2.3                  | 1.6                      | 1.4                         | 7.2                         | 120                         | 8.8                        | 121                        | 96                 | 49                 | 0            | 0            | 2           | 2  |                     |                     |
| RAPID CITY                | 70                 | 41                 | 85              | 32             | 56      | -5                       | .3                   | .4                       | .2                          | 5.4                         | 92                          | 5.8                        | 83                         | 81                 | 39                 | 0            | 1            | 2           | 0  |                     |                     |
| SIOUX FALLS               | 70                 | 46                 | 83              | 36             | 58      | -6                       | 1.5                  | .7                       | 1.5                         | 10.0                        | 139                         | 11.8                       | 137                        | 91                 | 50                 | 0            | 0            | 3           | 1  |                     |                     |
| TN CHATTANOOGA            | 77                 | 51                 | 87              | 40             | 64      | -8                       | .5                   | .3                       | .5                          | 16.0                        | 111                         | 24.3                       | 96                         | 95                 | 45                 | 0            | 0            | 1           | 0  |                     |                     |
| KNOXVILLE                 | 74                 | 50                 | 85              | 38             | 62      | -9                       | .4                   | .4                       | .4                          | 17.2                        | 135                         | 24.0                       | 108                        | 98                 | 55                 | 0            | 0            | 1           | 0  |                     |                     |
| MEMPHIS                   | 79                 | 57                 | 87              | 49             | 68      | -7                       | .8                   | .1                       | .8                          | 20.1                        | 126                         | 26.5                       | 104                        | 79                 | 38                 | 0            | 0            | 2           | 1  |                     |                     |
| NASHVILLE                 | 77                 | 49                 | 87              | 38             | 63      | -9                       | T                    | .9                       | T                           | 22.9                        | 161                         | 27.1                       | 115                        | 93                 | 40                 | 0            | 0            | 1           | 0  |                     |                     |
| TX ABILENE                | 87                 | 60                 | 97              | 47             | 73      | -3                       | .1                   | .6                       | .1                          | 1.1                         | 16                          | 2.6                        | 29                         | 68                 | 27                 | 4            | 0            | 2           | 0  |                     |                     |
| AMARILLO                  | 85                 | 53                 | 98              | 40             | 69      | -1                       | T                    | .8                       | T                           | 2.1                         | 42                          | 3.1                        | 52                         | 68                 | 24                 | 3            | 0            | 0           | 0  |                     |                     |
| AUSTIN                    | 87                 | 61                 | 96              | 53             | 74      | -4                       | T                    | .9                       | T                           | 3.7                         | 41                          | 6.4                        | 48                         | 77                 | 31                 | 3            | 0            | 0           | 0  |                     |                     |
| BEAUMONT                  | 80                 | 62                 | 88              | 53             | 71      | -8                       | T                    | .9                       | T                           | 13.3                        | 119                         | 23.6                       | 122                        | 95                 | 51                 | 0            | 0            | 1           | 0  |                     |                     |
| BROWNSVILLE               | 84                 | 66                 | 89              | 56             | 75      | -6                       | .1                   | .5                       | .1                          | 6.4                         | 142                         | 11.7                       | 158                        | 91                 | 52                 | 0            | 0            | 1           | 0  |                     |                     |
| CORPUS CHRISTI            | 84                 | 64                 | 89              | 56             | 74      | -7                       | 0                    | .8                       | 0                           | 2.5                         | 40                          | 8.9                        | 92                         | 86                 | 42                 | 0            | 0            | 0           | 0  |                     |                     |
| DEL RIO                   | 86                 | 65                 | 92              | 59             | 76      | -5                       | .3                   | .1                       | .2                          | 2.0                         | 44                          | 4.3                        | 73                         | 79                 | 32                 | 2            | 0            | 2           | 0  |                     |                     |
| EL PASO                   | 92                 | 62                 | 100             | 57             | 77      | 0                        | T                    | .1                       | T                           | .9                          | 100                         | 1.2                        | 71                         | 57                 | 16                 | 4            | 0            | 0           | 0  |                     |                     |
| FORT WORTH                | 83                 | 58                 | 94              | 51             | 70      | -8                       | .7                   | .2                       | .5                          | 9.1                         | 88                          | 13.2                       | 94                         | 85                 | 37                 | 1            | 0            | 2           | 0  |                     |                     |
| GALVESTON                 | 79                 | 69                 | 84              | 61             | 74      | -5                       | .3                   | .5                       | .3                          | 6.3                         | 77                          | 10.5                       | 77                         | 76                 | 54                 | 0            | 0            | 2           | 0  |                     |                     |
| HOUSTON                   | 82                 | 59                 | 89              | 51             | 70      | -8                       | T                    | 1.0                      | T                           | 6.1                         | 52                          | 14.3                       | 76                         | 82                 | 43                 | 0            | 0            | 1           | 0  |                     |                     |
| LUBBOCK                   | 88                 | 59                 | 103             | 46             | 73      | 0                        | T                    | .7                       | T                           | .9                          | 19                          | 1.0                        | 18                         | 66                 | 24                 | 3            | 0            | 2           | 0  |                     |                     |
| MIDLAND                   | 86                 | 61                 | 98              | 52             | 73      | -3                       | T                    | .4                       | T                           | 3.3                         | 97                          | 3.9                        | 87                         | 63                 | 27                 | 3            | 0            | 0           | 0  |                     |                     |
| SAN ANGELO                | 87                 | 61                 | 95              | 53             | 74      | -4                       | .1                   | .5                       | .1                          | 1.3                         | 24                          | 4.3                        | 62                         | 76                 | 29                 | 4            | 0            | 1           | 0  |                     |                     |
| SAN ANTONIO               | 86                 | 60                 | 93              | 51             | 73      | -6                       | .6                   | .2                       | .6                          | 5.8                         | 72                          | 8.1                        | 70                         | 76                 | 33                 | 2            | 0            | 1           | 1  |                     |                     |
| VICTORIA                  | 84                 | 63                 | 90              | 54             | 74      | -6                       | T                    | 1.1                      | T                           | 5.9                         | 67                          | 10.4                       | 78                         | 82                 | 42                 | 1            | 0            | 1           | 0  |                     |                     |
| WACO                      | 85                 | 60                 | 97              | 50             | 73      | -5                       | 1.3                  | .5                       | 1.3                         | 7.6                         | 72                          | 9.4                        | 64                         | 84                 | 36                 | 2            | 0            | 1           | 1  |                     |                     |
| WICHITA FALLS             | 87                 | 58                 | 100             | 47             | 72      | -4                       | .4                   | .5                       | .3                          | 3.6                         | 38                          | 4.6                        | 39                         | 71                 | 26                 | 4            | 0            | 2           | 0  |                     |                     |
| UT BLANDING               | 84                 | 49                 | 90              | 44             | 66      | 4                        | .3                   | .2                       | .7                          | 1.7                         | 94                          | 2.4                        | 55                         | 58                 | 21                 | 2            | 0            | 2           | 0  |                     |                     |
| CEDAR CITY                | 87                 | 48                 | 96              | 40             | 68      | 6                        | .1                   | 0                        | .1                          | 3.0                         | 111                         | 4.5                        | 100                        | 60                 | 14                 | 3            | 0            | 1           | 0  |                     |                     |
| SALT LAKE CITY            | 81                 | 51                 | 93              | 44             | 66      | 3                        | .5                   | .2                       | .5                          | 7.3                         | 135                         | 8.7                        | 106                        | 67                 | 20                 | 2            | 0            | 3           | 1  |                     |                     |
| VT BURLINGTON             | 60                 | 44                 | 74              | 38             | 52      | -9                       | 1.7                  | .9                       | 1.1                         | 11.3                        | 138                         | 15.1                       | 125                        | 89                 | 55                 | 0            | 0            | 4           | 2  |                     |                     |
| VA NORFOLK                | 76                 | 59                 | 86              | 52             | 68      | -3                       | 4.2                  | 3.4                      | 3.0                         | 18.7                        | 182                         | 26.3                       | 147                        | 87                 | 48                 | 0            | 0            | 4           | 2  |                     |                     |
| RICHMOND                  | 75                 | 55                 | 86              | 46             | 65      | -5                       | 3.4                  | 2.6                      | 1.8                         | 19.3                        | 195                         | 27.4                       | 163                        | 96                 | 54                 | 0            | 0            | 5           | 2  |                     |                     |
| ROANOKE                   | 73                 | 51                 | 85              | 39             | 63      | -6                       | .8                   | .1                       | .3                          | 12.9                        | 123                         | 19.2                       | 112                        | 87                 | 54                 | 0            | 0            | 1           | 0  |                     |                     |
| WA COLVILLE               | 73                 | 42                 | 85              | 32             | 57      | 0                        | T                    | .4                       | T                           | 7.4                         | 195                         | 10.4                       | 137                        | 78                 | 36                 | 0            | 1            | 1           | 0  |                     |                     |
| QUILAYUTE                 | 62                 | 43                 | 74              | 35             | 53      | 0                        | .2                   | .7                       | .2                          | 27.7                        | 126                         | 61.3                       | 171                        | 98                 | 40                 | 0            | 0            | 2           | 0  |                     |                     |
| SEATTLE-TACOMA            | 67                 | 47                 | 81              | 42             | 57      | 0                        | .1                   | .3                       | .1                          | 10.1                        | 142                         | 17.6                       | 99                         | 80                 | 42                 | 0            | 0            | 1           | 0  |                     |                     |
| SPOKANE                   | 70                 | 41                 | 85              | 33             | 55      | -2                       | .1                   | .3                       | .1                          | 5.1                         | 142                         | 7.6                        | 97                         | 87                 | 29                 | 0            | 0            | 1           | 0  |                     |                     |
| YAKIMA                    | 74                 | 42                 | 90              | 30             | 58      | -3                       | 0                    | .1                       | 0                           | 2.6                         | 186                         | 3.6                        | 97                         | 70                 | 26                 | 1            | 1            | 0           | 0  |                     |                     |
| WV NECKLEY                | 66                 | 45                 | 78              | 33             | 56      | -8                       | .8                   | 0                        | .7                          | 10.3                        | 90                          | 15.9                       | 84                         | 96                 | 64                 | 0            | 0            | 3           | 1  |                     |                     |
| CHARLESTON                | 73                 | 50                 | 85              | 41             | 62      | -6                       | .3                   | .5                       | .2                          | 10.6                        | 95                          | 14.8                       | 81                         | 85                 | 45                 | 0            | 0            | 3           | 0  |                     |                     |
| HUNTINGTON                | 74                 | 51                 | 84              | 40             | 63      | -6                       | .9                   | 0                        | .7                          | 11.5                        | 98                          | 15.3                       | 85                         | 85                 | 48                 | 0            | 0            | 2           | 1  |                     |                     |
| PARKERSBURG               | 71                 | 51                 | 83              | 42             | 61      | -6                       | 1.3                  | .3                       | 1.2                         | 10.9                        | 93                          | 13.6                       | 70                         | 84                 | 42                 | 0            | 0            | 2           | 1  |                     |                     |
| WI GRFEN BAY              | 67                 | 43                 | 75              | 35             | 55      | -5                       | 0                    | .7                       | 0                           | 6.9                         | 86                          | 9.0                        | 87                         | 83                 | 38                 | 0            | 0            | 0           | 0  |                     |                     |
| LA CROSSE                 | 72                 | 47                 | 83              | 34             | 59      | -5                       | .1                   | .8                       | T                           | 8.2                         | 93                          | 9.2                        | 85                         | 83                 | 33                 | 0            | 0            | 3           | 0  |                     |                     |
| MADISON                   | 69                 | 41                 | 80              | 33             | 55      | -7                       | .5                   | .3                       | .4                          | 8.2                         | 93                          | 9.8                        | 88                         | 85                 | 41                 | 0            | 0            | 2           | 0  |                     |                     |
| MILWAUKEE                 | 67                 | 48                 | 82              | 42             | 58      | -2                       | 1.3                  | .6                       | 1.3                         | 10.9                        | 125                         | 13.0                       | 108                        | 74                 | 45                 | 0            | 0            | 4           | 1  |                     |                     |
| WAUSAU                    | 70                 | 44                 | 82              | 35             | 57      | -3                       | T                    | .9                       | T                           | 7.2                         | 82                          | 9.1                        | 85                         | 77                 | 31                 | 0            | 0            | 1           | 0  |                     |                     |
| WY GASPER                 | 75                 | 41                 | 88              | 32             | 58      | 0                        | T                    | .4                       | T                           | 5.2                         | 108                         | 7.0                        | 117                        | 91                 | 22                 | 0            | 1            | 1           | 0  |                     |                     |
| CHEYENNE                  | 70                 | 41                 | 86              | 31             | 56      | -2                       | .2                   | .3                       | .2                          | 6.2                         | 127                         | 7.6                        | 125                        | 84                 | 11                 | 0            | 1            | 1           | 0  |                     |                     |
| LANDER                    | 78                 | 45                 | 90              | 36             | 61      | 4                        | T                    | .5                       | T                           | 4.5                         | 73                          | 6.8                        | 93                         | 58                 | 18                 | 1            | 0            | 0           | 0  |                     |                     |
| SHERIDAN                  | 74                 | 39                 | 91              | 31             | 57      | -1                       | .1                   | .5                       | .1                          | 4.9                         | 86                          | 6.7                        | 92                         | 83                 | 27                 | 1            | 0            | 1           | 1  |                     |                     |
| PR SAN JUAN               | 88                 | 76                 | 92              | 73             | 82      | 1                        | 1.6                  | .4                       | 1.1                         | 4.3                         | 36                          | 9.5                        | 55                         | 87                 | 56                 | 3            | 0            | 5           | 1  |                     |                     |

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

COOLING DEGREE DAY DATA WEEKLY SUMMARY
CLIMATE ANALYSIS CENTER-NMC-NWS-NOAA
ASSESSMENT AND INFORMATION SERVICES CENTER-MESDIS-NOAA

LAST DATE OF DATA COLLECTION PERIOD IS 6-2-1984
ACCUMULATIONS ARE FROM JANUARY 1
\*\* = NORMAL LESS THAN 100 OR RATIO INCALCULABLE

Table with columns: STATE CITY, CALL WEEK, WEEK WEEK, CUM CUM CUM CUM CUM, CUM CUM CUM CUM CUM. Rows list various cities and their corresponding weather data points.



## May Weather and Crop Summary

### WEATHER SUMMARY

**HIGHLIGHTS:** Above-normal rain through the Corn Belt, the South, and the East slowed planting and fieldwork, but by the end of the month most planting was near normal despite the rain. Heavy rain through much of the Rio Grande Valley relieved drought conditions but much of the Texas high and low Plains and central Texas remained very dry. Dry weather also prevailed in the northern Plains, the western Great Lakes, parts of the Southwest, and the central Plateau. The Southwest was much warmer than normal and the warm area spread northeastward over the central Plateau. The Northwest and the East were cooler than normal, 3-5 degrees cooler across the Corn Belt.

**FIRST WEEK...**The month began on Tuesday. A series of storms moved eastward along a quasi-stationary front that reached from Texas through Georgia. Showers and thunderstorms covered most of the area east of the Rockies except the southern Plains. Tornadoes hit in parts of the central Plains and were frequent and devastating from southern Arkansas to Georgia and South Carolina. Unusually hot weather set temperature records in central and southern Texas, further exacerbating dry weather there.

**SECOND WEEK...**Significant rain fell in the form of showers and thunderstorms from southeastern Texas through New England. The showers were most beneficial in southeastern Texas which had been very dry. Unusually heavy rain from northern Mississippi into Kentucky caused property damage and local flooding. Moderate showers also fell from east-central Nebraska through the western Great Lakes. Much of the Corn Belt accumulated only light amounts of rain. Freezing temperatures early in the week covered the Rockies and Plateau, and pushed into the western portion of the central Plains, and the northern Plains. Later, unusually warm weather spread northeastward from the Southwest.

**THIRD WEEK...**Warm, moist air from the Gulf of Mexico triggered showers as it spread through the southern and central Plains and then eastward across the lower Great Lakes region and to the mid-Atlantic States. Heavy showers in much of southern and western Texas helped the dry conditions there but some areas still need rain. Showers spread over dry parts of eastern Montana and into Canada. High pressure over the eastern United States caused unusually cold weather, and at midweek freezing temperatures spread over most of southern Michigan and into the Appalachians. Warmer weather returned at the end of the week. Warm weather prevailed through the Plains and the West during most of the week but cooling began late in the week.

**FOURTH WEEK...**A series of cold fronts moved into the northern Plains and then eastward across the Corn Belt. Some planting continued despite occasional rain. Warm, moist air from the Gulf of Mexico continued to move over the southern States and triggered thunderstorms along and ahead of the cold fronts as they moved through the Corn Belt and the Northeast. Freezing temperatures again pushed into the northern Plains late in the week. Average temperatures for the week were cooler than normal in the northwestern States and the northern Plains. It was much warmer than normal in the Southwest and through most of Texas.

The last five days of the month brought showers to the western portion of the Corn Belt and they moved eastward leaving clear weather behind. Heavy

showers and thunderstorms covered the East Coast States. Clearing began in the Southeast and mid-Atlantic States as the month ended but heavy rain continued in the Northeast.

### FIELDWORK

Widespread rainfall delayed fieldwork across the eastern half of the Nation for most of May. Land preparation and planting fell further behind schedule until midmonth when a week of generally open weather allowed rapid progress. Abnormally cool temperatures slowed emergence and development of most crops for much of the month from the northern Plains to the east coast. Dryland crops and ranges were severely stressed by persistent hot, dry weather from California through Texas. Soil moisture was generally adequate to surplus elsewhere during the month, except in Montana where some shortages were evident.

At the beginning of May, corn planting was 5% finished, 8 points less than average. By June 3, planting had reached 90% completion, 1 point behind average. Progress was 26 points behind normal in Pennsylvania and 6 points behind in Illinois. Georgia and North Carolina corn plantings were complete at the end of the month. Fields began silking across the South at the month's end and stands were rated fair to mostly good.

Soybean planting in the major producing States was 51% complete by June 3, lagging the average of 60%. Planting was behind in all States, except Arkansas, Kansas, Louisiana, Minnesota, and Mississippi. Progress was 36 points behind average in Michigan, 25 in Ohio and 23 in Alabama. Emerged plants were in mostly fair to good condition.

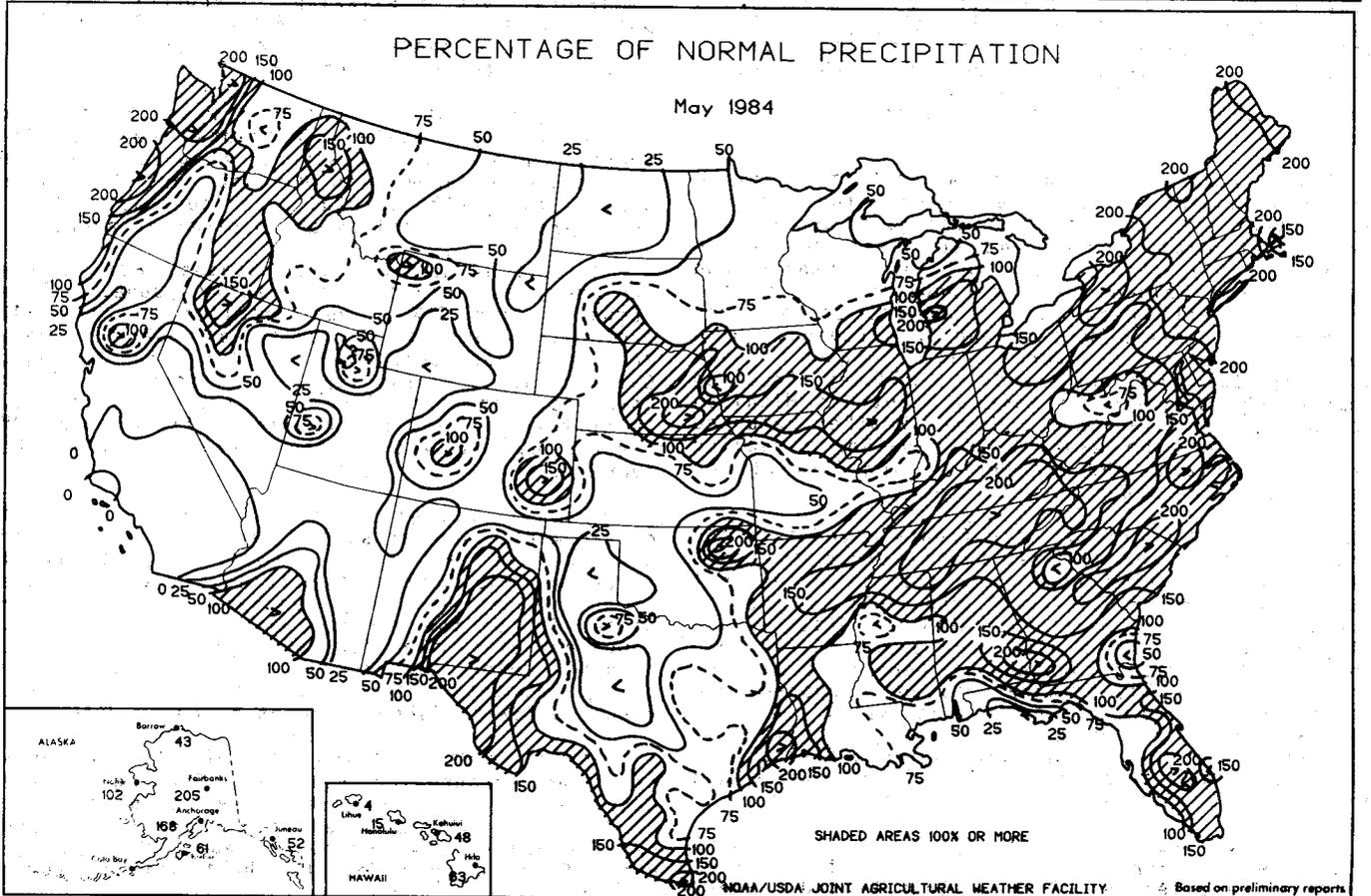
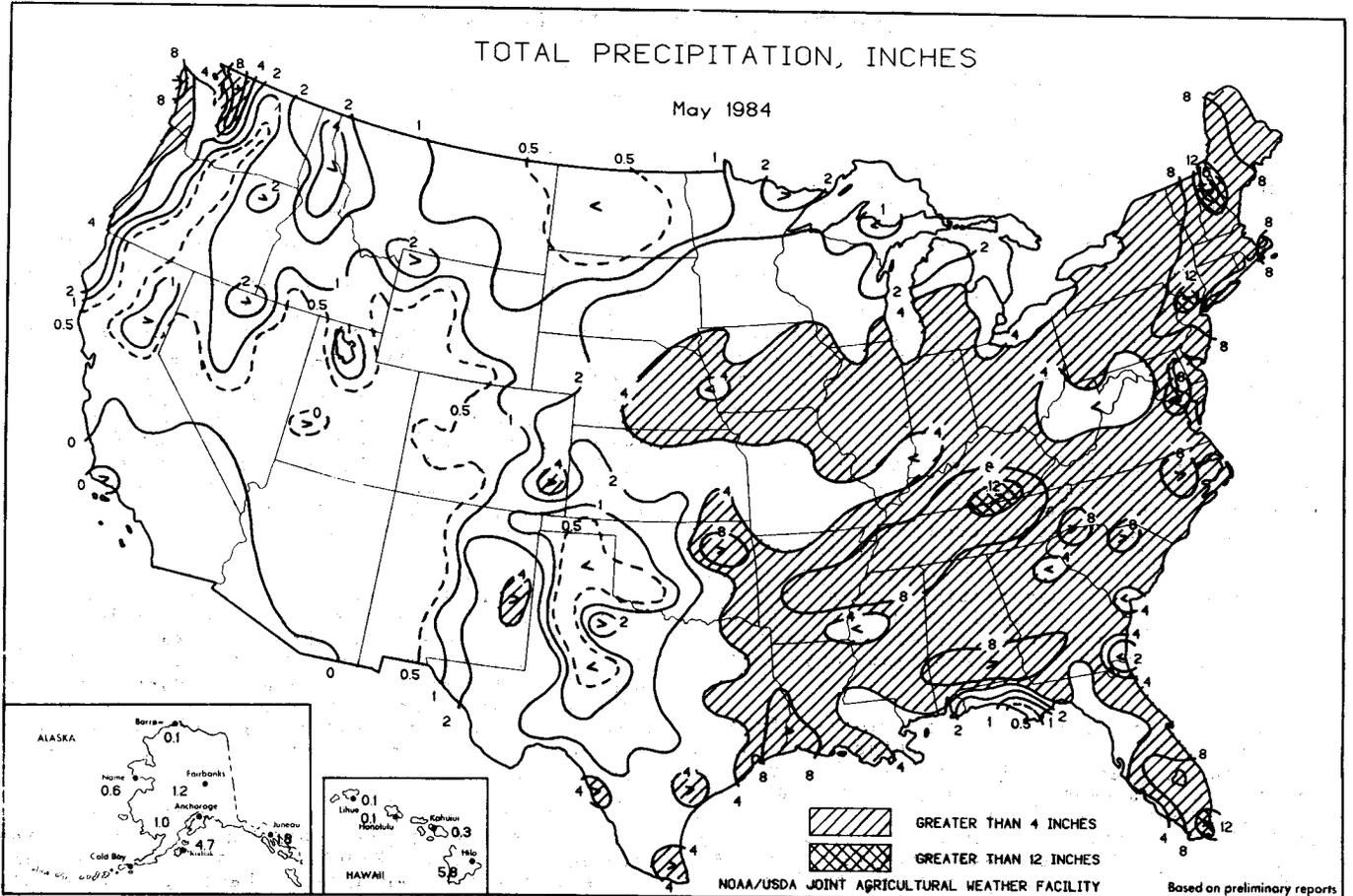
Sorghum planting by June 3 was 53% finished in the 7 major States, 3 points ahead of the average progress. However, progress was 20 points behind normal in Nebraska and 18 points behind in South Dakota. In contrast, Texas producers were 15 points ahead of their average.

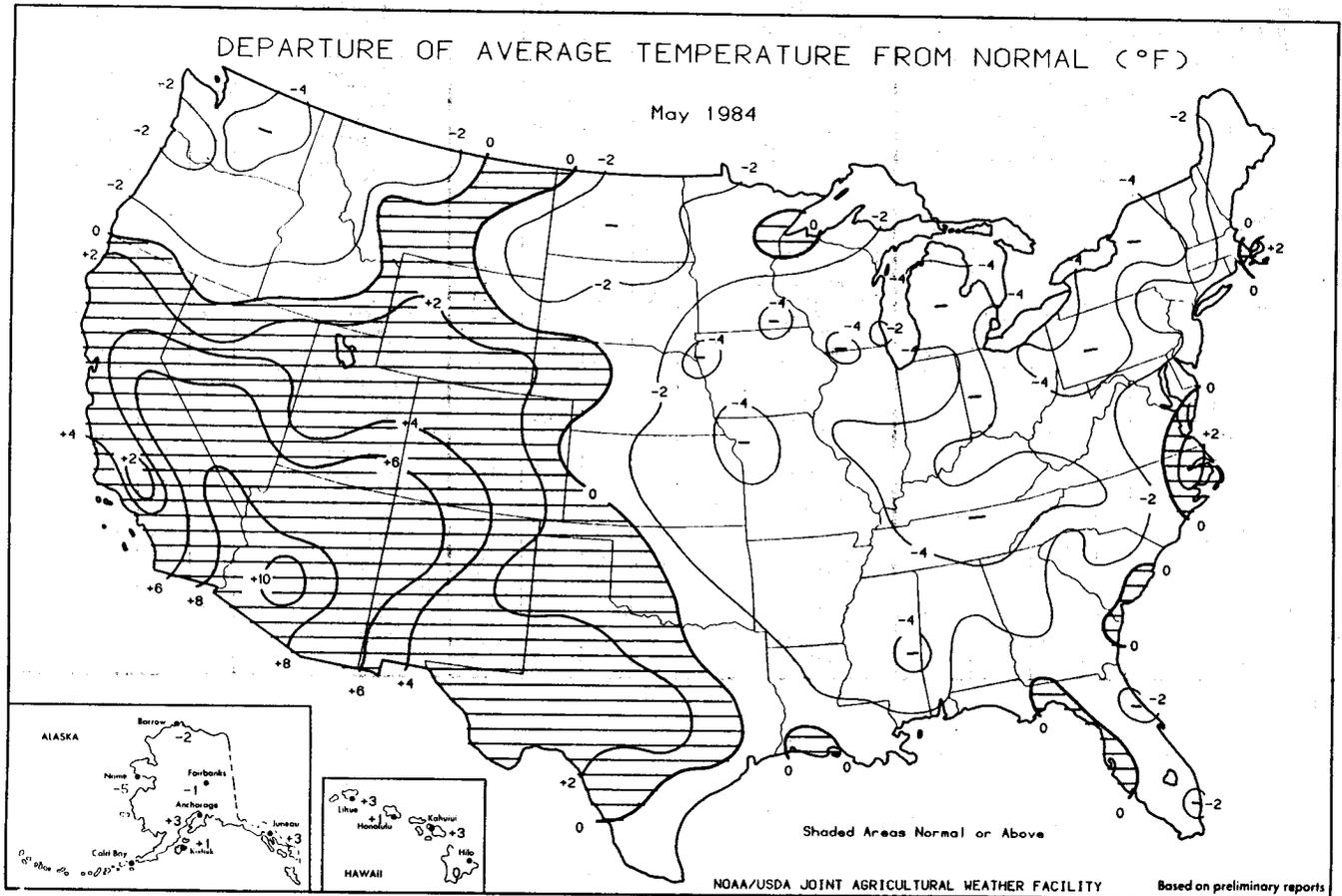
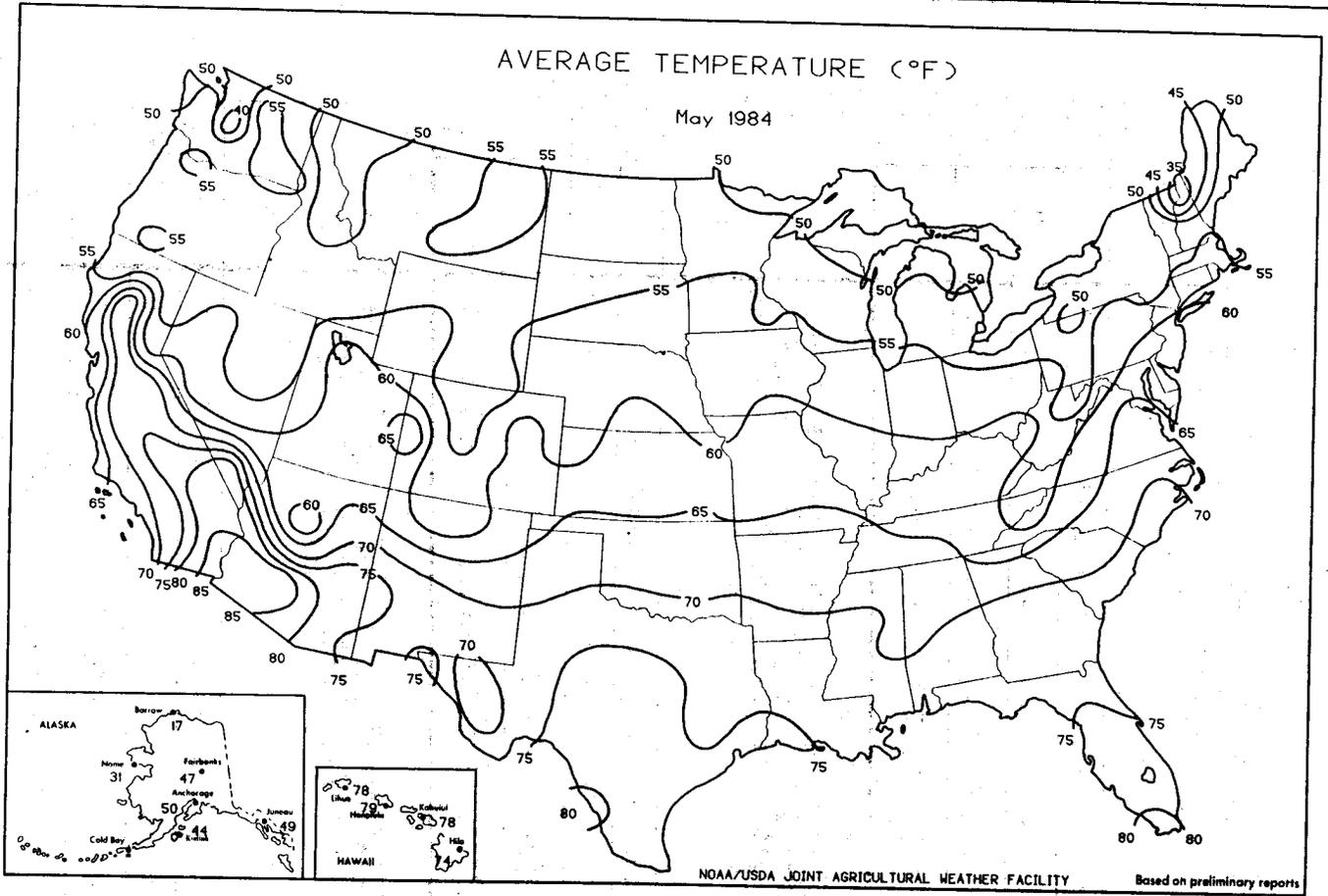
In the 14 major cotton States, 80% of the acreage was planted by early June. This compares with 76% a year earlier and the 84% average. Planting in Texas was 65% finished. Producers had completed planting in Arizona, California, Mississippi, Missouri, North Carolina, and South Carolina by the end of May. In southern areas, early planted fields were 8% squared by the end of the month, equaling the average.

Abnormally cool weather slowed winter wheat development, however stands were in fair to good condition as May ended. Stands in portions of Texas and the Southwest matured rapidly because of persistent hot, dry weather. In the major States 68% of the acreage was headed by June 3, compared with the 78% average. Stands were turning color across the South. Harvesting gained momentum in extreme southern areas, reaching 26% finished in Texas by early June.

Spring wheat seeding got off to an early start and progressed rapidly. Seeding in the major producing States reach 99% completion as of June 3, 4 points ahead of average. The crop had emerged on 89% of the acreage. Stands were rated fair to good despite short soil moisture supplies in some areas.

(continued on back cover)





Temperature and Precipitation Data for May 1984

| States and Stations | Temperature °F |           | Precipitation Inches |           | States and Stations | Temperature °F |           | Precipitation Inches |           | States and Stations | Temperature °F |           | Precipitation Inches |           |
|---------------------|----------------|-----------|----------------------|-----------|---------------------|----------------|-----------|----------------------|-----------|---------------------|----------------|-----------|----------------------|-----------|
|                     | Average        | Departure | Total                | Departure |                     | Average        | Departure | Total                | Departure |                     | Average        | Departure | Total                | Departure |
| AL BIRMINGHAM       | 68             | -3        | 5.4                  | 0.9       | BATON ROUGE         | 74             | -1        | 3.7                  | -1.0      | CLEVELAND           | 54             | -5        | 5.9                  | 2.6       |
| MOBILE              | 72             | -3        | 4.3                  | -1.2      | LAKE CHARLES        | 76             | 0         | 8.2                  | 3.1       | COLUMBUS            | 57             | -3        | 5.0                  | 1.2       |
| MONTGOMERY          | 71             | -1        | 6.1                  | 2.1       | NEW ORLEANS         | 74             | -1        | 3.5                  | -1.6      | DAYTON              | 57             | -5        | 4.2                  | 0.5       |
| AK ANCHORAGE        | 50             | 4         | 1.0                  | 0.4       | SHREVEPORT          | 72             | -1        | 5.9                  | 1.2       | TOLEDO              | 54             | -5        | 3.5                  | 0.6       |
| BARROW              | 17             | -2        | 0.7                  | 0.5       | ME CHARIBOU         | 49             | -1        | 5.7                  | 2.8       | YOUNGSTOWN          | 55             | -3        | 5.8                  | 2.5       |
| FAIRBANKS           | 47             | -1        | 1.2                  | 0.6       | PORTLAND            | 53             | 0         | 9.7                  | 6.4       | OK OKLAHOMA CITY    | 68             | 0         | 1.6                  | -3.9      |
| JUNEAU              | 49             | 3         | 1.8                  | -1.7      | MD BALTIMORE        | 61             | -2        | 4.2                  | 0.8       | TULSA               | 68             | -2        | 11.3                 | 6.1       |
| KODIAK              | 44             | 1         | 4.7                  | -3.0      | MA SALISBURY        | 63             | -1        | 5.8                  | 2.4       | OR ASTORIA          | 51             | -1        | 5.4                  | 2.5       |
| NOME                | 31             | -5        | 0.4                  | -0.1      | BOSTON              | 58             | -1        | 8.8                  | 5.3       | BURNS               | 50             | -2        | 1.0                  | 0.3       |
| AZ FLAGSTAFF        | 67             | 10        | 0.2                  | 0.1       | CHATHAM             | 55             | 2         | 5.4                  | 1.7       | MEDFORD             | 59             | 0         | 0.4                  | -0.8      |
| PHOENIX             | 87             | 10        | 0.2                  | -0.6      | MI ALPENA           | 48             | -3        | 1.9                  | -1.0      | PENDLETON           | 55             | -4        | 1.0                  | -0.1      |
| PRESCOTT            | 68             | 10        | T                    | -0.5      | DETROIT             | 55             | -3        | 3.6                  | 0.8       | PORTLAND            | 57             | -1        | 3.4                  | 1.4       |
| TUCSON              | 80             | 7         | 0.1                  | 0.0       | FLINT               | 51             | -5        | 3.5                  | 0.7       | SALEM               | 53             | -2        | 3.3                  | 1.4       |
| WINSLOW             | 69             | 7         | T                    | -0.3      | GRAND RAPIDS        | 53             | -5        | 4.8                  | 1.7       | PA ALLENTOWN        | 59             | -1        | 10.7                 | 7.1       |
| YUMA                | 86             | 8         | T                    | 0.0       | HOUGHTON LAKE       | 50             | -4        | 2.6                  | 0.0       | ERIE                | 54             | -1        | 5.8                  | 2.5       |
| AR FORT SMITH       | 67             | -3        | 4.7                  | -0.1      | LANSING             | 52             | -4        | 3.9                  | 1.3       | HARRISBURG          | 58             | -4        | 6.2                  | 2.5       |
| LITTLE ROCK         | 68             | -3        | 8.1                  | 2.8       | MARQUETTE           | 48             | -2        | 0.8                  | -2.2      | PHILADELPHIA        | 60             | -3        | 6.9                  | 3.7       |
| CA BAKERSFIELD      | 71             | 0         | 0.0                  | -0.2      | MUSKEGON            | 51             | -5        | 5.6                  | 3.1       | PITTSBURGH          | 55             | -5        | 5.2                  | 1.7       |
| EUREKA              | 55             | 3         | 2.6                  | 1.0       | MN SAULT ST. MARIE  | 48             | -3        | 1.2                  | -1.8      | SCRANTON            | 57             | -1        | 6.7                  | 3.5       |
| FRESNO              | 75             | 7         | T                    | -0.3      | ALEXANDRIA          | 55             | -1        | 2.4                  | -0.6      | RI PROVIDENCE       | 57             | -1        | 8.4                  | 4.9       |
| LOS ANGELES         | 66             | 4         | T                    | -0.1      | DULUTH              | 51             | 1         | 1.8                  | -1.4      | SC CHARLESTON       | 72             | 0         | 6.9                  | 2.4       |
| RED BLUFF           | 71             | 3         | T                    | -0.8      | INT'L FALLS         | 49             | -2        | 1.7                  | -0.8      | COLUMBIA            | 70             | -2        | 4.3                  | 0.4       |
| SACRAMENTO          | 70             | 5         | T                    | -0.3      | MINNEAPOLIS         | 56             | -3        | 2.3                  | -0.9      | FLORENCE            | 69             | -3        | 4.7                  | 1.4       |
| SAN DIEGO           | 68             | 5         | 0.0                  | -0.2      | ROCHESTER           | 53             | -4        | 2.9                  | -0.6      | GREENVILLE          | 67             | -1        | 8.3                  | 4.1       |
| SAN FRANCISCO       | 62             | 3         | T                    | -0.3      | ST CLOUD            | 55             | -1        | 2.0                  | -1.3      | SD ABERDEEN         | 54             | -3        | 1.1                  | -1.5      |
| CO DENVER           | 60             | 3         | 0.7                  | -1.8      | MS GREENWOOD        | 71             | -2        | 3.3                  | -1.5      | HURON               | 56             | -1        | 2.5                  | -0.2      |
| GRAND JUNCTION      | 66             | 4         | 0.5                  | -0.2      | JACKSON             | 71             | -2        | 5.6                  | 0.8       | RAPID CITY          | 54             | -2        | 1.5                  | -1.2      |
| PUEBLO              | 64             | 3         | 1.1                  | -0.4      | MERIDIAN            | 68             | -4        | 5.1                  | 0.9       | SIoux FALLS         | 56             | -3        | 2.9                  | -0.3      |
| CT BRIDGEPORT       | 58             | -1        | 8.3                  | 4.9       | MO COLUMBIA         | 61             | -3        | 3.5                  | -1.0      | TN CHATTANOOGA      | 64             | -4        | 6.6                  | 2.6       |
| HARTFORD            | 56             | -3        | 11.6                 | 7.8       | KANSAS CITY         | 60             | -5        | 2.3                  | -2.2      | KNOXVILLE           | 62             | -5        | 10.1                 | 6.4       |
| DC WASHINGTON       | 65             | -1        | 3.8                  | 0.3       | SAINT LOUIS         | 63             | -3        | 5.2                  | 1.6       | MEMPHIS             | 69             | -2        | 9.1                  | 4.0       |
| FL APALACHICOLA     | 73             | -2        | 0.3                  | -2.7      | SPRINGFIELD         | 63             | -2        | 2.1                  | -2.2      | NASHVILLE           | 64             | -4        | 9.7                  | 5.1       |
| DAYTONA BEACH       | 72             | -3        | 6.0                  | 2.6       | MT BILLINGS         | 56             | 1         | 1.1                  | -1.3      | TX ABILENE          | 75             | 2         | 0.4                  | -2.8      |
| FT. MYERS           | 79             | 1         | 2.8                  | -1.3      | GLASGOW             | 56             | 1         | 0.8                  | -1.0      | AMARILLO            | 67             | 1         | T                    | -2.8      |
| JACKSONVILLE        | 73             | -1        | 1.5                  | -3.5      | GREAT FALLS         | 52             | -2        | 1.2                  | -1.3      | AUSTIN              | 78             | 3         | 1.3                  | -2.9      |
| KEY WEST            | 81             | 0         | 5.8                  | 2.5       | HAYRE               | 53             | -2        | 0.9                  | -0.7      | BEAUMONT            | 75             | -1        | 10.4                 | 5.9       |
| MIAMI               | 77             | -2        | 10.9                 | 4.4       | HELENA              | 53             | 1         | 1.0                  | -0.7      | BROWNSVILLE         | 79             | 0         | 6.2                  | 4.0       |
| ORLANDO             | 75             | -1        | 3.2                  | -0.9      | KALISPELL           | 49             | -3        | 1.6                  | -0.3      | CORPUS CHRISTI      | 77             | -1        | 2.2                  | -0.9      |
| TALLAHASSEE         | 73             | 0         | 6.3                  | 1.1       | MILES CITY          | 56             | -2        | 0.9                  | -1.1      | DEL RIO             | 80             | 2         | 2.1                  | 0.1       |
| TAMPA               | 78             | 1         | 3.2                  | -0.2      | MISSOULA            | 49             | -3        | 2.1                  | 0.5       | EL PASO             | 75             | 3         | 0.5                  | 0.3       |
| WEST PALM BEACH     | 77             | -1        | 8.4                  | 2.4       | NE GRAND ISLAND     | 60             | -1        | 5.8                  | 2.0       | FORT WORTH          | 74             | 0         | 3.0                  | -1.3      |
| GA ATLANTA          | 67             | -2        | 6.6                  | 2.6       | LINCOLN             | 59             | -3        | 8.2                  | 4.4       | GALVESTON           | 76             | 0         | 5.1                  | 1.8       |
| AUGUSTA             | 70             | -1        | 7.6                  | 3.8       | NORFOLK             | 58             | -3        | 4.1                  | 0.4       | HOUSTON             | 75             | 0         | 3.1                  | -1.6      |
| MACON               | 71             | -2        | 6.4                  | 2.6       | NORTH PLATTE        | 58             | 0         | 2.8                  | -0.9      | LUBBOCK             | 71             | 2         | 0.5                  | -2.2      |
| SAVANNAH            | 73             | 0         | 5.3                  | 0.7       | OMAHA               | 59             | -3        | 4.0                  | -0.4      | MIDLAND             | 74             | 2         | 3.4                  | 1.3       |
| HI HILO             | 74             | 0         | 6.6                  | -2.8      | SCOTT'S BLUFF       | 59             | 2         | 1.2                  | -1.5      | SAN ANGELO          | 76             | 2         | 0.6                  | -1.9      |
| HONOLULU            | 79             | 1         | 0.2                  | -1.0      | NV VALENTINE        | 57             | 0         | 2.7                  | -0.2      | SAN ANTONIO         | 77             | 1         | 3.8                  | 0.1       |
| KAHULUI             | 78             | 2         | 0.5                  | -0.2      | ELY                 | 55             | 5         | 0.4                  | -0.7      | VICTORIA            | 76             | -1        | 4.0                  | -0.5      |
| LIHUE               | 78             | 2         | 0.5                  | -2.5      | ELKO                | 55             | 3         | 0.2                  | -0.8      | WACO                | 76             | 2         | 3.7                  | -1.0      |
| ID BOISE            | 55             | -2        | 1.1                  | -0.2      | LAS VEGAS           | 81             | 8         | 0.0                  | -0.2      | WICHITA FALLS       | 73             | 1         | 1.4                  | -2.9      |
| LEWISTON            | 55             | -2        | 1.7                  | 0.3       | RENO                | 59             | 4         | 0.1                  | -0.7      | UT BLANDING         | 63             | 6         | 0.1                  | -0.5      |
| POCATELLO           | 54             | 0         | 0.7                  | -0.5      | WINNEMUCCA          | 55             | 0         | 1.4                  | 0.6       | MILFORD             | 59             | 3         | 0.6                  | -0.1      |
| IL CAIRO            | 67             | -2        | 4.9                  | 0.0       | NH CONCORD          | 53             | -2        | 9.5                  | 6.6       | SALT LAKE CITY      | 62             | 3         | 1.3                  | -0.2      |
| CHICAGO             | 55             | -3        | 4.5                  | 1.3       | NJ ATLANTIC CITY    | 61             | 0         | 6.6                  | 3.5       | VT BURLINGTON       | 52             | -3        | 5.3                  | 2.3       |
| MOLINE              | 58             | -3        | 5.0                  | 0.8       | NM ALBUQUERQUE      | 70             | 6         | 0.2                  | -0.3      | VA NORFOLK          | 68             | 2         | 6.2                  | 2.5       |
| PEORIA              | 59             | -3        | 4.8                  | 1.0       | CLOVIS              | 67             | 1         | 4.1                  | 2.0       | RICHMOND            | 65             | -1        | 4.5                  | 1.0       |
| QUINCY              | 61             | -2        | 5.5                  | 1.1       | ROSWELL             | 73             | 2         | 2.0                  | 1.2       | ROANOKE             | 63             | -2        | 4.6                  | 1.1       |
| ROCKFORD            | 55             | -4        | 3.9                  | 0.2       | ALBANY              | 53             | -5        | 8.0                  | 4.6       | WA COLVILLE         | 51             | -4        | 2.8                  | 1.2       |
| SPRINGFIELD         | 60             | -4        | 6.3                  | 3.0       | BINGHAMTON          | 53             | -2        | 6.1                  | 2.9       | QUILLAYUTE          | 49             | -2        | 10.6                 | 5.9       |
| IN EVANSVILLE       | 62             | -5        | 2.9                  | -1.5      | BUFFALO             | 53             | -3        | 4.7                  | 1.8       | SEATTLE-TACOMA      | 53             | -2        | 3.5                  | 1.9       |
| FORT WAYNE          | 57             | -3        | 4.7                  | 1.2       | NEW YORK            | 61             | -1        | 9.3                  | 5.8       | SPOKANE             | 50             | -4        | 2.0                  | 0.6       |
| INDIANAPOLIS        | 59             | -4        | 4.4                  | 0.7       | ROCHESTER           | 52             | -5        | 5.4                  | 2.8       | YAKIMA              | 53             | -5        | 0.5                  | 0.0       |
| SOUTH BEND          | 56             | -3        | 4.0                  | 1.2       | SYRACUSE            | 52             | -5        | 5.0                  | 1.8       | WV BECKLEY          | 57             | -3        | 5.3                  | 1.4       |
| IA DES MOINES       | 59             | -3        | 5.6                  | 1.6       | NC ASHEVILLE        | 60             | -3        | 6.6                  | 2.4       | CHARLESTON          | 61             | -3        | 3.7                  | 0.0       |
| DUBUQUE             | 55             | -3        | 4.2                  | -0.2      | CHARLOTTE           | 66             | -2        | 4.8                  | 1.2       | HUNTINGTON          | 61             | -3        | 4.5                  | 0.5       |
| SIoux CITY          | 58             | -4        | 5.5                  | 2.0       | GREENSBORO          | 63             | -4        | 5.9                  | 2.5       | PARKERSBURG         | 60             | -3        | 3.7                  | -0.7      |
| WATERLOO            | 58             | -1        | 4.7                  | 0.5       | HATTERAS            | 68             | 0         | 7.3                  | 3.2       | WI GREEN BAY        | 52             | -3        | 1.7                  | -1.5      |
| KS CONCORDIA        | 62             | -2        | 4.0                  | 0.0       | NEW BERN            | 71             | 2         | 7.2                  | 2.8       | LACROSSE            | 56             | -4        | 2.2                  | -1.5      |
| DODGE CITY          | 64             | 0         | 1.4                  | -1.9      | RALEIGH             | 65             | -2        | 5.4                  | 1.7       | MADISON             | 53             | -4        | 3.3                  | 0.0       |
| GOODLAND            | 59             | -1        | 1.6                  | -1.4      | WILMINGTON          | 70             | -1        | 6.5                  | 2.2       | MILWAUKEE           | 55             | 0         | 4.2                  | 1.5       |
| TOPEKA              | 62             | -3        | 3.5                  | -0.6      | ND BISMARCK         | 52             | -3        | 0.3                  | -2.0      | WAUSAU              | 53             | -3        | 2.1                  | -1.7      |
| WICHITA             | 64             | -2        | 1.2                  | -2.8      | FARGO               | 54             | -2        | 0.6                  | -1.6      | WY CASPER           | 55             | 1         | 1.4                  | -0.8      |
| KY BOWLING GREEN    | 62             | -5        | 11.7                 | 7.5       | GRAND FORKS         | 54             | -1        | 0.8                  | -1.2      | CHEYENNE            | 53             | 2         | 0.8                  | -1.6      |
| LEXINGTON           | 61             | -3        | 5.4                  | 1.1       | WILLISTON           | 54             | 0         | 0.5                  | -1.4      | LANDER              | 56             | 3         | 0.3                  | -2.4      |
| LOUISVILLE          | 62             | -2        | 6.8                  | 2.6       | OH AKRON-CANTON     | 55             | -5        | 5.4                  | 1.9       | SHERIDAN            | 53             | 0         | 1.6                  | -0.8      |
| LA ALEXANDRIA       | 73             | -2        | 4.5                  | -1.6      | CINCINNATI          | 59             | -5        | 4.8                  | 0.9       | PR SAN JUAN         | 81             | 1         | 3.7                  | -1.9      |

Based on 1951-80 normals.

Heating Degree Days (Base 65° F.)

May 1984

|                              |      |                               |     |                             |     |
|------------------------------|------|-------------------------------|-----|-----------------------------|-----|
| ALA. Birmingham . . . . .    | 47   | MAINE, Caribou . . . . .      | 493 | OKLA. Okla. City . . . . .  | 45  |
| Mobile . . . . .             | 10   | Portland . . . . .            | 368 | Tulsa . . . . .             | 47  |
| Montgomery . . . . .         | 20   | MD. Baltimore . . . . .       | 169 | OREG. Astoria . . . . .     | 433 |
| ALASKA, Anchorage . . . . .  | 471  | MASS. Boston . . . . .        | 240 | Burns . . . . .             | 459 |
| Barrow . . . . .             | 1498 | Chatham . . . . .             | 320 | Medford . . . . .           | 219 |
| Fairbanks . . . . .          | 549  | MICH. Alpena . . . . .        | 505 | Pendleton . . . . .         | 316 |
| Nome . . . . .               | 1043 | Detroit . . . . .             | 334 | Portland . . . . .          | 270 |
| ARIZ. Flagstaff . . . . .    | 247  | Flint . . . . .               | 411 | Salem . . . . .             | 367 |
| Phoenix . . . . .            | 0    | Grand Rapids . . . . .        | 353 | PA. Allentown . . . . .     | 211 |
| Tucson . . . . .             | 0    | Houghton Lake . . . . .       | 458 | Erie . . . . .              | 360 |
| Winslow . . . . .            | 31   | Lansing . . . . .             | 387 | Harrisburg . . . . .        | 240 |
| Yuma . . . . .               | 0    | Marquette . . . . .           | 517 | Philadelphia . . . . .      | 181 |
| ARK. Fort Smith . . . . .    | 32   | S. Ste. Marie . . . . .       | 535 | Pittsburgh . . . . .        | 305 |
| Little Rock . . . . .        | 24   | MINN. Duluth . . . . .        | 446 | Scranton . . . . .          | 247 |
| CALIF. Bakersfield . . . . . | 31   | Internatl Falls . . . . .     | 494 | R.I. Providence . . . . .   | 236 |
| Eureka . . . . .             | 303  | Minneapolis . . . . .         | 284 | S.C. Charleston . . . . .   | 11  |
| Fresno . . . . .             | 6    | Rochester . . . . .           | 381 | Columbia . . . . .          | 31  |
| Los Angeles . . . . .        | 22   | St. Cloud . . . . .           | 325 | Greenville . . . . .        | 67  |
| Red Bluff . . . . .          | 29   | MISS. Jackson . . . . .       | 29  | S. DAK. Aberdeen . . . . .  | 332 |
| Stockton . . . . .           | 20   | Meridian . . . . .            | 42  | Huron . . . . .             | 294 |
| San Diego . . . . .          | 4    | MO. Columbia . . . . .        | 155 | Rapid City . . . . .        | 366 |
| San Francisco . . . . .      | 124  | Kansas City . . . . .         | 175 | Sioux Falls . . . . .       | 285 |
| COLO. Denver . . . . .       | 183  | St. Louis . . . . .           | 115 | TENN. Chattanooga . . . . . | 100 |
| Grand Junction . . . . .     | 89   | Springfield . . . . .         | 133 | Knoxville . . . . .         | 139 |
| Pueblo . . . . .             | 120  | MONT. Billings . . . . .      | 316 | Memphis . . . . .           | 24  |
| CONN. Bridgeport . . . . .   | 227  | Glasgow . . . . .             | 318 | Nashville . . . . .         | 106 |
| Hartford . . . . .           | 286  | Great Falls . . . . .         | 419 | TEX. Abilene . . . . .      | 12  |
| D.C. Washington . . . . .    | 95   | Havre . . . . .               | 379 | Amarillo . . . . .          | 56  |
| FLA. Apalachicola . . . . .  | 2    | Helena . . . . .              | 380 | Austin . . . . .            | 0   |
| Ft. Myers . . . . .          | 0    | Kalispell . . . . .           | 501 | Beaumont . . . . .          | 1   |
| Jacksonville . . . . .       | 9    | Miles City . . . . .          | 297 | Brownsville . . . . .       | 0   |
| Key West . . . . .           | 0    | Missoula . . . . .            | 479 | Corpus Christi . . . . .    | 0   |
| Miami . . . . .              | 0    | NEBR. Grand Island . . . . .  | 177 | Del Rio . . . . .           | 0   |
| Orlando . . . . .            | 0    | Lincoln . . . . .             | 196 | El Paso . . . . .           | 8   |
| W. Palm Beach . . . . .      | 0    | Norfolk . . . . .             | 220 | Fort Worth . . . . .        | 11  |
| Tallahassee . . . . .        | 3    | North Platte . . . . .        | 233 | Galveston . . . . .         | 0   |
| Tampa . . . . .              | 0    | Omaha . . . . .               | 212 | Houston . . . . .           | 2   |
| GA. Atlanta . . . . .        | 50   | Valentine . . . . .           | 286 | Lubbock . . . . .           | 20  |
| Augusta . . . . .            | 31   | NEV. Ely . . . . .            | 318 | Midland . . . . .           | 7   |
| Macon . . . . .              | 18   | Las Vegas . . . . .           | 0   | San Angelo . . . . .        | 5   |
| Savannah . . . . .           | 7    | Reno . . . . .                | 183 | San Antonio . . . . .       | 2   |
| IDAHO, Boise . . . . .       | 328  | Winnemucca . . . . .          | 307 | Victoria . . . . .          | 0   |
| Lewiston . . . . .           | 282  | N.H. Concord . . . . .        | 382 | Waco . . . . .              | 6   |
| Pocatello . . . . .          | 333  | N.J. Atlantic City . . . . .  | 171 | Wichita Falls . . . . .     | 17  |
| ILL. Cairo . . . . .         | 47   | N. MEX. Albuquerque . . . . . | 22  | UTAH, Milford . . . . .     | 180 |
| Chicago . . . . .            | 300  | N.Y. Albany . . . . .         | 363 | Salt Lake City . . . . .    | 157 |
| Moline . . . . .             | 225  | Binghamton . . . . .          | 373 | VT. Burlington . . . . .    | 395 |
| Peoria . . . . .             | 206  | Buffalo . . . . .             | 385 | VA. Lynchburg . . . . .     | 111 |
| Rockford . . . . .           | 302  | New York . . . . .            | 147 | Norfolk . . . . .           | 54  |
| Springfield . . . . .        | 170  | Rochester . . . . .           | 395 | Richmond . . . . .          | 93  |
| IND. Evansville . . . . .    | 131  | Syracuse . . . . .            | 385 | Roanoke . . . . .           | 123 |
| Fort Wayne . . . . .         | 272  | N.C. Asheville . . . . .      | 176 | WASH. Colville . . . . .    | -   |
| Indianapolis . . . . .       | 211  | Charlotte . . . . .           | 74  | Quillayute . . . . .        | 478 |
| South Bend . . . . .         | 290  | Greensboro . . . . .          | 107 | Seattle-Tacoma . . . . .    | 372 |
| IOWA, Des Moines . . . . .   | 217  | Hatteras . . . . .            | 47  | Spokane . . . . .           | 460 |
| Dubuque . . . . .            | 307  | Raleigh . . . . .             | 83  | Walla Walla . . . . .       | 240 |
| Souix City . . . . .         | 235  | Wilmington . . . . .          | 37  | Yakima . . . . .            | 384 |
| KANS. Concordia . . . . .    | 146  | N. DAK. Bismarck . . . . .    | 421 | W. VA. Beckley . . . . .    | 266 |
| Dodge City . . . . .         | 96   | Fargo . . . . .               | 344 | Charleston . . . . .        | 171 |
| Goodland . . . . .           | 208  | Williston . . . . .           | 343 | Huntington . . . . .        | 171 |
| Topeka . . . . .             | 137  | OHIO. Akron-Canton . . . . .  | 323 | WIS. Green Bay . . . . .    | 406 |
| Wichita . . . . .            | 95   | Cincinnati . . . . .          | 219 | Madison . . . . .           | 358 |
| KY. Lexington . . . . .      | 178  | Cleveland . . . . .           | 347 | Milwaukee . . . . .         | 318 |
| Louisville . . . . .         | 141  | Columbus . . . . .            | 254 | WYO. Casper . . . . .       | 332 |
| LA. Baton Rouge . . . . .    | 5    | Dayton . . . . .              | 263 | Cheyenne . . . . .          | 343 |
| Lake Charles . . . . .       | 1    | Toledo . . . . .              | 341 | Lander . . . . .            | 290 |
| New Orleans . . . . .        | 2    | Youngstown . . . . .          | 323 | Sheridan . . . . .          | 380 |
| Shreveport . . . . .         | 11   |                               |     |                             |     |

Based on 1951-80 normals.

## National Agricultural Summary

May 28 to June 3

**HIGHLIGHTS:** Torrential rains halted fieldwork early in the week from the Southeast through New England, while widespread showers slowed planting across eastern portions of the Plains into the western Corn Belt. However, farmers maintained rapid planting averages nationally. Cooler than normal temperatures slowed emergence and development of crops from the Rocky Mountains eastward. Hot, dry weather generally persisted generally from California to central Texas, severely stressing ranges and dryland crops. Elsewhere, soil moisture was mostly adequate to surplus, except in eastern Montana where supplies were short. Farmers had 3 to 6 days suitable for fieldwork, except from Michigan to New England where generally less than 3 days were available.

Winter wheat was in fair to good condition; 68% of the acreage was headed. Spring wheat seeding was 99% finished; plants had emerged on 89% of the acreage. Corn planting advanced to 90% completion, 1 point behind average. Progress was still slower than normal in Illinois, Kansas, Missouri, Ohio, Pennsylvania, South Dakota, and Virginia. Soybean planting was 51% finished, trailing the 60% average. Sorghum planting advanced to 53%, compared with an average of 50%. Cotton was 80% planted, 4 points ahead of last year's progress. Rice seeding was 95% complete. Peanut planting was virtually complete, except in Texas. Peach harvesting was active in the Southeast. Pastures and livestock were in mostly good condition.

**SMALL GRAINS:** Winter wheat continued in fair to good condition; development lagged normal by more than 1 week across the Great Plains. In the 15 major producing States, 68% of the acreage was headed, 10 points behind the average. Heading ranged from 1% completion in Montana to 100% completion in California. Harvesting lagged normal across most of the South but was gaining momentum. Texas producers had combined 26% of their acreage, well ahead of the 7% average because hot, dry weather advanced maturity.

Spring wheat seeding in the five major producing States advanced to 99% completion, 4 points ahead of the average. Plants had emerged on 89% of the intended acreage. The crop continued in fair to good condition despite soil moisture shortages in some areas.

**CORN:** Corn planting in the 17 major producing States advanced to 90% completion, 3 points ahead of a year earlier but 1 point behind the average. Growers made good progress despite scattered showers that slowed planting in some areas. Georgia and North Carolina producers finished planting, while growers in Colorado and Iowa were 96% finished. However, in the following States planting lagged the average by the indicated percentage points: Pennsylvania, 26; Illinois, 6; Kansas, Missouri, Ohio, and South Dakota, 5; and Virginia, 1. Emerged plants were in fair to mostly good condition. The crop was 18% silked in Georgia, compared with the 30% average.

**SOYBEANS:** In the 18 major producing States, 51% of the soybean acreage had been planted, equal to last year's progress but 9 points behind normal. Planting advanced rapidly in the western Corn Belt. Growers in Iowa planted 29% of the crop during the week, while Minnesota and Nebraska producers seeded 27% and 25%, respectively. Planting progress trailed the average in all States except Arkansas, Kansas, Louisiana, Minnesota, and Mississippi. Emerged plants were in mostly fair condition.

**SORGHUM:** Sorghum planting was 53% finished in the seven major producing States, ahead of last year's 43% and the 50% average. Progress was 20 percentage points behind in Nebraska and 18 points behind in South Dakota. In contrast, Texas producers were 15 points ahead of normal. Ten percent of the crop was turning color in southern Texas, compared with the 7% average.

**COTTON:** Cotton planting in the 14 major producing States advanced to 80% completion, ahead of last year's 76% but behind the 84% average. Planting was complete in Arizona, California, Mississippi, Missouri, North Carolina, and South Carolina. Arkansas and Tennessee producers were nearly finished. Plants were in fair to good condition. Eight percent of the crop was squaring, equaling the average for this date. Progress ranged from 1% in Mississippi to 35% in Arizona. Planting was active across the Texas Plains into the Cross Timbers area.

**OTHER CROPS:** Rice seeding in the five major producing States was 95% complete, compared with the 94% average. Progress was ahead of schedule in all States, except Arkansas which was slightly behind normal. Rice had emerged on 86% of the acreage, equaling the average for this date. Stands were in fair to good condition.

Peanut planting was virtually complete in the Southeast. Blooming of early planted fields ranged up to 11% in Georgia; the crop started pegging in some areas.

Hay harvesting and tobacco transplanting continued to lag normal as scattered showers frequently delayed progress.

**FRUITS AND NUTS:** Northern apple orchards passed peak bloom while peach picking gained momentum in the Southeast.

Torrential rains in Florida provided adequate soil moisture for citrus groves. Most trees showed much new growth. The Valencia orange harvest slowed while grapefruit movement neared completion.

Texas peaches were small because of dry condition. The pecan crop was rated fair. Arizona producers harvested grapefruit on a limited scale.

California producers harvested good quality apricots, avocados, Bing cherries, table grapes, Freestone peaches, plums, summer grapefruit, and Valencia oranges.

**VEGETABLES:** Cool, wet weather stalled development of vegetable crops in the northern producing areas. Torrential rains and floods caused some replanting in the Northeast.

Florida's vegetable shipments declined 2% from the previous week. Only watermelon shipments gained in volume.

California producers actively harvested a wide variety of vegetables. Lettuce harvesting was heavy. Market onion harvesting declined in the Imperial Valley but increased in the San Joaquin Valley.

Melon harvesting gained momentum in Texas. Showers caused some slight harvesting delays.

**PASTURES AND LIVESTOCK:** Pastures and ranges were in mostly good condition, except from California into central Texas where dry conditions left ranges in poor condition. Continued showers and generally mild weather stimulated growth of grasses in most regions. Livestock movement to summer ranges continued. Herds were in mostly good condition.

**CROP PROGRESS**

FOR WEEK ENDING JUNE 3

| SOYBEANS<br>% PLANTED |      |      |      |
|-----------------------|------|------|------|
|                       | 1984 | 1983 | AVG. |
| ALA                   | 39   | 43   | 62   |
| ARK                   | 39   | 28   | 29   |
| GA                    | 48   | 53   | 63   |
| ILL                   | 53   | 61   | 73   |
| IND                   | 45   | 50   | 60   |
| IOWA                  | 71   | 79   | 76   |
| KANS                  | 35   | 20   | 30   |
| KY                    | 25   | 8    | 35   |
| LA                    | 65   | 35   | 56   |
| MICH                  | 40   | 25   | 76   |
| MINN                  | 86   | 72   | 78   |
| MISS                  | 54   | 50   | 46   |
| MO                    | 29   | 33   | 47   |
| NEBR                  | 40   | 75   | 60   |
| N C                   | 49   | 61   | 59   |
| OHIO                  | 40   | 40   | 65   |
| S C                   | 41   | 48   | 59   |
| TENN                  | 32   | 13   | 43   |
| 18 STATES             | 51   | 51   | 60   |

THESE 18 STATES PRODUCED 93% OF THE 1983 SOYBEAN CROP.

| WINTER WHEAT<br>% HEADED |      |      |      |
|--------------------------|------|------|------|
|                          | 1984 | 1983 | AVG. |
| CALIF                    | 100  | 100  | 100  |
| COLO                     | 23   | 26   | 49   |
| IDAHO                    | 4    | 5    | 12   |
| ILL                      | 78   | 86   | 93   |
| IND                      | 50   | 65   | 85   |
| KANS                     | 90   | 80   | 95   |
| MO                       | 82   | 81   | 78   |
| MONT                     | 1    | 0    | 0    |
| NEBR                     | 25   | 35   | 65   |
| OHIO                     | 40   | 45   | 60   |
| OKLA                     | 99   | 98   | 99   |
| OREG                     | 56   | 78   | 67   |
| S DAK                    | 15   | 17   | 41   |
| TEX                      | 97   | 97   | 98   |
| WASH                     | 22   | 82   | 55   |
| 15 STATES                | 68   | 71   | 78   |

THESE 15 STATES PRODUCED 84% OF THE 1983 WINTER WHEAT CROP.

| CORN<br>% PLANTED |      |      |      |
|-------------------|------|------|------|
|                   | 1984 | 1983 | AVG. |
| COLO              | 96   | 93   | 92   |
| GA                | 100  | 100  | 100  |
| ILL               | 89   | 89   | 95   |
| IND               | 90   | 80   | 85   |
| IOWA              | 96   | 97   | 95   |
| KANS              | 85   | 90   | 90   |
| KY                | 86   | 56   | 85   |
| MICH              | 90   | 75   | 89   |
| MINN              | 95   | 91   | 93   |
| MO                | 82   | 86   | 87   |
| NEBR              | 92   | 97   | 90   |
| N C               | 100  | 100  | 100  |
| OHIO              | 80   | 75   | 85   |
| PA                | 58   | 73   | 84   |
| S DAK             | 83   | 85   | 88   |
| VA                | 92   | 92   | 93   |
| WIS               | 90   | 72   | 89   |
| 17 STATES         | 90   | 87   | 91   |

THESE 17 STATES PRODUCED 90% OF THE 1983 CORN CROP.

| SPRING WHEAT<br>% PLANTED |      |      |      |
|---------------------------|------|------|------|
|                           | 1984 | 1983 | AVG. |
| IDAHO                     | 99   | 100  | 100  |
| MINN                      | 99   | 98   | 95   |
| MONT                      | 100  | 100  | 95   |
| N D                       | 99   | 98   | 92   |
| S DAK                     | 100  | 100  | 100  |
| 5 STATES                  | 99   | 99   | 95   |

THESE 5 STATES PRODUCED 94% OF THE 1983 SPRING WHEAT CROP.

| SPRING WHEAT<br>% EMERGED |      |      |      |
|---------------------------|------|------|------|
|                           | 1984 | 1983 | AVG. |
| IDAHO                     | 86   | 100  | 99   |
| MINN                      | 97   | 87   | 85   |
| MONT                      | 90   | 90   | 75   |
| N D                       | 84   | 77   | 68   |
| S DAK                     | 96   | 96   | 99   |
| 5 STATES                  | 89   | 85   | 78   |

THESE 5 STATES PRODUCED 94% OF THE 1983 SPRING WHEAT CROP.

| RICE<br>% PLANTED |      |      |      |
|-------------------|------|------|------|
|                   | 1984 | 1983 | AVG. |
| ARK               | 91   | 89   | 92   |
| CALIF             | 95   | 80   | 94   |
| LA                | 98   | 88   | 96   |
| MISS              | 100  | 90   | 96   |
| TEX               | 100  | 100  | 99   |
| 5 STATES          | 95   | 89   | 94   |

THESE 5 STATES PRODUCED 98% OF THE 1983 RICE CROP.

| RICE<br>% EMERGED |      |      |      |
|-------------------|------|------|------|
|                   | 1984 | 1983 | AVG. |
| ARK               | 81   | 70   | 85   |
| CALIF             | 80   | 45   | 71   |
| LA                | 95   | 85   | 94   |
| MISS              | 80   | 73   | 83   |
| TEX               | 100  | 100  | 97   |
| 5 STATES          | 86   | 74   | 86   |

THESE 5 STATES PRODUCED 98% OF THE 1983 RICE CROP.

| COTTON<br>% PLANTED |      |      |      |
|---------------------|------|------|------|
|                     | 1984 | 1983 | AVG. |
| ALA                 | 98   | 99   | 99   |
| ARIZ                | 100  | 100  | 99   |
| ARK                 | 99   | 100  | 99   |
| CALIF               | 100  | 100  | 100  |
| GA                  | 96   | 96   | 96   |
| LA                  | 98   | 84   | 94   |
| MISS                | 100  | 96   | 100  |
| MO                  | 100  | 90   | 100  |
| N MEX               | 98   | 81   | 94   |
| N C                 | 100  | 96   | 100  |
| OKLA                | 40   | 30   | 40   |
| S C                 | 100  | 100  | 100  |
| TENN                | 99   | 87   | 99   |
| TEX                 | 65   | 62   | 74   |
| 14 STATES           | 80   | 76   | 84   |

THESE 14 STATES PRODUCED 99% OF THE 1983 COTTON CROP.

| SORGHUM<br>% PLANTED |      |      |      |
|----------------------|------|------|------|
|                      | 1984 | 1983 | AVG. |
| COLO                 | 40   | 45   | 41   |
| KANS                 | 30   | 15   | 30   |
| MO                   | 62   | 44   | 52   |
| NEBR                 | 40   | 60   | 60   |
| OKLA                 | 55   | 30   | 50   |
| S DAK                | 30   | 44   | 48   |
| TEX                  | 81   | 66   | 66   |
| 7 STATES             | 53   | 43   | 50   |

THESE 7 STATES PRODUCED 85% OF THE 1983 SORGHUM CROP.

| COTTON<br>% SQUARING |      |      |      |
|----------------------|------|------|------|
|                      | 1984 | 1983 | AVG. |
| ALA                  | 0    | 0    | 0    |
| ARIZ                 | 35   | 30   | 32   |
| ARK                  | 0    | 0    | 0    |
| CALIF                | 10   | 0    | 2    |
| GA                   | 4    | 8    | 27   |
| LA                   | 0    | 0    | 0    |
| MISS                 | 1    | 0    | 4    |
| MO                   | 0    | 0    | 0    |
| N MEX                | 0    | 0    | 0    |
| N C                  | 0    | 0    | 0    |
| OKLA                 | 0    | 0    | 0    |
| S C                  | 0    | 4    | 0    |
| TENN                 | 0    | 0    | 0    |
| TEX                  | 10   | 6    | 12   |
| 14 STATES            | 8    | 4    | 8    |

THESE 14 STATES PRODUCED 99% OF THE 1983 COTTON 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 Statistical Offices in cooperation with the National Weather Service.

**ALABAMA:** Rainfall less than 1.00 in. most stations. Temperatures 10° below normal.

Soil moisture very short to short extreme south, adequate to surplus extreme north, adequate extreme north, adequate over remainder. Fieldwork: 4.5 days. Corn silked 10%, 3% 1983. Soybeans planted 39%, 43% 1983, 62% average. Peanuts planted virtually complete. Sorghum planted 56%, 52% 1983, 52% average. Wheat turning color 94%, 79% 1983. Wheat harvested 15%. Hay first cutting 42%. Activities: Routine care of livestock and poultry; planting corn, cotton, soybeans, peanuts, and sorghum; cultivation of corn and cotton; and harvest of wheat, hay, fruit and vegetables. Conditions: Cotton mostly fair; soybeans, peanuts and sorghum fair to good; corn, wheat, pasture and livestock mostly good.

**ALASKA:** Cool, damp weather across northern section kept temperatures cooler than normal. Precipitation less than 0.33 in. Seasonal totals remaining drier than normal. Sunny, warm weather across southern areas after wet start. Temperatures warmer than normal during the day, cooler than normal at night.

**ARIZONA:** Increased moisture over State 29th through 31st produced scattered showers, thunderstorms chiefly over eastern two-thirds. Some lingering activity over White Mountains, southeast 1st and 2nd. Amounts mostly under 0.33 in. Gila Bend drenched night of 30th with 1.85 ins. in two-hours. Late on 2nd heavy rain, hail soaked Douglas with 1.85 in. Drier, cooler air spread over much of State 1st and 2nd, lowered maximum temperatures 5 to 19°. Temperatures ranged 115° in lower deserts beginning of the week to minimums in middle 30's in higher elevations by weekend. Average temperatures 5 to 12° above seasonal normals.

Record setting hot weather coupled with gusting winds, dried ranges, pastures. Lack of soil moisture rendered range feed supplies bellow average except in higher elevations in east. Extremely dry presented fire hazards to parts of midelevation, desert areas. Stock water supplies low. Cattle, sheep fair to good. Current range conditions, feed costs pressured operators to cull herds. Light insect damage reported Navajo, Graham, Greenlee Counties. Cotton above average in west, mostly average in central, southeast. Planting 100% complete, 100% a year ago, average of 99%. Cotton 35% squaring, 30% last year, average 32%. Growers irrigating, using weed, insect control measures as needed. Barley harvest winding down Maricopa County, just beginning southeast. Combining full swing west, Central Valley. Wheat harvest full swing Yuma, La Paz Counties, increasing Central Valley. Combining 40% complete Maricopa County, 35% Yuma. Alfalfa harvest neared peak in southeast, continued full swing central, west. Head lettuce harvest winding down Willcox, some leaf, romaine lettuce harvested. Carrots, dry onions, potato harvests full swing Salt River Valley. Some green onions harvested. Grapefruit harvested limited scale, some shipments. Cantaloup, watermelons satisfactory progress. Citrus groves good condition, new crop fruit developing, sizing normally. Grape harvest expected to start June 8.

**ARKANSAS:** Cool with light showers early in the week. Temperatures 6 to 11° below normal. High

92°, low 34°. Most rainfall 2.09 in., least 0.09 in.

Soil moisture adequate. Days favorable 5.2. Crop growth moderate. Rice condition good to fair; seeded 91%, 89% 1983, 92% average; emerged 81%, 70% 1983, 85% average. Cotton condition good; planted 99%, 100% 1983, 99% average; emerged 87%, 87% 1983, 95% average. Soybeans good condition; planted 39%, 28% 1983, 29% average; emerged 29%, 15% 1983, 25% average. Winter wheat good condition; harvest just starting 1984 and 1983, 6% average. Corn good; planted 91%, 96% 1983, 86% average. Sorghum good to fair; planted 92%, 79% 1983, 81% average. Pastures average. Cattle good condition.

**CALIFORNIA:** Hot. Weekly mean temperatures were above the seasonal normals at heat wave proportions. All divisions reported maxima above 100° except the Cascade-Sierra. Even there, high temperatures were 90° plus. The San Joaquin Valley showed the greatest departure, 12 warmer than normal. The Sacramento Valley and the desert southeast were 10° warmer than normal. With all the heat, the northeast corner near the Oregon border reported freezing temperatures a couple of mornings late in the week.

Good growth small grains, north. Barley harvested San Joaquin, some fields burned. Irrigated wheat harvested; good yields. Sugarbeets mildew treated, irrigated. Weed control rice fields, some replanting from winds received. Rice: 95% planted, 80% last year, 94% average. Emerged: 80% this year, 45% last year, 71% average. Field corn irrigated. Lima beans mostly planted. Good cotton growth; irrigated, cultivated, mite treated. Cotton: 100% planted, 100% last year, 100% average. Squared: 10% this year, 0% last year, 2% average. Alfalfa cutting peaked, Sacramento Valley; some irrigation. Apricot, avocado, Bing cherry, Coachella Valley table grape, Freestone peach, plum, summer grapefruit, Valencia orange harvests active; quality good. Routine cultural practices active in grape vineyards. Clingstone peach thinning, almond spraying active. Artichoke supplies fairly light. Broccoli, cauliflower harvests fairly heavy. Bushberry harvest underway. Cantaloup yields low Imperial Valley. Carrot harvest active Palo Verde Valley, decreasing Imperial Valley, increasing San Joaquin Valley. Celery harvest active south coast, increasing Santa Maria, started Salinas-Watsonville. Lettuce harvest heavy, some abandoned. Market onion harvest decreasing Imperial Valley, increasing San Joaquin Valley. Spring potato harvest very active. Planting fall potatoes near completion. Market tomato harvest active desert, increasing south coast, started San Joaquin Valley. Processing tomato harvest continued desert. Warmer weather improved summer grazing conditions. Foothill grass extremely dry. Several range fires occurred, result dry conditions. Grasshoppers becoming problem foothill areas. Movement livestock higher elevations continues.

**COLORADO:** Rain showers and thunderstorms were common across the State with a few severe thunderstorms on the weekend. Rainfall amounts were up to 1.00 in., but State average was 0.10 to 0.20 in. Temperatures were near normal.

Crops responding to warmer and drier weather. Conditions good for all crops with the southeast

needing additional moisture. Winter wheat late, 80% jointed, 23% headed; 1983, 90% jointed and 26% headed; averages 90% jointed and 49% headed. Corn 96% planted compared with 93% last year and 92% average. Sorghum planting advanced to 40% complete; 45% last year, average 41%. Spring grains nearly all seeded. Dry beans 23% planted; 30% 1983; 28% average. Sugarbeets being thinned, 15% complete. First cutting of alfalfa underway. Summer and fall potato planting nearing completion later than normal. Range forage improving with warmer temperatures.

**FLORIDA:** Torrential rains poured over lower east coast, 28th through morning of 29th; by evening a cold front was working southward followed by much cool and dry air pushing off southeast coast early morning of 31st. Once the rains stopped, record low temperatures set in over most of State with mid-to-upper 40's north; low to mid 50's central; low-to-mid 60's, south.

Soil moisture mostly adequate except south where a surplus existed in some areas following heavy rains ending early week. A few dry spots present along west central Gulf Coast. Corn good condition. Tobacco mostly good condition; cool nights causing premature flowering in late planted fields. Peanuts mostly planted, crop good progress. Soybeans planting very active after rains. Wheat harvest delayed by rain. Sugarcane good condition. Early week rains continuing from previous week very beneficial to pastures. Grazing mostly good, Panhandle, northern Peninsula, good to excellent elsewhere except several dry areas, primarily central west coast. Condition cattle, calves improved in many Panhandle, upper Peninsula areas, generally rated good statewide. Moisture adequate for citrus with some groves too wet. Much new growth on green trees; major pruning continues on frozen trees. Valencia harvest slowing. Grapefruit movement almost over. Locally heavy rains fell early week, southeast vegetable area. Rainfall measured up to 12.50 in. Pompano area. Other areas received less. The heavy rains ended harvest season slightly early for some growers. The front lowered nighttime temperatures to upper 40's north areas; 50's central. Overall vegetable shipments declined 2% from previous week. Crops declining were snap beans, cabbage, celery, Chinese cabbage, sweet corn, cucumbers, radishes, squash, strawberries. Supplies of carrots, green peppers, potatoes, tomatoes remained steady. Watermelon shipments gained. Harvest underway northern area.

**GEORGIA:** Thundershowers on 28th and 29th. Mostly less than 1.00 in. north with 1.00 to 3.00 in. amounts elsewhere. Highs in 80's with lows in 60's. Remainder of week dry. The 30th was breezy and cool. Record lows over much of State on 31st with lows mostly in 40's except near 50 in extreme south. Freezing temperatures occurred in mountains. This was latest date for spring freeze since 1961. Temperatures warmed to near 90 by weekend with lows in 60's.

Soil moisture 29% surplus, 67% adequate, 4% short. Average days suitable for fieldwork: 3.6. Main activities: Haying, planting, spraying for weeds and insect control. Corn 18% silked, 8% last year, average 30%; dough 2%, 7% average; condition 12% excellent, 66% good, 21% fair. Cotton 96% planted this year, last year and average: 4% squaring, 8% last year, average 27%; condition 45% good and 50% fair. Grain sorghum 58% planted, 53% last year, average 55%; condition 66% good and 29% fair. Peanuts 98% planted, 99% last year, average 100%; 11% blooming, 10% last year, average 24%, 2% pegging, average 3%; condition 10% excellent, 63% good, 23% fair. Weed and insect control

active in peanuts. Tobacco condition 10% excellent, 51% good and 37% fair. Soybeans 48% planted, 53% last year, average 63%; condition 7% excellent, 63% good, 28% fair. Watermelons 99% planted, 100% last year and average; condition 6% excellent, 65% good, 28% fair. Wheat 24% harvested, 20% last year, average 40%; condition 57% good and 38% fair. Other small grains 4% excellent, 50% good, 39% fair, 5% poor. Rye 57% good and 38% fair. Peaches 12% picked, 10% last year, average 16%; condition 9% excellent, 68% good, 21% fair. Apples 5% excellent, 68% good, 26% fair. Pastures 10% excellent, 74% good, 14% fair. Cattle 6%, 73% good, 18% fair. Hogs 5% excellent, 80% good, 13% fair.

**HAWAII:** A favorable mix of sunshine and showers promoted good crop development. Clear skies provided abundant sunshine in most areas, but also allowed temperatures to reach record high levels. Showers were light and mainly restricted to the interior sections. A few showers drifted over coastal regions.

Gusty winds gave some relief from the heat, but they also served to dry fields further. Irrigation was heavy in the major growing areas. Spraying for insect and disease control was also heavy. Head cabbage production heavy and of good quality. Head lettuce supplies steady. Chinese cabbage production moderate, and new plantings reportedly down. Banana output continues its seasonal lull. Papaya harvesting steady.

**IDAHO:** A cold front moved through the State during the middle of the week causing temperatures to average below normal in most areas. Temperatures averaged between 1 and 40 below normal in the north and southwest and near normal in the east. Moscow was the exception, averaging 70 above normal. Precipitation ranged from 0.25 in. below normal to 0.10 in. above normal.

Plantings progress as 5.9 days were suitable for fieldwork. Spring wheat seeded advanced to 99% versus 100% in 1983 and the average. Spring wheat emergence reached 86% compared to 100% last year and 98% average. Spring barley rose to 95% seeded with 76% of the acreage emerged. Potato planting climbed to 90% versus 93% in 1983 and the 86% average. Potato emergence reached 23% compared to 25% last year and the 36% average. Corn planting advanced to 93% versus 97% in 1983 and 95% average. Winter wheat development continued to be slower than last year with 4% of the acreage headed compared to 5% in 1983 and 12% average.

**ILLINOIS:** Temperatures 2 to 60 below normal. Precipitation 0 to 0.62 in.

Soil moisture 51% adequate, 46% surplus, 3% short. Days suitable for fieldwork: 3.0. Corn planted 89%, last year 89%, average 95% average. Height of all corn 4 in., last year 3 in., average 5 in. average. Height of most advanced fields 7 in., last year 6 in., average 11 in. Corn condition 2% excellent, 45% good, 47% fair, 6% poor. Soybeans planted 53%, last year 61%, average 73%. Wheat condition 8% excellent, 53% good, 30% fair, 9% poor. Winter wheat 78% headed, last year 86%, average 93%; 23% filled, last year 31%, average 54%. Oats headed 7%, last year 9%, average 22%. Oat condition 6% excellent, 75% good, 17% fair, 2% poor. Sorghum grain planted 35%, last year 19%, average 44%. Alfalfa condition 22% excellent, 72% good, 6% fair; first crop cut 31%, last year 25%, average 38%. Red clover condition 22% excellent, 70% good, 8% fair; crop cut 22%, last year 10%, average 25%. Pasture condition 28% excellent, 67% good, 5% fair.

**INDIANA:** Temperatures averaged 3 to 5° below normal. Minimum temperatures in upper 30's and lower 40's. Maximums in 80's. Soil temperatures at the four inch depth dipped to minimums in the upper 40's under the cool air but rose to the upper 70's and lower 80's over the weekend. Average values were mostly in the lower 60's. Precipitation below normal. Totals 0.25 to 0.50 in. Southernmost little or no rain. Normal nearly 1.00 in.

Fieldwork averaged 2.2 days. Topsoil and subsoil moisture mostly adequate to surplus. Spring cropland 94% tilled, 1983 96%. Corn 90% planted, 1982 80%, average 85%. Corn 80% emerged, 1983 60%, average 70%. Soybeans 45% planted, 1983 50%, average 60%. Soybeans 40% emerged, 1983 15%, average 45%. Wheat condition fair to good. Wheat 50% headed, 1983 65%, average 85%. Wheat 23 in. tall, 1983 25 in. Alfalfa 25% cut first time, 1983 25%, average 30%. Clover hay 20% cut, 1983 20%, average 15%. Pastures mostly good. Tobacco 10% set, 1983 15%, average 20%.

**IOWA:** Cool, dry week temperatures below normal.

Days suitable for fieldwork: 3.3. Corn acreage planted 96% complete; 97% last year; 95% normal. Corn acreage emerged 83% complete; 76% last year; 83% normal. Corn crop condition 11% excellent, 58% good, 23% fair, 8% poor to very poor. Slow growing and yellowing corn not uncommon. Corn cultivated 1st time 5% complete. Corn stands 94% of normal; 3% of corn has been or will be replanted. Soybean acreage planted, 71% complete; 79% last year; 76% normal. Soybeans emerged, 32% complete; 26% last year; 41% normal. Soybean crop condition 8% excellent, 56% good, 27% fair, and 9% poor to very poor. Winter wheat condition 7% excellent, 53% good, 30% fair, 10% poor to very poor. Oat condition 14% excellent, 57% good, 25% fair, 4% poor to very poor. First crop alfalfa hay cut 10% complete; 3% last year; 17% normal; alfalfa and other hay condition 24% excellent, 53% good, 18% fair, and 5% poor to very poor. Pasture conditions 26% excellent, 57% good, 11% fair, 6% poor to very poor. Topsoil moisture conditions 29% surplus; 71% adequate. Subsoil moisture conditions 36% surplus; 63% adequate; and 1% short. Livestock mostly good condition.

**KANSAS:** Precipitation averaged less than 0.10 in. west, 0.25 to 0.75 in. central and northeast and 1.50 to 1.75 in. southeast and east central. Temperatures averaged from 61° northwest to 63° to 65° elsewhere ranging 3 to 6° below normal.

Wheat condition good to excellent except northwest and west central. Light to moderate infestation of tan spot, speckle leaf blotch, mosaic and septoria. Poor wheat turned under or baled for hay. Wheat 90% headed, 80% last year, 95% average. About 85% corn planted, 90% last year and average. Sorghum 30% planted, 15% last year and 30% average. Soybeans 35% planted, 20% last year and 30% average. Light to moderate alfalfa weevil infestation. Pasture and rangeland excellent. Surface and subsoil moisture mostly adequate. Days suitable for fieldwork: 4.5.

**KENTUCKY:** Cool and mostly dry. Temperatures averaged 4 to 8° below normal with highs averaging in middle 80's and lows averaging near 40°. Rainfall generally light but some areas had over 1.00 in.

Days favorable for fieldwork averaged 3.6. Soil moisture 84% adequate, 16% surplus. Corn 86% planted, 56% last year, 85% average about 60% planted corn emerged with stands fair to good. Soybeans 25% planted, 8% last year, 35% average. Burley 20% set, year ago 16%, average

41%. Dark tobacco 14% set. Tobacco plant supply generally adequate, some plants small. Barley harvest beginning; average beginning date June 8. Average beginning date wheat harvest expected to be June 21. Small grains looking better. Pastures good to excellent.

**LOUISIANA:** Rainfall amounts ranged from none to 0.81 in. Temperatures averaged from 6 to 80° below normal. High 93°; low 44°.

Soil moisture adequate. Days suitable for fieldwork: 5.5. Activities included spring plowing, planting of crops, hay and vegetable harvesting, and herbicide application. Spring plowing 98% 1984, 93% 1983. Rice planting 98% 1984, 88% 1983, 96% average; emerged 95% 1984, 85% 1983; 94% average; condition good. Corn planting 99% 1984, 100% 1983; emerged 98% 1984; silking 18% 1984, 12% 1983, 33% average; condition good. Cotton planting 98% 1984, 84% 1983, 94% average; emerged 97% 1984, 67% 1983, 87% average; condition fair to good. Soybeans planted 65% 1984, 35% 1983, 56% average; emerged 50% 1984, 25% 1983, 43% average; condition fair to good. Sorghum planting 95% 1984, 82% 1983, 73% average; emerged 92% 1984, 82% 1983, 67% average; condition good. Sweetpotato planting 68% 1984, 51% 1983, 73% average; condition fair to good. Sugarcane condition fair. Winter wheat condition good; wheat turning color 99% 1984, 86% 1983, 97% average; harvest 48% 1984, 20% 1983, 43% average. Vegetable condition fair to good. Peach harvest 4% 1984, 2% 1983. Hay first cutting 64% 1984, 45% 1983, 57% average. Pasture and livestock condition fair to good.

**MARYLAND AND DELAWARE:** Maryland: Temperatures averaged 3° below normal in north central to 1° above normal in south. Precipitation averaged 2.71 in. statewide with over 4.00 in. received on the Lower Shore.

Rains delayed fieldwork through 31st. Farmers had 1.5 days suitable for fieldwork. Topsoil and subsoil moisture both surplus. Small grains in fair to good condition, some areas beaten down by heavy rains and some low areas flooded. Wheat 80%, 95% 1983. Oats 100% headed, 25% last year. Barley 50% turned, 60% last year. Oats 20% turned, zero last year. Rye 30% turned, equal to 1983. Wheat beginning to turn. Field corn 90% planted, 85% last year, average 90%. Soybeans 35% planted, 25% 1983; 35% average. Tobacco 30% planted, 20% 1983; average 35%. Snap beans, tomato, cucumber, watermelon, and cantaloupe acreage planted at 100, 80, 85, 90, and 90%; compares with 85, 70, 65, 75, and 65% for 1983. First cutting of alfalfa hay 30%, 55% last year. Other hay 25% cut once, equal to 1983.

Delaware: Temperatures averaged below normal. Rainfall averaged 4.07 in. ranging from 2.77 in. at Wilmington to 4.81 in. at Dover.

Heavy rains limited fieldwork to 1.5 suitable days. Topsoil and subsoil moisture surplus throughout State. Small grain remain in good condition. Wheat headed 95%, 90% 1983. Barley 60% turned, 70% 1983. Wheat less than 5% turned, equal to last year. Rye yet to begin heading, 1983 10% headed. Corn 95% planted, 90% last year; average 95%. Soybean planting 35%, equal to 1983, 40% average. Vegetable planting made some progress after rains early in the week. Snap beans and tomato planting at 60 and 80% respectively compares with 55 and 60% in 1983. Lima bean, sweet corn, cucumbers and cantaloupe acreage planted at 10, 90, 80, and 90% respectively behind year earlier rates of 40, 100, 90, and 90% planted. Watermelon acreage at 90% planted equal to 1983. First cutting of alfalfa hay 20%, 40% cut in 1983. Other hay first cutting 10%, 15% 1983.

**MICHIGAN:** This was a cool and wet spring week. Temperatures averaged almost 5° below normal. Moderate amounts of rain fell over the State.

Saturated fields made it virtually impossible to do fieldwork before weekend. Statewide 2.0 days suitable for fieldwork. Moisture supplies rated mostly surplus southern areas adequate northern areas. Corn planting 90% complete, 75% last year, 89% average. Soybeans 40% complete, 25% last year, 76% average. Dry beans 2% seeded, 2% last year, 14% average. Winter wheat condition mostly good. No wheat headed this year, 2% last year, 22% average. Fruit crops and vegetables progressing slightly behind normal.

**MINNESOTA:** High pressure dominated, resulting in cool temperatures the first of the week and warm temperatures and scattered thunderstorms the remainder of the week. Temperatures averaged 1 to 3° below normal for the southern third and near normal to 3° above normal elsewhere. High: 95°, low 29°. Precipitation averaged 0.34 to 0.95 in. below normal. Greatest weekly total: 1.19 in.

Most planting now completed. Days suitable for fieldwork: 5.9. Except for south and east edges of State, topsoil moisture getting dry. Late-seeded fields need a good soaking rain. Topsoil moisture: 5% very short, 40% short, 52% adequate, 3% surplus. Planted: Field corn 95%, 1983 91%, normal 93%; soybeans 86%, 1983 72%, normal 78%; sunflowers 88%; 1983 74%, normal 76%; potatoes 94%, 1983 81%, normal 80%. Emerged: Corn 75%, 1983 55%, normal 71%; soybeans 32%, 1983 15%, normal 38%; spring wheat 97%, 1983 87%, normal 86%; oats 96%, 1983 89%, normal 90%; barley 97%, 1983 85%, normal 82%.

**MISSISSIPPI:** Average temperatures 8° below normal, extremes 36 and 91°. Greatest 24-hour rainfall 2.00 in.

Soil moisture adequate eastern, short western part of State. Major activities: Planting soybeans, cutting wheat, insect control. Fieldwork: 5.9 days suitable, 4.9 days 1983, 4.1 days average. Cotton fair to good; 100% planted 1984 and average, 96% 1983; 90% emerged, 76% 1983, 94% average; 1% squaring, 0% 1983, 4% average. Soybeans fair; 54% planted, 50% 1983, 46% average; 27% emerged, 17% 1983. Rice 100% planted, 90% 1983, 96% average; 80% emerged, 73% 1983, 83% average; condition fair. Wheat good to fair, 60% ripe, 25% 1983; 8% cut, 4% 1983, 15% average. Corn good; 100% planted, 93% 1983, 97% average; 93% emerged, 81% 1983; 6% silking. Hay harvest 23% completed. Peach crop good; 8% harvested. Sorghum fair to good; 85% planted, 57% 1983, 61% average. Sweetpotatoes 63% planted, 45% 1983, 62% average. Watermelons 92% planted; peanuts 89%.

**MISSOURI:** Cool weather prevailed as temperatures averaged 8° below normal. Precipitation was extremely close to 1.00 in. but over 3.00 in. in some parts of the Bootheel.

Days suitable for fieldwork: 3.2. Corn 82% planted, 66% last year, 67% normal. Soybeans 29% planted, 33% last year, 47% normal. Grains sorghum 58% planted, 44% last year, 52% normal. Winter wheat 82% headed, 51% last year, 78% normal. Cotton 100% planted, 90% last year, 100% normal, none squaring. Winter wheat condition fair to good. Pasture condition mostly good. Topsoil moisture 30% surplus, 70% adequate.

**MONTANA:** Week began cool but by midweek 90° temperatures covered most of State. Some areas had maximum temperatures above 100°. Much cooler by end of week. Precipitation was mostly light to none.

Soil moisture mostly short except west and south central. Fieldwork: 6.0 days suitable.

Growth and condition winter wheat and spring crops fair, except northeast mostly poor. Planting progress: Percent completed this year, last year and average; potatoes 80, 95, 75; dry beans 75, 85, 80; corn 95, 90, 75; spring wheat emerged 90, 90, 75; barley emerged 90, 90, 75. Over 70% cattle and sheep moved to summer ranges. Stock water short north central, northeast and southeast.

**NEBRASKA:** Temperatures normal over Panhandle, 2 to 3° below normal central areas, 5° below east. Precipitation general, 0.20 in. Panhandle, 0.60 in. north and 0.20 to 0.40 in. remainder of State.

Winter wheat mostly fair to poor; 92% jointed, 100% last year and average. Headed 25%, 35% last year, 65% average. Winter wheat development nearly two weeks behind average. Corn planting 92%, 97% last year and 90% average. Emergence 60%, 60% last year, 70% average. Soybean planting 40%, 75% year ago, 60% average. Emergence 15%, 15% last year, 30% average. Sorghum planted 40%, 60% last year and average. Emergence 10%, 15% last year, 30% average. First cutting alfalfa 10%, 15% last year, 30% average. Pasture and range feed adequate. Topsoil moisture adequate. Subsoil moisture mostly adequate to surplus. Days suitable for fieldwork: 4.6.

**NEVADA:** Longer sunlight hours and shorter nights combined with generally high pressure systems pushed average temperatures 4 to 5° above normal north and 18° above extreme south. End of period brought showers and thunderstorms to central and eastern south central areas.

Higher night temperatures favored vegetative growth. Range grasses longer than usual. Summer grazing prospect excellent all areas except extreme south where mostly poor. Due to dry weather, fire danger high most areas.

**NEW ENGLAND:** Temperatures averaged 4 to 7° below normal over northeastern Maine, elsewhere 6 to 10° below. Heavy rainfall most of the week. Northern regions averaged 4.50 in.; southern areas around 7.00 in. Greatest measurement was 10.55 in. at Southbridge, Mass.

Flooding extensive along the Connecticut River Valley with significant shade tobacco, potato and vegetable losses. Low-lying areas still under water. Nitrogen leaching heavy. Growers pumping off excess water. First cutting of hay and fruit spray programs delayed. All other fieldwork at standstill. Maine potatoes 75% planted, 50% last year, 90% normal. Field corn 70% planted, 40% emerged. Fieldwork 8 days behind schedule. Extent of crop damage unknown at this time.

**NEW JERSEY:** Temperatures averaged 6° below normal. Extremes were 40° on the 1st and 81° on the 28th. Weekly rainfall averaged 4.97 in. north, 5.50 in. central and 4.14 in. south. The heaviest 24-hour total was 3.35 in. on the 29th to 30th. Estimated soil moisture, in percent of field capacity, averaged 97% north, 95% central and 92% south. Four inch soil temperatures averaged 60° north, 63° central and 62° south.

Fieldwork: 2.0 days suitable. Below normal temperatures and excess rainfall continues to inhibit plant growth. Plowing and planting still behind schedule over most of the State.

**NEW MEXICO:** Hot week with scattered thunderstorms.

Scattered thundershowers benefitted range. Light hail damage to cotton. Small grains fair to good. Corn, cotton planting nearly complete.

Grain sorghum planting past midpoint. First cutting alfalfa continuing, second cutting getting underway. Haying oats, PIK wheat. Lettuce harvest complete, onion digging started. Ranges improving. Branding calves, marking lambs. Stock moving to high country. Cotton planted: 98%, last year 81%, average 94%. Cotton squaring: 0%, last year 0%, average 0%.

**NEW YORK:** Temperatures below normal. Precipitation heavy and well above normal. Wet condition halted field activities. Oat planting 48% complete, 80% 1983, 94% average. Corn planting 31% complete, 63% 1983, 79% average. Planting 3 to 4 weeks behind normal. Some fields will need replanting. Soil moisture surplus to excessive. Hudson Valley and western fruit set good.

**NORTH CAROLINA:** Temperatures were 6 to 70 below normal in mountain and Piedmont regions. Coastal Plain region average 1 to 30 below normal. Precipitation ranged from 1.00 to 6.45 in.

Soil moisture: 2% short, 38% adequate, 60% surplus. Days suitable for fieldwork: 3.1. Condition: Corn 27% fair, 70% good, 3% excellent. Cotton 5% poor, 33% fair, 62% good. Peanuts 29% fair, 71% good. Soybeans 1% poor, 20% fair, 79% good. Tobacco 43% fair, 56% good, 1% excellent. Irish potatoes 16% fair, 81% good, 3% excellent. Peaches 10% fair, 75% good, 15% excellent. Plantings: Flue cured tobacco 98%, 1983 95%, average 99%. Burley tobacco 28%, 1983 39%, average 62%. Sorghum 55%, 1983 61%, average 62%. Soybeans 49%, 1983 61%, average 59%. Sweetpotatoes 40%. Major farm activities: Planting soybeans and corn, transplanting tobacco and sweetpotatoes, harvesting hay, cutting small grain silage, sidedressing crops, applying herbicides, cultivating corn and tobacco, general farm maintenance.

**NORTH DAKOTA:** Windy and warm with only spotty precipitation. Temperatures near normal south and east to around 30 above normal northwest. Extremes were 98° northwest and central on the 30th and 31st respectively and 23° central on the 27th. Precipitation ranged from 0.06 in. central and south central to 0.01 in. elsewhere.

Dry, windy weather a major concern. Topsoil moisture below normal, 94% short or very short versus average of 30% short to very short. Scattered showers at present time could provide some relief. Seeding of small grains complete, well ahead of normal. Emergence also ahead of normal. Emergence this year compared to last year and average (1979-83): Spring wheat 85, 79, 76; durum 81, 68, 71; oats 81, 76, 75; barley 89, 80, 76. Late season crop planting also nearing completion, well ahead of average. Planting this year compared to last year and average: Corn 99, 84, 73; soybeans 94, 92, 81; flax 80, 78, 61; potatoes 100, 90, 86; sunflower 73, 71, 62.

**OHIO:** Temperatures 5 to 90 below normal. Highs from mid-60's to 70's, lows from mid-40's to 50's. Extremes from 34 to 88°. Precipitation generally under 1.00 in. Bare soil temperatures averaged upper 50's to low 60's. Base 50 growing degree days accumulations 30 to 45 below normal.

Soil moisture 33% adequate, 67% surplus; 2.0 days suitable for fieldwork. Activities included planting corn, soybeans, spraying fields, cutting hay, hauling manure, repair of machinery. Corn planted 80% 1984, 75% 1983, 85% average; corn emerged 60% 1984, 55% 1983; condition fair to good. Soybeans planted 40% 1984, 40% 1983, 65% average; soybeans merged 30% 1984, 20% 1983; condition fair. Winter wheat

headed or beyond 40% 1984, 45% 1983, 60% average; condition fair. Pasture condition good.

**OKLAHOMA:** Temperatures averaged 4 to 90 below normal. Precipitation ranged 0.08 in. Panhandle to 1.24 in. northeast.

Warm, dry weather allowed wheat harvest to begin south. Some damage northeast from previous week's heavy rain. Some southwest wheat needs rain to salvage crop. Wheat made excellent growth and development all areas. Armyworms invading fields north. Wheat and pastures good to fair, livestock good condition. Wheat headed: 99%, 98% 1983; 99% average. Cotton planted: 40%, 30% 1983; 40% average; cotton squaring: 0%, 0% 1983; 0% average.

**OREGON:** Dry and warmer with high temperatures ranging from 85 to 98° midweek. Coast and Willamette Valley reported 0.10 in. of precipitation. Extreme northeast reported 0.70 in.

Winter wheat in good condition: 56% headed, 78% in 1983 67% on average. Septoria spraying nearly complete in west; some eastern fields have barley yellow dwarf of stripe rust problems. West of the Cascades: Hay cutting, grass silage harvest, and final spring grain seeding. Eastward: Summer fallow work spring grain seeding nearly complete at est elevations, first hay cutting complete around Hermiston and underway in remaining Columbia Basin region and Malheur County. Malheur sugarbeets about 60% thinned. Soil moisture supply surplus. Wasco County Bing cherry set normal. Willamette Valley: Caneberries blooming, strawberries ripening with harvest in 2 weeks. Cranberries have begun to bloom. Douglas County: Scab and mildew spraying on pome fruits, codling moth spraying on apples. Potatoes: Cultivation complete with rows closed at Hermiston-Boardman, planting nearly finished in central area, planting 95% complete and emergence 5% in Klamath County, emergence 75% in Malheur County. Asparagus harvest around Hermiston. In west, many vegetable fields being worked or planted with dry weather. Livestock condition good. Mid and high elevation rangelenad in east beginning to greenup.

**PENNSYLVANIA:** Cool and wet week. Average temperature 70 below the normal of 64°. Widely scattered reports of light frost northern counties midweek. Precipitation well above normal with State average being 2.26 in.

Days suitable: 2.0. Moisture surplus to adequate. Activities: Plowing; spraying; hay making; harvesting haylage; cutting rye for ryeilage and green chop; planting corn; potatoes, beans, soybeans; harvesting asparagus and rhubarb. Plowing 79% complete, last year 84%; average 96%. Soybeans 26% planted, last year 34%. Oats 88% planted, last year 94%. Potatoes 76% planted, last year 72%. Corn 58% planted, last year 73%; average 84%. Barley 68% headed, last year 77%. Wheat 31% headed, last year 58%. Haystand conditions good to fair. Feed from pastures above average to average.

**PUERTO RICO:** Island average rainfall 2.78 in. or 1.01 in. above normal. Highest weekly total 10.20 in. Highest 24-hour total 3.42 in. Temperature averaged about 80 to 79° on coasts and 74 to 73° interior divisions. Mean station temperature ranged from 80.9 to 65.9°. Extremes 93 and 58°.

**SOUTH CAROLINA:** Weather during week varied from wet and warm to sunny but unusually cool. Record low temperatures were established 31st and 1st, recovered to near normal over weekend. Rainy conditions persisted over State tapering off

early in week. Clear skies, low humidities favored rapid dryout of soils after midweek.

Soil moisture mostly adequate. Days suitable for fieldwork: 3.8. Corn condition fair to good. Cotton condition fair to good. Soybeans planting still progressing: 41% planted, 48% last year, 59% average. Wheat condition good; 5% harvested, 3% last year, 14% average; 50% ripe, 29% last year, 59% average. Tobacco condition fair to good, some premature blooming still exist. Peach harvest progressing smoothly, condition good. Watermelon condition fair to good. Tomato condition continue good to excellent. Hay harvest still very active.

**SOUTH DAKOTA:** Average temperatures ranged from 1 above to 70 below normal. Extremes: 96 and 28°. Rain fell over most of the State with up to 2.50 in. reported.

Days suitable for fieldwork: 4.0. Topsoil moisture was short to adequate over the State with some surplus still reported. Winter wheat was in fair to good condition. Range and pastures in good condition. Corn planted 83%, 1983 85%, average 88%. Spring wheat planted 100%, 1983 100%, average 100%. Spring wheat emerged 96%, 1983 96%, average 99%. Sorghum planted 30%, 1983 44%, average 48%. Winter wheat headed 15%, 1983 17%, average 41%.

**TENNESSEE:** A high pressure system prevailed most of the week bringing cooler Canadian air into the State. Temperatures averaged in the 60's and were generally 10° below normal. Rainfall was generally light with isolated moderate amounts early in the week.

Farmers averaged 5.0 days of fieldwork. Soil moisture: 20% surplus, 75% adequate, 5% short. Corn planted: 88%, 1983 76%, average 87%. Cotton planted: 99%, 1983 87%, average 99%. Soybeans planted: 32%, 1983 13%, average 43%. Tobacco set: 55%, 1983 48%, average 68%. Wheat headed: 100%, 1983 100%, average 98%. Wheat turning yellow: 35%, 1983 31%, average 63%. Alfalfa hay - 1st cutting: 90%, 1983 66%, average 80%. Pastures and livestock in good condition.

**TEXAS:** Strong high pressure ridge from southern Canada through Central Plains kept cool, dry conditions over State week. High moved into Texas early week, numerous record low temperatures set South, East Texas. Weak cold front entered West Texas on 30th, scattered showers, thunderstorms High Plains and Big Bend regions. Weekend arrived, frontal system stalled Central portions State, with approach upper level storm from west, substantial rain Edwards Plateau, Trans-Pecos region. Temperatures averaged much below normal statewide. Rainfall near normal Edwards Plateau, across Trans-Pecos, amounts averaging 1.00 in. below normal remainder State.

**Crops:** Scattered light rain portions State throughout week. Planting, harvesting activities continued, only minor delays due weather problems. Planting dryland fields continues Plains. Crops Central, South Texas mostly fair condition. Additional rain may not help severely stressed crops. Sorghum planting progress dryland fields Plains, Cross-Timbers. Some light rain helped soil conditions these areas. Blackland area fields benefitted recent rains, making fair growth. Some heading southern Blacklands. Only minor insect infestations. Many fields Central, South Texas turning color, few fields mature. Low yields expected, lack of rainfall. Sorghum condition 55% of normal compared with 69% a year ago. Dryland corn statewide fair condition due lack rainfall this season. Rain Central, South Texas; yields may not benefit from the moisture. Upper Coast

recent heavy rain help make crop. All irrigated corn should make good crop, although heavy irrigation necessary. Statewide corn condition 64% of normal compared with 77% a year ago. Dry planting cotton continued across Plains into Cross-Timbers where moisture allowed, cultivation, pesticide spraying continue Blacklands. Central Texas fields improved with recent rains. Boll setting continues South Texas, Rio Grande Valley. Irrigated cotton good condition. Wheat harvest full swing far north Low Plains. Recent rains saved many fields from deteriorating rapidly. Low Plains, Cross-Timbers, yields turning out better than expected. Wheat harvest beginning wind down Central Texas. Oat yields Blacklands light. Wheat yields fair to good. Current statewide wheat condition 56% of normal compared with 82% a year ago. Current reported conditions 3% excellent; 22% good; 46% fair; 28% poor; and 1% failure. Rice fields benefitted recent rains, promoted rapid emergence. Growth, slow due cool temperatures. Early planted soybeans up stands at present, look good. Late bean planting begun. Peanut land preparation completed Cross-Timbers, some moisture allowed planting to begin. Most producers wait additional moisture. Planted fields fair to good condition.

Cotton planted 65% 1984, 62% 1983, 74% average; cotton squaring 10% 1984, 6% 1983, 12% average; cotton setting bolls 3% 1984, 2% 1983, 3% average. Rice emerged 100% 1983, 100% 1983, 97% average. Sorghum planted all purposed 81% 1984, 66% 1983, 66% average; sorghum headed 36% 1984, 23% 1983, 29% average; sorghum turning color 10% 1984, 3% 1983, 7% average; sorghum mature 1% 1984, 0% 1983, 0% average. Wheat headed 97% 1984, 93% 1983, 98% average; wheat turning color 66% 1984, 35% 1983, 60% average; wheat harvested for grain 26% 1984, 7% 1983, 7% average. Oats harvested for grain 39% 1984, 25% 1983, 27% average. Peanuts planted 33% 1984, 27% 1983, 33% average. Soybeans planted 53% 1984, 41% 1983, 34% average. Sunflowers planted 57% 1984, 60% 1983, 43% average.

**Commercial vegetables:** Rio Grande Valley, peppers, melons, tomatoes being harvested. Cantaloup fields sprayed for aphids. Cucumber harvest completed. Citrus groves, some dieback of regrowth following last December's freeze showing up. San Antonio-Winter Garden, harvest watermelons begun. Harvest continues cabbage, cucumbers, onions. Slight delays rain showers experienced. Trans-Pecos, onion harvest begun. Lettuce harvest slowed due lower prices. Cantaloups good growth. East Texas, tomato harvest begun. Cultivating watermelon fields. High Plains, onions, potatoes progressing well. Potato harvest should begin soon Knox-Haskell area. Land preparation eppers begun. Carrots good condition early fields. Peaches various condition. Low Plains, sizes smaller due cool weather. Early varieties harvested Blacklands, showing good size. Peaches Hill County smaller due dry conditions. Pecan spraying casebearers about complete. Outlook this year's crop fair.

**Range and livestock:** Ranges perked up slightly with light rain. Most areas State remain below average rainfall. First cutting hay underway where conditions permit. Livestock still hauled markets at steady pace. Livestock condition begun declining following lack pasture foliage. Feeding continues many areas.

**UTAH:** Scattered thunderstorms and showers deposited moderate to very heavy precipitation in north central and northern mountains divisions. Rest of State light to moderate, except zero to very light in Uinta Basin and Dixie divisions. Temperatures averaged 8° above normal in southeast and Dixie divisions

and 3.50 above for rest of State. Individual stations ranged from normal to 100 above.

Days suitable for fieldwork: 6.5. Soil moisture short to adequate. Adequate northern one-half, short southern one-half. Oats planting virtually completed, 81% emerged and growing. Spring wheat and barley 90 to 97% emerged. Corn both for grain and silage 80% planted, 58% up. Some of the incompleteness is acreage being replanted after first planting seed had rotted in the ground. Potato acreage 40% planted, snap beans 25% and tomatoes 77%. Set of peaches and sweet cherries considered very good, tart cherries only fair. Movement of livestock onto summer ranges behind schedule. Livestock condition good.

**VIRGINIA:** Warm at beginning and end and cold in midweek. Temperatures averaged 54° with highest 92° at Richmond and lowest 29° in southeast. Heavy showers moved through State midweek. Rainfall averaged 2.00 in. with most in east and southeast and least in north and southwest.

Ample but needed rainfall increased topsoil moisture conditions to 6% short, 52% adequate, and 42% surplus. Heavy rains held days suitable for fieldwork to 2.7. Most crops remain in good to excellent condition. Corn planting rose to 92% complete, 92% last year, 93% average. The crop remains in good to excellent condition. Soybean planting 44% complete, 38% last year, 44% average. Soybean condition good to excellent. Peanut stands in good to excellent condition with virtually all acreage planted. Flue-cured tobacco transplanting 82% complete, 83% last year, 86% average. Fire-cured tobacco transplanting 65% complete, 68% last year, 71% average. Burley tobacco transplanting still behind normal, 30% complete, 47% last year, 56% average. Sun-cured tobacco transplanting 56% complete, 63% last year, 66% average. Fruit prospects excellent statewide. First cutting hay good to excellent in most areas. Small grain prospects good with harvesting of oats and barley beginning. A few reports of lodging in grain fields due to heavy rain.

**WASHINGTON:** A few showers fell over western and extreme northeast sections 26th as high pressure intensified over Pacific Northwest. Flow around high brought cool, dry air to State through 29th. Some rain produced by weak frontal system 30th and 31st but high pressure began to build on 1st bringing improved conditions.

Development of winter wheat crop remains behind normal, although prospects for good crop high. Stripe rust being reported club varieties wheat. Alfalfa hay harvest gained momentum during week due to warm, dry weather. Some field corn reseeded due to wind erosion. Apple scab found in orchards where preventive spraying not done, chemical thinning, although late, in progress Chelan and Yakima Counties. Strawberries, raspberries, blueberries in various stages bloom, depending on location. Root weevils active on strawberries. Vegetable growers, seriously delayed by cold, wet spring conditions, trying to catch up. Broccoli, cauliflower, carrot and green pea planting continues. Leaf lettuce harvest underway. Asparagus harvest sped up last week due to warmer weather. Pasture and range conditions improved many areas during week due to warmer weather. Dairymen western areas continue to green chop and put up grass silage. Haying began western areas. Cattle and sheep in good condition. Winter wheat headed 22% 1984; 82% 1983, 55% average.

**WEST VIRGINIA:** Temperatures averaged 5° below normal except the northeast where temperatures averaged 2° below normal. High of 92° reported in Clay, low 32° at Green Bank. Precipitation above normal in the northwest, north central and central portions of the State. South, northeast and southwest had below normal precipitation. Morgantown received the most rain 2.90 in., Bluefield had the least 0.09 in.

Soil moisture adequate. Days suitable for fieldwork: 3.4. Main activities: Planting corn, harvesting hay and gardening. Feed supplies adequate to short.

**WISCONSIN:** Rain fell over most of the southeast on the 30th while the northwestern areas had mostly sunny skies. Scattered frost was widespread the nights of the 29th and 30th, with temperatures dropping into the 20's in northern areas. Cool weather continued into midweek. Temperatures began to moderate toward the weekend with day time highs reaching into the 80's. Scattered showers and thunderstorms spread across the north late on the 1st and into the early part of the 2nd.

Days suitable for fieldwork estimated at 6.0 days. Soil moisture supplies were rated 15% short, 80% adequate and 6% surplus. Oats were 99% planted compared with 92% last year and an average of 99%. Corn was 90% planted compared to 72% last year and an average of 89%. Soybeans were 53% planted compared with 46% last year and 69% average. Fruit trees and other fruits in the north were in full bloom. The frost damaged some corn in the scattered parts of the State.

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Days suitable for fieldwork was estimated at 6.0 days. Soil moisture supplies were rated 15% short, 80% adequate and 5% surplus. Oats were 99% planted compared with 92% last year and an average of 99%. Corn was 90% planted compared to 72% last year and an average of 89%. Soybeans were 53% planted compared with 46% last year and 69% average. Fruit trees and other fruits in the north were in full bloom. The frost damaged some corn in the scattered parts of the State.

**WYOMING:** Average temperatures above normal over western two-thirds, below normal over parts of Big Horn Basin and eastern third. Highs in 80's and 90's, but many areas still had frost. Precipitation spotty, mostly from thundershowers. Most stations below normal.

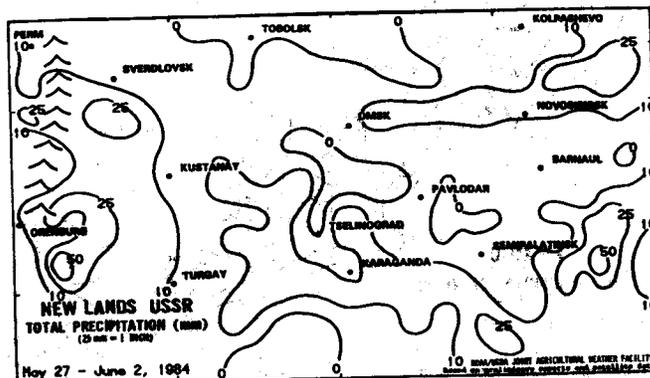
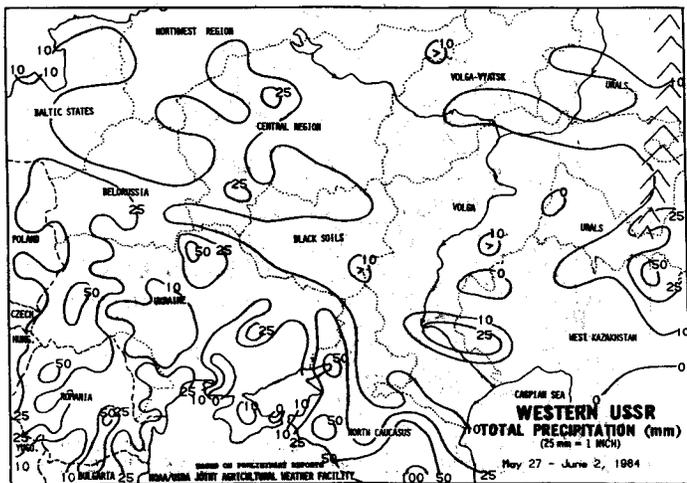
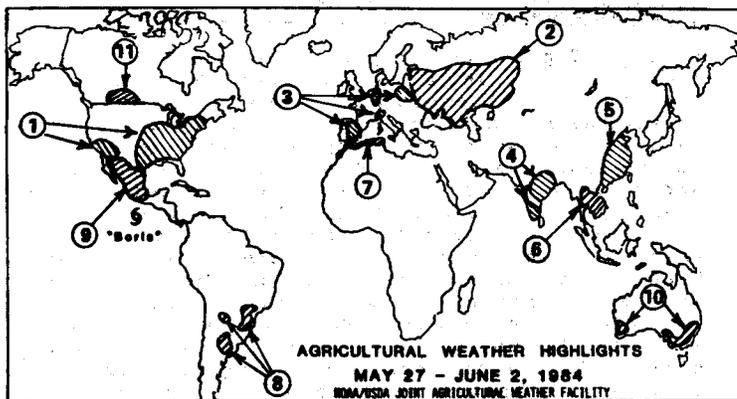
Topsoil moisture adequate 70% State. Days suitable for fieldwork: 6.0. Spring wheat planted: 90%; emerged 65%. Oats planted: 90%; emerged 70%. Barley planted: 95%; emerged 80%. Corn planted: 95%; emerged 55%. Sugarbeets planted, complete; emerged, 90%. Potatoes planted, 60%; emerged 10%. Dry beans planted: 50%; emerged 25%. Winter wheat fair to mostly good condition. Livestock fair to mostly good condition throughout State. Calf, lamb losses light to normal most areas. Ranges, pastures mostly good condition. Livestock moved to summer ranges; cattle, calves, 35%; sheep, lambs, 30%.

# International Weather and Crop Summary

May 27 to June 2

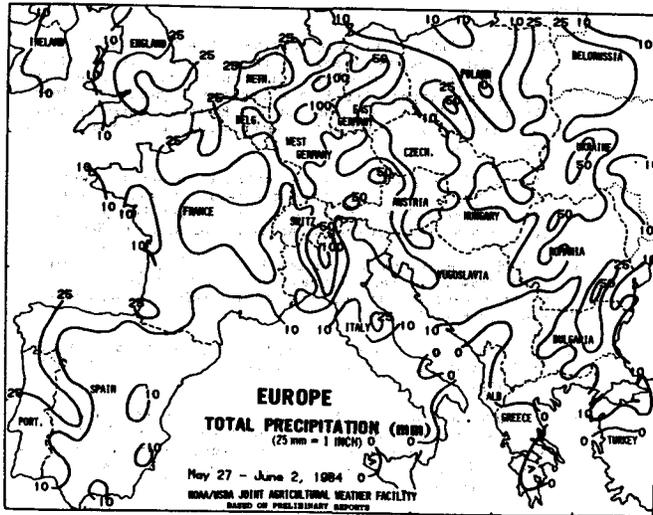
HIGHLIGHTS:

1. UNITED STATES ... Planting progresses in the Corn Belt and Delta States despite occasional showers, but heavy downpours stall progress in the East. Torrential rains flood some tobacco and vegetables in New England. Unusual coolness slows crop development east of the Rockies, while abnormal heat stresses livestock and immature crops in California and Arizona.
2. USSR ... Widespread showers continue to benefit western winter grain areas. Scattered showers and cooler weather lower potential stress conditions in east European USSR. Showers benefit spring wheat areas in the southern New Lands.
3. EUROPE ... Heavy rains produce local flooding and promote weed growth in West Germany and northern Italy. Drier weather favors grain maturation in Spain. Showers benefit crops in Poland.
4. SOUTH ASIA ... The monsoon begins in southern and eastern India. Continued rains will promote cotton and groundnut planting.
5. EASTERN ASIA ... Rain falls over southern rice areas and along summer crop areas of the Yangtze Valley. Mostly dry weather hastens grain filling of wheat in the North China Plain and timely showers aid early soybean growth in the Manchurian Valley.
6. SOUTHEAST ASIA ... Summer monsoon rains continue to benefit corn and rice in the vegetative stage.
7. NORTHWESTERN AFRICA ... Scattered showers cover maturing winter grains. Harvest activity may be starting.
8. SOUTH AMERICA ... Rain delays soybean harvesting in Argentina but greatly benefits topsoil moisture for wheat planting. More rain over Rio Grande do Sul saturates newly emerged wheatfields while dry weather aids Brazil's coffee harvest.
9. MEXICO ... Early corn and soybeans are growing slowly in the southern Plateau corn belt where rainfall has been light.
10. AUSTRALIA ... Dryness persists over much of Australia's southern and eastern wheat areas, reducing topsoil moisture for planting and early crop development. Light showers fall over western areas but rain is needed soon in the south and east.
11. CANADA ... Rain slows spring wheat planting in northern crop areas of Alberta and extreme northwestern crop areas of Saskatchewan but only light showers fall over the southern Prairies where moisture is insufficient for crop development.

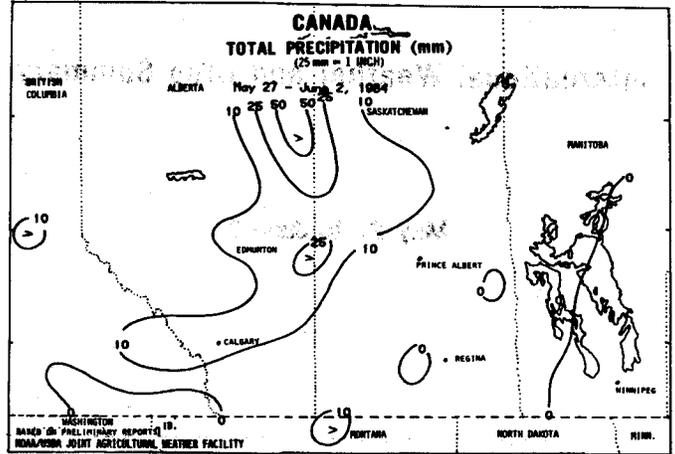


USSR...Widespread showers continued to benefit crops in western European USSR. Light to moderate showers, around 25 mm, covered portions of eastern European USSR, particularly the eastern Ukraine and western North Caucasus. However, the northern North Caucasus, southeastern Ukraine, most of the Volga Valley, and central Black Soils received less than 10 mm of rainfall. Cooler weather settled over the region with maximum temperatures in the mid- to upper 20's C, somewhat lowering the heat stress. Moisture supplies are good for crop growth in West European USSR, but moisture supplies are extremely low in the eastern winter grain area at a time when winter wheat, in the heading stage, needs substantial moisture for grain development.

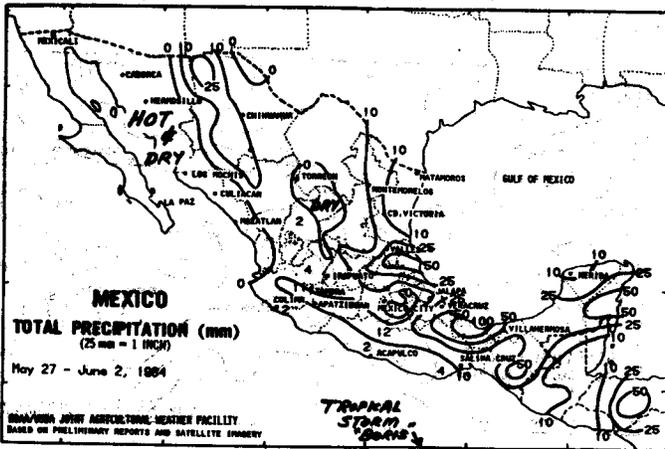
In the New Lands, beneficial showers (10-25 mm) increased topsoil moisture needed for emergence and early growth of spring wheat in southwestern areas. Showers continued over the extreme east where some planting delays are possible. Reports indicate sowing has progressed as far north as western Siberia. Planting is normally completed over the entire region by mid-June.



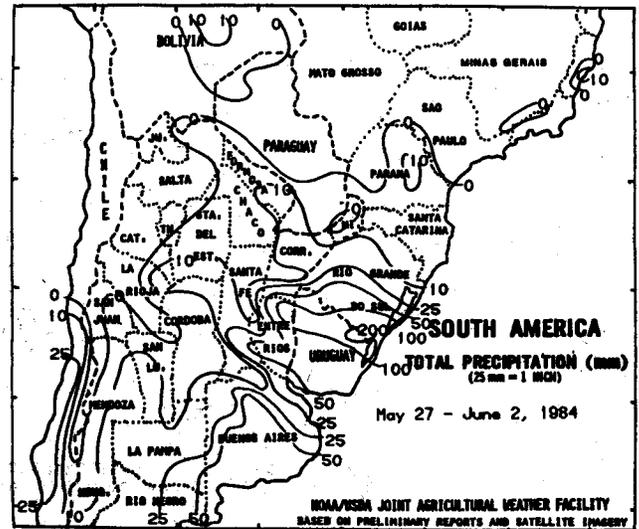
**EUROPE...**An intense storm system stalled over central Europe at mid-week, producing locally heavy rain for the second consecutive week in West Germany and northern Italy. Rainfall generally ranged from 50 to 100 mm, increasing the potential for local flooding. Drier weather favored grain maturation in Spain. In France, showers continued to increase soil moisture supplies for crops, but some delays in corn sowing are possible. In Poland, 10-25 mm of rain covered all but central crop areas, improving growing conditions for winter grains and spring sown crops. Weekly temperatures continued below normal over much of the region, except in Poland and Romania where temperatures were near normal.



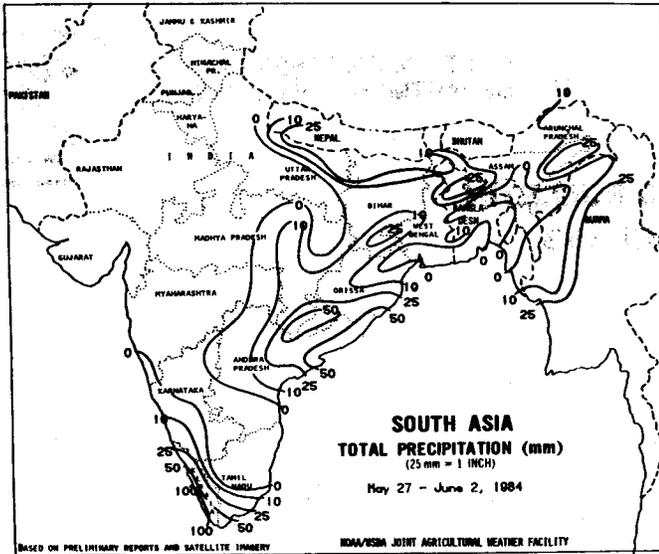
**CANADA...**Significant rainfall (in excess of 10 mm) occurred only in a narrow band from Calgary, Alberta, northeastward into northwestern Saskatchewan. Moisture has been mostly sufficient in these areas for planting and early growth of spring-sown crops. In fact, some northern crop areas have been too wet to complete crop plantings. In contrast, only light showers (less than 5 mm) fell over the dry southern crop areas where planting is nearly complete. Rainfall has been light during the planting season across southern portions of the Prairie grain belt. Periodic, light showers may have kept topsoils sufficiently moist for germination, but without substantial rain crop development will be adversely affected as moisture needs increase during the season.



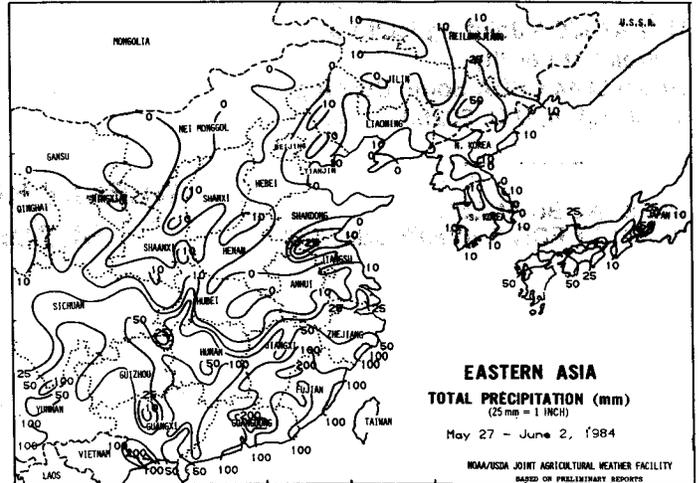
**MEXICO...**Rainfall continued to be very light over the southern Plateau corn belt, stressing some of the early planted corn and beans. Dry weather favored the harvesting of northeastern grain sorghum and corn, maturing early because of prolonged dry, hot conditions. Scattered heavy rains across Veracruz State and into the Yucatan Peninsula benefited sugarcane, coffee, and other tropical crops. Unusually hot weather dominated the northwest and the west coast, accelerating crop development and water needs of livestock and immature crops. Tropical storm Boris developed offshore south of Acapulco, and triggered mostly light rains over the southern valleys and a few heavy showers over the adjacent mountains. Much more rain is needed for southern field crops and orchards.



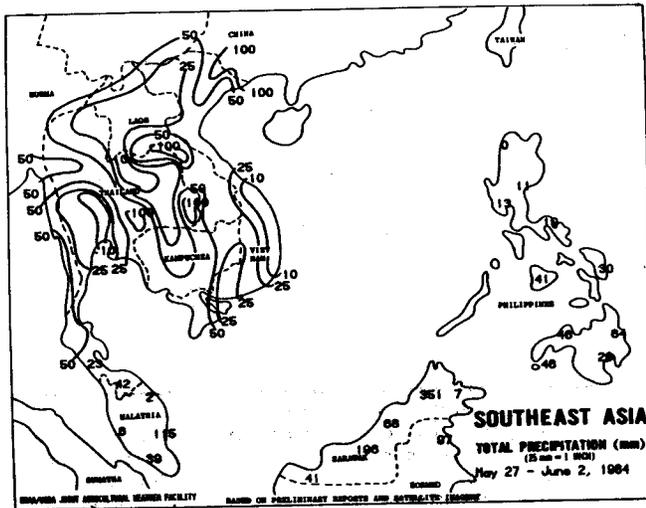
**SOUTH AMERICA...**Widespread rain fell over most crop areas of Argentina from Santa Fe southward throughout Buenos Aires. The moisture delayed soybean harvesting which is over 50-percent complete. Topsoil moisture supplies improved considerably for wheat planting which is underway in southern wheat areas. Some rain extended into northern cotton areas and interfered with the late harvest. In Brazil, dry weather prevailed over southern wheat areas during most of the week. Showers and thunderstorms returned late in the week and kept soils saturated in southern Rio Grande do Sul. Recent heavy rains may have damaged newly emerged wheat in the south. Mostly dry weather aided the coffee harvest in Sao Paulo, Minas Gerais and surrounding coffee areas.



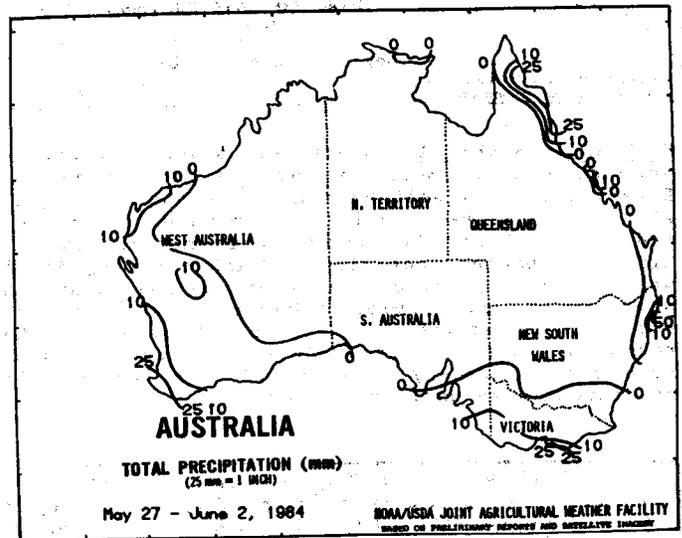
**SOUTH ASIA...**Mostly dry weather early in the week was followed by the onset of monsoon rains in southern and eastern India. Cotton and groundnut planting normally begins in early June, coincident with the beginning of the wet season. Seasonably dry, hot weather continued to aid the final stages of the wheat harvest in central and northern India. Bangladesh and India's state of Assam experienced a week of little rain, a welcome relief from the heavy rains of recent weeks which may have caused flood damage to rice. The onset of the monsoon season is about normal, with significant rain falling over southern and eastern areas recently. The rainfall during the next several weeks, however, will provide insight into the vigor of this year's rainy season.



**EASTERN ASIA...**Widespread rain fell over southern China aiding rice in the vegetative growth stage. The rain stayed mostly south of the Yangtze Valley with only light showers to the north. Some winter wheat harvesting likely occurred in southern wheat areas. Cotton, corn, and soybeans are in the vegetative stage along the Yangtze Valley where moisture supplies are generally adequate. The North China Plain was mostly dry but some showers fell over southern Shandong. Winter wheat is in the grain-filling stage in this region. Significant moisture benefited early growth of corn and soybeans in the Manchurian Valley. Mostly light showers fell over the Korean Peninsula.



**SOUTHEAST ASIA...**Summer monsoon rains surged into northern and eastern Thailand with 25 to 50 mm of rainfall reported. The rains benefited rice and corn in the vegetative stage. Light rain, around 10 mm, was reported in southwestern Thailand and additional showers are needed for crop growth. Showers continued to cover rice areas in the Philippines with the southern islands receiving the heaviest precipitation (25-50 mm).



**AUSTRALIA...**A few light showers fell over Victoria and extreme southern New South Wales, but dry weather covered southern and eastern wheat areas. The recent dryness has reduced topsoil moisture supplies for wheat planting. The limited moisture will hamper crop emergence. The grain yield potential in South Australia, Victoria, New South Wales, and Queensland will decline unless substantial rains fall over the crop areas soon. In Western Australia, which produces about 30 percent of the total wheat crop, light showers early in the week maintained sufficient moisture reserves for planting and early crop development.

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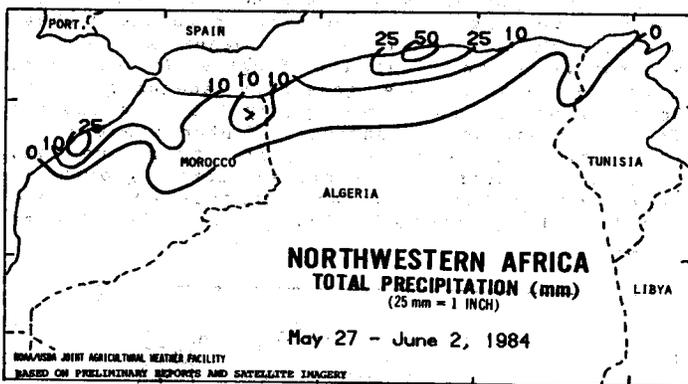
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**WEEKLY NEWS BULLETIN  
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(continued from p. 11)

Rice seeding was 95% finished, 1 point ahead of normal. Texas and Mississippi producers were finished. Planting was ahead of schedule in all States except Arkansas which was 1 point behind average.

Peanut planting was virtually complete in the Southeast and 33% finished in Texas as the month ended. Early planted fields had begun blooming. Tobacco transplanting was in full swing by late May. However, progress was behind schedule because of persistent wet conditions in most areas.

**NORTHWESTERN AFRICA...** Scattered showers occurred across most of Morocco and northern Algeria. Beneficially dry weather covered northern Tunisia. Winter grains are maturing over much of the region and dry weather will favor grain maturation and aid early harvest activity. Weather during April was unfavorably dry over much of the region and in some areas, particularly Morocco, yields were reduced. Most of the region is entering the normal dry season with grain harvesting underway. As a result, weekly coverage of this region will be discontinued until next autumn.

The Weekly Weather and Crop Bulletin (ISSN 0043-1974) is published weekly and jointly prepared by the U.S. Department of Commerce, National Oceanic and Atmospheric Administration (NOAA) and the U.S. Department of Agriculture (USDA). Publication began in 1872 as the Weekly Chronicle. It is issued under general authority of the Act of January 12, 1895, (44-USC 213), 53d Congress, 3d Session. NOAA is responsible for managing, printing, and distributing the Bulletin. The contents may be reprinted freely, with proper credit.

Annual subscriptions: domestic \$25, foreign \$33 (in U.S. funds by international money order or check drawn on U.S. bank) payable to U.S. Department of Commerce, NOAA. **POSTMASTER:** Send address changes to NOAA/USDA, Joint Agricultural Weather Facility, USDA South Building, Room 5844, Washington, D.C. 20250. Order subscriptions from the office and address listed above. Second class postage paid at Washington, D.C., and additional mailing offices.

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