

# WEEKLY WEATHER AND CROP BULLETIN

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

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

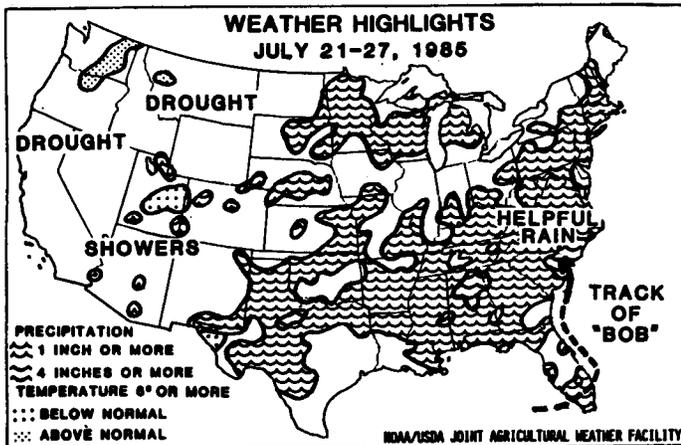
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July 30, 1985

## National Weather Summary

July 21 - 27



**TUESDAY...** Showers and thunderstorms were widespread through the central and southern Rockies, the southern and central High Plains, and across the northern Plains. Thunderstorms produced severe weather in much of the Southeast. Tropical Storm Bob moved across southern Florida and began moving northward along the east coast.

**WEDNESDAY...** Thunderstorms produced moderate to heavy showers from the Texas Panhandle through the western Great Lakes and lighter showers through the rest of the Plains. Thunderstorms covered the Southeast, and as Tropical Storm Bob moved toward the Carolina Coast torrential rains fell. Unusually cool weather moved over the Northeast.

**THURSDAY...** A line of moderate to heavy showers and thunderstorms reached from west central Texas through the central Great Lakes. Storm Bob briefly increased to hurricane strength and moved through the Carolinas and into Virginia as it weakened. Brief, very heavy showers accompanied the storm. Thunderstorms covered all of the East except New England. Cooler weather was over the Rockies and Plains.

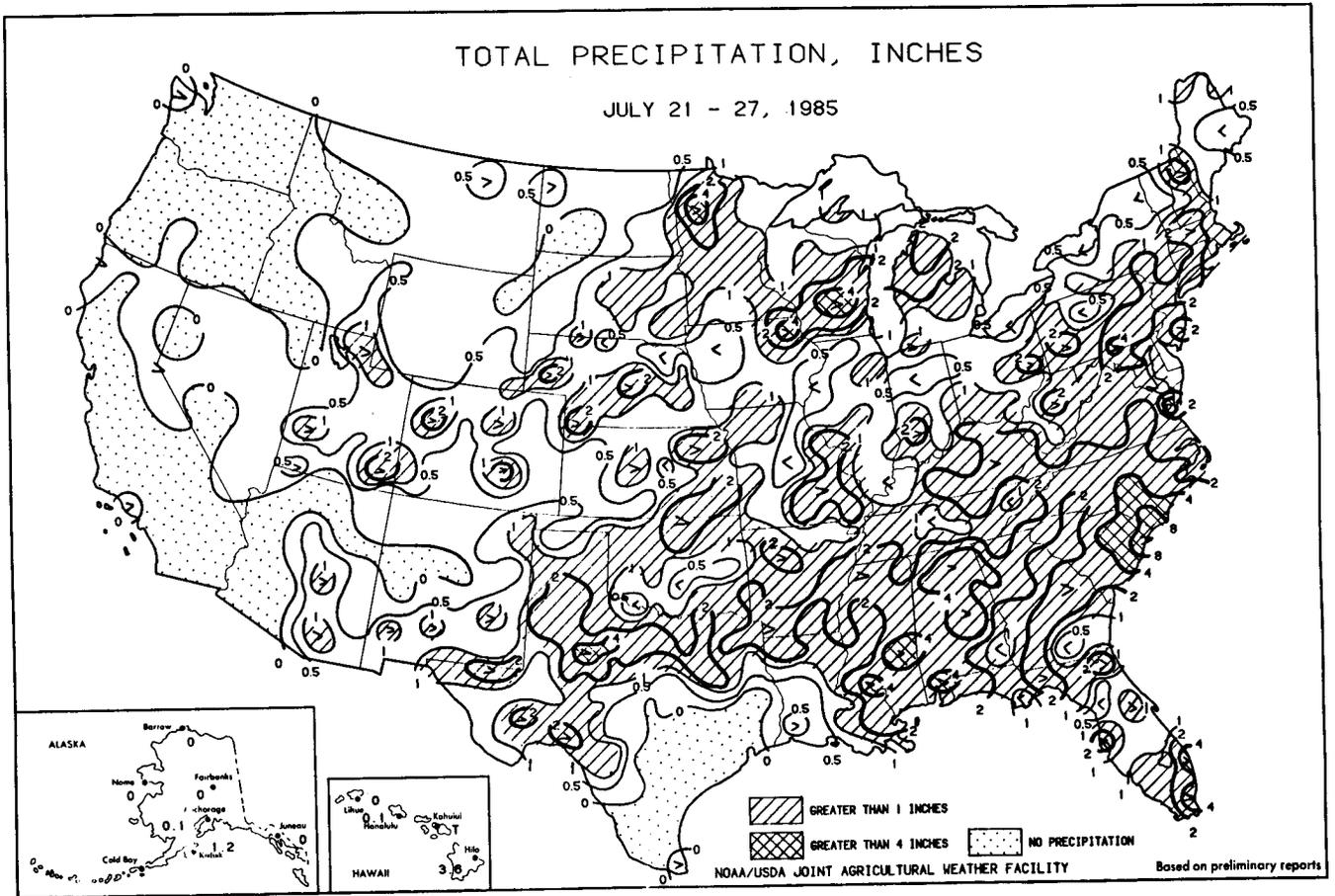
**FRIDAY...** Moderate to heavy showers and thunderstorms reached from Alabama and northern Mississippi through West Virginia to southern New England. Lighter showers covered the rest of the Southeast. Showers were scattered over the Plateau and southern Rockies. Warmer temperatures began spreading over the northern Plains.  
(Continued to back cover)

**HIGHLIGHTS:** Tropical moisture flowing into the Southwest induced showers over much of the Plateau, the Southwest, and central Rockies. Showers and thunderstorms covered nearly all of the East. Beneficial rain fell in much of the Corn Belt, but some areas need more. Beneficial rain also fell in parts of the Southeast and from the Carolinas through Virginia and Maryland. Tropical Storm Bob moved out of the Gulf of Mexico, across southern Florida, and up the east coast. The storm briefly became a hurricane as it moved into South Carolina and then weakened as it moved northward through Virginia and Maryland. Heavy rain fell along the path of the storm. Temperatures were generally cooler than normal in most of the East, but the Pacific Northwest and the northern High Plains were warmer than normal.

**SUNDAY...** Showers and thunderstorms were scattered from northern California across the central Plateau, through the central Rockies, and in Arizona. Thundershowers widespread through the central Plains and from northeastern Texas, through the Ohio Valley to the mid-Atlantic States and southern New England. Showers also fell along the eastern gulf coast and Florida. Seasonably warm temperatures covered most of the Nation.

**MONDAY...** Tropical moisture continued to pour into the Southwest triggering showers and thunderstorms. Elsewhere, showers and thunderstorms were widespread from west central Texas to southern New York and southward. Tropical Storm Bob, in the southeastern Gulf of Mexico, spread showers over southern Florida. High temperatures reached 100 degrees in parts of the northern Plains.

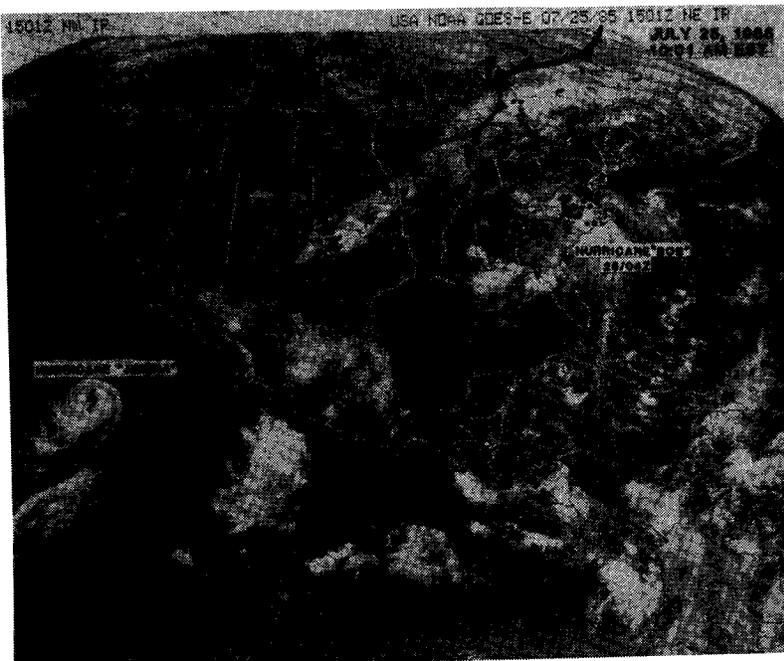
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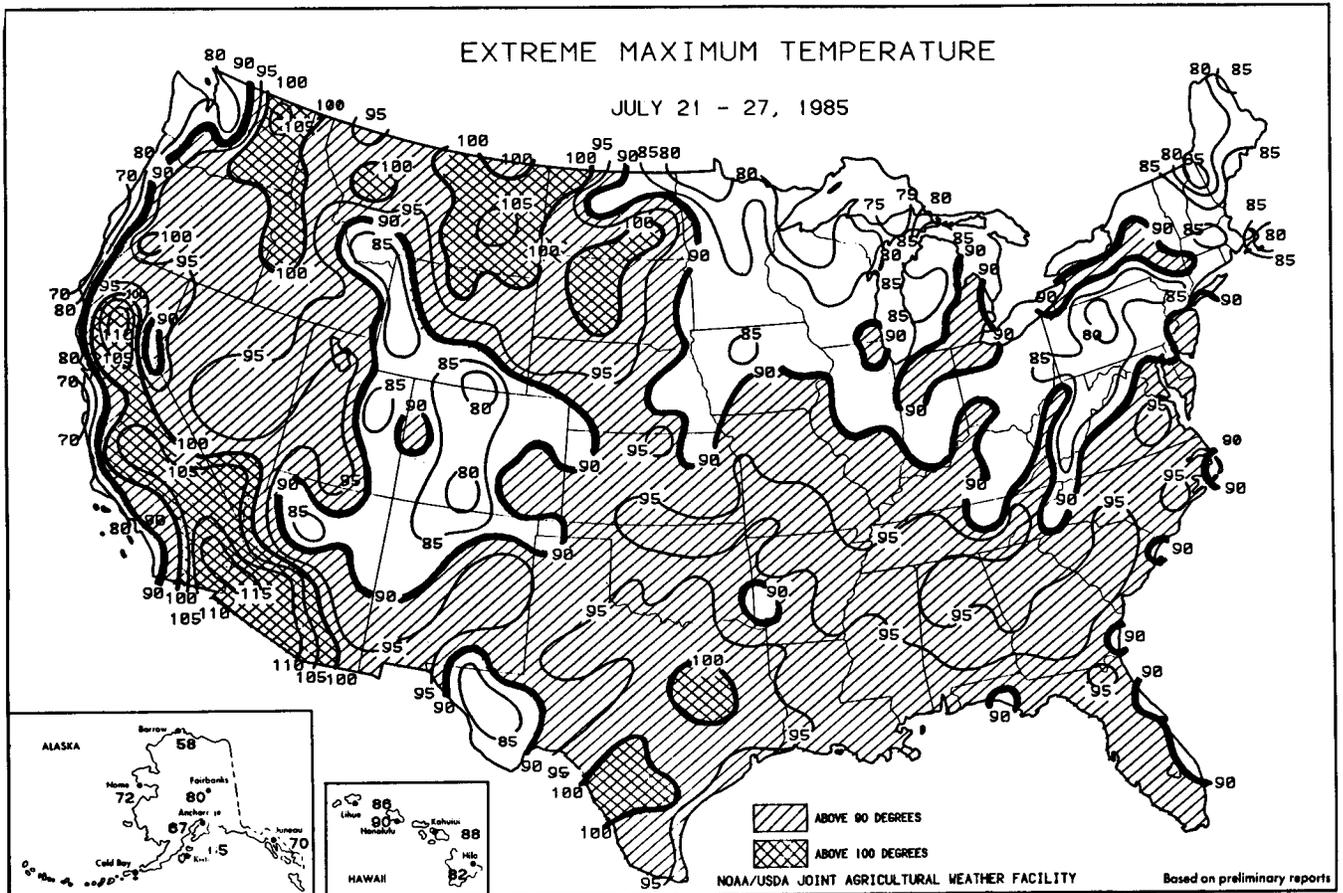
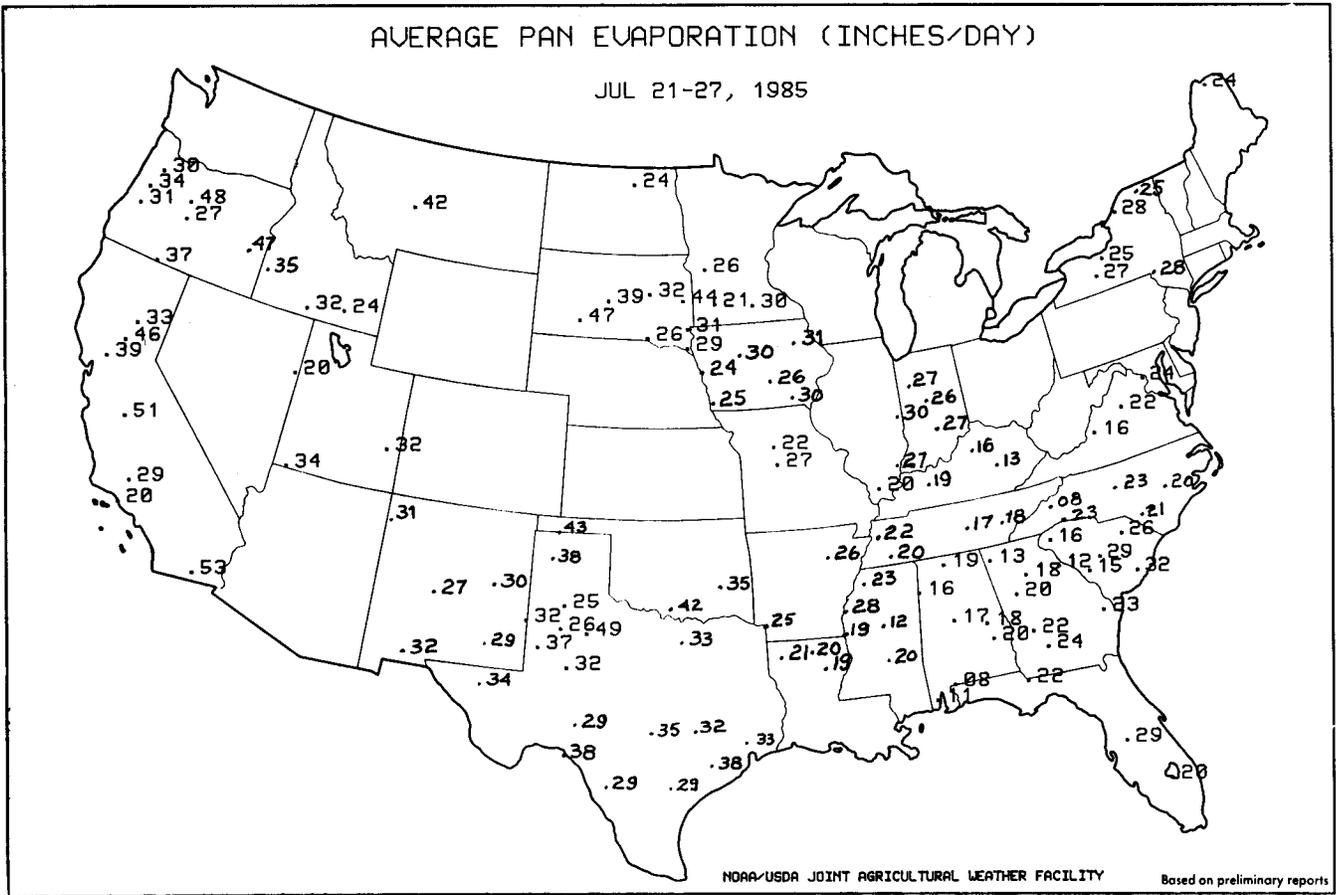
A FRONTAL SYSTEM MOVES THROUGH CENTRAL UNITED STATES TRIGGERING SHOWERS AND THUNDERSTORMS.

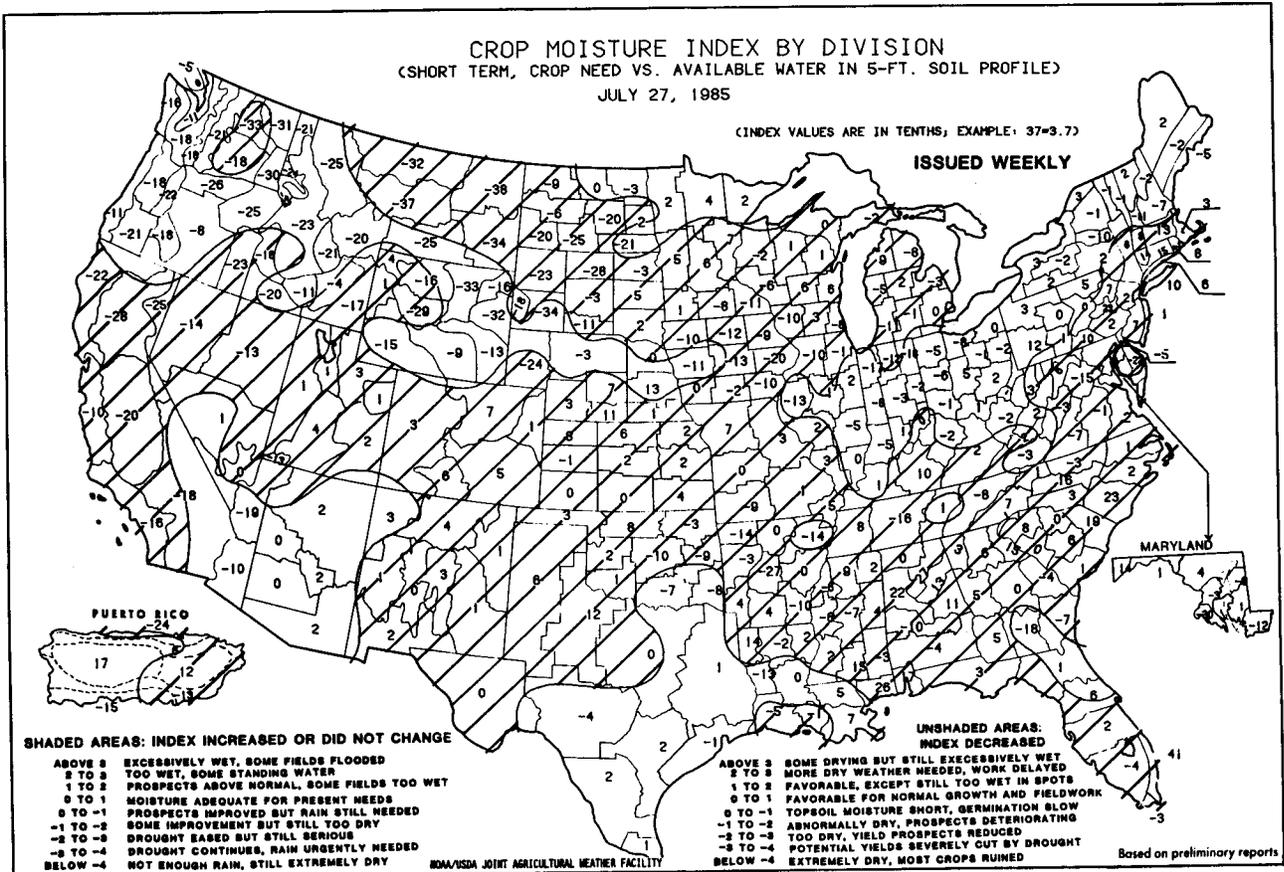
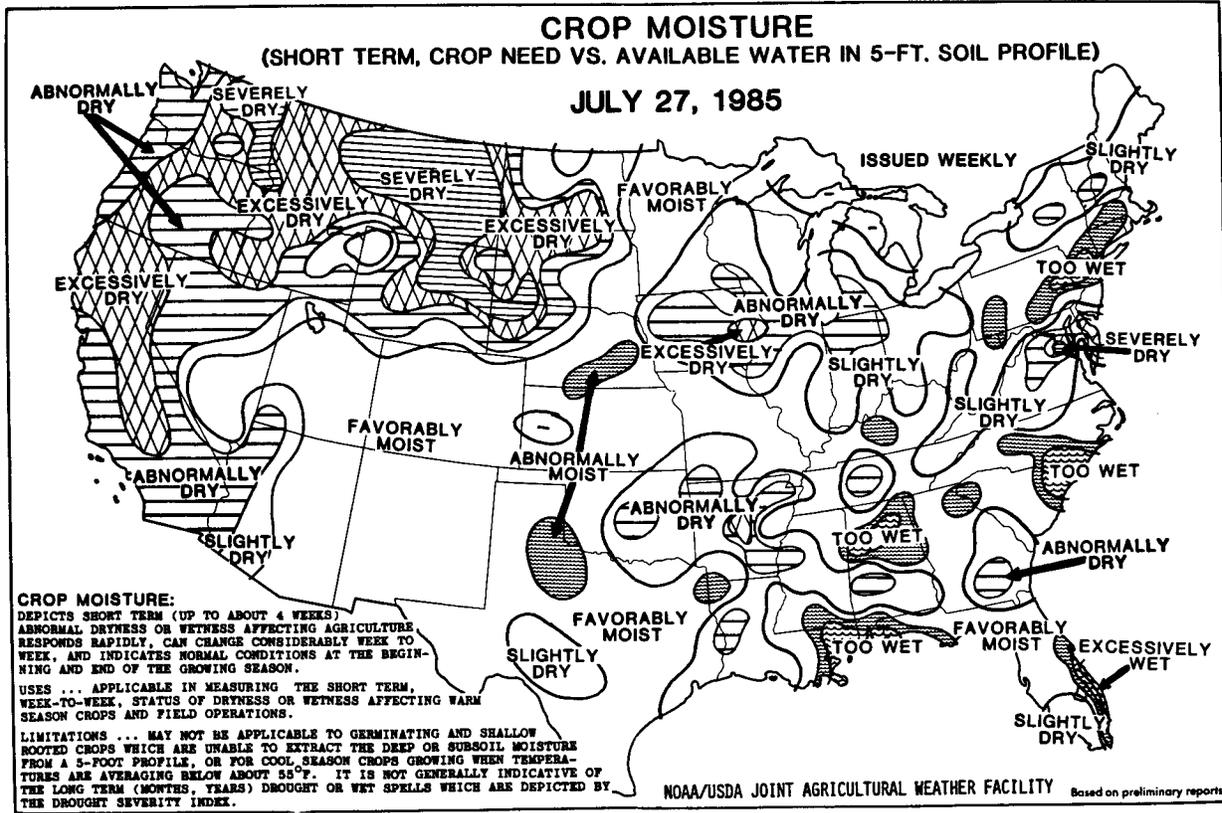
A TROPICAL DEPRESSION IN THE GULF OF MEXICO BECAME A TROPICAL STORM ON JULY 22 AND MOVED ACROSS SOUTHERN FLORIDA AND THEN NORTHWARD ALONG THE COAST. THE STORM BRIEFLY BECAME A HURRICANE BEFORE IT MOVED TO THE SOUTH CAROLINA COAST AND BEGAN WEAKENING. ITS REMNANT IS ON THE BORDER OF VIRGINIA AND NORTH CAROLINA AT THE TIME OF THIS PICTURE.

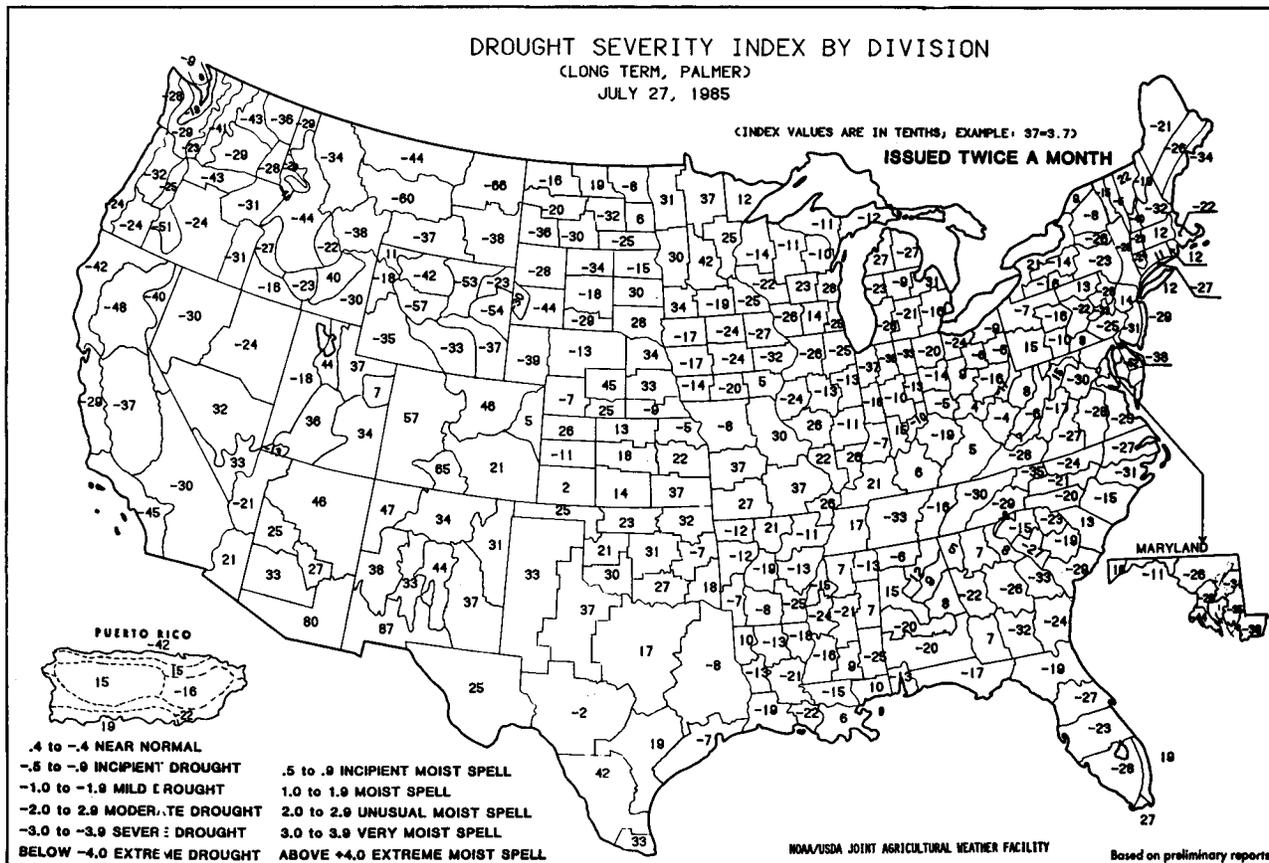
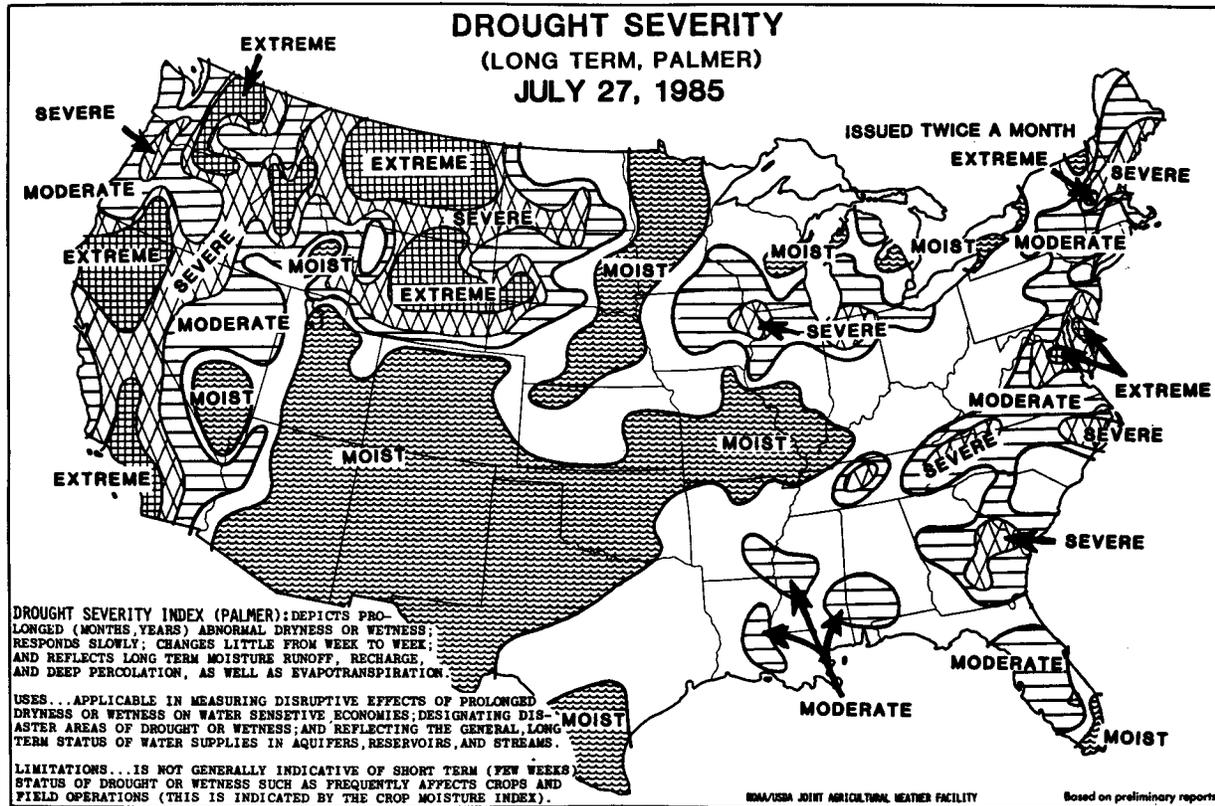
HURRICANE "JIMENA" IN THE PACIFIC IS CLOCKING WINDS OF 100 KNOTS AND MOVING WEST NORTHWESTWARD. ANOTHER SUSPICIOUS AREA AT 15 DEGREES NORTH AND 110 DEGREES WEST IS BEING WATCHED FOR FURTHER DEVELOPMENT.

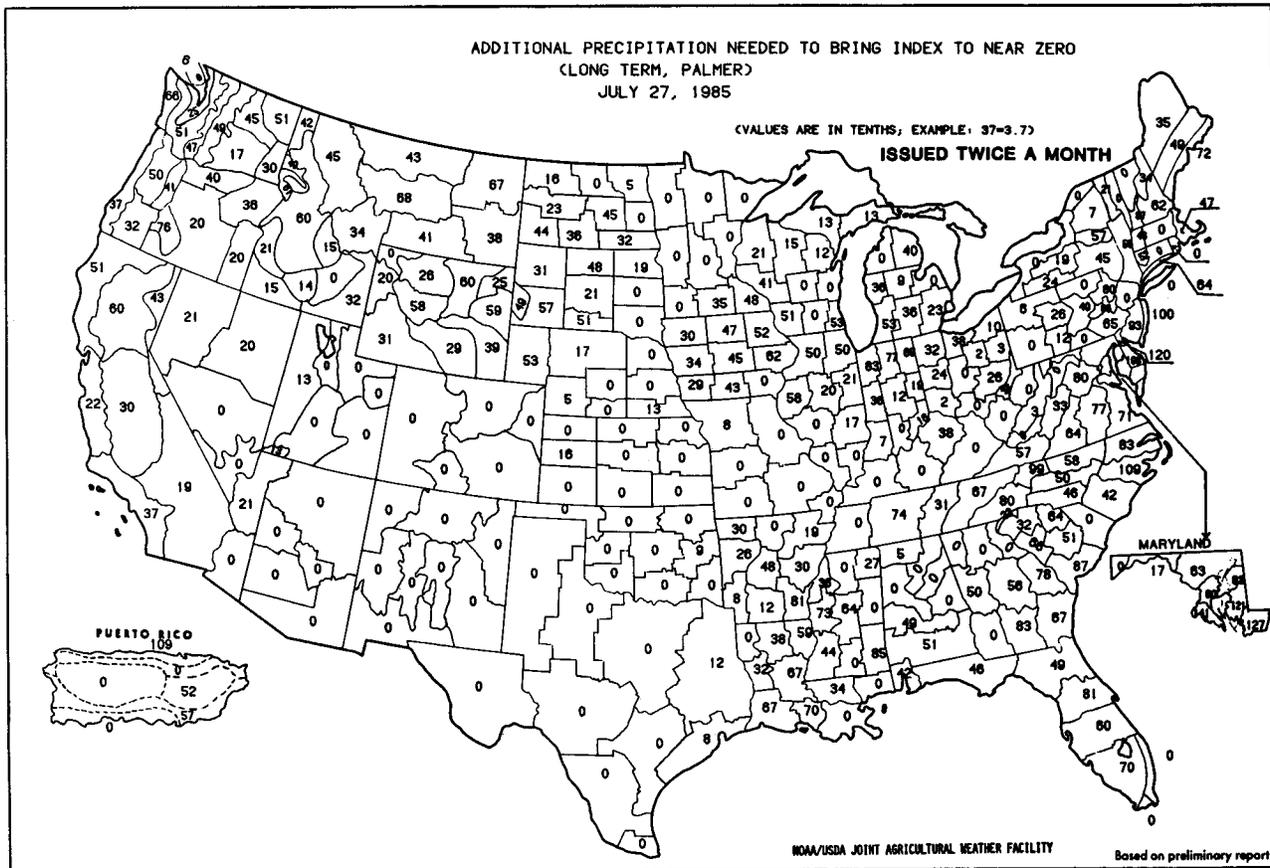


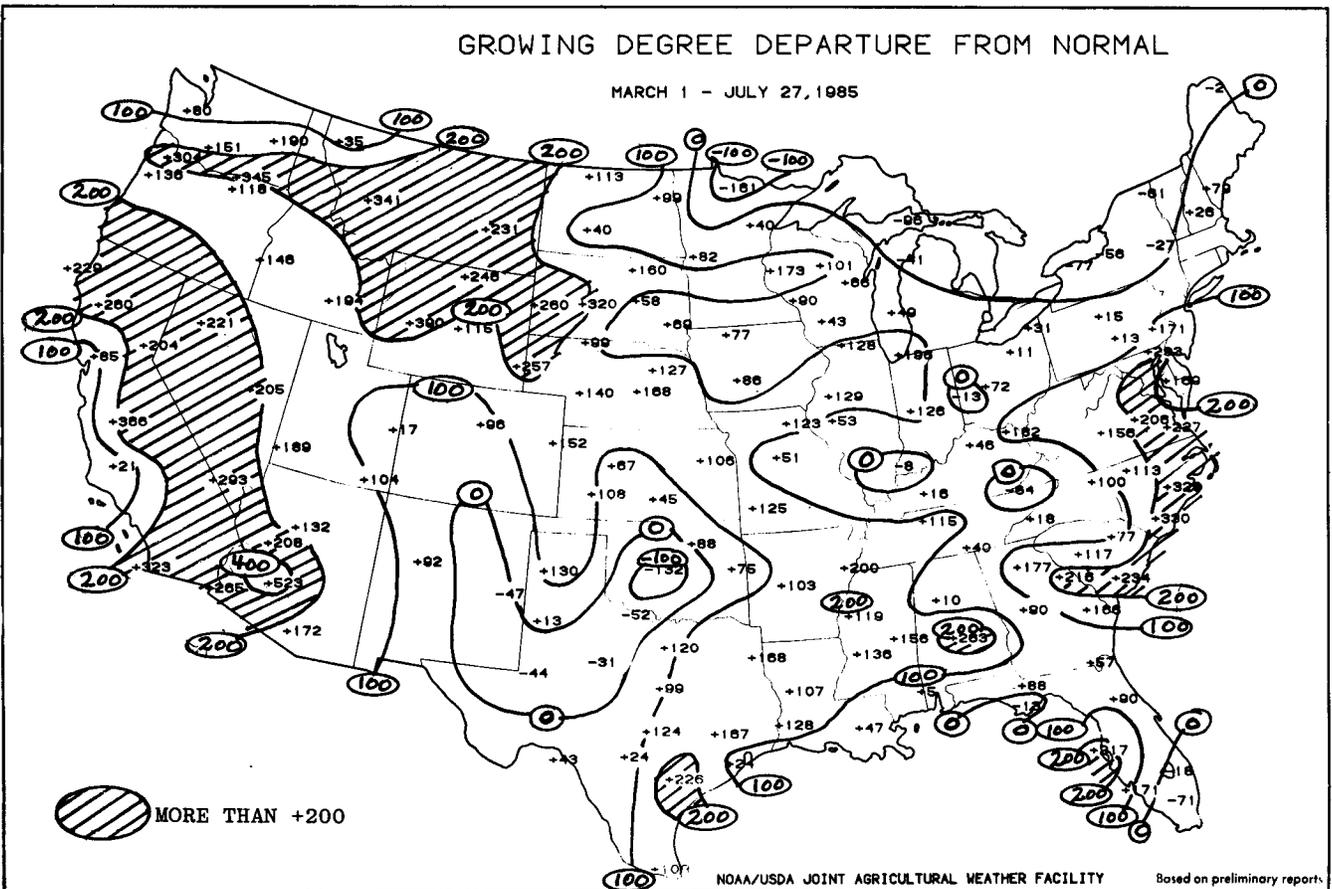
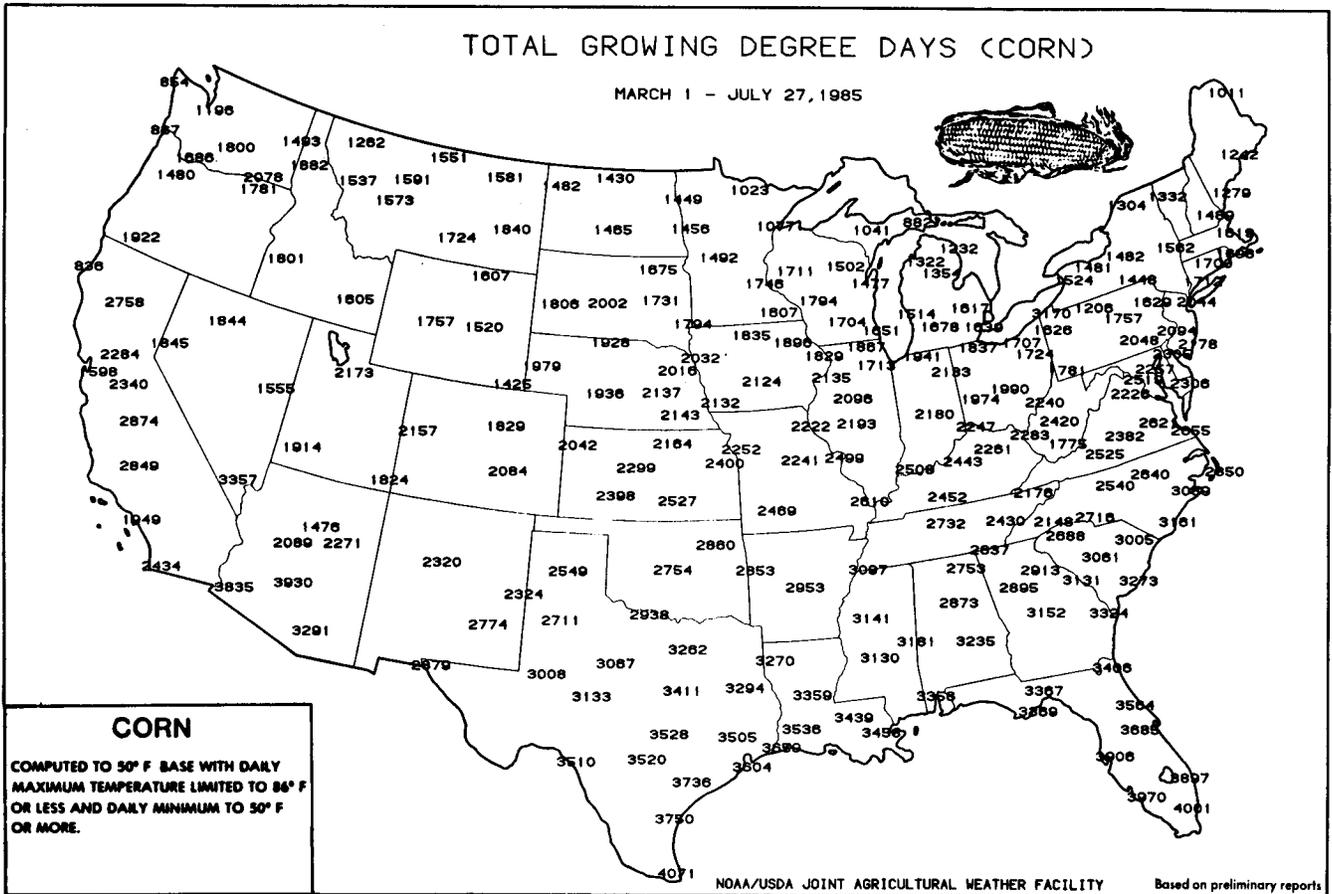
- \* SNOW
- RAIN
- ◊ RAINSHOWERS
- ⚡ THUNDERSTORMS
- ⋯ PRECIPITATION AREAS

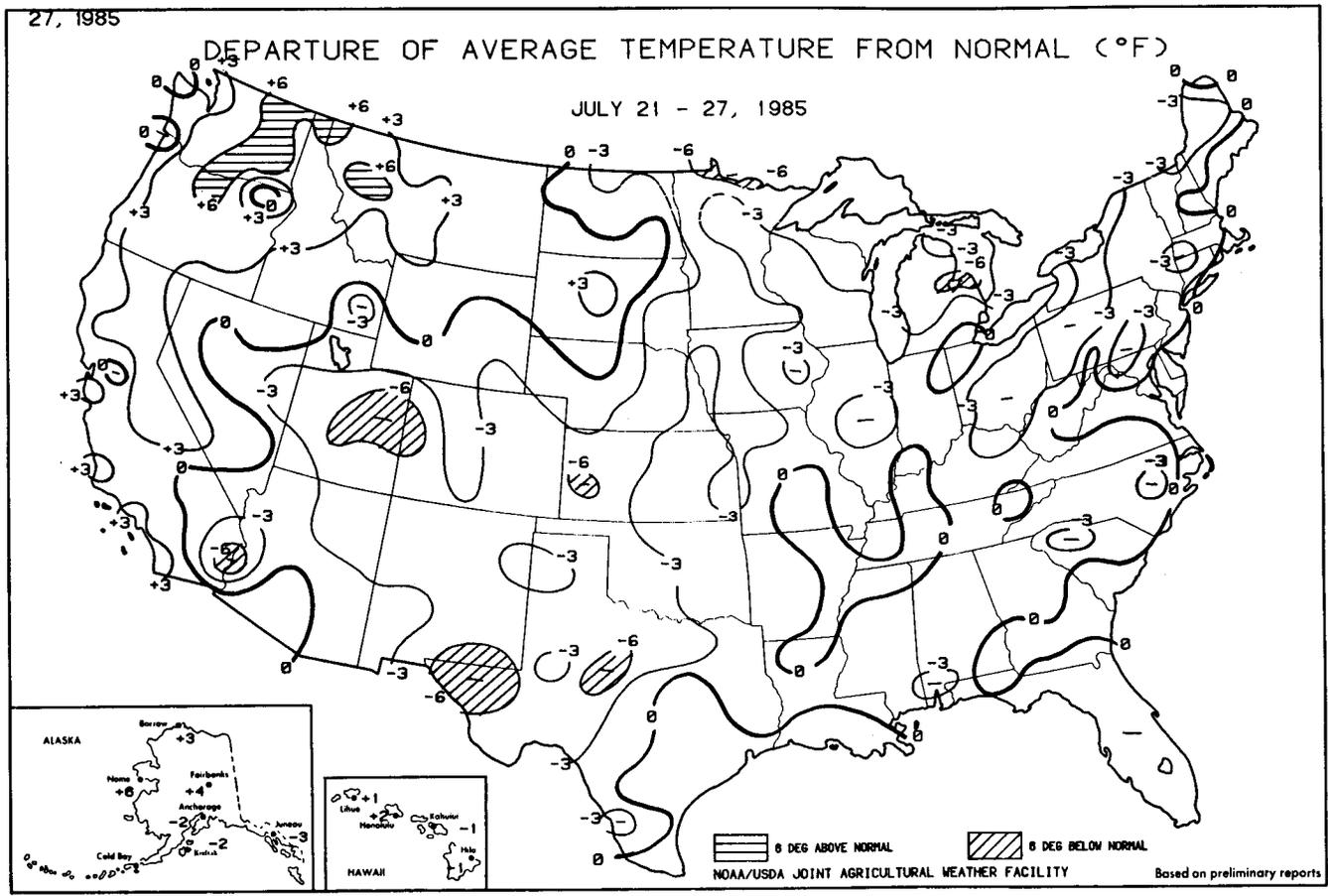
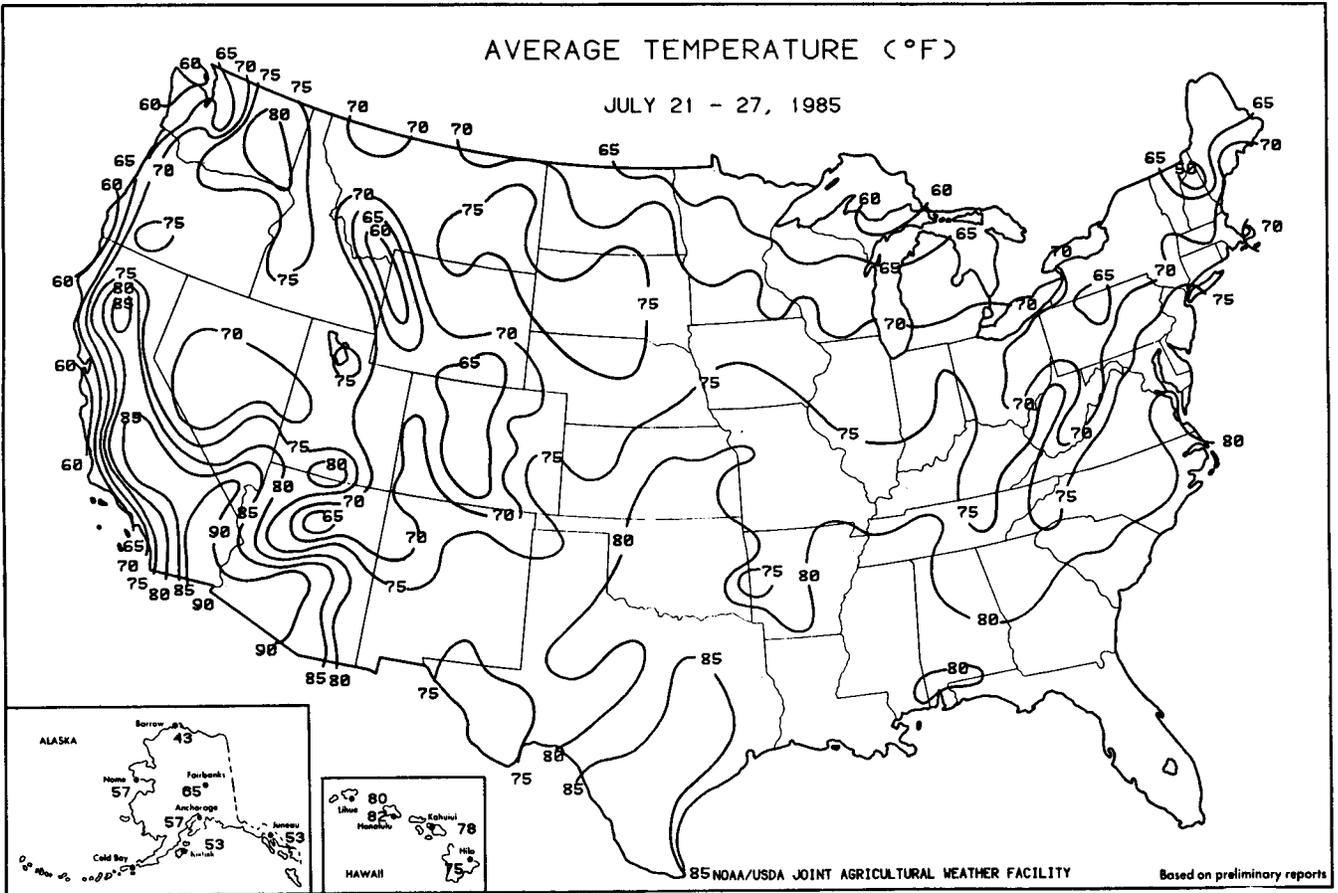












Weather Data for the Week Ending July 27

| 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 June 1 | PCT. NORMAL<br>SINCE June 1 | TOTAL, IN.,<br>SINCE JAN 1 | PCT. NORMAL<br>SINCE JAN 1 | AVERAGE<br>MAXIMUM | AVERAGE<br>MINIMUM         | 90 AND ABOVE | 32 AND BELOW   | .01 INCH<br>OR MORE | .50 INCH<br>OR MORE |  |
| AL BIRMINGHAM             | 85                 | 70                 | 93              | 68             | 78      | -3                       | 8.1                  | 6.8                      | 4.4                         | 16.8                        | 200                         | 34.8                       | 101                        | 100                | 71                         | 2            | 0              | 5                   | 4                   |  |
| MOBILE                    | 87                 | 71                 | 92              | 71             | 79      | -3                       | 3.8                  | 2.0                      | 1.3                         | 12.0                        | 101                         | 35.9                       | 93                         | 95                 | 66                         | 2            | 0              | 6                   | 3                   |  |
| MONTGOMERY                | 90                 | 73                 | 98              | 72             | 81      | -1                       | 4.9                  | 3.8                      | 2.1                         | 8.5                         | 111                         | 28.8                       | 94                         | 96                 | 59                         | 3            | 0              | 6                   | 4                   |  |
| AK ANCHORAGE              | 63                 | 51                 | 67              | 47             | 57      | -2                       | .1                   | -.4                      | .1                          | 1.9                         | 70                          | 6.2                        | 97                         | 89                 | 59                         | 0            | 0              | 3                   | 0                   |  |
| BARRON                    | 50                 | 35                 | 58              | 31             | 43      | 3                        | T                    | -.2                      | T                           | 1.1                         | 100                         | 1.7                        | 85                         | 96                 | 70                         | 0            | 1              | 0                   | 0                   |  |
| FAIRBANKS                 | 77                 | 53                 | 80              | 50             | 65      | 4                        | T                    | -.4                      | T                           | 2.9                         | 102                         | 5.2                        | 104                        | 70                 | 27                         | 0            | 0              | 0                   | 0                   |  |
| JUNEAU                    | 58                 | 48                 | 70              | 45             | 53      | -3                       | 1.3                  | .3                       | .8                          | 7.7                         | 121                         | 17.2                       | 76                         | 96                 | 67                         | 0            | 0              | 5                   | 1                   |  |
| KODIAK                    | 58                 | 47                 | 65              | 44             | 53      | -2                       | 1.2                  | .2                       | .6                          | 14.7                        | 219                         | 42.5                       | 112                        | 97                 | 76                         | 0            | 0              | 3                   | 1                   |  |
| NOME                      | 65                 | 49                 | 72              | 44             | 57      | 6                        | 0                    | -.6                      | 0                           | 2.6                         | 85                          | 6.4                        | 105                        | 92                 | 61                         | 0            | 0              | 0                   | 0                   |  |
| AZ PHOENIX                | 106                | 83                 | 110             | 80             | 94      | 1                        | 0                    | -.2                      | 0                           | .9                          | 111                         | 2.7                        | 82                         | 41                 | 15                         | 7            | 1              | 0                   | 0                   |  |
| PRESCOTT                  | 86                 | 60                 | 91              | 55             | 73      | 0                        | .2                   | -.6                      | .2                          | 1.5                         | 47                          | 6.6                        | 72                         | 75                 | 29                         | 1            | 0              | 0                   | 0                   |  |
| TUCSON                    | 99                 | 72                 | 105             | 71             | 86      | 0                        | 1.6                  | 1.0                      | 1.3                         | 2.9                         | 129                         | 6.3                        | 129                        | 64                 | 19                         | 1            | 7              | 2                   | 1                   |  |
| YUMA                      | 107                | 81                 | 111             | 80             | 94      | 0                        | 0                    | -.1                      | 0                           | T                           | 0                           | .3                         | 27                         | 59                 | 16                         | 7            | 0              | 0                   | 0                   |  |
| AR FORT SMITH             | 93                 | 71                 | 95              | 66             | 82      | -1                       | .5                   | -.2                      | .2                          | 3.9                         | 61                          | 26.0                       | 110                        | 93                 | 45                         | 7            | 0              | 4                   | 0                   |  |
| LITTLE ROCK               | 88                 | 72                 | 95              | 70             | 80      | -2                       | 1.1                  | .4                       | .6                          | 5.1                         | 86                          | 24.6                       | 86                         | 96                 | 64                         | 3            | 0              | 4                   | 1                   |  |
| CA BAKERSFIELD            | 99                 | 72                 | 102             | 69             | 86      | 2                        | 0                    | 0                        | 0                           | .4                          | 550                         | 2.0                        | 51                         | 58                 | 23                         | 7            | 0              | 0                   | 0                   |  |
| EUREKA                    | 64                 | 52                 | 68              | 49             | 58      | 2                        | .1                   | .1                       | .1                          | 1.0                         | 156                         | 11.6                       | 52                         | 96                 | 74                         | 0            | 0              | 1                   | 0                   |  |
| FRESNO                    | 102                | 72                 | 105             | 68             | 87      | 5                        | 2                    | 0                        | T                           | .4                          | 411                         | 3.4                        | 48                         | 68                 | 23                         | 7            | 0              | 0                   | 0                   |  |
| LOS ANGELES               | 75                 | 64                 | 76              | 63             | 70      | 0                        | 0                    | 0                        | 0                           | T                           | 0                           | 3.5                        | 42                         | 82                 | 56                         | 0            | 0              | 0                   | 0                   |  |
| RED BLUFF                 | 100                | 73                 | 110             | 70             | 86      | 3                        | .1                   | .1                       | .1                          | .2                          | 39                          | 5.0                        | 38                         | 58                 | 22                         | 6            | 0              | 1                   | 0                   |  |
| SACRAMENTO                | 96                 | 60                 | 105             | 58             | 78      | 2                        | 0                    | 0                        | 0                           | .2                          | 94                          | 4.4                        | 41                         | 87                 | 31                         | 7            | 0              | 0                   | 0                   |  |
| SAN DIEGO                 | 79                 | 70                 | 84              | 69             | 75      | 4                        | 0                    | 0                        | 0                           | .2                          | 267                         | 2.4                        | 39                         | 80                 | 61                         | 0            | 0              | 0                   | 0                   |  |
| SAN FRANCISCO             | 73                 | 56                 | 78              | 54             | 64      | 2                        | 0                    | 0                        | 0                           | .3                          | 229                         | 6.9                        | 55                         | 92                 | 56                         | 0            | 0              | 0                   | 0                   |  |
| CO DENVER                 | 81                 | 59                 | 88              | 56             | 70      | -4                       | 1.1                  | .7                       | .6                          | 5.0                         | 152                         | 10.9                       | 109                        | 72                 | 33                         | 0            | 0              | 3                   | 1                   |  |
| GRAND JUNCTION            | 86                 | 60                 | 93              | 56             | 73      | -7                       | .6                   | .4                       | .6                          | 1.5                         | 175                         | 6.0                        | 143                        | 82                 | 28                         | 2            | 0              | 1                   | 1                   |  |
| PUEBLO                    | 86                 | 59                 | 92              | 55             | 72      | -5                       | 2.5                  | 2.1                      | .9                          | 4.7                         | 176                         | 9.4                        | 147                        | 94                 | 39                         | 1            | 0              | 6                   | 2                   |  |
| CT BRIDGEPORT             | 82                 | 66                 | 87              | 57             | 74      | -1                       | 2.7                  | 1.9                      | 1.6                         | 8.8                         | 152                         | 19.6                       | 85                         | 80                 | 48                         | 0            | 0              | 2                   | 2                   |  |
| HARTFORD                  | 84                 | 59                 | 89              | 49             | 71      | -3                       | 1.6                  | .9                       | .7                          | 7.1                         | 117                         | 15.9                       | 65                         | 85                 | 42                         | 0            | 0              | 3                   | 2                   |  |
| DC WASHINGTON             | 87                 | 71                 | 92              | 63             | 79      | -1                       | 1.3                  | .4                       | 1.0                         | 4.6                         | 69                          | 17.5                       | 80                         | 84                 | 46                         | 2            | 0              | 3                   | 1                   |  |
| FL APALACHICOLA           | 89                 | 72                 | 91              | 71             | 81      | -1                       | .8                   | -.8                      | .8                          | 11.0                        | 100                         | 24.6                       | 87                         | 90                 | 65                         | 1            | 0              | 2                   | 1                   |  |
| DAYTONA BEACH             | 88                 | 73                 | 89              | 70             | 80      | -1                       | .8                   | -.4                      | .4                          | 9.1                         | 81                          | 18.5                       | 73                         | 93                 | 64                         | 0            | 0              | 4                   | 0                   |  |
| JACKSONVILLE              | 89                 | 73                 | 92              | 70             | 81      | -1                       | .8                   | -.8                      | .7                          | 9.3                         | 84                          | 17.9                       | 61                         | 94                 | 60                         | 3            | 0              | 3                   | 1                   |  |
| KEY WEST                  | 89                 | 78                 | 101             | 75             | 84      | -2                       | .8                   | 0                        | .4                          | 3.6                         | 43                          | 21.2                       | 118                        | 89                 | 63                         | 0            | 0              | 5                   | 0                   |  |
| MIAMI                     | 86                 | 75                 | 90              | 70             | 81      | -2                       | 3.5                  | 2.3                      | 2.7                         | 17.5                        | 122                         | 25.7                       | 86                         | 90                 | 62                         | 1            | 0              | 4                   | 2                   |  |
| ORLANDO                   | 89                 | 73                 | 93              | 71             | 81      | -2                       | 1.7                  | 0                        | 1.0                         | 11.6                        | 82                          | 23.1                       | 81                         | 96                 | 57                         | 3            | 0              | 4                   | 1                   |  |
| TALLAHASSEE               | 89                 | 72                 | 93              | 70             | 81      | -1                       | 2.4                  | .4                       | 1.3                         | 15.2                        | 107                         | 28.0                       | 72                         | 99                 | 59                         | 5            | 0              | 3                   | 2                   |  |
| TAMPA                     | 89                 | 74                 | 91              | 72             | 82      | -1                       | 2.3                  | .6                       | 1.5                         | 13.4                        | 115                         | 20.5                       | 80                         | 93                 | 58                         | 3            | 0              | 4                   | 2                   |  |
| WEST PALM BEACH           | 86                 | 75                 | 89              | 71             | 81      | -2                       | 4.4                  | 3.2                      | 2.2                         | 16.0                        | 120                         | 28.8                       | 94                         | 93                 | 63                         | 0            | 0              | 7                   | 3                   |  |
| GA ATLANTA                | 85                 | 72                 | 92              | 71             | 78      | -1                       | 3.6                  | 2.6                      | 1.5                         | 9.8                         | 129                         | 28.2                       | 90                         | 90                 | 62                         | 1            | 0              | 6                   | 3                   |  |
| AUGUSTA                   | 92                 | 72                 | 98              | 70             | 82      | 1                        | 1.2                  | .2                       | .5                          | 5.9                         | 76                          | 19.7                       | 71                         | 93                 | 53                         | 6            | 0              | 5                   | 1                   |  |
| MACON                     | 91                 | 74                 | 95              | 72             | 82      | 0                        | .8                   | -.2                      | .4                          | 5.1                         | 66                          | 19.2                       | 66                         | 87                 | 55                         | 4            | 0              | 4                   | 0                   |  |
| SAVANNAH                  | 93                 | 75                 | 96              | 73             | 84      | 2                        | .4                   | -1.3                     | .3                          | 10.5                        | 87                          | 17.9                       | 60                         | 90                 | 53                         | 6            | 0              | 4                   | 0                   |  |
| HI HILO                   | 81                 | 68                 | 82              | 62             | 75      | -1                       | 3.6                  | 1.4                      | 1.2                         | 10.9                        | 81                          | 78.3                       | 108                        | 96                 | 69                         | 0            | 0              | 6                   | 2                   |  |
| HONOLULU                  | 89                 | 74                 | 90              | 72             | 82      | 2                        | .1                   | 0                        | .1                          | .3                          | 36                          | 8.1                        | 60                         | 79                 | 45                         | 3            | 0              | 2                   | 0                   |  |
| KAHULUI                   | 87                 | 70                 | 88              | 68             | 78      | -1                       | T                    | -.1                      | T                           | .1                          | 16                          | 6.0                        | 47                         | 90                 | 53                         | 0            | 0              | 2                   | 0                   |  |
| LIHUE                     | 85                 | 75                 | 86              | 73             | 80      | 1                        | 0                    | -.5                      | 0                           | .8                          | 24                          | 15.1                       | 63                         | 74                 | 56                         | 0            | 0              | 0                   | 0                   |  |
| ID BOISE                  | 93                 | 61                 | 100             | 54             | 77      | 1                        | T                    | 0                        | T                           | .4                          | 36                          | 4.6                        | 63                         | 45                 | 13                         | 5            | 0              | 0                   | 0                   |  |
| LEWISTON                  | 95                 | 63                 | 103             | 59             | 79      | 4                        | 0                    | -.1                      | 0                           | 1.1                         | 58                          | 4.8                        | 62                         | 42                 | 14                         | 6            | 0              | 0                   | 0                   |  |
| POCATELLO                 | 87                 | 54                 | 94              | 46             | 70      | -2                       | .1                   | 0                        | .1                          | 1.3                         | 90                          | 6.0                        | 88                         | 70                 | 25                         | 4            | 0              | 1                   | 1                   |  |
| IL CHICAGO                | 83                 | 59                 | 90              | 52             | 71      | -2                       | .8                   | -.1                      | .8                          | 4.6                         | 64                          | 18.6                       | 95                         | 88                 | 41                         | 1            | 0              | 1                   | 0                   |  |
| MOLINE                    | 86                 | 61                 | 91              | 52             | 74      | -1                       | .4                   | -.7                      | .4                          | 4.0                         | 46                          | 18.0                       | 80                         | 95                 | 41                         | 1            | 0              | 1                   | 0                   |  |
| PEORIA                    | 84                 | 63                 | 88              | 58             | 73      | -2                       | .5                   | -.4                      | .3                          | 7.8                         | 106                         | 21.4                       | 102                        | 92                 | 50                         | 0            | 0              | 2                   | 0                   |  |
| QUINCY                    | 84                 | 65                 | 91              | 58             | 75      | -2                       | .2                   | -.8                      | .1                          | 4.5                         | 58                          | 16.4                       | 75                         | 97                 | 57                         | 1            | 0              | 2                   | 0                   |  |
| ROCKFORD                  | 84                 | 60                 | 88              | 51             | 72      | -2                       | .2                   | -.7                      | .2                          | 4.6                         | 54                          | 15.6                       | 72                         | 91                 | 40                         | 0            | 0              | 1                   | 0                   |  |
| SPRINGFIELD               | 84                 | 63                 | 89              | 54             | 73      | -3                       | .2                   | -.5                      | .2                          | 7.9                         | 116                         | 18.8                       | 91                         | 95                 | 55                         | 0            | 0              | 2                   | 0                   |  |
| IN EVANSVILLE             | 89                 | 69                 | 92              | 63             | 79      | 1                        | .9                   | 0                        | .7                          | 5.9                         | 84                          | 24.8                       | 95                         | 82                 | 49                         | 3            | 0              | 3                   | 1                   |  |
| FORT WAYNE                | 87                 | 63                 | 93              | 56             | 75      | 2                        | .4                   | -.4                      | .2                          | 3.9                         | 60                          | 17.2                       | 83                         | 82                 | 33                         | 2            | 0              | 2                   | 0                   |  |
| INDIANAPOLIS              | 85                 | 63                 | 88              | 56             | 74      | -1                       | .8                   | -.2                      | .7                          | 6.1                         | 78                          | 24.4                       | 102                        | 92                 | 46                         | 0            | 0              | 3                   | 1                   |  |
| SOUTH BEND                | 83                 | 60                 | 90              | 53             | 72      | -2                       | 1.7                  | .9                       | 1.7                         | 6.4                         | 90                          | 20.6                       | 96                         | 81                 | 39                         | 1            | 0              | 1                   | 1                   |  |
| IA DES MOINES             | 87                 | 65                 | 94              | 62             | 76      | -1                       | .7                   | 0                        | .6                          | 5.0                         | 71                          | 12.8                       | 69                         | 86                 | 41                         | 2            | 0              | 2                   | 1                   |  |
| SIoux CITY                | 86                 | 61                 | 89              | 56             | 74      | -2                       | .2                   | -.5                      | .2                          | 1.4                         | 20                          | 12.3                       | 77                         | 84                 | 43                         | 0            | 0              | 1                   | 0                   |  |
| WATERLOO                  | 85                 | 59                 | 87              | 53             | 72      | -1                       | 1.7                  | .7                       | .9                          | 5.7                         | 68                          | 14.2                       | 71                         | 96                 | 45                         | 0            | 0              | 2                   | 2                   |  |
| KS CONCORDIA              | 90                 | 66                 | 95              | 59             | 78      | -2                       | .7                   | 0                        | .5                          | 4.3                         | 60                          | 14.0                       | 83                         | 95                 | 41                         | 4            | 0              | 2                   | 1                   |  |
| DODGE CITY                | 88                 | 66                 | 90              | 61             | 77      | -4                       | .5                   | -.2                      | .4                          | 5.8                         | 102                         | 11.8                       | 89                         | 85                 | 42                         | 3            | 0              | 3                   | 0                   |  |
| GOODLAND                  | 83                 | 64                 | 88              | 61             | 73      | -4                       | .5                   | 0                        | .4                          | 8.4                         | 172                         | 15.0                       | 140                        | 91                 | 48                         | 0            | 0              | 3                   | 0                   |  |
| TOPEKA                    | 88                 | 67                 | 92              | 62             | 77      | -2                       | 2.1                  | 1.3                      | 1.5                         | 8.0                         | 91                          | 20.5                       | 103                        | 96                 | 52                         | 2            | 0              | 4                   | 2                   |  |
| WICHITA                   | 91                 | 69                 | 94              | 65             | 80      | -2                       | 1.0                  | .2                       | .7                          | 7.8                         | 107                         | 16.0                       | 94                         | 92                 | 43                         | 4            | 0              | 3                   | 1                   |  |
| KY BOWLING GREEN          | 88                 | 68                 | 92              | 66             | 78      | -1                       | 3.2                  | 2.3                      | 3.2                         | 7.6                         | 91                          | 20.6                       | 67                         | 95                 | 45                         | 4            | 0              | 1                   | 1                   |  |
| LEXINGTON                 | 82                 | 65                 | 88              | 62             | 74      | -3                       | 1.7                  | .6                       | 1.1                         | 8.2                         | 95                          | 21.6                       | 76                         | 93                 | 62                         | 0            | 0              | 2                   | 2                   |  |
| LOUISVILLE                | 85                 | 67                 | 90              | 63             | 76      | -2                       | .9                   | 0                        | .8                          | 7.8                         | 108                         | 22.1                       | 82                         | 94                 | 59                         | 1            | 0              | 3                   | 1                   |  |
| LA ALEXANDRIA             | 89                 | 74                 | 93              | 72             | 82      | -1                       | .4                   | -.7                      | .3                          | 9.0                         | 112                         | 29.5                       | 84                         | 97                 | 65                         | 4            | 0              | 2                   | 0                   |  |
| BATON ROUGE               | 90                 | 74                 | 92              | 72             | 82      | 0                        | .9                   | -.8                      | .8                          | 12.9                        | 139                         | 31.8                       | 94                         | 85                 | 51                         | 5            | 0              | 2                   | 1                   |  |
| LAKE CHARLES              | 93                 | 75                 | 96              | 74             | 84      | 1                        | .5                   | -.8                      | .5                          | 5.3                         | 59                          | 24.1                       | 82                         | 98                 | 56                         | 7            | 0              | 1                   | 1                   |  |
| NEW ORLEANS               | 91                 | 73                 | 92              | 72             | 82      | 0                        | 3.8                  | 2.2                      | 2.7                         | 11.5                        | 109                         | 35.8                       | 102                        | 87                 | 53                         | 6            | 0              | 5                   | 2                   |  |

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

Weather Data for the Week Ending July 27

| 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 JUNE 1 | PCT. NORMAL<br>SINCE JUNE 1 | TOTAL, IN.,<br>SINCE JAN 1 | PCT. NORMAL<br>SINCE JAN 1 | AVERAGE<br>MAXIMUM | AVERAGE<br>MINIMUM | 90 AND ABOVE | 32 AND BELOW | PRECIPITATION       |                     |
|                           |                    |                    |                 |                |         |                          |                      |                          |                             |                             |                             |                            |                            |                    |                    |              |              | .01 INCH<br>OR MORE | .50 INCH<br>OR MORE |
| SHREVEPORT                | 92                 | 75                 | 96              | 72             | 83      | 0                        | 2.7                  | 1.9                      | 1.6                         | 12.9                        | 193                         | 29.0                       | 106                        | 91                 | 54                 | 6            | 0            | 4                   | 2                   |
| ME CARIBOU                | 77                 | 55                 | 84              | 47             | 66      | 0                        | .4                   | -.5                      | .3                          | 6.7                         | 102                         | 16.6                       | 87                         | 90                 | 40                 | 0            | 0            | 2                   | 0                   |
| PORTLAND                  | 81                 | 58                 | 89              | 49             | 70      | 1                        | .5                   | -.1                      | .5                          | 4.3                         | 77                          | 13.3                       | 55                         | 83                 | 41                 | 0            | 0            | 2                   | 1                   |
| MD BALTIMORE              | 86                 | 65                 | 92              | 55             | 76      | -1                       | 1.5                  | .6                       | .7                          | 4.7                         | 66                          | 18.5                       | 78                         | 92                 | 45                 | 1            | 0            | 5                   | 2                   |
| SALISBURY                 | 87                 | 68                 | 93              | 55             | 77      | 0                        | .5                   | -.4                      | .3                          | 4.6                         | 66                          | 16.4                       | 67                         | 99                 | 56                 | 3            | 0            | 2                   | 0                   |
| MA BOSTON                 | 82                 | 66                 | 87              | 61             | 74      | 0                        | 1.3                  | .7                       | 1.0                         | 6.4                         | 124                         | 16.6                       | 68                         | 87                 | 46                 | 0            | 0            | 2                   | 1                   |
| CHATHAM                   | 76                 | 61                 | 79              | 59             | 68      | 0                        | 1.3                  | .6                       | .7                          | 9.6                         | 182                         | 24.2                       | 95                         | --                 | --                 | 0            | 0            | 3                   | 2                   |
| MI ALPENA                 | 78                 | 52                 | 87              | 42             | 65      | -2                       | .8                   | .1                       | .8                          | 3.5                         | 59                          | 16.1                       | 100                        | 93                 | 40                 | 0            | 0            | 1                   | 1                   |
| DETROIT                   | 82                 | 62                 | 91              | 52             | 72      | -1                       | .8                   | .1                       | .7                          | 5.3                         | 87                          | 21.4                       | 118                        | 88                 | 38                 | 1            | 0            | 2                   | 1                   |
| FLINT                     | 81                 | 56                 | 90              | 44             | 69      | -2                       | 1.5                  | .9                       | 1.4                         | 5.0                         | 89                          | 20.5                       | 123                        | 92                 | 39                 | 1            | 0            | 3                   | 1                   |
| GRAND RAPIDS              | 82                 | 57                 | 87              | 45             | 70      | -3                       | .7                   | .1                       | .7                          | 4.5                         | 69                          | 17.8                       | 94                         | 93                 | 39                 | 0            | 0            | 1                   | 1                   |
| HOUGHTON LAKE             | 77                 | 52                 | 83              | 38             | 65      | -3                       | 1.1                  | .4                       | 1.1                         | 3.9                         | 70                          | 15.3                       | 99                         | 91                 | 42                 | 0            | 0            | 1                   | 1                   |
| LANSING                   | 82                 | 56                 | 90              | 43             | 69      | -2                       | 1.8                  | 1.2                      | 1.8                         | 5.1                         | 86                          | 18.6                       | 109                        | 91                 | 37                 | 1            | 0            | 1                   | 1                   |
| MARQUETTE                 | 74                 | 46                 | 78              | 38             | 60      | -5                       | .5                   | -.2                      | .5                          | 5.3                         | 79                          | 25.9                       | 123                        | 94                 | 43                 | 0            | 0            | 2                   | 1                   |
| MUSKEGON                  | 78                 | 57                 | 84              | 43             | 67      | -3                       | 1.5                  | 1.0                      | 1.5                         | 4.0                         | 86                          | 16.9                       | 100                        | 86                 | 45                 | 0            | 0            | 1                   | 1                   |
| SAULT STE. MARIE          | 72                 | 48                 | 80              | 40             | 60      | -4                       | 1.5                  | .9                       | 1.1                         | 4.4                         | 76                          | 21.3                       | 125                        | 98                 | 57                 | 0            | 0            | 3                   | 1                   |
| MN ALEXANDRIA             | 79                 | 57                 | 86              | 47             | 68      | -3                       | 1.6                  | .9                       | .6                          | 5.2                         | 77                          | 14.9                       | 103                        | 90                 | 44                 | 0            | 0            | 4                   | 2                   |
| DULUTH                    | 75                 | 49                 | 80              | 40             | 62      | -4                       | .7                   | -.2                      | .7                          | 7.4                         | 99                          | 17.1                       | 103                        | 93                 | 46                 | 0            | 0            | 1                   | 1                   |
| INT'L FALLS               | 74                 | 49                 | 81              | 40             | 61      | -6                       | .7                   | -.1                      | .5                          | 7.4                         | 104                         | 19.0                       | 138                        | 92                 | 45                 | 0            | 0            | 2                   | 0                   |
| MINNEAPOLIS               | 84                 | 60                 | 89              | 54             | 72      | -2                       | 1.6                  | .9                       | 1.4                         | 4.2                         | 59                          | 15.6                       | 99                         | 77                 | 37                 | 0            | 0            | 2                   | 1                   |
| ROCHESTER                 | 82                 | 55                 | 85              | 46             | 68      | -3                       | 1.9                  | 1.0                      | 1.9                         | 3.2                         | 43                          | 10.5                       | 64                         | 78                 | 35                 | 0            | 0            | 1                   | 1                   |
| MS GREENWOOD              | 89                 | 74                 | 93              | 74             | 81      | -1                       | .4                   | -.6                      | .4                          | 3.4                         | 47                          | 17.3                       | 51                         | 99                 | 64                 | 3            | 0            | 1                   | 0                   |
| JACKSON                   | 90                 | 72                 | 94              | 70             | 81      | -1                       | 1.4                  | -.4                      | .8                          | 5.8                         | 85                          | 24.7                       | 75                         | 99                 | 57                 | 4            | 0            | 4                   | 1                   |
| MERIDIAN                  | 89                 | 70                 | 94              | 67             | 80      | -2                       | 4.3                  | 3.1                      | 3.4                         | 8.0                         | 98                          | 26.8                       | 79                         | 99                 | 57                 | 3            | 0            | 5                   | 1                   |
| MO CAPE GIRARDEAU         | 88                 | 70                 | 92              | 67             | 79      | -1                       | .3                   | -.6                      | .1                          | 4.9                         | 72                          | 29.4                       | 109                        | 95                 | 54                 | 3            | 0            | 3                   | 0                   |
| COLUMBIA                  | 86                 | 66                 | 92              | 61             | 76      | -2                       | .4                   | -.4                      | .4                          | 11.6                        | 168                         | 29.9                       | 137                        | 96                 | 50                 | 1            | 0            | 2                   | 0                   |
| KANSAS CITY               | 85                 | 66                 | 91              | 60             | 75      | -4                       | 1.5                  | .6                       | .9                          | 6.2                         | 73                          | 20.7                       | 100                        | 98                 | 56                 | 1            | 0            | 3                   | 2                   |
| SAINT LOUIS               | 87                 | 69                 | 93              | 63             | 78      | -1                       | 3.1                  | 2.4                      | 2.6                         | 12.6                        | 181                         | 29.0                       | 137                        | 94                 | 51                 | 2            | 0            | 3                   | 1                   |
| SPRINGFIELD               | 90                 | 69                 | 95              | 62             | 79      | 1                        | .6                   | -.2                      | .4                          | 8.8                         | 112                         | 28.6                       | 122                        | 93                 | 46                 | 3            | 0            | 2                   | 0                   |
| MT BILLINGS               | 91                 | 61                 | 102             | 55             | 76      | 2                        | .1                   | -.1                      | 0                           | 1.5                         | 52                          | 5.8                        | 59                         | 62                 | 17                 | 4            | 0            | 2                   | 0                   |
| GLASGOW                   | 87                 | 59                 | 102             | 53             | 73      | 2                        | .6                   | -.2                      | .6                          | .8                          | 20                          | 4.4                        | 56                         | 69                 | 21                 | 3            | 0            | 1                   | 1                   |
| GREAT FALLS               | 89                 | 55                 | 97              | 50             | 72      | 2                        | .4                   | -.2                      | .2                          | 1.1                         | 28                          | 6.2                        | 60                         | 63                 | 19                 | 3            | 0            | 2                   | 0                   |
| HAVRE                     | 89                 | 56                 | 102             | 53             | 73      | 2                        | T                    | -.2                      | T                           | .2                          | 7                           | 3.4                        | 45                         | 65                 | 18                 | 3            | 0            | 1                   | 0                   |
| HELENA                    | 93                 | 58                 | 98              | 54             | 75      | 6                        | 0                    | -.2                      | 0                           | .2                          | 5                           | 2.3                        | 31                         | 50                 | 13                 | 6            | 0            | 0                   | 0                   |
| KALISPELL                 | 89                 | 48                 | 95              | 45             | 69      | 3                        | .2                   | 0                        | .1                          | 1.8                         | 58                          | 6.3                        | 67                         | 93                 | 20                 | 3            | 0            | 2                   | 0                   |
| MILES CITY                | 91                 | 61                 | 105             | 51             | 76      | 0                        | .1                   | -.2                      | .1                          | 1.4                         | 34                          | 4.6                        | 49                         | 69                 | 18                 | 3            | 0            | 1                   | 0                   |
| MISSOULA                  | 93                 | 54                 | 100             | 51             | 74      | 6                        | 0                    | -.1                      | 0                           | .5                          | 17                          | 3.9                        | 47                         | 60                 | 14                 | 5            | 0            | 0                   | 0                   |
| NE GRAND ISLAND           | 85                 | 63                 | 86              | 57             | 74      | -3                       | .5                   | -.1                      | .5                          | 6.2                         | 101                         | 16.8                       | 110                        | 89                 | 49                 | 0            | 0            | 1                   | 2                   |
| LINCOLN                   | 85                 | 65                 | 89              | 58             | 75      | -3                       | 1.5                  | .8                       | .9                          | 9.9                         | 149                         | 18.9                       | 112                        | 97                 | 52                 | 0            | 0            | 2                   | 0                   |
| NORFOLK                   | 86                 | 61                 | 89              | 53             | 73      | -3                       | .4                   | -.2                      | .3                          | 5.7                         | 79                          | 15.9                       | 99                         | 92                 | 44                 | 0            | 0            | 2                   | 0                   |
| NORTH PLATTE              | 88                 | 60                 | 92              | 56             | 74      | -1                       | 1.3                  | -.7                      | 1.2                         | 2.8                         | 44                          | 9.8                        | 72                         | 76                 | 31                 | 3            | 0            | 3                   | 1                   |
| OMAHA                     | 85                 | 66                 | 87              | 63             | 75      | -1                       | .1                   | -.7                      | .1                          | 4.4                         | 60                          | 13.7                       | 77                         | 83                 | 57                 | 0            | 0            | 2                   | 0                   |
| SCOTT'S BLUFF             | 90                 | 59                 | 96              | 56             | 75      | 0                        | T                    | -.3                      | T                           | 2.0                         | 42                          | 5.2                        | 49                         | 86                 | 24                 | 5            | 0            | 1                   | 0                   |
| VALENTINE                 | 91                 | 62                 | 96              | 57             | 77      | 2                        | .1                   | -.5                      | .1                          | 2.6                         | 52                          | 6.1                        | 54                         | 71                 | 27                 | 5            | 0            | 1                   | 0                   |
| NV ELY                    | 84                 | 48                 | 90              | 43             | 66      | -3                       | T                    | -.1                      | 0                           | 1.0                         | 72                          | 4.5                        | 79                         | 83                 | 24                 | 1            | 0            | 3                   | 0                   |
| LAS VEGAS                 | 103                | 77                 | 106             | 73             | 90      | -1                       | T                    | -.1                      | T                           | .2                          | 37                          | .8                         | 35                         | 37                 | 13                 | 7            | 0            | 2                   | 0                   |
| RENO                      | 91                 | 56                 | 97              | 51             | 73      | 3                        | T                    | -.1                      | T                           | .1                          | 20                          | 2.1                        | 45                         | 70                 | 20                 | 4            | 0            | 0                   | 0                   |
| WINNEMUCCA                | 91                 | 55                 | 97              | 44             | 73      | 0                        | .                    | -.2                      | .1                          | .3                          | 25                          | 2.7                        | 55                         | 70                 | 18                 | 5            | 0            | 3                   | 0                   |
| NH CONCORD                | 84                 | 54                 | 89              | 42             | 69      | -1                       | .9                   | -.2                      | .8                          | 4.7                         | 86                          | 13.6                       | 69                         | 97                 | 36                 | 0            | 0            | 3                   | 1                   |
| NJ ATLANTIC CITY          | 87                 | 66                 | 92              | 54             | 76      | 1                        | 2.2                  | 1.2                      | 1.1                         | 5.4                         | 88                          | 17.5                       | 75                         | 87                 | 44                 | 2            | 0            | 5                   | 2                   |
| NM ALBUQUERQUE            | 88                 | 63                 | 90              | 60             | 75      | -4                       | T                    | -.4                      | T                           | 1.4                         | 84                          | 5.9                        | 155                        | 72                 | 25                 | 1            | 0            | 3                   | 0                   |
| CLOVIS                    | 86                 | 64                 | 94              | 61             | 75      | -3                       | .6                   | -.1                      | .3                          | 4.2                         | 87                          | E2.0                       | 128                        | 74                 | 35                 | 1            | 0            | 0                   | 0                   |
| ROSWELL                   | 88                 | 65                 | 95              | 62             | 77      | -4                       | 1.6                  | 1.2                      | 1.6                         | 3.4                         | 167                         | 8.4                        | 210                        | 91                 | 39                 | 3            | 0            | 2                   | 1                   |
| NY ALBANY                 | 83                 | 57                 | 88              | 45             | 70      | -2                       | .8                   | -.2                      | .8                          | 5.6                         | 94                          | 15.2                       | 77                         | 93                 | 42                 | 0            | 0            | 2                   | 1                   |
| BINGHAMTON                | 79                 | 57                 | 84              | 49             | 68      | -1                       | 1.1                  | -.3                      | 1.0                         | 5.7                         | 86                          | 15.6                       | 75                         | 87                 | 44                 | 0            | 0            | 2                   | 1                   |
| BUFFALO                   | 80                 | 60                 | 91              | 52             | 70      | -1                       | .1                   | -.6                      | .1                          | 4.7                         | 89                          | 21.5                       | 110                        | 80                 | 36                 | 1            | 0            | 1                   | 0                   |
| NEW YORK                  | 84                 | 68                 | 90              | 63             | 76      | -1                       | 2.4                  | 1.6                      | 1.9                         | 10.0                        | 159                         | 21.0                       | 88                         | 91                 | 51                 | 1            | 0            | 3                   | 1                   |
| ROCHESTER                 | 81                 | 56                 | 91              | 47             | 68      | -4                       | .2                   | -.3                      | .2                          | 4.3                         | 87                          | 15.4                       | 89                         | 92                 | 42                 | 1            | 0            | 1                   | 0                   |
| SYRACUSE                  | 81                 | 57                 | 90              | 46             | 69      | -2                       | .5                   | -.4                      | .5                          | 4.9                         | 71                          | 16.1                       | 74                         | 90                 | 43                 | 1            | 0            | 1                   | 0                   |
| NC ASHEVILLE              | 80                 | 65                 | 89              | 63             | 72      | -1                       | 1.3                  | -.3                      | .4                          | 4.3                         | 53                          | 17.1                       | 60                         | 99                 | 69                 | 0            | 0            | 6                   | 0                   |
| CHARLOTTE                 | 85                 | 70                 | 95              | 68             | 78      | -1                       | 1.8                  | -.9                      | .7                          | 8.8                         | 125                         | 25.7                       | 97                         | 97                 | 65                 | 2            | 0            | 5                   | 2                   |
| GREENSBORO                | 84                 | 68                 | 94              | 66             | 76      | -2                       | 2.9                  | 1.9                      | 1.4                         | 5.9                         | 77                          | 20.0                       | 80                         | 96                 | 59                 | 2            | 0            | 5                   | 2                   |
| HATTERAS                  | 86                 | 77                 | 88              | 74             | 82      | 3                        | .1                   | -.2                      | .1                          | 6.6                         | 75                          | 23.3                       | 81                         | 93                 | 70                 | 0            | 0            | 2                   | 0                   |
| NEW BERN                  | 89                 | 73                 | 94              | 71             | 81      | 1                        | 2.4                  | .9                       | 1.4                         | 9.3                         | 84                          | 23.3                       | 78                         | 95                 | 64                 | 2            | 0            | 4                   | 1                   |
| RALEIGH                   | 84                 | 70                 | 93              | 68             | 77      | -1                       | 3.3                  | 2.3                      | 1.8                         | 9.0                         | 121                         | 23.9                       | 97                         | 88                 | 62                 | 2            | 0            | 6                   | 2                   |
| WILMINGTON                | 88                 | 74                 | 93              | 71             | 81      | 0                        | 4.8                  | 3.1                      | 1.9                         | 12.1                        | 99                          | 24.3                       | 80                         | 96                 | 65                 | 3            | 0            | 4                   | 3                   |
| ND BISMARCK               | 86                 | 54                 | 95              | 47             | 70      | -1                       | T                    | -.4                      | T                           | 1.9                         | 38                          | 8.8                        | 85                         | 84                 | 29                 | 2            | 0            | 0                   | 1                   |
| FARGO                     | 80                 | 55                 | 93              | 48             | 68      | -3                       | 1.4                  | .6                       | .8                          | 5.0                         | 84                          | 12.3                       | 103                        | 95                 | 42                 | 1            | 0            | 4                   | 1                   |
| GRAND FORKS               | 79                 | 52                 | 85              | 45             | 65      | -4                       | .2                   | -.5                      | .1                          | 2.8                         | 51                          | 9.7                        | 91                         | 83                 | 38                 | 0            | 0            | 3                   | 0                   |
| WILLISTON                 | 83                 | 57                 | 101             | 51             | 70      | -1                       | .6                   | -.2                      | .6                          | 2.5                         | 57                          | 6.5                        | 71                         | 70                 | 27                 | 1            | 0            | 1                   | 0                   |
| OH AKRON-CANTON           | 79                 | 58                 | 86              | 50             | 69      | -3                       | .1                   | -.8                      | .1                          | 4.8                         | 71                          | 20.5                       | 94                         | 93                 | 52                 | 0            | 0            | 2                   | 1                   |
| CINCINNATI                | 84                 | 66                 | 90              | 58             | 75      | -1                       | 1.5                  | .6                       | .9                          | 7.5                         | 95                          | 25.8                       | 103                        | 86                 | 49                 | 1            | 0            | 4                   | 1                   |
| CLEVELAND                 | 80                 | 59                 | 88              | 51             | 70      | -2                       | .3                   | -.4                      | .3                          | 4.8                         | 75                          | 19.0                       | 92                         | 88                 | 46                 | 0            | 0            | 1                   | 0                   |
| COLUMBUS                  | 82                 | 60                 | 87              | 53             | 71      | -3                       | 1.2                  | .3                       | .9                          | 7.9                         | 105                         | 20.3                       | 89                         | 91                 | 53                 | 0            | 0            | 2                   | 1                   |

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

Weather Data for the Week Ending July 27

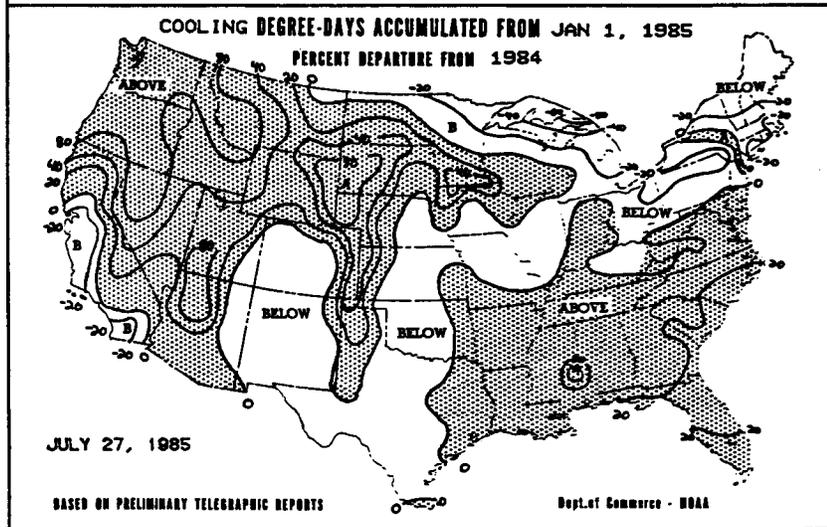
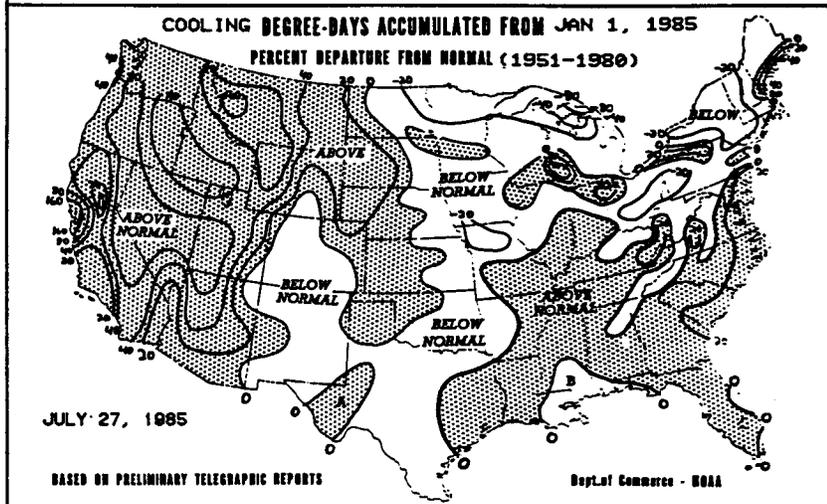
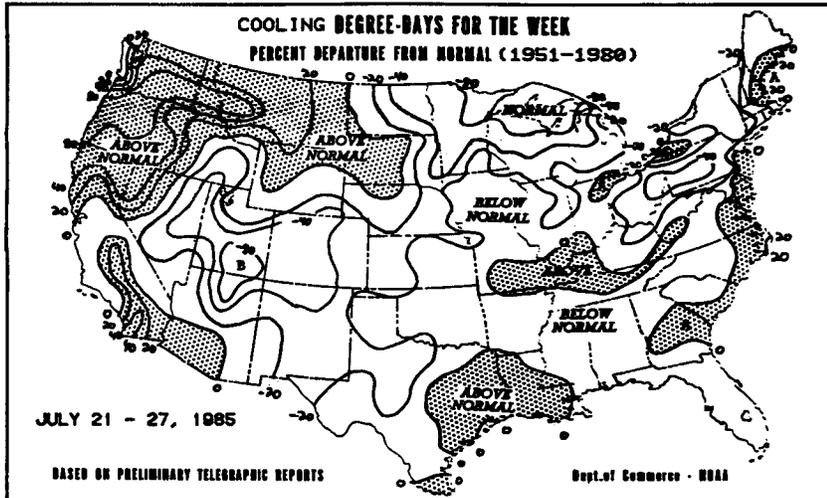
| STATES<br>AND<br>STATIONS | TEMPERATURE °F  |                 |              |             |         |                       | PRECIPITATION     |                       |                          |                          |                          |                         | RELATIVE HUMIDITY, PERCENT |                 | NUMBER OF DAYS  |              |              |                  |                  |
|---------------------------|-----------------|-----------------|--------------|-------------|---------|-----------------------|-------------------|-----------------------|--------------------------|--------------------------|--------------------------|-------------------------|----------------------------|-----------------|-----------------|--------------|--------------|------------------|------------------|
|                           | AVERAGE MAXIMUM | AVERAGE MINIMUM | EXTREME HIGH | EXTREME LOW | AVERAGE | DEPARTURE FROM NORMAL | WEEKLY TOTAL, IN. | DEPARTURE FROM NORMAL | GREATEST IN 24-HOUR, IN. | TOTAL, IN., SINCE JUNE 1 | PCT. NORMAL SINCE JUNE 1 | TOTAL, IN., SINCE JAN 1 | PCT. NORMAL SINCE JAN 1    | AVERAGE MAXIMUM | AVERAGE MINIMUM | 90 AND ABOVE | 32 AND BELOW | .01 INCH OR MORE | .50 INCH OR MORE |
| DAYTON                    | 83              | 60              | 88           | 52          | 71      | -4                    | .7                | -.1                   | .4                       | 4.0                      | 59                       | 18.8                    | 87                         | 86              | 46              | 0            | 0            | 2                | 0                |
| TOLEDO                    | 85              | 60              | 92           | 50          | 72      | 0                     | .7                | 0                     | .7                       | 6.3                      | 99                       | 20.4                    | 109                        | 92              | 45              | 0            | 0            | 2                | 1                |
| YOUNGSTOWN                | 79              | 55              | 87           | 49          | 67      | -4                    | .3                | -.6                   | .2                       | 7.2                      | 102                      | 19.8                    | 90                         | 96              | 54              | 2            | 0            | 3                | 0                |
| OK OKLAHOMA CITY          | 89              | 71              | 93           | 66          | 80      | -3                    | 1.5               | -.1                   | .4                       | 9.5                      | 144                      | 27.6                    | 143                        | 85              | 46              | 4            | 0            | 2                | 0                |
| TULSA                     | 91              | 72              | 96           | 66          | 82      | -2                    | 1.6               | .9                    | 1.6                      | 10.0                     | 130                      | 32.1                    | 138                        | 94              | 43              | 4            | 0            | 3                | 1                |
| OR ASTORIA                | 68              | 53              | 73           | 47          | 60      | -1                    | T                 | -.2                   | T                        | 3.1                      | 92                       | 19.7                    | 53                         | 98              | 71              | 0            | 0            | 0                | 0                |
| BURNS                     | 90              | 53              | 96           | 43          | 71      | 0                     | 0                 | -.1                   | 0                        | .1                       | 11                       | 3.4                     | 94                         | 11              | 4               | 0            | 0            | 0                | 0                |
| MEDFORD                   | 98              | 60              | 105          | 55          | 79      | 5                     | 0                 | -.1                   | 0                        | .4                       | 42                       | 4.8                     | 46                         | 64              | 17              | 6            | 0            | 0                | 0                |
| PENDLETON                 | 93              | 64              | 98           | 58          | 78      | 3                     | 0                 | -.1                   | 0                        | .8                       | 78                       | 4.4                     | 64                         | 41              | 14              | 6            | 0            | 0                | 0                |
| PORTLAND                  | 87              | 60              | 94           | 57          | 73      | 5                     | 0                 | -.1                   | 0                        | 2.3                      | 126                      | 9.8                     | 49                         | 80              | 32              | 2            | 0            | 0                | 0                |
| SALEM                     | 89              | 54              | 95           | 49          | 71      | 4                     | 0                 | -.1                   | 0                        | 2.4                      | 158                      | 11.4                    | 52                         | 87              | 28              | 4            | 0            | 0                | 0                |
| PA ALLENTOWN              | 84              | 64              | 88           | 53          | 74      | 0                     | 3.8               | 2.9                   | 2.9                      | 10.9                     | 155                      | 21.6                    | 87                         | 92              | 48              | 0            | 0            | 5                | 2                |
| ERIE                      | 79              | 62              | 90           | 53          | 71      | 1                     | .2                | -.5                   | .2                       | 7.9                      | 121                      | 22.9                    | 110                        | 84              | 50              | 1            | 0            | 5                | 0                |
| HARRISBURG                | 84              | 66              | 88           | 57          | 75      | -1                    | 1.3               | .6                    | 1.0                      | 5.0                      | 77                       | 19.3                    | 85                         | 90              | 48              | 0            | 0            | 5                | 1                |
| PHILADELPHIA              | 85              | 65              | 90           | 57          | 75      | -2                    | 1.5               | .7                    | .5                       | 6.4                      | 87                       | 17.8                    | 75                         | 92              | 50              | 1            | 0            | 5                | 0                |
| PITTSBURGH                | 80              | 58              | 85           | 50          | 69      | -4                    | 2.0               | 1.1                   | 1.0                      | 6.3                      | 94                       | 19.9                    | 89                         | 83              | 47              | 0            | 0            | 2                | 2                |
| SCRANTON                  | 80              | 60              | 85           | 49          | 70      | -2                    | 1.9               | 1.2                   | 1.5                      | 7.7                      | 121                      | 20.2                    | 104                        | 93              | 51              | 0            | 0            | 3                | 1                |
| RI PROVIDENCE             | 82              | 63              | 86           | 56          | 73      | 0                     | 1.8               | 1.1                   | .9                       | 7.5                      | 141                      | 20.1                    | 81                         | 89              | 48              | 0            | 0            | 3                | 2                |
| SC CHARLESTON             | 87              | 74              | 92           | 72          | 81      | 0                     | 5.8               | 4.1                   | 4.6                      | 16.6                     | 128                      | 25.5                    | 82                         | 95              | 65              | 3            | 0            | 5                | 2                |
| COLUMBIA                  | 89              | 70              | 96           | 69          | 79      | -2                    | 3.6               | 2.4                   | 1.0                      | 10.9                     | 120                      | 26.3                    | 87                         | 100             | 56              | 3            | 0            | 6                | 4                |
| FLORENCE                  | 89              | 71              | 96           | 70          | 80      | -1                    | 4.0               | 2.7                   | 3.1                      | 8.3                      | 85                       | 19.0                    | 71                         | 99              | 58              | 2            | 0            | 6                | 1                |
| GREENVILLE                | 83              | 69              | 92           | 66          | 76      | -3                    | 2.6               | 1.8                   | 1.1                      | 9.1                      | 109                      | 23.2                    | 74                         | 98              | 65              | 2            | 0            | 5                | 2                |
| SD ABERDEEN               | 86              | 61              | 94           | 52          | 74      | 1                     | .9                | .4                    | .5                       | 3.9                      | 72                       | 9.5                     | 79                         | 85              | 34              | 2            | 0            | 3                | 1                |
| HURON                     | 84              | 59              | 93           | 53          | 72      | -3                    | 1.1               | .6                    | .5                       | 6.6                      | 125                      | 14.6                    | 118                        | 93              | 42              | 2            | 0            | 3                | 1                |
| RAPID CITY                | 91              | 58              | 98           | 49          | 75      | 1                     | 1.1               | -.4                   | 0                        | 2.1                      | 41                       | 5.7                     | 48                         | 70              | 24              | 4            | 0            | 2                | 0                |
| SIOUX FALLS               | 83              | 57              | 87           | 50          | 70      | -5                    | 1.4               | .8                    | 1.3                      | 5.1                      | 84                       | 16.5                    | 113                        | 87              | 49              | 0            | 0            | 2                | 1                |
| TN CHATTANOOGA            | 85              | 71              | 96           | 68          | 78      | -1                    | 1.0               | -.1                   | .4                       | 4.3                      | 59                       | 22.2                    | 69                         | 98              | 67              | 2            | 0            | 5                | 0                |
| KNOXVILLE                 | 87              | 69              | 98           | 67          | 78      | 0                     | .8                | -.2                   | .5                       | 7.1                      | 91                       | 21.0                    | 71                         | 97              | 57              | 2            | 0            | 2                | 0                |
| MEMPHIS                   | 89              | 74              | 95           | 72          | 82      | -1                    | 3.0               | 2.1                   | 2.4                      | 8.1                      | 114                      | 29.7                    | 92                         | 96              | 59              | 3            | 0            | 3                | 1                |
| NASHVILLE                 | 89              | 71              | 96           | 69          | 80      | 0                     | 1.0               | .1                    | .8                       | 3.4                      | 48                       | 18.0                    | 60                         | 92              | 52              | 5            | 0            | 3                | 1                |
| TX ABILENE                | 87              | 69              | 94           | 67          | 78      | -6                    | 1.5               | 1.0                   | .9                       | 3.5                      | 80                       | 13.3                    | 102                        | 92              | 54              | 2            | 0            | 6                | 1                |
| AMARILLO                  | 89              | 65              | 94           | 63          | 77      | -2                    | 1.8               | 1.2                   | 1.7                      | 5.0                      | 85                       | 11.8                    | 102                        | 85              | 38              | 4            | 0            | 4                | 1                |
| AUSTIN                    | 96              | 75              | 98           | 74          | 86      | 1                     | 0                 | -.4                   | 0                        | 7.2                      | 152                      | 16.5                    | 93                         | 91              | 37              | 7            | 0            | 0                | 0                |
| BEAUMONT                  | 93              | 73              | 96           | 71          | 83      | 0                     | .3                | -1.0                  | .2                       | 7.8                      | 90                       | 29.1                    | 104                        | 100             | 55              | 7            | 0            | 2                | 0                |
| BROWNSVILLE               | 93              | 77              | 94           | 73          | 85      | 1                     | T                 | -.3                   | T                        | 10.7                     | 267                      | 19.3                    | 175                        | 95              | 52              | 7            | 0            | 1                | 0                |
| CORPUS CHRISTI            | 93              | 74              | 94           | 72          | 84      | -1                    | 0                 | -.4                   | 0                        | 5.0                      | 99                       | 18.8                    | 133                        | 88              | 49              | 7            | 0            | 0                | 0                |
| DEL RIO                   | 94              | 73              | 95           | 71          | 83      | -3                    | T                 | -.3                   | T                        | 6.2                      | 192                      | 13.4                    | 147                        | 86              | 31              | 7            | 0            | 1                | 0                |
| EL PASO                   | 89              | 64              | 95           | 59          | 77      | -6                    | 1.2               | .8                    | .8                       | 1.4                      | 70                       | 3.2                     | 91                         | 95              | 35              | 2            | 0            | 4                | 1                |
| FORT WORTH                | 91              | 74              | 97           | 71          | 83      | -4                    | 1.8               | 1.4                   | 1.8                      | 6.7                      | 154                      | 19.8                    | 108                        | 87              | 52              | 4            | 0            | 1                | 1                |
| GALVESTON                 | 88              | 78              | 91           | 76          | 83      | -1                    | 0                 | -.9                   | 0                        | 10.3                     | 152                      | 27.5                    | 137                        | 88              | 64              | 1            | 0            | 0                | 0                |
| HOUSTON                   | 94              | 74              | 96           | 71          | 84      | 1                     | 0                 | -.7                   | 0                        | 10.2                     | 146                      | 28.1                    | 112                        | 95              | 47              | 7            | 0            | 0                | 0                |
| LUBBOCK                   | 88              | 65              | 92           | 63          | 76      | -3                    | 3.5               | 3.0                   | 2.7                      | 8.7                      | 178                      | 14.0                    | 135                        | 94              | 46              | 3            | 0            | 4                | 2                |
| MIDLAND                   | 91              | 68              | 95           | 66          | 80      | -2                    | .3                | -.1                   | .1                       | 3.1                      | 106                      | 6.4                     | 86                         | 91              | 39              | 5            | 0            | 4                | 0                |
| SAN ANGELO                | 88              | 70              | 94           | 66          | 79      | -5                    | .9                | .6                    | .6                       | 4.4                      | 150                      | 12.4                    | 131                        | 95              | 51              | 4            | 0            | 3                | 1                |
| SAN ANTONIO               | 95              | 75              | 97           | 73          | 85      | 0                     | 0                 | -.4                   | 0                        | 13.8                     | 294                      | 27.0                    | 170                        | 87              | 38              | 7            | 0            | 0                | 0                |
| VICTORIA                  | 94              | 76              | 98           | 74          | 85      | 0                     | 0                 | -.5                   | 0                        | 8.2                      | 121                      | 28.7                    | 148                        | 97              | 46              | 7            | 0            | 0                | 0                |
| WACO                      | 100             | 75              | 102          | 73          | 88      | 1                     | T                 | -.4                   | T                        | 6.3                      | 151                      | 16.5                    | 90                         | 83              | 35              | 7            | 0            | 2                | 0                |
| WICHITA FALLS             | 93              | 70              | 96           | 68          | 81      | -5                    | .1                | -.3                   | .1                       | 7.2                      | 156                      | 22.5                    | 143                        | 85              | 42              | 7            | 0            | 2                | 0                |
| UT BLANDING               | 83              | 57              | 88           | 54          | 70      | -4                    | 2.6               | 2.3                   | 1.7                      | 2.9                      | 237                      | 8.7                     | 158                        | 83              | 36              | 0            | 0            | 4                | 1                |
| CEDAR CITY                | 88              | 57              | 92           | 52          | 72      | -3                    | T                 | -.3                   | T                        | 1.0                      | 70                       | 5.8                     | 102                        | 77              | 23              | 3            | 0            | 1                | 0                |
| SALT LAKE CITY            | 90              | 65              | 97           | 60          | 77      | -2                    | .3                | -.1                   | .3                       | 2.1                      | 136                      | 9.3                     | 96                         | 73              | 26              | 3            | 0            | 2                | 0                |
| VT BURLINGTON             | 80              | 57              | 88           | 47          | 69      | -1                    | .3                | -.5                   | .3                       | 7.3                      | 111                      | 17.9                    | 99                         | 83              | 38              | 0            | 0            | 1                | 0                |
| VA NORFOLK                | 86              | 72              | 93           | 70          | 79      | 0                     | 1.0               | -.3                   | .4                       | 10.5                     | 133                      | 23.7                    | 93                         | 89              | 58              | 2            | 0            | 6                | 0                |
| RICHMOND                  | 89              | 69              | 96           | 60          | 79      | 1                     | 2.0               | .8                    | 1.4                      | 8.5                      | 106                      | 20.2                    | 83                         | 94              | 47              | 3            | 0            | 5                | 1                |
| ROANOKE                   | 83              | 67              | 94           | 62          | 75      | -1                    | 1.8               | 1.0                   | 1.3                      | 6.0                      | 96                       | 22.7                    | 100                        | 85              | 53              | 2            | 0            | 5                | 1                |
| WA COLVILLE               | 93              | 57              | 101          | 52          | 75      | 6                     | 0                 | -.2                   | 0                        | 1.5                      | 69                       | 6.2                     | 64                         | 50              | 15              | 6            | 0            | 0                | 0                |
| QUILLAYUTE                | 68              | 50              | 75           | 39          | 59      | -1                    | T                 | -.5                   | T                        | 2.5                      | 50                       | 27.9                    | 50                         | 98              | 61              | 0            | 0            | 1                | 0                |
| SEATTLE-TACOMA            | 80              | 56              | 86           | 54          | 68      | 2                     | T                 | -.1                   | T                        | 2.9                      | 143                      | 10.8                    | 55                         | 84              | 37              | 0            | 0            | 0                | 0                |
| SPOKANE                   | 91              | 59              | 97           | 54          | 75      | 4                     | 0                 | -.1                   | 0                        | .7                       | 41                       | 4.8                     | 50                         | 47              | 14              | 5            | 0            | 0                | 0                |
| YAKIMA                    | 95              | 59              | 99           | 50          | 77      | 6                     | 0                 | 0                     | 0                        | .4                       | 52                       | 2.2                     | 49                         | 56              | 17              | 7            | 0            | 0                | 0                |
| WV BECKLEY                | 78              | 62              | 82           | 61          | 70      | 0                     | .8                | -.2                   | .4                       | 6.8                      | 88                       | 21.3                    | 82                         | 95              | 62              | 0            | 0            | 3                | 0                |
| CHARLESTON                | 84              | 66              | 90           | 60          | 75      | 0                     | .5                | -.8                   | .3                       | 6.0                      | 75                       | 23.3                    | 90                         | 87              | 55              | 1            | 0            | 4                | 0                |
| HUNTINGTON                | 81              | 64              | 86           | 59          | 73      | -3                    | .9                | -.1                   | .6                       | 8.5                      | 113                      | 24.1                    | 96                         | 95              | 61              | 0            | 0            | 3                | 1                |
| PARKERSBURG               | 82              | 62              | 89           | 57          | 72      | -3                    | .2                | -.8                   | .2                       | 3.3                      | 39                       | 17.4                    | 65                         | 96              | 54              | 0            | 0            | 2                | 2                |
| WI GREEN BAY              | 80              | 54              | 87           | 46          | 67      | -3                    | 2.1               | 1.4                   | 1.4                      | 6.3                      | 104                      | 17.2                    | 108                        | 92              | 44              | 0            | 0            | 1                | 1                |
| LA CROSSE                 | 84              | 57              | 88           | 50          | 71      | -3                    | .9                | .1                    | .9                       | 4.0                      | 53                       | 12.8                    | 71                         | 90              | 38              | 0            | 0            | 1                | 1                |
| MADISON                   | 82              | 55              | 88           | 46          | 69      | -3                    | 3.7               | 2.8                   | 2.7                      | 7.3                      | 102                      | 18.6                    | 104                        | 93              | 48              | 0            | 0            | 2                | 2                |
| MILWAUKEE                 | 80              | 61              | 90           | 55          | 70      | -1                    | .7                | -.1                   | .7                       | 3.0                      | 45                       | 16.0                    | 87                         | 93              | 46              | 1            | 0            | 1                | 1                |
| WAUSAU                    | 80              | 55              | 82           | 47          | 67      | -3                    | 1.1               | .2                    | 1.1                      | 4.8                      | 66                       | 13.6                    | 76                         | 92              | 39              | 0            | 0            | 1                | 1                |
| WY CASPER                 | 88              | 55              | 93           | 48          | 71      | -1                    | .2                | 0                     | .1                       | 1.9                      | 87                       | 6.4                     | 81                         | 76              | 18              | 2            | 0            | 2                | 0                |
| CHEYENNE                  | 79              | 55              | 86           | 53          | 67      | -3                    | 1.5               | 1.1                   | .8                       | 5.0                      | 138                      | 8.3                     | 92                         | 88              | 38              | 0            | 0            | 4                | 2                |
| LANDER                    | 86              | 59              | 92           | 54          | 73      | 1                     | 1.1               | 0                     | .1                       | 2.0                      | 95                       | 4.8                     | 53                         | 59              | 20              | 2            | 0            | 1                | 0                |
| SHERIDAN                  | 90              | 53              | 97           | 44          | 71      | 0                     | T                 | -.1                   | T                        | 1.8                      | 59                       | 5.9                     | 58                         | 70              | 19              | 4            | 0            | 1                | 0                |
| PR SAN JUAN               | 89              | 77              | 90           | 75          | 83      | 1                     | .2                | -1.0                  | .1                       | 3.1                      | 35                       | 17.0                    | 67                         | 92              | 63              | 3            | 0            | 4                | 0                |

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

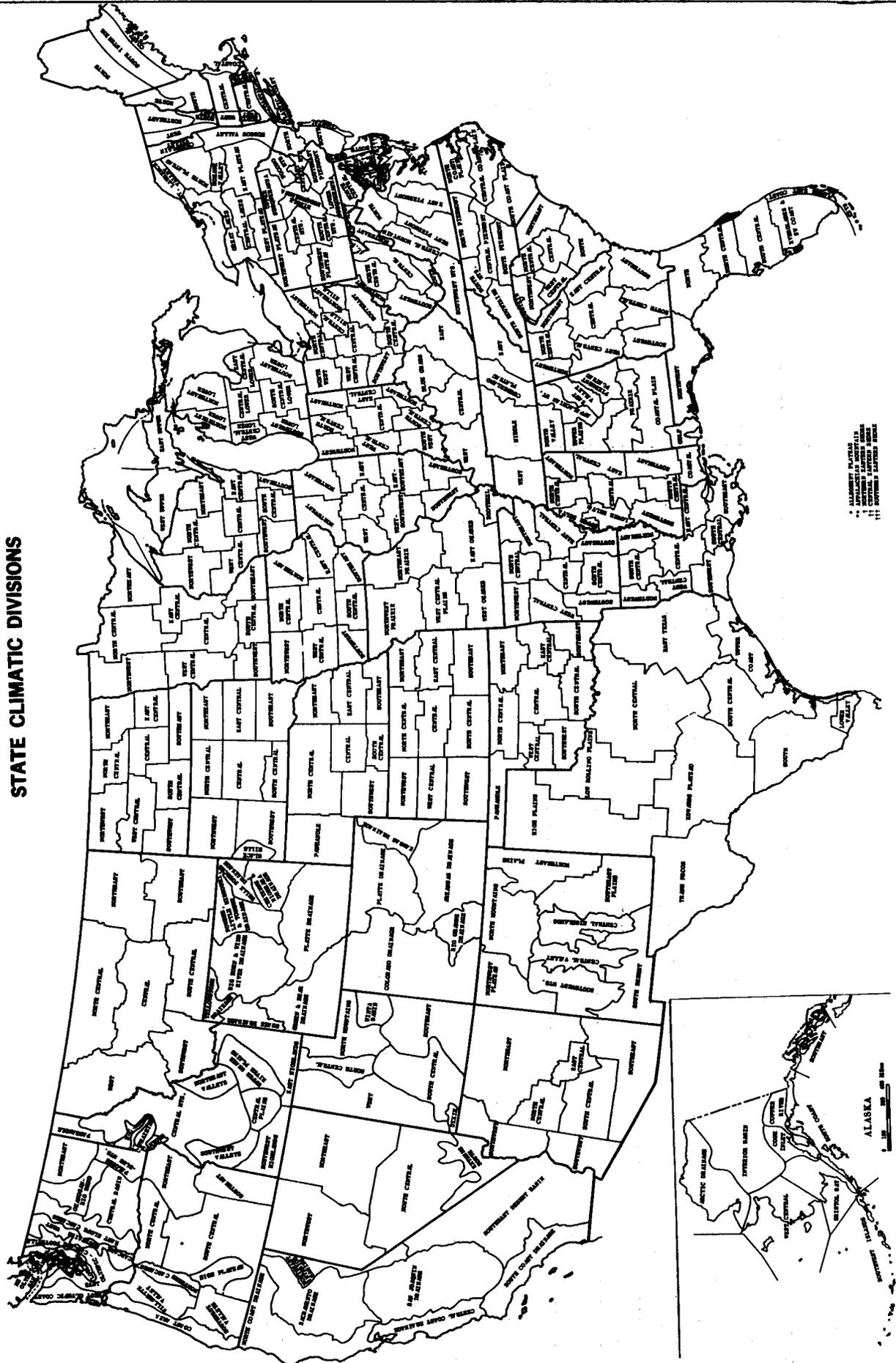
COOLING DEGREE DAY DATA WEEKLY SUMMARY
CLIMATE ANALYSIS CENTER-MWC-NOAA
ASSESSMENT AND INFORMATION SERVICES CENTER-NEOSDIS-NOAA

LAST DATE OF DATA COLLECTION PERIOD IS 7-27-1985
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, CUM CUM CUM CUM CUM. Rows list various states and cities with associated weather data.



STATE CLIMATIC DIVISIONS



## National Agricultural Summary

JULY 22 to 28

**HIGHLIGHTS:** Scattered showers and below-normal temperatures relieved stress and benefited crop, especially over the eastern half of the Nation. Overall crop conditions remained fair to mostly good. Topsoil moisture remained short over most of the Nation except in the Southeast along the path of Hurricane Bob. Soil moisture in these areas returned to more normal levels. Fieldwork averaged 6 days or more in the Northeast, the Corn Belt, and in the western States. Rain held fieldwork to 5 days or less elsewhere.

Winter wheat was 87% harvested in the 18 major producing States, 5 and 4 points ahead of last year and the average, respectively. Harvest was complete or neared completion in all areas except for northwestern States. Spring wheat was 7% harvested, 5 points ahead of 1984 and 1 point ahead of the average. Corn was fair to mostly good with 77% of the acreage silking and 16% now in the dough stage. Soybeans were fair to mostly good with 67% of the acreage blooming and slightly more than one-fourth of the acreage setting pods. Sorghum was 36% headed in 6 of the 7 major producing States, which was about normal. Cotton was mostly good. Squares were present on 84% of the acreage and 57% was setting bolls. Pastures improved in the Southeast but continued deteriorating over the western half of the Nation. Livestock were mostly good.

**SMALL GRAINS:** Winter wheat was 87% harvested in the 18 major producing States, compared with 82% last year and 83% normally. Harvest was complete or neared completion in all States except Idaho, Montana, Oregon, and Washington. Approximately one-fourth of the winter wheat acreage in Michigan, Oregon, South Dakota, and Washington was harvested this past week. Wheat stubble continued to be plowed under in the Corn Belt, the Delta, lower Great Plains, and the Southeast. Plowing was nearly finished in Oklahoma and 4% was plowed under in Indiana.

Spring wheat was 7% harvested, 5 points ahead of 1984 and 1 point ahead of the average. Harvest was underway in all States except Idaho. In South Dakota, 30% of the spring wheat was combined compared with 26% normally.

**CORN:** Corn was fair to mostly good. Scattered showers and cooler temperatures over the eastern half of the Nation helped relieve some stress caused by dryness. Corn was silking on 77% of the acreage in 16 of the 17 major producing States. Last year, only 56% of the acreage was silking and normally 62% of the acreage would be silking. Sixteen percent of the acreage had reached the dough stage compared with the 10% average. Corn continued maturing rapidly across the Southeast. Harvest ranged from 5% complete in Texas to 7% complete in Georgia.

**SOYBEANS:** Soybeans remained fair to mostly good. Rain improved crop condition along the east coast from Virginia to Florida. Moisture shortages continued in the Corn Belt and Great Plains, but crop condition remained about the same. In the 19 major producing States, 67% of the acreage was blooming with slightly more than one-fourth of the acreage setting pods. Last year, bloom and pods were present on 56 and 18% of the acreage, respectively. Normally, 58% of the acreage would be blooming and 19% would have acquired pods. Pod setting was 4 points behind normal in Michigan and 7 points below average in Arkansas.

**SORGHUM:** Sorghum was 36% headed in 6 of the 7 major producing States, which was about normal. Heading continued lagging behind normal in Texas and South Dakota. Overall crop condition was mostly good. Harvest was 22% finished in Texas compared with the 38% average. Hot, dry weather aided harvest in the Blacklands southward. Yields were excellent, thus far.

**COTTON:** Cotton was in mostly good condition. Harmful insects have been held in check in most areas as producers continued their regular spraying schedule. Squares were present on 84% of the acreage and 57% was setting bolls. Boll setting was slightly ahead of schedule, but squaring lagged 7 points behind normal. Both squaring and setting bolls in Texas were 18 and 16 points below the average, respectively. Cotton bolls began opening in Arizona and Georgia, and 2% of the Texas crop was harvested.

**OTHER CROPS:** Tobacco harvest was winding down in Florida and 43% harvested in Georgia. Harvesting, suckering and topping were the main activities in the Southeast. Topping and suckering was prevalent in the Appalachian States. Kentucky tobacco producers were experiencing problems with blue mold and grasshopper.

Rice was 25% headed compared with 26% last year and the 29% average. In Texas, heading was 54 points behind normal. Most of the rice in Texas is much later than normal, because wetness caused late planting this spring. About 3% of the crop was harvested with widespread harvest about 2 weeks away. Harvest was furthest along in Louisiana with 7% of the crop cut. Rice continued developing rapidly in California.

Peanuts were mostly good to excellent in the Southeast. Peanuts progressed well in Texas, but fields without rain were under stress.

**VEGETABLES:** Rain slowed land preparation for fall vegetables in Florida. Fall vegetable land preparation was active in Texas' Rio Grande Valley and some planting began. A wide variety of vegetables were harvested in California consisting mainly of carrots, broccoli, cantaloup, green peppers, and watermelons. Vegetable harvest continued declining seasonally in Texas and Florida.

**FRUIT AND NUTS:** Storm winds did insignificant damage to Florida's citrus. New-crop fruit continued making excellent progress. Stone fruit were actively harvested in California. Peach harvest slowed in the Southeast as harvest neared completion in Georgia, Louisiana, and South Carolina. Apple harvest progressed on schedule along the east coast. Early apple harvest began in Oregon. Sweet cherry harvest in Michigan virtually ended and Tart cherry harvest was 75% finished.

**PASTURES AND LIVESTOCK:** Rain improved pastures in the Southeast, but conditions continued deteriorating over the western half of the Nation. Supplemental feeding increased as range feed decreased. Livestock were mostly good. Stockwater continued declining in the West.

**CROP PROGRESS**

FOR WEEK ENDING JULY 28

|           | WINTER WHEAT<br>% HARVESTED |      |      |
|-----------|-----------------------------|------|------|
|           | 1985                        | 1984 | AVG. |
| ARK       | 100                         | 100  | 100  |
| CALIF     | 98                          | 99   | 98   |
| COLO      | 91                          | 77   | 81   |
| GA        | 100                         | 100  | 100  |
| IDAHO     | 10                          | 3    | 5    |
| ILL       | 100                         | 100  | 100  |
| IND       | 100                         | 98   | 97   |
| KANS      | 100                         | 100  | 99   |
| MICH      | 90                          | 70   | 61   |
| MO        | 100                         | 100  | 95   |
| MONT      | 15                          | 10   | 5    |
| NEBR      | 99                          | 85   | 90   |
| OHIO      | 99                          | 95   | 97   |
| OKLA      | 100                         | 100  | 100  |
| OREG      | 44                          | 17   | 27   |
| S DAK     | 85                          | 50   | 64   |
| TEX       | 100                         | 100  | 100  |
| WASH      | 28                          | 15   | 27   |
| 18 STATES | 87                          | 82   | 83   |

THESE 18 STATES PRODUCED 88% OF THE 1984 WINTER WHEAT CROP.

|          | SPRING WHEAT<br>% HARVESTED |      |      |
|----------|-----------------------------|------|------|
|          | 1985                        | 1984 | AVG. |
| IDAHO    | 0                           | 0    | 0    |
| MINN     | 5                           | 1    | 3    |
| MONT     | 5                           | 0    | 0    |
| N D      | 2                           | 1    | 2    |
| S DAK    | 30                          | 7    | 26   |
| 5 STATES | 7                           | 2    | 6    |

THESE 5 STATES PRODUCED 92% OF THE 1984 SPRING WHEAT CROP.

|          | SORGHUM<br>% HEADED |      |      |
|----------|---------------------|------|------|
|          | 1985                | 1984 | AVG. |
| ARK      | 73                  | NA   | NA   |
| KANS     | 10                  | 10   | 10   |
| MO       | 48                  | 48   | 43   |
| NEBR     | 20                  | 8    | 20   |
| OKLA     | 40                  | 30   | 25   |
| S DAK    | 10                  | 6    | 13   |
| TEX      | 70                  | 66   | 72   |
| 7 STATES | 37                  | NA   | NA   |

EXCL. STATES WITH NA 36 32 35

THESE 7 STATES PRODUCED 83% OF THE 1984 SORGHUM CROP.

NA - NOT AVAILABLE

|           | CORN<br>% SILKING |      |      |
|-----------|-------------------|------|------|
|           | 1985              | 1984 | AVG. |
| COLO      | 51                | 41   | 31   |
| GA        | 100               | 98   | 98   |
| ILL       | 94                | 81   | 86   |
| IND       | 85                | 70   | 65   |
| IOWA      | 88                | 60   | 67   |
| KANS      | 75                | 65   | 55   |
| KY        | 88                | 66   | 69   |
| MICH      | 55                | 50   | 53   |
| MINN      | 58                | 35   | 46   |
| MO        | 94                | 57   | 67   |
| NEBR      | 80                | 50   | 55   |
| N C       | 100               | 89   | 91   |
| OHIO      | 85                | 45   | 60   |
| PA        | 45                | 26   | 45   |
| S DAK     | 35                | 18   | 33   |
| TEX       | 90                | NA   | NA   |
| WIS       | 43                | 37   | 37   |
| 17 STATES | 77                | NA   | NA   |

THESE 17 STATES PRODUCED 93% OF THE 1984 CORN CROP.

NA - NOT AVAILABLE

|           | CORN<br>% DOUGH |      |      |
|-----------|-----------------|------|------|
|           | 1985            | 1984 | AVG. |
| COLO      | 7               | 0    | 0    |
| GA        | 100             | 92   | 95   |
| ILL       | 35              | 14   | 24   |
| IND       | 15              | 5    | 10   |
| IOWA      | 4               | 0    | 1    |
| KANS      | 25              | 5    | 10   |
| KY        | 28              | 6    | 8    |
| MICH      | 1               | 1    | 2    |
| MINN      | 0               | 0    | 0    |
| MO        | 58              | 18   | 23   |
| NEBR      | 6               | 0    | 5    |
| N C       | 86              | 59   | 67   |
| OHIO      | 15              | 10   | 10   |
| PA        | 0               | 0    | 0    |
| S DAK     | 0               | 0    | 0    |
| TEX       | 67              | NA   | NA   |
| WIS       | 5               | 1    | 2    |
| 17 STATES | 17              | NA   | NA   |

THESE 17 STATES PRODUCED 93% OF THE 1984 CORN CROP.

NA - NOT AVAILABLE

|           | COTTON<br>% SQUARING |      |      |
|-----------|----------------------|------|------|
|           | 1985                 | 1984 | AVG. |
| ALA       | 100                  | 100  | 95   |
| ARIZ      | 100                  | 100  | 99   |
| ARK       | 100                  | 100  | 100  |
| CALIF     | 100                  | 99   | 98   |
| GA        | 98                   | 98   | 100  |
| LA        | 99                   | 97   | 96   |
| MISS      | 100                  | 100  | 99   |
| MO        | 100                  | 100  | 94   |
| N MEX     | 99                   | 98   | 98   |
| N C       | 99                   | 85   | 87   |
| OKLA      | 85                   | 55   | 55   |
| S C       | 100                  | 100  | 100  |
| TENN      | 97                   | 95   | 95   |
| TEX       | 69                   | 82   | 87   |
| 14 STATES | 84                   | 89   | 91   |

THESE 14 STATES PRODUCED 100% OF THE 1984 COTTON CROP.

|           | COTTON<br>% SETTING BOLLS |      |      |
|-----------|---------------------------|------|------|
|           | 1985                      | 1984 | AVG. |
| ALA       | 93                        | 71   | 65   |
| ARIZ      | 90                        | 91   | 95   |
| ARK       | 93                        | 83   | 84   |
| CALIF     | 85                        | 75   | 66   |
| GA        | 90                        | 75   | 90   |
| LA        | 95                        | 70   | 75   |
| MISS      | 98                        | 59   | 64   |
| MO        | 91                        | 72   | 69   |
| N MEX     | 90                        | 95   | 86   |
| N C       | 86                        | 62   | 60   |
| OKLA      | 40                        | 15   | 10   |
| S C       | 90                        | 82   | 92   |
| TENN      | 55                        | 40   | 45   |
| TEX       | 27                        | 39   | 43   |
| 14 STATES | 57                        | 53   | 55   |

THESE 14 STATES PRODUCED 100% OF THE 1984 COTTON CROP.

|          | RICE<br>% HEADED |      |      |
|----------|------------------|------|------|
|          | 1985             | 1984 | AVG. |
| ARK      | 20               | 6    | 12   |
| CALIF    | 10               | 4    | 7    |
| LA       | 71               | 66   | 65   |
| MISS     | 66               | 20   | 24   |
| TEX      | 58               | 97   | 97   |
| 5 STATES | 37               | 32   | 35   |

THESE 5 STATES PRODUCED 97% OF THE 1984 RICE CROP.

|           | SOYBEANS<br>% BLOOMING |      |      |
|-----------|------------------------|------|------|
|           | 1985                   | 1984 | AVG. |
| ALA       | 50                     | 43   | 44   |
| ARK       | 27                     | 23   | 24   |
| GA        | 58                     | 43   | 52   |
| ILL       | 83                     | 74   | 76   |
| IND       | 80                     | 70   | 65   |
| IOWA      | 86                     | 76   | 74   |
| KANS      | 45                     | 50   | 35   |
| KY        | 46                     | 35   | 39   |
| LA        | 62                     | 48   | 47   |
| MICH      | 50                     | 50   | 54   |
| MINN      | 80                     | 73   | 75   |
| MISS      | 63                     | 48   | 49   |
| MO        | 67                     | 46   | 45   |
| NEBR      | 85                     | 65   | 70   |
| N C       | 21                     | 21   | 25   |
| OHIO      | 70                     | 65   | 65   |
| S C       | 35                     | 13   | 23   |
| S DAK     | 69                     | 36   | 71   |
| TENN      | 40                     | 40   | 40   |
| 19 STATES | 67                     | 56   | 58   |

THESE 19 STATES PRODUCED 94% OF THE 1984 SOYBEAN CROP.

|           | SOYBEANS<br>% SETTING PODS |      |      |
|-----------|----------------------------|------|------|
|           | 1985                       | 1984 | AVG. |
| ALA       | 25                         | 17   | 20   |
| ARK       | 3                          | 15   | 10   |
| GA        | 25                         | 14   | 20   |
| ILL       | 45                         | 30   | 33   |
| IND       | 20                         | 15   | 15   |
| IOWA      | 40                         | 34   | 35   |
| KANS      | 15                         | 15   | 10   |
| KY        | 15                         | 10   | 12   |
| LA        | 26                         | 23   | 23   |
| MICH      | 5                          | 10   | 9    |
| MINN      | 15                         | 12   | 14   |
| MISS      | 20                         | 8    | 14   |
| MO        | 37                         | 13   | 15   |
| NEBR      | 30                         | 15   | 15   |
| N C       | 7                          | 5    | 0    |
| OHIO      | 20                         | 15   | 20   |
| S C       | 6                          | 3    | 0    |
| S DAK     | 15                         | 7    | 11   |
| TENN      | 14                         | 5    | 8    |
| 19 STATES | 26                         | 18   | 19   |

THESE 19 STATES PRODUCED 94% OF THE 1984 SOYBEAN 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 over 5.00 in. common statewide. Some areas over 10.00 in. Temperatures averaged 2 to 40 below normal, near normal in southeast.

Fieldwork 4.0 days. Soil moisture 19% short, 61% adequate, 20% surplus. Corn dented 88%, 66% 1984, 65% avg.; mature 61%, 23% 1984; harvested 6%. Corn 2% very poor, 9% poor, 39% fair, 44% good, 6% excellent. Cotton setting bolls 93%, 71% 1984, 65% avg.; 13% fair, 67% good, 20% excellent. Soybeans blooming 50%, 43% 1984, 44% avg.; setting pods 25%, 17% 1984, 20% avg.; 31% fair, 69% good. Peanuts pegging 100%, 92% 1984; 18% fair, 76% good, 6% excellent. Sorghum 21% fair, 69% good, 4% excellent. Primary activities: Spraying cotton to control weevils, worms, aphids; applying fungicides to peanuts; harvesting, marketing vegetables; renovating pastures; cutting, baling hay; preparing for fall planting. Pastures 2% poor, 24% fair, 70% good, 4% excellent. Livestock 2% poor, 22% fair, 74% good, 2% excellent.

**ALASKA:** Interior remained warmer, drier with scattered showers. Coastal areas cooler, wetter than normal.

Up to 7.0 days available for making hay. Topsoil moisture 39% short, 61% adequate. Subsoil moisture 33% short, 67% adequate. Hay harvest 30% to complete. Barley grain 19% poor, 41% fair, 30% good, 10% excellent. Barley for grain 90% headed, 10% early dough. Commercial potatoes all hilled, bloom avg. 20%. Head lettuce, other greens harvest continued.

**ARIZONA:** Dry air spread eastward early part of week. Moisture increased late 26th, 27th with showers, thunderstorms. Rainfall eastern two-thirds between 0.25 to 1.00 in.; none to very light amounts over extreme west. Average temperatures from 40 below normal to 10 above.

Cotton 100% squaring, 100% 1984, 99% avg.; 90% setting bolls, 91% 1984, 95% avg.; 2% fair, 96% good, 2% excellent. Open bolls reported in Yuma, Maricopa Counties. Weed, disease infestations light. Insects light except heavy in west. Alfalfa hay harvest moderate to active, crop in good condition. Insect, weed infestations light to moderate, except heavy in west. Sales slow. Sorghum good to excellent. Late plantings done. Silage corn being cut, harvest completed soon. Grain corn progressing well. Yuma peanut crop good. Sesame in heavy bloom, earlier planted fields nearing harvest. Watermelon harvest virtually complete. Other melon varieties picked. Fall melon planting continued, stands considered normal. Lemons picked Yuma on very limited scale. Citrus groves good. Early apples harvested for products. Fresh market apples harvested next week. Peach harvest continued.

**ARKANSAS:** Temperatures 20 below normal to 10 above normal. Rainfall scattered. Temperature extremes 510; 1000. Precipitation 0.14 to 3.42 in.

Days suitable for fieldwork 6.0. Soil moisture 57% short, 42% adequate, 1% surplus. Rice 20% headed, 6% 1984, 12% avg. Rice 2% poor, 11% fair, 78% good, 9% excellent. Cotton 100% squared, 100% 1984, 100% avg. Cotton 93% setting bolls, 83% 1984, 84% avg. Cotton 19% fair, 61% good, 20% excellent. Winter wheat 100% harvested, 100% 1984, 100% avg. Sorghum 73% headed; 30% fair, 65% good, 5% excellent. Soybeans 27% blooming, 23%

1984, 21% avg. Soybeans 3% setting pods, 15% 1984, 10% avg. Soybeans 5% poor, 35% fair, 60% good.

**CALIFORNIA:** Early week thunderstorms moved from southeast, brought showers to deserts and even as far north as Stockton, Fresno. High aloft responsible for extreme high temperatures weakened somewhat by end of week, giving signs of breaking down allowing cooler air from Pacific into State for some relief from heat. Out of 44 stations reporting, 23 had temperatures 1000 or greater for the weekly high temperatures.

Warm weather continued. Wheat 98% harvested, 99% 1984, 98% avg. Rice 10% headed, 4% 1984, 7% avg. Cotton 100% squared, 99% 1984, 98% avg.; 85% setting bolls, 75% 1984, 66% avg. Rice, cotton continued rapid development. Dry beans continued blooming, setting pods. Fourth, fifth cuttings of alfalfa being taken San Joaquin Valley. Corn cut for silage. Safflower harvest continued, fields maturing rapidly. Rice, cotton condition 100% good. Harvest San Joaquin Valley table grapes, nectarines, Clingstone peaches, Freestone peaches, Bartlett pears, plums, Valencia orange active. Applying pesticides to almond. Artichoke harvest light. Broccoli moderate supply central coast. Cantaloup harvest full swing San Joaquin Valley. Carrot harvest fairly heavy. Cauliflower fairly light supply central coast. Celery harvest fairly light due market conditions. Harvest honeydew, miscellaneous melons active central interior valleys. Lettuce moderate supply central coast. Dehydrator onion harvest active. Green pepper harvest active San Joaquin Valley, started central coast. Summer potato harvest active Riverside County. Market tomato harvest active San Joaquin Valley. Processing tomato harvest active central interior valley. Watermelon harvest moderate. Ranges, pastures continued dry most districts. Grass, brush fires problem most areas. Feed, stockwater supplies continued decline. Supplemental feeding increased due to range feed shortage some districts.

**COLORADO:** Wet week statewide with rainfall amounts of 1.00 in. and greater common. Temperatures 4 to 70 below normal.

Days suitable for fieldwork 3.5. Soil moisture 19% short, 70% adequate, 11% surplus. Winter wheat 91% harvested, 77% 1984, 81% avg. Corn 7% fair, 30% good, 63% excellent; 51% silked, 41% 1984, 31% avg. Barley 43% harvested, 21% 1984, 25% avg. Alfalfa hay 36% cut second time, 39% 1984, 40% avg. Dry beans 54% flowered, 36% 1984, 42% avg. Livestock good condition.

**FLORIDA:** Tropical storm Bob brought heavy rains south. Early week, frequent thunderstorms, generally above normal rainfall all areas. Temperatures below normal.

Soil moisture adequate except few localized areas remain short. Corn harvest gaining momentum. Tobacco harvest continued, declining seasonally. Recent heavy rains caused tobacco damage in few localities. Soybeans mostly good condition. Peanuts making good progress, insect populations increasing. Green peanut harvest active. Cotton good. Hay harvesting hampered by thundershowers. Sugarcane good. Pastures fair to good most central areas, improving with frequent rains. Grazing good Panhandle; good to excellent north, Lower Peninsula. Cattle good to

excellent. Daily showers most vegetable areas, up to 10.00 in. Rainfall some south areas early week from tropical storm Bob. Land preparation for fall planting interrupted by rains. Harvest watermelons declining seasonally. Light supplies available north, west areas. Citrus groves good, tropical storm Bob provided abundance of moisture south. Storm winds did no significant damage to citrus. New crop fruit continues to make excellent progress.

**GEORGIA:** Measurable rain 5 to 7 days north and central, 3 to 5 days south. North, west central 3.00 to 6.00 in. rain. Some areas of south reported less than 0.50 in. Temperatures 2 to 4° below normal south. Temperature extremes 62° Clayton 23rd morning, 100° Dublin afternoon 22nd.

Days suitable for fieldwork 4.1. Soil moisture 3% very short, 17% short, 64% adequate, 16% surplus. Main activities spraying for insect, disease, and weed control. Corn 100% dough, 92% 1984, 95% avg.; 91% dent, 71% 1984, 80% avg.; 50% mature, 39% 1984, 55% avg.; 7% harvested, 5% 1984, 10% avg.; 2% very poor, 6% poor, 36% fair, 51% good, 5% excellent. Cotton 98% squaring, 98% 1984, 100% avg.; 90% setting bolls 75% 1984, 90% avg., 1% bolls open, none 1984, 2% avg.; 22% fair, 74% good, 4% excellent. Grain sorghum 99% planted, 99% 1984, 98% avg.; 1% poor, 19% fair, 77% good, 3% excellent. Peanuts 99% blooming, 100% 1984, 99% avg.; 95% pegging, 99% 1984, 97% avg.; 2% poor, 11% fair, 79% good, 8% excellent. Soybeans 58% blooming, 43% 1984, 52% avg.; 25% setting pods, 14% 1984, 20% avg.; 1% very poor, 1% poor, 14% fair, 83% good, 1% excellent. Tobacco 43% harvested, 42% 1984, 55% avg.; 14% fair, 86% good. Watermelons 92% harvested, 79% 1984, 85% avg.; 2% poor, 24% fair, 74% good. Apples 16% harvested, 21% 1984, 21% avg.; 3% poor, 29% fair, 65% good, 3% excellent. Peaches 98% harvested, 90% 1984, 92% avg.; 16% very poor, 22% poor, 24% fair, 38% good. Pecans 2% very poor, 5% poor, 33% fair, 58% good, 2% excellent. Pastures 22% fair, 72% good, 6% excellent. Hay 1% poor, 31% fair, 64% good, 4% excellent. Cattle 20% fair, 78% good, 2% excellent. Hogs 13% fair, 86% good, 1% excellent.

**HAWAII:** Crops made fair to good progress under variable weather. Potential threat of Ignacio unleashing its force as the Hurricane dominated the news. Ignacio downgraded to a tropical storm on 25th and passed islands during latter part of week. This brought increased winds, showers to some crop growing areas. Water conservation efforts are still in effect Waimea, Hawaii and on Oahu. Banana, papaya orchards benefitted from weeks rain. Active papaya harvesting Puna area of Hawaii Island. Output of Head Cabbage, Head lettuce continued heavy.

**IDAHO:** Temperatures continued warm, in north, southwest with most stations ranging from 2 to 6° above normal. Magic Valley, southeast ranged from normal to 4° below normal. Lewiston, Grandview hot spots reporting 103° for highs. Precipitation limited to scattered showers, thundershowers with Grace reporting greatest amounts of 0.65 in.

Days suitable for fieldwork 7.0. Second cutting alfalfa 30% cut, 28% 1984, 21% avg. Dry peas 22% harvested. Apricots 40% picked, 8% 1984. Grass seed 50% harvested, 12% 1984, 25% avg. Mint 20% harvested, 17% 1984, 20% avg. Winter wheat, spring wheat, barley 100% headed. Winter wheat 100% turning color, 10% harvested. Spring wheat 33% not turning color, 67% turning. Barley 30% not turning color, 70% turning; 6% harvested. Potatoes 91% closing row middles, 9% not closing; 3% turning color. Winter wheat 4% very poor, 11%

poor, 44% fair, 41% good. Spring wheat 30% poor, 40% fair, 30% good. Barley 17% poor, 41% fair, 38% good, 4% excellent. Potatoes 5% fair, 81% good, 14% excellent. Sugarbeets 89% good, 11% excellent. Onions 100% good. Corn 8% poor, 17% fair, 33% good, 42% excellent. Dry beans 63% good, 38% excellent. Grasshopper infestation in south, east 9% none, 22% light, 61% moderate, 8% severe.

**ILLINOIS:** Temperatures 2 to 7° below normal. Precipitation none to 2.50 in. scattered, heaviest southwest.

Days suitable for fieldwork 5.8. Soil moisture 56% short, 43% adequate, 1% surplus. Corn silking 94%, 81% 1984, 86% avg.; dough stage 35%, 14% 1984, 24% avg.; dented 6%, none 1984, 2% avg.; corn 19% fair, 53% good, 28% excellent. Soybeans blooming 83%, 74% 1984, 76% avg.; setting pods 45%, 30% 1984, 33% avg. Soybeans 1% poor, 18% fair, 65% good, 16% excellent. Winter wheat harvested 100%, 100% 1984, 100% avg. Oats ripe 99%, 91% 1984, 94% avg.; harvested 85%, 56% 1984, 60% avg. Alfalfa second crop 93% cut, 84% 1984, 84% avg.; third crop cut 19%, 10% 1984, 8% avg.; 3% poor, 31% fair, 54% good, 12% excellent. Sorghum 53% fair, 43% good, 5% excellent. Pasture 12% poor, 37% fair, 44% good, 7% excellent.

**INDIANA:** Temperatures 1 to 3° above normal. Extreme lows in upper 40's and low 50's. Highs upper 80's to low 90's. Below normal rainfall. Totals less than 0.01 to 1.50 in.

Fieldwork averaged 5.8 days. Topsoil moisture 66% short, 34% adequate. Subsoil moisture 66% short, 34% adequate. Corn 11% poor, 39% fair, 45% good, 5% excellent. Corn 85% silked, 70% 1984, 65% avg. Corn 15 in dough, 5% 1984, 10% avg. Soybean 7% poor, 39% fair, 51% good, 3% excellent. Soybeans 80% in bloom, 70% 1984, 65% avg. Soybeans 20% setting pods, 15% 1984, 15% avg. Oats 85% combined, 45% 1984, 65% avg. Wheat 100% combined, 98% 1984, 97% avg. Rye 97% combined, 80% 1984, 90% avg. Wheat land 4% plowed, 4% 1984, 4% avg. Alfalfa 90% cut twice, 85% 1984, 75% avg.

**IOWA:** Temperatures 44° 22nd to 94° 24th. Precipitation to 6.00 in. Average daily pan evaporation 0.25 to 0.30 in.

Days suitable for fieldwork 5.5. Topsoil moisture 57% short, 42% adequate, 1% surplus. Subsoil moisture 72% short, 28% adequate. Corn tasseled 95%, 83% 1984, 87% avg. Corn silked 88%, 60% 1984, 67% avg. Corn dough stage 4%, none 1984, 1% avg. Corn 1% very poor, 3% poor, 28% fair, 52% good, 16% excellent. Soybeans blooming 86%, 76% 1984, 74% avg. Soybeans setting pods 40%, 34% 1984, 35% avg. Soybeans 1% very poor, 3% poor, 24% fair, 61% good, 11% excellent. Oats harvested 95%, 54% 1984, 65% avg. Winter wheat harvested 99%, 92% 1984, 90% avg. Second crop alfalfa hay harvested 95%, 64% 1984, 76% avg. Second crop clover hay harvested 75%, 31% 1984, 47% avg. Hay 3% very poor, 15% poor, 49% fair, 30% good, 3% excellent. Pastures 19% very poor, 36% poor, 33% fair, 10% good, 2% excellent. Livestock good.

**KANSAS:** Precipitation averaged 0.50 to 1.00 in. southwest, 1.25 to 2.00 in. elsewhere. Temperatures averaged 75° northwest, 77 to 80° elsewhere; normal northeast to 4° below normal southwest.

Days suitable for fieldwork 5.0. Topsoil moisture 49% short, 50% adequate, 1% surplus. Subsoil moisture 37% short, 63% adequate. Wheat 100% harvested, 100% 1984, 99% avg. Sorghum 10% headed, 10% 1984, 10% avg. Greenbugs, grasshoppers light to moderate. Sorghum 11% fair, 35% good, 54% excellent. Corn 75% silking, 65%

1984, 55% avg. Corn 25% dough, 5% 1984, 10% avg. Corn 19% good, 81% excellent. Soybeans 45% blooming, 50% 1984, 35% avg. Soybeans 15% podding, 15% 1984, 10% avg. Soybeans 7% fair, 21% good, 72% excellent. Second cutting alfalfa virtually complete, third cutting 30% complete. Range, pasture fair to good.

**KENTUCKY:** Warm, not excessively humid weather. Daily high temperature levels mostly middle 80's while few stations nudged 90 mark. Mean daily temperatures near normal in mid to upper 70's. Scattered thunderstorms. Heavier thunderstorms dropped over 3.00 in. rain, while majority reporting stations received 0.50 in.

Days suitable for fieldwork 5.0. Soil moisture 67% short, 33% adequate. Crops generally good in spite moisture stress. Corn 1% poor, 28% fair, 55% good, 16% excellent. Insect, disease damage light. Corn 88% silked, 66% 1984, 69% avg.; 28% dough, 6% 1984, 8% avg. Soybean 2% poor, 33% fair, 58% good, 7% excellent. Soybeans 46% blooming, 35% 1984, 39% avg.; 15% set pods, 10% 1984, 12% avg. Burley tobacco 74% blooming, 20% 1984, 26% avg.; 28% topped. Some blue mold, grasshopper problems. Tobacco fair to good. Hay, sorghum good. Pastures fair to good, but deteriorating.

**LOUISIANA:** Temperatures averaged 10 below normal to 10 above normal. Temperature extremes 69; 97. Rain totals averaged 0.38 to 3.15 in.

Days suitable for fieldwork 4.4. Soil moisture 16% short, 78% adequate, 6% surplus. Cotton 46% fair, 54% good; 99% squaring, 97% 1984, 96% avg. Cotton 95% setting bolls, 70% 1984, 75% avg. Rice 20% fair, 77% good, 3% excellent. Rice 71% headed, 66% 1984, 65% avg.; 18% ripe, 13% 1984, 15% avg. Rice 7% harvested, 8% 1984, 9% avg. Soybeans 4% poor, 40% fair, 51% good, 5% excellent; 62% blooming, 48% 1984, 47% avg. Soybeans 26% setting pods, 23% 1984, 23% avg. Sorghum 46% fair, 48% good, 6% excellent; 92% headed, 89% 1984, 79% avg. Sorghum 54% turning color, 49% 1984, 40% avg.; 7% ripe, 5% 1984, 7% avg. Corn fair to good; 97% dough stage, 92% 1984, 90% avg. Corn 61% mature 46% 1984, 49% avg.; 5% harvested, 5% 1984, 13% avg. Sweetpotatoes fair to good, 3% harvested, 3% 1984, 4% avg. Peaches good; 88% harvested, 84% 1984, 88% avg. Pastures, livestock, sugarcane fair to good; vegetables fair.

**MARYLAND & DELAWARE:** Maryland: Temperatures variable ranging from minus 20 west to plus 20 north. Precipitation averaged 0.98 in., ranging from 0.20 to 3.40 in. Lows ranging from upper 40's to near 60; high temperatures near 90 to mid 90's.

Fieldwork 5.5 days. Topsoil, subsoil moisture remains short in spite of rains received. Corn silked 80%, 70% 1984, 75% avg. Corn dough 45%, 10% 1984, 25% avg. Corn dent 2%, none 1984, none avg. Soybean bloom 35%, 25% 1984, 30% avg. Soybeans podded 10%, 10% 1984, 10% avg. Tobacco 55% bloom; 25% topped. Third cutting alfalfa hay, 40% three weeks ahead of 1984. Other hay second cutting 95%, 70% 1984, 80% avg. Third cutting other hay 45%, none 1984, 5% avg. Vegetable harvest well ahead of 1984 and average for all crops but lima beans, snap beans.

Delaware: Variable rainfall, temperatures above normal. Precipitation averaged 1.22 in. ranging from 0.20 in. south to over 2.00 in. north. Temperatures averaged 10 above normal statewide.

Days suitable for fieldwork 6.0. Topsoil, subsoil moisture short despite rain. Corn silked 90%, 65% 1984, 80% avg. Corn dough 25%, 10% 1984, 25% avg. Corn dent 5%, none 1984, none avg.

Soybeans bloom 40%, 25% 1984, 20% avg. Soybeans podded 6%, none 1984, none avg.

**MICHIGAN:** Cool, wet summer week. Temperatures averaged 40 below normal. Precipitation ranged from 0.20 to 4.60 in.

Days suitable for fieldwork 5.8. Soil moisture 59% short, 41% adequate. Row crop development near normal. Corn 55% silked, 50% 1984, 53% avg.; 1% dough, 1% 1984, 2% avg. Corn 10% poor, 25% fair, 45% good, 20% excellent. Soybeans 50% blooming, 50% 1984, 54% avg.; 5% setting pods, 10% 1984, 9% avg. Soybeans 7% poor, 23% fair, 55% good, 15% excellent. Winter wheat 90% harvested, 70% 1984, 61% avg. Winter wheat 5% poor, 10% fair, 65% good, 20% excellent. Dry beans 50% blooming, 35% 1984, 59% avg. Dry beans 10% poor, 35% fair, 45% good, 10% excellent. Timely rains improved fruit, vegetable development. Tart cherries 75% harvested, 60% 1984, 64% avg. Sweet cherries 98% harvested, 85% 1984, 84% avg. Apples excellent all areas. Celery, cucumber, tomato, sweet corn, snap bean, cauliflower harvests continued. Vegetable quality excellent.

**MINNESOTA:** Much needed rain, southeast portion. Temperatures averaged 1 to 40 below normal. Temperature extremes 39; 95. Precipitation averaged 0.22 in. below normal to 0.93 in. above normal. Greatest weekly total 2.48 in.

Days suitable for fieldwork 4.6. Topsoil moisture 26% short, 65% adequate, 9% surplus. Corn 79% tasseling, 67% 1984, 72% avg.; 8% in milk, 2% 1984, 4% avg.; 1% very poor, 9% poor, 35% fair, 45% good, 10% excellent. Soybeans 80% blooming, 73% 1984, 75% avg.; 15% setting pods, 12% 1984, 14% avg.; 1% very poor, 3% poor, 40% fair, 48% good, 8% excellent. Spring wheat 71% turning ripe, 73% 1984, 72% avg.; 5% harvested, 1% 1984, 3% avg.; 3% poor, 26% fair, 58% good, 13% excellent. Oats 89% turning ripe, 91% 1984, 86% avg.; 29% harvested, 11% 1984, 13% avg. Barley 84% turning ripe, 91% 1984, 86% avg.; 10% harvested, 11% 1984, 13% avg. Sunflowers 15% blooming, 23% 1984, 31% avg.

**MISSISSIPPI:** Temperatures averaged near normal. Extremes 65; 96. Greatest 24-hour rainfall 4.59 in.

Fieldwork 4.0 days suitable, 5.4 1984, 5.5 avg. Soil moisture 25% short, 59% adequate, 16% surplus. Cotton 98% setting bolls, 59% 1984, 64% avg.; 14% fair, 73% good, 13% excellent. Rice 66% heading, 20% 1984, 24% avg.; 12% fair, 88% good. Soybeans 63% blooming, 48% 1984, 49% avg.; 20% podding, 8% 1984, 14% avg.; 39% fair, 56% good, 5% excellent. Grain sorghum 79% heading, 62% 1984; 21% fair, 76% good, 3% excellent. Corn 97% silking; 87% dough, 82% 1984, 79% avg.; 25% mature, 13% 1984, 13% avg.; 9% poor, 17% fair, 71% good, 3% excellent. Corn silage 25% harvested, 20% 1984. Sorghum silage 30% harvested. Peaches 80% harvested, 73% 1984, 71% avg.; 13% very poor, 13% poor, 40% fair, 34% good. Watermelons 73% harvested, 55% 1984. Hay 65% harvested, 55% 1984, 66% avg. Pasture 5% poor, 43% fair, 49% good, 3% excellent.

**MISSOURI:** Temperatures averaged slightly below normal except southeast 20 above normal. Rainfall averaged 1.50 in., 3.00 in. parts of east, less than 0.50 in. parts of central.

Days suitable for fieldwork 4.8. Topsoil moisture supplies 60% short, 36% adequate, 4% surplus. Rain over much of State helped crop condition, more needed to help all crops especially double crop and late planted fall season soybeans. Corn 5% poor, 40% fair, 41% good, 9% excellent; silking 94%, 57% 1984, 67% avg.; dough, 58%, 18% 1984, 23% avg.; dent 13%,

none 1984, 3% avg. Soybeans 1% poor, 50% fair, 44% good, 5% excellent; blooming 67%, 46% 1984, 45% avg.; setting pods 37%, 13% 1984, 15% avg. Grain sorghum 2% poor, 56% fair, 40% good, 2% excellent; heading 48%, 48% 1984, 43% avg. Cotton 70% fair, 30% good; squaring 100%, 100% 1984, 94% avg.; setting bolls 91%, 72% 1984, 69% avg. Third crop alfalfa 25% cut, other hay 91% cut once. Pasture 24% poor, 55% fair, 21% good. Scattered grasshopper infestations, heavy some areas.

**MONTANA:** Very hot first of week, cooling midweek, then warm again end of week. Temperatures west, southwest 3 to 7° above normal, rest of State about 2° above normal. Highest 108° at Poplar. Mostly dry over west, southwest. Elsewhere precipitation ranged from about 0.10 to 0.50 in. across some of northern portions.

Days suitable for fieldwork 6.2. Topsoil moisture 96% short, 4% adequate. Subsoil moisture 98% short, 2% adequate. Winter wheat 23% very poor, 61% poor, 11% fair, 5% good. Winter wheat turning color 35%, 35% 1984, 55% avg.; ripe but not harvested 50%, 50% 1984, 35% avg.; harvested for grain 15%, 10% 1984, 5% avg. Spring wheat 53% very poor, 44% poor, 2% fair, 1% good. Spring wheat turning 60%, 50% 1984, 45% avg.; ripe but not harvested 20%, 10% 1984, 10% avg.; harvested for grain 5%, none 1984, none avg. Barley 64% very poor, 27% poor, 5% fair, 4% good. Barley turning color 55%, 50% 1984, 45% avg.; ripe but not harvested 25%, 15% 1984, 10% avg.; harvested for grain 5%, none 1984, none avg. Oats turning color 50%, 55% 1984, 45% avg.; ripe but not harvested 25%, 10% 1984, 10% avg.; harvested 5%, none 1984, none avg. Second cutting alfalfa 40%, 10% 1984, 10% avg. Wild hay harvested 90%, 75% 1984, 65% avg. Irrigation water supplies 82% short, 18% adequate. Stockwater supplies 91% short, 9% adequate.

**NEBRASKA:** Week mild, wet. Average temperatures ranged 1° above to 4° below normal. Widespread thundershowers produced needed rains, amounts varied 0.50 to 2.50 in.

Days suitable 4.4. Topsoil moisture 45% short, 55% adequate. Subsoil moisture 50% short, 50% adequate. Winter wheat harvested 99%, 85% 1984, 90% avg. Corn 8% fair, 63% good, 29% excellent. Irrigated corn 4% fair, 63% good, 33% excellent. Non-irrigated corn 1% poor, 17% fair, 63% good, 19% excellent. Corn silking 80%, 50% 1984, 55% avg. Corn dough 6%, none 1984, 5% avg. Insect populations increasing east central, southwest. Soybeans 4% fair, 73% good, 23% excellent. Soybean blooming 85%, 65% 1984, 70% avg.; setting pods 30%, 15% 1984, 15% avg. Sorghum 14% fair, 70% good, 16% excellent. Sorghum headed 20%, 8% 1984, 20% avg. Greenbug spraying continued, some damage early planted sorghum. Oats harvested 85%, 45% 1984. Alfalfa 2nd cutting 90%, 65% 1984, 80% avg.

**NEVADA:** Little change in weather pattern. Temperatures remained warm, scattered thunderstorms continued. Week started slightly cooler, temperatures rose above normal again by end of period, thunderstorms numerous. Temperature extremes 35°; 113°.

Alfalfa hay harvest slowed by numerous thundershowers. More range fires started from resulting lightning. Potatoes showing normal growth.

**NEW ENGLAND:** Average precipitation between 0.30 and 0.60 in. Southern areas ranged from 2.00 to 3.00 in., eastern areas 1.00 to 2.00 in. Northern average temperatures in low 60's; central, 65 to 70's; coastal southern, low 70's.

Days suitable for fieldwork 6.5. Soil moisture 50% short, 50% adequate. Fieldwork progress on

schedule. Grazing availability 50% short, 50% adequate. Field corn 65% good, 35% excellent. First crop hay 90% cut, 90% 1984, 95% avg.; quality fair to good. Second crop hay 30% cut; 30% 1984; 35% avg.; quality good to excellent. Tobacco harvest active. Maine potatoes sizing rapidly, quality good to excellent. Sweet corn harvest underway; 60% good, 40% excellent. Maine wild blueberry harvest underway. Excellent set on Massachusetts cranberries.

**NEW JERSEY:** Temperatures averaged 3° below normal. Extremes 45°; 92°. Weekly rainfall averaged 2.44 in. north, 1.98 in. central, 1.52 in. south. Heaviest 24-hour total 2.40 in. on 26th to 27th. Estimated soil moisture, in percent of field capacity, averaged 85% north, 82% central, 68% south. Four inch soil temperatures averaged 71° north, 73° central, 75° south.

Days suitable 5.9. Farmers planting fall vegetables. Summer vegetables moving to market in good volume. Irish potatoes made excellent growth but poor prices slowing harvest. Peach, summer apple harvest increased. Cranberry prospects good. Second cutting of hay progressing between showers. Showers timely for good crop development. Oat, rye, wheat combining progressing. Field corn, soybeans made excellent growth.

**NEW MEXICO:** Average temperatures below normal. Temperatures 39° northern mountains to 96° southern desert. Numerous showers thundershowers. Precipitation 0.05 in. northeastern Plains to 2.42 in. northern mountains.

Days suitable for fieldwork 6.6. Soil moisture 88% short, 12% adequate. Hail damage 94% none, 6% light. Alfalfa 13% fair, 74% good, 13% excellent. Cotton 9% poor, 18% fair, 73% good; 99% squaring, 98% 1984, 98% avg.; 90% setting bolls, 95% 1984, 86% avg. Corn 8% fair, 75% good, 17% excellent. Barley 60% good, 40% excellent. Irrigated sorghum 78% good, 22% excellent. Dry sorghum 50% fair, 50% good. Pecan 11% fair, 89% good. Apples 25% fair, 75% good. Chile 13% fair, 87% good. Onions 40% good, 60% excellent. Cattle 6% poor, 29% fair, 59% good, 6% excellent. Sheep 29% fair, 71% good. Range 12% poor, 64% fair, 24% good.

**NEW YORK:** Temperatures averaged near normal. Record low temperatures on night of 24th reported for Albany, Syracuse, Rochester. Precipitation well below normal for western, northern State. Rainfall well above normal in southeastern State from New York City to Albany, as remains of tropical depression Bob moved over northeast.

Days suitable for fieldwork 6.5. Soil moisture ranges from short to adequate. Corn in good shape, mostly tasseled. Oat harvest began. Wheat harvest active, 14% complete, 47% average. Potato leafhopper problems in new alfalfa seedings. Second cut alfalfa hay harvest 28% complete, 39% average. First cut clover-timothy hay harvest winding down, 87% complete. Fruit under stress from lack of rain. Early peaches harvested. Sweet corn, onions, potatoes, celery, lettuce, cabbage harvested. Pastures fair.

**NORTH CAROLINA:** Temperatures ranged below normal in west to above normal along coast. Rainfall ranged from 0.10 to 6.50 in. across State.

Days suitable for fieldwork 4.0. Soil moisture 14% short, 70% adequate, 16% surplus. Tobacco 21% fair, 67% good, 12% excellent; harvested 10%, 11% 1984, 19% avg. Corn 20% poor, 25% fair, 50% good, 5% excellent; silked 100%, 89% 1984, 91% avg.; soft dough 86%, 59% 1984, 67% avg.; dent 62%, 21% 1984, 36% avg. Cotton 6% fair, 83% good, 11% excellent; squared 99%, 85% 1984, 87% avg.; bloomed 86%, 62% 1984, 60% avg. Peanuts 21% fair,

74% good, 5% excellent. Soybeans 24% fair, 72% good, 4% excellent. Hay 16% poor, 39% fair, 41% good, 4% excellent. Irish potatoes 18% poor, 18% fair, 64% good. Sweetpotatoes 19% fair, 74% good, 7% excellent. Apples 27% poor, 47% fair, 26% good. Pasture 14% poor, 39% fair, 41% good, 6% excellent. Major farm activities: Topping, suckering and harvesting tobacco, spraying soybeans and peanuts, spraying and harvesting vegetables, scouting for weed and insect control, harvesting hay, spraying apples, and harvesting potatoes.

**NORTH DAKOTA:** Rainfall brought little relief from this summer's dry spell. Most of State running from 1.00 to 3.00 in. behind normal, with exception of northeast and east central districts, which were near normal. Of 34 reporting points from last week, 19 received less than 0.10 in. of rain. Only 5 stations had more than 0.50 in. Temperature averages ranged from 20 above normal northwest to 40 below normal north central and northeast. Extreme temperatures ranged from 105d at Crosby on 22nd at 380 at Petersburg on 23rd.

Fieldwork 6.7 days suitable. Topsoil moisture supplies continue well below normal, subsoil also below normal. Topsoil 85% very short or short, 15% adequate. Subsoil supplies 58% very short or short, 42% adequate. Three-fourths of barley crop turning ripe or beyond, almost one-third of which is in swath or combined. General hard red spring wheat harvest about one week away. Hard red spring wheat 2% poor, 35% fair, 54% good, 9% excellent. Progress at 58% turning ripe or beyond, 35% 1984, 41% avg. Durum 5% poor, 30% fair, 48% good, 17% excellent. Barley 6% poor, 19% fair, 62% good, 13% excellent. Oats 2% poor, 54% fair, 37% good, 7% excellent. All late season crops except dry beans, potatoes showed conditions declining from week ago, sunflower showing sharpest drop. Crop development near to slightly ahead of normal. Sunflower 38 in. avg. height; 38 in. 1984, 42 in. avg. Sunflower 3% poor, 42% fair, 53% good, 2% excellent. Corn 9% poor, 46% fair, 45% good. Moisture stress more evident for late season crops, hay.

**OHIO:** Temperatures near normal west; 2 to 40 below normal central, east. Highs averaged upper 70's northeast, lower 80's elsewhere; lows from mid 50's to low 60's. Rainfall late in week, totals below normal, distribution wide. Totals 0.25 to 0.75 in.

Days suitable 6.0. Topsoil moisture 38% short, 62% adequate. Corn 10% fair, 59% good, 31% excellent; silking 85%, 45% 1984, 60% avg.; dough 15%, 10% 1984, 10% avg.; moisture stress, rootworms. Soybeans 18% fair, 68% good, 14% excellent; blooming 70%, 65% 1984, 65% avg.; setting pods 20%, 15% 1984, 20% avg. Winter wheat 99% harvested, 95% 1984, 97% avg. Oats good; 50% harvested, 25% 1984, 35% avg. All hay good alfalfa 2nd cutting 80%, 75% 1984, 70% avg. Other hay 2nd cutting 60%, 60% 1984, 50% avg. Picking pickles, sweet corn, tomatoes, carrots. Summer apple harvest 60%. Pasture fair to good. Livestock not enjoying heat.

**OKLAHOMA:** Temperatures averaged normal northeast, east central to 40 below normal west central. Precipitation averaged 0.18 in. south central to 2.36 in. north central.

Days suitable for fieldwork 5.6. Topsoil moisture 55% short, 40% adequate, 5% surplus. Subsoil moisture 20% short, 80% adequate. Wheat 100% harvested, 100% 1984, 100% avg. Wheat development central. Cotton 2% fair, 98% good. Cotton 85% squaring, 55% 1984, 55% avg. Cotton 40% setting bolls, 15% 1984, 10% avg. Rain beneficial to summer crops, pasture. Parasites heavy southeast.

stubble plowing nearly finished. Seedbed preparation beginning. Sorghum 10% fair, 85% good, 5% excellent. Sorghum 40% heading, 30% 1984, 25% avg. Sorghum entering mature

**OREGON:** Above normal temperatures continued, many 1000 or more highs western interior and central areas. Coast fog kept temperatures near normal. State dry, except for traces of precipitation coast and south central areas beginning of week.

Soil moisture 100% short. Winter wheat 2% poor, 56% fair, 42% good; 44% harvested, 17% 1984, 27% avg.; yields above earlier expectations; quality below normal, small kernels, some shriveling north central area. Barley 50% harvested; average yield above normal for fall seedings. Willamette Valley oat harvest began; crop turning color -- Klamath County. Grass seed harvest neared completion all areas; yield variable. Red clover in full bloom Willamette Valley. Field corn developed well, excellent condition. Sweet cherry harvest continued Union County. Medford, Hood River area pears good condition; hot, dry weather slowed fruit growth. Early apple, plum harvest Willamette Valley. Blueberry harvest peaked. Raspberry harvest neared completion. Most berry yields below normal. Watermelon harvest continued Hermiston area; quality good. Cranberries began to turn color. Filbert growers applied second worm sprays. Most vegetable acreage State under irrigation. Sweet corn developed nicely Willamette Valley. Fresh market vegetables being harvested. Broccoli good quality, yields. Snap beans for processing harvest started. Storage onions developed normally all areas. Walla Walla sweet onion harvest nearly completed. Early tomatoes ripened Jackson County. Fall potatoes developed normally all areas. Norgold harvest continued Hermiston-Boardman; quality good, poor price. Livestock good. Eastern range dry, except high elevations. Hot, dry weather continued to decrease grazing quality. Some cattle fed hay, or on grain stubble.

**PENNSYLVANIA:** Average rainfall 1.39 in., 0.53 in. above normal. Average temperature 690, 20 below normal.

Days suitable 5.0. Soil moisture 32% short, 59% adequate, 9% surplus. Corn 2% very poor, 3% poor, 15% fair, 43% good, 37% excellent. Average corn height 62 in., 57 in. 1984. Soybean 2% poor, 18% fair, 54% good, 26% excellent. Wheat 3% headed; 2% turning yellow, 15% 1984; 30% ripe, 33% 1984; 65% harvested, 52% 1984. Winter wheat 1% poor, 13% fair, 55% good, 31% excellent. Oats 8% headed, 30% 1984; 32% turning yellow, 50% 1984; 37% ripe, 17% 1984, 23% harvested, 3% 1984. Oats 2% poor, 11% fair, 46% good, 41% excellent. Barley 1% turning yellow, 7% 1984; 12% ripe, 9% 1984; 87% harvested, 84% 1984. Second cutting alfalfa 79% complete, 50% 1984. First cutting clo-tim virtually complete, 92% 1984. Quality of hay 9% poor, 24% fair, 67% good. Feed from pasture 42% below avg., 49% avg., 9% above avg. Activities: Harvesting hay, wheat, oats, peaches, apples, garden vegetables; baling straw; spraying alfalfa.

**PUERTO RICO:** Island average rainfall 1.12 in., 0.17 in. below normal. Highest weekly total 4.18 in. Highest 24-hour total 2.20 in. Temperature averaged above 81 to 830 on coasts and 75 to 790 interior divisions. Mean station temperatures ranged from 68 to 830. Extremes 620; 940. Total rainfall 0.24 in. minus 0.89 in.

**SOUTH CAROLINA:** Week end wetter, not hot as usual. First of week quite warm; persistent cloudiness, precipitation. Daily values below normal remainder of period. Rains associated with

hurricane Bob kept temperatures below normal, precipitation above normal. Winds exceeding 70 mph Charleston - damage minimal.

Days available for field activities 3.1. Soil moisture 2% very short, 7% short, 80% adequate, 11% surplus. Soybeans 21% fair, 79% good. Soybeans blooming 35%, 13% 1984, 23% avg.; setting pods 6%, 3% 1984, none avg. Cotton 56% fair, 44% good. Cotton squared 100%; 90% setting bolls, 82% 1984, 92% avg. Tobacco good; 28% harvested, 37% 1984, 37% avg. Peaches fair; 85% harvested, 76% 1984, 74% avg. Apples fair; 9% harvested, none 1984. Pastures, hay fair to good.

**SOUTH DAKOTA:** Average temperatures ranged 5 below to 40 above normal. Extremes: 34; 104. Outside Black Hills low 44. Rainfall light western one-third except Black Hills. Scattered heavy rainfall central, east.

Days suitable for fieldwork 4.9. Topsoil moisture adequate most of eastern one-third, short central and southeast, critically short west; 24% critically short, 27% short, 44% adequate, 5% surplus. Corn 1% very poor, 1% poor, 15% fair, 63% good, 20% excellent. Corn 35% silked, 18% 1984, 33% avg. Corn none dough, none 1984, none avg. Winter wheat 85% harvested, 50% 1984, 64% avg. Spring wheat 30% harvested, 7% 1984, 26% avg. Sorghum 6% very poor, 3% poor, 17% fair, 64% good, 10% excellent. Sorghum 10% headed, 6% 1984, 13% avg. Soybeans 5% fair, 81% good, 14% excellent. Soybeans 69% blooming, 36% 1984, 71% avg. Soybeans 15% podded, 7% 1984, 11% avg. Range, pastures good eastern one-third, fair central and south central, very poor southwest, poor elsewhere. Feed stockwater adequate eastern one-third and central, short elsewhere.

**TENNESSEE:** Above normal rainfall relieved moisture stress. Temperatures near normal.

Farmers averaged 5.2 days suitable for fieldwork. Soil moisture 68% short, 30% adequate, 2% surplus. Corn 90% tasseled, 80% 1984, 80% avg.; 45% dough, 20% 1984, 35% avg.; 15% dent, 7% 1984, 7% avg.; 6% poor, 26% fair, 53% good, 15% excellent. Cotton 97% squaring, 95% 1984, 95% avg.; 55% setting bolls, 40% 1984, 45% avg.; 8% fair, 71% good, 21% excellent. Sorghum 55% headed; 8% colored; 3% poor, 25% fair, 65% good, 7% excellent. Soybeans 40% blooming, 40% 1984, 40% avg.; 14% setting pods, 5% 1984, 8% avg.; 6% poor, 41% fair, 46% good, 7% excellent. Tobacco 35% topped; 1% very poor, 14% poor, 52% fair, 32% good, 1% excellent. Pasture 7% very poor, 22% poor, 44% fair, 22% good, 5% excellent.

**TEXAS:** Dry condition intensified south, Gulf Coast under high pressure, several cool fronts repeating storms High Plains, Edwards Plateau 22nd, 25th. Locally heavy amounts temporary flash flood warnings Cross Timbers, Edwards Plateau. Cooling breezes cut off from Gulf. Conditions unusually wet, cool High Plains, Low Plains, Trans-Pecos, Edwards Plateau. Temperatures normal south, east. Rainfall below normal Gulf Coast, south, east.

Crops: Grain sorghum 70% headed, 66% 1984, 72% avg.; 54% turning color, 58% 1984, 61% avg.; 35% mature, 47% 1984, 48% avg.; 22% harvested for grain, 40% 1984, 38% avg. Condition 88% of normal, 66% 1984. Sorghum 17% fair, 67% good, 16% excellent. Harvest good progress Blacklands southward. Hot, dry conditions aided progress. Reported yields excellent. Plains sorghum boot stage, some fields beginning to head. Recent rainfall beneficial to crop development. Corn 90% silked; 67% doughing; 57% dented; 26% mature; 5% harvested, 16% 1984, 10% avg. Condition 89% of normal, 72% 1984. Corn 19% fair, 58% good, 23% excellent. Fields continued excellent progress.

Hot, dry conditions helped corn dry down rapidly central, southern areas producers harvested some fields as far north as Blacklands. Yields prospects appear excellent. Irrigation continued High Plains, rain also helped. Cotton 69% squaring, 82% 1984, 87% avg.; 27% setting bolls, 39% 1984, 43% avg.; 5% open bolls, 6% 1984, 6% avg.; 2% harvested, 2% 1984, 1% avg. Condition rated 80% of normal, 73% 1984. Cotton 1% poor, 42% fair, 43% good, 14% excellent. Fields benefitted from rain Low, High Plains. Wide range of development, present prospects appear good most areas. Cotton blooming, setting bolls most advanced fields. Blacklands, south hot, dry conditions helped open bolls at rapid rate. Some defoliation underway Coastal Bend southward. Across State insect problems relatively light. Rice 58% headed, 97% 1984, 97% avg.; 13% turning color, 65% 1984, 76% avg.; 3% harvested, 3% 1984, 19% avg. Condition 90% of normal. Rice 15% fair, 61% good, 24% excellent. Harvest continued along coast. Most rice later than usual, widespread harvest about two weeks away. Peanuts: Fields good progress across State; some fields missed rainfall under stress. Some leaf rust southern areas. Soybean: Progressing well. Most fields blooming. Rain helpful Plains. Early sunflowers blooming Plains. Other crops: Oats 100% harvested, 100% 1984, 100% avg.

**Commercial Vegetables:** Rio Grande Valley, land preparation fall vegetable crop active. Some planting activity started. Harvest most summer crops ended; light supplies tomatoes, okra still available. San Antonio-Winter Garden, summer vegetable harvest ended, land preparation underway fall crops. East, light supplies tomatoes, okra, peas, squash, melons, cucumbers, peppers. Hot temperatures slowing production. Sweetpotatoes reaching maturity, some fields may be harvested next week. High Plains, harvest onions, potatoes continued; low prices, poor market conditions slowed potato progress. Some sweet corn available. Peppers making good growth. Trans-Pecos, harvest cantaloups, onions continued. Some showers received. Late maturing peaches available north, east. Some brown rot continued. Pecans good progress, most nuts water to dough stage. Some insects present, spraying necessary.

**Range and Livestock:** Ranges, pastures benefitted from rain over western, northern portions. With hot temperatures, benefits "short lived," rains provide mid-summer boost. Conditions remain dry, forage turning brown southern areas. Haying remained active, supplies being replenished. Livestock good condition; flies, insects causing some problems. Goat shearing about to begin.

**UTAH:** Thunderstorms resulted in precipitation at 44 out of 45 reporting stations. Amounts ranged from trace to extremely heavy. Maximum temperatures 5 to 70 below normal, minimums right at normal with exception of Uinta Basin 40 above.

Rain general over State limited fieldwork to 5.4 days. Despite rain soil moisture still short to adequate. Winter wheat, barley harvest continued. Winter wheat 91% ripe; 27% harvested; barley 63% ripe; 27% harvested. Spring wheat 22% ripe, oats 24% ripe. Corn averaged 64 in. height. Alfalfa 2nd cut 41% complete. Rain caught considerable hay in swath. Harvest of Tart cherries, apricots winding down.

**VIRGINIA:** Typical warm, humid July weather. Temperatures averaged near normal. Widespread showers, thunderstorms last half of period. Average precipitation 1.50 in., range 0.50 to 3.00 in. Most rain in southeast region.

Days suitable for fieldwork averaged 5.1. Topsoil moisture 43% short, 46% adequate, 11% surplus. Week's end, crop conditions improving with frequent rain showers. Corn mostly good. Corn 76% in silk or beyond, 70% 1984, 79% avg. Corn 34% dough stage or beyond, 26% 1984. Soybeans remain mostly good. Soybeans 22% in or beyond bloom, 19% 1984. Soybeans 4% setting pods, 4% 1984. Peanut remain mostly excellent, early harvest expected. Tobacco good to excellent, sucker control and topping active on all types. Flue-cured tobacco harvest 3% complete, 5% 1984, 10% avg. Fire-cured harvest just beginning. Special flue-cured tobacco sales. Apple harvest in progress. Harvest of small peach crop almost 50% complete. Harvesting cabbage, cantalopes. Inspecting watermelons, no problems found. Hay, pasture fair to good. Rains boosting conditions. Livestock good to excellent.

**WASHINGTON:** Hot, dry condition prevailed through out week. No rain reported except for occasional drizzle on north coast. Temperatures reached 100° in few areas.

Days suitable for fieldwork 7.0. Soil moisture 56% short, 44% adequate. Hot, dry condition continued. Range, pasture 75% short, 25% adequate. Winter wheat harvest 28% current, 15% 1984, 27% avg. Peach, apricot, raspberry, blueberry harvests continued. Small grain, mint, vegetable harvest advanced.

**WEST VIRGINIA:** Temperatures averaged near normal. Low 43° at Greenbank; high 92° at Williamson. Weekly average 71°. Precipitation slightly above normal. Most rainfall 2.83 in. Martinsburg, least Parkersburg 0.03 in. Weekly average 1.06 in.

Days worked 4.6. Soil moisture adequate to short. Harvesting hay and small grains, clipping pastures.

**WISCONSIN:** Average temperatures 1 to 4° below normal. Precipitation 1.00 to 1.50 in. north, 1.20 to 3.00 in. central, 1.20 to 3.00 in. south.

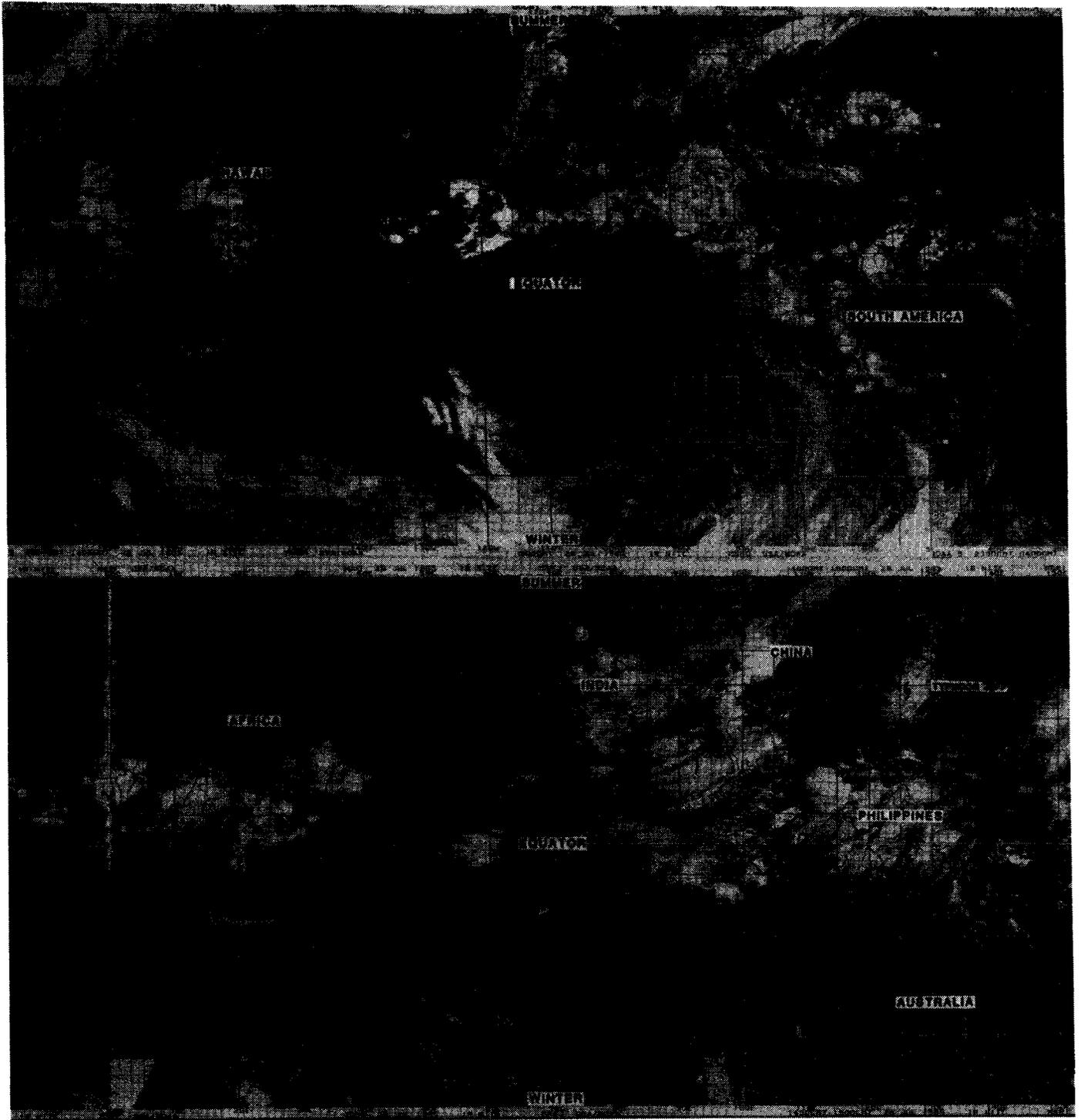
Days suitable for fieldwork 5.3. Soil moisture 64% short, 36% adequate. General crop condition, 4% very poor, 16% poor, 45% fair, 33% good, 2% excellent. Corn 5% very poor, 11% poor, 42% fair, 37% good, 5% excellent; avg. height 63 in., 64 in. 1984, 66 in. avg.; silked 43%, 37% 1984, 37% avg.; dough 5%, 1% 1984, 2% avg. Second cutting of hay 66% complete, 41% 1984, 54% avg.; yields very poor due to moisture shortages. Pasture 53% of normal, 83% 1984, 75% avg. Oats 100% headed, 100% 1984, 100% avg.; 19% harvested, 7% 1984, 9% avg.; yield average with short straw. Winter wheat harvest in full swing. Soybeans fair to good, bloom extreme south. Tobacco topping out south.

**WYOMING:** Temperature averages near normal. Snake, upper Platte drainages above normal precipitation, elsewhere below normal.

Days suitable for fieldwork 6.0. Topsoil moisture 75% short, 25% adequate; 1984 40% short, 60% adequate. Winter wheat 5% turning color, 20% 1984; 45% mature, 70% 1984; 50% harvested, 5% 1984, 15% avg.; most harvested for hay. Barley 25% headed, 30% 1984; 45% turning color, 45% 1984; 25% mature, 25% 1984; 5% harvested. Spring wheat 20% headed, 40% 1984; 35% turning color, 40% 1984, 60% avg.; 35% mature, 20% 1984, 15% avg.; 10% harvested. Oats 30% headed, 50% 1984; 45% turning color, 40% 1984; 20% mature, 10% 1984; 5% harvested. First cutting alfalfa hay 95% complete, 90% 1984, 90% avg. Second cut 15% complete, 5% 1984, 5% avg. Other hays 55% harvested, 50% 1984, 45% avg. Dry beans 60% in bloom, 65% 1984, 55% avg. Potatoes 75% in bloom, 85% 1984, 50% avg. Corn 50% tasseled, 45% 1984, 25% avg.; 20% silked, 10% 1984. Range, pasture 70% poor, 15% fair, 15% good. Livestock mostly good. Fall, winter grazing prospects poor to fair. Cattle being sold due to poor grazing. Grasshopper damage widespread.

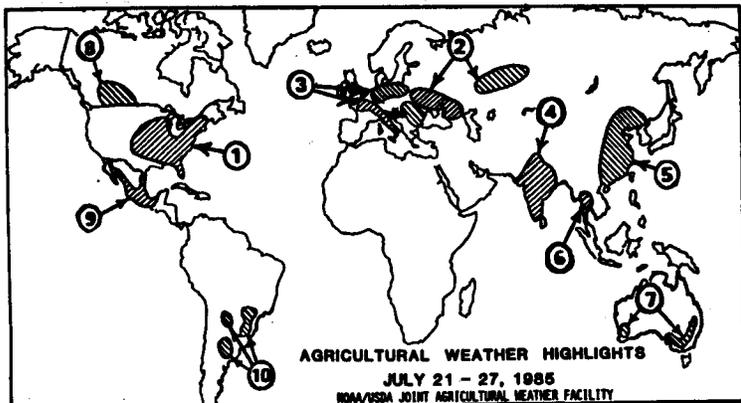
# GLOBAL WEATHER SATELLITE PHOTO

JULY 28



International Weather and Crop Summary

July 21 - 27

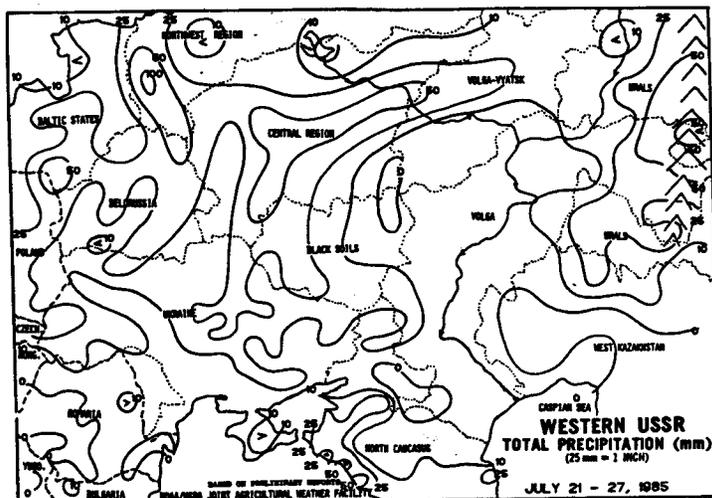
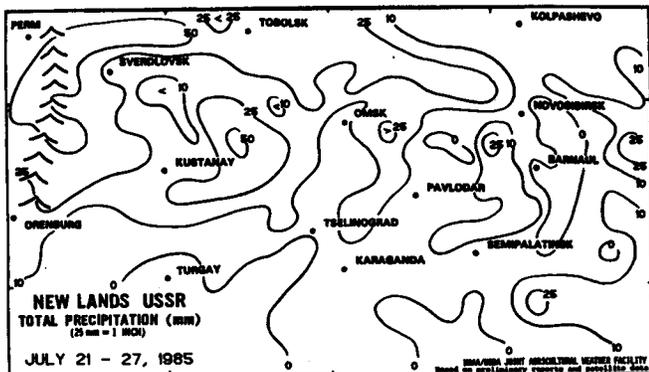


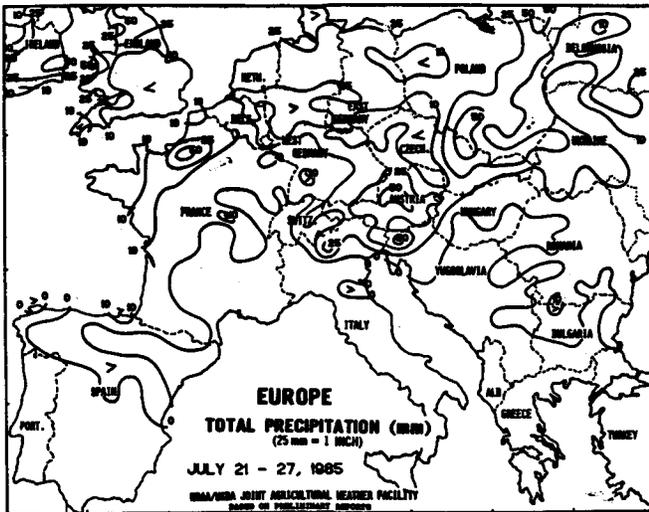
HIGHLIGHTS

1. **UNITED STATES** ... Hurricane Bob brings beneficial rain to much of the east coast. Rain was also scattered across the remaining eastern half of the Nation, but some parts of the Corn Belt and Great Plains need additional moisture.
2. **USSR** ... In Western USSR, weather conditions in the south were mostly favorable for harvesting. In the New Lands, widespread showers benefited spring grains.
3. **EUROPE** ... Dry weather in France, Hungary, Italy, Romania, and Bulgaria aids winter wheat harvesting. Light showers in northern Europe benefit spring grains.
4. **SOUTH ASIA** ... Increased rain benefits most of the cotton and groundnut region. Moisture is adequate for vegetative rice.
5. **EASTERN ASIA** ... Variable rain favors rice along the south coast and summer crops in the North China Plain.
6. **SOUTHEAST ASIA** ... Moisture is generally adequate for Thailand's corn and rice, but this week's rainfall is below average.
7. **AUSTRALIA** ... Moderate rain benefits wheat in the west, while dry weather covers most of the east.
8. **CANADA** ... Light showers and lower temperatures across the Prairies slow crop deterioration in the south and west, following early-week hot weather.
9. **MEXICO** ... Only light rain falls over much of the southern Plateau corn belt. Northeastern dryness continues to favor the grain harvest.
10. **SOUTH AMERICA** ... Beneficial rain in Argentina stimulates wheat planting, delayed by an extended dry spell. Dryness aids Brazil's citrus and coffee harvest.

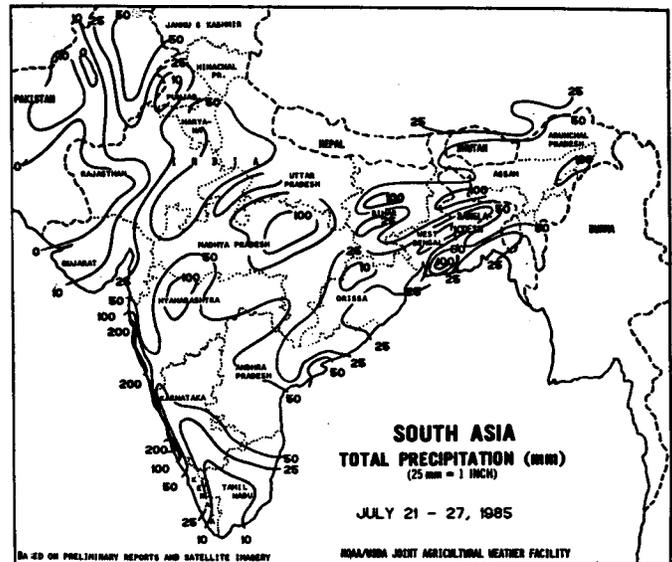
**USSR...**Light showers (around 10 mm) covered the Ukraine and North Caucasus, benefiting corn in the reproductive stage. Several days of dry weather in these areas aided winter and spring grain harvesting. Reports indicate that as of July 22, small grains and pulses, excluding corn, were about 10 percent harvested. Wet weather (25-50 mm), and below-normal temperatures in Belorussia, the Northwest region, and the Central Region slowed winter grain maturation. In contrast, dry weather in the eastern Black Soils and the Volga Valley favored grain maturation. Spring grains are likely in the filling stage across the northern half of Western USSR.

In the New Lands, widespread showers (10-25 mm) continued over most spring grain areas. Heaviest amounts of precipitation (25-50 mm) fell over spring grains in the northern Urals and crop areas between Kustanay and Omsk. The only grain areas which did not receive rain were in a narrow band that stretched northward from Semipalatinsk, through Barnaul, into Novosibirsk. Spring grains are likely in the filling stage in southern crop areas, and in the reproductive growth stage in central and northern areas. In South Central USSR cotton areas, temperatures have been favorable for cotton, normally in the flowering stage. Most of the cotton crop in these areas is irrigated.

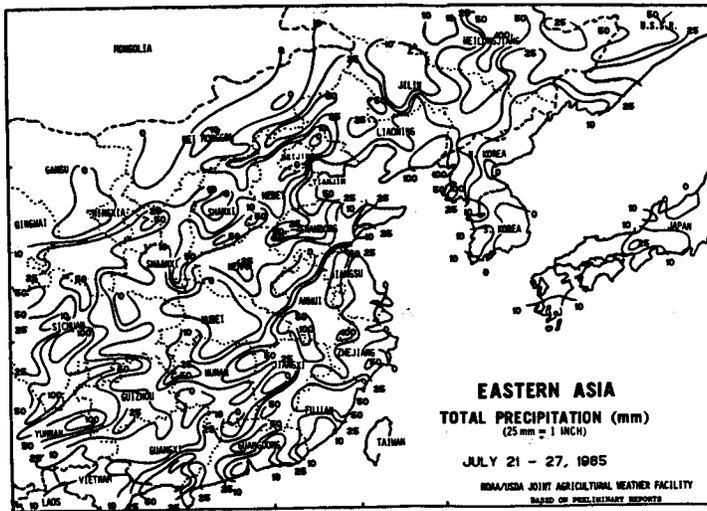




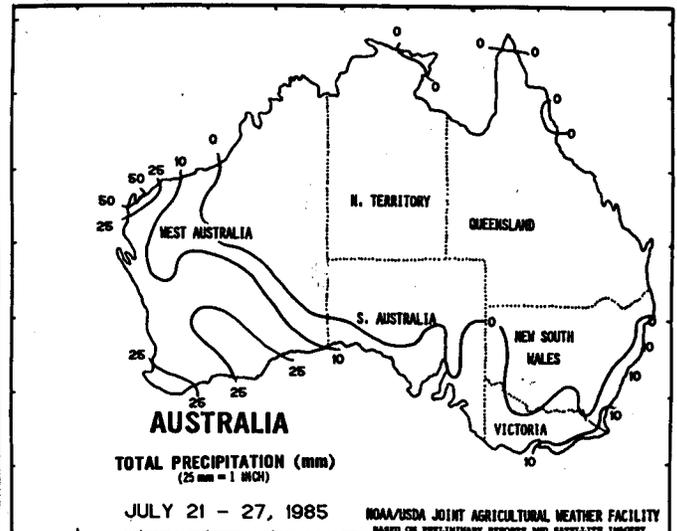
**EUROPE...**Mostly dry weather covered the southern half of the region, while light showers (10-25 mm) covered the north. In France, spotty showers fell over major corn producing areas in the southwest. Some of the corn crop is in the moisture sensitive tasseling/silking stages, and additional showers are needed. Further north, several days of sunny, dry weather in central France favored winter grain maturation and aided harvesting. In northern Europe, light showers covered most crop areas, favoring spring sown crops. Mostly dry weather in the southeast aided winter grain harvesting. Spring sown crops in these areas would still benefit from additional moisture.



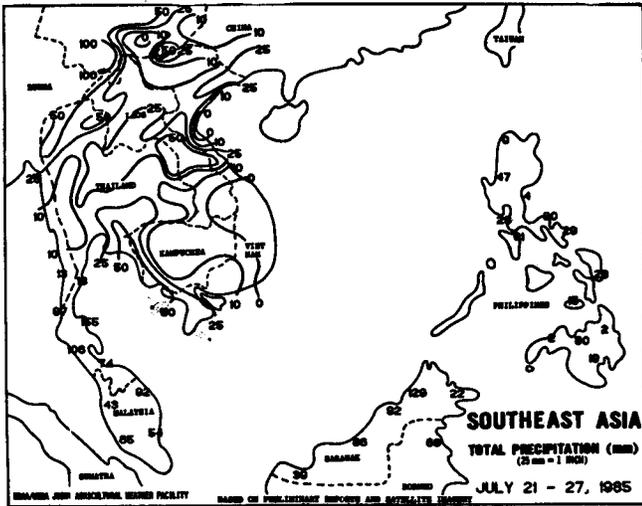
**SOUTH ASIA...**Precipitation increased in the south this week. Moderate to heavy rain (25-100 mm) benefited early growth of cotton and groundnuts in Karnataka, Andhra Pradesh, Maharashtra, western Madhya Pradesh, and eastern Gujarat. Earlier dry weather had delayed cotton and groundnut planting and was unfavorable for establishment. Heavy rain fell along the west coast, heaviest in coastal Maharashtra (250 mm), possibly damaging vegetative growth of autumn rice. Much of the eastern rice region benefited from moderate to heavy rain, 25-100 mm. In spite of the relatively drier weather in Orissa, moisture is adequate for planting and early growth of winter rice. Moderate rain benefited cotton and rice in Punjab, Pakistan.



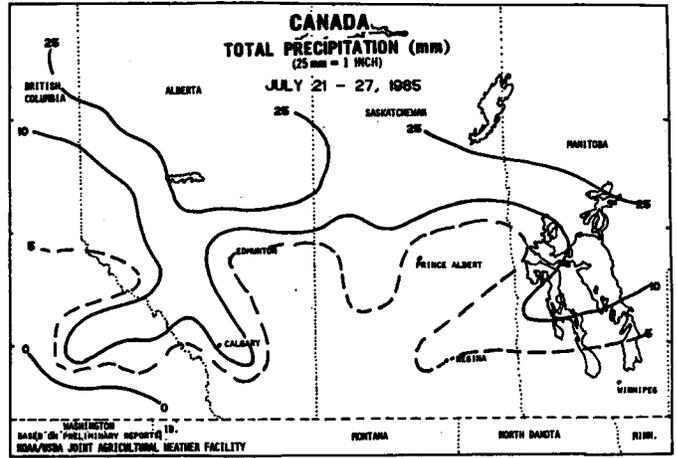
**EASTERN ASIA...**Variable rain fell in China's agricultural regions. Moderate rain (25-75 mm) benefited late rice in Guangdong and Fujian and intermediate rice in the lower Yangtze Valley. Relatively dry weather favored early rice harvesting in Hunan and Jiangxi. A relatively dry region extended from Hubei into southern Shandong. Light to moderate rain in Shandong and Henan benefited early corn and soybeans in the filling stage and late corn and soybeans entering the reproductive stage. Inundating rain, as much as 300 mm, in eastern Liaoning for the second consecutive week damaged corn. Beneficial rain spread into the major crop areas in the Manchurian Valley.



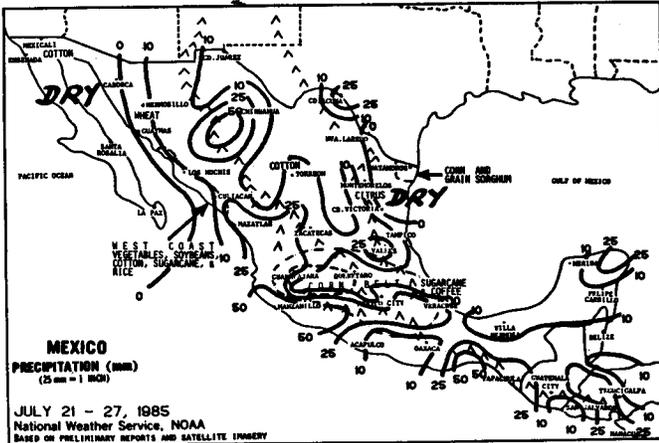
**AUSTRALIA...**Only widely scattered light showers fell in the eastern wheat belt this week. Queensland and New South Wales were mostly dry while 1-5 mm of rain fell in parts of South Australia and Victoria. Wheat is in a semi-arid state at this time of the season and the crop moisture demand is at a minimum. However, soil moisture is limited throughout most of the region and must be replenished so the crop's development will not be adversely affected. Moderate rain (10-30 mm) in Western Australia benefited recently planted wheat in the northern crop region. Temperatures averaged slightly above normal, increasing soil evaporation.



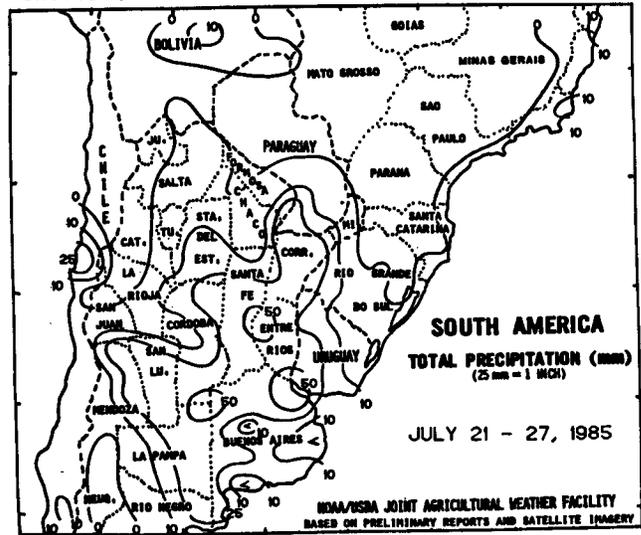
**SOUTHEAST ASIA...**The weather pattern was similar to the previous week with mostly below-average rainfall over the region. In Thailand, eastern and northern crop areas benefited from 25-50 mm, aiding corn in reproductive and grain filling stages, rainfed rice and irrigation reservoirs. Light rain (10-20 mm) fell in south-central irrigated rice areas. Heavier showers (50-100 mm) fell in southern peninsular Thailand, extreme western Kampuchea and Malaysia. Substantial showers also fell over northern portions of Laos and Vietnam, as well as Vietnam's major south coastal rice area. Limited station coverage and satellite photos suggest that mostly light rain fell over eastern Kampuchea, southern Laos, and central Vietnam. In the Philippines, rainfall was highly variable throughout the islands, with locally heavy showers scattered over Mindanao. Weekly amounts were below average in Luzon and the central islands.



**CANADA...**Another brief episode of hot weather early in the week aggravated crop stress in the western and southern Prairies. Light rain and lower temperatures slowed crop deterioration in the southwestern grain belt by midweek. Weekly rainfall was generally less than 5 mm in the major growing areas. Heavier showers (10-30 mm) fell over extreme northern crop areas, maintaining favorable growing conditions. Crops were poor in southwestern Saskatchewan and southern Alberta. Spring wheat is mostly in the grain filling period, with about 5 percent of the crop beginning to ripen in Alberta and Saskatchewan. Rapeseed podding reportedly reached over 30 percent in Alberta, 20 percent in Saskatchewan but less than 20 percent in Manitoba.



**MEXICO...**Widespread, light rain dotted most principal agricultural areas, supplying about half of the optimum moisture needed. However, rain was heavy in a few spots, such as over parts of the southern and southwestern coasts and western mountain watersheds. Rain benefitted north central rangeland vegetation and crops. In contrast, the continued dryness over the upper northeast favored harvest of grain sorghum and corn, but caused citrus and young crops to need frequent irrigations.



**SOUTH AMERICA...**Widespread, substantial showers fell over most of Argentina's major crop areas, improving wheat planting conditions following the extended dry spell. Weekly rainfall generally averaged 25-50 mm over southern Cordoba, Santa Fe, northern and western Buenos Aires and eastern La Pampa, while 8-20 mm fell over the remainder of Buenos Aires. The much-needed moisture stimulated planting, which had fallen behind schedule, and aided early-planted crop establishment. A strong ridge of high pressure off the Brazilian coast maintained dry weather until late in the week over most of Brazil's crop areas. Light showers fell over southern Rio Grande do Sul. Wheat is mostly in vegetative growth, with less than adequate moisture supplies for crop development in Parana. Some early wheat may have already reached heading. Dry conditions aided citrus and coffee harvesting.

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(Continued from p. 1)

SATURDAY...Showers and thunderstorms covered the Southeast. Heavy rain caused local flooding in parts of northern Alabama and Georgia. Showers also covered the central and southern Plateau, the central Rockies, and the northern Plains. Cool weather covered the Great Lakes region, but warm weather continued over the West.

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