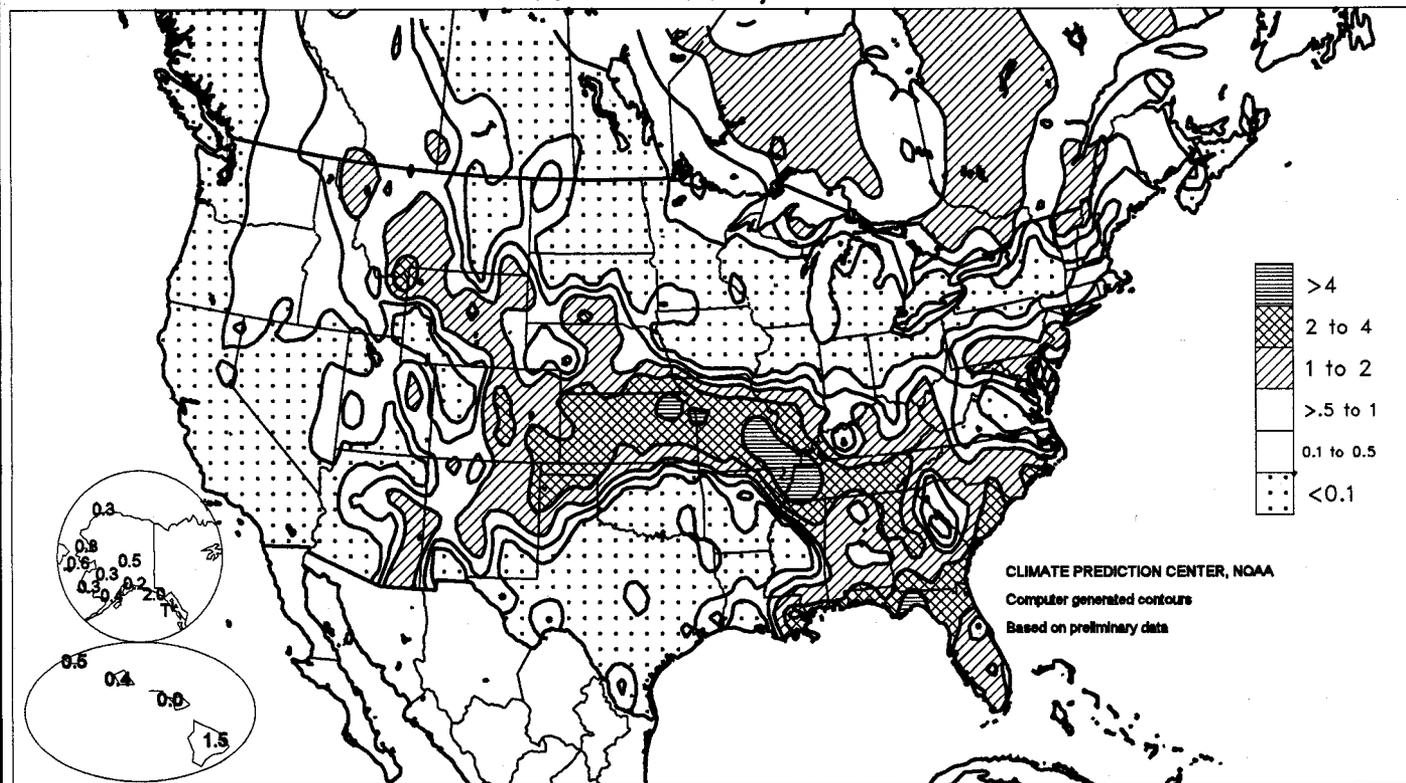


# WEEKLY WEATHER AND CROP BULLETIN

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

U.S. DEPARTMENT OF AGRICULTURE  
National Agricultural Statistics Service  
and World Agricultural Outlook Board

**Total Precipitation (Inches)**  
**JUL 26 - AUG 1, 1998**



## HIGHLIGHTS

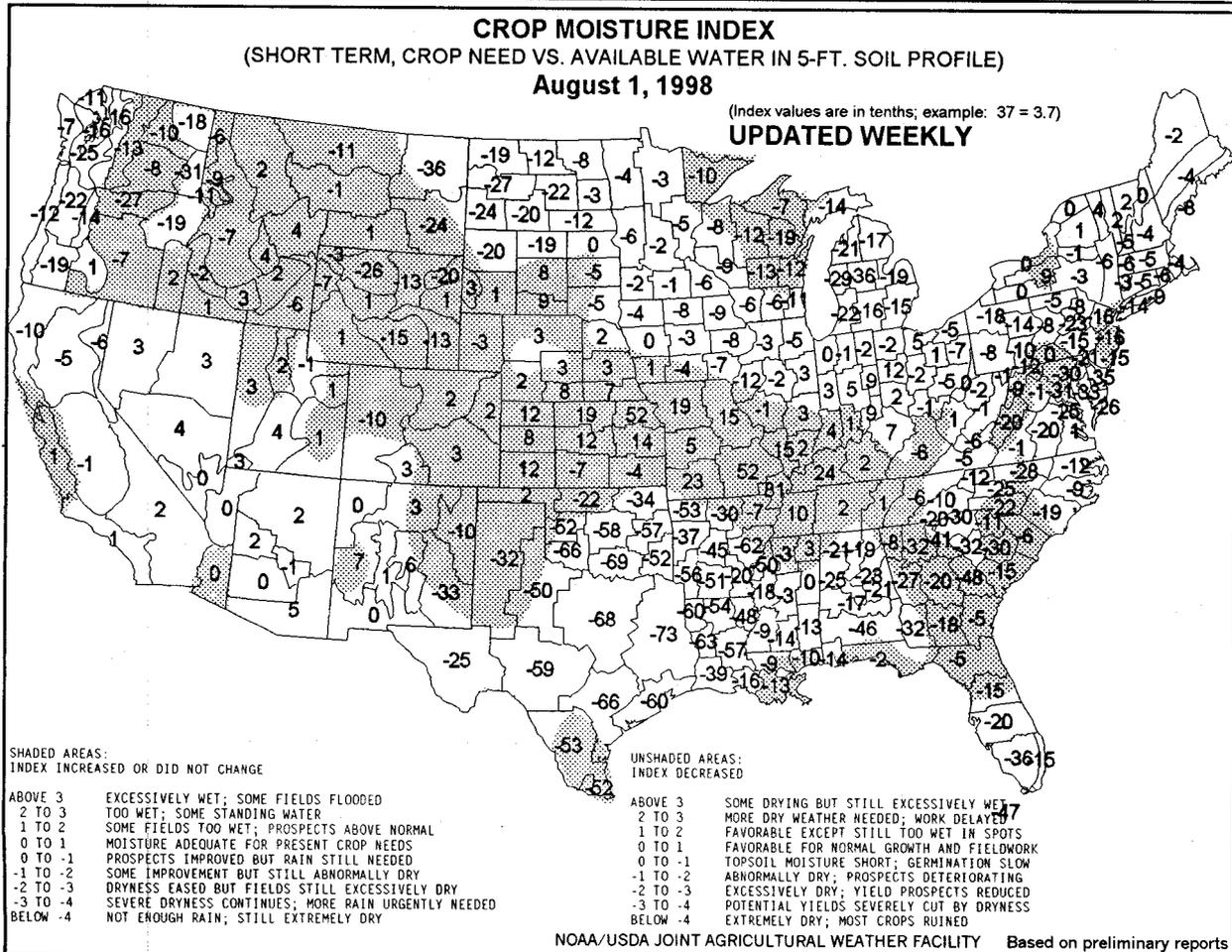
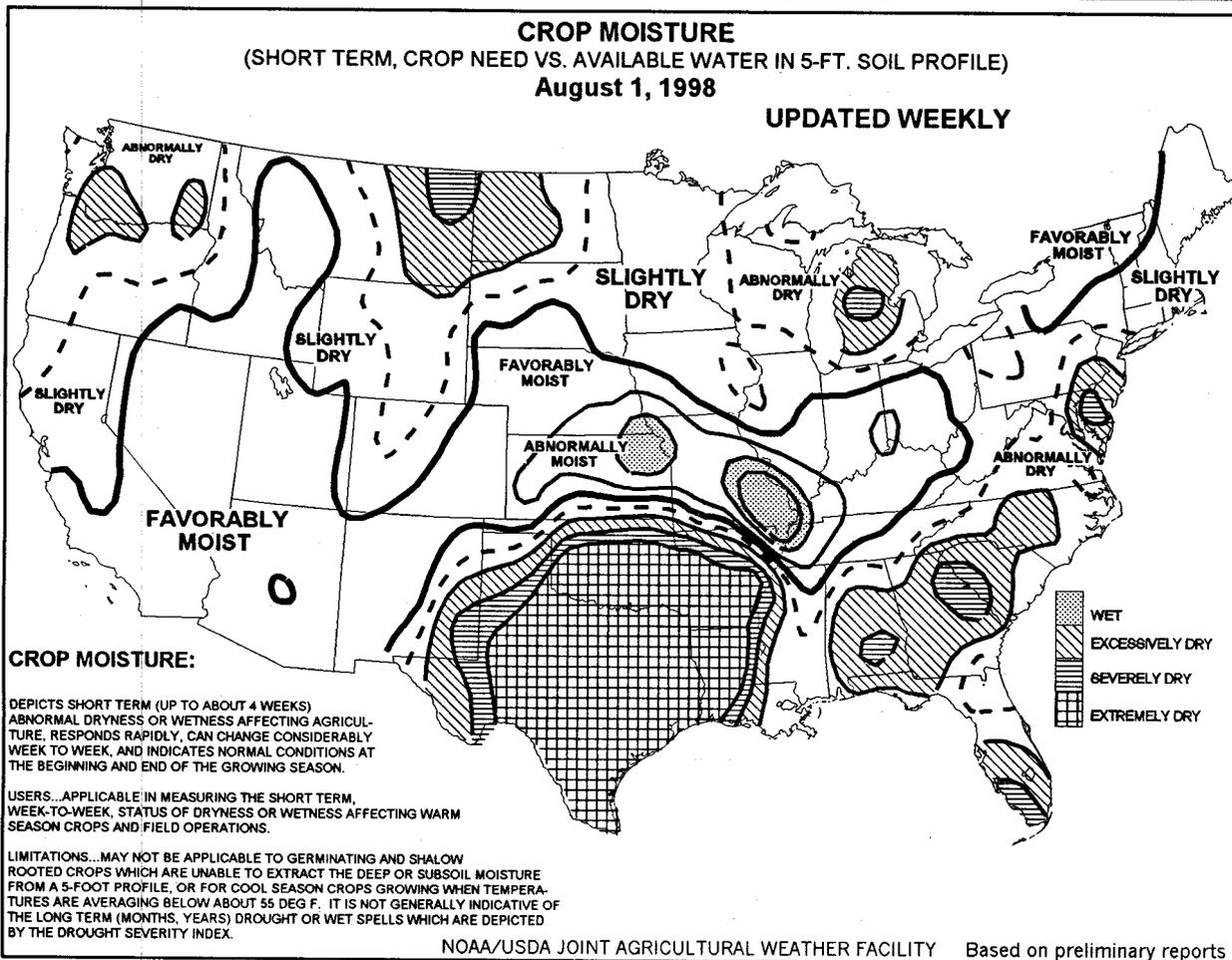
July 26 - August 1, 1998

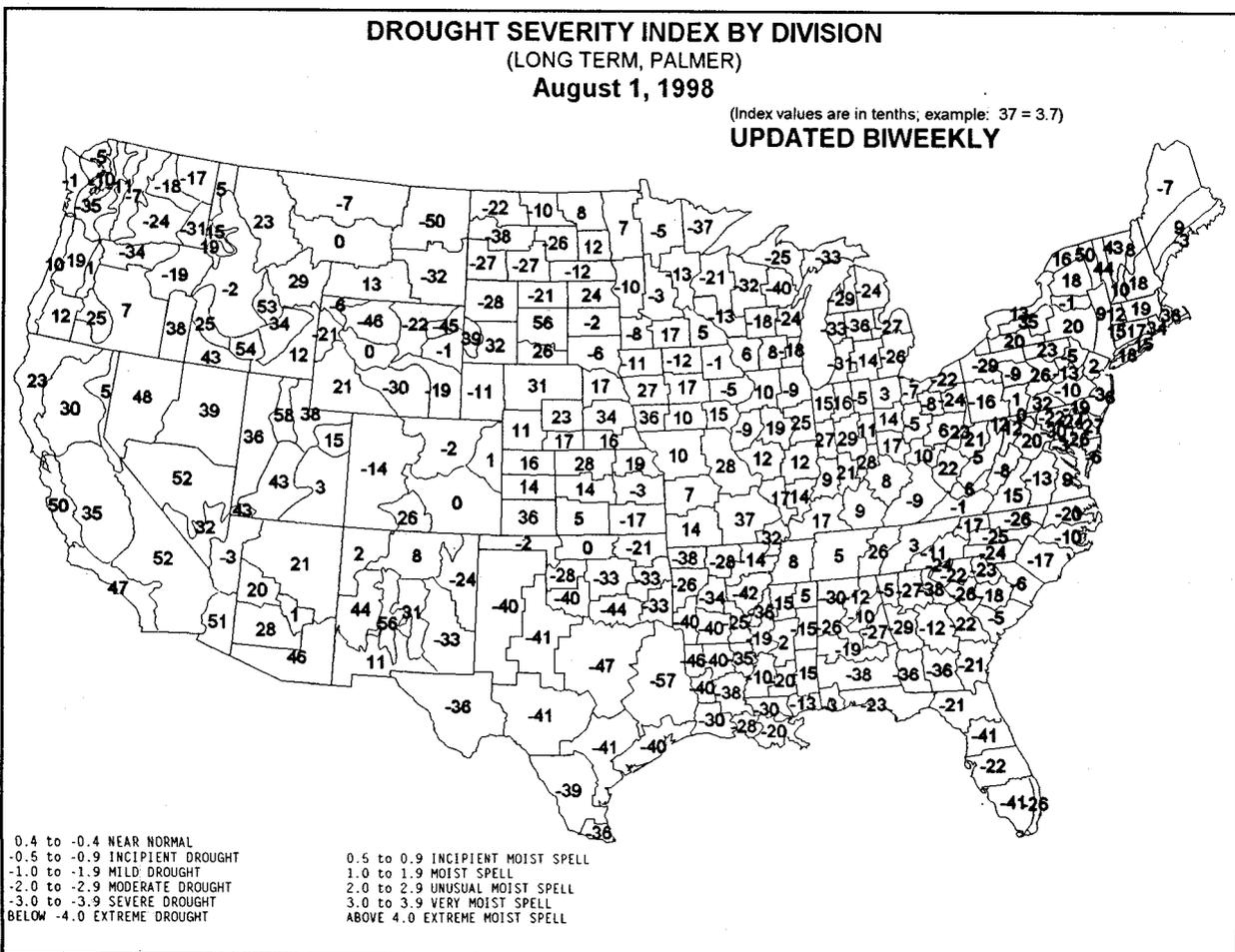
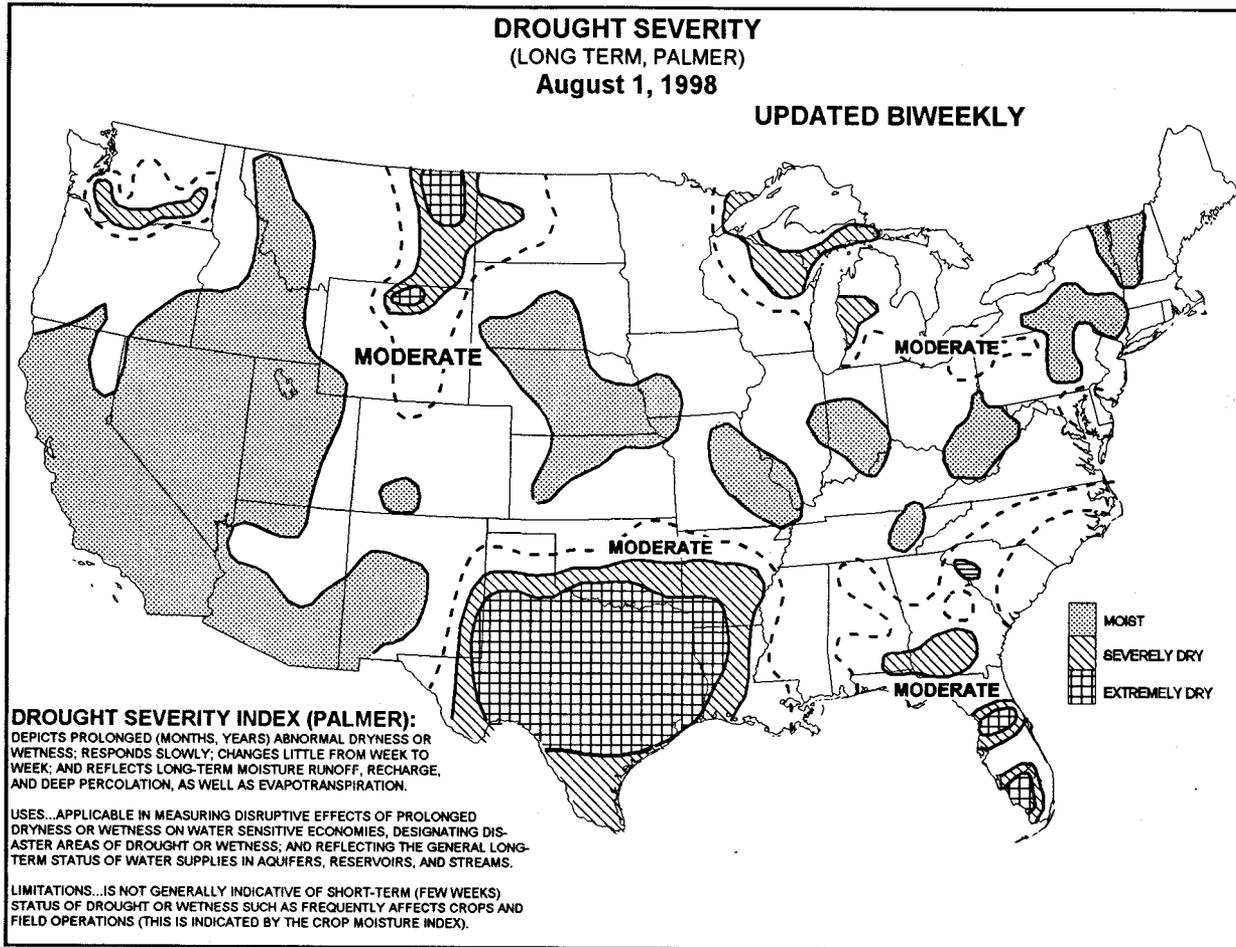
**H**igh temperatures were mostly below 90°F across the **Midwest**, benefiting reproductive corn and soybeans. **Midwestern** soil moisture remained mostly adequate despite generally dry weather, but became slightly short in some northern areas. On the **central Plains**, significant rain fell for the second consecutive week, boosting soil moisture but causing localized flooding. Continuing a month-long trend, showers dampened portions of the **Southeast**, easing stress on crops. Farther west, however, drought intensified under extremely hot, dry conditions in the **South Central States**. In the **Northwest**, hot weather favored small grain ripening and harvesting.

(Continued on page 5)

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(Continued from front cover)

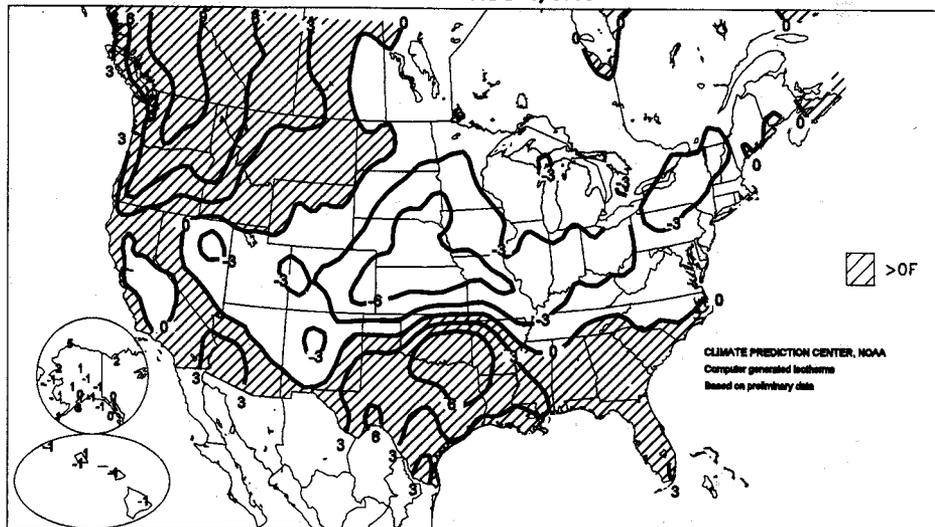
Weekly temperatures ranged from 2 to 9°F in the drought region (eastern New Mexico and most of Texas, Oklahoma, Arkansas, and Louisiana). Nationally, more than five dozen daily-record highs were set during the week, more than half of which were set in the South Central States. Most of the rest occurred in the Northwest, where weekly departures reached +10°F. In contrast, below-normal readings prevailed from the central Plains and upper Midwest into the Northeast, with temperatures as much as 8°F below normal in Kansas.

The week opened with three consecutive daily-record highs in locations such as Olympia, WA (96, 99, and 100°F) and The Dalles, OR (111, 112, and 110°F). Meanwhile, heat briefly returned to the Southwest, where daily records were established on Tuesday in Yuma, AZ (118°F) and Lancaster, CA (108°F). A day earlier, highs in southern California had soared to 123°F in Thermal and 124°F in Death Valley.

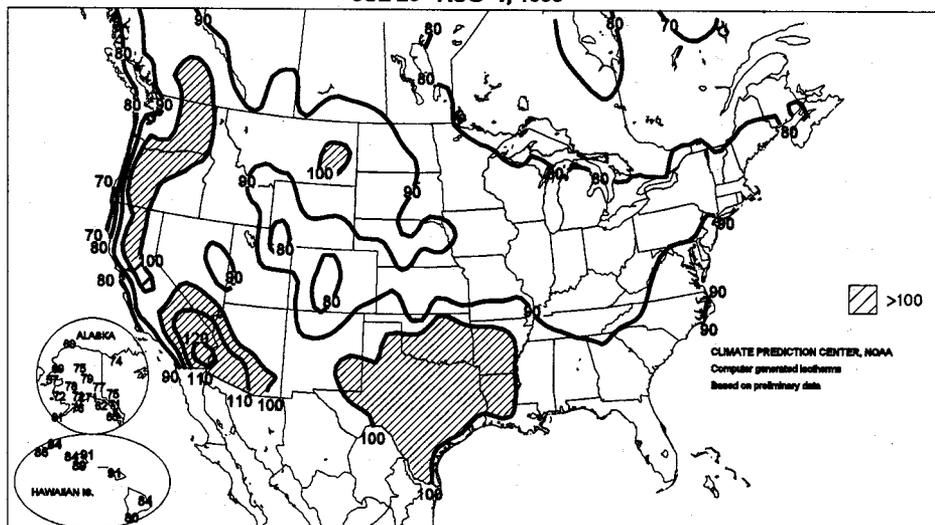
The week closed with six consecutive daily records in Tyler, TX (102, 103, 101, 104, 104, and 104°F). In Shreveport, LA highs reached 107°F on July 31 and August 1, with the first reading tying their July record last set in 1901. Elsewhere in Louisiana, Alexandria's high of 107°F on Saturday tied their all-time record. In Texas, stretches of 100-degree heat continued through week's end in Dallas-Ft. Worth and Waco, reaching consecutive 27 days (July 6 - August 1) in both locations (the longest since identical, record-setting, 42-day streaks from June 23 - August 3, 1980). In Oklahoma City, OK, a 15-day (starting July 18) streak of triple-digit readings became their longest since July 1966.

For the year through August 1, Dallas-Ft. Worth's 40 days of 100-degree readings stood behind only 1980 (69 days), 1954 (52 days), 1956 (48 days), and 1952 (44 days). With a high of 100°F on Saturday, San Antonio, TX marked its record-tying 33rd day of triple-digit heat this year, last observed in 1948. Elsewhere in Texas, April-June rainfall was the lowest on record in locations such as San Antonio (1.41 inches, or 11 percent of normal), Lub-

Departure of Average Temperature from Normal (°F)  
JUL 26 - AUG 1, 1998



Extreme Maximum Temperature (°F)  
JUL 26 - AUG 1, 1998



bock (1.98 inches; 23 percent), and Houston (5.79 inches; 34 percent). On the southern Plains, where spotty dryness developed earlier, Midland's year-to-date precipitation through July stood at the second-lowest level on record (2.13 inches, or 28 percent of normal), slightly ahead of 1951's 2.02-inch total.

Farther north, monthly rainfall in Topeka, KS reached 9.32 inches. Combined with a 7.22-inch June total, Topeka's 2-month total of 16.54 inches accounted for 47 percent of their normal annual total. Weekly rainfall was especially heavy, topping 4 inches, in parts of northeastern Kansas and northern Florida, and in a swath from southeastern Missouri to western Tennessee. Monthly rainfall totaled 9.96 inches in Memphis, TN--a July record--and 16.40 inches in Tallahassee, FL.

Cooler air edged southward through the Plains during the week, reinforced across the North toward week's end. On Monday in Texas, Amarillo's 41-streak of 90-degree heat--their second-longest on record behind a 46-day stretch in 1934--ended with a high of 89°F. A day earlier, Columbia, MO had reported a high of 69°F. On the last day of July, International Falls, MN notched a daily-record low of 42°F, and a day later, minima dipped to 46°F in Youngstown, OH and 49°F in Binghamton, NY. Meanwhile, rain overspread the northern Plains, resulting in a daily-record rainfall for Williston, ND (1.19 inches on August 1). A day later, Billings, MT recorded their heaviest 1-day rainfall (1.20 inches) since July 20, 1997.

# National Weather Data for Selected Cities

Weather Data for the Week Ending August 1, 1998

Data Provided by Climate Prediction Center (301-763-8000 EXT. 7511) and the Southern Regional Climate Center

| STATES AND STATIONS | TEMPERATURE °F  |                 |              |             |         |                       | PRECIPITATION     |                       |                          |                       |                         |                       |                         |                 | RELATIVE HUMIDITY, PERCENT |              | NUMBER OF DAYS |              |              |                 |                 |  |  |
|---------------------|-----------------|-----------------|--------------|-------------|---------|-----------------------|-------------------|-----------------------|--------------------------|-----------------------|-------------------------|-----------------------|-------------------------|-----------------|----------------------------|--------------|----------------|--------------|--------------|-----------------|-----------------|--|--|
|                     | AVERAGE MAXIMUM | AVERAGE MINIMUM | EXTREME HIGH | EXTREME LOW | AVERAGE | DEPARTURE FROM NORMAL | WEEKLY TOTAL, IN. | DEPARTURE FROM NORMAL | GREATEST IN 24-HOUR, IN. | TOTAL IN. SINCE JAN 1 | PCT. NORMAL SINCE JAN 1 | TOTAL IN. SINCE JAN 1 | PCT. NORMAL SINCE JAN 1 | AVERAGE MAXIMUM | AVERAGE MINIMUM            | 90 AND ABOVE | 92 AND BELOW   | TEMP. °F     |              | 50 INCH OR MORE | 60 INCH OR MORE |  |  |
|                     |                 |                 |              |             |         |                       |                   |                       |                          |                       |                         |                       |                         |                 |                            |              |                | 50 AND ABOVE | 52 AND BELOW |                 |                 |  |  |
| AL BIRMINGHAM       | 90              | 73              | 94           | 71          | 82      | 2                     | 2.23              | 1.12                  | 1.28                     | 10.96                 | 120                     | 44.98                 | 129                     | 100             | 82                         | 6            | 0              | 3            | 1            |                 |                 |  |  |
| HUNTSVILLE          | 87              | 73              | 92           | 70          | 80      | 0                     | 0.62              | -0.40                 | 0.34                     | 6.73                  | 74                      | 32.16                 | 90                      | 89              | 66                         | 1            | 0              | 6            | 0            |                 |                 |  |  |
| MOBILE              | 94              | 75              | 97           | 71          | 84      | 2                     | 0.75              | -0.89                 | 0.69                     | 9.77                  | 81                      | 48.85                 | 125                     | 100             | 80                         | 7            | 0              | 4            | 1            |                 |                 |  |  |
| MONTGOMERY          | 94              | 73              | 99           | 71          | 83      | 2                     | 0.01              | -1.09                 | 0.01                     | 7.87                  | 86                      | 32.94                 | 97                      | 93              | 52                         | 7            | 0              | 1            | 0            |                 |                 |  |  |
| AK ANCHORAGE        | 67              | 50              | 72           | 44          | 59      | 0                     | 0.37              | -0.09                 | 0.15                     | 4.01                  | 137                     | 5.74                  | 87                      | 96              | 56                         | 0            | 0              | 3            | 0            |                 |                 |  |  |
| BARROW              | 53              | 36              | 60           | 30          | 45      | 5                     | 0.29              | 0.04                  | 0.20                     | 0.59                  | 47                      | 0.99                  | 50                      | 99              | 72                         | 0            | 2              | 4            | 0            |                 |                 |  |  |
| FAIRBANKS           | 70              | 52              | 79           | 49          | 61      | -1                    | 0.51              | 0.06                  | 0.26                     | 4.70                  | 142                     | 5.20                  | 94                      | 95              | 49                         | 0            | 0              | 3            | 0            |                 |                 |  |  |
| JUNEAU              | 68              | 47              | 71           | 42          | 58      | 2                     | 0.08              | -0.97                 | 0.08                     | 8.18                  | 110                     | 21.02                 | 83                      | 97              | 56                         | 0            | 0              | 1            | 0            |                 |                 |  |  |
| KODIAK              | 67              | 50              | 76           | 44          | 59      | 3                     | 0.08              | -0.81                 | 0.08                     | 14.74                 | 171                     | 62.88                 | 177                     | 87              | 50                         | 0            | 0              | 1            | 0            |                 |                 |  |  |
| NOME                | 56              | 47              | 57           | 44          | 51      | -1                    | 0.63              | 0.06                  | 0.63                     | 3.16                  | 94                      | 10.33                 | 156                     | 97              | 80                         | 0            | 0              | 1            | 1            |                 |                 |  |  |
| AZ FLAGSTAFF        | 79              | 50              | 82           | 49          | 66      | -2                    | 1.28              | 0.65                  | 1.14                     | 4.72                  | 143                     | 14.83                 | 122                     | 92              | 32                         | 0            | 0              | 3            | 1            |                 |                 |  |  |
| PHOENIX             | 107             | 86              | 112          | 84          | 97      | 3                     | 0.04              | -0.18                 | 0.02                     | 1.94                  | 198                     | 7.00                  | 196                     | 48              | 20                         | 7            | 0              | 2            | 0            |                 |                 |  |  |
| TUCSON              | 98              | 76              | 104          | 72          | 86      | 0                     | 0.90              | 0.30                  | 0.51                     | 4.57                  | 169                     | 9.97                  | 183                     | 63              | 25                         | 7            | 0              | 2            | 1            |                 |                 |  |  |
| YUMA                | 111             | 85              | 118          | 83          | 98      | 4                     | 0.00              | -0.10                 | 0.00                     | 0.09                  | 30                      | 1.68                  | 131                     | 59              | 18                         | 7            | 0              | 0            | 0            |                 |                 |  |  |
| FORT SMITH          | 104             | 76              | 107          | 74          | 90      | 8                     | 0.00              | -0.86                 | 0.00                     | 5.85                  | 90                      | 25.27                 | 105                     | 88              | 29                         | 7            | 0              | 0            | 0            |                 |                 |  |  |
| AR LITTLE ROCK      | 97              | 78              | 102          | 74          | 88      | 5                     | 0.98              | 0.19                  | 0.98                     | 4.81                  | 66                      | 25.53                 | 85                      | 88              | 45                         | 7            | 0              | 1            | 1            |                 |                 |  |  |
| BAKERSFIELD         | 95              | 69              | 102          | 59          | 82      | -3                    | 0.00              | 0.00                  | 0.00                     | 0.30                  | 273                     | 11.68                 | 305                     | 69              | 29                         | 6            | 0              | 0            | 0            |                 |                 |  |  |
| CA EUREKA           | 66              | 56              | 70           | 52          | 60      | 2                     | 0.00              | -0.07                 | 0.00                     | 0.49                  | 75                      | 41.06                 | 196                     | 99              | 76                         | 0            | 0              | 1            | 0            |                 |                 |  |  |
| FRESNO              | 96              | 67              | 104          | 59          | 81      | -1                    | 0.00              | 0.00                  | 0.00                     | 1.93                  | 2757                    | 15.97                 | 230                     | 75              | 28                         | 5            | 0              | 0            | 0            |                 |                 |  |  |
| LOS ANGELES         | 78              | 65              | 84           | 63          | 72      | 1                     | 0.00              | 0.00                  | 0.00                     | 0.08                  | -                       | 23.83                 | 308                     | 93              | 64                         | 0            | 0              | 0            | 0            |                 |                 |  |  |
| REDDING             | 98              | 68              | 107          | 62          | 82      | 0                     | 0.00              | -0.04                 | 0.00                     | 1.87                  | 260                     | 47.40                 | 250                     | 79              | 20                         | 6            | 0              | 0            | 0            |                 |                 |  |  |
| SACRAMENTO          | 90              | 59              | 98           | 55          | 75      | -2                    | 0.00              | 0.00                  | 0.00                     | 0.29                  | 193                     | 23.44                 | 218                     | 88              | 38                         | 3            | 0              | 0            | 0            |                 |                 |  |  |
| SAN DIEGO           | 76              | 68              | 79           | 64          | 70      | -2                    | 0.00              | 0.00                  | 0.00                     | 0.30                  | 333                     | 14.27                 | 231                     | 91              | 68                         | 0            | 0              | 0            | 0            |                 |                 |  |  |
| SAN FRANCISCO       | 71              | 58              | 79           | 55          | 64      | 1                     | 0.00              | 0.00                  | 0.00                     | 0.03                  | 25                      | 28.58                 | 233                     | 93              | 62                         | 0            | 0              | 0            | 0            |                 |                 |  |  |
| ALAMOSA             | 77              | 50              | 82           | 48          | 64      | -1                    | 0.51              | 0.23                  | 0.30                     | 2.09                  | 111                     | 3.24                  | 82                      | 97              | 40                         | 0            | 0              | 6            | 0            |                 |                 |  |  |
| CO CO SPRINGS       | 77              | 58              | 80           | 54          | 68      | -3                    | 2.59              | 1.88                  | 1.87                     | 6.66                  | 127                     | 11.56                 | 113                     | 97              | 52                         | 0            | 0              | 6            | 1            |                 |                 |  |  |
| DENVER              | 81              | 60              | 84           | 54          | 70      | -4                    | 0.37              | -0.04                 | 0.12                     | 8.89                  | 183                     | 12.30                 | 121                     | 92              | 45                         | 0            | 0              | 5            | 0            |                 |                 |  |  |
| GRAND JUNCTION      | 88              | 64              | 92           | 59          | 78      | -3                    | 0.18              | 0.01                  | 0.14                     | 1.76                  | 148                     | 5.01                  | 106                     | 75              | 28                         | 3            | 0              | 4            | 0            |                 |                 |  |  |
| PUEBLO              | 84              | 60              | 91           | 58          | 72      | -5                    | 1.70              | 1.18                  | 0.91                     | 3.10                  | 91                      | 8.03                  | 116                     | 98              | 43                         | 1            | 0              | 5            | 2            |                 |                 |  |  |
| BRIDGEPORT          | 81              | 66              | 87           | 60          | 74      | -1                    | 0.41              | -0.42                 | 0.39                     | 6.06                  | 82                      | 32.41                 | 129                     | 82              | 48                         | 0            | 0              | 2            | 0            |                 |                 |  |  |
| CT HARTFORD         | 83              | 60              | 89           | 52          | 71      | -3                    | 0.48              | -0.25                 | 0.47                     | 9.40                  | 133                     | 31.95                 | 126                     | 88              | 40                         | 0            | 0              | 2            | 0            |                 |                 |  |  |
| WASHINGTON          | 88              | 70              | 95           | 65          | 79      | -1                    | 0.46              | -0.43                 | 0.27                     | 6.21                  | 85                      | 30.28                 | 136                     | 86              | 44                         | 3            | 0              | 3            | 0            |                 |                 |  |  |
| DE WILMINGTON       | 84              | 66              | 90           | 61          | 75      | -2                    | 0.34              | -0.58                 | 0.28                     | 6.84                  | 87                      | 26.52                 | 108                     | 70              | 24                         | 1            | 0              | 2            | 0            |                 |                 |  |  |
| FL DAYTONA BEACH    | 93              | 74              | 97           | 73          | 84      | 2                     | 0.53              | -0.71                 | 0.39                     | 6.47                  | 56                      | 22.33                 | 86                      | 98              | 56                         | 6            | 0              | 3            | 0            |                 |                 |  |  |
| JACKSONVILLE        | 92              | 74              | 95           | 72          | 83      | 1                     | 2.35              | 0.92                  | 1.07                     | 11.30                 | 98                      | 34.40                 | 120                     | 98              | 56                         | 6            | 0              | 5            | 2            |                 |                 |  |  |
| KEY WEST            | 90              | 81              | 92           | 78          | 86      | 1                     | 0.20              | -0.85                 | 0.16                     | 2.13                  | 24                      | 14.43                 | 74                      | 84              | 64                         | 6            | 0              | 2            | 0            |                 |                 |  |  |
| MIAMI               | 91              | 80              | 92           | 76          | 85      | 3                     | 1.23              | -0.05                 | 0.84                     | 12.92                 | 85                      | 30.58                 | 99                      | 83              | 58                         | 7            | 0              | 3            | 1            |                 |                 |  |  |
| ORLANDO             | 94              | 74              | 96           | 73          | 84      | 1                     | 0.86              | -0.72                 | 0.55                     | 10.21                 | 69                      | 30.85                 | 108                     | 98              | 50                         | 6            | 0              | 3            | 1            |                 |                 |  |  |
| PENSACOLA           | 91              | 78              | 93           | 73          | 83      | 1                     | 1.97              | 0.25                  | 0.75                     | 11.37                 | 81                      | 38.36                 | 102                     | 98              | 65                         | 6            | 0              | 6            | 1            |                 |                 |  |  |
| TALLAHASSEE         | 94              | 74              | 96           | 71          | 84      | 2                     | 7.24              | 5.26                  | 2.48                     | 18.39                 | 115                     | 38.56                 | 94                      | 98              | 54                         | 7            | 0              | 6            | 3            |                 |                 |  |  |
| TAMPA               | 91              | 77              | 92           | 73          | 84      | 2                     | 2.56              | 0.95                  | 1.77                     | 17.37                 | 141                     | 40.36                 | 164                     | 89              | 60                         | 6            | 0              | 2            | 2            |                 |                 |  |  |
| WEST PALM BEACH     | 92              | 77              | 93           | 76          | 85      | 2                     | 0.00              | -1.28                 | 0.00                     | 10.96                 | 76                      | 35.49                 | 109                     | 90              | 54                         | 7            | 0              | 0            | 0            |                 |                 |  |  |
| GA ATHENS           | 89              | 73              | 94           | 69          | 81      | 1                     | 0.21              | -0.85                 | 0.21                     | 4.39                  | 49                      | 37.00                 | 116                     | 94              | 52                         | 4            | 0              | 1            | 0            |                 |                 |  |  |
| ATLANTA             | 87              | 72              | 90           | 71          | 79      | 0                     | 0.73              | -0.36                 | 0.72                     | 6.52                  | 75                      | 32.11                 | 99                      | 95              | 59                         | 1            | 0              | 2            | 0            |                 |                 |  |  |
| AUGUSTA             | 93              | 72              | 96           | 67          | 83      | 2                     | 0.20              | -0.80                 | 0.20                     | 4.95                  | 58                      | 34.10                 | 119                     | 96              | 48                         | 6            | 0              | 1            | 0            |                 |                 |  |  |
| COLUMBUS            | 92              | 75              | 95           | 74          | 84      | 2                     | 0.12              | -1.05                 | 0.08                     | 5.82                  | 60                      | 23.08                 | 69                      | 94              | 55                         | 6            | 0              | 4            | 0            |                 |                 |  |  |
| MACON               | 93              | 73              | 95           | 72          | 83      | 1                     | 2.37              | 1.41                  | 1.00                     | 8.14                  | 77                      | 31.13                 | 107                     | 99              | 55                         | 6            | 0              | 4            | 2            |                 |                 |  |  |
| SAVANNAH            | 91              | 73              | 95           | 72          | 82      | 0                     | 1.89              | 0.31                  | 1.23                     | 10.24                 | 83                      | 36.27                 | 121                     | 98              | 61                         | 6            | 0              | 4            | 1            |                 |                 |  |  |
| HI HILO             | 82              | 67              | 84           | 65          | 75      | -1                    | 1.85              | -0.65                 | 1.10                     | 17.42                 | 108                     | 47.71                 | 64                      | 91              | 62                         | 0            | 0              | 6            | 1            |                 |                 |  |  |
| HONOLULU            | 87              | 74              | 89           | 73          | 80      | -1                    | 0.00              | -0.13                 | 0.00                     | 0.44                  | 38                      | 2.44                  | 21                      | 79              | 47                         | 0            | 0              | 0            | 0            |                 |                 |  |  |
| KAHULUI             | 88              | 69              | 91           | 65          | 78      | -1                    | 0.00              | -0.11                 | 0.00                     | 0.16                  | 24                      | 2.56                  | 20                      | 88              | 49                         | 1            | 0              | 0            | 0            |                 |                 |  |  |
| LIHUE               | 84              | 72              | 84           | 71          | 78      | -1                    | 1.02              | 0.54                  | 0.83                     | 4.20                  | 109                     | 15.03                 | 63                      | 90              | 63                         | 0            | 0              | 5            | 1            |                 |                 |  |  |
| ID BOISE            | 94              | 67              | 99           | 60          | 80      | 5                     | 0.43              | 0.37                  | 0.35                     | 1.70                  | 147                     | 12.02                 | 165                     | 66              | 25                         | 5            | 0              | 2            | 0            |                 |                 |  |  |
| LEWISTON            | 96              | 68              | 105          | 61          | 82      | 7                     | 0.00              | -0.14                 | 0.00                     | 3.19                  | 164                     | 11.20                 | 146                     | 71              | 24                         | 5            | 0              | 0            | 0            |                 |                 |  |  |
| POCATELLO           | 88              | 58              | 94           | 50          | 72      | 0                     | 0.06              | -0.08                 | 0.03                     | 1.84                  | 109                     | 9.30                  | 125                     | 90              | 33                         | 3            | 0              | 3            | 0            |                 |                 |  |  |
| IL CHICAGO/O'HARE   | 83              | 63              | 89           | 56          | 73      | 0                     | 0.00              | -0.87                 | 0.00                     | 4.65                  | 62                      | 19.89                 | 99                      | 86              | 39                         | 0            | 0              | 0            | 0            |                 |                 |  |  |
| MOLINE              | 84              | 60              | 89           | 55          | 72      | -3                    | 0.00              | -1.09                 | 0.00                     | 8.86                  | 95                      | 27.81                 | 119                     | 98              | 44                         | 0            | 0              | 0            | 0            |                 |                 |  |  |
| PEORIA              | 83              | 62              | 88           | 57          | 73      | -3                    | 0.00              | -0.86                 | 0.00                     | 6.83                  | 82                      | 27.30                 | 126                     | 92              | 47                         | 0            | 0              | 0            | 0            |                 |                 |  |  |
| ROCKFORD            | 81              | 58              | 85           | 52          | 70      | -4                    | 0.01              | -0.90                 | 0.01                     | 9.95                  | 114                     | 25.40                 | 121                     | 90              | 43                         | 0            | 0              | 1            | 0            |                 |                 |  |  |
| SPRINGFIELD         | 81              | 61              | 87           | 57          | 71      | -5                    | 0.50              | -0.27                 | 0.49                     | 12.11                 | 172                     | 31.59                 | 151                     | 96              | 50                         | 0            | 0              | 2            | 0            |                 |                 |  |  |
| IN EVANSVILLE       | 82              | 66              | 85           | 64          | 74      | -4                    | 0.95              | 0.08                  | 0.84                     | 9.19                  | 120                     | 29.82                 | 110                     | 96              | 63                         | 0            | 0              | 4            | 1            |                 |                 |  |  |
| FORT WAYNE          | 80              | 58              | 83           | 55          | 69      | -5                    | 0.01              | -0.77                 | 0.01                     | 8.97                  | 126                     | 26.54                 | 129                     | 96              | 52                         | 0            | 0              | 1            | 0            |                 |                 |  |  |
| INDIANAPOLIS        | 82              | 63              | 89           | 60          | 72      | -3                    | 0.53              | -0.47                 | 0.37                     | 14.23                 | 176                     | 34.43                 | 141                     | 90              | 51                         | 0            | 0              | 2            | 0            |                 |                 |  |  |
| SOUTH BEND          | 83              | 60              | 89           | 58          | 71      | -2                    | 0.00              | -0.83                 | 0.00                     | 6.29                  | 78                      | 22.01                 | 99                      | 90              | 38                         | 0            | 0              | 0            | 0            |                 |                 |  |  |
| IA BURLINGTON       | 86              | 65              | 91           | 59          | 76      | 0                     | 0.01              | -0.82                 | 0.01                     | 9.20                  | 109                     | 29.77                 | 142                     | 84              | 48                         | 1            | 0              | 1            | 0            |                 |                 |  |  |
| CEDAR RAPIDS        | 83              | 57              | 89           | 54          | 70      | -4                    | 0.00              | -0.91                 | 0.00                     | 9.14                  | 104                     | 25.50                 | 127                     | 92              | 46                         | 0            | 0              | 0            | 0            |                 |                 |  |  |
| DES MOINES          | 82              | 63              | 88           | 59          | 73      | -4                    | 0.00              | -0.87                 | 0.00                     | 16.42                 | 197                     | 29.51                 | 149                     | 89              | 52                         | 0            | 0              | 0            | 0            |                 |                 |  |  |
| DUBU                |                 |                 |              |             |         |                       |                   |                       |                          |                       |                         |                       |                         |                 |                            |              |                |              |              |                 |                 |  |  |

Weather Data for the Week Ending August 1, 1998

| STATES AND STATIONS | TEMPERATURE °F  |                 |              |             |         |                       | PRECIPITATION     |                       |                          |                      |                         |                      |                         |                 | RELATIVE HUMIDITY, PERCENT |              | NUMBER OF DAYS |                  |                 |         |  |
|---------------------|-----------------|-----------------|--------------|-------------|---------|-----------------------|-------------------|-----------------------|--------------------------|----------------------|-------------------------|----------------------|-------------------------|-----------------|----------------------------|--------------|----------------|------------------|-----------------|---------|--|
|                     | AVERAGE MAXIMUM | AVERAGE MINIMUM | EXTREME HIGH | EXTREME LOW | AVERAGE | DEPARTURE FROM NORMAL | WEEKLY TOTAL, IN. | DEPARTURE FROM NORMAL | GREATEST IN 24-HOUR, IN. | TOTAL IN SINCE JUN 1 | PCT. NORMAL SINCE JUN 1 | TOTAL IN SINCE JUN 1 | PCT. NORMAL SINCE JUN 1 | AVERAGE MAXIMUM | AVERAGE MINIMUM            | 80 AND ABOVE | 82 AND BELOW   | TEMP. °F         |                 | PRECIP. |  |
|                     |                 |                 |              |             |         |                       |                   |                       |                          |                      |                         |                      |                         |                 |                            |              |                | .01 INCH OR MORE | 50 INCH OR MORE |         |  |
| KY                  | WICHITA         | 85              | 70           | 93          | 67      | 78                    | -4                | 1.88                  | 1.06                     | 0.79                 | 5.57                    | 74                   | 16.15                   | 90              | 98                         | 63           | 1              | 0                | 4               | 1       |  |
|                     | JACKSON         | 81              | 64           | 86          | 61      | 73                    | -2                | 0.84                  | -0.47                    | 0.46                 | 10.78                   | 113                  | 38.11                   | 126             | 82                         | 68           | 0              | 0                | 3               | 0       |  |
|                     | LEXINGTON       | 82              | 64           | 87          | 61      | 73                    | -3                | 0.81                  | -0.30                    | 0.79                 | 18.80                   | 213                  | 41.16                   | 149             | 93                         | 57           | 0              | 0                | 3               | 1       |  |
| LA                  | LOUISVILLE      | 84              | 68           | 88          | 65      | 78                    | -1                | 2.06                  | 1.08                     | 1.14                 | 16.36                   | 202                  | 36.48                   | 131             | 88                         | 53           | 0              | 0                | 3               | 2       |  |
|                     | PADUCAH         | 82              | 68           | 88          | 64      | 75                    | -3                | 3.98                  | 3.12                     | 3.27                 | 19.02                   | 228                  | 38.99                   | 128             | 97                         | 71           | 0              | 0                | 4               | 1       |  |
|                     | BATON ROUGE     | 94              | 78           | 98          | 72      | 85                    | 2                 | 0.02                  | -1.56                    | 0.01                 | 6.07                    | 53                   | 36.04                   | 97              | 98                         | 51           | 7              | 0                | 2               | 0       |  |
|                     | LAKE CHARLES    | 96              | 78           | 99          | 75      | 86                    | 3                 | 0.00                  | -1.18                    | 0.00                 | 6.98                    | 68                   | 28.35                   | 92              | 95                         | 51           | 6              | 0                | 0               | 0       |  |
|                     | NEW ORLEANS     | 93              | 78           | 97          | 72      | 85                    | 3                 | 4.36                  | 2.98                     | 2.78                 | 9.94                    | 82                   | 44.28                   | 119             | 93                         | 58           | 6              | 0                | 4               | 2       |  |
| ME                  | SHREVEPORT      | 104             | 77           | 107         | 71      | 90                    | 7                 | 0.24                  | -0.46                    | 0.24                 | 4.19                    | 52                   | 22.44                   | 79              | 80                         | 28           | 7              | 0                | 1               | 0       |  |
|                     | CARIBOU         | 76              | 52           | 79          | 48      | 64                    | -1                | 0.53                  | -0.43                    | 0.36                 | 8.56                    | 121                  | 24.42                   | 126             | 99                         | 41           | 0              | 0                | 4               | 0       |  |
| MD                  | PORTLAND        | 80              | 59           | 84          | 53      | 69                    | 0                 | 0.51                  | -0.15                    | 0.51                 | 11.93                   | 180                  | 33.90                   | 136             | 92                         | 50           | 0              | 0                | 1               | 1       |  |
|                     | BALTIMORE       | 88              | 68           | 94          | 59      | 77                    | 0                 | 0.54                  | -0.32                    | 0.36                 | 4.85                    | 82                   | 28.74                   | 120             | 93                         | 48           | 2              | 0                | 2               | 0       |  |
| MA                  | BOSTON          | 81              | 66           | 90          | 62      | 74                    | 0                 | 1.07                  | 0.40                     | 0.83                 | 14.05                   | 233                  | 36.94                   | 164             | 92                         | 51           | 1              | 0                | 1               | 1       |  |
|                     | WORCESTER       | 78              | 60           | 82          | 57      | 69                    | -1                | 0.72                  | -0.12                    | 0.68                 | 11.43                   | 145                  | 34.22                   | 126             | 89                         | 52           | 0              | 0                | 2               | 0       |  |
| MI                  | ALPENA          | 80              | 51           | 83          | 46      | 68                    | -2                | 0.24                  | -0.45                    | 0.16                 | 4.00                    | 66                   | 19.45                   | 121             | 93                         | 32           | 0              | 0                | 2               | 0       |  |
|                     | GRAND RAPIDS    | 82              | 60           | 84          | 54      | 71                    | -1                | 0.05                  | -0.67                    | 0.04                 | 4.80                    | 66                   | 21.61                   | 112             | 86                         | 38           | 0              | 0                | 2               | 0       |  |
|                     | HOUGHTON LAKE   | 81              | 50           | 84          | 40      | 66                    | -2                | 0.01                  | -0.82                    | 0.01                 | 2.88                    | 50                   | 13.42                   | 88              | 94                         | 35           | 0              | 0                | 1               | 0       |  |
|                     | LANSING         | 83              | 56           | 88          | 47      | 69                    | -2                | 0.00                  | -0.57                    | 0.00                 | 5.51                    | 87                   | 19.16                   | 114             | 93                         | 37           | 0              | 0                | 0               | 0       |  |
|                     | MARQUETTE       | 74              | 48           | 78          | 43      | 61                    | -5                | 0.21                  | -0.42                    | 0.16                 | 3.85                    | 57                   | 8.48                    | 53              | 90                         | 38           | 0              | 0                | 2               | 0       |  |
| MN                  | MUSKEGON        | 80              | 59           | 84          | 55      | 70                    | -1                | 0.00                  | -0.56                    | 0.00                 | 2.37                    | 52                   | 14.38                   | 88              | 86                         | 44           | 0              | 0                | 0               | 0       |  |
|                     | DULUTH          | 77              | 53           | 80          | 47      | 65                    | -2                | 0.25                  | -0.58                    | 0.13                 | 7.75                    | 103                  | 17.88                   | 105             | 92                         | 44           | 0              | 0                | 2               | 0       |  |
|                     | INTL FALLS      | 76              | 50           | 79          | 42      | 63                    | -4                | 0.72                  | -0.03                    | 0.62                 | 6.51                    | 85                   | 14.05                   | 99              | 97                         | 46           | 0              | 0                | 2               | 1       |  |
|                     | MINNEAPOLIS     | 82              | 60           | 87          | 57      | 71                    | -3                | 0.08                  | -0.73                    | 0.04                 | 9.15                    | 119                  | 22.12                   | 128             | 88                         | 36           | 0              | 0                | 3               | 0       |  |
|                     | ROCHESTER       | 78              | 56           | 83          | 54      | 67                    | -4                | 0.05                  | -0.89                    | 0.05                 | 8.82                    | 109                  | 20.53                   | 117             | 93                         | 49           | 0              | 0                | 1               | 0       |  |
| MS                  | ST. CLOUD       | 81              | 53           | 84          | 48      | 67                    | -3                | 0.22                  | -0.50                    | 0.20                 | 7.81                    | 97                   | 15.75                   | 98              | 96                         | 41           | 0              | 0                | 3               | 0       |  |
|                     | JACKSON         | 96              | 78           | 98          | 73      | 88                    | 4                 | 0.01                  | -1.01                    | 0.01                 | 9.70                    | 124                  | 36.05                   | 105             | 93                         | 51           | 7              | 0                | 1               | 0       |  |
|                     | MERIDIAN        | 94              | 74           | 97          | 73      | 84                    | 2                 | 0.00                  | -1.11                    | 0.00                 | 11.29                   | 127                  | 39.81                   | 110             | 97                         | 54           | 7              | 0                | 0               | 0       |  |
| MO                  | TUPELO          | 89              | 73           | 95          | 70      | 81                    | 0                 | 0.94                  | 0.05                     | 0.51                 | 8.77                    | 106                  | 33.80                   | 97              | 99                         | 86           | 2              | 0                | 4               | 1       |  |
|                     | COLUMBIA        | 78              | 64           | 85          | 59      | 71                    | -7                | 2.89                  | 2.12                     | 1.62                 | 12.92                   | 160                  | 29.79                   | 127             | 98                         | 71           | 0              | 0                | 7               | 2       |  |
|                     | KANSAS CITY     | 78              | 65           | 86          | 61      | 72                    | -7                | 3.48                  | 2.54                     | 1.51                 | 14.19                   | 154                  | 23.67                   | 107             | 98                         | 74           | 0              | 0                | 4               | 3       |  |
| MT                  | SAINT LOUIS     | 81              | 66           | 89          | 61      | 73                    | -7                | 3.78                  | 2.98                     | 2.33                 | 13.35                   | 174                  | 33.41                   | 148             | 95                         | 60           | 0              | 0                | 4               | 2       |  |
|                     | SPRINGFIELD     | 84              | 70           | 90          | 67      | 77                    | -2                | 3.31                  | 2.71                     | 1.50                 | 11.07                   | 137                  | 30.99                   | 127             | 99                         | 67           | 1              | 0                | 6               | 3       |  |
|                     | BILLINGS        | 86              | 61           | 97          | 57      | 73                    | 0                 | 2.01                  | 1.84                     | 0.81                 | 4.65                    | 158                  | 9.36                    | 94              | 93                         | 36           | 2              | 0                | 4               | 2       |  |
|                     | BUTTE           | 80              | 54           | 90          | 50      | 67                    | 3                 | 0.97                  | 0.72                     | 0.37                 | 4.85                    | 141                  | 11.62                   | 145             | 90                         | 36           | 1              | 0                | 6               | 0       |  |
|                     | GLASGOW         | 90              | 82           | 101         | 56      | 76                    | 4                 | 0.27                  | -0.08                    | 0.24                 | 5.75                    | 149                  | 9.33                    | 127             | 89                         | 24           | 3              | 0                | 3               | 0       |  |
| NE                  | GREAT FALLS     | 84              | 59           | 93          | 52      | 71                    | 2                 | 0.78                  | 0.50                     | 0.39                 | 6.98                    | 190                  | 12.80                   | 126             | 83                         | 34           | 2              | 0                | 3               | 0       |  |
|                     | KALISPELL       | 86              | 58           | 95          | 54      | 72                    | 7                 | 0.95                  | 0.72                     | 0.58                 | 6.14                    | 183                  | 15.11                   | 152             | 96                         | 40           | 2              | 0                | 3               | 1       |  |
|                     | MILES CITY      | 91              | 66           | 103         | 63      | 79                    | 3                 | 0.06                  | -0.21                    | 0.02                 | 4.94                    | 113                  | 8.18                    | 85              | 85                         | 25           | 4              | 0                | 3               | 0       |  |
|                     | MISSOULA        | 85              | 58           | 95          | 55      | 71                    | 3                 | 0.44                  | 0.24                     | 0.23                 | 7.43                    | 271                  | 15.68                   | 184             | 92                         | 39           | 2              | 0                | 5               | 0       |  |
|                     | GRAND ISLAND    | 81              | 63           | 91          | 61      | 72                    | -5                | 0.48                  | -0.11                    | 0.35                 | 7.12                    | 104                  | 19.59                   | 121             | 97                         | 61           | 1              | 0                | 2               | 0       |  |
|                     | LINCOLN         | 82              | 63           | 91          | 60      | 73                    | -6                | 1.17                  | 0.45                     | 0.99                 | 8.80                    | 122                  | 21.62                   | 128             | 97                         | 60           | 1              | 0                | 3               | 1       |  |
|                     | NORFOLK         | 81              | 59           | 94          | 57      | 70                    | -5                | 0.72                  | 0.10                     | 0.71                 | 13.19                   | 170                  | 22.54                   | 133             | 96                         | 55           | 1              | 0                | 2               | 1       |  |
|                     | NORTH PLATTE    | 79              | 61           | 90          | 57      | 70                    | -6                | 0.87                  | 0.29                     | 0.54                 | 10.73                   | 165                  | 16.30                   | 117             | 98                         | 60           | 1              | 0                | 5               | 1       |  |
|                     | OMAHA           | 82              | 64           | 90          | 60      | 73                    | -4                | 0.44                  | -0.32                    | 0.39                 | 15.99                   | 214                  | 30.78                   | 169             | 96                         | 66           | 1              | 0                | 3               | 0       |  |
|                     | SCOTTSBLUFF     | 84              | 60           | 92          | 57      | 72                    | -3                | 0.50                  | 0.13                     | 0.20                 | 5.90                    | 124                  | 11.04                   | 99              | 96                         | 44           | 1              | 0                | 3               | 0       |  |
| NV                  | VALENTINE       | 80              | 60           | 90          | 55      | 70                    | -6                | 0.61                  | -0.04                    | 0.38                 | 11.22                   | 186                  | 16.80                   | 134             | 93                         | 51           | 1              | 0                | 3               | 0       |  |
|                     | ELY             | 85              | 49           | 88          | 40      | 67                    | -1                | 0.23                  | 0.06                     | 0.12                 | 3.22                    | 196                  | 8.47                    | 138             | 82                         | 19           | 0              | 0                | 3               | 0       |  |
|                     | LAS VEGAS       | 105             | 80           | 109         | 74      | 92                    | 1                 | 0.00                  | -0.11                    | 0.00                 | 0.49                    | 102                  | 4.85                    | 209             | 33                         | 13           | 7              | 0                | 0               | 0       |  |
|                     | RENO            | 91              | 59           | 97          | 52      | 75                    | 2                 | 0.00                  | -0.06                    | 0.00                 | 1.39                    | 190                  | 8.70                    | 189             | 81                         | 17           | 5              | 0                | 0               | 0       |  |
|                     | WINNEMUCCA      | 91              | 54           | 97          | 43      | 73                    | 0                 | 0.07                  | 0.01                     | 0.04                 | 0.96                    | 83                   | 10.31                   | 206             | 71                         | 21           | 4              | 0                | 3               | 0       |  |
| NH                  | CONCORD         | 82              | 54           | 86          | 46      | 68                    | -2                | 0.00                  | -0.75                    | 0.00                 | 9.84                    | 151                  | 25.82                   | 127             | 94                         | 37           | 0              | 0                | 0               | 0       |  |
|                     | NEWARK          | 87              | 69           | 94          | 63      | 78                    | -1                | 0.60                  | -0.43                    | 0.46                 | 7.30                    | 93                   | 33.53                   | 129             | 81                         | 38           | 2              | 0                | 3               | 0       |  |
| NM                  | ALBUQUERQUE     | 86              | 65           | 91          | 64      | 75                    | -3                | 0.38                  | 0.02                     | 0.18                 | 2.57                    | 127                  | 6.35                    | 143             | 82                         | 35           | 2              | 0                | 5               | 0       |  |
|                     | ALBANY          | 81              | 57           | 84          | 49      | 69                    | -3                | 0.18                  | -0.56                    | 0.16                 | 9.33                    | 135                  | 27.94                   | 134             | 94                         | 50           | 0              | 0                | 1               | 0       |  |
| NY                  | BINGHAMTON      | 78              | 57           | 81          | 49      | 67                    | -2                | 0.00                  | -0.77                    | 0.00                 | 7.69                    | 105                  | 28.87                   | 138             | 88                         | 43           | 0              | 0                | 0               | 0       |  |
|                     | BUFFALO         | 77              | 58           | 81          | 52      | 68                    | -4                | 0.14                  | -0.62                    | 0.08                 | 7.38                    | 109                  | 25.40                   | 124             | 92                         | 43           | 0              | 0                | 3               | 0       |  |
|                     | ROCHESTER       | 77              | 56           | 83          | 50      | 67                    | -4                | 0.38                  | -0.28                    | 0.28                 | 13.20                   | 226                  | 29.11                   | 165             | 96                         | 45           | 0              | 0                | 4               | 0       |  |
|                     | SYRACUSE        | 79              | 58           | 85          | 51      | 69                    | -2                | 0.32                  | -0.51                    | 0.31                 | 8.25                    | 107                  | 23.67                   | 110             | 91                         | 43           | 0              | 0                | 2               | 0       |  |
|                     | ASHEVILLE       | 83              | 64           | 89          | 63      | 74                    | 1                 | 0.04                  | -1.01                    | 0.02                 | 5.61                    | 63                   | 36.58                   | 128             | 99                         | 56           | 0              | 0                | 2               | 0       |  |
|                     | CHARLOTTE       | 87              | 69           | 92          | 68      | 78                    | -2                | 2.08                  | 1.18                     | 2.06                 | 7.21                    | 97                   | 27.50                   | 106             | 98                         | 56           | 2              | 0                | 2               | 0       |  |
|                     | GREENSBORO      | 85              | 68           | 92          | 65      | 77                    | -1                | 0.99                  | -0.01                    | 0.55                 | 7.39                    | 87                   | 32.84                   | 129             | 97                         | 55           | 2              | 0                | 2               | 1       |  |
|                     | HATTERAS        | 84              | 75           | 88          | 70      | 80                    | 1                 | 1.77                  | 0.53                     | 1.77                 | 14.62                   | 158                  | 44.56                   | 146             | 91                         | 69           | 0              | 0                | 1               | 1       |  |
| NC                  | RALEIGH         | 86              | 70           | 93          | 66      | 78                    | 0                 | 1.39                  | 0.46                     | 0.83                 | 8.29                    | 106                  | 35.90                   | 141             | 98                         | 59           | 1              | 0                | 4               | 1       |  |
|                     | WILMINGTON      | 90              | 73           | 96          | 69      | 81                    | 1                 | 0.57                  | -1.27                    | 0.31                 | 7.64                    | 53                   | 38.54                   | 116             | 98                         | 58           | 4              | 0                | 3               | 0       |  |
|                     | BISMARCK        | 87              | 57           | 95          | 48      | 72                    | 1                 | 0.00                  | -0.43                    | 0.00                 | 4.79                    | 98                   | 8.70                    | 83              | 81                         | 33           | 3              | 0                | 0               | 0       |  |
|                     | DICKINSON       | 86              | 57           | 99          | 48      | 72                    | 1                 | 0.00                  | -0.37                    | 0.00                 | 7.49                    | 140                  | 13.11                   | 117             | 82                         | 27           | 2              | 0                | 0               | 0       |  |
|                     | FARGO           |                 |              |             |         |                       |                   |                       |                          |                      |                         |                      |                         |                 |                            |              |                |                  |                 |         |  |

Weather Data for the Week Ending August 1, 1998

| STATES AND STATIONS | TEMPERATURE °F  |                 |              |             |         |                       | PRECIPITATION     |                       |                          |                        |                         |                        | RELATIVE HUMIDITY, PERCENT |                 | NUMBER OF DAYS  |              |              |                  |                  |
|---------------------|-----------------|-----------------|--------------|-------------|---------|-----------------------|-------------------|-----------------------|--------------------------|------------------------|-------------------------|------------------------|----------------------------|-----------------|-----------------|--------------|--------------|------------------|------------------|
|                     | AVERAGE MAXIMUM | AVERAGE MINIMUM | EXTREME HIGH | EXTREME LOW | AVERAGE | DEPARTURE FROM NORMAL | WEEKLY TOTAL, IN. | DEPARTURE FROM NORMAL | GREATEST IN 24-HOUR, IN. | TOTAL IN., SINCE JAN 1 | PCT. NORMAL SINCE JAN 1 | TOTAL IN., SINCE JAN 1 | PCT. NORMAL SINCE JAN 1    | AVERAGE MAXIMUM | AVERAGE MINIMUM | TEMP., °F    |              | PRECIP.          |                  |
|                     |                 |                 |              |             |         |                       |                   |                       |                          |                        |                         |                        |                            |                 |                 | 90 AND ABOVE | 32 AND BELOW | .01 INCH OR MORE | .50 INCH OR MORE |
| OK TOLEDO           | 82              | 60              | 87           | 55          | 71      | -1                    | 0.00              | -0.72                 | 0.00                     | 5.18                   | 73                      | 21.85                  | 114                        | 96              | 44              | 0            | 0            | 0                | 0                |
| OK YOUNGSTOWN       | 81              | 55              | 84           | 46          | 68      | -3                    | 0.00              | -0.86                 | 0.00                     | 5.28                   | 65                      | 24.08                  | 109                        | 92              | 38              | 0            | 0            | 0                | 0                |
| OK OKLAHOMA CITY    | 104             | 77              | 107          | 73          | 91      | 8                     | 0.00              | -0.62                 | 0.00                     | 2.89                   | 38                      | 19.00                  | 93                         | 73              | 25              | 7            | 0            | 0                | 0                |
| OK TULSA            | 100             | 76              | 108          | 71          | 88      | 4                     | 0.00              | -0.63                 | 0.00                     | 7.88                   | 101                     | 25.80                  | 108                        | 84              | 33              | 7            | 0            | 0                | 0                |
| OR ASTORIA          | 68              | 57              | 77           | 55          | 63      | 2                     | 0.07              | -0.15                 | 0.06                     | 2.03                   | 57                      | 45.23                  | 128                        | 98              | 74              | 0            | 0            | 2                | 0                |
| OR BURNS            | 88              | 53              | 96           | 50          | 70      | 3                     | 0.26              | 0.16                  | 0.20                     | 1.37                   | 110                     | 11.82                  | 211                        | 86              | 32              | 4            | 0            | 4                | 0                |
| OR EUGENE           | 88              | 59              | 106          | 56          | 74      | 5                     | 0.00              | -0.12                 | 0.00                     | 0.79                   | 40                      | 27.82                  | 106                        | 87              | 37              | 3            | 0            | 0                | 0                |
| OR MEDFORD          | 98              | 63              | 107          | 55          | 81      | 7                     | 0.00              | -0.06                 | 0.00                     | 0.67                   | 80                      | 17.96                  | 190                        | 78              | 19              | 6            | 0            | 0                | 0                |
| OR PENDLETON        | 96              | 68              | 107          | 62          | 82      | 8                     | 0.63              | 0.54                  | 0.40                     | 1.52                   | 149                     | 9.12                   | 132                        | 63              | 25              | 5            | 0            | 3                | 0                |
| OR PORTLAND         | 86              | 65              | 101          | 61          | 75      | 6                     | 0.29              | 0.15                  | 0.16                     | 2.32                   | 108                     | 25.01                  | 129                        | 86              | 43              | 3            | 0            | 3                | 0                |
| OR SALEM            | 87              | 60              | 101          | 56          | 74      | 6                     | 0.08              | -0.03                 | 0.08                     | 1.08                   | 58                      | 28.48                  | 137                        | 88              | 38              | 3            | 0            | 1                | 0                |
| PA ALLENTOWN        | 85              | 59              | 90           | 52          | 72      | -2                    | 0.35              | -0.61                 | 0.28                     | 6.13                   | 76                      | 27.08                  | 108                        | 91              | 31              | 1            | 0            | 3                | 0                |
| PA ERIE             | 79              | 60              | 83           | 53          | 70      | -2                    | 0.00              | -0.79                 | 0.00                     | 4.97                   | 66                      | 22.13                  | 101                        | 80              | 45              | 0            | 0            | 0                | 0                |
| PA MIDDLETOWN       | 85              | 64              | 90           | 58          | 75      | -1                    | 1.31              | 0.53                  | 0.73                     | 10.88                  | 142                     | 36.11                  | 150                        | 91              | 42              | 1            | 0            | 2                | 2                |
| PA PHILADELPHIA     | 87              | 69              | 92           | 63          | 78      | 0                     | 0.59              | -0.37                 | 0.39                     | 6.71                   | 82                      | 24.70                  | 99                         | 86              | 43              | 2            | 0            | 2                | 0                |
| PA PITTSBURGH       | 81              | 60              | 84           | 58          | 71      | -2                    | 0.04              | -0.77                 | 0.03                     | 8.73                   | 116                     | 24.22                  | 107                        | 86              | 41              | 0            | 0            | 2                | 0                |
| PA WILKES-BARRE     | 81              | 58              | 83           | 49          | 69      | -3                    | 0.28              | -0.50                 | 0.28                     | 6.59                   | 84                      | 24.79                  | 116                        | 91              | 41              | 0            | 0            | 2                | 0                |
| PA WILLIAMSPORT     | 84              | 57              | 87           | 49          | 70      | -2                    | 0.04              | -0.79                 | 0.03                     | 6.55                   | 78                      | 32.01                  | 133                        | 96              | 38              | 0            | 0            | 2                | 0                |
| RI PROVIDENCE       | 82              | 64              | 88           | 59          | 73      | 0                     | 0.50              | -0.25                 | 0.41                     | 10.88                  | 165                     | 40.20                  | 154                        | 95              | 48              | 0            | 0            | 2                | 0                |
| SC BEAUFORT         | 92              | 75              | 96           | 73          | 83      | 2                     | 0.38              | -1.21                 | 0.22                     | 8.85                   | 69                      | 37.36                  | 122                        | 97              | 60              | 5            | 0            | 3                | 0                |
| SC CHARLESTON       | 92              | 75              | 96           | 72          | 83      | 1                     | 3.80              | 2.19                  | 1.97                     | 10.23                  | 78                      | 42.13                  | 135                        | 94              | 59              | 5            | 0            | 5                | 3                |
| SC COLUMBIA         | 92              | 74              | 98           | 73          | 83      | 2                     | 0.76              | -0.58                 | 0.68                     | 6.97                   | 68                      | 32.72                  | 106                        | 92              | 48              | 5            | 0            | 2                | 1                |
| SC GREENVILLE       | 87              | 71              | 91           | 68          | 79      | 1                     | 0.83              | -0.16                 | 0.78                     | 7.07                   | 74                      | 36.00                  | 113                        | 95              | 57              | 2            | 0            | 3                | 1                |
| SD ABERDEEN         | 81              | 57              | 89           | 48          | 69      | -4                    | 0.08              | -0.48                 | 0.05                     | 7.59                   | 127                     | 16.61                  | 133                        | 92              | 42              | 0            | 0            | 2                | 0                |
| SD HURON            | 82              | 59              | 88           | 55          | 70      | -4                    | 0.09              | -0.43                 | 0.09                     | 4.84                   | 79                      | 14.22                  | 103                        | 90              | 44              | 0            | 0            | 1                | 0                |
| SD RAPID CITY       | 81              | 61              | 91           | 59          | 71      | -2                    | 0.51              | 0.12                  | 0.40                     | 6.94                   | 134                     | 11.54                  | 99                         | 90              | 46              | 2            | 0            | 4                | 0                |
| SD SIOUX FALLS      | 79              | 57              | 87           | 50          | 68      | -7                    | 0.56              | -0.02                 | 0.55                     | 7.18                   | 117                     | 17.94                  | 124                        | 95              | 46              | 0            | 0            | 2                | 1                |
| TN BRISTOL          | 82              | 64              | 87           | 60          | 73      | -1                    | 0.06              | -0.86                 | 0.06                     | 9.36                   | 118                     | 32.44                  | 127                        | 99              | 62              | 0            | 0            | 1                | 0                |
| TN CHATTANOOGA      | 87              | 72              | 91           | 70          | 79      | 0                     | 2.98              | 1.84                  | 1.34                     | 10.81                  | 127                     | 39.65                  | 121                        | 93              | 59              | 1            | 0            | 6                | 2                |
| TN KNOXVILLE        | 85              | 70              | 87           | 65          | 77      | 0                     | 2.86              | 1.70                  | 1.47                     | 13.68                  | 158                     | 40.65                  | 138                        | 95              | 61              | 0            | 0            | 4                | 2                |
| TN MEMPHIS          | 90              | 74              | 95           | 72          | 82      | -1                    | 4.22              | 3.39                  | 2.32                     | 11.05                  | 148                     | 39.41                  | 125                        | 96              | 63              | 2            | 0            | 4                | 2                |
| TN NASHVILLE        | 84              | 71              | 87           | 68          | 78      | -2                    | 1.47              | 0.59                  | 0.77                     | 15.57                  | 203                     | 36.97                  | 127                        | 93              | 64              | 0            | 0            | 3                | 1                |
| TX ABILENE          | 101             | 78              | 103          | 77          | 90      | 6                     | 0.00              | -0.49                 | 0.00                     | 3.28                   | 65                      | 9.39                   | 70                         | 63              | 21              | 7            | 0            | 0                | 0                |
| TX AMARILLO         | 94              | 67              | 99           | 64          | 81      | 2                     | 0.38              | -0.23                 | 0.17                     | 1.21                   | 19                      | 7.93                   | 66                         | 77              | 29              | 5            | 0            | 3                | 0                |
| TX AUSTIN           | 101             | 76              | 104          | 75          | 89      | 4                     | 0.00              | -0.39                 | 0.00                     | 2.46                   | 42                      | 12.97                  | 69                         | 90              | 29              | 7            | 0            | 0                | 0                |
| TX BEAUMONT         | 95              | 75              | 98           | 71          | 85      | 1                     | 0.01              | -1.17                 | 0.01                     | 5.62                   | 50                      | 26.70                  | 84                         | 98              | 52              | 7            | 0            | 1                | 0                |
| TX BROWNSVILLE      | 96              | 77              | 97           | 75          | 86      | 2                     | 0.00              | -0.42                 | 0.00                     | 0.30                   | 6                       | 3.06                   | 25                         | 93              | 46              | 7            | 0            | 0                | 0                |
| TX CORPUS CHRISTI   | 97              | 76              | 98           | 74          | 87      | 2                     | 0.00              | -0.54                 | 0.00                     | 0.59                   | 10                      | 6.83                   | 44                         | 92              | 43              | 7            | 0            | 0                | 0                |
| TX DEL RIO          | 102             | 79              | 103          | 78          | 91      | 5                     | 0.00              | -0.36                 | 0.00                     | 1.35                   | 34                      | 2.89                   | 28                         | 71              | 23              | 7            | 0            | 0                | 0                |
| TX EL PASO          | 94              | 72              | 99           | 67          | 83      | 1                     | 0.24              | -0.14                 | 0.09                     | 2.43                   | 107                     | 2.85                   | 74                         | 74              | 31              | 6            | 0            | 4                | 0                |
| TX FORT WORTH       | 104             | 82              | 106          | 80          | 93      | 7                     | 0.00              | -0.49                 | 0.00                     | 1.86                   | 36                      | 18.24                  | 89                         | 80              | 21              | 7            | 0            | 0                | 0                |
| TX GALVESTON        | 91              | 82              | 92           | 79          | 86      | 2                     | 0.00              | -0.84                 | 0.00                     | 9.84                   | 113                     | 22.68                  | 102                        | 88              | 65              | 7            | 0            | 0                | 0                |
| TX HOUSTON          | 101             | 74              | 103          | 70          | 87      | 5                     | 0.00              | -0.74                 | 0.00                     | 4.38                   | 51                      | 18.24                  | 69                         | 97              | 33              | 7            | 0            | 0                | 0                |
| TX LUBBOCK          | 97              | 71              | 99           | 68          | 84      | 4                     | 0.00              | -0.53                 | 0.00                     | 1.54                   | 30                      | 5.17                   | 50                         | 66              | 22              | 7            | 0            | 0                | 0                |
| TX MIDLAND          | 100             | 74              | 102          | 73          | 87      | 5                     | 0.00              | -0.38                 | 0.00                     | 0.95                   | 29                      | 2.13                   | 28                         | 57              | 21              | 7            | 0            | 0                | 0                |
| TX SAN ANGELO       | 99              | 78              | 101          | 74          | 88      | 5                     | 0.00              | -0.24                 | 0.00                     | 1.34                   | 39                      | 6.18                   | 57                         | 67              | 20              | 7            | 0            | 0                | 0                |
| TX SAN ANTONIO      | 100             | 78              | 101          | 74          | 88      | 2                     | 0.00              | -0.45                 | 0.00                     | 1.02                   | 17                      | 10.86                  | 61                         | 89              | 29              | 7            | 0            | 0                | 0                |
| TX VICTORIA         | 100             | 75              | 103          | 72          | 88      | 3                     | 0.00              | -0.63                 | 0.00                     | 1.11                   | 13                      | 8.95                   | 43                         | 94              | 32              | 7            | 0            | 0                | 0                |
| TX WACO             | 104             | 78              | 106          | 73          | 91      | 5                     | 0.00              | -0.36                 | 0.00                     | 1.34                   | 25                      | 15.34                  | 80                         | 77              | 24              | 7            | 0            | 0                | 0                |
| UT WICHITA FALLS    | 105             | 80              | 105          | 78          | 92      | 7                     | 0.00              | -0.37                 | 0.00                     | 4.20                   | 79                      | 14.82                  | 86                         | 52              | 20              | 7            | 0            | 0                | 0                |
| UT SALT LAKE CITY   | 89              | 66              | 93           | 60          | 77      | -2                    | 0.42              | 0.23                  | 0.41                     | 5.41                   | 301                     | 18.01                  | 180                        | 68              | 20              | 3            | 0            | 2                | 0                |
| VT BURLINGTON       | 78              | 57              | 83           | 49          | 67      | -3                    | 1.35              | 0.48                  | 1.01                     | 17.97                  | 248                     | 34.17                  | 182                        | 97              | 42              | 0            | 0            | 3                | 1                |
| VA LYNCHBURG        | 83              | 62              | 93           | 57          | 73      | -3                    | 0.58              | -0.35                 | 0.58                     | 4.64                   | 60                      | 33.89                  | 140                        | 99              | 52              | 1            | 0            | 3                | 1                |
| VA NORFOLK          | 85              | 72              | 93           | 69          | 78      | 0                     | 0.07              | -1.11                 | 0.03                     | 8.47                   | 94                      | 35.14                  | 131                        | 91              | 59              | 2            | 0            | 3                | 0                |
| VA RICHMOND         | 87              | 67              | 97           | 64          | 77      | -2                    | 0.52              | -0.63                 | 0.40                     | 6.78                   | 77                      | 34.17                  | 133                        | 95              | 49              | 2            | 0            | 3                | 0                |
| VA ROANOKE          | 87              | 66              | 95           | 62          | 76      | 0                     | 0.04              | -0.90                 | 0.03                     | 2.89                   | 40                      | 33.10                  | 140                        | 92              | 43              | 3            | 0            | 2                | 0                |
| VA WASH/DULLES      | 88              | 63              | 93           | 58          | 75      | -1                    | 0.63              | -0.18                 | 0.39                     | 7.20                   | 96                      | 31.48                  | 135                        | 96              | 44              | 3            | 0            | 3                | 0                |
| WA HANFORD          | 99              | 75              | 112          | 67          | 87      | -                     | 0.20              | -                     | 0.16                     | 0.82                   | -                       | 4.30                   | -                          | 55              | 20              | 5            | 0            | 3                | 0                |
| WA OLYMPIA          | 86              | 58              | 100          | 55          | 72      | 8                     | 0.05              | -0.13                 | 0.05                     | 1.78                   | 72                      | 26.53                  | 100                        | 95              | 39              | 3            | 0            | 1                | 0                |
| WA QUILLAYUTE       | 76              | 54              | 86           | 48          | 65      | 5                     | 0.08              | -0.47                 | 0.04                     | 3.09                   | 54                      | 47.70                  | 84                         | 98              | 62              | 0            | 0            | 3                | 0                |
| WA SEATTLE-TACOMA   | 84              | 61              | 97           | 58          | 73      | 6                     | 0.01              | -0.16                 | 0.01                     | 1.52                   | 66                      | 18.92                  | 96                         | 91              | 41              | 3            | 0            | 1                | 0                |
| WA SPOKANE          | 91              | 65              | 103          | 59          | 78      | 8                     | 0.01              | -0.13                 | 0.01                     | 1.11                   | 57                      | 9.95                   | 104                        | 70              | 28              | 4            | 0            | 1                | 0                |
| WA YAKIMA           | 96              | 65              | 106          | 58          | 80      | 10                    | 0.20              | 0.17                  | 0.12                     | 0.74                   | 107                     | 6.90                   | 160                        | 78              | 24              | 5            | 0            | 4                | 0                |
| WV BECKLEY          | 78              | 57              | 82           | 54          | 68      | -2                    | 1.04              | 0.04                  | 1.02                     | 11.01                  | 127                     | 36.69                  | 145                        | 100             | 59              | 0            | 0            | 2                | 1                |
| WV CHARLESTON       | 82              | 62              | 86           | 57          | 72      | -3                    | 0.51              | -0.61                 | 0.50                     | 14.32                  | 164                     | 35.43                  | 139                        | 100             | 62              | 0            | 0            | 2                | 1                |
| WV ELKINS           | 80              | 56              | 86           | 50          | 68      | -2                    | 0.49              | -0.53                 | 0.34                     | 13.88                  | 152                     | 33.09                  | 123                        | 100             | 51              | 0            | 0            | 5                | 0                |
| WV HUNTINGTON       | 83              | 63              | 87           | 58          | 73      | -2                    | 2.05              | 1.00                  | 2.05                     | 10.67                  | 128                     | 32.30                  | 127                        | 96              | 61              | 0            | 0            | 1                | 1                |
| WI EAU CLAIRE       | 84              | 58              | 87           | 53          | 71      | -1                    | 0.03              | -0.87                 | 0.01                     | 5.29                   | 64                      | 20.44                  | 111                        | 89              | 33              | 0            | 0            | 2                | 0                |
| WI GREEN BAY        | 81              | 54              | 87           | 49          | 67      | -3                    | 0.03              | -0.69                 | 0.02                     | 8.03                   | 122                     | 18.76                  | 117                        | 94              | 42              | 0            | 0            | 2                | 0                |
| WI MADISON          | 81              | 56              | 85           | 49          | 69      | -2                    | 0.03              | -0.78                 | 0.02                     | 9.96                   | 139                     | 27.78                  | 159                        | 97              | 44              | 0            | 0            | 2                | 0                |
| WI MILWAUKEE        | 80              | 62              | 87           | 57          | 71      | 0                     | 0.00              | -0.80                 | 0.00                     | 4.60                   | 67                      | 20.23                  | 107                        | 80              | 40              | 0            | 0            | 0                | 0                |
| WY CASPER           | 84              | 58              | 89           | 53          | 71      | -1                    | 1.38              | 1.13                  | 1.11                     | 4.67                   | 170                     | 7.96                   | 93                         | 89              | 31              | 0            | 0            | 6                | 1                |
| WY CHEYENNE         | 78              | 56              | 85           | 54          | 67      | -2                    | 0.86              | 0.41                  | 0.25                     | 3.09                   | 73                      | 7.58                   | 78                         | 95              | 41              | 0            | 0            | 4                | 0                |
| WY LANDER           | 81              | 57              | 89           | 53          | 69      | -3                    | 0.72              | 0.59                  | 0.35                     | 4.59                   | 200                     | 10.59                  | 119                        | 87              | 33              | 0            | 0            | 4                | 0                |
| WY SHERIDAN         | 84              | 57              | 97           | 52          | 71      | 0                     | 0.00              | -0.14                 | 0.00                     | 4.61                   | 146                     | 8.57                   | 89                         | 94              | 43              | 3            | 0            | 0                | 0                |

NOTE: These data are preliminary and subject to change. In the past, precipitation totals from a number of stations have been incomplete.

## National Agricultural Summary

July 27 - August 2, 1998

### HIGHLIGHTS

**Crops continued to suffer from extreme heat and dry weather in the southern Plains. Cool weather slowed crop development slightly across most of the Corn Belt, but also alleviated crop moisture requirements. Rain aided crop development in the central Great Plains, but heavy downpours caused flooding and standing water that drowned crops in the Missouri**

**Bootheel and adjoining areas of the Tennessee and Ohio Valleys. Crops responded well to widespread rains that further reduced drought conditions in the Southeast. Hot weather sped small grain ripening in the Pacific Northwest. Seasonable temperatures aided crop conditions in the Southwest, but development remained well behind normal.**

**Corn:** Development in the Corn Belt and Great Plains slowed slightly due to below-normal temperatures, but remained well ahead of normal. Corn in the silking stage or beyond advanced to 91 percent, 11 percentage points above the previous week and more than 1 week ahead of the 5-year average. Corn in the dough stage or beyond progressed to 23 percent, up from 12 percent and less than 1 week ahead of the normal pace of 15 percent. Conditions were mostly unchanged due to seasonable weather in the Corn Belt. Rain aided conditions in the central Great Plains, while dryness hampered fields in the upper Mississippi Valley. Heat sped maturation in the southern Plains and lower Mississippi Valley.

**Soybeans:** Cool weather slightly slowed blooming progress in the Corn Belt and Great Plains, but aided rapid pod setting. Soybeans blooming advanced to 84 percent, compared with 75 percent the previous week and 72 percent normally blooming by this date. Forty-eight percent of the crop was setting pods, 18 percentage points above the previous week and 1 week ahead of the 5-year average. Rains significantly boosted conditions in parts of the Southeast. Conditions were mostly unchanged in the Corn Belt and Great Plains, as cool temperatures helped offset excessive dryness. Some low-lying fields were drowned by heavy rainfall in the Missouri Bootheel and parts of the adjoining Ohio Valley.

**All Wheat:** Winter wheat harvest progress reached 91 percent, 1 week ahead of the 86 percent normally harvested by this date. The harvest was virtually complete in the eastern Corn Belt and nearly complete in the central Great Plains. Most of the harvest activity was in the northern Great Plains and Pacific Northwest, where hot, dry weather permitted rapid progress. The hot, dry weather quickly ripened spring wheat fields and allowed harvest to advance to 14 percent, 1 week ahead of the normal progress of 3 percent. Nearly all spring wheat has begun to

turn color except in Idaho, where development continued to lag behind normal. Extreme heat stressed spring wheat fields in some areas, but conditions improved from earlier drought-stressed levels in Montana.

**Cotton:** Ninety-seven percent of the Nation's cotton crop has progressed to the squaring stage or beyond and 83 percent was setting bolls. Hot, dry weather kept progress well ahead of normal in the southern Great Plains, but also caused squares and bolls to drop. Development remained well behind normal in California, although warm, sunny weather promoted rapid growth.

**Rice:** Above-normal temperatures accelerated development, with 56 percent of the crop headed compared with 43 percent the previous week and 47 percent normally headed by this date. Warm weather aided crop development in California, but progress lagged well behind the 5-year average.

**Other small grains:** Oat harvest continued at a rapid pace in the Corn Belt and accelerated in the northern Great Plains. Warm weather quickly ripened the crop, but also caused conditions to slightly deteriorate in the northern Great Plains. The barley harvest quickened, with 18 percent of the crop combined compared with 4 percent a week ago and the normal pace of 5 percent. Improved moisture levels aided conditions in Montana.

**Other crops:** Peanuts pegging progressed to 90 percent, 5 percentage points ahead of the previous week and 4 percentage points ahead of the 5-year average. Wide-spread rains continued to alleviate drought conditions in the eastern Gulf Coast peanut-producing areas, especially in Georgia, which missed showers the previous week. Sorghum headed progressed to 53 percent, sorghum turning color was 24 percent.

# Crop Progress and Condition

## Week Ending August 2, 1998

| Soybeans Percent Blooming |               |              |              |             |
|---------------------------|---------------|--------------|--------------|-------------|
|                           | Aug 2<br>1998 | Prev<br>Week | Prev<br>Year | 5-Yr<br>Avg |
| AL                        | 67            | 40           | 49           | 55          |
| AR                        | 70            | 56           | 49           | 52          |
| GA                        | 65            | 60           | 68           | 63          |
| IL                        | 83            | 72           | 89           | 75          |
| IN                        | 77            | 68           | 77           | 75          |
| IA                        | 95            | 90           | 94           | 83          |
| KS                        | 88            | 80           | 84           | 67          |
| KY                        | 46            | 40           | 30           | 50          |
| LA                        | 95            | 93           | 90           | 82          |
| MI                        | 89            | 69           | 66           | 63          |
| MN                        | 99            | 93           | 91           | 82          |
| MS                        | 98            | 92           | 73           | 74          |
| MO                        | 73            | 62           | 71           | 58          |
| NE                        | 90            | 80           | 90           | 77          |
| NC                        | 45            | 40           | 31           | 38          |
| OH                        | 90            | 78           | 87           | 80          |
| SC                        | 47            | 31           | 44           | 44          |
| SD                        | 86            | 72           | 77           | 64          |
| TN                        | 53            | 40           | 39           | 50          |
| ALL                       | 84            | 75           | 79           | 72          |

These 19 States planted 93% of last year's soybean acreage.

| Winter Wheat Percent Harvested |               |              |              |             |
|--------------------------------|---------------|--------------|--------------|-------------|
|                                | Aug 2<br>1998 | Prev<br>Week | Prev<br>Year | 5-Yr<br>Avg |
| AR                             | 100           | 100          | 100          | 100         |
| CA                             | 99            | 92           | 99           | 99          |
| CO                             | 96            | 95           | 97           | 93          |
| GA                             | 100           | 100          | 100          | 100         |
| ID                             | 14            | 5            | 9            | 14          |
| IL                             | 99            | 99           | 100          | 98          |
| IN                             | 100           | 100          | 98           | 98          |
| KS                             | 100           | 100          | 100          | 98          |
| MI                             | 100           | 97           | 88           | 83          |
| MO                             | 100           | 100          | 100          | 98          |
| MT                             | 61            | 14           | 35           | 14          |
| NE                             | 96            | 92           | 96           | 88          |
| NC                             | 100           | 100          | 100          | 99          |
| OH                             | 100           | 100          | 95           | 98          |
| OK                             | 100           | 100          | 100          | 100         |
| OR                             | 33            | 9            | 42           | 40          |
| SD                             | 93            | 79           | 43           | 56          |
| TX                             | 100           | 100          | 100          | 100         |
| WA                             | 31            | 22           | 24           | 32          |
| ALL                            | 91            | 67           | 68           | 66          |

These 19 States planted 91% of last year's winter wheat acreage.

| Corn Percent Silking |               |              |              |             |
|----------------------|---------------|--------------|--------------|-------------|
|                      | Aug 2<br>1998 | Prev<br>Week | Prev<br>Year | 5-Yr<br>Avg |
| CO                   | 80            | 60           | 61           | 54          |
| GA                   | 100           | 99           | 100          | 100         |
| IL                   | 92            | 81           | 91           | 85          |
| IN                   | 84            | 71           | 72           | 75          |
| IA                   | 94            | 84           | 89           | 71          |
| KS                   | 99            | 99           | 97           | 88          |
| KY                   | 92            | 83           | 71           | 83          |
| MI                   | 82            | 67           | 42           | 54          |
| MN                   | 99            | 95           | 91           | 76          |
| MO                   | 94            | 88           | 93           | 77          |
| NE                   | 94            | 87           | 88           | 76          |
| NC                   | 87            | 85           | 94           | 97          |
| OH                   | 84            | 57           | 55           | 65          |
| PA                   | 75            | 52           | 57           | 60          |
| SD                   | 78            | 54           | 64           | 46          |
| TX                   | 96            | 94           | 96           | 94          |
| WI                   | 90            | 76           | 68           | 52          |
| ALL                  | 91            | 80           | 82           | 73          |

These 17 States planted 90% of last year's corn acreage.

| Soybeans Percent Setting Pods |               |              |              |             |
|-------------------------------|---------------|--------------|--------------|-------------|
|                               | Aug 2<br>1998 | Prev<br>Week | Prev<br>Year | 5-Yr<br>Avg |
| AL                            | 47            | 25           | 21           | 28          |
| AR                            | 29            | 18           | 11           | 21          |
| GA                            | 36            | 26           | 39           | 35          |
| IL                            | 40            | 20           | 37           | 30          |
| IN                            | 36            | 22           | 30           | 25          |
| IA                            | 70            | 50           | 54           | 44          |
| KS                            | 42            | 32           | 37           | 26          |
| KY                            | 27            | 17           | 11           | 20          |
| LA                            | 77            | 63           | 65           | 52          |
| MI                            | 64            | 27           | 19           | 19          |
| MN                            | 66            | 38           | 33           | 34          |
| MS                            | 77            | 67           | 42           | 42          |
| MO                            | 34            | 20           | 27           | 22          |
| NE                            | 42            | 20           | 36           | 31          |
| NC                            | 25            | 10           | 14           | 17          |
| OH                            | 43            | 25           | 35           | 32          |
| SC                            | 15            | 14           | 20           | 18          |
| SD                            | 45            | 31           | 46           | 31          |
| TN                            | 28            | 17           | 15           | 19          |
| ALL                           | 48            | 30           | 35           | 31          |

These 19 States planted 93% of last year's soybean acreage.

| Oats Percent Harvested |               |              |              |             |
|------------------------|---------------|--------------|--------------|-------------|
|                        | Aug 2<br>1998 | Prev<br>Week | Prev<br>Year | 5-Yr<br>Avg |
| IA                     | 94            | 66           | 71           | 66          |
| MI                     | 52            | 41           | 21           | 18          |
| MN                     | 58            | 26           | 8            | 16          |
| NE                     | 89            | 70           | 92           | 76          |
| ND                     | 15            | 4            | 0            | 2           |
| OH                     | 60            | 33           | 46           | 50          |
| PA                     | 49            | 21           | 43           | 36          |
| SD                     | 61            | 29           | 19           | 27          |
| WI                     | 63            | 32           | 17           | 17          |
| ALL                    | 55            | 30           | 25           | 27          |

These 9 States planted 57% of last year's oat acreage.

| Corn Percent Dough |               |              |              |             |
|--------------------|---------------|--------------|--------------|-------------|
|                    | Aug 2<br>1998 | Prev<br>Week | Prev<br>Year | 5-Yr<br>Avg |
| CO                 | 10            | 1            | 10           | 7           |
| GA                 | 95            | 91           | 96           | 98          |
| IL                 | 34            | 17           | 14           | 19          |
| IN                 | 23            | 15           | 10           | 12          |
| IA                 | 10            | 0            | 5            | 5           |
| KS                 | 44            | 32           | 41           | 36          |
| KY                 | 30            | 24           | 13           | 31          |
| MI                 | 0             | 0            | 0            | 0           |
| MN                 | 6             | 0            | 1            | 1           |
| MO                 | 57            | 37           | 43           | 37          |
| NE                 | 14            | 4            | 11           | 13          |
| NC                 | 66            | 61           | 69           | 78          |
| OH                 | 15            | 8            | 3            | 9           |
| PA                 | 25            | 2            | 3            | 5           |
| SD                 | 19            | 8            | 5            | 5           |
| TX                 | 82            | 76           | 72           | 75          |
| WI                 | 28            | 0            | 3            | 5           |
| ALL                | 23            | 12           | 13           | 15          |

These 17 States planted 90% of last year's corn acreage.

# Crop Progress and Condition

Week Ending August 2, 1998

## Cotton Percent Squaring

|     | Aug 2<br>1998 | Prev<br>Week | Prev<br>Year | 5-Yr<br>Avg |
|-----|---------------|--------------|--------------|-------------|
| AL  | 98            | 97           | 91           | 98          |
| AZ  | 100           | 99           | 100          | 100         |
| AR  | 100           | 100          | 100          | 100         |
| CA  | 80            | 55           | 100          | 100         |
| GA  | 100           | 99           | 99           | 100         |
| LA  | 100           | 100          | 100          | 100         |
| MS  | 100           | 100          | 100          | 100         |
| MO  | 100           | 100          | 100          | 100         |
| NM  | 100           | 95           | 100          | 97          |
| NC  | 95            | 93           | 89           | 94          |
| OK  | 95            | 93           | 97           | 97          |
| SC  | 99            | 99           | 98           | 98          |
| TN  | 100           | 100          | 100          | 100         |
| TX  | 98            | 91           | 99           | 96          |
| ALL | 97            | 92           | 89           | 98          |

These 14 States planted 98% of last year's cotton acreage.

## Cotton Percent Setting Bolls

|     | Aug 2<br>1998 | Prev<br>Week | Prev<br>Year | 5-Yr<br>Avg |
|-----|---------------|--------------|--------------|-------------|
| AL  | 87            | 80           | 60           | 78          |
| AZ  | 98            | 96           | 98           | 95          |
| AR  | 97            | 96           | 95           | 93          |
| CA  | 20            | 9            | 87           | 88          |
| GA  | 94            | 90           | 89           | 93          |
| LA  | 100           | 97           | 96           | 97          |
| MS  | 100           | 100          | 93           | 93          |
| MO  | 100           | 96           | 83           | 91          |
| NM  | 79            | 70           | 89           | 81          |
| NC  | 67            | 61           | 69           | 80          |
| OK  | 81            | 65           | 24           | 59          |
| SC  | 82            | 70           | 62           | 77          |
| TN  | 95            | 84           | 82           | 93          |
| TX  | 83            | 66           | 68           | 64          |
| ALL | 83            | 73           | 77           | 79          |

These 14 States planted 98% of last year's cotton acreage.

## Rice Percent Headed

|     | Aug 2<br>1998 | Prev<br>Week | Prev<br>Year | 5-Yr<br>Avg |
|-----|---------------|--------------|--------------|-------------|
| AR  | 52            | 33           | 25           | 41          |
| CA  | 0             | 0            | 38           | 13          |
| LA  | 92            | 82           | 75           | 75          |
| MS  | 76            | 50           | 59           | 60          |
| TX  | 92            | 90           | 64           | 79          |
| ALL | 56            | 43           | 42           | 47          |

These 5 States planted 96% of last year's rice acreage.

## Sorghum Percent Headed

|     | Aug 2<br>1998 | Prev<br>Week | Prev<br>Year | 5-Yr<br>Avg |
|-----|---------------|--------------|--------------|-------------|
| AR  | 86            | 83           | 68           | 76          |
| CO  | 13            | 4            | 17           | 19          |
| IL  | 25            | 9            | 42           | 29          |
| KS  | 44            | 32           | 43           | 32          |
| LA  | 97            | 82           | 85           | 90          |
| MS  | 99            | 94           | 96           | 89          |
| MO  | 72            | 59           | 58           | 48          |
| NE  | 46            | 16           | 33           | 27          |
| NM  | 2             | 1            | 9            | 13          |
| OK  | 18            | 16           | 18           | 36          |
| SD  | 30            | 15           | 36           | 22          |
| TX  | 75            | 71           | 75           | 79          |
| ALL | 53            | 43           | 52           | 49          |

These 12 States planted 99% of last year's sorghum acreage.

## Sorghum Percent Coloring

|     | Aug 2<br>1998 | Prev<br>Week | Prev<br>Year | 5-Yr<br>Avg |
|-----|---------------|--------------|--------------|-------------|
| AR  | 25            | 17           | 10           | 25          |
| CO  | 0             | 0            | 0            | 0           |
| IL  | 1             | 0            | 4            | 3           |
| KS  | 6             | 2            | 3            | 2           |
| LA  | 55            | 28           | 30           | 40          |
| MS  | 60            | 33           | 53           | 44          |
| MO  | 7             | 4            | 4            | 5           |
| NE  | 0             | 0            | 0            | 0           |
| NM  | 0             | 0            | 0            | 0           |
| OK  | 7             | 4            | 5            | 9           |
| SD  | 4             | 0            | 5            | 2           |
| TX  | 60            | 55           | 53           | 62          |
| ALL | 24            | 20           | 20           | 23          |

These 12 States planted 99% of last year's sorghum acreage.

## Peanuts Percent Pegging

|     | Aug 2<br>1998 | Prev<br>Week | Prev<br>Year | 5-Yr<br>Avg |
|-----|---------------|--------------|--------------|-------------|
| AL  | 91            | 85           | 84           | 85          |
| FL  | 84            | 80           | 99           | NA          |
| GA  | 98            | 95           | 97           | 98          |
| NC  | 85            | 80           | 84           | 57          |
| OK  | 96            | 91           | 95           | 89          |
| SC  | 74            | 70           | 67           | 42          |
| TX  | 78            | 70           | 77           | 80          |
| VA  | 97            | 95           | 95           | NA          |
| ALL | 90            | 85           | 89           | 86          |

These 8 States planted 99% of last year's peanut acreage.

## Barley Percent Harvested

|     | Aug 2<br>1998 | Prev<br>Week | Prev<br>Year | 5-Yr<br>Avg |
|-----|---------------|--------------|--------------|-------------|
| ID  | 5             | 3            | 4            | 6           |
| MN  | 27            | 4            | 2            | 6           |
| MT  | 7             | 1            | 1            | 2           |
| ND  | 25            | 4            | 1            | 2           |
| SD  | 44            | 17           | 5            | 16          |
| WA  | 17            | 12           | 5            | 20          |
| ALL | 18            | 4            | 2            | 5           |

These 6 States planted 83% of last year's barley acreage.

## Spring Wheat Percent Harvested

|     | Aug 2<br>1998 | Prev<br>Week | Prev<br>Year | 5-Yr<br>Avg |
|-----|---------------|--------------|--------------|-------------|
| ID  | 3             | 0            | 2            | 3           |
| MN  | 17            | 3            | 2            | 6           |
| MT  | 5             | 1            | 1            | 1           |
| ND  | 12            | 1            | 0            | 1           |
| SD  | 36            | 14           | 4            | 11          |
| ALL | 14            | 3            | 1            | 3           |

These 5 States planted 96% of last year's spring wheat acreage.

## Soybeans Crop Condition by Percent

|         | VP | P  | F  | G  | EX |
|---------|----|----|----|----|----|
| AL      | 4  | 7  | 42 | 34 | 13 |
| AR      | 11 | 24 | 37 | 24 | 4  |
| GA      | 25 | 30 | 28 | 16 | 1  |
| IL      | 4  | 8  | 26 | 45 | 17 |
| IN      | 3  | 7  | 24 | 49 | 17 |
| IA      | 2  | 6  | 21 | 48 | 23 |
| KS      | 0  | 2  | 17 | 61 | 20 |
| KY      | 0  | 4  | 31 | 45 | 20 |
| LA      | 12 | 24 | 41 | 21 | 2  |
| MI      | 6  | 13 | 38 | 33 | 10 |
| MN      | 2  | 3  | 19 | 56 | 20 |
| MS      | 2  | 9  | 26 | 54 | 9  |
| MO      | 4  | 12 | 29 | 46 | 9  |
| NE      | 0  | 3  | 16 | 63 | 18 |
| NC      | 4  | 11 | 36 | 46 | 3  |
| OH      | 1  | 5  | 23 | 53 | 18 |
| SC      | 12 | 33 | 35 | 20 | 0  |
| SD      | 0  | 2  | 11 | 55 | 32 |
| TN      | 1  | 5  | 21 | 56 | 17 |
| ALL     | 3  | 8  | 24 | 48 | 17 |
| Prev Wk | 3  | 8  | 25 | 48 | 16 |
| Prev Yr | 2  | 8  | 30 | 49 | 11 |

# Crop Progress and Condition

## Week Ending August 2, 1998

| Corn Crop Condition by Percent |    |    |    |    |    |
|--------------------------------|----|----|----|----|----|
|                                | VP | P  | F  | G  | EX |
| CO                             | 1  | 3  | 19 | 50 | 27 |
| GA                             | 38 | 22 | 21 | 18 | 1  |
| IL                             | 3  | 8  | 27 | 48 | 14 |
| IN                             | 3  | 7  | 25 | 52 | 13 |
| IA                             | 3  | 6  | 23 | 46 | 22 |
| KS                             | 1  | 3  | 16 | 64 | 16 |
| KY                             | 1  | 3  | 24 | 50 | 22 |
| MI                             | 12 | 15 | 37 | 30 | 6  |
| MN                             | 1  | 3  | 18 | 53 | 25 |
| MO                             | 2  | 11 | 30 | 43 | 14 |
| NE                             | 1  | 3  | 15 | 59 | 22 |
| NC                             | 11 | 32 | 32 | 24 | 1  |
| OH                             | 1  | 5  | 22 | 51 | 21 |
| PA                             | 3  | 6  | 23 | 55 | 13 |
| SD                             | 0  | 2  | 10 | 55 | 33 |
| TX                             | 21 | 29 | 24 | 25 | 1  |
| WI                             | 2  | 8  | 21 | 44 | 25 |
| ALL                            | 3  | 7  | 22 | 49 | 19 |
| Prev Wk                        | 3  | 7  | 22 | 49 | 19 |
| Prev Yr                        | 2  | 7  | 25 | 50 | 16 |

| Cotton Crop Condition by Percent |    |    |    |    |    |
|----------------------------------|----|----|----|----|----|
|                                  | VP | P  | F  | G  | EX |
| AL                               | 10 | 20 | 26 | 43 | 1  |
| AZ                               | 5  | 12 | 38 | 31 | 14 |
| AR                               | 2  | 14 | 41 | 35 | 8  |
| CA                               | 0  | 0  | 75 | 25 | 0  |
| GA                               | 15 | 21 | 32 | 25 | 7  |
| LA                               | 6  | 13 | 41 | 34 | 6  |
| MS                               | 1  | 9  | 32 | 48 | 10 |
| MO                               | 4  | 15 | 31 | 35 | 15 |
| NM                               | 0  | 15 | 27 | 49 | 10 |
| NC                               | 2  | 7  | 26 | 62 | 3  |
| OK                               | 7  | 20 | 27 | 32 | 14 |
| SC                               | 9  | 31 | 37 | 23 | 0  |
| TN                               | 1  | 5  | 22 | 54 | 18 |
| TX                               | 28 | 26 | 27 | 18 | 1  |
| ALL                              | 15 | 18 | 33 | 29 | 5  |
| Prev Wk                          | 13 | 20 | 32 | 30 | 5  |
| Prev Yr                          | 2  | 9  | 30 | 48 | 11 |

| Sorghum Crop Condition by Percent |    |    |    |    |    |
|-----------------------------------|----|----|----|----|----|
|                                   | VP | P  | F  | G  | EX |
| AR                                | 4  | 20 | 40 | 35 | 1  |
| CO                                | 0  | 2  | 8  | 63 | 27 |
| IL                                | 7  | 4  | 25 | 59 | 5  |
| KS                                | 0  | 4  | 20 | 64 | 12 |
| LA                                | 2  | 21 | 47 | 29 | 1  |
| MS                                | 0  | 12 | 30 | 50 | 8  |
| MO                                | 1  | 4  | 22 | 55 | 18 |
| NE                                | 0  | 1  | 20 | 57 | 22 |
| NM                                | 21 | 51 | 23 | 5  | 0  |
| OK                                | 12 | 16 | 31 | 40 | 1  |
| SD                                | 0  | 3  | 8  | 78 | 11 |
| TX                                | 27 | 33 | 25 | 13 | 2  |
| ALL                               | 10 | 16 | 23 | 42 | 9  |
| Prev Wk                           | 9  | 15 | 28 | 42 | 6  |
| Prev Yr                           | 1  | 7  | 29 | 51 | 12 |

| Oats Crop Condition by Percent |    |    |    |    |    |
|--------------------------------|----|----|----|----|----|
|                                | VP | P  | F  | G  | EX |
| IA                             | 1  | 12 | 35 | 45 | 7  |
| MI                             | 9  | 17 | 46 | 26 | 2  |
| MN                             | 0  | 4  | 21 | 61 | 14 |
| NE                             | 3  | 5  | 18 | 64 | 10 |
| ND                             | 0  | 6  | 40 | 48 | 6  |
| OH                             | 0  | 5  | 31 | 56 | 8  |
| PA                             | 1  | 5  | 34 | 53 | 7  |
| SD                             | 0  | 5  | 15 | 59 | 21 |
| WI                             | 1  | 4  | 26 | 57 | 12 |
| ALL                            | 1  | 6  | 29 | 53 | 11 |
| Prev Wk                        | 1  | 5  | 29 | 53 | 12 |
| Prev Yr                        | 2  | 9  | 31 | 49 | 9  |

| Peanuts Crop Condition by Percent |    |    |    |    |    |
|-----------------------------------|----|----|----|----|----|
|                                   | VP | P  | F  | G  | EX |
| AL                                | 5  | 30 | 22 | 39 | 4  |
| FL                                | 0  | 3  | 11 | 72 | 14 |
| GA                                | 4  | 11 | 29 | 40 | 16 |
| NC                                | 0  | 0  | 2  | 97 | 1  |
| OK                                | 3  | 17 | 43 | 35 | 2  |
| SC                                | 19 | 35 | 37 | 9  | 0  |
| TX                                | 7  | 19 | 34 | 28 | 12 |
| VA                                | 0  | 2  | 10 | 63 | 25 |
| ALL                               | 4  | 14 | 26 | 44 | 12 |
| Prev Wk                           | 6  | 15 | 32 | 40 | 7  |
| Prev Yr                           | 0  | 4  | 27 | 57 | 12 |

| Barley Crop Condition by Percent |    |    |    |    |    |
|----------------------------------|----|----|----|----|----|
|                                  | VP | P  | F  | G  | EX |
| ID                               | 0  | 2  | 12 | 63 | 23 |
| MN                               | 2  | 8  | 38 | 47 | 5  |
| MT                               | 1  | 7  | 36 | 45 | 11 |
| ND                               | 1  | 6  | 25 | 53 | 15 |
| SD                               | 0  | 2  | 19 | 60 | 19 |
| WA                               | 0  | 2  | 39 | 54 | 5  |
| ALL                              | 1  | 5  | 28 | 53 | 13 |
| Prev Wk                          | 1  | 7  | 30 | 48 | 14 |
| Prev Yr                          | 2  | 10 | 31 | 48 | 9  |

| Spring Wheat Crop Condition by Percent |    |    |    |    |    |
|--|----|----|----|----|----|
|  | VP | P  | F  | G  | EX |
| ID                                     | 0  | 1  | 9  | 58 | 32 |
| MN                                     | 3  | 4  | 39 | 50 | 4  |
| MT                                     | 2  | 7  | 29 | 47 | 15 |
| ND                                     | 1  | 7  | 34 | 48 | 10 |
| SD                                     | 0  | 3  | 18 | 58 | 21 |
| ALL                                    | 1  | 6  | 31 | 49 | 13 |
| Prev Wk                                | 2  | 5  | 29 | 52 | 12 |
| Prev Yr                                | 3  | 13 | 41 | 38 | 5  |

| Rice Crop Condition by Percent |    |   |    |    |    |
|--------------------------------|----|---|----|----|----|
|                                | VP | P | F  | G  | EX |
| AR                             | 2  | 9 | 29 | 46 | 14 |
| CA                             | 0  | 0 | 20 | 80 | 0  |
| LA                             | 0  | 3 | 37 | 51 | 9  |
| MS                             | 1  | 3 | 21 | 60 | 15 |
| TX                             | 0  | 3 | 36 | 57 | 4  |
| ALL                            | 1  | 5 | 29 | 55 | 10 |
| Prev Wk                        | 1  | 3 | 35 | 52 | 9  |
| Prev Yr                        | 0  | 2 | 30 | 56 | 12 |

VP - Very Poor  
P - Poor  
F - Fair  
G - Good  
EX - Excellent

## State Agricultural Summaries

*These summaries, issued weekly through the summer growing season, 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 NASS State Statistical Offices in cooperation with the National Weather Service. The crop weather reports are also available on the Internet through the NASS Home Page on the World Wide Web at <http://www.usda.gov/nass/> or from JAWF at <http://www.usda.gov/ocel/waob/jawf>.*

**ALABAMA:** Days suitable for fieldwork 4.7. Topsoil 4% very short, 34% short, 55% adequate, 7% surplus. Crop yields potential improved, with recent rains. Corn dented 78%, 77% 1997, 76% avg. Peanuts pegging 91%, 84% 1997, 85% avg. Soybeans blooming 67%, 49% 1997, 55% avg. Corn 22% very poor, 27% poor, 29% fair, 22% good. Cotton 10% very poor, 20% poor, 26% fair, 43% good, 1% excellent. Soybean 4% very poor, 7% poor, 42% fair, 34% good, 13% excellent. Livestock 1% very poor, 8% poor, 51% fair, 39% good, 1% excellent. Pasture feed 2% very poor, 15% poor, 51% fair, 29% good, 3% excellent. Harvest of fruits is under full-swing. Armyworms continue to be found in some hay, peanuts fields.

**ALASKA:** Days suitable for fieldwork 3.0. Topsoil 15% short, 85% adequate. Subsoil 35% short, 65% adequate. Drier conditions over the Kenai allowed hay harvest to advance, while showers across the Tanana Valley improved the barley crop condition. Daytime high temperatures ranged mostly from the mid-50's to the upper-70's. Barley crop 30% in dough, 70% turning color. Barley conditions 60% poor, 30% fair, 10% good. Oats crop 85% dough, 15% turning color. Wind, rain damage to crops, 80% none, 10% light, 10% moderate. Potato acreage in bloom, 55%. Grass hay crop 90% harvested. Second crop brome height, 10".

**ARIZONA:** Pasture condition was mixed this month, with some improving and some declining in condition. An unseasonably wet spring caused pasture conditions to remain as good as they are. Many ranchers have reported that this is the first time in years that they received rain in July. Warm weather has caused soil moisture to decline, stock water is still adequate through most of the State. High elevation pastures were mainly in good condition, while low- and mid-elevation pastures were mainly in good to fair condition. Livestock were reported in good to fair condition. Soil moisture was short in most areas of the State. Insect damage was light. Overall, northern grazing conditions were good to fair in July. High-elevation pastures were in good condition, while mid-, low-elevation pastures were in fair to good condition. Cattle were reported in fair to good condition. Stock water supplies were mostly adequate, soil moisture was short. Insect damage was light to moderate. The conditions in central areas were generally unchanged from last month. All elevations were in good to fair condition. Livestock conditions were good; both stock water and soil moisture were adequate. Insect damage was light. Southern grazing conditions were good to fair at all elevations. Livestock conditions were good to fair. Stock water was adequate, while soil moisture was short. Insect damage was light. Alfalfa harvest 27% not being harvested, 8% moderate, 65% active. Alfalfa 1% very poor, 3% poor, 18% fair, 62% good, 16% excellent. Scattered heavy rains limited harvest, caused some damage. Central, western areas growers finished harvesting grapes and melons last week. Central areas growers harvested a small volume of cantaloupes, while western area producers ended the season with shipments of cantaloupes, honeydews, watermelons, seedless flame grapes, perlette grapes, seedless Thompson grapes. Central, western areas groves shipped a small volume of grapefruit last week.

**ARKANSAS:** Days suitable for fieldwork 5.9. Soil moisture 36% very short, 40% short, 19% adequate, 5% surplus. A weak cold front moved through the State late in the week, lowering temperatures over the northern half briefly. Rainfall through the week was mostly over the north, east. Temperatures remain well above normal, precipitation 3/4 to 1 inch below normal over most of the State. The main farming activities included scouting rice for diseases, insects, irrigating soybeans, rice, cotton, cultivating, spraying soybeans for weeds. Other farm activities included bush hogging and weed clipping, harvesting hay, spraying cotton for weevils, preparing for the corn harvest. The lack of rainfall, extreme heat has caused some farmers to abandon their soybean crops. In addition, the hot, dry weather has forced the early culling of some cow herds due to poor pasture conditions, some cattle producers were forced to feed hay due to the high temperatures, low moisture levels. Corn 8% very poor, 14% poor, 37% fair, 37% good, 4% excellent. Alfalfa 8% very poor, 30% poor, 24% fair, 38% good. Other hay 11% very poor, 33% poor, 34% fair, 22% good. Range, pasture feed 15% very poor, 36% poor, 35% fair, 14% good.

**CALIFORNIA:** Though crop development remained well behind normal, field activities made good progress under favorable weather in most areas. Grain harvests of wheat, barley, oats were virtually complete, except at high elevations. Small grain stubble was baled for straw, some fields were then prepared for fall-planted crops. Planting of corn following small grain harvest continued. Corn silage harvest was in full swing in the San Joaquin Valley, while harvest of corn for grain was active from Fresno County southward. Herbicide applications on rice fields continued, were winding down in most areas. Cotton growth continued to improve, development remained 2 to 4 weeks behind normal. Cotton growers in the San Joaquin, Sacramento Valleys were cultivating, weeding, treating fields for lygus, mites, worms. Seed alfalfa was sprayed for aphids, armyworms, lygus, mites, stinkbugs. Alfalfa hay fields were treated for worms. Black eye beans were blooming, setting pods; harvest was at least a month away in most fields. Sugar beets were sprayed for weeds in the San Joaquin Valley. Alfalfa, sudan grass were cut for hay or green chopped. Harvest activities continued to dominate fruit growers' work. Picking of table grapes in the San Joaquin Valley was active. With the recent heat and humidity, premature bunch rot caused growers concern. Vineyards were treated to control powdery mildew and mites. Coachella Valley Thompson seedless, flame seedless varieties were harvested for fresh use. San Joaquin Valley stone fruit growers were picking nectarines, plums, freestone peaches. Early variety clingstone peaches were also being picked. Bartlett pear harvest continued in the Sacramento, San Joaquin Valleys. Picking of Asian pears was also active in the San Joaquin Valley. Almond growers prepared orchards for harvest by mowing, applying herbicides between the trees. Walnut growers whitewashed trees for sunburn protection. Harvest of lemons in the south coast area, grapefruit, Valencia oranges remained active. Fall melons were being planted in the Imperial Valley. Garlic harvest continued in the coastal areas, in the Central valley. Fungus continued to diminish yields in the central coast area. Harvest of fresh, processing tomatoes was in full swing in the San Joaquin Valley, with large numbers of fresh green tomatoes being exported to Mexico. Tomato harvest in the Sacramento Valley was increasing in volume. Harvest activity was very light in the northern part of the valley, expected to rapidly increase in the next week. Insect pressure in the Sacramento Valley was high. Cantaloupe, honeydew, watermelon harvests continued to increase in volume in the San Joaquin, Sacramento Valleys. Sweet corn harvest continued in the Central valley; various pests remained a problem. Ground preparation for fall spinach planting began in the San Joaquin Valley, cauliflower sets were being planted. Cauliflower, broccoli, lettuce continued to be harvested in the central coast region. Other vegetables harvested in the Central Valley included bell peppers, carrots, snap beans, various herbs, cucumbers, beets, turnips, squash, pumpkins, exotic vegetables. Pasture, rangeland remained in generally good condition, with quality, quantity of feed still above normal for this late in the season. Irrigated pastures were in excellent shape, with adequate supplies of irrigation water. Danger of range fires on low-elevation foothill slopes remained very high. Cattle were moved to high-elevation ranges for better quality feed, abundant stock water. Ranchers continued moving moderate numbers of livestock to market. Dairy operators imported high-quality, high-protein hay from out of State to improve protein levels in feed rations. Bees continued to pollinate seed alfalfa, melon fields.

**COLORADO:** Days suitable for fieldwork 3.2. Topsoil moisture 1% very short, 12% short, 76% adequate, 11% surplus. Subsoil moisture 5% very short, 17% short, 76% adequate 2% surplus. The week was dominated by below-average temperatures accompanied by frequent and sometimes very heavy rain and hail storms, especially in eastern areas. Spring barley 80% turning color, 83% 1997, 72% avg.; 16% harvested, 28% 1997, 17% avg.; 6% poor, 19% fair, 48% good, 27% excellent. Oats 72% turning color, 84% 1997, 80% avg.; 34% harvested, 61% 1997, 40% avg.; 3% poor, 19% fair, 62% good, 16% excellent. Dry onions 1% very poor, 1% poor, 10% fair, 68% good, 20% excellent. Sugar beets 2% poor, 15% fair, 64% good, 19% excellent. Summer potatoes 1% harvested, 5% 1997, 5% avg.; 2% fair, 79% good, 19% excellent. Fall potatoes 7% poor, 15% fair, 40% good, 38% excellent. Dry beans 70% flowered, 76% 1997, 63% avg.; 1% poor, 13% fair, 59% good, 27% excellent. Alfalfa 59% 2nd cutting, 74% 1997, 63% avg.; 1% very poor, 4% poor, 26% fair, 54% good, 15% excellent. Spring wheat 63% turning color, 71% 1997, 68% avg.; 16% harvested, 9% 1997,

12% avg.; 5% poor, 21% fair, 42% good, 32% excellent. Livestock in mostly fair to good condition.

**DELAWARE:** Days suitable for fieldwork 6.0. Topsoil 8% very short, 72% short, 20% adequate. Subsoil 5% very short, 56% short, 39% adequate. Soybeans 29% bloomed, 45% 1997, 47% avg.; 15% setting pods, 10% 1997, 11% avg.; 7% poor, 40% fair, 47% good, 6% excellent. Apples 6% harvested, 7% 1997, 6% avg.; 6% fair, 67% good, 27% excellent. Peaches 38% harvested, 28% 1997, 38% avg.; 60% good, 40% excellent. Sorghum 26% headed, 14% 1997, 33% avg.; 9% poor, 50% fair, 39% good, 2% excellent. Sweet corn 36% harvested, 38% 1997, 49% avg. Watermelons 26% harvested, 22% 1997, 23% avg. Cucumbers 40% harvested, 50% 1997, 55% avg. Cantaloupe 43% harvested, 38% 1997, 44% avg. Snap beans 38% harvested, 27% 1997, 48% avg. Lima beans 29% harvested, 11% 1997, 12% avg. Tomatoes 33% harvested, 29% 1997, 29% avg. Potatoes 30% harvested, 45% 1997, 43% avg. Field corn 75% silked, 69% 1997, 86% avg.; 27% dough, 11% 1997, 22% avg.; 8% dent, 2% 1997, 4% avg.; 5% mature; 3% very poor, 16% poor, 22% fair, 49% good, 10% excellent. Alfalfa 40% 3rd cutting harvested, 26% 1997, 33% avg.; 5% 4th cutting. Other hay 66% 3rd cutting, 5% 1997, 18% avg. Hay supplies 15% short, 85% adequate. Pasture feed 12% poor, 22% fair, 63% good, 3% excellent. Activities: Dry weather still causing stress on field crops. Fruit doing well.

**FLORIDA:** Topsoil moisture throughout State mostly short to adequate, with scattered areas very short moisture. Afternoon thunderstorms dropped from 0.50 in. at Daytona Beach to over 7.00 in. at Tallahassee. Temperatures averaged 1 to 3 degrees Fahrenheit above normal. Daytime highs mostly low 90's, nighttime lows mostly 70's, 80's. Strong winds, tornadoes during storms caused varying amounts of property damage, with no significant losses for agriculture. Threat of bad weather from Tropical Storm Alex disappeared as storm weakened, veered away. Haying active. Tobacco harvest, marketing are active. Peanuts, cotton crop recovering from earlier drought. Peanuts pegged 84%; poor 3%, fair 11%, good 72%, excellent 14%. Land preparation for fall vegetable planting gaining momentum. Tomato planting virtually finished around Quincy. Okra harvesting continues, Homestead area. Picking of summer vegetables for local markets active. Scattered rains, few thunderstorms, more rains needed, some irrigation continues citrus areas. Abundant new growth in well-cared-for groves. Poorly maintained groves showing yellow foliage, varying fruit sizes. Caretakers cutting cover crops, spraying, fertilizing, pushing, burning dead, sick unthrifty trees. Pasture feed fair 55%, good 40%, excellent 5%. Most areas reported improved pasture conditions. However, areas that received little rain only fair. West-central area armyworm infestation still heavy. Statewide cattle condition fair to good. Cattle fair 65%, good 35%.

**GEORGIA:** Days suitable for fieldwork 5.6. Soil moisture 15% very short, 33% short, 47% adequate, 5% surplus. Corn 78% dent, 84% 1997, 88% avg.; 54% mature, 50% 1997, 57% avg.; 7% harvested for grain, 6% 1997, 6% avg. Cotton 9% bolls open, 0% 1997, 1% avg. Hay 15% very poor, 26% poor, 33% fair, 24% good, 2% excellent. Sorghum 17% very poor, 19% poor, 38% fair, 25% good, 1% excellent. Tobacco 4% very poor, 11% poor, 38% fair, 45% good, 2% excellent; 36% harvested, 71% 1997, 60% avg. Watermelons 95% harvested, 88% 1997, 93% avg. Apples 1% very poor, 3% poor, 5% fair, 91% good; 2% harvested, 2% 1997, 4% avg. Peaches 20% very poor, 20% poor, 30% fair, 24% good, 6% excellent; 90% harvested, 98% 1997, 96% avg. Pecans 16% very poor, 23% poor, 42% fair, 17% good, 2% excellent. Frequent showers beneficial for most crops. Soil moisture ratings highest since mid May. Overall crop conditions show slight improvement. Too late for most corn fields, good harvest progress between showers. Some improvement for cotton, worms, insects on increase. Weeds heavy many fields. Peanuts responded well to improved moisture. Best conditions since late May, worms, insects increasing. Army worms showing up in soybeans, showers improved most fields. Tobacco harvest slow, 2 weeks late. Pastures, hay fields improving slowly, army worms increasing.

**HAWAII:** Extended sunny, dry days in most areas were fair for agriculture. Rainfall was light and limited to windward areas. Banana harvesting remained very active on major producing islands. Orchard conditions mostly good; a few in need of rain. Papaya production active, most orchards in good condition. Steady harvesting expected for most vegetables. Production of head, Chinese cabbage will be heavy. Vegetable in mostly fair condition, some good. Irrigation ensuring normal crop development.

**IDAHO:** Days suitable for fieldwork 6.6. Topsoil moisture 2% surplus, 52% adequate, 43% short, 3% very short. Fifth consecutive week of above-normal temperatures. Powdery mildew in hop and sugarbeet fields. Alfalfa hay 63% 2nd cutting, 54% 1997, 52% avg.; 3% 3rd cutting, 3% 1997, 1% avg. Irrigation supply 31% excellent, 66% good, 3% fair. Mint 14% harvested, 18% 1997, 39% avg. Lentils 6% harvested, 0% 1997, 8% avg. Dry peas 30% harvested, 10% 1997, 17% avg. Oats 2% harvested, 6% 1997, 9% avg. Peaches 3% harvested, 20% 1997, 25% avg. Potatoes 89% closing middles, 92% 1997, 88% avg. Barley 63% turning color. Spring wheat 69% turning color. Winter wheat 99% turning color. Activities: Spraying potatoes for late blight, monitoring insect infestation, harvesting hay, mint, small grains, lentils, mustard seed, bluegrass, peaches, weed control, irrigating.

**ILLINOIS:** Days suitable for fieldwork 5.6. Topsoil 2% very short, 21% short, 59% adequate, 18% surplus. Cooler temperatures last week helped to ease livestock stress, provided good conditions for corn pollination. Despite the cool weather, topsoil moisture condition continued to decline. There is a strong contrast between the northern, southern half of the State, with surplus soil moisture continuing in the southern districts, shortage of soil moisture being reported in northern, central districts. Both corn, soybean conditions remained stable from the previous week. Farming activities last week included baling hay, spraying late-planted soybeans, scouting for nematodes, basic farm maintenance, attending county fairs. Corn dented 4%, 1% 1997, 2% avg. Oats turning yellow 99%, 100% 1997, 98% avg.; ripe 98%, 89% 1997, 83% avg.; harvested 69%, 52% 1997, 56% avg. Alfalfa 95% 2nd cutting, 87% 1997, 86% avg.; 3rd cutting 20%, 12% 1997, 15% avg.

**INDIANA:** Days suitable for fieldwork 5.9. Topsoil 3% very short, 15% short, 72% adequate, 10% surplus. Subsoil 2% very short, 13% short, 75% adequate, 10% surplus. There was plenty of warm, sunny weather across the State during the past week, with no district recording fewer than 4 days suitable for fieldwork. Days not suitable were primarily early in the week, result of excessive moisture received during the previous week. Range, pasture feed 1% very poor, 4% poor, 22% fair, 57% good, 16% excellent. Alfalfa 89% 2nd cutting complete, 75% 1997, 82% avg. Activities: Cutting alfalfa, spraying, cultivating crops, attending 4-H fairs, caring for livestock.

**IOWA:** Days suitable for fieldwork 6.9. Topsoil very short 8%, short 35%, adequate 55%, surplus 2%. Subsoil very short 4%, short 20%, adequate 72%, surplus 4%. Past week left most of the State looking for rain. In some areas, farmers received less than an inch of rain in July; row crops are starting to feel the strain. Oat harvest is nearing completion, yields lower than expected. Dry conditions allowed haying to "catch up." The 1998 row crops: Corn tasseled 98%, 96% 1997, 82% avg; silking 94%, 89% 1997, 71% avg.; milk stage 52%, 14% 1997, 19% avg.; 3% very poor, 6% poor, 23% fair, 46% good, 22% excellent. Soybeans blooming 95%, 94% 1997, 83% avg.; setting pods 70%, 54% 1997, 44% avg.; 2% very poor, 6% poor, 21% fair, 48% good, 23% excellent. Oats harvested for grain 94%, 71% 1997, 66% avg. Second crop alfalfa harvested 88%, 84% 1997, 71% avg. Second crop clover harvested 57%, 47% 1997, 39% avg. All hay 1% very poor, 5% poor, 30% fair, 50% good, 14% excellent. Pasture feed 1% very poor, 12% poor, 35% fair, 45% good, 7% excellent.

**KANSAS:** Days suitable for fieldwork 2.0. Topsoil moisture 1% very short, 12% short, 66% adequate, 21% surplus. Subsoil moisture 2% very short, 15% short, 75% adequate, 8% surplus. Scattered showers, cooler temperatures across the State improved row crop conditions. Sunflowers bloom 43%, 20% 1997, NA avg. Sunflowers 1% poor, 23% fair, 68% good, 8% excellent. Third cutting alfalfa hay 51%, 66% 1997, 49% avg. Major field activities were cutting hay, working stubble, cultivating, irrigating, fertilizing. Pasture conditions 1% very poor, 6% poor, 28% fair, 56% good, 9% excellent. The showers improved pasture conditions. Stock water supplies 6% short, 89% adequate, 5% surplus.

**KENTUCKY:** Days suitable for fieldwork 4.4. Topsoil 7% short, 73% adequate, 20% surplus. Subsoil 8% short, 69% adequate, 23% surplus. Below-normal temperatures, dry weather improved outlook for crops. Wet fields in the southwestern continued to slow haying progress, tobacco topping. Blue mold, black shank are still a concern in many areas. Burley tobacco blooming or beyond was 57%. Burley topped 32%. Dark tobacco topped 62%; 2% very poor, 11% poor, 31% fair, 42% good, 14% excellent. Hay 1% very poor, 3% poor, 22% fair, 53% good, 21% excellent. Pasture feed 2% poor, 19% fair, 57% good, 22% excellent.

**LOUISIANA:** Days suitable for fieldwork 6.3. Soil moisture 46% very short, 29% short, 24% adequate, 1% surplus. Corn 15% very poor, 16% poor, 44% fair, 15% good, 10% excellent; 90% mature, 58% 1997, 62% avg.; 20% harvested, 7% 1997, 7% avg. Cotton 6% open bolls, 0% 1997, 0% avg. Cotton is reported in good condition. Hay 100% first cutting, 100% 1997, 100% avg.; 27% final cutting, 58% 1997, 41% avg. Peaches 95% harvested, 96% 1997, 83% avg. Rice 50% ripe, 25% 1997, 25% avg.; 28% harvested, 14% 1997, 15% avg. Rice harvest is beginning to pick up speed, with severe red rice and panicle blight in some fields. Sorghum 15% ripe, 3% 1997, 8% avg. Sorghum yields are expected to be below normal. Soybeans 1% turning color, 2% 1997, 0% avg. Group IV soybeans are progressing, but many fields have stunted growth, insect problems. Sugarcane 4% very poor, 11% poor, 28% fair, 42% good, 15% excellent. Sweet potatoes 6% very poor, 14% poor, 62% fair, 18% good; 2% harvested, 2% 1997, 2% avg. Livestock 6% very poor, 14% poor, 40% fair, 36% good, 4% excellent. Vegetables 26% very poor, 25% poor, 26% fair, 21% good, 2% excellent. Hay producers remain pessimistic about a second cutting of hay because of severe weather conditions.

**MARYLAND:** Days suitable for fieldwork 6.0. Topsoil moisture 19% very short, 49% short, 32% adequate. Subsoil moisture 14% very short, 46% short, 40% adequate. Field corn 5% very poor, 13% poor, 32% fair, 45% good, 5% excellent; 80% silked, 54% 1997, 74% avg.; 34% dough, 9% 1997, 23% avg.; 9% dent, 1% 1997, 3% avg.; 5% mature. Soybeans 1% very poor, 51% poor, 21% fair, 24% good, 3% excellent; 47% bloomed, 42% 1997, 43% avg.; 29% setting pods, 17% 1997, 11% avg. Sorghum 1% very poor, 21% poor, 59% fair, 16% good, 3% excellent; 76% headed, 28% 1997, 30% avg.; turning color 5%. Tobacco 1% very poor, 16% poor, 41% fair, 34% good, 8% excellent; 60% bloomed, 57% 1997, 60% avg.; 20% topped. Sweet corn 72% harvested, 47% 1997, 45% avg. Snap beans 81% harvested, 47% 1997, 54% avg. Lima beans 80% harvested, 0% 1997, 8% avg. Cucumbers 61% harvested, 53% 1997, 62% avg. Pasture 11% very poor, 20% poor, 40% fair, 29% good. Apples 10% fair, 77% good, 13% excellent; 8% harvested, 2% 1997, 1% avg. Cantaloupe 63% harvested, 49% 1997, 51% avg. Watermelons 44% harvested, 32% 1997, 41% avg. Potatoes 100% harvested, 54% 1997, 64% avg. Tomatoes 48% harvested, 17% 1997, 38% avg. Peaches 1% fair, 86% good, 13% excellent, 40% harvested, 16% 1997, 32% avg. Other hay 81% 2nd cutting harvested, 66% 1997, 69% avg.; 50% 3rd cutting, 6% 1997, 13% avg. Alfalfa hay 38% 3rd cutting, 59% 1997, 46% avg.; 10% 4th cutting. Hay supplies 2% very short, 10% short, 69% adequate, 19% surplus. Activities: Up to 1" rainfall in some areas. More rain still needed to maintain crop growth. Various reports of stress on soybeans, tobacco, and corn. Fruit doing well.

**MICHIGAN:** Days suitable for fieldwork 7.0. Topsoil 48% very short, 43% short, 9% adequate. Subsoil 45% very short, 46% short, 8% adequate, 1% surplus. All hay second cutting 90%, 68% 1997, 63% avg. Corn height 70 inches, 71 inches 1997, 64 inches avg. Drybeans blooming 69%, 79% 1997, 57% avg.; setting pods 33%, 15% 1997, 11% avg. Oats turning yellow 96%, 84% 1997, 80% avg. Very little precipitation. Past 90 days much of central State received 50% to 75% of normal rain. A north-central region received 25% to 50% of normal rain. Rain is now critical if some crops to survive in some areas. Corn hit hardest by continued dry weather, leaves rolling, plants drying. Some farmers considering chopping instead of harvesting for grain. Soybeans faring better with better chance of normal yields if rain comes soon. New growth alfalfa very slow, plants blooming at short height. Sugar beets surviving dry spell but wilting in the afternoons. Moderate temperatures helped to reduce moisture stress. Cantaloupe harvest began. Cucumbers good quality where irrigated. Summer squash, zucchini, cabbage, carrot harvest active. Bell, hot and sweet pepper harvests active. Sweet corn harvest increased. Tomato volume picking up. Fruit development 2 weeks ahead of normal, and dry conditions suppressed diseases. Shaking of tart cherries neared completion. Soft fruit a quality concern northwest. Harvesting of Jersey blueberries continued. Crop volume declined due to small fruit size and soft fruit; bird damage severe. Stanley plums began coloring; Shiro and Ozark Premiers picked. Red haven peach harvest continued. Coloring a problem on trees, with excessive vegetative growth. McIntosh apple harvest should start about August 27; empire picking will start September 1. Trees began to show signs of moisture stress, and fruit sizing has begun to suffer

**MINNESOTA:** Days suitable for fieldwork 6.5. Topsoil 7% very short, 23% short, 68% adequate, 2% surplus. Corn 53% milk, 14% 1997, 14% avg. Spring wheat 95% turning ripe, 70% 1997, 63% avg. Oats 98% turning ripe, 88% 1997, 86% avg. Barley 98% turning ripe, 68% 1997, 65% avg. Rye 79% harvested, 26% 1997, 37% avg. Winter wheat 63% harvested, 19% 1997, 24% avg. Sweet corn 23% harvested, 4% 1997, 5% avg. Pasture feed 4% very poor, 8% poor, 35% fair, 48% good, 5% excellent. Sugar beets

1% very poor, 1% poor, 7% fair, 81% good, 30% excellent. Sunflowers 2% very poor, 11% poor, 15% fair, 65% good, 7% excellent. Dry beans 0% very poor, 3% poor, 28% fair, 49% good, 20% excellent. After 2 weeks in which the average precipitation has been below normal, much of the State was in need of some rain. However, the drier conditions allowed the harvesting of the small grains to make good progress. Due to the lack of rain, the major row crops, pastures have started to show some signs of stress in areas of the State.

**MISSISSIPPI:** Days suitable for fieldwork 6.4. Soil moisture 5% very short, 30% short, 60% adequate, 5% surplus. Corn 98% dough, 89% 1997, 89% avg.; 84% dent, 70% 1997, 59% avg.; 50% mature, 19% 1997, 16% avg.; 60% silage harvested 34% 1997, 31% avg.; 6% very poor, 24% poor, 43% fair, 19% good, 8% excellent. Rice 76% heading, 59% 1997, 60% avg.; 1% very poor, 3% poor, 21% fair, 60% good, 15% excellent. Soybeans 98% blooming, 73% 1997, 74% avg.; 77% setting pods, 42% 1997, 42% avg.; 2% very poor, 9% poor, 26% fair, 54% good, 9% excellent. Peanuts, 91% pegging, 98% 1997; 1% very poor, 1% poor, 21% fair, 67% good, 10% excellent. Hay 69% harvested (warm season) 68% 1997, 73% avg.; 2% very poor, 8% poor, 36% fair, 42% good, 12% excellent. Peaches 93% harvested, 78% 1997, 86% avg.; 5% poor, 27% fair, 58% good, 10% excellent. Watermelons 78% harvested, 76% 1997, 74% avg.; 4% very poor, 59% poor, 24% fair, 9% good, 4% excellent. Blueberries 3% very poor, 7% poor, 58% fair, 30% good, 2% excellent. Cattle 13% poor, 25% fair, 52% good, 10% excellent. Pasture feed 6% very poor, 13% poor, 26% fair, 46% good, 9% excellent. Activities: Hot weather continues to push the corn crop toward maturity. Some producers are concerned about aflatoxin in some cornfields. Other row crops rated in good-to-fair condition.

**MISSOURI:** Days suitable for fieldwork 2.3. Topsoil 4% percent short, 63% adequate, 33% surplus. Cooler temperatures, improved moisture supply have helped crops in most areas, some crops along river bottoms, in Bootheel are flooding. The Bootheel had been the main area of moisture shortage, but now has the highest moisture rating 71% surplus. The west-central and central are also excessively wet 44% surplus moisture. Condition of bean crop is the lowest in the Bootheel, many bean fields in the southeast counties have standing water, with effects ranging from stunted growth to drowning. Cotton also suffering from excessive rainfall, many fields waterlogged. The frequent showers made haying difficult, reduced quality of hay. Oats harvested 97%, 99% 1997, 91% avg. Second crop alfalfa cut 95%, 95% 1997, 87% avg. Third crop alfalfa cut 32%, 26% 1997, 22% avg. Other hay cut 92%, 94% 1997, 90% avg. Precipitation past week avg 2.28 in., resulting in flash floods causing some roads to wash out, crop losses in low fields. Heaviest rains occurred in Bootheel 4.50 in. Pasture feed 4% poor, 24% fair, 62% good, 10% excellent.

**MONTANA:** Days suitable for fieldwork 6.3. Topsoil moisture 15% very short, 55% short, 30% adequate. Subsoil moisture 17% very short, 49% short, 34% adequate. Winter wheat harvest is well under way throughout the State. Spring grain harvest has also started over much of the State. Oats harvested 12%, 1% 1997, 1% avg.; headed 100%, 99% 1997, 97% avg.; turning 90%, 70% 1997, 57% avg.; 1% very poor, 4% poor, 25% fair, 56% good, 14% excellent. Alfalfa 97% 1st cut, 96% 1997, 91% avg.; 2nd cutting 25%, 12% 1997, 16% avg. Other hay 79% 1st cutting, 81% 1997, 74% avg.

**NEBRASKA:** Days suitable for fieldwork 4.8. Topsoil 1% very short, 20% short, 75% adequate, 4% surplus. Subsoil 2% very short, 16% short, 79% adequate, 3% surplus. Temperatures 3 to 6 degrees Fahrenheit below normal, with widespread precipitation reducing irrigation demands. Rainfall varied from traces in the northeast to over 8 inches in the Southeast. Wheat 96% combined, 96% 1997, 88% avg. Corn 1% very poor, 3% poor, 15% fair, 59% good, 22% excellent; irrigated corn 83% good or excellent; dryland corn 76% good or excellent. Silked 94%, 88% 1997, 76% avg.; dough 14%, 11% 1997, 13% avg. Soybean 3% poor, 16% fair, 63% good, 18% excellent; blooming 90%, 90% 1997, 77% avg.; podding 42%, 36% 1997, 31% avg. Sorghum 1% poor, 20% fair, 57% good, 22% excellent; headed 46%, 33% 1997, 27% avg. Dry beans 2% very poor, 5% poor, 27% fair, 56% good, 10% excellent; blooming 66%, 86% 1997, 70% avg. Oats 3% very poor, 5% poor, 18% fair, 64% good, 10% excellent; harvest 89%, 92% 1997, 76% avg. Alfalfa 1% very poor, 5% poor, 22% fair, 61% good, 11% excellent; 2nd cutting 93%, 88% 1997, 85% avg.; 3rd cutting 3%, 4% 1997, 6% avg. Wild hay 1% very poor, 6% poor, 20% fair, 56% good, 17% excellent. Pasture feed 2% very poor, 6% poor, 19% fair, 55% good, 18% excellent. Pastures with adequate moisture showing regrowth. Livestock conditions improved with the moderate temperatures. Activities: Native hay harvest, weed control, working summer fallow, moving grains to market, livestock care.

**NEVADA:** Temperatures moderated somewhat as storm systems passed through the State. Precipitation totals near 1/2 inch were recorded in the northeast; only traces were received in the northwest, south. Temperatures averaged near normal northwest, several degrees below normal northeast. Irrigation water supplies remained adequate most areas. Second-cutting alfalfa haying was in full swing, rains damaged much cut hay in the Mason Valley. Cutting of other types of hay was also underway. Alfalfa seed fields in the Lovelock area were being treated to control mites. Winter wheat, barley harvests were underway, some spring grains were ripening for harvest. Crop condition for grains mostly good in the principal producing counties of the north. Harvest of garlic for seed use was progressing with crop condition reported to be good. Onions were in good condition, with harvest nearing. Potatoes remained in good condition. Pasture and range condition improved in response to rains in the northeast, rating mostly good to excellent. Main farm, ranch activities: Haying, harvesting grain, irrigating, fence repair, weed, pest control.

**NEW ENGLAND:** Days suitable for fieldwork 6.3. Topsoil 1% very short, 15% short, 78% adequate, 6% surplus. Subsoil 1% very short, 6% short, 86% adequate, 7% surplus. Pasture feed 5% poor, 44% fair, 47% good, 4% excellent. Maine potatoes <5% harvested, 0% 1997, 0% average; condition good to excellent. Massachusetts potatoes 5% harvested, 5% 1997, 5% average; condition good. Rhode Island potatoes 0% harvested, 15% 1997, <5% average; condition good. Oats in Maine condition good to excellent. Barley in Maine <5% harvested, 0% 1997, 0% average; condition good to excellent. Field corn condition good. Sweet corn 100% planted, 25% harvested, 15% 1997, 20% average; condition good to fair. Shade tobacco 70% harvested, 40% 1997, 30% avg.; condition good. Broadleaf tobacco 30% harvested, 5% 1997, 10% average; condition fair to good. First-cut hay 90% harvested, 95% 1997, 95% avg.; condition good to fair. Second-cut hay 40% harvested, 50% 1997, 40% average; condition good to fair. Apples <5% harvested, <5% 1997, <5% average; set below average to average, size average; condition good to fair. Peaches 20% harvested, 5% 1997, 5% average, set average, size average; condition good. Pears <5% harvested, 0% 1997, 0% average; set below average to average, size average; condition good. Strawberries 100% harvested, 99% 1997, 100% avg.; set average, size average, condition fair to good. Cranberries set average, size average, condition good. Highbush blueberries 65% harvested, 30% 1997, 40% avg.; set average to above average, size average; condition good to excellent. Wild blueberries <5% harvested, <5% 1997, <5% average; set above average, size average to above average; condition good to excellent. The warm temperatures provided excellent crop conditions. Major farm activities included: harvesting highbush blueberries, string weaving tomatoes, hand weeding row vegetables, spreading manure, spraying herbicides, pesticides, cutting first-, second-cut hay.

**NEW JERSEY:** Days suitable for fieldwork 6. Topsoil moisture is short. Weather has been dry. Warm days, cool nights, low humidity has been beneficial for keeping diseases down in vegetables, has been too dry for the field crops. Sprays are working well in orchards, vegetable fields. Irrigation has been a must. Farmers are harvesting vegetables, fruits, cutting hay, planting fall vegetables, irrigating, spraying for disease, pests. Crop progress is at a normal pace. Feed requirements are below average. Most summer varieties are in good condition although irrigation, spraying have been a necessity. Good volume of tomatoes, sweet corn, watermelons cantaloupe, cucumbers, peppers, all beans, all squash, eggplant. Moderate volume of beets, herbs, leeks, okra, cabbage, turnips. All leafy greens are in a light supply. The warm, dry weather has helped to keep disease down. Some fall vegetable varieties are beginning to be planted. Fruits and berries are continuing to size well. Peach harvest is in full swing, with Loring variety being prominent. Peach color is good, and they are sizing rapidly. The blueberry harvest is drawing to a close; a moderate volume will exist for about 2 more weeks. Apples and cranberries are sizing well and ahead of normal. Crops are still in need of rain, especially soybeans, corn. The dry weather has been good for drying out hay. Farmers are putting up second, some third cuttings. Pastures are in an average to dry condition, and need rain.

**NEW MEXICO:** Days suitable for fieldwork 6.4. Topsoil improved slightly; 27% very short, 33% short, 35% adequate, 5% surplus. Most of the State received rainfall from scattered thunderstorms last week. Accumulated totals reached 2.80 in. southwest. Cotton finished squaring last week, 100% squared, 100% 1997, 97% avg.; 79% setting bolls, 89% 1997, 81% avg.; 15% poor, 27% fair, 48% good, 10% excellent. Corn crop was 70% tasseled last week, 65% 1997, 55% avg.; 20% in dough stage, 2% 1997, 18% avg.; 3% very poor, 9% poor, 35% fair, 51% good, 2% excellent. Sorghum

plantings were completed last week, 100% planted, 100% 1997, 100% avg.; 2% headed, 9% 1997, 13% avg.; 21% very poor, 51% poor, 23% fair, 5% good. Third cutting of alfalfa moved to 78% complete, 80% 1997; 69% avg.; 4th cutting 12% complete, 10% 1997; 7% avg.; 9% poor, 41% fair, 46% good, 4% excellent. Optimism for the chile crop continued; 6% poor, 15% fair, 69% good, 10% excellent. Onion harvest neared completion, with 90% picked; condition remained good to excellent. Lettuce planting began, progressed to 10% complete. Apples, pecans remained good condition. Cattle, sheep conditions were rated as fair. Overall, range, pasture feed condition improved to 14% very poor, 32% poor, 34% fair, 13% good, 7% excellent.

**NEW YORK:** Days suitable for fieldwork 6.4. Soil moisture 40% short, 60% adequate. Pasture feed 50% fair, 36% good, 14% excellent. Corn 8% fair, 62% good, 30% excellent. Hay 15% fair, 85% good. Alfalfa 2nd cutting 81% complete, 64% 1997, 63% avg. Excellent regrowth. Wheat 98% harvested, 61% 1997, 72% avg. Oats 35% harvested, 27% 1997, 30% avg. Vegetable harvests were in full swing. Onions, cabbage were in fair condition. Orange County onion growers continued to access the hail-damaged crop. High winds caused trellis damage in the Lake Erie grape belt. Overall, grapes in good condition. Early varieties of apples, pears being picked.

**NORTH CAROLINA:** Days suitable for fieldwork 5.9. Soil moisture 14% very short, 40% short, 40% adequate, 6% surplus. Rainfall was reported in most of the major crop growing areas. Temperatures were a little cooler across the State but still above normal. Rainfall, coupled with the cooler temperatures, made for more favorable growing conditions as the tobacco, cotton, and soybeans improved from a week ago. Activities included: Pest control in all crops; topping, harvesting, irrigating tobacco; harvesting truck crops; cutting hay, tending livestock.

**NORTH DAKOTA:** Days suitable for fieldwork 6. Topsoil moisture 7% very short, 38% short, 53% adequate, 2% surplus. Subsoil moisture 6% very short, 32% short, 59% adequate, 3% surplus. Favorable weather has allowed producers to actively swath, harvest small grains, which is about 2 weeks ahead of the 5-year avg. Late-season crops continued to develop ahead of avg., 1997. Durum wheat 90% milk, 65% 1997, 58% avg.; 47% turning, 27% 1997, 17% avg.; 1% combined, 1% 1997, 0% avg. Canola 66% turning, 19% 1997; 5% swathed, 2% 1997. Corn 92% tasseling, 84% 1997, 62% avg.; 40% milk, 37% 1997, 17% avg. Dry edible beans 93% podding, 56% 1997, 53% avg.; 39% fully podded, 9% 1997, 8% avg. Flaxseed 99% blooming, 96% 1997, 77% avg.; 38% turning, 11% 1997, 8% avg. Potatoes 100% rows filled, 84% 1997, 82% avg. Soybeans 75% podding, 66% 1997, 54% avg.; 12% fully podded, 11% 1997, 9% avg. Sunflower 40% blooming, 30% 1997, 22% avg. Small grain crop conditions declined as the crop approaches maturity. Sugar beets, potatoes, canola, corn, soybeans, and sunflowers improved; however, late-season crops are showing stress due to lack of moisture. Emerged crop condition: Durum 15% poor, 30% fair, 47% good, 8% excellent; canola 6% poor, 19% fair, 54% good, 21% excellent; corn 4% very poor, 7% poor, 27% fair, 53% good, 9% excellent; dry edible beans 1% very poor, 11% poor, 29% fair, 46% good, 13% excellent; flaxseed 6% poor, 26% fair, 56% good, 12% excellent; potatoes 2% poor, 12% fair, 52% good, 34% excellent; soybeans 5% very poor, 14% poor, 33% fair, 40% good, 8% excellent; Sugar beets 2% very poor, 3% poor, 11% fair, 47% good, 37% excellent; sunflower 1% very poor, 7% poor, 26% fair, 54% good, 12% excellent. Stock water 2% very short, 12% short, 83% adequate, 3% surplus. Hay 68% of normal, which is an improvement from last week.

**OHIO:** Days suitable for fieldwork 6.4. Topsoil 4% very short, 18% short, 75% adequate, 3% surplus. Corn silked 84%, 55% 1997, 65% avg. Soybeans blooming 2 days ahead of 1997, 7 days avg. Soybeans setting pods 43%, 35% 1997, 32% avg. Oats 97% ripe, 88% 1997, 95% avg.; 60% harvested, 46% 1997, 49% avg. Alfalfa hay 91% 2nd cutting, 83% 1997, 82% avg. Alfalfa hay 21% 3rd cutting, 6% 1997, 9% avg. Other hay 75% 2nd cutting, 55% 1997, 55% avg. Other hay 10% 3rd cutting, 4% 1997, 1% avg. Summer apples 60% harvested, 8% 1997, 21% avg. Peaches 50% harvested. Hay 5% very poor, 6% poor, 20% fair, 53% good, 16% excellent. Activities for the past week include combining oats; baling hay, straw; hauling manure; plowing, chopping wheat fields; installing tile; mowing lanes, ditch banks; submitting production evidence to FSA for L.P.'s; spreading lime; attending field days; installing soil waterways, filter strips; seeding alfalfa; chopping silage; applying fertilizer, herbicides; scouting fields; repairing equipment; preparing for fall harvest; gearing up for county, State fairs; moving grain; harvesting, marketing vegetables, fruits; aerating grain; cleaning up farmsteads; clipping pastures, roadsides; cultivating, topping

tobacco. Weeds continue to be a problem this year, with reporters repeatedly noting heavy weeds in soybean, corn fields. The following weeds were reported: broad leaves; giant ragweed; common grasses; Canadian thistles; foxtail; sourdock; ironweed; Johnson grass; lambsquarter; velvet leaf; yellow nuts edge; pigweed. Reported insects were potato leafhopper; leaf beetles; Japanese beetles; aphids; mosquitoes; spittle bugs; weevils; grasshoppers. Reported diseases were septoria brown spot, phytophthora in soybeans; rust on grass; black shank, target spot, blue mold in tobacco; wet weather related fungus; early blight on tomatoes. Comments from fruit, vegetable producers continue to be mostly good. A Meigs County reporter mentioned vegetable growers welcomed the rain on Wednesday, Thursday because producers had to irrigate earlier in the week. Reports of crop conditions are mostly good; however, some parts of the State are feeling drought stress. Producers in the northern part of the State are being affected most by the lack of rain. Reporters in the counties of Williams, Paulding, Champaign, Huron, Portage, Columbiana, Ashtabula mentioned deteriorating pasture, grass conditions from lack of rain. Conversely, a Darke County reporter mentioned pasture conditions were better than they had been in years. Higher temperatures early in the week resulted in heat stress in livestock. As the week progressed, however, cooler temperatures alleviated some heat stress. There continues to be a high population of face flies, mosquitoes, horse flies this year. Most reporters indicate livestock to be in good condition.

**OKLAHOMA:** Days suitable for fieldwork 5.6. Topsoil 32% very short, 35% short, 33% adequate. Subsoil 22% very short, 50% short, 28% adequate. Rain in the north improves soil moisture, most of State hot, dry. Wheat plowed 82%, 88% 1997, 88% avg.; seedbed prepared 9%, 20% 1997, 11% avg. Oats plowed 82%, 73% 1997, 92% avg.; seedbed prepared 12%, 6% 1997, 3% avg. Corn 3% very poor, 5% poor, 38% fair, 52% good, 2% excellent; milk-to-soft 78%, 80% 1997, 67% avg.; mature 10%, 1% 1997, 7% avg. Soybeans 8% very poor, 20% poor, 50% fair, 21% good, 1% excellent; flowering 69%, 82% 1997, 65% avg.; setting pods 35%, 48% 1997, 36% avg. Peanuts setting pods 59%, 73% 1997, 62% avg. Alfalfa hay 8% very poor, 20% poor, 34% fair, 33% good, 5% excellent; 3rd cutting 66%, 63% 1997, 70% avg.; 4th cutting 8%, 7% 1997, 8% avg. Other hay 1st cutting 89%, 93% 1997, 96% avg.; 2nd cutting 4%, 15% 1997, 54% avg. Livestock 4% very poor, 7% poor, 29% fair, 59% good, 1% excellent. Feeder cattle prices mixed from the preceding week.

**OREGON:** Days suitable for fieldwork 6.8. Topsoil 8% very short, 34% short, 54% adequate, 4% surplus. Subsoil 3% very short, 33% short, 50% adequate, 14% surplus. Barley harvested 29%, 28% 1997, 28% average. Winter wheat harvested 33%, 42% 1997, 40% average. Spring wheat 9% harvested. Range, pasture feed 3% poor, 12% fair, 61% good, 24% excellent. Activities: Westside small grain & grass seed farmers going strong. Hot days and warm nights have been good for corn fields. Mint harvest began in Willamette Valley. The 3rd cutting of alfalfa and red clover setting seed. Eastside small grain harvest well underway, with some areas reporting winter wheat and barley harvest 60-70% complete. Malheur County grain harvest was delayed due to thunderstorms; however, first spearmint harvest was completed. Haying continued, with some 2nd cutting of Alfalfa. Klamath Basin reported sugar beets 99% rows closed. Nursery and greenhouses doing maintenance work and irrigation. Iris bulbs being harvested in Willamette Valley. Christmas trees have hardened off and some shearing has started. Willamette Valley growers continued green bean and sweet corn harvest. Hot weather did some damage to bean blossoms but was not critical. Sweet corn showing up at local stands. Tomatoes ripening and other salad vegetables are plentiful. Onions doing well; some being sprayed for disease. Eastside, Norkotah potatoes beginning to mature despite wind and hail damages from thunderstorms. Malheur County expecting potato harvest to start. So far no late blight has been detected. In northeast, some harvesting of fresh onions and sweet corn in progress. In the Willamette Valley, marionberry, blueberry, and blackberry harvests continued and the raspberry harvest near the end. Early red havens and transparent apples being harvested. The hot weather has increased the incidences of sunburn on apples. In Rogue River Valley, third cover sprays being applied and spider mites and pear psylla a problem. Berries still being picked in some areas. On the south coast, blueberry harvest continued and cranberries sizing. Fruit set generally good. In Hood River Valley, Bartlett pear harvest is expected to begin in a couple of weeks. The fruit generally appears small at this time. Livestock condition mostly good to excellent. Eastside continues to report forage as better than normal. At higher elevations, ranges are starting to dry up; low-elevation range and pasture mostly matured, except where irrigated. Westside pastures also drying out under warm, dry weather; to mature for best quality. Most Rogue River Valley cattle and sheep shipped to feedlots.

**PENNSYLVANIA:** Days suitable for fieldwork 6.0. Soil moisture 15% very short, 51% short, 32% adequate, 2% surplus. Good week for fieldwork. Soybean 3% poor, 19% fair, 60% good, 18% excellent. Wheat harvested 99% complete, 88% 1997, 85% avg. Oats harvested 49% complete, 43% 1997, 36% avg. Alfalfa 2nd cutting 82% complete, 74% 1997, 71% avg. Alfalfa 3rd cutting 29% complete, 14% 1997, 10% avg. Timothy clover 2nd cutting 39% complete, 40% 1997, 35% avg. Quality of hay made 2% very poor, 5% poor, 27% fair, 50% good, 16% excellent. Apple harvest 9% complete, 6% 1997, 3% avg. Peach harvest 42% complete, 11% 1997, 10% avg. Fall plowing 5% complete, 2% 1997, 1% avg. Activities: spraying field crops, fruit trees; cutting hay and haylage; harvesting winter wheat, oats; picking apricots, nectarines, peaches, early variety apples; machinery maintenance; fixing fences; hauling manure; caring for livestock.

**SOUTH CAROLINA:** Days suitable for fieldwork 6.0. Soil moisture 22% very short, 36% short, 42% adequate. Apples 27% poor, 34% fair, 38% good, 1% excellent. Cantaloupes 95% harvested, 97% 1997, 88% avg. Corn 93% doughed, 90% 1997, 93% avg.; 72% mature, 51% 1997, 56% avg.; 12% harvested, 8% 1997, 8% avg.; 29% very poor, 43% poor, 20% fair, 8% good. Peaches 80% harvested, 73% 1997, 75% avg.; 3% very poor, 7% poor, 21% fair, 67% good, 2% excellent. Snapbeans 99% harvested, 94% 1997, 85% avg. Sorghum 75% headed, 77% 1997; 50% turned color, 66% 1997; 5% matured, 4% 1997, 1% avg.; 24% very poor, 24% poor 45% fair, 7% good. Sweet potatoes 10% poor, 68% fair, 22% good. Tobacco 99% topped, 100% 1997, 98% avg.; 41% harvested, 51% 1997, 42% avg.; stalks destroyed 5%, 14% 1997, 4% avg.; 10% very poor, 25% poor, 38% fair, 26% good, 1% excellent. Watermelons 99% harvested, 94% 1997, 89% avg.

**SOUTH DAKOTA:** Days suitable for fieldwork 5.6. Topsoil 4% very short, 27% short, 64% adequate, 5% surplus. Subsoil 1% very short, 16% short, 75% adequate, 8% surplus. Winter wheat 1% poor, 18% fair, 47% good, 34% excellent. Winter rye 6% fair, 65% good, 29% excellent; 90% harvested, 32% 1997, 37% avg. Spring wheat 84% ripe, 44% 1997, 40% avg. Oats 86% ripe, 51% 1997, 57% avg.; 61% harvested, 19% 1997, 27% avg. Barley 85% ripe, 46% 1997, 48% avg. Flaxseed 17% fair, 73% good, 10% excellent; 90% blooming, 97% 1997, 86% avg.; 89% ripe, 9% 1997, 6% avg.; 54% harvested, 0% 1997, 0% avg. Sunflower 5% poor, 10% fair, 63% good, 22% excellent; 45% blooming, 42% 1997, 27% avg.; 8% flower dry, 2% 1997, 0% avg. Alfalfa 1% very poor, 7% poor, 26% fair, 55% good, 11% excellent; 70% cut twice, 60% 1997, 56% avg. Other hay 79% harvested, 80% 1997, 68% avg. Corn 93% tassled, 84% 1997, 65% avg.; 4% dent, 0% 1997, 0% avg. Livestock 6% fair, 67% good, 27% excellent. Stock water supplies 1% very short, 4% short, 84% adequate, 11% surplus.

**TENNESSEE:** Days suitable for fieldwork 2.5. Topsoil 5% short, 57% adequate, 38% surplus. Subsoil 7% short, 66% adequate, 27% surplus. Corn 65% dough, 57% 1997, 64% avg.; 32% dent, 20% 1997, 25% avg.; 2% very poor, 8% poor, 21% fair, 51% good, 18% excellent. Tobacco 40% topped, 39% 1997, 43% avg.; 5% very poor, 12% poor, 31% fair, 43% good, 9% excellent. Alfalfa hay 97% harvested, 96% 1997, 99% avg. Pasture feed 4% poor, 22% fair, 55% good, 19% excellent. Precipitation received during last week slowed field activities, such as pesticide spraying for corn producers, hay cutting, and tobacco topping. Heavy rainfall last week caused localized flooding, especially in the northwest portion of the State. Alfalfa producers were able to cut an additional 4% of the State's acreage, totaling 97% by week's end. Tobacco producers in the central, east were hampered by flooding, lodging, soil erosion, increased blue mold and black shank pressure. Growers were able to top an additional 15% of the crop between showers by week's end.

**TEXAS:** Rainfall for week limited to High Plains, where some areas received over 1". Other areas State, however, remained very high temperatures, dry. Dry conditions continued stress crops, cause additional abandonment. Grasshoppers caused additional problems to pastures, crops, fruit trees. Harvest operations moved ahead central, southern areas; however, extreme heat caused problems for field workers. Sparce ranges, pastures continued to cause additional sell off of cattle, calves. Supplemental feeding operations continued daily basis many areas. **Crops:** Corn: Rainfall in parts of the High Plains alleviated some irrigation. Insect activity increased, with spraying underway. Harvest continued Blacklands, Central, however, high-aflatoxin levels slowed progress many fields, made marketing difficult. Most harvest completed Coastal Bend. Harvest moved into final stages in many fields along Upper Coast; 62% dented, 46% 1997, 57% avg.; 53% mature, 28% 1997, 41% avg.; 37% harvested, 6% 1997, 18% avg. Cotton: Boll set continued in the Plains;

however, pace slowed due to extreme temperatures. Many dryland fields been abandoned. Bolls opening in the Blacklands, with some early harvest underway. Harvest continued to be in full swing in the Coastal Bend. Defoliation, harvest increased along Upper Coast. Abandonment of some fields continued; 21% open bolls, 7% 1997, 11% avg. Grain sorghum: Fields continued head out Plains, with some early fields beginning turn color. Some lodging reported due to extremely dry conditions in north-central areas. Harvest continued in the Blacklands, Central. Yields continued fair to poor. Most harvest completed in the Coastal Bend, along the Upper Coast; 48% mature, 37% 1997, 50% avg. 44% harvested, 21% 1997, 37% avg. Peanuts: Irrigation continued steady in the Plains, where fields continued to peg, making good progress. Irrigation also remained constant in the South Central. Dryland fields across State in poor condition. Rice: Harvest increased along Upper Coast, with fair to good yields reported. Soybeans: Irrigated fields in the High Plains continued to look good. Some dryland field area received rain, improving condition slightly. Harvest continued Blacklands with poor yields, additional abandonment reported. Additional abandonment also reported along Upper Coast. Other crops: Sunflowers 99% planted, 100% 1997, 100% avg. Oats 99% harvested, 100% 1997, 98% avg.

**Commercial Vegetables:** Rio Grande Valley, land preparation continued slow pace. San Antonio-Winter Garden, land preparations continued. East, hot weather continued to limit production. Sweet potatoes showing signs of drought. High Plains, harvest continued cucumbers, onions, potatoes. Trans Pecos, cantaloup harvest continued; however, hot weather has adversely effected quality in some fields. Chili peppers continued to make good progress. Peaches: Harvest Hill Country slowed some producers finished for season. Pecans: The crop in most areas continued to suffer under hot, dry conditions. Irrigation where available continued at a steady pace.

**Range and Livestock:** Dry conditions continued plague livestock producers. Numbers at local auctions remained high as more, more producers selling cattle, calves. Stock tanks gone dry many areas. Hay prospects remained poor.

**UTAH:** Days suitable for fieldwork 6. Topsoil 1% very short, 6% short, 92% adequate, 1% surplus. Subsoil 6% short, 93% adequate, 1% surplus. Pasture feed, range 1% very poor, 6% poor, 34% fair, 53% good, 6% excellent. Irrigation water supplies 1% very short, 16% short, 83% adequate. Stock water 2% very short, 17% short, 81% adequate. Spring wheat harvested 12%; headed 91%. Winter wheat harvested 31%. Oats headed 86%; harvested for hay or silage 72%; harvested for grain 8%. Corn height 58 inches, compared with 66 inches in 1997 and 60 inches of the avg. Corn silked 13%. Alfalfa hay 2nd cutting 61%, 62% 1997, 68% avg. Other hay cut 72%, 81% 1997, 73% avg. Barley headed 89%; harvested for grain 19%. Tart cherries picked 63%. Good cattle conditions reported statewide.

**VIRGINIA:** Days suitable for fieldwork 6.1. Topsoil 30% very short, 48% short, 22% adequate. Subsoil moisture 10% very short, 55% short, 35% adequate. Corn 68% silked, 78% 1997, 77% avg.; 31% dough, 28% 1997, 36% avg.; 9% dent, 9% 1997, 14% avg.; 2% very poor, 28% poor, 37% fair, 30% good, 3% excellent. Cotton squaring 100%; 99% 1997; 95% setting bolls, 88% 1997, 91% avg.; 1% poor, 10% fair, 66% good, 23% excellent. Soybeans 99% emerged; 43% blooming, 34% 1997, 41% avg.; 18% setting pods, 14% 1997, 18% avg.; 3% very poor, 22% poor, 33% fair, 35% good, 7% excellent. Flue-cured tobacco 6% harvested, 4% 1997, 12% avg.; 10% poor, 35% fair, 40% good, 15% excellent. Dark fire cured tobacco 7% poor, 48% fair, 34% good, 11% excellent. Burley tobacco 10% very poor, 20% poor, 55% fair, 10% good, 5% excellent. Sun tobacco 39% poor, 31% fair, 30% good. Summer potatoes 85% harvested, 95% 1997, 81% avg.; 5% poor, 25% fair, 55% good, 15% excellent. Summer apples 70% harvested; 4% very poor, 3% poor, 38% fair, 49% good, 6% excellent. Peaches 48% harvested, 29% 1997, 37% avg.; 4% poor, 36% fair, 56% good, 4% excellent. Pasture feed 14% very poor, 38% poor, 29% fair, 19% good. Alfalfa 7% very poor, 22% poor, 34% fair, 36% good, 1% excellent. Other hay 11% very poor, 30% poor, 35% fair, 24% good. Overall, dry conditions persist throughout the Commonwealth despite the isolated thunderstorms received last week. Some crops in drier localities are in critical condition, although cooler temperatures by the end of the week offered some relief. Poor pasture conditions have forced some livestock producers to feed hay. However, hot, dry conditions were needed in some southwestern localities after receiving as much as 15 inches of rainfall during the month of June. Producers are expecting some crops to rebound nicely. Some southeastern localities received ample rain last week providing good conditions for corn, soybeans. Blue mold remains under control as weather conditions were ideal in reducing its spread. Activities for the week included fruit, vegetable harvesting, preparing land for fall vegetables, second cutting of hay, topping tobacco, harvesting of flue tobacco, spraying livestock for flies, applying

growth regulator to cotton along with other herbicide and insecticide application to crops.

**WASHINGTON:** Days suitable for fieldwork 6.5. Topsoil moisture 13% very short, 53% short; 34% adequate. Subsoil moisture 2% very short, 43% short, 55% adequate. Winter wheat 31% harvested, 24% 1997, 32% avg. Spring wheat dryland 2% poor, 36% fair, 52% good, 10% excellent; irrigated 99% good, 1% excellent. Barley dryland 2% poor, 43% fair, 50% good, 5% excellent; irrigated 95% good, 5% excellent. Potatoes 6% fair, 91% good, 3% excellent. Wheat harvest continued, and thunderstorms late last week slowed harvest activities. Reported yields were average to slightly above average in most areas. Hay, other roughage supplies, 10% short, 77% adequate, 13% surplus. Third cutting alfalfa continued. Range, pasture feed 5% very poor, 25% poor, 35% fair, 30% good, 5% excellent. Hot weather caused sunburn on a significant amount of fruit in some areas. Peaches were being harvested. Bartlett pear and early-variety apple harvests began in some areas and were expected to begin within 10 days in other areas. Raspberry harvest slowed down, blackberry harvest progressed well. Harvesting operations continued for potatoes, sweet corn, carrots. Mint harvest continued.

**WEST VIRGINIA:** Days suitable for fieldwork 5.6. Topsoil 21% short, 73% adequate, 6% surplus. Wheat harvested 94%, 100% 1997, 86% avg. Apple 15% poor, 77% fair, 4% good, 4% excellent. Peach 16% poor, 66% fair, 18% good. Hay 5% poor, 33% fair, 57% good, 5% excellent; 1st cut 97%, 99% 1997, 99% avg.; 2nd cut 38%, 38% 1997, 39% avg. Corn 3% poor, 42% fair, 51% good, 4% excellent; silked 58%, 63% 1997, 62% avg.; doughing 14%, 6% 1997, 16% avg. Oats 11% poor, 67% fair, 20% good, 2% excellent; harvested 53%, 38% 1997, 60% avg. Soybean 1% poor, 48% fair, 51% good; 44% bloomed, 79% 1997, 70% avg.; 19% podding, 30% 1997. Tobacco 1% poor, 32% fair, 66% good, 1% excellent; topped 9%, 31% 1997, 29% avg. Cattle 19% fair, 73% good, 8% excellent. Sheep 15% fair, 78% good, 7% excellent. Producers made good harvest progress, crop conditions declined as a result of dry conditions in some areas of the State.

**WISCONSIN:** Days suitable for fieldwork 6.8. Soil moisture 23% very short, 49% short, 28% adequate. Soybeans bloomed 85%, 66% 1997. Soybeans setting pods 53%, 23% 1997; 1% very poor, 6% poor, 18% fair, 43% good, 32% excellent. Second-crop hay harvested 90%, 70% 1997, 59% avg. Third-crop hay harvested 20%, 0% 1997, 0% avg. Just about every farmer would have liked to see more rain last week, with an average rainfall statewide, of just one-tenth of an inch. The northern districts remain particularly dry, Chippewa County reporter noted that ears of corn were not filling, soybean plants were looking wilted. Areas with lighter soils have been hit hardest by the recent dry spell. Despite dry conditions, corn showed quick progress this year, with an average of 90% silked statewide, compared to 68% at this time last year. According to a few reporters, fewer insects have been seen pestering the corn crop. A lack of rain has made the completion of second-crop hay harvest easier, and third-crop hay harvest was 3 weeks ahead of average. Winter wheat harvested 99%, 26% 1997, 35% avg. Pasture feed 6% very poor, 21% poor, 42% fair, 24% good, 7% excellent.

**WYOMING:** Days suitable for fieldwork 4.6. Topsoil 1% very short, 29% short, 69% adequate, 1% surplus. Subsoil 3% very short, 43% short, 54% adequate. Winter wheat harvested 73%, 57% 1997, 52% avg. Barley turning color 88%, 91% 1997, 82% avg.; mature 42%, 40% 1997, 36% avg.; harvested 9%, 12% 1997, 10% avg. Oats turning color 82%, 76% 1997, 63% avg.; mature 42%, 34% 1997, 25% avg.; harvested 13%, 14% 1997, 8% avg. Spring wheat mature 50%, 30% 1997, 25% avg.; harvested 22%, 6% 1997, 6% avg. Corn silked 36%, 44% 1997, 37% avg. Dry beans setting pod 53%, 42% 1997, 44% avg. Alfalfa second cutting 18%, 14% 1997, 18% avg. Other hay cut 67%, 66% 1997, 66% avg. Barley 19% fair, 68% good, 13% excellent. Oats 35% fair, 61% good, 4% excellent. Spring wheat 34% fair, 60% good, 6% excellent. Sugar beet 2% poor, 18% fair, 80% good. Corn 1% poor, 18% fair, 60% good, 21% excellent. Dry bean 1% poor, 9% fair, 78% good, 12% excellent. Range, pasture feed 1% very poor, 12% poor, 23% fair, 62% good, 2% excellent. Stock water 1% very short, 7% short, 90% adequate, 2% surplus. Calf 3% fair, 90% good, 7% excellent. Cattle 4% fair, 89% good, 7% excellent. Lamb 2% fair, 91% good, 7% excellent. Sheep 2% fair, 91% good, 7% excellent. Cool, wet weather moved in bringing widespread precipitation. Winter wheat harvest ahead of average.

**International Weather and Crop Summary**

July 26 - August 1, 1998

**HIGHLIGHTS**

**FSU-WESTERN:** Unrelenting heat negatively affected summer crops in Russia and threatened crops in southern and eastern Ukraine.

**FSU-NEW LANDS:** Continued unfavorably hot, dry weather in Kazakstan and central growing areas in Russia reduced prospects for spring grains in the filling stage.

**EUROPE:** Showers interrupted winter grain and oilseed harvesting in the north, while hot, dry weather stressed summer crops in the southeast.

**AUSTRALIA:** Rain replenished topsoils in the southeastern winter grain belt.

**CANADA:** Late-week showers in the southwestern Prairies brought some relief from stressful heat.

**SOUTH ASIA:** Showers returned to important oilseed and cotton areas of central India.

**SOUTHEAST ASIA:** Showers brought relief to grains and sugarcane across the Philippines, while unseasonably light showers limited moisture supplies in northern Vietnam and portions of Thailand.

**EASTERN ASIA:** Heavy showers caused additional flooding along the Yangtze Valley, but more rain is needed in the North China Plain.

**SOUTH AMERICA:** Mostly dry weather favored wheat planting across central Argentina.

**MEXICO:** Widespread showers benefited vegetative corn across the Southern Plateau Corn Belt.

**July 1998**

**MONTHLY DATA FROM SELECTED FOREIGN CITIES  
CLIMATE PREDICTION CENTER-NCEP-NWS-NOAA  
\*\*\* DATA NOT AVAILABLE**

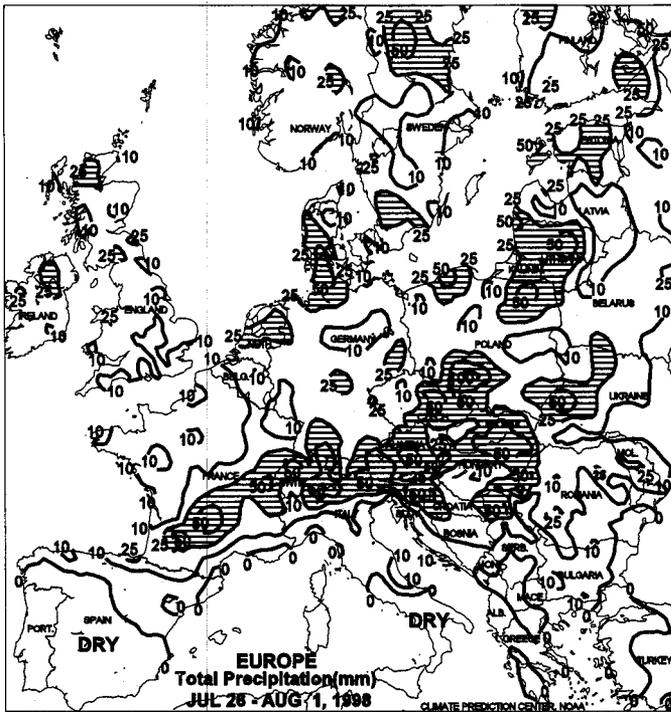
| COUNTRY  | CITY          | TEMPERATURE (C) |         |        |        |     | PRECIPITATION (MM) |       |             |
|----------|---------------|-----------------|---------|--------|--------|-----|--------------------|-------|-------------|
|          |               | AVG MAX         | AVG MIN | HI MAX | LO MIN | AVG | DPART F/NRM        | TOTAL | DPART F/NRM |
| NORWAY   | OSLO          | 19              | 11      | 23     | 8      | 15  | -0.4               | 95    | 17          |
| SWEDEN   | STOCKHOLM     | 20              | 13      | 26     | 10     | 16  | -0.6               | 0     | -71         |
| FINLAND  | HELSINKI      | 21              | 12      | 24     | 7      | 16  | -0.3               | 125   | 52          |
| UKINGDO  | GLASGOW       | 18              | 11      | 22     | 7      | 14  | -1.4               | 122   | 39          |
|          | EDINBURGH     | 18              | 11      | 22     | 6      | 14  | -0.2               | 102   | 44          |
|          | LONDON        | **              | **      | **     | 16     | **  | **                 | **    | **          |
| IRELAND  | DUBLIN        | 18              | 11      | 21     | 6      | 15  | -0.7               | 55    | 5           |
| ICELAND  | REYKJAVIK     | 14              | 9       | 18     | 6      | 11  | 0.7                | 61    | 9           |
| DENMARK  | COPENHAGEN    | 18              | 12      | 26     | 8      | 15  | -2.9               | 68    | -4          |
| LUXEMBO  | LUXEMBOURG    | 20              | 12      | 30     | 8      | 16  | -1.0               | 57    | -10         |
| SWITZERL | ZURICH        | 23              | 15      | 33     | 10     | 19  | 1.2                | 97    | -23         |
|          | GENEVA        | 27              | 15      | 34     | 9      | 21  | 2.1                | 71    | 3           |
| FRANCE   | PARIS/ORLY    | 23              | 14      | 34     | 9      | 18  | **                 | 25    | **          |
|          | STRASBOURG    | 24              | 14      | 34     | 9      | 19  | 0.2                | 29    | -28         |
|          | BOURGEX       | 25              | 14      | 37     | 8      | 19  | 0.1                | 26    | -25         |
|          | BORDEAUX      | 26              | 15      | 38     | 9      | 20  | 0.2                | 54    | 8           |
|          | TOULOUSE      | 27              | 17      | 33     | 12     | 22  | 0.7                | 30    | -12         |
|          | MARSEILLE     | 31              | 20      | 36     | 15     | 25  | 1.8                | 1     | -13         |
| SPAIN    | VALLADOLID    | 31              | 14      | 38     | 9      | 23  | 1.1                | 6     | -11         |
|          | MADRID        | 34              | 18      | 38     | 12     | 26  | 1.6                | 2     | -5          |
|          | SEVILLE       | 36              | 21      | 41     | 17     | 29  | 0.5                | 2     | 1           |
| PORTUGA  | LISBON        | 28              | 17      | 37     | 15     | 23  | 0.6                | 0     | -3          |
| GERMANY  | HAMBURG       | 20              | 12      | 30     | 8      | 16  | -0.7               | 108   | 26          |
|          | BERLIN        | 22              | 14      | 36     | 9      | 18  | -0.9               | 62    | 9           |
|          | DUSSELDORF    | 21              | 13      | 34     | 10     | 17  | -1.2               | 75    | 0           |
|          | LEIPZIG       | 23              | 14      | 35     | 10     | 18  | 0.1                | 77    | 14          |
|          | DRESDEN       | 22              | 13      | 35     | 9      | 18  | -0.4               | 95    | -14         |
|          | STUTT GART    | 23              | 13      | 35     | 9      | 18  | 0.3                | 55    | -24         |
|          | NURNBERG      | 22              | 13      | 35     | 7      | 18  | -0.5               | 39    | -30         |
| AUSTRIA  | VIENNA        | 25              | 16      | 33     | 10     | 21  | 0.3                | 77    | 8           |
|          | INNSBRUCK     | 24              | 14      | 34     | 8      | 19  | 1.0                | 134   | 6           |
| CZECHRE  | PRAGUE        | 22              | 13      | 35     | 8      | 17  | -0.2               | 55    | -11         |
| POLAND   | WARSAW        | 22              | 13      | 34     | 8      | 18  | -0.2               | 78    | 11          |
|          | LODZ          | 21              | 13      | 34     | 8      | 17  | -0.8               | 101   | 10          |
|          | KATOWICE      | 23              | 14      | 33     | 9      | 18  | 0.4                | 94    | 0           |
|          | PRZEMYSL      | 23              | 14      | 32     | 8      | 19  | 0.9                | 113   | 13          |
| HUNGARY  | BUDAPEST      | 27              | 16      | 35     | 11     | 22  | 0.8                | 72    | 20          |
| YUGOSLA  | BELGRADE      | 29              | 18      | 38     | 10     | 24  | 2.2                | 34    | -35         |
| ROMANIA  | BUCHAREST     | 31              | 15      | 36     | 8      | 23  | 0.4                | 31    | -34         |
| BULGARIA | SOFIA         | 28              | 16      | 36     | 10     | 22  | 2.0                | 86    | 27          |
| ITALY    | MILAN         | 31              | 20      | 36     | 14     | 26  | 2.4                | 25    | -38         |
|          | VERONA        | 30              | 21      | 35     | 14     | 25  | 1.7                | 92    | 32          |
|          | VENICE        | 29              | 20      | 35     | 15     | 24  | 1.1                | 65    | 1           |
|          | GENOA         | 27              | 22      | 31     | 19     | 24  | -0.1               | 19    | -9          |
|          | ROME          | 29              | 19      | 31     | 16     | 24  | 0.3                | 0     | -13         |
|          | NAPLES        | 31              | 21      | 36     | 16     | 26  | 1.6                | 1     | -23         |
| GREECE   | THESSALONIKA  | 33              | 21      | 40     | 16     | 27  | 0.9                | 1     | -23         |
|          | LARISSA       | 35              | 19      | 44     | 12     | 27  | 0.0                | 0     | -21         |
|          | ATHENS        | 34              | 24      | 39     | 19     | 29  | 1.4                | 0     | -2          |
| TURKEY   | ISTANBUL      | 29              | 21      | 34     | 13     | 25  | 1.8                | 14    | -7          |
|          | ANKARA        | 31              | 13      | 37     | 6      | 22  | -1.7               | 6     | -14         |
| CYPRUS   | LARNACA       | 33              | 22      | 39     | 20     | 28  | 0.5                | 0     | -1          |
| ESTONIA  | TALLINN       | 19              | 12      | 26     | 9      | 16  | -0.5               | 64    | -13         |
| LITHUANI | KAUNAS        | 21              | 12      | 32     | 7      | 16  | -0.8               | 117   | 45          |
| BELARUS  | MINSK         | 22              | 14      | 32     | 10     | 18  | 0.3                | 131   | 29          |
| RUSSIA   | KAZAN         | 26              | 16      | 35     | 11     | 21  | 1.6                | 60    | -8          |
|          | MOSCOW        | 23              | 15      | 29     | 10     | 19  | 0.8                | 150   | 59          |
|          | YEKATERINBURG | 27              | 17      | 32     | 11     | 22  | 3.2                | 111   | 32          |
|          | OMSK          | 30              | 17      | 36     | 9      | 23  | 3.4                | 39    | -22         |
|          | NOVOSIBIRSK   | 26              | 15      | 31     | 11     | 21  | 2.1                | 27    | -32         |
|          | BARNAUL       | 28              | 16      | 34     | 11     | 22  | 2.0                | 51    | -11         |
|          | KHABAROVSK    | 28              | 16      | 38     | 11     | 22  | 0.9                | 12    | -120        |
|          | VLADIVOSTOK   | 20              | 15      | 24     | 14     | 18  | 0.3                | 80    | -63         |
|          | SARATOV       | 30              | 19      | 37     | 14     | 24  | 4.0                | 24    | -28         |
|          | VOLGOGRAD     | 31              | 18      | 36     | 13     | 25  | 0.8                | 21    | -6          |
|          | ASTRAKHAN     | 33              | 21      | 38     | 16     | 27  | 1.7                | 16    | -7          |
|          | KRASNODAR     | 32              | 18      | 38     | 15     | 25  | 1.5                | 28    | -18         |
|          | ORENBURG      | 32              | 19      | 38     | 13     | 25  | 3.2                | 22    | -16         |
| KAZAKHS  | TSELINOGRAD   | 30              | 18      | 38     | 11     | 24  | 2.6                | 71    | 21          |
|          | KARAGANDA     | 29              | 17      | 36     | 10     | 23  | 2.3                | 24    | -17         |

Based on Preliminary Reports

July 1998

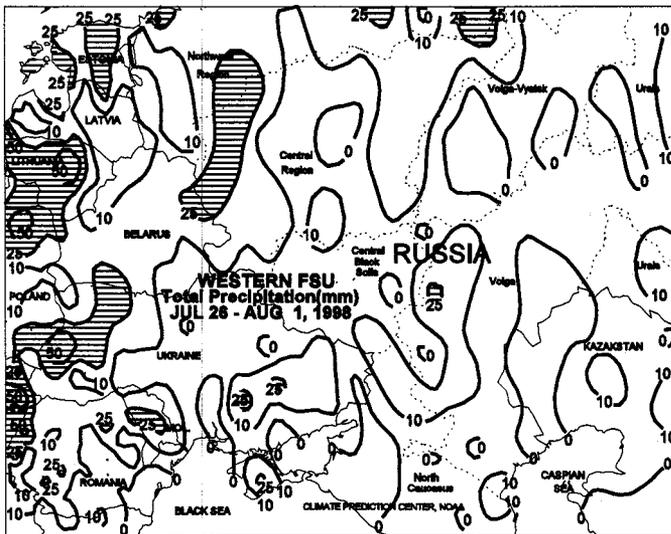
| COUNTRY CITY           | TEMPERATURE (C) |         |        |        |     |             | PRECIPITATION (MM) |             |                        | COUNTRY CITY | TEMPERATURE (C) |        |        |     |             |       | PRECIPITATION (MM) |  |  |
|------------------------|-----------------|---------|--------|--------|-----|-------------|--------------------|-------------|------------------------|--------------|-----------------|--------|--------|-----|-------------|-------|--------------------|--|--|
|                        | AVG MAX         | AVG MIN | HI MAX | LO MIN | AVG | DPART F/NRM | TOTAL              | DPART F/NRM | AVG MAX                |              | AVG MIN         | HI MAX | LO MIN | AVG | DPART F/NRM | TOTAL | DPART F/NRM        |  |  |
| GEORGIA TBILISI        | 32              | 20      | 36     | 13     | 26  | 1.4         | 20                 | -26         | S AFRICA PRETORIA      | 22           | 6               | 25     | -1     | 14  | 1.9         | 0     | -3                 |  |  |
| UZBEKIST TASHKENT      | 35              | 20      | 40     | 15     | 28  | 0.2         | 13                 | 9           | JOHANNESBURG           | 17           | 4               | 22     | -4     | 11  | 0.5         | 0     | -4                 |  |  |
| TURKMENI ASHKHABAD     | 38              | 25      | 41     | 19     | 31  | 0.1         | 0                  | -3          | BETHAL                 | 19           | 1               | 23     | -7     | 10  | 1.7         | 0     | -8                 |  |  |
| SYRIA DAMASCUS         | 38              | 19      | 45     | 15     | 28  | 1.7         | 0                  | 0           | DURBAN                 | 23           | 12              | 28     | 6      | 18  | 1.2         | 23    | -16                |  |  |
| ISRAEL JERUSALEM       | 31              | 18      | 35     | 15     | 24  | 1.5         | 0                  | 0           | CAPE TOWN              | 17           | 7               | 23     | 1      | 12  | 0.2         | 99    | 17                 |  |  |
| PAKISTAN KARACHI       | 33              | 29      | 38     | 27     | 31  | 0.7         | 22                 | -67         | CANADA TORONTO         | 27           | 15              | 33     | 11     | 21  | 0.8         | 46    | -31                |  |  |
| INDIA AMRITSAR         | 34              | 26      | 39     | 23     | 30  | -0.2        | 90                 | -110        | MONTREAL               | 26           | 16              | 32     | 12     | 21  | 0.2         | 87    | 2                  |  |  |
| NEW DELHI              | 35              | 27      | 39     | 25     | 31  | 0.2         | 91                 | -133        | WINNIPEG               | 26           | 13              | 32     | 5      | 19  | -0.5        | 41    | -32                |  |  |
| AHMEDABAD              | 33              | 26      | 38     | 24     | 30  | 0.1         | 397                | 141         | REGINA                 | 26           | 12              | 33     | 5      | 19  | 0.1         | 40    | -19                |  |  |
| INDORE                 | 30              | 23      | 35     | 23     | 27  | 0.4         | 229                | -47         | SASKATOON              | 26           | 12              | 34     | 5      | 19  | 0.0         | 30    | -28                |  |  |
| CALCUTTA               | 34              | 26      | 37     | 25     | 30  | 1.1         | 297                | -25         | LETHBRIDGE             | 27           | 12              | 33     | 7      | 20  | 1.5         | 43    | -3                 |  |  |
| VERAVAL                | 32              | 26      | 33     | 24     | 30  | 1.3         | 385                | 115         | CALGARY                | 24           | 11              | 29     | 6      | 18  | 1.3         | 117   | 48                 |  |  |
| BOMBAY                 | 31              | 26      | 33     | 24     | 29  | 1.3         | 406                | -539        | EDMONTON               | 25           | 14              | 30     | 7      | 19  | 1.8         | 90    | -5                 |  |  |
| POONA                  | 29              | 23      | 32     | 21     | 26  | 0.5         | 233                | 45          | VANCOUVER              | 23           | 15              | 31     | 11     | 19  | 2.0         | 35    | -2                 |  |  |
| BEGAMPET               | 32              | 24      | 36     | 21     | 28  | 1.3         | 222                | 53          | MEXICO GUADALAJARA     | 22           | 18              | 27     | 15     | 20  | -1.2        | 71    | -186               |  |  |
| VISHAKHAPATNAM         | 31              | 26      | 34     | 23     | 28  | ***         | 157                | **          | MEXICO CITY            | 23           | 15              | 29     | 13     | 19  | 2.4         | 103   | -23                |  |  |
| MADRAS                 | 36              | 27      | 39     | 25     | 31  | 0.7         | 106                | -20         | ACAPULCO               | 32           | 25              | 35     | 20     | 29  | -0.1        | 458   | 287                |  |  |
| MANGALORE              | 29              | 23      | 32     | 22     | 26  | 0.1         | 947                | -112        | BERMUDA ST. GEORGES    | 30           | 25              | 32     | 22     | 28  | 0.6         | 168   | 60                 |  |  |
| HONGKO KINGS PEAK      | 31              | 27      | 33     | 24     | 29  | ***         | 285                | **          | BAHAMAS NASSAU         | 33           | 26              | 35     | 23     | 30  | 1.6         | 100   | -40                |  |  |
| N KOREA PYONGYANG      | 25              | 19      | 30     | 15     | 22  | -1.6        | 274                | -123        | JAMAICA KINGSTON       | 33           | 27              | 36     | 23     | 30  | 1.2         | 59    | 20                 |  |  |
| S KOREA SEOUL          | 29              | 22      | 32     | 20     | 25  | 0.8         | 321                | -37         | P RICO SAN JUAN        | 31           | 25              | 33     | 23     | 28  | 0.1         | 183   | 75                 |  |  |
| JAPAN SAPORO           | 24              | 17      | 31     | 13     | 21  | 0.8         | 78                 | 9           | GUADELO RAZET          | 32           | 25              | 34     | 23     | 28  | 1.2         | 112   | 33                 |  |  |
| NAGOYA                 | 31              | 23      | 36     | 20     | 27  | 1.2         | 193                | -22         | MARTINIQU LAMENTIN     | 31           | 25              | 32     | 22     | 28  | 1.4         | 230   | 14                 |  |  |
| TOKYO                  | 29              | 23      | 36     | 17     | 26  | 0.5         | 168                | 42          | BARBADO BRIDGETOWN     | 31           | 25              | 31     | 23     | 28  | 0.8         | 219   | 88                 |  |  |
| YOKOHAMA               | 28              | 22      | 35     | 17     | 25  | 0.5         | 167                | 27          | TRINIDAD PORT OF SPAIN | 31           | 24              | 34     | 23     | 28  | 1.5         | 267   | 15                 |  |  |
| KYOTO                  | 32              | 24      | 36     | 21     | 28  | 1.5         | 113                | -138        | COLOMBI BOGOTA         | 18           | 9               | 27     | 7      | 14  | 0.4         | 75    | 39                 |  |  |
| OSAKA                  | 31              | 25      | 35     | 20     | 28  | 1.0         | 147                | -12         | VENEZUE CARACAS        | 31           | 24              | 33     | 23     | 28  | 1.1         | 88    | 32                 |  |  |
| THAILAND PHETCHABUN    | 33              | 25      | 36     | 23     | 29  | 1.3         | 172                | -26         | F GUIANA CAYENNE       | 31           | 23              | 33     | 23     | 27  | 1.4         | 174   | -71                |  |  |
| BANGKOK                | 34              | 26      | 37     | 24     | 30  | 1.3         | 269                | 114         | BRAZIL RECIFE          | 28           | 21              | 37     | 18     | 25  | 0.6         | 168   | -212               |  |  |
| MALAYSIA KUALA LUMPUR  | 33              | 25      | 36     | 23     | 29  | 2.3         | 203                | 71          | BELO HORIZONTE         | 24           | 15              | 29     | 11     | 20  | 1.1         | 0     | -39                |  |  |
| VIETNAM HANOI          | 35              | 28      | 39     | 26     | 32  | 2.7         | 115                | -208        | FRANCA                 | 25           | 15              | 28     | 9      | 20  | 4.6         | 0     | -22                |  |  |
| CHINA HARBIN           | 28              | 19      | 31     | 16     | 24  | 0.5         | 88                 | -56         | RIO DE JANEIRO         | 24           | 20              | 30     | 16     | 22  | 0.9         | 37    | -15                |  |  |
| HAMI                   | 34              | 20      | 40     | 14     | 27  | 0.1         | 6                  | -1          | LONDRINA               | 20           | 13              | 30     | 5      | 17  | -0.2        | 41    | -27                |  |  |
| LANCHOW                | 29              | 18      | 35     | 12     | 24  | 1.4         | 75                 | 19          | SANTA MARIA            | 19           | 12              | 28     | 5      | 16  | 2.2         | 227   | 78                 |  |  |
| BEIJING                | 31              | 23      | 35     | 19     | 27  | 0.7         | 234                | 58          | PORTO ALEGRE           | 19           | 11              | 26     | 6      | 15  | 1.0         | 133   | 5                  |  |  |
| TIENTSIN               | 31              | 24      | 35     | 20     | 27  | 0.8         | 126                | -51         | PERU LIMA              | 20           | 16              | 23     | 14     | 18  | 1.2         | 2     | 1                  |  |  |
| LHASA                  | 22              | 11      | 25     | 7      | 17  | 0.5         | 149                | 25          | BOLIVIA LA PAZ         | 14           | -1              | 16     | -6     | 7   | 0.6         | 0     | -9                 |  |  |
| KUNMING                | 23              | 18      | 27     | 17     | 21  | 1.0         | 332                | 130         | CHILE SANTIAGO         | 15           | 1               | 22     | -4     | 8   | 0.2         | 1     | -80                |  |  |
| CHENGCHOW              | 32              | 24      | 36     | 21     | 28  | 1.3         | 249                | 103         | ARGENTIN IGUAZU        | 23           | 13              | 28     | 4      | 18  | ***         | 40    | **                 |  |  |
| YEHCHANG               | 33              | 25      | 38     | 23     | 29  | 1.4         | 177                | -29         | FORMOSA                | 24           | 14              | 31     | 3      | 19  | 2.3         | 47    | -1                 |  |  |
| HANKOW                 | 33              | 27      | 38     | 24     | 30  | 1.2         | 759                | 808         | CERES                  | 20           | 9               | 24     | 1      | 14  | 1.8         | 10    | -9                 |  |  |
| CHUNGKING              | 32              | 25      | 36     | 23     | 29  | ***         | 168                | **          | CORDOBA                | 19           | 7               | 23     | 2      | 13  | 2.7         | 2     | -11                |  |  |
| CHIHKIANG              | 32              | 25      | 35     | 23     | 28  | 0.7         | 208                | 92          | RIO CUARTO             | 18           | 7               | 22     | 3      | 12  | 3.1         | 7     | -7                 |  |  |
| WU HU                  | 34              | 26      | 37     | 22     | 30  | ***         | 144                | **          | ROSARIO                | 18           | 8               | 22     | -1     | 13  | 2.5         | 22    | -16                |  |  |
| SHANGHAI               | 33              | 27      | 37     | 24     | 30  | ***         | 127                | **          | BUENOS AIRES           | 16           | 8               | 21     | 2      | 12  | 2.5         | 74    | 19                 |  |  |
| NANCHANG               | 33              | 26      | 37     | 22     | 30  | 0.2         | 475                | 354         | SANTA ROSA             | 17           | 4               | 22     | -1     | 11  | 3.1         | 9     | -10                |  |  |
| TAIPEI                 | 34              | 27      | 37     | 24     | 31  | 2.4         | 256                | 22          | TRES ARROYOS           | 16           | 6               | 20     | -1     | 11  | 3.3         | 3     | -40                |  |  |
| CANTON                 | 33              | 26      | 36     | 22     | 30  | 0.9         | 221                | 8           | NEW CAL NOUMEA         | 25           | 19              | 29     | 17     | 22  | 2.3         | 27    | -46                |  |  |
| NANNING                | 33              | 26      | 36     | 24     | 29  | 0.9         | 376                | 178         | FIJI NAUSORI           | 27           | 19              | 29     | 15     | 23  | 0.2         | 53    | -59                |  |  |
| CANARY I LAS PALMAS    | 27              | 21      | 31     | 19     | 24  | 0.5         | 0                  | 0           | SAMOA PAGO PAGO        | 29           | 26              | 31     | 22     | 26  | 1.5         | 38    | -121               |  |  |
| MOROCC CASABLANCA      | 25              | 20      | 29     | 19     | 23  | 0.4         | 0                  | -1          | TAHITI PAPEETE         | 29           | 22              | 30     | 18     | 25  | 0.7         | 87    | 27                 |  |  |
| MARRAKECH              | 38              | 21      | 44     | 15     | 29  | 1.1         | 0                  | -1          | AUSTRALI DARWIN        | 31           | 22              | 34     | 18     | 27  | 1.9         | 0     | -1                 |  |  |
| ALGERIA ALGER          | 31              | 18      | 35     | 14     | 25  | 0.5         | 0                  | -1          | MOREE                  | **           | **              | 29     | 29     | **  | ***         | **    | **                 |  |  |
| BATNA                  | 36              | 21      | 40     | 13     | 28  | 3.5         | 0                  | -7          | BRISBANE               | 20           | 12              | 24     | 5      | 16  | 0.8         | 28    | -40                |  |  |
| TUNISIA TUNIS          | 34              | 22      | 42     | 19     | 28  | 1.6         | 0                  | -2          | PERTH                  | 16           | 7               | 21     | 0      | 12  | -1.1        | 107   | -52                |  |  |
| NIGER NIAMEY           | 34              | 26      | 39     | 19     | 30  | 1.2         | 260                | 108         | CEDUNA                 | 15           | 7               | 18     | 1      | 11  | -0.7        | 81    | 41                 |  |  |
| MALI TIMBUKTU          | 36              | 29      | 43     | 20     | **  | ***         | 16                 | -40         | ADELAIDE               | 13           | 7               | 16     | 2      | 10  | -0.8        | 38    | -29                |  |  |
| BAMAKO                 | 32              | 24      | 36     | 19     | 28  | 1.8         | 198                | -31         | MELBOURNE              | 12           | 5               | 15     | 0      | 9   | -0.8        | 35    | -8                 |  |  |
| MAURITAN NOUAKHOTT     | 30              | 23      | 44     | 20     | 27  | -0.5        | 10                 | -3          | WAGGA                  | 11           | 4               | 16     | -3     | 7   | 0.0         | 49    | -6                 |  |  |
| SENEGAL DAKAR          | 29              | 25      | 32     | 22     | 27  | 0.2         | 1                  | -59         | CANBERRA               | 10           | 1               | 13     | -5     | 6   | 0.5         | 74    | 33                 |  |  |
| CHAGOS DIEGO GARCIA    | 28              | 28      | 29     | 23     | 27  | 0.6         | 36                 | -105        | INDONESI DJAKARTA      | **           | **              | 34     | 22     | **  | ***         | 40    | **                 |  |  |
| LIBYA TRIPOLI          | 35              | 21      | 43     | 17     | 28  | 0.4         | 0                  | 0           | PHILIPPI MANILA        | 33           | 27              | 36     | 25     | 30  | 1.9         | 132   | -168               |  |  |
| BENGHAZI               | 31              | 22      | 42     | 19     | 27  | 0.7         | 0                  | 0           |                        |              |                 |        |        |     |             |       |                    |  |  |
| EGYPT CAIRO            | 35              | 23      | 41     | 20     | 29  | 1.2         | 0                  | 0           |                        |              |                 |        |        |     |             |       |                    |  |  |
| ASWAN                  | 42              | 28      | 44     | 22     | 35  | 1.3         | 0                  | 0           |                        |              |                 |        |        |     |             |       |                    |  |  |
| ETHIOPIA ADDIS ABABA   | 20              | 12      | 27     | 9      | 16  | 0.6         | 245                | -6          |                        |              |                 |        |        |     |             |       |                    |  |  |
| KENYA NAIROBI          | 21              | 12      | 26     | 8      | 16  | -0.4        | 29                 | 18          |                        |              |                 |        |        |     |             |       |                    |  |  |
| TANZANIA DAR ES SALAAM | 29              | 19      | 32     | 15     | 24  | 0.3         | 4                  | -24         |                        |              |                 |        |        |     |             |       |                    |  |  |
| GABON LIBREVILLE       | 28              | 23      | 30     | 20     | 26  | 1.5         | 48                 | 47          |                        |              |                 |        |        |     |             |       |                    |  |  |
| TOGO LOME              | 30              | 24      | 37     | 22     | 27  | 1.7         | 3                  | -98         |                        |              |                 |        |        |     |             |       |                    |  |  |
| BURKINA OUAGADOUGOU    | 33              | 25      | 36     | 23     | 29  | 1.5         | 204                | 20          |                        |              |                 |        |        |     |             |       |                    |  |  |
| COTE D'I ABIDJAN       | 29              | 23      | 32     | 22     | 26  | 0.9         | 57                 | -213        |                        |              |                 |        |        |     |             |       |                    |  |  |
| MOZAMBI MAPUTO         | 25              | 14      | 31     | 9      | 20  | 0.8         | 42                 | 22          |                        |              |                 |        |        |     |             |       |                    |  |  |
| ZAMBIA LUSAKA          | 21              | 8       | 29     | 6      | 15  | -1.5        | 3                  | 3           |                        |              |                 |        |        |     |             |       |                    |  |  |
| ZIMBABW HARARE         | 23              | 8       | 26     | 6      | 16  | 2.5         | 0                  | -2          |                        |              |                 |        |        |     |             |       |                    |  |  |

Based on Preliminary Reports



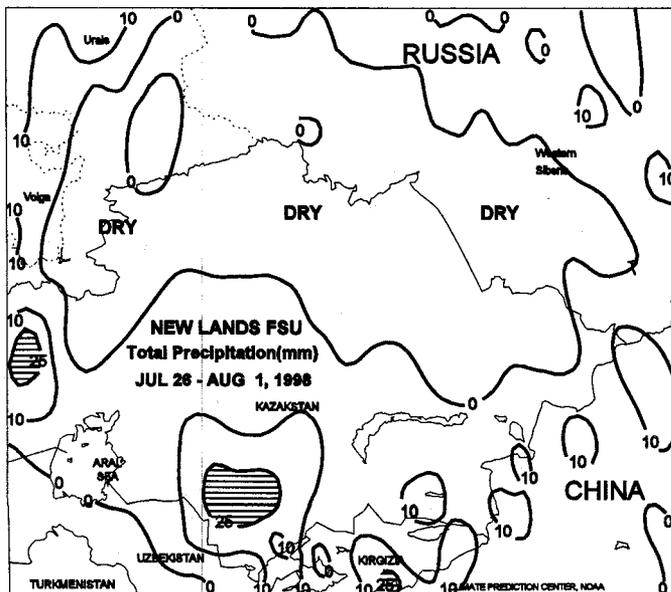
**EUROPE**

Winter grain and oilseed harvests continued to advance northward in the region. Scattered showers (4-15 mm) in southern England and northern France caused only brief interruptions in harvest activities. Farther east, light to moderate showers (10-50 mm) fell from Germany eastward through Poland and southward through the Czech Republic and Slovakia into Hungary, interrupting harvesting. Greatest delays in harvesting likely occurred in the Czech Republic, Slovakia, and Hungary, where rainfall ranged from 25 to more than 50 mm. However, the rainfall in these areas provided soil moisture for summer crop development. Elsewhere, widespread rain (25-50 mm) in southern France and parts of northern Italy favored corn and sunflowers in the filling stage. Hot, dry weather in southeastern Europe favored late winter grain harvesting but stressed corn and sunflowers. Weekly temperatures averaged slightly below normal in northwestern Europe and 3 to 5 degrees C above normal in the southeast.



**FSU-WESTERN**

In Russia, unrelenting heat continued in the North Caucasus, Volga Valley, and the Central Black Soils Region, reducing yield prospects of corn, sunflowers, and sugar beets in the filling stage. Maximum temperatures on most days ranged from 33 to 38 degrees C, accelerating crop development. A few scattered showers (10-15 mm) brought only brief relief to drought-stressed crops in the Volga Valley. Winter grain harvesting rapidly advanced in Russia, helped by hot, generally dry weather conditions. The hot weather spread westward into Ukraine, increasing stress on corn and sunflowers there as well. Elsewhere, light to moderate showers (10-50 mm) stretched from the Baltic States southward through Belarus into western Ukraine, slowing winter grain harvesting but providing beneficial moisture for summer crop development. Weekly temperatures averaged near normal in the Baltic States, 1 to 3 degrees C above normal in Belarus and the western Ukraine, and 3 to 6 degrees C above normal in eastern Ukraine and most of Russia.

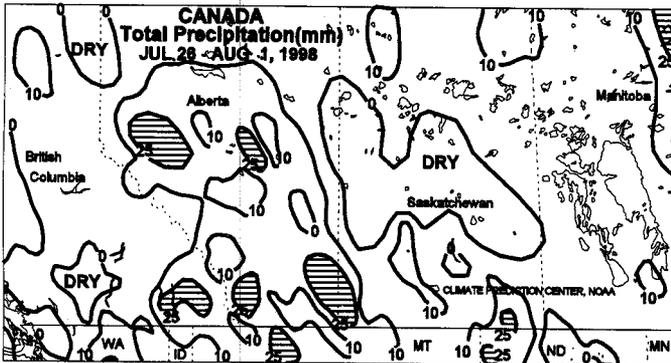


**FSU-NEW LANDS**

In Kazakhstan, unfavorably hot, dry weather continued to prevail over most of the region, hastening spring grain development and lowering crop prospects. On most days during the week, maximum temperatures ranged from 31 to 35 degrees C in major spring grain-producing areas of central Kazakhstan and 34 to 38 degrees C in the west. In Russia, hot, dry weather continued in the northern Urals and central growing areas of Western Siberia, reducing prospects for spring grains in the filling stage. Although mostly dry weather prevailed over spring grain areas in the Altay Kray region of Russia, soil moisture was sufficient for normal spring grain development. Highest weekly temperatures in the region ranged from 28 to 31 degrees C. Weekly temperatures averaged 4 to 8 degrees C above normal in the western two-thirds of Russia and Kazakhstan and were 1 to 3 degrees C above normal in the Altay Kray region in Russia. In cotton-producing areas of Central Asia, seasonably warm, dry weather favored normal cotton development.

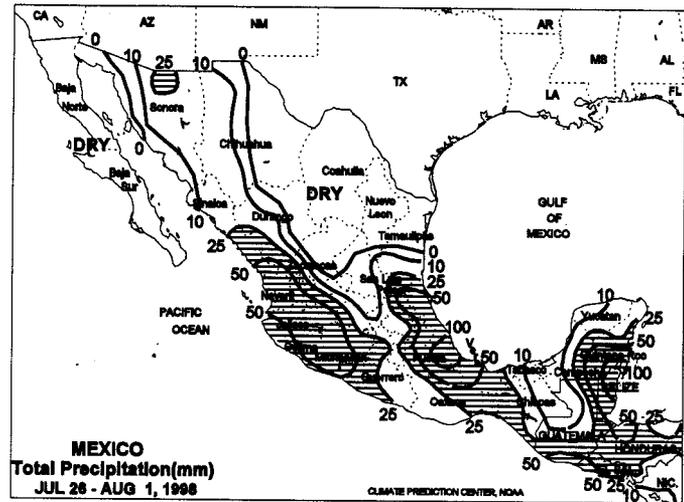
CANADA

Late-week showers (10-44 mm) brought some relief to sections of the southwestern Prairies, following a brief heat wave. However, the needed rain failed to reach all areas, and some filling spring grains and oilseeds experienced additional stress. Temperatures in the western Prairies averaged near to above normal, hastening crop development. Elsewhere in the Prairies, rain was widely scattered, with just spotty locations receiving 10-25 mm, and temperatures averaging near to below normal. Due to this season's early planting progress, crops are ahead of schedule in development and advancing toward maturity, with some harvest activities underway in southern growing areas. In eastern Canada, dry, seasonably warm weather in Ontario favored development of corn and soybeans following last week's beneficial rain. Rain (10-34 mm) moistened topsoils in Quebec's southern agricultural districts.



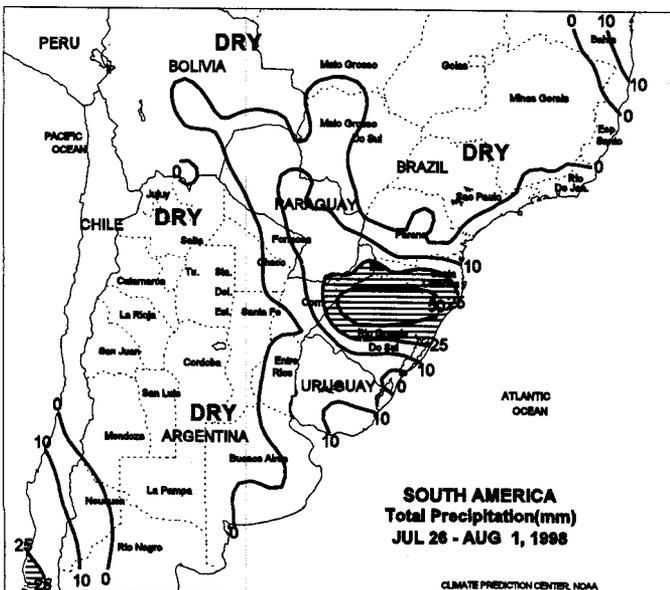
MEXICO

Widespread showers (18-60 mm) covered the Southern Plateau Corn Belt, aiding vegetative corn. In the northeast, hot, dry weather continued to limit moisture supplies for rainfed crops. Temperatures averaged 2 to 3 degrees C above normal across the northeast and near normal across the main corn belt.



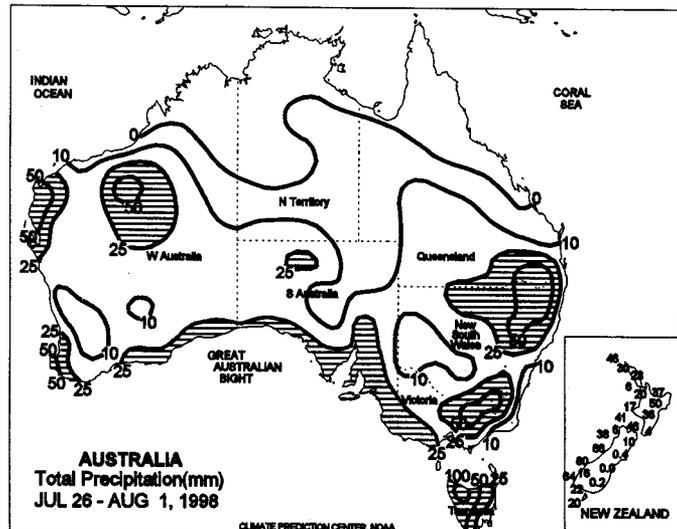
SOUTH AMERICA

Mostly dry weather prevailed across central Argentina, favoring winter wheat planting. Rain will be needed in upcoming weeks to ensure uniform wheat germination and establishment in southern Buenos Aires. Dry weather also favored cotton harvesting in northern Argentina. According to reports as of July 24, Argentine cotton and corn crops were 83 and 96 percent harvested, respectively. Last year at this time, cotton and corn crops were 98 and 97 percent harvested, respectively. Winter wheat planting was 74 percent complete, compared with 86 percent last year. In southern Brazil, rain (20-65 mm) maintained adequate moisture supplies for winter wheat in Rio Grande do Sul and Santa Catarina. Dry, warm weather continued to favor coffee and citrus harvesting in Minas Gerais and northern Sao Paulo.



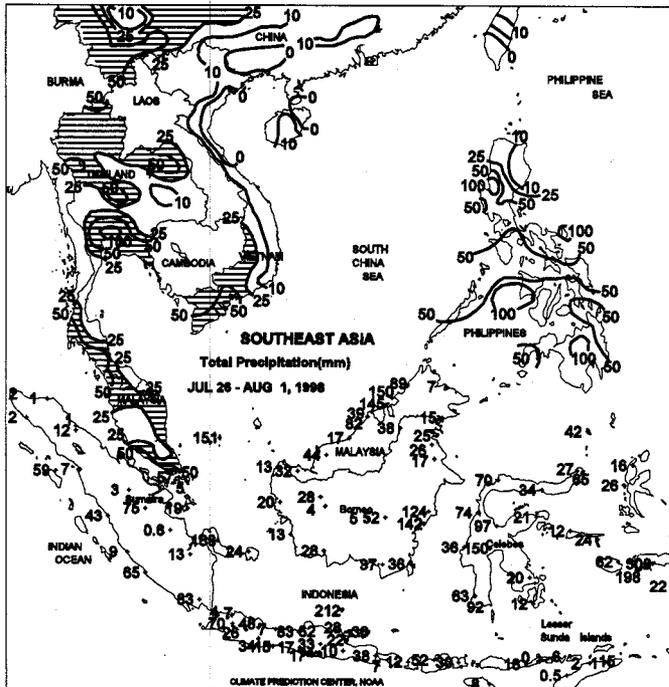
AUSTRALIA

Moderate showers (15-35 mm, locally exceeding 50 mm) increased topsoil moisture levels in the southeastern wheat and barley areas (South Australia, Victoria, and southern New South Wales), ending a recent dry spell. Farther north, moderate to heavy rain (25-50 mm or more) covered the winter grain areas of southeastern Queensland and northern New South Wales, with lighter showers over the remainder of eastern Australia's agricultural areas. Light rain (15 mm or less) kept topsoils moist in Western Australia's winter grain belt. Near- to below-normal temperatures, with many reports of frost and freezing, covered the winter grain belts. In New Zealand, dry weather persisted along the east coast of South Island, but variable showers (3-46 mm) occurred elsewhere.



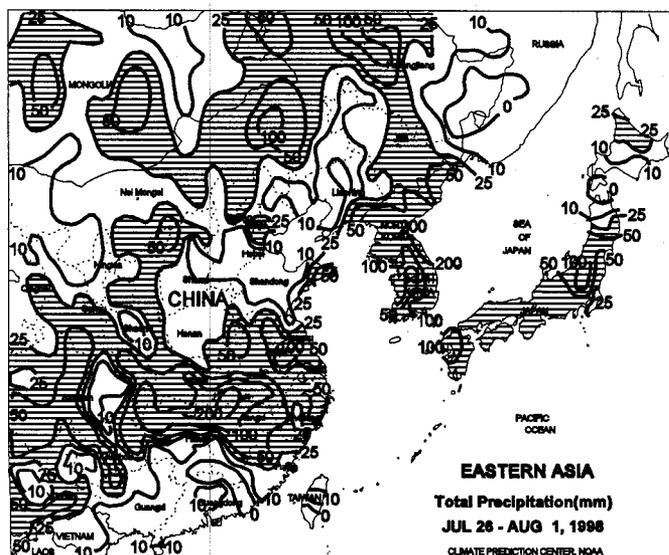
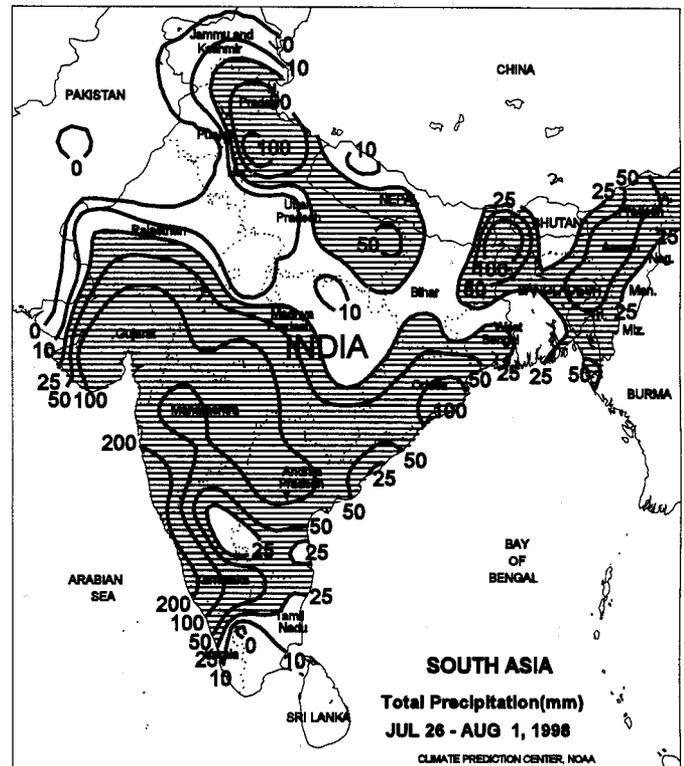
**SOUTHEAST ASIA**

Widespread showers (40-170 mm) brought drought relief to most of the Philippines. However, widespread, heavy rains are needed during the remainder of the rainy season to eliminate long-term moisture deficits. Scattered showers (10-60 mm) prevailed over Thailand, bringing short-term relief to portions of the southern and northern rice areas. However, unseasonably light showers (5-30 mm) limited moisture supplies in the main northeastern rice areas. In northern Vietnam, mostly dry weather reduced moisture supplies for 10th-month rice, while widespread showers (30-80 mm) increased moisture supplies in the south. Moderate showers (20-40 mm) favored oil palm across peninsular Malaysia. In Java, unseasonably heavy showers (10-50 mm) continued to maintain adequate irrigation supplies for second-season corn and rice.



**SOUTH ASIA**

Moderate to heavy rain returned to important oilseed and cotton areas of central India. In the interior crop areas, the heaviest rain (50-100 mm or more) stretched from the groundnut areas of western Gujarat southeastward through Andhra Pradesh, greatly improving moisture reserves for vegetative to reproductive summer crops. The rain also brought temperatures down to more seasonable levels, especially in the soybean belt, where temperatures reached the mid to upper 30's degrees C earlier in the week. However, dry pockets persisted in northern soybean areas, reducing moisture for normal development. In fact, dry, hot weather covered much of north-central India and Pakistan, increasing irrigation requirements for cotton and rice. Elsewhere, except for seasonably heavy rain (100-300 mm or more) along the southwest coast, shower activity was widely scattered, although many locations in the eastern rice belt reported moderate rain (25-50 mm).



**EASTERN ASIA**

Heavy showers (75-175 mm, with isolated amounts greater than 300 mm) again fell across the Yangtze Valley, causing additional flooding and rice damage, and hindering recovery efforts. Moderate showers (10-50 mm) prevailed elsewhere in southern China, except in Guangdong and Guangxi where mostly dry weather was reported. Moderate showers (10-60 mm) benefited reproductive to filling summer crops in the southern North China Plain (Henan, northern Anhui, and Jiangsu). Drier weather (less than 10 mm) reduced soil moisture for summer crops in Shandong and southern Hebei. In Manchuria, widespread rain (10-45 mm) favored filling soybeans and spring wheat, but slowed early-maturing spring wheat. Temperatures averaged 1 to 2 degrees C below normal in the lower Yangtze Valley and near normal elsewhere in China. Moderate to heavy rain (50-150 mm, with isolated amounts greater than 200 mm) fell across the Korean Peninsula, increasing moisture supplies for rice, but causing some local flooding. Moderate rain (30-70 mm) also covered Japan, with heavier rain (70-150 mm) causing local flooding in north-central Honshu, Japan.

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

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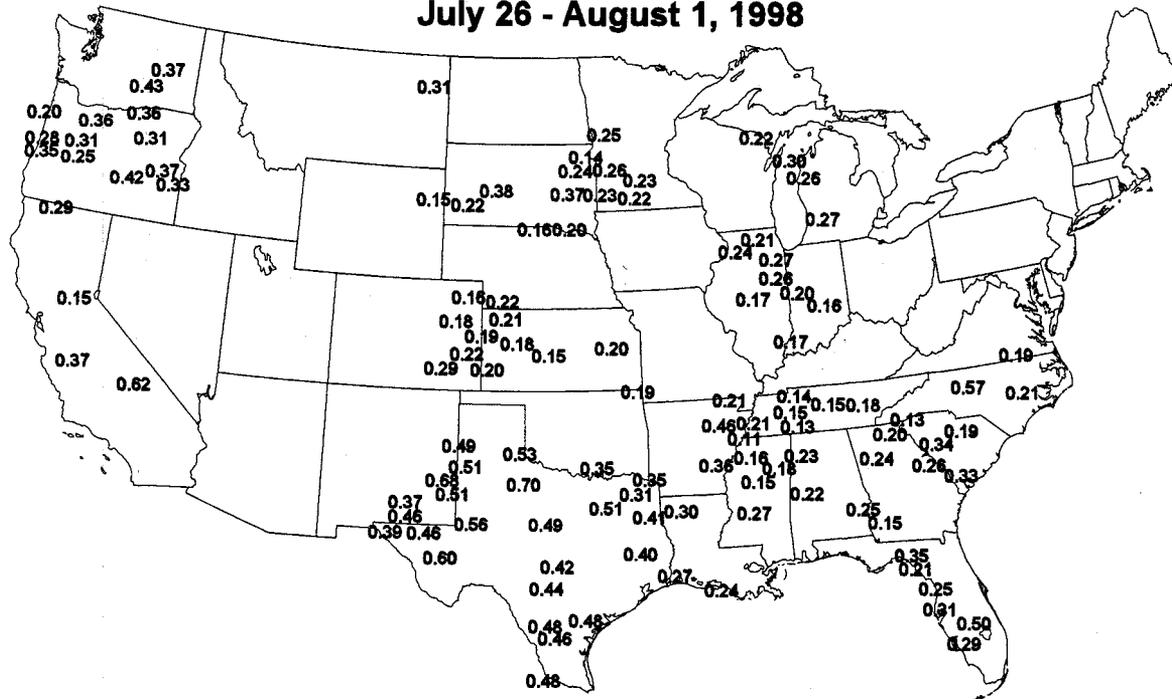
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**Average Pan Evaporation (Inches/Day)**

**July 26 - August 1, 1998**



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Based on preliminary data

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