

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

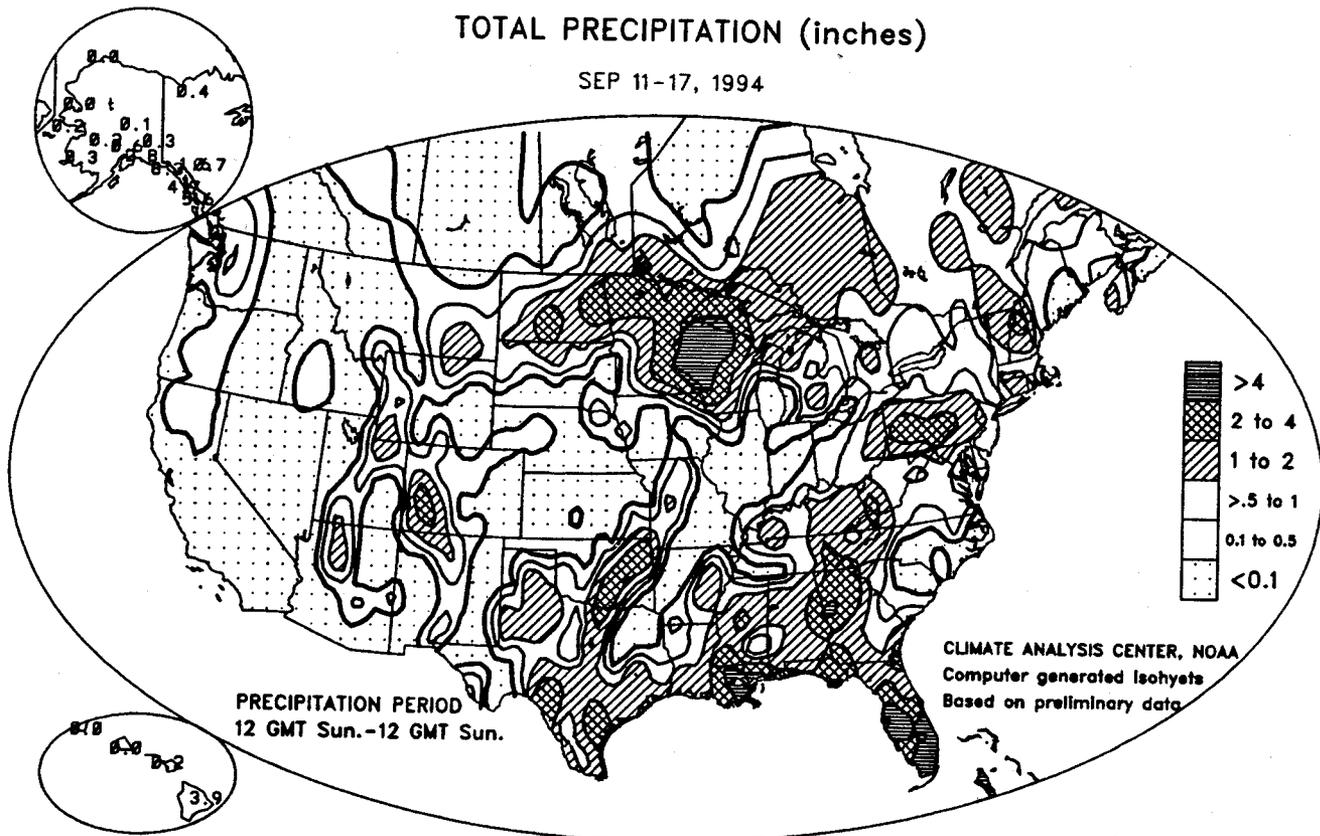
Volume 81, No. 38

Washington, D.C.

September 20, 1994

TOTAL PRECIPITATION (inches)

SEP 11-17, 1994



HIGHLIGHTS

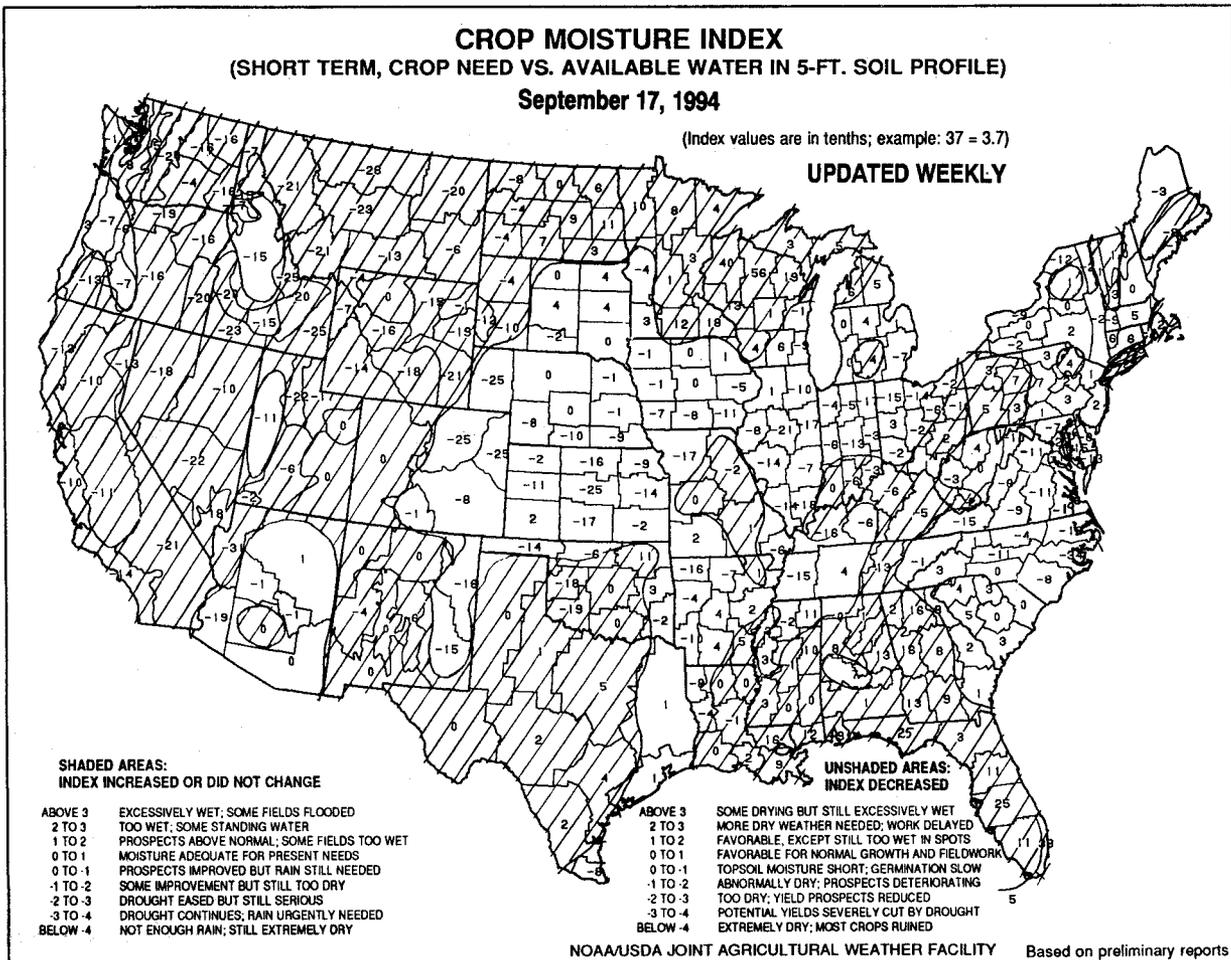
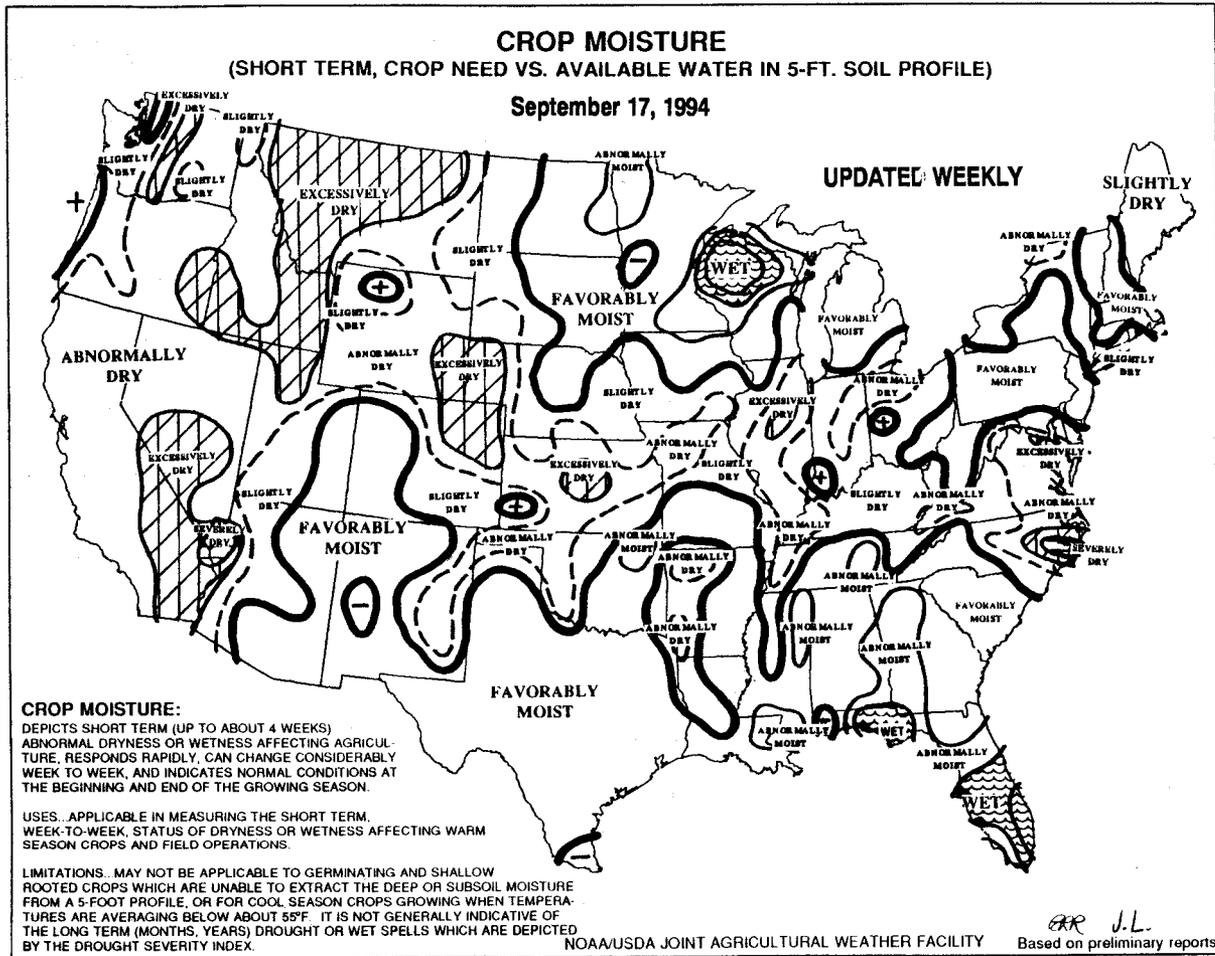
September 11 - 17, 1994

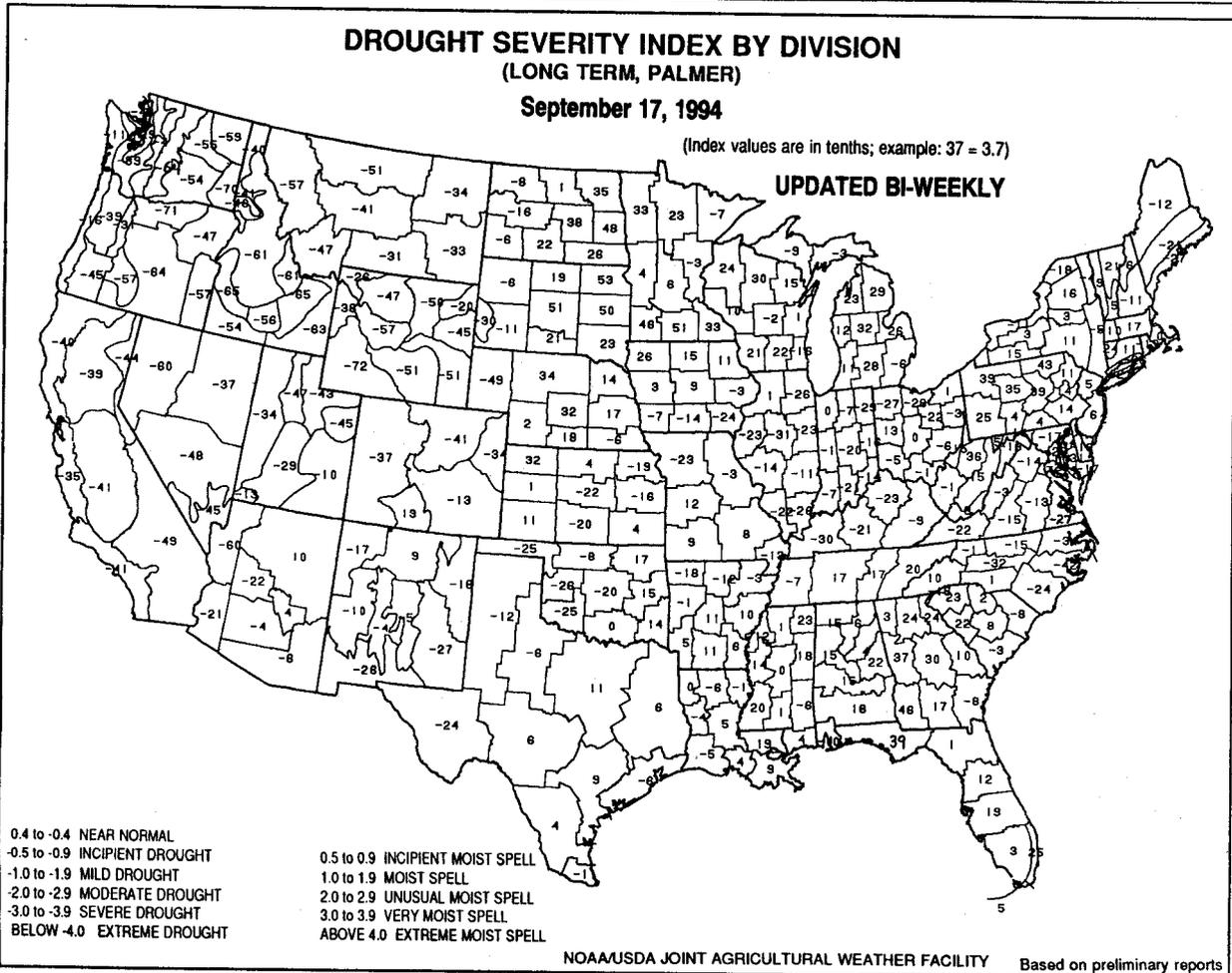
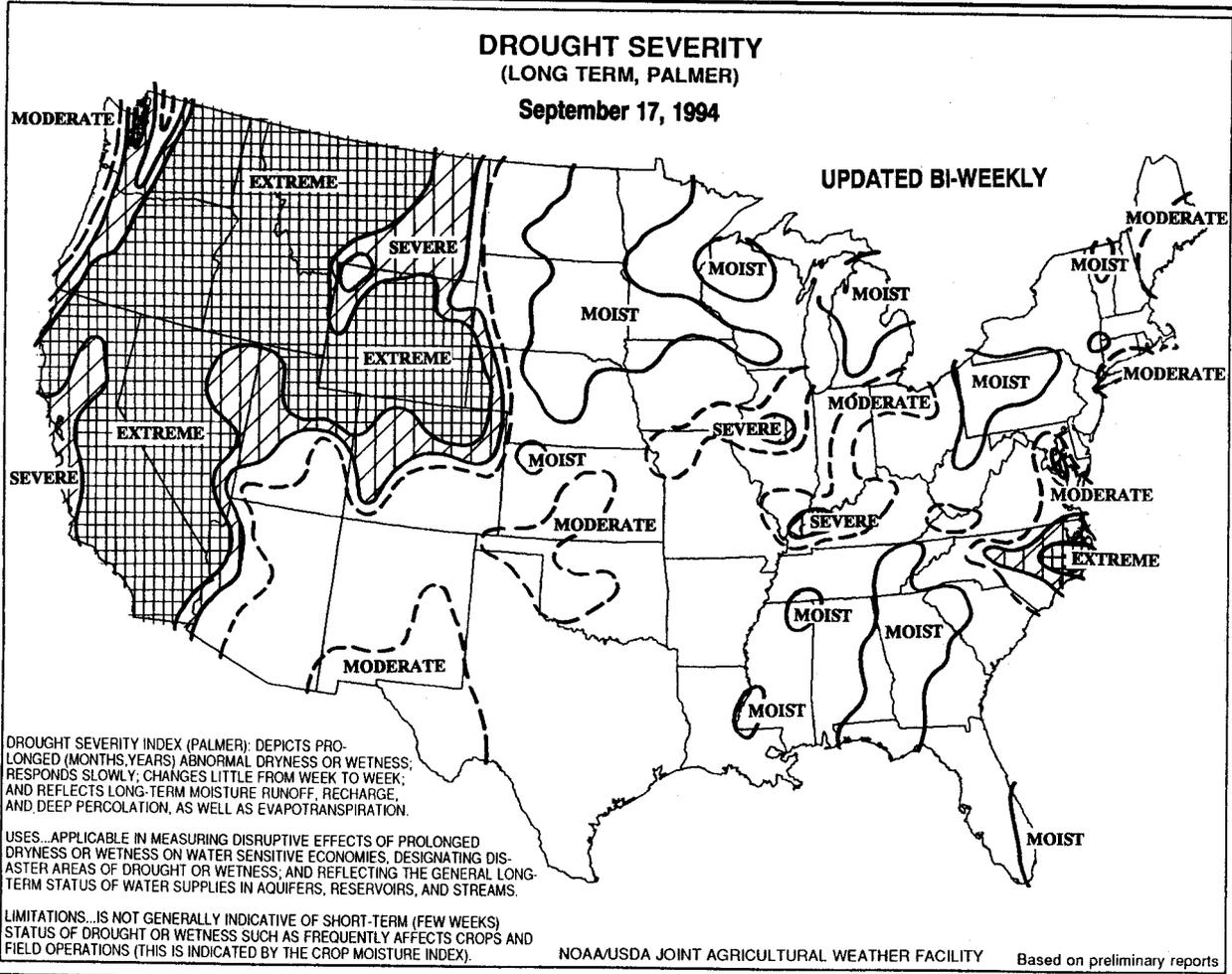
A strong low pressure system formed over the Great Basin early in the week and tracked steadily northeastward, reaching Quebec by week's end. Widespread rain fell on 4 consecutive days (Monday to Thursday) in the North Central States along the storm's warm front, and late in the week across the Southeast, as tropical moisture spread northwestward. Florida endured a week-long spate of local downpours. In contrast, generally dry and very warm conditions, with temperatures 6 to 12°F above normal, encompassed the southern two-thirds of the Corn Belt. Late in the week, slightly cooler air overspread much of the Nation.

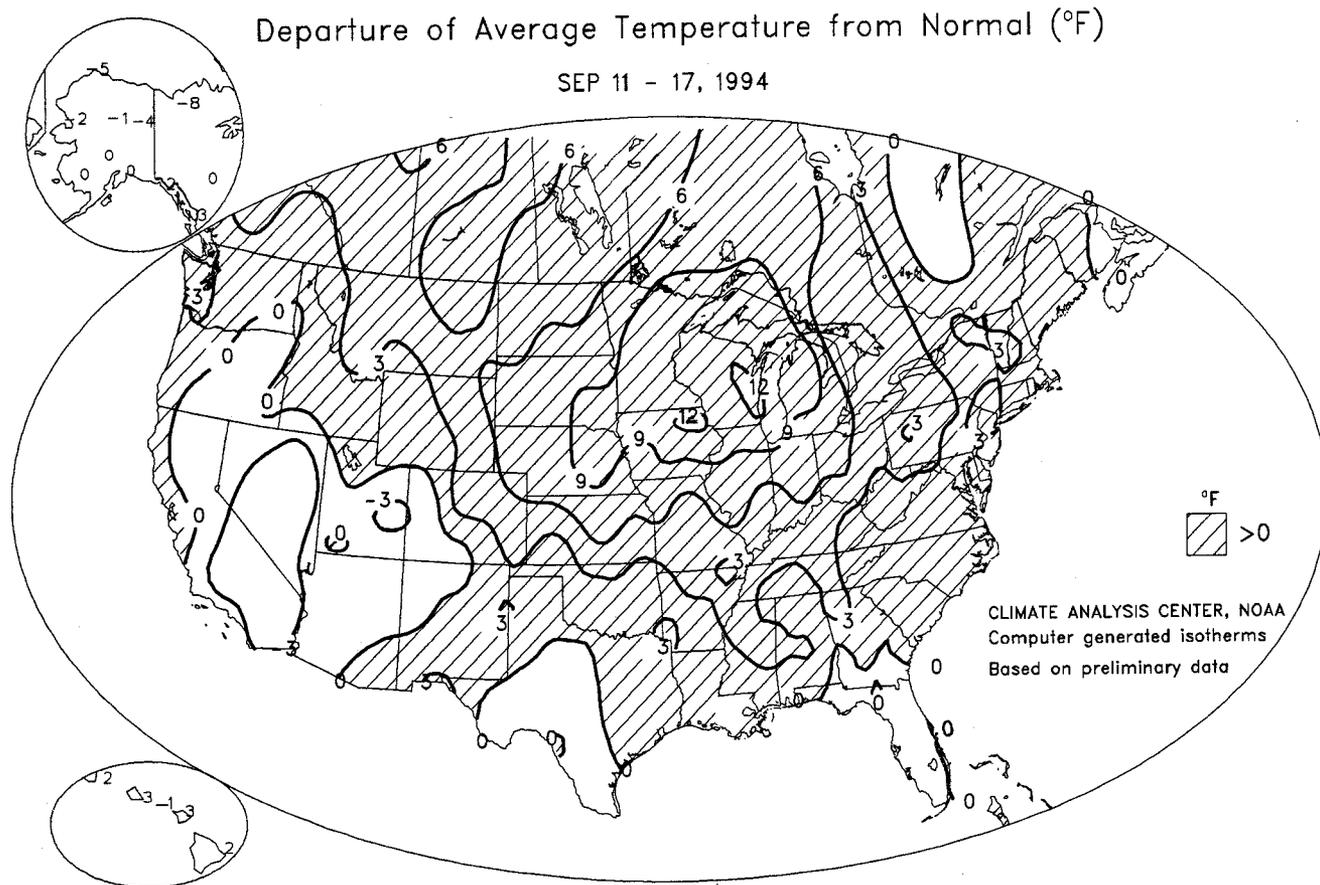
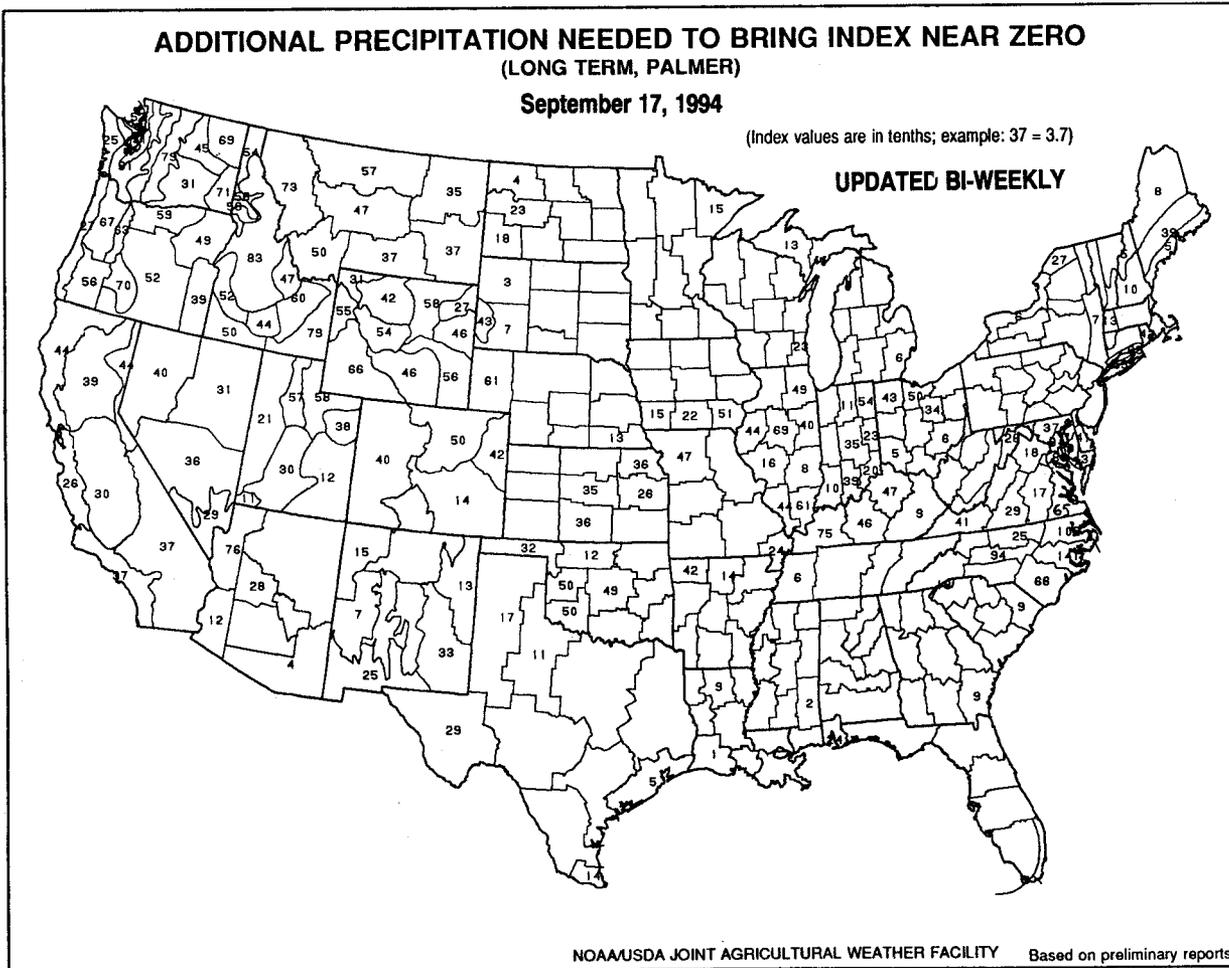
High winds buffeted the West as the storm developed, with gusts on Sunday reaching 40 mph at Ely, NV and 39 mph at St. George, UT. A trace of
(Continued to back cover)

Contents

| | Page |
|--|------|
| Highlights & Total Precipitation Map | 1 |
| Crop Moisture Maps | 2 |
| Drought Severity Maps | 3 |
| Precipitation Needed to End Drought & Temperature Departure Map | 4 |
| Extreme Maximum & Minimum Temperature Maps ... | 5 |
| National Weather Data for Selected Cities | 6 |
| National Agricultural Summary | 9 |
| Crop Progress and Condition Tables | 10 |
| State Summaries of Weather and Agriculture ... | 12 |
| Resurgent El Niño Affects Pacific Weather | 18 |
| International Weather and Crop Summary & August Precipitation/Temperature Maps | 19 |
| Subscription and Mailing Permit Information .. | 32 |

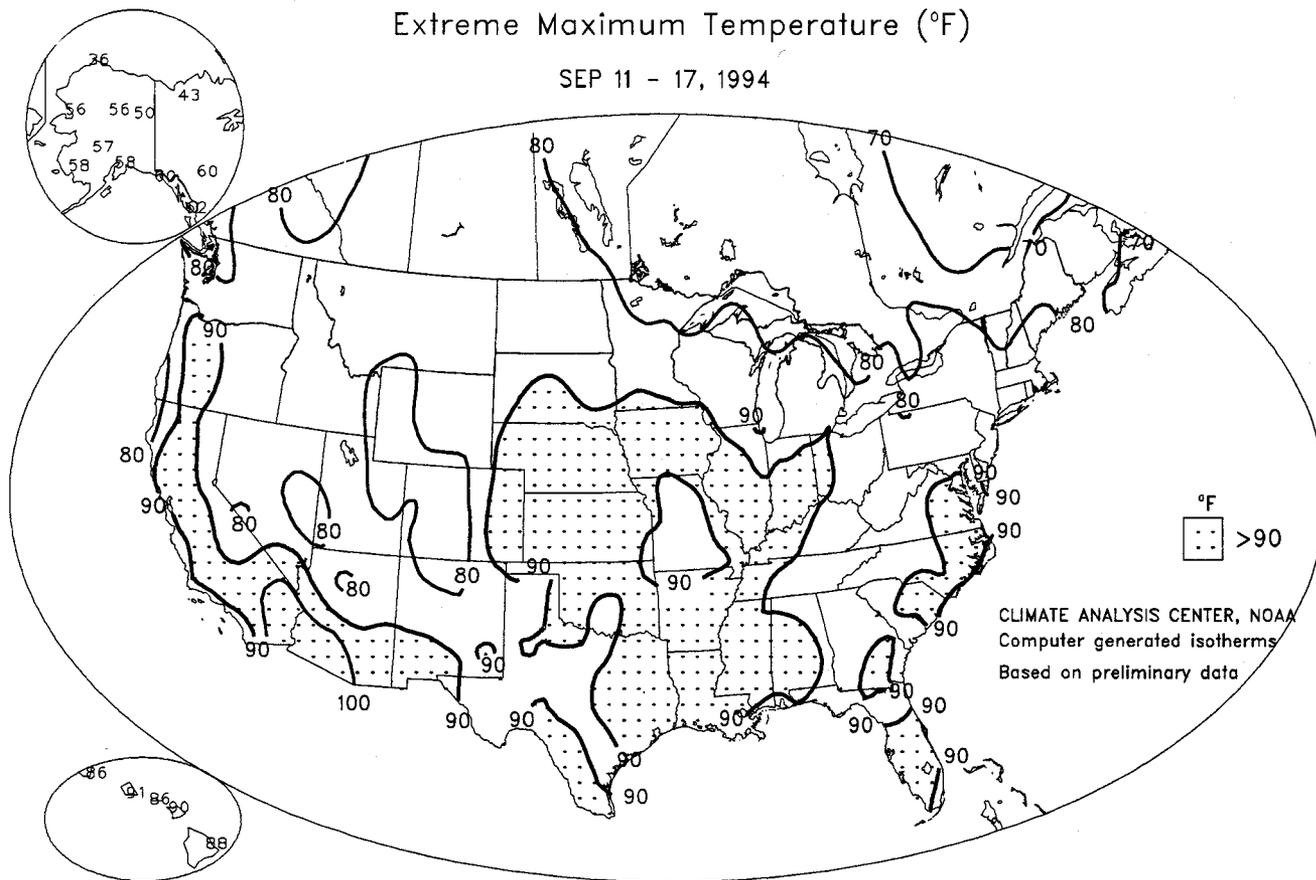






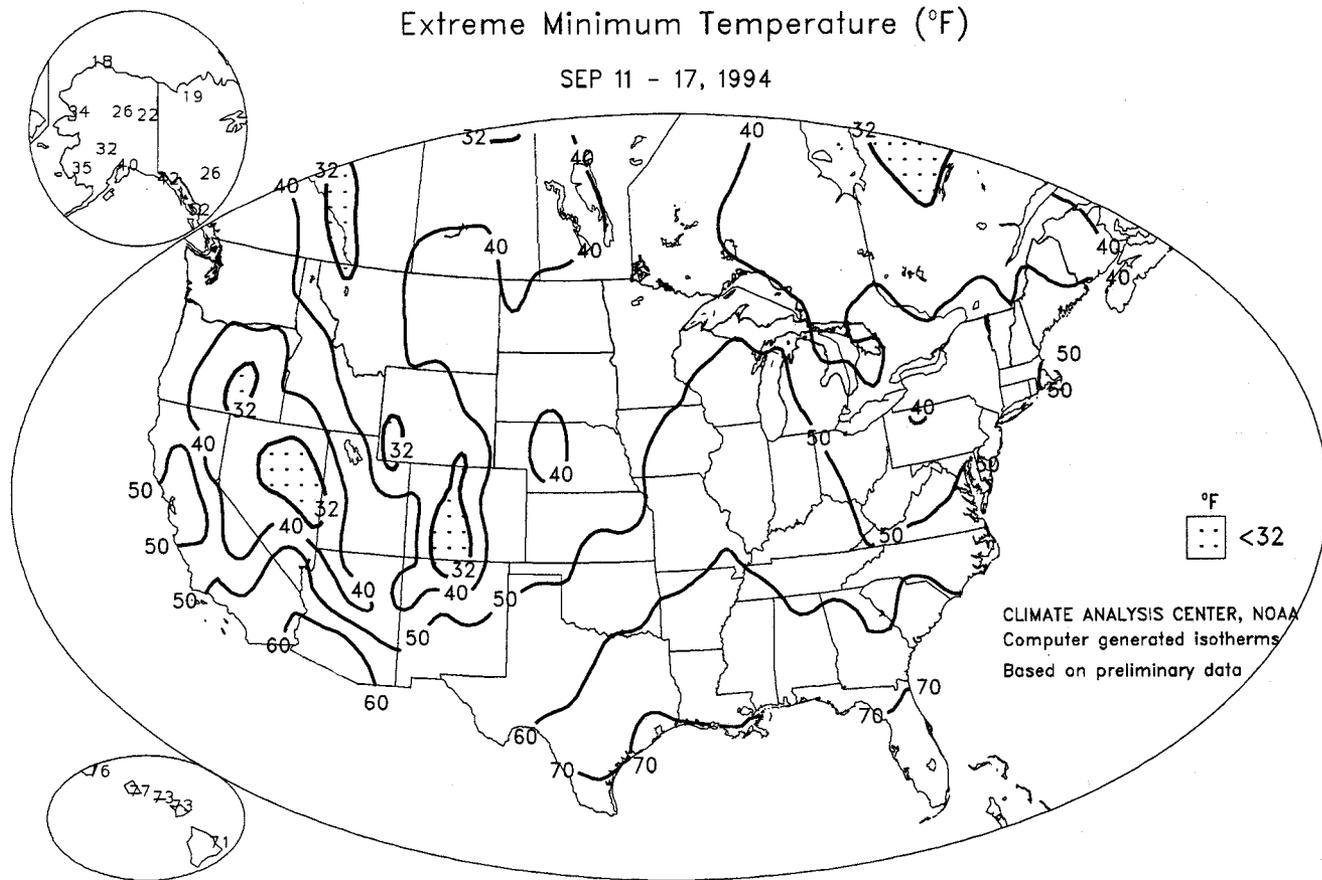
Extreme Maximum Temperature (°F)

SEP 11 - 17, 1994



Extreme Minimum Temperature (°F)

SEP 11 - 17, 1994



National Weather Data for Selected Cities

Weather Data for the Week Ending September 17, 1994

| 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 Sep 1 | PCT. NORMAL SINCE Sep 1 | TOTAL, IN., SINCE Jan 1 | PCT. NORMAL SINCE Jan 1 | AVERAGE MAXIMUM | AVERAGE MINIMUM | 90 AND ABOVE | 32 AND BELOW | TEMP. °F | | PRECIP. | |
| | | | | | | | | | | | | | | | | | | .01 INCH OR MORE | .50 INCH OR MORE | | |
| AL BIRMINGHAM | 88 | 67 | 90 | 62 | 77 | 3 | .9 | .0 | .9 | 1.1 | 46 | 43.4 | 107 | 93 | 51 | 1 | 0 | 2 | 1 | | |
| MOBILE | 86 | 70 | 89 | 65 | 78 | 0 | .4 | -1.0 | .3 | 1.5 | 40 | 41.6 | 84 | 96 | 54 | 0 | 0 | 3 | 0 | | |
| MONTGOMERY | 89 | 69 | 91 | 63 | 79 | 3 | 1.8 | 1.0 | 1.6 | 4.4 | 200 | 44.8 | 107 | 92 | 51 | 4 | 0 | 2 | 1 | | |
| AK ANCHORAGE | 55 | 44 | 58 | 40 | 50 | 1 | .5 | -.2 | .2 | 1.1 | 74 | 7.4 | 70 | 94 | 72 | 0 | 0 | 5 | 0 | | |
| BARROW | 30 | 23 | 36 | 18 | 26 | -5 | T | T | .3 | .3 | 89 | 3.6 | 109 | 90 | 75 | 0 | 7 | 0 | 0 | | |
| FAIRBANKS | 59 | 36 | 66 | 29 | 47 | 1 | .1 | -.1 | .1 | .5 | 84 | 6.7 | 83 | 94 | 41 | 0 | 1 | 1 | 0 | | |
| JUNEAU | 54 | 49 | 56 | 46 | 52 | 2 | 2.8 | 1.3 | .8 | 3.9 | 91 | 29.7 | 87 | 100 | 86 | 0 | 0 | 6 | 3 | | |
| KODIAK | 56 | 47 | 62 | 43 | 52 | 1 | 1.7 | -.1 | .5 | 2.7 | 71 | 56.6 | 127 | 97 | 78 | 0 | 0 | 5 | 1 | | |
| WOMW | 52 | 39 | 60 | 36 | 45 | -2 | .2 | -.4 | .1 | 1.2 | 82 | 12.9 | 120 | 87 | 56 | 0 | 0 | 2 | 0 | | |
| AZ PHOENIX | 97 | 71 | 101 | 64 | 84 | -2 | .1 | -.1 | .1 | 1.3 | 288 | 4.3 | 85 | 59 | 21 | 7 | 7 | 0 | 0 | | |
| PRESCOTT | 80 | 51 | 84 | 44 | 66 | 1 | .2 | -.3 | .2 | 1.4 | 106 | 10.2 | 69 | 66 | 23 | 0 | 0 | 1 | 0 | | |
| TUCSON | 97 | 69 | 99 | 64 | 83 | 2 | T | -.4 | T | 1.4 | 136 | 5.3 | 61 | 64 | 21 | 7 | 7 | 0 | 0 | | |
| YUMA | 100 | 74 | 105 | 68 | 87 | 0 | .0 | -.1 | .0 | .0 | 0 | .7 | 35 | 47 | 10 | 0 | 0 | 0 | 0 | | |
| AR FORT SMITH | 88 | 66 | 91 | 62 | 77 | 3 | .0 | -.8 | .0 | .1 | 4 | 39.1 | 136 | 89 | 44 | 3 | 2 | 0 | 0 | | |
| LITTLE ROCK | 87 | 67 | 91 | 65 | 77 | 2 | .3 | -.0 | .3 | 1.1 | 45 | 41.7 | 123 | 86 | 47 | 2 | 0 | 1 | 0 | | |
| CA BAKERSFIELD | 89 | 58 | 99 | 53 | 74 | -4 | .0 | -.0 | .0 | .0 | 0 | 4.2 | 106 | 64 | 24 | 3 | 0 | 0 | 0 | | |
| SUREKA | 66 | 53 | 72 | 50 | 59 | 2 | .0 | -.2 | .0 | T | 10 | 19.5 | 89 | 90 | 66 | 0 | 0 | 0 | 0 | | |
| FRESNO | 87 | 57 | 96 | 53 | 72 | -3 | .0 | -.1 | .0 | .0 | 0 | 6.3 | 89 | 79 | 23 | 3 | 0 | 0 | 0 | | |
| LOS ANGELES | 76 | 62 | 79 | 60 | 69 | -1 | .0 | -.1 | .0 | .0 | 0 | 6.2 | 77 | 84 | 48 | 0 | 0 | 0 | 0 | | |
| REDDING | 91 | 56 | 99 | 51 | 73 | -1 | T | -.2 | T | T | 0 | 15.0 | 75 | 64 | 16 | 4 | 0 | 0 | 0 | | |
| SACRAMENTO | 87 | 55 | 97 | 52 | 71 | -1 | .0 | -.1 | .0 | .0 | 0 | 6.7 | 61 | 92 | 28 | 2 | 0 | 0 | 0 | | |
| SAN DIEGO | 85 | 64 | 78 | 61 | 70 | -2 | .0 | -.1 | .0 | .0 | 0 | 8.2 | 127 | 85 | 52 | 0 | 0 | 0 | 0 | | |
| SAN FRANCISCO | 76 | 55 | 88 | 53 | 66 | 1 | .0 | -.0 | .0 | .0 | 0 | 10.7 | 87 | 90 | 48 | 0 | 0 | 0 | 0 | | |
| CO DENVER | 83 | 53 | 90 | 45 | 68 | -5 | .1 | -.2 | .1 | .1 | 9 | 7.5 | 61 | 82 | 24 | 1 | 0 | 1 | 0 | | |
| GRAND JUNCTION | 80 | 53 | 85 | 43 | 66 | -3 | .7 | -.4 | .3 | .7 | 125 | 4.3 | 61 | 80 | 26 | 0 | 0 | 4 | 0 | | |
| FUEBLO | 87 | 49 | 91 | 38 | 68 | 1 | T | -.2 | T | T | 7 | 12.8 | 135 | 82 | 23 | 3 | 0 | 0 | 0 | | |
| CT BRIDGEPORT | 77 | 61 | 85 | 49 | 69 | 3 | .2 | -.5 | .1 | .3 | 16 | 28.9 | 96 | 81 | 54 | 0 | 0 | 3 | 0 | | |
| HARTFORD | 78 | 56 | 86 | 46 | 67 | 3 | .3 | -.6 | .3 | .6 | 26 | 36.6 | 118 | 86 | 50 | 0 | 0 | 2 | 0 | | |
| DC WASHINGTON | 85 | 63 | 91 | 55 | 74 | 2 | .6 | -.2 | .6 | .6 | 28 | 30.2 | 108 | 87 | 47 | 1 | 0 | 1 | 1 | | |
| FL PANAMA CITY | 83 | 72 | 88 | 70 | 77 | -1 | 3.0 | 1.7 | 1.4 | 4.2 | 121 | 39.0 | 77 | 99 | 73 | 0 | 0 | 6 | 2 | | |
| DAYTONA BEACH | 86 | 72 | 89 | 71 | 79 | 0 | .9 | -.6 | .4 | 2.3 | 61 | 42.7 | 119 | 98 | 69 | 0 | 0 | 3 | 0 | | |
| JACKSONVILLE | 87 | 69 | 89 | 66 | 78 | -2 | 2.1 | -.4 | 1.1 | 4.6 | 113 | 44.4 | 118 | 99 | 65 | 0 | 0 | 4 | 2 | | |
| KEY WEST | 87 | 78 | 89 | 75 | 82 | -1 | 2.0 | -.6 | .9 | 2.3 | 67 | 24.0 | 86 | 87 | 72 | 0 | 0 | 7 | 2 | | |
| MIAMI | 87 | 76 | 90 | 72 | 81 | -1 | 3.9 | 2.1 | 2.1 | 13.0 | 293 | 55.7 | 131 | 91 | 66 | 1 | 0 | 3 | 3 | | |
| ORLANDO | 87 | 71 | 90 | 70 | 79 | -2 | 2.4 | -.9 | 1.0 | 4.2 | 112 | 48.7 | 125 | 99 | 66 | 1 | 0 | 6 | 2 | | |
| TALLAHASSEE | 86 | 70 | 90 | 68 | 78 | -1 | 6.8 | 5.5 | 5.5 | 8.6 | 247 | 69.9 | 135 | 97 | 59 | 1 | 0 | 5 | 2 | | |
| TAMPA | 88 | 72 | 92 | 72 | 80 | -1 | 2.8 | 1.3 | 1.2 | 5.9 | 155 | 39.8 | 111 | 99 | 68 | 2 | 0 | 5 | 2 | | |
| WEST PALM BEACH | 86 | 75 | 89 | 72 | 81 | -1 | 5.6 | 3.9 | 2.0 | 7.0 | 176 | 53.1 | 125 | 91 | 68 | 0 | 0 | 4 | 3 | | |
| GA ATLANTA | 87 | 69 | 89 | 68 | 78 | 5 | 2.5 | 1.7 | 2.0 | 3.6 | 180 | 48.4 | 127 | 88 | 51 | 0 | 0 | 2 | 1 | | |
| AUGUSTA | 88 | 62 | 89 | 57 | 75 | 0 | T | -.7 | T | .1 | 4 | 32.7 | 94 | 99 | 50 | 0 | 0 | 0 | 0 | | |
| MACON | 87 | 64 | 89 | 59 | 76 | 0 | .4 | -.3 | .3 | 1.5 | 88 | 47.5 | 138 | 99 | 53 | 0 | 0 | 2 | 0 | | |
| SAVANNAH | 87 | 69 | 90 | 65 | 78 | 1 | .2 | -.8 | .2 | 4.6 | 160 | 39.5 | 98 | 97 | 53 | 1 | 0 | 1 | 0 | | |
| HI HILO | 86 | 72 | 88 | 71 | 79 | 3 | 3.9 | 1.9 | 1.6 | 9.6 | 198 | 117.4 | 131 | 93 | 71 | 0 | 0 | 6 | 3 | | |
| HONOLULU | 91 | 78 | 91 | 77 | 85 | 3 | .0 | -.2 | .0 | .1 | 19 | 12.1 | 96 | 76 | 51 | 7 | 0 | 0 | 0 | | |
| KAHULUI | 89 | 75 | 90 | 73 | 82 | 3 | .2 | -.2 | .2 | .2 | 171 | 9.7 | 71 | 81 | 60 | 2 | 0 | 2 | 0 | | |
| LIHUE | 86 | 77 | 86 | 76 | 81 | 2 | T | -.5 | T | T | 3 | 20.3 | 76 | 79 | 64 | 0 | 0 | 0 | 0 | | |
| ID BOISE | 78 | 49 | 89 | 41 | 64 | 1 | .1 | -.1 | .1 | .1 | 18 | 5.1 | 62 | 65 | 21 | 0 | 0 | 2 | 0 | | |
| LEWISTON | 76 | 49 | 90 | 44 | 63 | -2 | T | -.2 | T | .3 | 57 | 6.6 | 74 | 66 | 29 | 1 | 0 | 0 | 0 | | |
| POCATELLO | 77 | 43 | 86 | 36 | 60 | 0 | T | -.2 | T | T | 4 | 5.1 | 60 | 80 | 23 | 0 | 0 | 1 | 0 | | |
| IL CHICAGO | 86 | 65 | 91 | 56 | 76 | 11 | T | -.9 | T | .4 | 17 | 20.6 | 78 | 85 | 47 | 2 | 0 | 1 | 0 | | |
| MOLINE | 86 | 64 | 91 | 54 | 75 | 9 | .2 | -.8 | .1 | .7 | 27 | 23.2 | 78 | 88 | 44 | 2 | 0 | 3 | 0 | | |
| PEORIA | 88 | 61 | 93 | 54 | 75 | 8 | .0 | -.9 | .0 | .2 | 10 | 15.2 | 57 | 90 | 41 | 3 | 0 | 0 | 0 | | |
| QUINCY | 85 | 63 | 90 | 53 | 74 | 6 | .0 | -.1 | .0 | .2 | 7 | 14.4 | 49 | 77 | 41 | 1 | 0 | 0 | 0 | | |
| ROCKFORD | 84 | 61 | 89 | 58 | 73 | 9 | .1 | -.8 | .1 | 1.5 | 65 | 25.3 | 93 | 98 | 52 | 0 | 0 | 1 | 0 | | |
| SPRINGFIELD | 87 | 63 | 92 | 56 | 75 | 7 | .0 | -.8 | .0 | .2 | 8 | 26.9 | 103 | 87 | 40 | 1 | 0 | 0 | 0 | | |
| IN EVANSVILLE | 89 | 63 | 93 | 60 | 76 | 4 | .7 | -.1 | .6 | 1.3 | 73 | 23.7 | 71 | 92 | 40 | 5 | 0 | 2 | 1 | | |
| FORT WAYNE | 87 | 60 | 91 | 53 | 73 | 8 | T | -.6 | T | .5 | 32 | 22.0 | 86 | 91 | 42 | 1 | 0 | 0 | 0 | | |
| INDIANAPOLIS | 87 | 62 | 92 | 55 | 75 | 8 | T | -.6 | T | .2 | 13 | 23.7 | 80 | 89 | 39 | 2 | 0 | 1 | 0 | | |
| SOUTH BEND | 84 | 62 | 89 | 54 | 73 | 9 | .5 | -.4 | .5 | 2.1 | 98 | 24.8 | 89 | 87 | 44 | 0 | 0 | 1 | 0 | | |
| IA DES MOINES | 84 | 63 | 91 | 53 | 73 | 9 | .0 | -.9 | .0 | 2.0 | 92 | 22.0 | 83 | 90 | 46 | 1 | 0 | 0 | 0 | | |
| STOUC CITY | 85 | 62 | 95 | 47 | 74 | 10 | T | -.7 | T | 1.7 | 102 | 18.1 | 87 | 88 | 41 | 2 | 0 | 0 | 0 | | |
| WATERLOO | 87 | 63 | 94 | 51 | 75 | 12 | .3 | -.6 | .3 | 1.1 | 55 | 27.2 | 102 | 89 | 41 | 3 | 0 | 1 | 0 | | |
| KS CONCORDIA | 88 | 62 | 95 | 44 | 75 | 7 | T | -.7 | T | .2 | 10 | 13.4 | 57 | 80 | 33 | 3 | 0 | 0 | 0 | | |
| DODGE CITY | 86 | 59 | 90 | 46 | 72 | 3 | .0 | -.5 | .0 | .7 | 61 | 14.4 | 80 | 82 | 33 | 2 | 0 | 0 | 0 | | |
| GOODLAND | 88 | 54 | 94 | 44 | 71 | 6 | .0 | -.4 | .0 | T | 3 | 11.3 | 73 | 84 | 25 | 4 | 0 | 0 | 0 | | |
| TOPEKA | 85 | 62 | 91 | 47 | 73 | 5 | T | -.9 | T | .1 | 5 | 19.6 | 72 | 85 | 41 | 2 | 0 | 1 | 0 | | |
| WICHITA | 88 | 63 | 93 | 53 | 76 | 5 | .0 | -.9 | .0 | .7 | 29 | 16.5 | 61 | 82 | 36 | 3 | 0 | 0 | 0 | | |
| KY BOWLING GREEN | 86 | 60 | 90 | 57 | 73 | 3 | .8 | -.1 | .8 | 1.3 | 60 | 43.3 | 117 | 99 | 52 | 1 | 0 | 1 | 1 | | |
| LEXINGTON | 84 | 62 | 88 | 59 | 73 | 4 | .2 | -.6 | .2 | .8 | 43 | 36.5 | 109 | 92 | 50 | 0 | 0 | 1 | 0 | | |
| LOUISVILLE | 88 | 65 | 91 | 63 | 76 | 6 | 1.2 | .5 | 1.2 | 1.8 | 97 | 25.9 | 78 | 91 | 43 | 1 | 0 | 1 | 1 | | |
| LA BATON ROUGE | 85 | 71 | 89 | 70 | 78 | 0 | 1.9 | .7 | 1.0 | 4.1 | 140 | 49.9 | 109 | 100 | 69 | 0 | 0 | 4 | 2 | | |
| LAKE CHARLES | 87 | 72 | 92 | 70 | 80 | 2 | 1.2 | -.2 | 1.1 | 3.5 | 104 | 32.4 | 83 | 98 | 65 | 4 | 0 | 4 | 1 | | |
| NEW ORLEANS | 88 | 73 | 90 | 67 | 80 | 2 | 3.2 | 1.9 | 3.1 | 5.6 | 166 | 43.6 | 94 | 96 | 53 | 1 | 0 | 3 | 1 | | |
| SHEREVEPORT | 90 | 68 | 93 | 65 | 79 | 3 | T | -.9 | T | T | 2 | 34.9 | 100 | 95 | 46 | 6 | 0 | 1 | 0 | | |

Based on 1961-90 normals.

Weather Data for the Week Ending September 17, 1994

| 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 Sep 1 | PCT. NORMAL SINCE Sep 1 | TOTAL, IN., SINCE Jan 1 | PCT. NORMAL SINCE Jan 1 | AVERAGE | | MAXIMUM | MINIMUM | 90 AND ABOVE | 32 AND BELOW | .01 INCH OR MORE |
| | | | | | | | | | | | | | | | .50 INCH OR MORE | | | | | OR MORE |
| ME CARIBOU | 64 | 45 | 73 | 34 | 54 | 0 | .5 | -.3 | .2 | 1.7 | 84 | 29.3 | 116 | 92 | 55 | 0 | 0 | 0 | 0 | 0 |
| PORTLAND | 73 | 52 | 83 | 45 | 62 | 3 | .2 | -.5 | .1 | 1.6 | 92 | 28.6 | 97 | 95 | 57 | 0 | 0 | 0 | 4 | 0 |
| MD BALTIMORE | 84 | 62 | 91 | 50 | 73 | 3 | .5 | -.3 | .4 | .5 | 24 | 34.2 | 115 | 90 | 51 | 1 | 0 | 0 | 1 | 0 |
| SALISBURY | 84 | 58 | 91 | 48 | 71 | 2 | .1 | -.8 | .1 | .1 | 4 | 29.9 | 89 | 95 | 43 | 1 | 0 | 0 | 1 | 1 |
| MA BOSTON | 75 | 59 | 87 | 54 | 67 | 2 | .6 | -.2 | .5 | 1.2 | 68 | 34.2 | 119 | 83 | 52 | 0 | 0 | 0 | 3 | 0 |
| CHATHAM | 70 | 57 | 76 | 53 | 64 | 1 | .7 | -.9 | .7 | 1.8 | 88 | 34.4 | 112 | 82 | 60 | 0 | 0 | 0 | 2 | 0 |
| MI ALPENA | 77 | 57 | 85 | 38 | 67 | 9 | 1.1 | -.4 | .6 | 1.2 | 63 | 24.7 | 116 | 93 | 65 | 0 | 0 | 0 | 2 | 2 |
| DETROIT | 85 | 61 | 91 | 51 | 73 | 9 | .3 | -.4 | .3 | .4 | 24 | 22.6 | 95 | 90 | 47 | 1 | 0 | 0 | 0 | 0 |
| FLINT | 80 | 59 | 88 | 45 | 70 | 7 | .3 | -.6 | .2 | .3 | 15 | 23.2 | 106 | 96 | 53 | 0 | 0 | 0 | 2 | 2 |
| GRAND RAPIDS | 82 | 60 | 88 | 50 | 71 | 9 | .1 | -.9 | .1 | .3 | 11 | 34.6 | 137 | 87 | 54 | 0 | 0 | 0 | 1 | 0 |
| HOUGHTON LAKE | 79 | 61 | 84 | 42 | 70 | 12 | .8 | .0 | .5 | .8 | 40 | 22.5 | 110 | 90 | 57 | 0 | 0 | 0 | 4 | 0 |
| LANSING | 81 | 59 | 86 | 45 | 70 | 8 | 1.0 | .1 | .6 | 1.1 | 49 | 25.5 | 114 | 95 | 55 | 0 | 0 | 0 | 2 | 1 |
| MARQUETTE | 76 | 57 | 82 | 49 | 67 | 12 | .3 | -.7 | .2 | .6 | 24 | 17.7 | 72 | 96 | 45 | 0 | 0 | 0 | 2 | 3 |
| MUSKOGON | 79 | 63 | 84 | 53 | 71 | 9 | .7 | -.9 | .7 | .4 | 18 | 23.5 | 107 | 90 | 59 | 0 | 0 | 0 | 3 | 0 |
| SAULT ST. MARIE | 69 | 54 | 76 | 43 | 62 | 6 | .8 | -.1 | .5 | .8 | 36 | 21.5 | 93 | 99 | 43 | 0 | 0 | 0 | 3 | 1 |
| MN ALEXANDRIA | 78 | 60 | 84 | 48 | 69 | 10 | .6 | -.1 | .3 | 1.7 | 104 | 13.7 | 67 | 96 | 55 | 0 | 0 | 0 | 4 | 0 |
| DULUTH | 71 | 56 | 78 | 48 | 64 | 9 | 2.6 | 1.7 | .9 | 3.5 | 154 | 23.3 | 102 | 94 | 55 | 0 | 0 | 0 | 6 | 3 |
| INT'L FALLS | 72 | 56 | 78 | 48 | 64 | 10 | 2.0 | 1.2 | 1.4 | 2.9 | 156 | 18.7 | 98 | 97 | 69 | 0 | 0 | 0 | 4 | 1 |
| MINNEAPOLIS | 78 | 62 | 85 | 50 | 70 | 9 | 3.1 | 2.4 | 1.6 | 3.5 | 212 | 21.8 | 97 | 92 | 53 | 0 | 0 | 0 | 4 | 2 |
| ROCHESTER | 80 | 60 | 87 | 48 | 70 | 10 | 1.1 | .2 | .8 | 1.5 | 72 | 25.2 | 108 | 92 | 59 | 0 | 0 | 0 | 3 | 1 |
| MB GREENWOOD | 91 | 68 | 93 | 63 | 79 | 3 | .6 | -.2 | .6 | 1.6 | 86 | 34.3 | 89 | 92 | 49 | 5 | 0 | 0 | 2 | 1 |
| JACKSON | 88 | 67 | 92 | 63 | 78 | 2 | 1.3 | .7 | .8 | 1.8 | 108 | 45.2 | 115 | 93 | 53 | 3 | 0 | 0 | 2 | 2 |
| MERIDIAN | 90 | 69 | 94 | 63 | 79 | 3 | .7 | -.2 | .4 | 1.8 | 88 | 50.5 | 121 | 92 | 54 | 4 | 0 | 0 | 2 | 0 |
| MO CAPE GIRARDEAU | 87 | 63 | 91 | 59 | 75 | 5 | .2 | -.7 | .2 | 1.0 | 46 | 30.0 | 90 | 93 | 43 | 2 | 0 | 0 | 1 | 0 |
| COLUMBIA | 84 | 61 | 89 | 52 | 73 | 5 | T | -.9 | T | .4 | 17 | 27.1 | 98 | 94 | 49 | 0 | 0 | 0 | 0 | 0 |
| KANSAS CITY | 85 | 64 | 91 | 49 | 75 | 6 | T | -1.1 | T | .2 | 5 | 19.6 | 68 | 87 | 45 | 2 | 0 | 0 | 1 | 0 |
| SAINT LOUIS | 88 | 69 | 93 | 62 | 78 | 7 | .0 | -.7 | .0 | .2 | 13 | 24.5 | 90 | 76 | 41 | 3 | 0 | 0 | 0 | 0 |
| SPRINGFIELD | 84 | 63 | 89 | 52 | 73 | 4 | .1 | -1.1 | .1 | 1.0 | 35 | 34.8 | 111 | 87 | 46 | 0 | 0 | 0 | 1 | 0 |
| MT BILLINGS | 76 | 52 | 82 | 50 | 64 | 5 | .8 | -.4 | .7 | .8 | 104 | 9.7 | 82 | 71 | 30 | 0 | 0 | 0 | 2 | 1 |
| GLASGOW | 78 | 51 | 84 | 45 | 65 | 7 | T | -.2 | T | .2 | 25 | 7.6 | 82 | 92 | 40 | 0 | 0 | 0 | 1 | 0 |
| GREAT FALLS | 76 | 43 | 86 | 37 | 60 | 3 | T | -.3 | T | T | 4 | 7.8 | 63 | 92 | 29 | 0 | 0 | 0 | 1 | 0 |
| HAVRE | 80 | 45 | 89 | 42 | 63 | 6 | T | -.3 | T | T | 1 | 5.7 | 62 | 92 | 26 | 0 | 0 | 0 | 0 | 0 |
| HELENA | 78 | 47 | 86 | 42 | 63 | 7 | .0 | -.3 | .0 | T | 4 | 5.7 | 60 | 92 | 25 | 0 | 0 | 0 | 0 | 0 |
| KALISPELL | 72 | 36 | 80 | 29 | 54 | 1 | T | -.3 | T | .5 | 62 | 7.5 | 62 | 96 | 38 | 0 | 2 | 0 | 0 | 0 |
| MILES CITY | 78 | 53 | 82 | 49 | 65 | 5 | 1.0 | .7 | .9 | 1.1 | 146 | 7.3 | 64 | 89 | 32 | 0 | 0 | 0 | 4 | 1 |
| MISSOULA | 76 | 42 | 86 | 39 | 59 | 3 | T | -.3 | T | .3 | 46 | 9.1 | 88 | 91 | 29 | 0 | 0 | 0 | 0 | 0 |
| NE GRAND ISLAND | 88 | 61 | 96 | 43 | 74 | 10 | .0 | -.7 | .0 | T | 0 | 17.3 | 84 | 84 | 34 | 3 | 0 | 0 | 0 | 0 |
| LINCOLN | 86 | 62 | 93 | 47 | 74 | 8 | T | -.8 | T | .1 | 2 | 16.0 | 71 | 84 | 37 | 2 | 0 | 0 | 0 | 0 |
| NORFOLK | 86 | 62 | 94 | 44 | 74 | 10 | T | -.6 | T | .8 | 58 | 23.6 | 114 | 83 | 37 | 3 | 0 | 0 | 0 | 0 |
| NORTH PLATTE | 86 | 55 | 94 | 38 | 70 | 8 | .1 | -.3 | .1 | .4 | 44 | 14.6 | 88 | 81 | 31 | 4 | 0 | 0 | 1 | 0 |
| OMAHA | 85 | 63 | 93 | 48 | 74 | 8 | T | -.9 | T | 3.2 | 147 | 24.1 | 102 | 89 | 45 | 2 | 0 | 0 | 1 | 0 |
| SCOTTSBLUFF | 84 | 51 | 93 | 43 | 68 | 6 | .1 | -.2 | .1 | .1 | 12 | 11.0 | 86 | 84 | 21 | 3 | 0 | 0 | 1 | 0 |
| VALENTINE | 83 | 54 | 95 | 37 | 69 | 5 | T | -.6 | T | T | 1 | 15.8 | 84 | 78 | 30 | 3 | 0 | 0 | 0 | 0 |
| NV RLY | 72 | 34 | 79 | 29 | 53 | -4 | .0 | -.3 | .0 | T | 0 | 6.0 | 81 | 76 | 17 | 0 | 4 | 0 | 0 | 0 |
| LAS VEGAS | 90 | 66 | 96 | 60 | 78 | -3 | .0 | -.1 | .0 | .0 | 0 | .9 | 29 | 50 | 10 | 4 | 0 | 0 | 0 | 0 |
| RENO | 77 | 44 | 85 | 39 | 61 | 0 | T | -.1 | T | T | 0 | 3.2 | 62 | 85 | 21 | 0 | 0 | 0 | 0 | 0 |
| WINNEMOCCA | 77 | 37 | 87 | 31 | 57 | -3 | T | -.1 | T | T | 0 | 4.8 | 85 | 83 | 17 | 0 | 1 | 0 | 1 | 0 |
| NH CONCORD | 75 | 50 | 83 | 41 | 62 | 3 | .4 | -.3 | .2 | .9 | 57 | 25.8 | 102 | 96 | 50 | 0 | 0 | 0 | 4 | 0 |
| NJ ATLANTIC CITY | 81 | 56 | 89 | 42 | 68 | 2 | .5 | -.2 | .5 | .5 | 30 | 33.1 | 113 | 91 | 50 | 0 | 0 | 0 | 1 | 1 |
| NM ALBUQUERQUE | 81 | 58 | 86 | 51 | 70 | 0 | .6 | -.4 | .6 | 1.2 | 197 | 7.6 | 115 | 75 | 28 | 0 | 0 | 0 | 3 | 1 |
| CLOVIS | 85 | 59 | 88 | 55 | 72 | 3 | .2 | -.4 | .1 | .2 | 15 | 8.8 | 62 | 84 | 28 | 0 | 0 | 0 | 2 | 0 |
| ROSWELL | 88 | 61 | 91 | 54 | 75 | 2 | .2 | -.3 | .2 | .5 | 41 | 6.0 | 61 | 83 | 25 | 2 | 0 | 0 | 1 | 0 |
| NY ALBANY | 76 | 54 | 81 | 44 | 65 | 3 | .1 | -.6 | .0 | .2 | 14 | 27.9 | 108 | 91 | 57 | 0 | 0 | 0 | 4 | 0 |
| BINGHAMTON | 72 | 54 | 80 | 44 | 63 | 3 | .6 | -.2 | .3 | .6 | 30 | 33.6 | 127 | 96 | 65 | 0 | 0 | 0 | 4 | 0 |
| BUFFALO | 75 | 60 | 82 | 47 | 67 | 5 | .2 | -.6 | .2 | .4 | 17 | 25.3 | 95 | 87 | 57 | 0 | 0 | 0 | 3 | 0 |
| NEW YORK | 80 | 65 | 90 | 55 | 72 | 4 | .6 | -.2 | .6 | .7 | 37 | 33.8 | 111 | 77 | 49 | 1 | 0 | 0 | 2 | 1 |
| ROCHESTER | 77 | 57 | 86 | 45 | 67 | 4 | .5 | -.2 | .5 | 1.7 | 99 | 21.7 | 96 | 90 | 55 | 0 | 0 | 0 | 1 | 1 |
| SYRACUSE | 74 | 56 | 85 | 48 | 65 | 2 | .2 | -.7 | .1 | .4 | 20 | 29.4 | 108 | 93 | 61 | 0 | 0 | 0 | 2 | 0 |
| NC ASHEVILLE | 81 | 54 | 82 | 50 | 68 | 1 | .6 | -.4 | .5 | 2.3 | 90 | 44.0 | 107 | 99 | 53 | 0 | 0 | 0 | 2 | 1 |
| CHARLOTTE | 85 | 65 | 87 | 61 | 75 | 2 | T | -.8 | T | .5 | 26 | 28.4 | 90 | 88 | 46 | 0 | 0 | 0 | 0 | 0 |
| GREENSBORO | 83 | 60 | 86 | 55 | 71 | 1 | .2 | -.6 | .2 | 1.0 | 50 | 29.7 | 95 | 98 | 52 | 0 | 0 | 0 | 1 | 0 |
| HATTERAS | 84 | 66 | 89 | 57 | 75 | 0 | .0 | -1.2 | .0 | 2.9 | 94 | 42.1 | 107 | 90 | 38 | 0 | 0 | 0 | 0 | 0 |
| NEW BERN | 88 | 64 | 93 | 58 | 76 | 2 | .0 | -1.3 | .0 | 2.3 | 73 | 28.5 | 67 | 95 | 44 | 2 | 0 | 0 | 0 | 0 |
| RALEIGH | 84 | 61 | 87 | 58 | 73 | 1 | .1 | -.7 | .1 | 1.8 | 97 | 29.0 | 93 | 94 | 37 | 0 | 0 | 0 | 1 | 0 |
| WILMINGTON | 87 | 64 | 90 | 59 | 76 | 1 | T | -1.7 | T | 1.1 | 27 | 36.7 | 84 | 95 | 45 | 3 | 0 | 0 | 0 | 0 |
| MD BISMARCK | 75 | 54 | 85 | 45 | 65 | 7 | 4.5 | 4.2 | 4.5 | 4.9 | 542 | 13.6 | 105 | 93 | 58 | 0 | 0 | 0 | 3 | 1 |
| FARGO | 77 | 57 | 82 | 46 | 67 | 9 | 1.6 | 1.1 | .5 | 1.8 | 150 | 18.6 | 119 | 95 | 66 | 0 | 0 | 0 | 6 | 1 |
| GRAND FORKS | 74 | 55 | 84 | 50 | 64 | 8 | .9 | -.3 | .6 | 1.3 | 96 | 17.7 | 119 | 94 | 65 | 0 | 0 | 0 | 3 | 1 |
| WILLISTON | 76 | 50 | 84 | 39 | 63 | 6 | .3 | -.1 | .2 | .4 | 49 | 12.6 | 111 | 92 | 44 | 0 | 0 | 0 | 4 | 0 |
| OK AARON-CANTON | 80 | 58 | 85 | 46 | 69 | 4 | .9 | -.1 | .7 | 1.2 | 59 | 32.7 | 121 | 91 | 52 | 0 | 0 | 0 | 2 | 1 |
| CINCINNATI | 84 | 62 | 89 | 58 | 73 | 5 | .1 | -.6 | .1 | .2 | 11 | 30.7 | 100 | 91 | 47 | 0 | 0 | 0 | 1 | 0 |
| CLEVELAND | 81 | 58 | 87 | 43 | 69 | 5 | .7 | -.2 | .4 | .7 | 33 | 21.9 | 83 | 89 | 50 | 0 | 0 | 0 | 3 | 0 |
| COLUMBUS | 85 | 58 | 90 | 48 | 71 | 7 | .3 | -.5 | .3 | .4 | 22 | 24.3 | 87 | 96 | 39 | 2 | 0 | 0 | 1 | 0 |
| DAYTON | 85 | 60 | 91 | 49 | 73 | 6 | .5 | -.1 | .5 | .7 | 48 | 27.3 | 101 | 85 | 42 | 1 | 0 | 0 | 1 | 0 |

Based on 1961-90 normals.

Weather Data for the Week Ending September 17, 1994

| 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 Sep 1 | PCT. NORMAL SINCE Sep 1 | TOTAL IN, SINCE Jan 1 | | PCT. NORMAL SINCE Jan 1 | AVERAGE | MAXIMUM | MINIMUM | TEMP. °F | | PRECIP. |
| | | | | | | | | | | | | | 90 AND ABOVE | | | | | 32 AND BELOW | .01 INCH OR MORE | .50 INCH OR MORE |
| TOLEDO | 85 | 58 | 90 | 46 | 72 | 8 | .2 | -.5 | .2 | .2 | 12 | 21.7 | 91 | 93 | 42 | 1 | 0 | 1 | 0 | |
| YOUNGSTOWN | 78 | 55 | 84 | 39 | 67 | 4 | .5 | -.4 | .3 | .7 | 33 | 27.9 | 103 | 92 | 51 | 0 | 0 | 2 | 0 | |
| OK OKLAHOMA CITY | 86 | 63 | 90 | 54 | 75 | 1 | .6 | -.3 | .6 | 1.2 | 56 | 17.9 | 72 | 95 | 45 | 1 | 0 | 1 | 1 | |
| TULSA | 86 | 66 | 90 | 55 | 76 | 2 | 2.1 | -.9 | 2.0 | 2.9 | 110 | 36.7 | 124 | 91 | 46 | 2 | 0 | 2 | 1 | |
| OR ASTORIA | 70 | 53 | 85 | 47 | 61 | 2 | .2 | -.6 | .2 | 2.4 | 176 | 38.5 | 100 | 97 | 66 | 0 | 0 | 1 | 0 | |
| BURNS | 73 | 35 | 83 | 28 | 54 | -1 | .2 | -.1 | .2 | .2 | 12 | 3.0 | 45 | 74 | 21 | 0 | 3 | 1 | 0 | |
| MEDFORD | 85 | 47 | 98 | 42 | 66 | 0 | .5 | -.3 | .5 | .2 | 41 | 5.3 | 51 | 88 | 24 | 3 | 0 | 0 | 0 | |
| PENDLETON | 78 | 50 | 88 | 44 | 64 | 1 | .2 | -.1 | .2 | .1 | 42 | 8.1 | 105 | 75 | 26 | 0 | 0 | 0 | 0 | |
| PORTLAND | 80 | 55 | 92 | 49 | 67 | 3 | .0 | -.4 | .0 | 1.1 | 119 | 15.7 | 74 | 91 | 34 | 1 | 0 | 0 | 0 | |
| SALEM | 80 | 49 | 93 | 44 | 65 | 3 | .0 | -.4 | .0 | 1.4 | 187 | 17.5 | 78 | 95 | 34 | 1 | 0 | 0 | 0 | |
| PA ALLENTOWN | 80 | 58 | 87 | 45 | 69 | 4 | .8 | -.1 | .8 | .9 | 39 | 38.4 | 121 | 91 | 55 | 0 | 0 | 1 | 1 | |
| ERIE | 76 | 61 | 84 | 48 | 68 | 4 | 1.3 | -.8 | .2 | .5 | 21 | 29.0 | 102 | 87 | 56 | 0 | 0 | 3 | 0 | |
| HARRISBURG | 78 | 59 | 84 | 47 | 69 | 2 | .4 | -.4 | .4 | .5 | 26 | 36.1 | 122 | 92 | 58 | 0 | 0 | 1 | 0 | |
| PHILADELPHIA | 83 | 62 | 89 | 53 | 73 | 6 | .1 | -.9 | .1 | .1 | 5 | 37.4 | 112 | 78 | 48 | 0 | 0 | 1 | 0 | |
| PITTSBURGH | 80 | 58 | 86 | 44 | 69 | 4 | 1.5 | -.8 | 1.0 | 2.2 | 126 | 33.5 | 122 | 86 | 54 | 0 | 0 | 3 | 1 | |
| SCRANTON | 74 | 56 | 81 | 41 | 65 | 2 | 1.3 | -.6 | 1.3 | 2.4 | 122 | 31.8 | 120 | 96 | 63 | 0 | 0 | 1 | 1 | |
| RI PROVIDENCE | 74 | 56 | 82 | 49 | 65 | 1 | .1 | -.7 | .1 | .7 | 34 | 31.0 | 98 | 87 | 55 | 0 | 0 | 2 | 0 | |
| SC CHARLESTON | 87 | 68 | 89 | 64 | 78 | 1 | .5 | -.7 | .5 | 3.9 | 130 | 44.8 | 109 | 94 | 54 | 0 | 0 | 1 | 0 | |
| COLUMBIA | 89 | 63 | 91 | 61 | 76 | 2 | .2 | -.9 | .2 | .3 | 12 | 35.4 | 91 | 95 | 42 | 2 | 0 | 0 | 0 | |
| FLORENCE | 91 | 63 | 96 | 61 | 77 | 2 | .2 | -.8 | .2 | .2 | 11 | 29.1 | 85 | 97 | 44 | 5 | 0 | 1 | 0 | |
| GREENVILLE | 85 | 62 | 87 | 58 | 74 | 2 | .3 | -.7 | .3 | 1.3 | 59 | 40.0 | 106 | 96 | 50 | 0 | 0 | 1 | 0 | |
| SD ABERDEEN | 79 | 58 | 85 | 41 | 69 | 9 | .8 | -.3 | .6 | 1.3 | 111 | 15.9 | 90 | 95 | 55 | 0 | 0 | 2 | 1 | |
| HURON | 82 | 59 | 89 | 42 | 70 | 9 | .1 | -.3 | .1 | 1.8 | 181 | 17.5 | 105 | 91 | 49 | 0 | 0 | 3 | 0 | |
| RAPID CITY | 81 | 53 | 88 | 45 | 67 | 7 | .1 | -.2 | .1 | .2 | 33 | 6.7 | 48 | 82 | 31 | 0 | 0 | 3 | 0 | |
| SIOUX FALLS | 84 | 62 | 91 | 46 | 73 | 12 | .2 | -.7 | .2 | 2.4 | 134 | 19.2 | 101 | 86 | 49 | 2 | 0 | 0 | 0 | |
| TN CHATTANOOGA | 87 | 63 | 88 | 58 | 75 | 2 | .7 | -.3 | .5 | 1.3 | 56 | 59.4 | 153 | 100 | 50 | 0 | 0 | 2 | 0 | |
| KNOXVILLE | 86 | 59 | 89 | 54 | 72 | 2 | .8 | -.0 | .8 | .8 | 48 | 55.6 | 160 | 99 | 49 | 0 | 0 | 2 | 1 | |
| MEMPHIS | 89 | 68 | 93 | 65 | 78 | 4 | .4 | -.4 | .3 | .9 | 43 | 35.7 | 97 | 89 | 44 | 4 | 0 | 2 | 0 | |
| NASHVILLE | 87 | 63 | 89 | 59 | 75 | 3 | .5 | -.4 | .3 | 1.2 | 57 | 47.1 | 136 | 93 | 48 | 0 | 0 | 2 | 0 | |
| TX ABILENE | 82 | 64 | 86 | 55 | 73 | -3 | .5 | -.3 | .4 | 3.7 | 201 | 20.8 | 116 | 95 | 53 | 0 | 0 | 2 | 0 | |
| AMARILLO | 83 | 58 | 86 | 51 | 70 | 1 | 1.4 | -.9 | 1.4 | 1.9 | 150 | 15.9 | 97 | 91 | 39 | 0 | 0 | 1 | 1 | |
| AUSTIN | 88 | 72 | 90 | 70 | 80 | -1 | 1.3 | -.8 | .8 | 5.6 | 320 | 25.8 | 114 | 90 | 56 | 1 | 0 | 2 | 2 | |
| BEAUMONT | 88 | 72 | 90 | 70 | 80 | 1 | .8 | -.8 | .5 | 5.4 | 146 | 50.2 | 124 | 98 | 60 | 2 | 0 | 3 | 0 | |
| BROWNSVILLE | 90 | 73 | 91 | 69 | 81 | -1 | .1 | -1.4 | .1 | 1.8 | 53 | 14.9 | 80 | 95 | 53 | 5 | 0 | 2 | 0 | |
| CORPUS CHRISTI | 89 | 74 | 92 | 72 | 81 | 0 | 3.6 | -.2 | 1.7 | 6.7 | 213 | 23.4 | 107 | 93 | 37 | 1 | 0 | 5 | 3 | |
| DEL RIO | 90 | 71 | 94 | 68 | 80 | 1 | 1.0 | -.4 | .8 | 1.2 | 75 | 16.5 | 91 | 87 | 46 | 4 | 0 | 4 | 1 | |
| EL PASO | 92 | 65 | 96 | 60 | 79 | 4 | .2 | -.2 | .2 | .2 | 3 | 3.0 | 46 | 56 | 20 | 5 | 0 | 0 | 0 | |
| FORT WORTH | 88 | 70 | 91 | 65 | 79 | 3 | .2 | -1.1 | .2 | 1.3 | 51 | 26.7 | 101 | 90 | 55 | 2 | 0 | 0 | 0 | |
| GALVESTON | 87 | 76 | 92 | 72 | 82 | 1 | 1.8 | -.3 | .8 | 4.4 | 126 | 20.9 | 69 | 91 | 56 | 1 | 0 | 5 | 1 | |
| HOUSTON | 90 | 72 | 92 | 70 | 81 | 2 | .2 | -1.2 | .2 | 1.1 | 35 | 26.0 | 70 | 99 | 54 | 5 | 0 | 1 | 0 | |
| LUBBOCK | 87 | 62 | 91 | 54 | 74 | 3 | .8 | -.2 | .5 | 1.1 | 72 | 11.6 | 81 | 94 | 42 | 2 | 0 | 2 | 0 | |
| MIDLAND | 85 | 62 | 87 | 51 | 74 | -1 | .2 | -.8 | .2 | .3 | 14 | 7.9 | 70 | 94 | 42 | 0 | 0 | 0 | 0 | |
| SAN ANGELO | 84 | 65 | 90 | 56 | 75 | -1 | .8 | -.0 | .8 | 3.0 | 155 | 11.9 | 81 | 95 | 52 | 1 | 0 | 1 | 1 | |
| SAN ANTONIO | 88 | 71 | 91 | 63 | 79 | 0 | 1.4 | -.6 | .7 | 5.5 | 292 | 26.7 | 120 | 91 | 58 | 3 | 0 | 5 | 1 | |
| VICTORIA | 90 | 73 | 91 | 68 | 81 | 2 | .3 | -1.3 | .2 | 2.9 | 81 | 27.9 | 88 | 96 | 56 | 4 | 0 | 3 | 0 | |
| WACO | 91 | 68 | 93 | 62 | 80 | 1 | .2 | -.8 | .2 | .4 | 19 | 20.1 | 89 | 92 | 50 | 6 | 0 | 1 | 0 | |
| WICHITA FALLS | 88 | 66 | 91 | 55 | 77 | 1 | .2 | -1.0 | .2 | 1.5 | 63 | 8.0 | 34 | 90 | 42 | 2 | 0 | 0 | 0 | |
| UT CEDAR CITY | 79 | 50 | 83 | 40 | 64 | 1 | .0 | -.2 | .0 | .2 | 3 | 4.7 | 56 | 45 | 15 | 0 | 0 | 0 | 0 | |
| SALT LAKE CITY | 82 | 54 | 89 | 48 | 68 | 2 | .2 | -.3 | .2 | .2 | 1 | 8.4 | 73 | 81 | 28 | 0 | 0 | 0 | 0 | |
| VT BURLINGTON | 73 | 53 | 83 | 47 | 63 | 4 | .8 | -.0 | .6 | 1.0 | 51 | 28.8 | 116 | 90 | 56 | 0 | 0 | 5 | 1 | |
| VA NORFOLK | 86 | 64 | 92 | 57 | 75 | 3 | .2 | -.9 | .2 | 1.5 | 64 | 42.9 | 127 | 89 | 47 | 2 | 0 | 1 | 0 | |
| RICHMOND | 88 | 58 | 94 | 51 | 73 | 2 | .5 | -.3 | .5 | .5 | 26 | 32.8 | 103 | 91 | 31 | 3 | 0 | 1 | 0 | |
| ROANOKE | 85 | 56 | 91 | 50 | 70 | 2 | .5 | -.3 | .5 | .5 | 27 | 36.7 | 124 | 95 | 44 | 1 | 0 | 1 | 1 | |
| WA QUILLAYUTE | 67 | 52 | 81 | 45 | 60 | 3 | 1.8 | -.7 | .9 | 4.0 | 180 | 59.9 | 97 | 99 | 73 | 0 | 0 | 3 | 1 | |
| SEATTLE-TACOMA | 74 | 55 | 81 | 49 | 64 | 3 | .2 | -.3 | .2 | 1.7 | 178 | 17.4 | 82 | 93 | 48 | 0 | 0 | 1 | 0 | |
| SPOKANE | 75 | 45 | 88 | 37 | 60 | 1 | .2 | -.2 | .2 | .5 | 112 | 6.7 | 63 | 89 | 28 | 0 | 0 | 0 | 0 | |
| YAKIMA | 79 | 44 | 86 | 40 | 62 | 0 | .2 | -.1 | .2 | .1 | 41 | 4.4 | 89 | 93 | 31 | 0 | 0 | 1 | 0 | |
| WV BECKLEY | 76 | 53 | 81 | 44 | 64 | 1 | .5 | -.3 | .5 | 1.1 | 55 | 42.2 | 138 | 94 | 51 | 0 | 0 | 1 | 1 | |
| CHARLESTON | 81 | 57 | 87 | 48 | 69 | 1 | .3 | -.4 | .3 | .7 | 37 | 42.5 | 136 | 98 | 52 | 0 | 0 | 1 | 0 | |
| HUNTINGTON | 84 | 57 | 89 | 48 | 70 | 4 | .4 | -.3 | .4 | .5 | 27 | 37.7 | 118 | 97 | 43 | 0 | 0 | 1 | 0 | |
| PARKERSBURG | 81 | 57 | 87 | 47 | 69 | 1 | .6 | -.1 | .6 | .6 | 35 | 40.1 | 129 | 92 | 49 | 0 | 0 | 1 | 1 | |
| WI GREEN BAY | 82 | 62 | 88 | 52 | 72 | 13 | .4 | -.5 | .3 | .4 | 20 | 23.2 | 108 | 94 | 56 | 0 | 0 | 3 | 0 | |
| LACROSSE | 83 | 64 | 92 | 58 | 74 | 12 | -.1 | -.1 | -.1 | -.1 | -.1 | -.1 | 100 | 95 | 54 | 1 | 0 | -.1 | -.1 | |
| MADISON | 83 | 63 | 88 | 56 | 73 | 11 | 1.9 | 1.0 | 1.0 | 4.6 | 207 | 27.5 | 112 | 89 | 53 | 0 | 0 | 5 | 2 | |
| MILWAUKEE | 84 | 66 | 92 | 60 | 75 | 13 | .1 | -.8 | .0 | .2 | 10 | 20.6 | 85 | 90 | 54 | 2 | 0 | 3 | 0 | |
| WAUBAU | 80 | 61 | 85 | 53 | 71 | 12 | 1.0 | -.0 | .7 | 1.1 | 42 | 15.8 | 63 | 94 | 53 | 0 | 0 | 4 | 1 | |
| WY CASPER | 79 | 48 | 87 | 38 | 63 | 5 | .1 | -.1 | .1 | .2 | 32 | 6.8 | 70 | 86 | 27 | 0 | 0 | 3 | 0 | |
| CHEYENNE | 76 | 48 | 83 | 38 | 62 | 4 | .2 | -.1 | .2 | .3 | 36 | 11.0 | 90 | 82 | 26 | 0 | 0 | 2 | 0 | |
| LANDER | 74 | 48 | 83 | 43 | 61 | 2 | .1 | -.1 | .1 | .3 | 51 | 5.5 | 55 | 74 | 27 | 0 | 0 | 2 | 0 | |
| SHERIDAN | 78 | 49 | 86 | 44 | 64 | 6 | .7 | -.4 | .3 | .7 | 92 | 10.6 | 95 | 80 | 32 | 0 | 0 | 3 | 0 | |

Based on 1961-90 normals.

National Agricultural Summary

September 12 - 18, 1994

HIGHLIGHTS: Light rains in the Pacific Northwest did little to ease the soil moisture shortages or permit some small grain seedings. Dry weather throughout the Western States has slowed winter wheat seedings and caused some fields to be reseeded. Scattered thunderstorms in the Rocky Mountain region could not restore the sparse soil moisture supplies that has delayed the emergence of winter wheat. Clear weather in the upper Great Plains allowed the spring wheat harvest to be near completion ahead of normal. Warm weather in the Corn Belt accelerated crop maturity, and producers reported another week of warm weather will mature the corn crop past the frost damage point. Storm systems in the upper Mississippi Valley and Great Lakes region caused some flooding and brought fieldwork to a standstill. Heavy rains in the southern Great Plains delayed harvest activity but benefited early-planted winter wheat fields. A late-week storm system in the Delta region slowed the rice harvest. Insect and disease problems remained moderate in the Southern States.

Spring wheat harvested was 94 percent(%) complete, up 4 percentage points from last week and 8 percentage points ahead of the 5-year average. North Dakota's wheat harvest advanced 6 points from last week despite rain delays and some flooding, and was 3 points ahead of the average.

Winter wheat planted at 26% was up 13 points from the previous week and 5 points ahead of the average. Rains in the southern Plains boosted early-emerged wheat, but dry conditions in the Western States delayed seeding and produced spotty emergence that will require some reseeding.

Corn development continued to outpace last year and the average in the 17 major producing States. Ninety-five percent of the corn crop was in the dent stage, 11 points ahead of the average. Wisconsin's corn dented increased by 17 points from last week and was 17 points ahead of the average. The corn crop was 58% mature, up 25 points from last week and 16 points ahead of the average. Missouri corn rated as mature was 21 points ahead of the average, and the State's corn condition continued to improve. Corn harvested for the 17 major producing States was up 3 points from last week and was equal to the average. Illinois and Indiana were behind the average for corn harvested by 5 and 4 points, respectively.

Cotton condition was up from last week for the 14 major producing States, with 61% of the cotton crop rated as good to excellent compared with 55% for last week. The cotton condition for Oklahoma and Texas was mostly fair. Bolls opening were 65% complete, up 14 points from last week and 10 points ahead of the average. Texas reported bolls opening at 50%, up 11 points from last week and 12 points ahead of the average. Defoliation and harvest activity in the southern Great Plains was stalled due to heavy rains. California reports

defoliation active in the San Joaquin Valley, while the desert harvest was beginning with defoliation nearing completion.

Sorghum condition in the 12 States was up from last week, with 60% of the sorghum reported as good to excellent. New Mexico sorghum condition was mostly poor, down from last week. Grain sorghum turning color at 92% finished the year 14 points ahead of the average for the 12 major producing States. Sixty percent of the sorghum crop was mature, up 17 points from the previous week and 16 points ahead of the average. Grain sorghum harvested at 31% was up 5 points from last week and 3 points ahead of the average. Sorghum harvested in Louisiana was 27 points behind the average, while Arkansas was 27 points ahead of the average. Wind damage and lodging was reported in some Kansas fields.

Rice harvested was 50% complete, up 14 points from last week and 10 points ahead of the average for the five major producing States. Rice condition was mostly good, up slightly from last week. In Arkansas, rice harvested was 50% complete, up 24 points from a week ago and 25 points ahead of the average. Mississippi rice harvested was 18 points ahead of the average, while Louisiana reported some harvesting delay due to lack of storage capacity. California reported stubble burning where weather conditions allowed.

Soybeans were fair to good with 53% of the acreage dropping leaves, up 30 points from last week and 20 points ahead of the average. Warm, dry weather increased soybean maturity, with some fields of early varieties harvested in the Midwest. The percentage of soybeans dropping leaves was more than 40 points ahead of the average in Iowa. Illinois soybeans dropping leaves were 20 points ahead of the average, while Ohio was 24 points ahead of the average. Arkansas producers were irrigating some soybean fields.

Crop Condition

for the Week Ending September 18, 1994

SORGHUM

| State | VP | P | F | G | EX |
|-----------|----|----|----|----|----|
| AR | 0 | 0 | 31 | 54 | 15 |
| CO | 0 | 20 | 28 | 51 | 1 |
| IL | 0 | 3 | 31 | 63 | 3 |
| KS | 0 | 1 | 27 | 68 | 4 |
| LA | 0 | 1 | 46 | 53 | 0 |
| MS | 0 | 0 | 33 | 63 | 4 |
| MO | 0 | 4 | 42 | 49 | 5 |
| NE | 0 | 1 | 11 | 74 | 14 |
| NM | 0 | 50 | 31 | 19 | 0 |
| OK | 0 | 0 | 31 | 69 | 0 |
| SD | 0 | 0 | 9 | 69 | 22 |
| TX | 1 | 4 | 60 | 33 | 2 |
| 12 State | 0 | 3 | 37 | 55 | 5 |
| Prev Week | 1 | 5 | 33 | 56 | 5 |
| Prev Year | 0 | 6 | 32 | 51 | 11 |

CORN

| State | VP | P | F | G | EX |
|-----------|----|----|----|----|----|
| CO | 2 | 4 | 27 | 43 | 24 |
| GA | 0 | 0 | 10 | 75 | 15 |
| IL | 0 | 1 | 21 | 59 | 19 |
| IN | 0 | 2 | 34 | 58 | 6 |
| IA | 0 | 0 | 2 | 65 | 33 |
| KS | 0 | 1 | 16 | 75 | 8 |
| KY | 0 | 1 | 14 | 65 | 20 |
| MI | 3 | 7 | 20 | 50 | 20 |
| MN | 2 | 3 | 12 | 64 | 19 |
| MO | 1 | 6 | 42 | 49 | 2 |
| NE | 0 | 1 | 9 | 74 | 16 |
| NC | 0 | 12 | 27 | 59 | 2 |
| OH | 1 | 4 | 21 | 56 | 18 |
| PA | 0 | 3 | 15 | 47 | 35 |
| SD | 0 | 0 | 8 | 56 | 36 |
| TX | 0 | 0 | 18 | 75 | 7 |
| WI | 0 | 0 | 2 | 57 | 41 |
| 17 State | 0 | 2 | 15 | 62 | 21 |
| Prev Week | 0 | 2 | 14 | 63 | 21 |
| Prev Year | 3 | 12 | 35 | 44 | 6 |

COTTON

| State | VP | P | F | G | EX |
|-----------|----|----|----|-----|----|
| AL | 0 | 3 | 22 | 75 | 0 |
| AZ | 0 | 0 | 10 | 80 | 10 |
| AR | 0 | 0 | 0 | 100 | 0 |
| CA | 0 | 0 | 0 | 75 | 25 |
| GA | 0 | 0 | 9 | 82 | 9 |
| LA | 0 | 0 | 13 | 77 | 10 |
| MS | 0 | 0 | 33 | 65 | 2 |
| MO | 0 | 0 | 40 | 60 | 0 |
| NM | 0 | 10 | 20 | 50 | 20 |
| NC | 0 | 0 | 14 | 80 | 6 |
| OK | 0 | 8 | 60 | 32 | 0 |
| SC | 0 | 0 | 2 | 94 | 4 |
| TN | 0 | 0 | 0 | 99 | 1 |
| TX | 2 | 13 | 56 | 26 | 3 |
| 14 State | 1 | 6 | 32 | 56 | 5 |
| Prev Week | 1 | 6 | 38 | 49 | 6 |
| Prev Year | 1 | 10 | 43 | 43 | 3 |

RICE

| State | VP | P | F | G | EX |
|-----------|----|---|----|----|----|
| AR | 0 | 0 | 5 | 89 | 6 |
| CA | 0 | 0 | 0 | 80 | 20 |
| LA | 0 | 0 | 42 | 58 | 0 |
| MS | 0 | 0 | 0 | 59 | 41 |
| TX | 0 | 0 | 0 | 67 | 33 |
| 5 State | 0 | 0 | 10 | 77 | 13 |
| Prev Week | 0 | 0 | 8 | 82 | 10 |
| Prev Year | 0 | 0 | 38 | 61 | 1 |

SOYBEANS

| State | VP | P | F | G | EX |
|-----------|----|----|----|----|----|
| AL | 0 | 0 | 10 | 83 | 7 |
| AR | 0 | 0 | 40 | 60 | 0 |
| GA | 0 | 0 | 9 | 80 | 11 |
| IL | 0 | 2 | 26 | 61 | 11 |
| IN | 0 | 2 | 32 | 62 | 4 |
| IA | 0 | 0 | 3 | 64 | 33 |
| KS | 0 | 2 | 32 | 60 | 6 |
| KY | 0 | 0 | 33 | 57 | 10 |
| LA | 0 | 4 | 34 | 62 | 0 |
| MI | 2 | 8 | 20 | 55 | 15 |
| MN | 2 | 2 | 24 | 61 | 11 |
| MS | 0 | 0 | 9 | 71 | 20 |
| MO | 0 | 6 | 49 | 42 | 3 |
| NE | 0 | 2 | 14 | 73 | 11 |
| NC | 0 | 0 | 22 | 74 | 4 |
| OH | 1 | 4 | 20 | 55 | 20 |
| SC | 0 | 0 | 17 | 76 | 7 |
| SD | 0 | 0 | 3 | 63 | 34 |
| TN | 0 | 0 | 6 | 90 | 4 |
| 19 State | 0 | 2 | 23 | 62 | 13 |
| Prev Week | 0 | 3 | 23 | 62 | 12 |
| Prev Year | 3 | 11 | 41 | 40 | 5 |

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

Crop Progress

for the Week Ending Sept. 18, 1994

GRAIN SORGHUM COLORING

| | Current | Last Wk | 1993 | Avg. |
|-----------|---------|---------|------|------|
| AR | 100 | 98 | 97 | 92 |
| CO | 63 | 55 | 48 | 59 |
| IL | 93 | 89 | 80 | 78 |
| KS | 97 | 85 | 80 | 65 |
| LA | 100 | 100 | 98 | 97 |
| MS | 100 | 100 | 97 | 96 |
| MO | 94 | 89 | 77 | 82 |
| NE | 97 | 95 | 71 | 81 |
| NM | 51 | 45 | 58 | 62 |
| OK | 84 | 77 | 74 | 84 |
| SD | 84 | 77 | 48 | 71 |
| TX | 90 | 87 | 91 | 87 |
| 12 States | 92 | 86 | 81 | 78 |

GRAIN SORGHUM MATURE

| | Current | Last Wk | 1993 | Avg. |
|-----------|---------|---------|------|------|
| AR | 93 | 84 | 88 | 78 |
| CO | 18 | 5 | 20 | 21 |
| IL | 56 | 26 | 20 | 36 |
| KS | 45 | 25 | 15 | 15 |
| LA | 97 | 88 | 89 | 91 |
| MS | 97 | 92 | 79 | 82 |
| MO | 54 | 37 | 37 | 42 |
| NE | 67 | 24 | 6 | 29 |
| NM | 16 | 15 | 8 | 7 |
| OK | 21 | 20 | 22 | 19 |
| SD | 45 | 21 | 11 | 33 |
| TX | 77 | 73 | 78 | 78 |
| 12 States | 60 | 43 | 39 | 44 |

GRAIN SORGHUM HARVESTED

| | Current | Last Wk | 1993 | Avg. |
|-----------|---------|---------|------|------|
| AR | 70 | 56 | 40 | 43 |
| CO | 0 | 0 | 0 | 0 |
| IL | 3 | 0 | 0 | 4 |
| KS | 10 | 4 | 2 | 4 |
| LA | 49 | 39 | 66 | 76 |
| MS | 72 | 58 | 47 | 52 |
| MO | 20 | 6 | 12 | 12 |
| NE | 4 | 0 | 0 | 3 |
| NM | 3 | 0 | 1 | 1 |
| OK | 6 | 4 | 9 | 4 |
| SD | 2 | 0 | 0 | 4 |
| TX | 68 | 65 | 70 | 66 |
| 12 States | 31 | 26 | 28 | 28 |

These 12 States produced 98% of the 1993 grain sorghum crop.

These 12 States produced 98% of the 1993 grain sorghum crop.

These 12 States produced 98% of the 1993 grain sorghum crop.

RICE HARVESTED

| | Current | Last Wk | 1993 | Avg. |
|----------|---------|---------|------|------|
| AR | 50 | 26 | 20 | 25 |
| CA | 5 | 1 | 5 | 5 |
| LA | 67 | 60 | 75 | 82 |
| MS | 50 | 35 | 24 | 32 |
| TX | 88 | 83 | 71 | 87 |
| 5 States | 50 | 36 | 34 | 40 |

These 5 States produced 96% of the 1993 rice crop.

SPRING WHEAT HARVESTED

| | Current | Last Wk | 1993 | Avg. |
|----------|---------|---------|------|------|
| ID | 99 | 98 | 58 | 87 |
| MN | 98 | 97 | 72 | 85 |
| MT | 98 | 96 | 20 | 72 |
| ND | 90 | 84 | 66 | 87 |
| SD | 100 | 100 | 95 | 98 |
| 5 States | 94 | 90 | 63 | 86 |

These 5 States produced 97% of the 1993 spring wheat crop.

CORN DENTING

| | Current | Last Wk | 1993 | Avg. |
|-----------|---------|---------|------|------|
| CO | 97 | 88 | 71 | 76 |
| GA | 100 | 100 | 100 | 100 |
| IL | 97 | 96 | 89 | 88 |
| IN | 98 | 88 | 95 | 91 |
| IA | 100 | 98 | 58 | 83 |
| KS | 100 | 98 | 90 | 90 |
| KY | 98 | 95 | 96 | 96 |
| MI | 65 | 50 | 70 | 60 |
| MN | 96 | 90 | 37 | 77 |
| MO | 100 | 98 | 88 | 94 |
| NE | 100 | 98 | 85 | 91 |
| NC | 100 | 96 | 97 | 98 |
| OH | 95 | 83 | 92 | 83 |
| PA | 69 | 68 | 67 | 52 |
| SD | 95 | 84 | 49 | 78 |
| TX | 100 | 96 | 99 | 98 |
| WI | 78 | 61 | 41 | 61 |
| 17 States | 95 | 90 | 73 | 84 |

These 17 States produced 91% of the 1993 corn crop.

COTTON BOLLS OPENING

| | Current | Last Wk | 1993 | Avg. |
|-----------|---------|---------|------|------|
| AL | 42 | 28 | 69 | 57 |
| AZ | 97 | 92 | 98 | 94 |
| AR | 56 | 38 | 56 | 50 |
| CA | 95 | 80 | 85 | 88 |
| GA | 58 | 40 | 74 | 59 |
| LA | 87 | 79 | 87 | 83 |
| MS | 90 | 78 | 72 | 75 |
| MO | 59 | 32 | 69 | 57 |
| NM | 73 | 68 | 50 | 51 |
| NC | 67 | 37 | 79 | 64 |
| OK | 57 | 41 | 43 | 15 |
| SC | 53 | 34 | 83 | 69 |
| TN | 85 | 56 | 85 | 64 |
| TX | 50 | 39 | 53 | 38 |
| 14 States | 65 | 51 | 66 | 55 |

These 14 States produced 99% of the 1993 cotton crop.

SOYBEANS DROPPING LEAVES

| | Current | Last Wk | 1993 | Avg. |
|-----------|---------|---------|------|------|
| AL | 15 | 9 | 26 | 20 |
| AR | 10 | 8 | 6 | 7 |
| GA | 31 | 14 | 26 | 23 |
| IL | 60 | 27 | 26 | 40 |
| IN | 55 | 16 | 40 | 40 |
| IA | 71 | 31 | 10 | 28 |
| KS | 60 | 35 | 30 | 40 |
| KY | 24 | 16 | 24 | 23 |
| LA | 33 | 18 | 33 | 26 |
| MI | 40 | 25 | 25 | 30 |
| MN | 56 | 15 | 8 | 45 |
| MS | 43 | 27 | 8 | 20 |
| MO | 40 | 13 | 13 | 23 |
| NE | 79 | 42 | 22 | 36 |
| NC | 14 | 9 | 13 | 11 |
| OH | 70 | 24 | 63 | 46 |
| SC | 0 | 0 | 2 | 3 |
| SD | 78 | 44 | 27 | 56 |
| TN | 19 | 10 | 23 | 21 |
| 19 States | 53 | 23 | 22 | 33 |

These 19 States produced 95% of the 1993 soybean crop.

CORN MATURE

| | Current | Last Wk | 1993 | Avg. |
|-----------|---------|---------|------|------|
| CO | 33 | 12 | 15 | 27 |
| GA | 100 | 99 | 100 | 100 |
| IL | 52 | 32 | 33 | 47 |
| IN | 42 | 17 | 36 | 40 |
| IA | 84 | 43 | 14 | 45 |
| KS | 80 | 65 | 65 | 70 |
| KY | 75 | 65 | 72 | 68 |
| MI | 25 | 10 | 7 | 15 |
| MN | 44 | 10 | 5 | 25 |
| MO | 83 | 75 | 40 | 62 |
| NE | 73 | 33 | 16 | 40 |
| NC | 95 | 89 | 93 | 94 |
| OH | 22 | 12 | 28 | 22 |
| PA | 12 | 9 | 9 | 11 |
| SD | 57 | 33 | 11 | 41 |
| TX | 88 | 75 | 83 | 84 |
| WI | 24 | 13 | 8 | 22 |
| 17 States | 58 | 33 | 26 | 42 |

These 17 States produced 91% of the 1993 corn crop.

CORN HARVESTED

| | Current | Last Wk | 1993 | Avg. |
|-----------|---------|---------|------|------|
| CO | 0 | 0 | 0 | 0 |
| GA | 83 | 72 | 81 | 80 |
| IL | 3 | 1 | 1 | 8 |
| IN | 3 | 1 | 2 | 7 |
| IA | 5 | 3 | 0 | 3 |
| KS | 25 | 10 | 15 | 20 |
| KY | 14 | 5 | 14 | 15 |
| MI | 5 | 0 | 0 | 3 |
| MN | 1 | 0 | 0 | 1 |
| MO | 19 | 11 | 10 | 16 |
| NE | 6 | 3 | 0 | 4 |
| NC | 41 | 26 | 48 | 39 |
| OH | 1 | 0 | 2 | 2 |
| PA | 0 | 0 | 0 | 1 |
| SD | 2 | 0 | 0 | 3 |
| TX | 69 | 63 | 70 | 68 |
| WI | 0 | 0 | 0 | 0 |
| 17 States | 8 | 5 | 5 | 8 |

These 17 States produced 91% of the 1993 corn crop.

WINTER WHEAT PLANTED

| | Current | Last Wk | 1993 | Avg. |
|-----------|---------|---------|------|------|
| AR | 3 | 2 | 0 | 0 |
| CA | 0 | 0 | 1 | 0 |
| CO | 44 | 25 | 45 | 39 |
| GA | 0 | 0 | 1 | 1 |
| ID | 22 | 9 | 13 | 15 |
| IL | 2 | 0 | 1 | 1 |
| IN | 4 | 2 | 3 | 4 |
| KS | 25 | 10 | 20 | 15 |
| MI | 20 | 10 | 10 | 10 |
| MO | 4 | 2 | 4 | 3 |
| MT | 8 | 3 | 5 | 16 |
| NE | 57 | 20 | 43 | 43 |
| NC | 0 | 0 | 8 | 5 |
| OH | 2 | 0 | 2 | 2 |
| OK | 30 | 16 | 24 | 18 |
| OR | 4 | 1 | 16 | 14 |
| SD | 54 | 20 | 58 | 59 |
| TX | 30 | 20 | 30 | 27 |
| WA | 42 | 37 | 50 | 47 |
| 19 States | 26 | 13 | 23 | 21 |

These 19 States produced 92% of the 1993 winter wheat crop.

State Summaries of Weather and Agriculture

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

ALABAMA: Rainfall 0.21 to 2.86 in. north; 0.20 to 4.15 in. central; 0.37 to 2.17 in. south. Temperatures 3° below normal to 3° above normal statewide. Lows 55 to 61° north; 54 to 61° central; 55 to 64° south. Highs 85 to 90° north; 87 to 91° central, south.

Days suitable for fieldwork 6.5. Soil moisture 65% short, 30% adequate, 5% surplus. Corn harvested 59%, 56% 1993, 64% avg.; 21% fair, 63% good, 16% excellent. Sorghum harvested 28%, 23% 1993, 42% avg.; 16% poor, 12% fair, 60% good, 12% excellent. Peanuts dug 41%, 17% 1993, 44% avg.; combined 36%, 10% 1993, 34% avg.; 42% poor, 58% fair. Wheat planted 4%, 5% 1993, 9% avg. Pasture 43% fair, 53% good, 4% excellent. Livestock 8% fair, 90% good, 2% excellent. Seasonal activities: Harvesting vegetables, spraying fields for insects, weeds, seeding small grains, ground preparation for fall planting.

ALASKA: Cloudy skies, scattered showers covered most of the State.

Days suitable for harvesting grain 3, haying 2, harvesting potatoes 6. Barley harvest was nearly complete; 90% 1993. Second crop hay harvest 30%; 10% behind 1993. Commercial potato harvest 75%, versus 65% 1993. Winter supplies of straw for the State 90% adequate, 10% surplus. Topsoil 45% short, 55% adequate. Subsoil 65% short, 35% adequate.

ARIZONA: Temperatures 3° below to 2° above normal. Extremes 28°; 92° higher elevations: 47°; 106° deserts. Precipitation all upper elevations stations, most desert stations; 0.01 to 0.59 in.

Defoliation in cotton fields increasing across State. Condition remains mostly good; opening bolls 97%, 98% 1993, 94% avg. Weed infestations remain light to moderate; insect, disease infestations continue moderate. Field activities: Harvesting, defoliation, final irrigations, pesticide applications, pest monitoring. Alfalfa condition remains good. Harvest active. Weed, insect, disease infestations light to moderate. Crops harvested from central areas included cantaloupe, chili pepper, watermelon. Raisin grapes harvested central, western vineyards. Lemons, grapefruit harvested western groves. Available eastern areas were apples, chili peppers.

ARKANSAS: Temperatures were slightly above normal with widespread showers across the eastern region. Extreme 46°; 96°. Precipitation none to 2.32 in.

Days suitable for fieldwork 7. Soil moisture 75% short, 25% adequate. Producers irrigating soybeans. Rice, grain sorghum, corn harvest in progress with good yields reported. Cotton harvest has begun. Producers planting fall forages, winter wheat. Apples good condition with harvest ongoing. Peanuts good condition with harvest underway. Corn 9% fair, 75% good, 16% excellent. Alfalfa 82% fair, 18% good. Other hay 5% poor, 59% fair, 36% good. Pasture feed 2% very poor, 12% poor, 38% fair, 42% good, 6% excellent. Livestock good.

CALIFORNIA: Low pressure brought cooler than normal temperatures, a few showers. Weekend warming, drying as high pressure began.

Hot, dry weather permitted good progress field activities. Rice harvest underway all growing areas; stubble burning where conditions allowed. Cotton defoliation active San Joaquin Valley, harvest expected one to two weeks. Desert harvest full swing, defoliation rapidly nearing completion. Grain corn, silage corn, dry beans, sugarbeets harvested. Safflower, seed alfalfa harvests winding down. Alfalfa treated worms, insects. Harvests alfalfa, sudangrass hay seasonally normal; desert yields poor, whitefly problems. Ground preparation fall-planted small grains ongoing. Raisin stages harvest from just laid down, dry, being rolled, binned. Wine juice grape harvest active throughout State. Table grape harvest continued Red Globe, Thompson Seedless, Black Prima, Ruby Seedless,

Fantasy main varieties picked. Prune harvest virtually complete throughout State. Plum harvest winding down, Autumn Giant Casselman, Roysum, Angeleno major varieties picked. Harvest almonds nectarines, figs, apples, pomegranates continued during week. Walnut harvest began Sacramento, San Joaquin Valleys. Olive growers prepared orchards harvest. Valencia orange, grapefruit, lemon harvest continued. Light broccoli harvest central coast. Fall broccoli, cauliflower progressing normally central coast, Riverside County. Cabbage irrigated, treated for worms Fresno County. Harvest carrots Kern County continued. Celery harvested Oxnard area. Sweet corn harvest Sacramento Valley continued. Fall head, leaf lettuce fields irrigated San Joaquin Valley. Romaine, leaf lettuce continued harvested. Melon harvest central valley, Riverside County slowed. Whiteflies damage Palo Verde Valley fall melons. Onion harvest winding down central coast. Peppers harvested San Joaquin Valley. Fall potato harvest Tulelake-Butte Valley getting started. Spring potato harvest completed Riverside county. Sweet potatoes harvested in Merced, Stanislaus Counties. Spinach progressing normally Tulare County. Harvest fresh market tomatoes slow San Joaquin Valley. Processing tomato harvest winding down central valley. Herbs, spices harvested Riverside, Stanislaus counties. Vineseed harvest continued Glenn, Sutter Counties. Other crops harvested: squash, cucumbers, green beans, green onions, okra, eggplant. Livestock good condition. Seasonal decline rangeland. Nutritional value feed, poor most areas. Supplemental feeding increased; quality, quantity feeds declined. Mountain pastures dry. Livestock movement lower elevations increased. Calving, lambing some areas. Deaths occurred, cold nights, higher elevations. Sheep grazing tomato, melon fields.

COLORADO: Southwest monsoon brought mid to high level clouds into the State the 12th, 13th little moisture. A cold front moved through on the 14th combining with the southwest moisture resulting in precipitation statewide especially the southwest. The 16th thru 18th were mostly dry. Temperatures above normal the 12th thru 14th, 16th, below normal the 15th, 17th.

Days suitable for fieldwork 5.6. Soil moisture 27% very short, 41% short, 30% adequate, 2% surplus. Alfalfa third cutting 64% complete, 56% 1993, 48% avg.; 1% very poor, 6% poor, 28% fair, 57% good, 8% excellent. Fourth cutting being made in a few areas. Spring barley 96% harvested, 95% 1993, 95% avg. Dry beans 86% cut, 59% 1993, 54% avg.; 72% harvested, 40% 1993, 34% avg. Oats 90% harvested, 90% 1993, 88% avg. Dry onions 88% harvested, 58% 1993, 62% avg. Sugarbeets 2% poor, 11% fair, 72% good, 15% excellent. Spring wheat 91% harvested, 52% 1993, 66% avg. Summer potatoes 83% harvested, 65% 1993, 71% avg. Fall potatoes 25% harvested, 38% 1993, 17% avg.; 10% fair, 60% good, 30% excellent. San Luis Valley received a killing frost on 14th. Corn silage 58% harvested, 28% 1993, 41% avg. Winter wheat 44% seeded, 45% 1993, 39% avg.; 9% emerged, 12% 1993, 15% avg. Dry weather slowing emergence of winter wheat. Harvesting of apples underway. Livestock fair to good. Pasture, range feed conditions are very poor over most of the State, except the southeast where conditions are poor to fair.

FLORIDA: Temperature slightly below normal central, south, above normal west, north. Highs upper 80s to low 90s. Lows low to mid 60s Panhandle; mid to upper 60s Big Bend, north Peninsula; upper 60s to low 70s central, south. Rain fell on 2 to 5 days north, 3 to 7 days central, south. Rainfall 0.50 in. to over 5.00 in. some locations north, 1.00 to 6.00 in. central, south.

Soil moisture short to adequate in Panhandle, northern Peninsula, adequate to surplus moisture central, southern Peninsula. Tobacco marketing active. Corn, peanut harvest active. Growers making preparations for cotton harvest. Sugarcane making good progress. Haying active, weather permitting. Hard rains in most citrus areas: Lots of new growth. Fruit progressing well. Testing continues for early shipments. Many varieties of early fruit packed, shipped.

Caretakers cutting cover crops, spraying, fertilizing. Abundant rains in vegetable areas delayed fall planting. Harvest of northern sweet corn, watermelons, tomatoes, snap beans, to start over next two weeks. Pasture feed 25% fair, 60% good, 15% excellent. Cattle herds, condition mostly good.

GEORGIA: Cool week in southwest temperatures 1 to 2° below normal, elsewhere 1 to 4° above normal. Extreme highs reached middle 80s mountains to upper 80s central, south. Lows middle 50s mountains to 60s central and south except for middle 60s along coast. Rain one to three days except along coast four days rain. Weekly totals 1.00 to 2.00 in. common north, southwest, near the coast, generally under 1.00 in. elsewhere.

Days suitable for fieldwork 6.1. Soil moisture 2% very short, 31% short, 67% adequate. Cotton 1% harvested, 5% 1993, 6% avg.; defoliating increasing. Sorghum 8% fair, 88% good, 4% excellent; 58% harvested for grain, 42% 1993, 42% avg. Peanuts 10% fair, 80% good, 10% excellent; 49% dug, 20% 1993, 38% avg.; 32% threshed, 9% 1993, 25% avg.; hard soils causing digging problems some areas. Soybeans 100% setting pods, 94% 1993, 97% avg.; insect pressure increasing, spraying active. Wheat planting just getting underway. Rye 4% planted, 4% 1993, 3% avg. Other small grains 2% planted, 1% 1993, 2% avg. Vegetables 1% poor, 44% fair, 52% good, 3% excellent; squash harvest underway south. Apples 100% good; 45% harvested, 51% 1993, 55% avg. Pecans 9% poor, 48% fair, 42% good, 1% excellent. Hay, pasture feed good, mowing pastures, harvesting hay. Hogs, cattle good.

HAWAII: Tropical disturbance closed out sunny week. On September 13th, a record high 91° reached in Honolulu. Heavy rains traveled westward up island chain over weekend, mainly 18th. Road closures, some flooding occurred. Temperatures mid 70s to low 90s. Rainfall none to 14.80 in.

Heavy rains fell over windward areas, higher elevations leaving mixed effects on crop progress. Some flooding, washout to low lying areas. Extent of damage to agriculture not known at this time. Rains helpful to some crops since recent hot, dry weather. Insect infestations variable for some fields. Hawaii island shipments of cavendish banana expected heavy, papaya shipments should be moderate. Maui's sugarcane benefitted from good rains.

IDAHO: Temperatures 4° above to 4° below normal. Precipitation none to 0.37 in. north, none to 0.08 in. southwest, none to 0.03 in. south central, none to 0.18 in. east. Extremes 30°; 96°.

Days suitable for fieldwork 7. Potatoes harvested 18%, 11% 1993, 14% avg.; 1% poor, 10% fair, 66% good, 23% excellent. Soil moisture 49% very short, 30% short, 21% adequate. Range, pasture feed 53%. Sugarbeets harvested 4%, 2% 1993, 5% avg. Barley harvested 99%, 71% 1993, 90% avg. Alfalfa hay harvested (3rd cutting) 71%, 40% 1993, 50% avg. Apples harvested 21%, 11% 1993, 17% avg. Corn for silage acreage harvested 39%, 20% 1993, 27% avg. Peaches harvested 99%, 88% 1993, 95% avg. Plums, prunes harvested 94%, 73% 1993, 93% avg. Onions harvested 74%, 41% 1993, 47% avg. Hops harvested 73%, 87% 1993, 71% avg. Dry beans harvested 80%, 28% 1993, 44% avg. Irrigation water supplies 31% very poor, 21% poor, 27% fair, 20% good, 1% excellent. Primary activities: Harvesting potatoes, killing, rolling potato vines, moving livestock.

ILLINOIS: Summertime weather dominated the week, before a cold front 16th brought cooler weekend weather. Temperatures 3 to 7° warmer in the south, 6 to 10° warmer in the north. Highs from the lower to middle 80s with average lows in the mid 50s to lower 60s. Extreme highs 90 to 95°. Extreme lows, over the weekend, 40s to 50s. Rainfall was very scattered ranging from less than 0.10 to 0.50 in. Many areas received little to no precipitation.

Days suitable for fieldwork 6.75. Soil moisture 61% short, 39% adequate. Soybeans turning yellow 87%, 64% 1993, 72% avg. Soybeans harvested 8%, 1% 1993, 5% avg. Pasture feed 77% of normal. Soil moisture supplies were mostly short in the central, southern districts. Crop conditions remained good with warm, dry temperatures. Early varieties of soybeans continued being harvested. Farm activities included chopping corn silage, harvesting seed corn,

preparing storage facilities for harvest, cutting hay, harvesting vegetable, melon crops and mowing weeds.

INDIANA: Warmer, drier than normal weather occurred across State last week. A cold front produced variable rainfall amounts on 16th across the State. High temperatures in the low to mid 80s. This was up 4 to 7° above normal in south, 6 to 11° above normal rest of the State. Lows in the mid 50s to lower 60s, normal to 5° above normal south an 2 to 10° above normal central, north regions. Coolest readings were in the low 40s to around 50°. Rainfall varied up to around 0.70 in. Drier than normal by 0.50 to 0.75 in. across the State. No rain reported in the northeast.

Days suitable for fieldwork 5.9. Corn, soybean harvest advanced with ideal conditions. Other activities: Plowing, harvesting seed corn, cutting corn silage, harvesting tobacco, final hay cuttings, machinery maintenance, preparing for fall harvest. Pasture feed 70% of normal, 73% last week. Topsoil 70% short, 30% adequate. Subsoil moisture 58% short, 42% adequate. Soybeans mature 22%, 11% 1993, 17% avg.; turning color 90%, 82% 1993, 74% avg. Corn silage chopped 53%, 46% 1993, 42% avg. Tobacco harvested 75%, 72% 1993, 66% avg. Final cutting of hay crops.

IOWA: Temperatures 7 to 12° above normal. Extremes 45°; 95°. Rainfall none to 1.76 in.; average 0.23 in.

Days suitable for fieldwork 6.5. Topsoil 33% short, 67% adequate. Subsoil 24% short, 76% adequate. Soybeans with leaves turning color 100%, 36% 1993, 63% avg. Soybeans harvested 6%, 0% 1993, 0% avg. Alfalfa hay 3rd crop harvested 94%, 52% 1993, 83% avg. Corn lodging 34% none, 63% light, 3% moderate, 0% heavy; ear droppage 37% none, 63% light, 0% moderate, 0% heavy. Pasture feed 10% poor, 29% fair, 51% good, 10% excellent. Hay 5% poor, 24% fair, 61% good, 10% excellent. Swine disease, porcine reproductive respiratory syndrome (PRRS) continues to be reported, although less frequently. Overall, livestock continue to be in good condition with the exception of face fly, pinkeye problems in cattle, reports of pneumonia problems in cattle, hogs.

KANSAS: Temperatures 3 to 10° above normal; coolest southwest; warmest north, central. Precipitation less than 0.08 in. across State.

Days suitable for fieldwork 6.5. Surface soil moisture 77% short to very short, 23% adequate. Subsurface moisture 55% short to very short, 45% adequate. Dry weather past week allowed farmers to harvest corn, sorghum, soybeans, sunflowers, dry beans, hay, feed crops. Corn harvest progressed well in all districts. Sorghum harvest is well underway across the State. Lodging was reported in wind damaged areas of the northeast. Soybean harvest gaining momentum in all districts. Winter wheat emerged 5%, 5% 1993, 4% avg. Wheat planting is progressing well in the western third of State. Farmers in extremely dry areas waiting for rain before planting wheat. Alfalfa 4th-cutting 70%. Fall crop harvest, planting wheat major activities. Pastures in mostly fair condition.

KENTUCKY: Warm, dry; highs upper 80s, lows in lower to mid 60s. Temperatures turned cooler over weekend. Temperatures 4 to 6° above normal. Only rain occurred on 16th to 17th along cold front, 0.10 to 1.00 in.

Days suitable for fieldwork 5.8. Soil moisture 24% very short, 55% short, 21% adequate. Burley tobacco 85% cut, 73% 1993, 77% avg. Dark tobacco 86% cut, 77% 1993, 78% avg. Corn, soybean mostly good. Hay 4% very poor, 11% poor, 37% fair, 42% good, 6% excellent. Pasture feed fair, weekend rains beneficial.

LOUISIANA: Temperatures -2° below to 1.0° above normal. Extremes 59°; 98°. Rainfall 0.12 in. northwest to 3.53 in. east central.

Days suitable for fieldwork 5.1. Soil moisture 12% short, 59% adequate and 29% surplus. Corn 98% harvested, 95% 1993, 96% avg. Harvest was coming to close. Cotton 12% harvested, 4% 1993, 11% avg. Defoliation, harvest were underway. Hay 78% final cutting, 79% 1993, 76% avg. Slowed due to lack of storage, need for hay. Rice 75% ripe, 89% 1993, 92% avg. Harvest slowed in the south due to lack of storage capacity at some facilities. Sorghum harvest continued active. Soybeans 57% turning color, 57% 1993, 51% avg.; 7% harvested, 7% 1993, 6% avg. Northern early soybeans were turning color, southern

areas were harvesting. Sugarcane 26% fair, 74% good; 71% planted, 73% 1993, 56% avg. Planting slowed due to showers. Sweet potatoes 23% fair, 71% good; 6% excellent; 43% harvested, 40% 1993, 41% avg. Harvest made excellent progress in the north, slowed in the south by rain or bruising. Livestock 18% poor, 55% fair, 27% good. Winter herd management began. Pasture feed 1% poor, 6% fair, 88% good, 5% excellent. Timely rains have sustained pastures well. Vegetables 2% poor, 36% fair, 54% good, 8% excellent.

MARYLAND & DELAWARE: **MARYLAND:** Precipitation 0.18 in., normal 0.86 in. Temperature 70.1°, normal 69.9°. Extremes 91°; 36°.

Days suitable for fieldwork 6.4. Topsoil 21% very short, 26% short, 53% adequate. Subsoil 5% very short, 39% short, 56% adequate. Pasture feed good. Corn fair to mostly good; 100% dough, 99% 1993, 97% avg.; 90% dent, 97% 1993, 87% avg.; 55% mature, 60% 1993, 52% avg.; 10% grain harvested, 17% 1993, 14% avg.; 41% silage harvested, 64% 1993, 53% avg. Soybeans fair to mostly good; 99% setting pods, 96% 1993, 95% avg.; 31% turned, 34% 1993, 30% avg.; 11% shedding leaves, 7% 1993, 9% avg. Sorghum good; 67% turned, 34% 1993, 74% avg.; tobacco mostly good to excellent; 96% topped, 90% 1993, 95% avg.; 69% harvested, 62% 1993, 76% avg. Sweet corn 98% harvested, 99% 1993, 97% avg. Other hay 90% second cut, 95% 1993, 94% avg.; 76% third cut, 68% 1993, 50% avg.; 32% fourth cut, 25% 1993, 14% avg. Alfalfa hay 99% third cut, 100% 1993, 97% avg.; 71% fourth cut, 63% 1993, 47% avg. Hay supplies adequate. Apples 37% harvested, 40% 1993, 38% avg.

DELAWARE: Precipitation none, normal 0.93 in. Temperature 70.0°, normal 70.4°. Extremes 47°; 89°.

Days suitable for fieldwork 6.5. Topsoil 71% short, 29% adequate. Subsoil 57% short, 43% adequate. Oats 29% planted, 28% 1993, 6% avg. Corn mostly fair to good; 100% dough, 100% 1993, 99% avg.; 99% dent, 91% 1993, 95% avg.; 46% mature, 65% 1993, 58% avg.; 10% grain harvested, 17% 1993, 18% avg.; 68% silage harvested, 77% 1993, 72% avg. Soybeans good; 97% setting pods, 91% 1993, 94% avg.; 28% turned, 23% 1993, 19% avg.; 13% shedding leaves, 8% 1993, 6% avg. Sorghum fair to good; 63% turned, 26% 1993, 50% avg.; 14% mature, 7% 1993, 20% avg. Sweet corn 100% harvested, 100% 1993, 97% avg. Other hay 83% third cut, 52% 1993, 76% avg. Alfalfa hay 50% fourth cut, 37% 1993, 48% avg. Hay supplies adequate; pasture feed condition good. Peaches 100% harvested, 99% 1993, 99% avg. Apples 51% harvested, 47% 1993, 44% avg.

MICHIGAN: Extremes 38°; 91°. Precipitation none to 2.87 in. across the State.

Days suitable for fieldwork 5.5. Soil moisture 30% short, 60% adequate, 10% surplus. Dry beans 70% shedding, 90% 1993, 75% avg.; 90% turning, 99% 1993, 97% avg.; 10% very poor, 15% poor, 35% fair, 30% good, 10% excellent. Potatoes 80% harvested, 55% 1993, 55% avg. Hay 65% third cutting, 55% 1993, 55% avg.; 1% very poor, 4% poor, 30% fair, 45% good, 20% excellent. Pasture feed 85% of normal. Major activities: Fruit harvest, cutting hay, planting wheat, corn silage harvest, corn grain harvest, potato harvest, dry bean harvest.

MINNESOTA: Temperatures 7 to 11° above normal for the State. Extremes 41°; 92°. Precipitation above normal across the State. Greatest weekly total 5.48 in.

Days suitable for fieldwork 3.0. Topsoil 1% short, 55% adequate, 44% surplus. Corn 44% mature, 5% 1993, 25% avg.; harvested 1%, N/A 1993, 1% avg. Corn cut for silage 21%, 6% 1993, 17% avg. Soybeans 97% yellowing, 38% 1993, 76% avg.; shedding leaves 56%, 8% 1993, 45% avg.; mature 15%, N/A 1993, 13% avg.; harvested 2%, N/A 1993, 2% avg. Spring wheat 98% combined, 72% 1993, 85% avg. Potatoes 32% harvested, 30% 1993, 29% avg. Dry edible beans 45% harvested, 30% 1993, 46% avg. Sweet corn for processing 93% harvested, 69% 1993, 79% avg. Flaxseed 53% harvested, 25% 1993, 51% avg. Sugarbeets 8% harvested, 4% 1993, 4% avg. Sunflowers 1% harvested, N/A 1993, 2% avg. Grain/Hay stubble 56% worked, 34% 1993, 52% avg. Rye 75% seeded (Fall), 51% 1993, 69% avg. Winter wheat 80% seeded (Fall), 40% 1993, 69% avg. Corn 2% very poor, 3% poor, 12% fair, 64% good, 19%

excellent. Soybeans 2% very poor, 2% poor, 24% fair, 61% good, 11% excellent. All sunflowers 6% poor, 29% fair, 59% good, 6% excellent. Sugarbeets 17% fair, 64% good, 19% excellent. Dry edible beans 2% very poor, 5% poor, 28% fair, 56% good, 9% excellent.

MISSISSIPPI: Temperatures 1.2° above normal. Extremes 55°; 97°. Soil temperature 82°. Precipitation 1.08 in., 0.15 in. above normal. Coastal district received 3.04 in. of rainfall for the week. Greatest one day precipitation occurred at Bay St. Louis with nearly 5.00 in.

Days suitable for fieldwork 6.1. Soil moisture 38% short, 62% adequate. Corn 98% mature, 94% 1993, 92% avg.; 60% harvested, 47% 1993, 50% avg.; 93% silage harvested, 82% 1993, 91% avg.; 1% fair, 47% good, 52% excellent. Cotton 90% open bolls, 72% 1993, 75% avg.; 6% harvested, 0% 1993, 7% avg.; 33% fair, 65% good, 2% excellent. Rice 93% mature, 56% 1993, 72% avg.; 50% harvested, 24% 1993, 32% avg.; 59% good, 41% excellent. Sorghum 97% mature, 79% 1993, 82% avg.; 72% harvested, 47% 1993, 52% avg.; 84% silage harvested, 79% 1993, 86% avg.; 33% fair, 63% good, 4% excellent. Soybeans 75% turning color, 29% 1993, 43% avg.; 43% shedding leaves, 8% 1993, 20% avg.; 12% harvested, 0% 1993, 2% avg.; 9% fair, 71% good, 20% excellent. Wheat 3% planted, 1% 1993, 4% avg. Hay 97% harvested, 92% 1993, 89% avg. Peanuts 29% harvested, 65% 1993, 64% avg. Sweet potatoes 55% harvested, 39% 1993, 47% avg. Pecans 12% very poor, 8% poor, 69% fair, 11% good. Livestock 15% fair, 75% good, 10% excellent. Pasture feed 80% of normal. Activities: Planting winter grazing, finishing hay harvest, preparing for cotton harvest, cotton defoliation, corn harvest. Soybean harvest is currently underway.

MISSOURI: Temperatures above normal across the State, 3° above normal at Springfield to 10° above normal at Kirksville. Rainfall 0.14 in., varying from virtually none in most areas of the State to 0.39 in. southeast.

Days suitable for fieldwork 6.5. Topsoil 66% short, 34% adequate. Corn mature by district 65% northeast to 100% southeast; harvest 10% northern regions, 72% southeast. Soybeans dropping leaves by district 21% southeast to 55% northwest. Sorghum mature by district 23% northeast, central to 88% southeast. Pasture feed 2% very poor, 17% poor, 59% fair, 19% good, 3% excellent.

MONTANA: Above normal temperatures across State. Significant rainfall in south central, central, east central portions of the State.

Days suitable for fieldwork 6.2. Topsoil 80% short, 20% adequate. Subsoil 81% short, 19% adequate. Barley 97% harvested, 26% 1993, 74% avg. Oats 98% harvested, 21% 1993, 74% avg. Dry beans 80% harvested, 10% 1993, 30% avg. Corn for silage 59% harvested, 25% 1993, 29% avg. Second cutting alfalfa 98% harvested, 63% 1993, 83% avg. Potatoes 4% harvested, 0% 1993, 1% avg. Sugarbeets 3% harvested, 0% 1993, 1% avg. Pasture, range feed condition 76% of normal. Cattle, calves moved from summer ranges, 20%. Sheep, lambs moved from summer ranges, 20%.

NEBRASKA: Temperatures 4 to 9° above normals. Precipitation occurred only as scattered trace amounts throughout the week.

Days suitable for fieldwork 6.8. Topsoil moisture 76% short, 24% adequate. Subsoil moisture 36% short, 64% adequate. Corn 1% poor, 9% fair, 74% good, 16% excellent; 73% mature, 16% 1993, 40% avg.; 6% harvested, 0% 1993, 4% avg. Soybean 2% poor, 14% fair, 73% good, 11% excellent; 79% dropping leaves, 22% 1993, 36% avg.; 11% harvested, 0% 1993, 2% avg. Sorghum 1% poor, 11% fair, 74% good, 14% excellent; 67% mature, 6% 1993, 29% avg.; 4% harvested, 0% 1993, 3% avg. Dry bean harvest 69% complete, 31% 1993. Pasture, range feed 83% of normal.

NEVADA: Cooler, fall-like weather moved into the State, bringing moisture to the northern, central portions of the State. Snow fell in some mountain ranges at elevations above 8,000 feet. Heavy precipitation fell in the Carson Valley on 12th, causing some local flooding in the Minden/Gardnerville area. Greatest amounts of rainfall at official weather stations was 0.33 in. at Mountain City, followed by 0.31 in. at Daggett Pass. No measurable precipitation was recorded in the South. Temperatures 2 to 4° below normal statewide. Extremes 24°; 109°.

Small grain harvests completed. Alfalfa third cutting winding down. Other hay harvest virtually complete. Onion digging continued in full swing. Movement of livestock to fall pastures continued. Main farm, ranch activities: Haying, moving livestock.

NEW ENGLAND: Precipitation 0.05 to 1.31 in. regionwide. Temperatures 54 to 65° north; 61 to 70° south. Temperatures 2° above normal regionwide. Maximum temperatures 73 to 86° north; 66 to 86° south. Minimum temperatures 33 to 50° north; 36 to 54° south.

Days suitable for fieldwork 6. Soil moisture 12% short, 88% adequate. Available grazing, 6% short, 94% adequate. Fieldwork on schedule. Maine potato harvest has not advanced to the level previously stated. Maine potatoes 10% harvested, 20% 1993, avg.. Connecticut River Valley potatoes 60% harvested, 50% 1993, 40% avg.; good. Maine oats 80% harvested, 80% 1993, 80% avg.; good. Field corn 15% harvested, 10% 1993, 10% avg.; good/excellent. Shade tobacco good. Outdoor tobacco good. Second crop hay 90% harvested, 85% 1993, 90% avg.; good. Third crop hay 55% harvested, 40% 1993, 50% avg.; good/fair. Sweet corn 95% harvested, 90% 1993, 90% avg.; good. Apples 25% harvested, 20% 1993, 30% avg.; size medium, good, color good. Peaches size medium, 95% harvested, fair. Pears 80% harvested; size medium, good to fair. Wild blueberries size medium, 100% harvested, good. Cranberries size medium/large, good. Activities: Harvesting fruits, vegetables, disking down harvested fields, planting cover crops, chopping silage corn.

NEW JERSEY: Temperatures much above normal. Extremes 41°; 90°. Rainfall 0.61 in. north, 0.72 in. central, 0.88 in. south. Heaviest 24 hour total 1.73 in. on 17th, 18th. Estimated soil moisture, in percent field capacity, averaged 68% north, 61% central, 44% south. Four inch soil temperatures 68° north, 65° central, 67° south.

Days suitable for fieldwork 7. Cooler temperatures combined with limited rainfall has allowed for active fieldwork. Major farming activities included: Spraying pesticides, harvesting vegetables, irrigating crops, cutting hay. Good supply of eggplants, beans, cabbage, cucumbers, squash, peppers. Moderate supply of turnips, leeks, endive, escarole, herbs, parsley, sweet corn, pumpkins, tomatoes. Limited supply of okra, green onions. Fall varieties of apples being harvested: Red Delicious, Macintosh, Macoun. Soybeans are turning color, beginning to drop their leaves.

NEW MEXICO: Temperatures for the week were slightly below normal at most locations. Quemado Lake had an anomaly of minus 9° State averaged 2° below normal. Extremes 24° Quemado Lake; 93° Deming. Most of the precipitation fell early in the week although a few showers returned for the weekend. Greater amounts were found from the central mountain chain westward. Highest totals were 1.43 in. at Ruidoso, 1.12 in. at Santa Fe, 1.10 in. at Chama.

Days suitable for fieldwork 6.5. Soil moisture is 95% short, 5% adequate. Cropland conditions: Alfalfa 29% fair, 65% good, 6% excellent. Chile 8% poor, 25% fair, 67% good. Corn 8% poor, 31% fair, 61% good. Irrigated sorghum was reported as 25% fair, 75% good. Dryland sorghum 67% poor, 33% fair. Cotton 10% poor, 20% fair, 50% good, 20% excellent. Pecans 13% poor, 25% fair, 49% good, 13% excellent. Apples 25% poor, 75% good. Cattle, sheep conditions varied across the State from poor to good condition. Range feed condition 53% of normal.

NEW YORK: Temperatures near normal. Extremes 37°; 90°. Wide disparity in rainfall. West, central areas received less than 0.25 in. Most eastern regions received between 0.25 to 0.75 in. Southeastern sections picked up between 0.75 to 1.50 in. mostly due to heavy rainfall over the weekend.

Days suitable for fieldwork 6.0. Soil moisture mostly adequate. Pasture feed 90% of normal. Hay condition good. Third cutting alfalfa 71% complete, 66% 1994, 60% avg. Oat harvest finished. Corn silage 6% harvested, 7% 1994, 10% avg. Corn condition good. Potato harvest continued. Orange County onions 75% harvested. Yields vary considerably. Coolness slowed vegetable growth. Apple picking gaining momentum. Cider making active.

NORTH CAROLINA: Mean temperature 1 to 5° above normal. Rainfall 1.75 in. at Franklin to no precipitation at many locations.

Days suitable for fieldwork 6.3. Soil 1% very short, 36% short, 62% adequate, 1% surplus. Crop conditions: Pasture feed 1% poor, 23% fair, 75% good, 1% excellent; tobacco 4% poor, 20% fair, 64% good, 12% excellent; corn 12% poor, 27% fair, 59% good, 2% excellent; cotton 14% fair, 80% good, 6% excellent; peanuts 15% fair, 85% good; soybeans 22% fair, 74% good, 4% excellent; hay 22% fair, 77% good, 1% excellent; sweet potatoes 9% fair, 81% good, 10% excellent; apples 15% fair, 71% good, 14% excellent; sorghum 1% poor, 19% fair, 79% good, 1% excellent; hay, roughage supplies 15% short, 74% adequate, 11% surplus; corn for grain harvested 41%, 48% 1993, 39% avg.; corn for silage harvested 75%, 80% 1993, 74% avg.; burley tobacco harvested 57%, 38% 1993, 56% avg.; flue-cured tobacco harvested 75%, 72% 1993, 82% avg.; sorghum 27%, 25% 1993, 19% avg.; apples harvested 40%, 38% 1993, 47% avg.; sweet potatoes harvested 21%, 11% 1993, 17% avg.; cotton open bolls 67%, 79% 1993, 64% avg.; corn mature 95%, 93% 1993, 94% avg.; soybeans pods set 94%, 90% 1993, 91% avg.; leaf drop 14%, 13% 1993, 11% avg.; second cutting of hay is 87% complete with the third cutting 58% complete. Main activities: Harvesting tobacco, corn, hay, marketing tobacco. Other activities: Tending livestock; equipment repair, general farm maintenance.

NORTH DAKOTA: A frontal system moving east through State brought 3.00 to 5.00 in. of flooding in some areas. Precipitation 0.43 in. northwest to 2.69 in. south central. Temperatures 8 to 10° above normal. Extremes 33° west central; 86° east central.

Days suitable for fieldwork 4.0. Topsoil 8% very short, 23% short, 61% adequate, 8% surplus. Subsoil 6% very short, 24% short, 63% adequate, 7% surplus. Small grain harvest nearly complete. Hard red spring wheat 90% combined, 66% 1993, 87% avg.; durum wheat 85% combined, 38% 1993, 77% avg.; barley 98% combined, 84% 1993, 94% avg.; oats 97% combined, 80% 1993, 94% avg. Late season crop development ahead of last year but some dropping behind average. Flaxseed 34% combined, 16% 1993, 53% avg.; corn for grain 36% ripe and beyond, 1% 1993, 26% avg.; corn for silage 26% cut, 17% 1993, 45% avg.; dry edible beans 32% combined, 11% 1993, 41% avg.; soybeans 77% mature and beyond, 22% 1993, 56% avg.; sunflower 34% bracts turned brown and beyond, 14% 1993, 37% avg.; sugarbeets 7% lifted, 5% 1993, 4% avg.; potatoes 44% dug, 34% 1993, 37% avg. Condition: Flaxseed 2% poor, 17% fair, 69% good, 12% excellent; corn for grain 1% poor, 10% fair, 61% good, 28% excellent; corn for silage 1% very poor, 4% poor, 24% fair, 58% good, 13% excellent; dry edible beans 1% very poor, 7% poor, 22% fair, 58% good, 12% excellent; soybeans 5% poor, 15% fair, 62% good, 18% excellent; sunflower 1% very poor, 2% poor, 11% fair, 65% good, 21% excellent; sugarbeets 3% poor, 5% fair, 75% good, 17% excellent; potatoes 1% poor, 5% fair, 70% good, 24% excellent. Indicated acres planted, winter wheat 22%, rye 36%. Range, pasture feed 79% of normal. Stockwater supplies 10% short, 88% adequate, 2% surplus.

OHIO: Summertime weather dominated the week before a cold front late 16th ushered in cooler weather for the weekend. It was a generally dry week, favorable for outdoor activities, maturing crops. Scattered showers and thunderstorms accompanied the cold front late 16th, 17th. Temperatures 2 to 7° warmer than normal across the south, 5 to 10° above normal in the north. Highs upper 70s to mid 80s with lows in the mid 50s to low 60s. Thermometers peaked at 90 to 95 in most places on 14th. Cool air dropped lows in the 40s to 50s 18th night. Much of State received some rain during the week, most of it coming either 16th night, 17th. Rainfall amounts varied substantially, however. Some farms had 0.10 in. or less while storms brought isolated heavier amounts of 1.00 in. or more. Most amounts were 0.50 in. or less.

Days suitable for fieldwork 6.8. Crop condition remained good. Vegetable harvest continued. Soil moisture 42% short, 58% adequate, no surplus. Soybeans mature 17%, 18% 1993, 16% avg. Corn mature 22%, 28% 1993, 22% avg. Tomato harvest 60% complete. Potato harvest 55% complete. Corn for silage harvest 25% complete. Hay 1% very poor, 3% poor, 27% fair, 57% good, 12% very good. Alfalfa hay third cutting 91% complete. Other hay third cutting 66% complete. Alfalfa hay fourth cutting 29% complete. Pasture feed 1% very poor, 12% poor, 30% fair, 50% good, 7% excellent.

OKLAHOMA: Temperatures 1° below normal south central to 1° above Panhandle. Precipitation none southeast to 2.04 in. northeast.

Days suitable for fieldwork 6.2. Topsoil moisture 34% short, 66% adequate. Subsoil moisture 35% short, 65% adequate. Corn 3% poor, 6% fair, 91% good; 87% mature, 86% 1993, 83% avg., 40% harvested, 40% 1993, 47% avg. Soybeans 60% mature, 34% 1993, 18% avg.; 30% harvested, 7% 1993, 4% avg. Peanuts 15% fair, 85% good; 30% mature, 36% 1993, 34% avg.; 5% harvested, none 1993, 2% avg. Cotton 8% poor, 60% fair, 32% good; 57% open bolls, 43% 1993, 15% avg.; 1% harvested, none 1993, 1% avg. Pasture feed 92% normal. Feeder steers and heifers steady to \$2.00 per hundredweight lower.

OREGON: Temperatures 1 to 5° above normal statewide, exception 1 to 4° below normal southeastern section. Precipitation very light statewide, trace to 0.10 in.

Soil moisture: 79% short, 21% adequate. Barley 89% harvested. Winter wheat 4% planted. Eastern section: Mint harvest continued, some seeding winter wheat. Western section: Alfalfa hay harvest continued, sugarbeet seed harvest continued, clover seed harvest continued, flower seed harvest continued. Garlic harvest underway, central areas. Malheur County onion, potato harvest continued. Fresh, processed vegetable harvest continued, Comice, Anjou pear harvest to begin of 18th, Bosc pear harvest nearly complete, apple harvest continued, late peach harvest continued, prune drying underway, Evergreen blackberry harvest completed, pruning, training canberries continued, hazelnuts dropping. Comice, Anjou pear harvest continued, Medford district. Hood River Valley: Anjou pear harvest continued, Gala apple harvest continued. South coast: Cranberry growers irrigated, heat control; spraying cranberry girdler, black vine weevil larvae. Livestock continued good condition. Rangeland & forest land continued extremely dry. Supplemental feeding, fall livestock activities continued, statewide. Early calf weaning underway, lack of range forage. Some early sheep breeding underway, southern coast. Range, pasture 59% of normal.

PENNSYLVANIA: Pleasant late summer weather first part of week. Some precipitation weekend. Temperature 71°, 6° above normal. Extremes 32°; 89°. Precipitation 0.91 in., 0.06 in. above normal. Days suitable for fieldwork 6. Soil moisture 33% short, 67% adequate. Ensilage corn harvested 20% complete, 25% 1993. Soybeans 3% poor, 14% fair, 48% good, 35% excellent. Wheat planted 30% complete, 25% 1993. Barley planted 28% complete, 24% 1993. Tobacco harvest 90% complete, 86% 1993. Potato harvest 53% complete, 45% 1993. Third cutting alfalfa 81% complete, 79% 1993. Fourth cutting alfalfa 44% complete, 46% 1993. Second cutting clover-timothy 92% complete, 99% 1993. Quality of hay made 35% fair, 65% good. Feed from pastures poor to fair. Apple harvest 38% complete, 44% 1993. Grapes harvest 30% complete, 44% 1993. Fall plowing 53% complete, 49% 1993. Activities: Making hay; harvesting corn silage, tobacco, potatoes; plowing; planting winter small grains; repairing equipment; fixing fences; hauling manure; caring for livestock.

PUERTO RICO: Rainfall 1.13 in. was 0.72 in. below normal. Highest total rainfall 3.36 in. at San Lorenzo 3S, 2.56 in. at Rincon Power Plant, 2.35 in. at Cayey 1E. Island temperatures 82 to 83° on the Coasts, 74 to 79° Interior with Mean Station temperature 84.0° at San Juan WSFO to 68.8° at Pico Del Este. Extremes 60°; 95°.

SOUTH CAROLINA: Rainfall 0.50 in.; temperatures 1° above normal.

Days suitable for fieldwork 6.2. Soil moisture 5% very short, 48% short, 45% adequate, 2% surplus. Tobacco good; 98% harvested, 96% 1993, 92% avg.; 70% stalks destroyed, 38% 1993, 45% avg. Corn fair to good; 75% harvested, 71% 1993, 69% avg. Cotton 2% fair, 94% good, 4% excellent; 53% open bolls, 83% 1993, 69% avg. Soybeans 17% fair, 76% good, 7% excellent; 96% setting pods, 90% 1993, 92% avg. 9% leaves turning, 15% 1993, 14% avg. Apples good; 48% harvested, 39% 1993, 63% avg. Sorghum fair to good; 32% harvested, 36% 1993, 38% avg. Fall Hay good; 59% harvested, 52% 1993, 61% avg. Pasture feed 37% fair, 60% good, 3% excellent.

SOUTH DAKOTA: Warm early, cool mid to late week. Temperatures 5 to 12° above normal. Extremes 25°; 97°.

Precipitation mostly below normal. Heaviest 0.88 in., northwest.

Days suitable for fieldwork 5.5. Topsoil 23% very short, 36% short, 37% adequate, 4% surplus. Subsoil 20% very short, 33% short, 41% adequate, 6% surplus. Small fires reported in dry northwest. Sunflower 3% fair, 67% good, 30% excellent; 48% mature, 21% 1993, 28% avg. Livestock 3% fair, 78% good, 19% excellent. Feed supply 17% short, 69% adequate, 14% surplus. Pastures 81% of normal. Stock water supply 2% very short, 9% short, 77% adequate, 12% surplus. Dry pastures, feedlots caused pneumonia in cattle, sheep herds.

TENNESSEE: High pressure dominated State weather 12th through 15th causing dry weather. Rain spread over Tennessee 16th into 17th. High pressure, dry weather returned 18th. Temperatures averaged slightly above normal for the week, except for the upper Northeast, Cumberland Plateau, temperatures between 3 and 5° below normal.

Days suitable for fieldwork 6.2. Soil moisture 2% very short, 37% short, 59% adequate, 2% surplus. Corn 77% mature, 81% 1993, 78% avg.; 21% grain harvest, 21% 1993, 20% avg.; 72% silage harvest, 68% 1993, 78% avg. Cotton 85% open bolls, 85% 1993, 64% avg.; 4% harvested, 4% 1993, 1% avg.; 99% good, 1% excellent. Burley 80% harvested, 68% 1993, 78% avg. Dark fire-cured 84% harvest, 73% 1993, 77% avg. Dark air-cured 86% harvest, 74% 1993, 80% avg. Sorghum 85% mature, 85% 1993, 71% avg.; 27% grain harvest, 40% 1993, 25% avg. Soybeans 99% setting pods, 99% 1993, 97% avg.; 19% shedding, 23% 1993, 21% avg.; 6% fair, 90% good, 4% excellent. Cattle, 7% fair, 88% good, 5% excellent. Pasture feed 2% poor, 15% fair, 77% good, 6% excellent.

TEXAS: A cold front brought scattered showers, thunderstorms to the northwestern two-thirds of the State, resulting in above normal rainfall in those areas. East, South Texas also received rainfall from a tropical low pressure system, main strength of the system was located east of Texas, so rainfall amounts were light to moderate. The divisions with greatest departures from normal were East Texas -0.67 in., Upper Coast -0.79 in., Lower Rio Grande Valley -0.80 in. Greatest departure above normal was +0.29 in. in Low Rolling Plains division. Larger amounts received by individual stations were 3.16 in. at Stephenville, 2.08 in. at Lamesa, 1.91 in. at Granger. Temperature was near normal in Upper Coast, East Texas divisions, below normal elsewhere. Departures -1 to -4°, with most between -2 to -3°. Mean soil temperature low-70s to mid-80s. Range of mean soil temperature was from 72° at Bushland to 85° at Waco. Highest daily maximum soil temperature was 97° at Pecos, while lowest daily minimum soil temperature was 61° at Bushland.

Crops: Corn harvest continued on an intermittent basis in the High Plains. Heavy rains throughout the Blacklands caused further delay of harvest completion. Corn 86% normal, 85% 1993. Cotton harvest activities were at a near stand still due to cool, wet weather conditions. Defoliation activities were also delayed from Blacklands southward. In the Plains, new growth was beginning to show up, cause problems in early defoliated dryland fields. Statewide cotton condition was 64% normal, 74% 1993; 24% harvested, 23% 1993. Peanuts continued to make steady progress. However, wet weather conditions caused leaf spot, southern blight to increase in many fields. Many producers were applying treatments to fields to help decrease diseases. Harvest continued at a slow pace. Peanuts 82% normal, 67% 1993; 6% harvested, 5% 1993. Rice harvest continued in areas where weather conditions allowed. Sorghum: heavy rains in Blacklands caused further delays of harvest activities. In High Plains, cooler temperatures slowed maturing of most fields. A few early maturing fields were harvested and preparations for harvest continued. Sorghum 69% normal, 81% 1993; 100% headed, 100% 1993. Soybean harvest continued to make progress, delayed by rain across many parts of the State. Rains should benefit late planted fields which continued to make good progress. Small grains early planted wheat fields emerged to good stands, continued to benefit from scattered showers received throughout the Plains. Planting activities continued until they were virtually halted due to wet fields in most areas. Oats also showed signs of good emergence throughout the Blacklands, South Central Texas. Planting remained active in areas where conditions allowed. Wheat 10% emerged, 7% 1993. Oats 14% planted, 12% 1993.

Commercial Vegetables: Rio Grande Valley onion, tomato planting got underway. Peppers, cucumbers, cabbage, fall watermelons made

good progress. Citrus harvest preparations continued. San Antonio-Winter Garden- planting of fall cabbage neared completion, as early planted fields continued to make good progress. Trans-Pecos preparation for fall onion planting got underway. East Texas- preparations for planting of fall vegetables continued. Disease problems were reported in some watermelon fields. Harvest of sweet potatoes was active. High Plains pumpkin harvest began. Carrot, cucumber, pepper harvest continued on a limited basis. Peaches producers prepared for fall spraying, fertilizing. Peach borer control continued. Pecans weevil pressure increased due to recent rains. Producers increased spraying activities in areas where weevil emerged. In South Central Texas, trees were dropping leaves due to aphid infestation. Producers continued to prepare for harvest throughout South Texas as most early varieties were ready.

Range and Livestock: Recent rains improved range, pasture conditions. In most areas pastures have started to green again, however, growth is slow in some areas due to cooler temperatures. Haying operations continued in most areas except for the Plains. Recent rains and cooler temperatures have helped livestock conditions improve. Supplemental feeding continued in a few areas but was declining.

UTAH: Temperature maximums 1° above normal; minimums 3° above normal. Precipitation light across most of the State with western, Dixie receiving no measurable precipitation.

Days suitable for fieldwork 6.6. Soil moisture 100% short. Irrigation water supply 41% very short, 58% short, 1% adequate. Stockwater supply 41% very short, 54% short, 5% adequate. Winter wheat planted for 1995 crop 41%, 57% 1993, 56% avg.; emerged for 1995 crop 2%. Corn matured 75%, 39% 1993, 43% avg.; harvested for silage 35% completed, 19% 1993, 33% avg. Alfalfa: 3rd cutting 89%, 72% 1993, 77% avg.; 4th cutting 17%, 11% 1993; harvested for seed 63%, 71% 1993. Apples harvested 24%, 12% 1993, 24% avg. Onions harvested 45%, 45% 1993, 49% avg. Potatoes harvested 30%, 22% 1993, 30% avg. Dry beans harvested 4%. Cattle moved from summer range 40%, 21% 1993, 25% avg. Sheep moved from summer range 30%, 21% 1993, 26% avg. Pasture, range feed conditions poor to fair. Major farm activities were harvesting alfalfa hay, oats, apples, onions, potatoes, corn silage, planting winter wheat. Ranchers continued to move cattle, sheep from summer pastures.

VIRGINIA: Temperatures 2° above normal across the State. Extremes 34°, 94°. Rainfall was also below normal.

Days suitable for fieldwork 6.6. Topsoil moisture was 27% very short, 65% short, 8%. Pasture feed 11% poor, 41% fair, 48% good. Livestock 13% fair, 80% good, 7% excellent. Corn for grain harvest 36%, 39% 1993, 34% avg.; silage harvested 50%, 57% 1993, 60% avg.; dented 92%, 96% 1993, 93% avg.; mature 74%, 87% 1993, 80% avg. Soybeans 14% poor, 50% fair, 35% good, 1% excellent. Peanut 50% fair, 50% good; dug 7%, 0% 1993, 8% avg.; combined 1%, 0% 1993, 4% avg. Flue tobacco harvested 71%, 69% 1993, 79% avg. Burley tobacco harvested 66%, 58% 1993, 74% avg. Fire tobacco harvested 87%, 67% 1993, 91% avg. Sun tobacco harvested 80%, 92% 1993, 89% avg. Fall apples harvested 25%, 25% 1993, NA avg. Winter apples harvested 11%, NA 1993, NA avg. Wheat seeded 7%, 2% 1993, 3% avg. Oats seeded 11%, 2% 1993, 7% avg. Barley seeded 11%, 5% 1993, 7% avg. Sweet potato harvest nearly 20% completed. Harvest snapbeans, cucumbers, tomatoes. Flue tobacco harvesting slowed by shortage of barn space. Cool nights helping apple color.

WASHINGTON: Temperatures 8° below normal to 3° above normal west; 6° below normal to 1° above normal east. Precipitation 0.08 to 1.09 in. west; none to 0.56 in. east.

Days suitable for fieldwork 6.5. Soil moisture 84% short, 16% adequate. Hay, other roughage supplies 7% very short, 8% short, 81% adequate, 4% surplus. Range, pasture feed 31% very poor, 43% poor, 14% fair, 12% good. Potatoes 5% fair, 95% good. Dry edible beans 8% fair, 92% good. Corn 10% fair, 86% good, 4% excellent.

Winter wheat 42% planted, 50% 1993, 47% avg.; 25% emerged, 25% 1993, 26% avg. Potatoes 33% harvested, 40% 1993, 36% avg. Corn silage 45% harvested, 38% 1993, 37% avg. Dry beans 50% harvested, 39% 1993, 37% avg. Alfalfa, third cutting, 88% completed, 76% 1993, 86% avg. Winter wheat seeding delayed eastern areas due to lack of moisture. Emergence spotty, portions of some fields will need to be reseeded. Seeding central areas generally winding down. Fourth cutting of alfalfa underway in both Franklin and Grant counties. Potato, dry bean, and corn silage harvest progressed. Apple picking active central regions. Red delicious apple harvest expected next week Chelan county. Vegetable harvest continued from Yakima, Franklin and Grant counties. Livestock feeding continued in many places across the State.

WEST VIRGINIA: Temperature 67°. Extremes 39°, 90°. Precipitation 0.47 in.

Days suitable for fieldwork 5.6. Soil moisture 96% adequate, 4% surplus. Hay 6% fair, 72% good, 22% excellent; second cutting 80%, 90% 1993, 84% avg; third cutting 70%, 75% 1993, 63% avg. Apples 70% poor, 30% fair. Corn 11% fair, 82% good, 7% excellent; dough stage 87%, 100% 1993, 90% avg.; mature 55%, 69% 1993, 54% avg.; harvested 15%, 25% 1993, 7% avg. Tobacco 100% good; harvested 65%, 60% 1993, 65% avg. Soybeans 9% fair, 91% good; dropping leaves 10%, 20% 1993. Pasture feed 10% fair, 60% good, 30% excellent; 97% of normal. Cattle 6% fair, 85% good, 9% excellent. Sheep 2% fair, 92% good, 6% excellent. Farm activities: Cutting hay, harvesting tobacco, corn silage, apples, clipping pastures, equipment maintenance.

WISCONSIN: Temperature 69°, 11° above normal. Extremes 42°, 93°. Precipitation 0.10 to 6.00 in. Heavy rains, up to 13.00 in., across northwestern, western parts of the State.

Days suitable for fieldwork 3.2. Soil moisture: 8% short, 58% adequate, 34% surplus. Pasture feed 85%, 85% 1993, 80% avg. General condition of crops: 1% poor, 3% fair, 78% good, 18% excellent. Corn in dough or beyond 94%, 71% 1993, 83% avg.; dent or beyond 78%, 41% 1993, 61% avg.; mature 24%, 8% 1993, 22% avg.; silage harvested 13%, 4% 1993, 11% avg.; 2% fair, 57% good, 41% excellent. Soybean 4% fair, 69% good, 27% excellent; leaves turned 74%, 48% 1993, 51% avg.; leaves shedding 26%, 11% 1993, 19% avg. Third cutting hay harvested 73%, 59% 1993, 59% avg. Heavy rains in the north brought fieldwork to a standstill. Downpours of up to thirteen inches in some northern areas caused widespread flooding. Crop progress jumped ahead of the 5-year average with the past few weeks of warm weather. Heavy rains brought harvesting of second, third crop hay to a standstill. Corn crop made great progress throughout the past week, remains in mostly good to excellent condition. Most farmers feel that the corn will be safe from frost damage in about a week. Soybeans are maturing quickly. Most soybean leaves have turned, many are starting to shed. Cranberry harvest will start soon. Tobacco harvest is finished with reports of a good crop.

WYOMING: Temperatures normal to above normal across State. Newcastle was the hot spot 9° above normal. Some precipitation statewide. Precipitation was above normal for the northern third, southwest portions of the State. Rest of the State had near normal to below normal precipitation. Alva, Sheridan, Sundance had the largest amounts of precipitation, each receiving about an inch.

Days suitable for fieldwork 6.4. Topsoil moisture 88% short, 12% adequate. Oats 97% harvested, 70% 1993, 88% avg. Barley 97% harvested, 84% 1993, 94% avg. Sugarbeets 1% harvested, 3% 1993, 3% avg. Dry beans 54% combined, 23% 1993, 34% avg. Corn 5% harvested, 0% 1993, 4% avg.; silage 68% harvested, 25% 1993, 46% avg. Third cutting of Alfalfa 83% complete, 18% 1993, 60% avg. Winter wheat seedings for 1995 89% planted, 57% 1993, 68% avg.; 51% emerged, 23% 1993, 29% avg. Winter wheat 9% poor, 89% fair, 2% good. Irrigation water supplies 64% short, 36% adequate. Cattle, calves moved from summer ranges 39%, 15% 1993. Sheep, lambs moved from summer ranges 35%, 17% 1993. Ranges, pasture feed very poor.

Resurgent El Niño Affects Pacific Basin Weather

Background: Warm phase conditions existed over the equatorial Pacific basin during much of 1991-93, one of the three longest El Niño episodes this century (see the May 3, 1994, issue of the WWCB, page 10). After a brief return to "normal" conditions during the autumn and winter of 1993-94, sea-level pressures began to run higher than normal in the western Pacific basin during the spring of 1994. Now many other oceanic and atmospheric signals are pointing toward the return of full-fledged warm phase conditions.

Weather Impacts: Two notable weather anomalies have resulted from resurgent warm phase conditions. Due to higher-than-normal surface pressures across the western Pacific basin, rainfall has been suppressed across Indonesia (and environs) and much of Australia. And in the central equatorial Pacific, an explosive hurricane season developed as a result of above-normal sea surface temperatures.

The western Pacific basin rainfall anomaly will be addressed in a future article. As for the central Pacific, three record-strength hurricanes and seven other tropical systems have been observed between 140°W and the International Date Line. Hurricanes Emilia and Gilma attained maximum sustained wind speeds of an estimated 160 mph within a 5-day period during July. Less than 1 month later, on August 11, John formed south of Mexico and rapidly intensified as it moved westward. John attained 175 mph winds as it moved well south of Hawaii on August 22. Three days later, a weakening John (100 mph winds) made a rare hurricane strike on Johnston Atoll, passing within 15 miles of the island. John crossed the Date Line into the western Pacific on August 28 and weakened below typhoon (hurricane) force on August 31, meandering for days before re-intensifying and accelerating northeastward. John finally returned to the central Pacific as a hurricane on September 8, and was declared extratropical a day later. John's 30-day reign

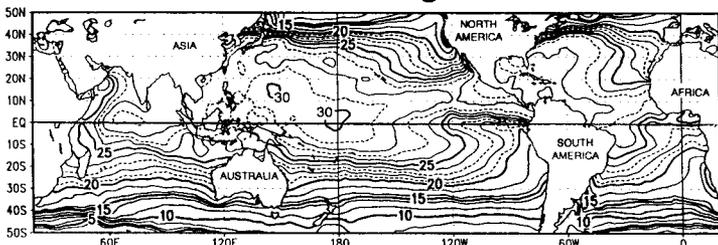
broke a northern hemisphere record for longevity by a named tropical system, formerly held by the Atlantic Hurricane Ginger (27 days) in 1971.

The following text and figures have been extracted from the latest ENSO (El Niño/Southern Oscillation) Advisory, issued September 13, 1994, by the Climate Analysis Center:

Most of the atmospheric and oceanic trends and anomaly patterns indicate that warm episode conditions are returning to the tropical Pacific. Features that support this conclusion include: the gradual eastward shift of the warmest equatorial water (greater than 30°C) in recent months to a position near the Date Line (fig. 1); a strongly negative Southern Oscillation Index for the last 6 months (fig. 2); weaker than normal low-level easterlies in the central and western equatorial Pacific; and a weakening of the eastern equatorial Pacific cold tongue. In the past, these features have collectively been good indicators of developing warm episodes.

A critical period in the development of warm episodes is the transition season September through November. During that period, the Southwest Monsoon is in transition from the summer to the winter phase, low-level westerly wind events typically become more common along the equator over the western Pacific, and tropical convection shifts southward to near the equator. As the convective activity shifts southward, it is greatly influenced by sea-surface temperatures (SSTs) and anomalies (fig. 3). The appearance of SSTs greater than 30°C and anomalies greater than +1°C along the equator in the vicinity of the Date Line in September 1986 and September 1991 were precursors of the enhanced convection that developed in the central equatorial Pacific during the October-December period in both years. Enhanced convection in the central equatorial Pacific is important for the development of the atmospheric circulation and precipitation anomaly patterns generally associated with warm episodes.

**Figure 1 Mean Sea Surface Temperature (°C)
August 1994**



**Figure 3 Sea Surface Temperature Anomaly (°C)
August 1994**

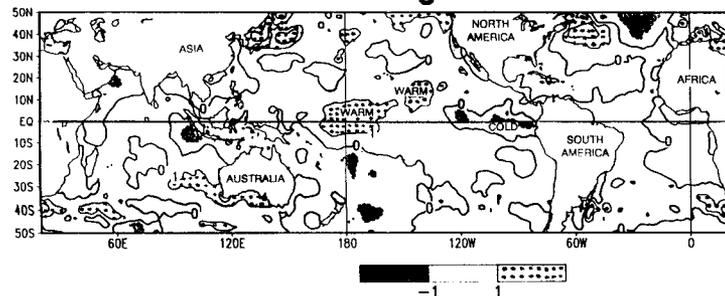
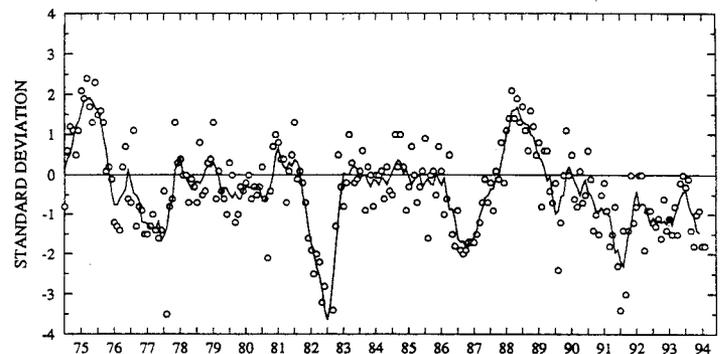


Figure 2

Five-Month Running Mean of the SOI



The Southern Oscillation Index (SOI) is the difference between the standardized sea level pressure anomalies at Tahiti and Darwin (Tahiti minus Darwin). Values are standardized by the mean 1951-1980 mean annual standard deviation. The circles indicate individual monthly means. The x-axis labels are centered on July.

International Weather and Crop Summary

HIGHLIGHTS

September 11 - 17, 1994

FSU-WESTERN: Drought over eastern Ukraine and southern Russia limited moisture for winter wheat planting.

EUROPE: Wet weather continued to slow crop harvesting.

SOUTH ASIA: Drier weather benefited oilseeds and cotton in central and western India.

EASTERN ASIA: Mostly dry weather favored maturing cotton, corn, and soybeans across the North China Plain.

SOUTHEAST ASIA: Heavy rain over Indochina benefited secondary grain and sugarcane but further hampered northern Vietnam's rice harvest.

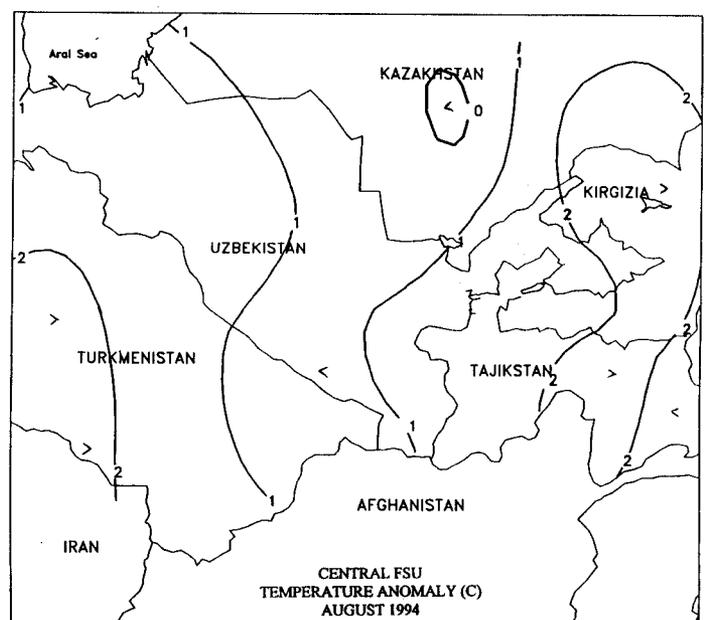
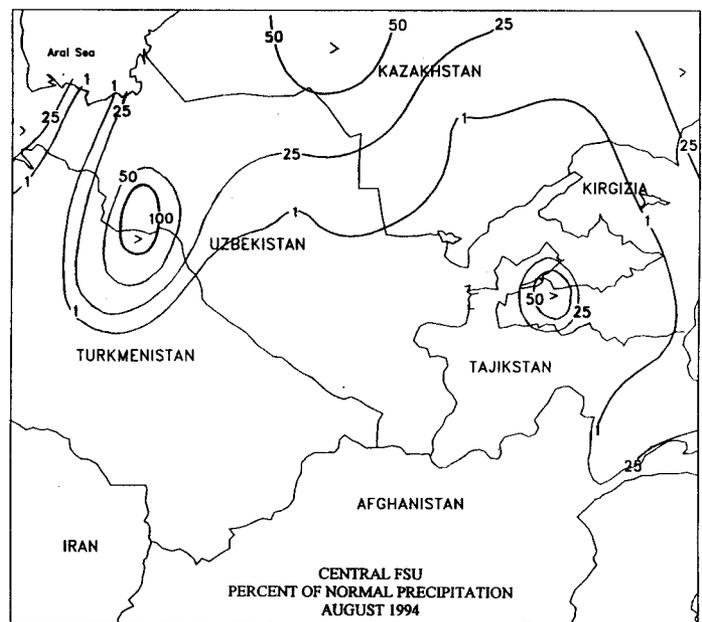
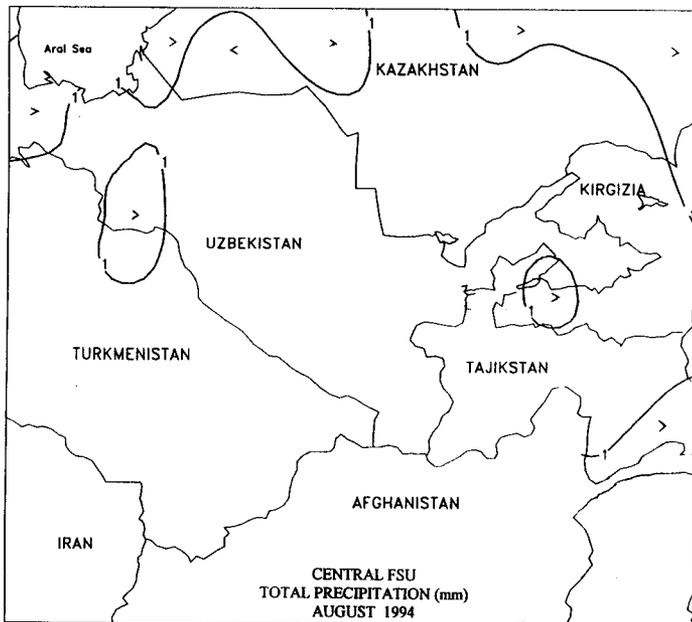
AUSTRALIA: Eastern drought continued to stress vegetative winter grains and pastures.

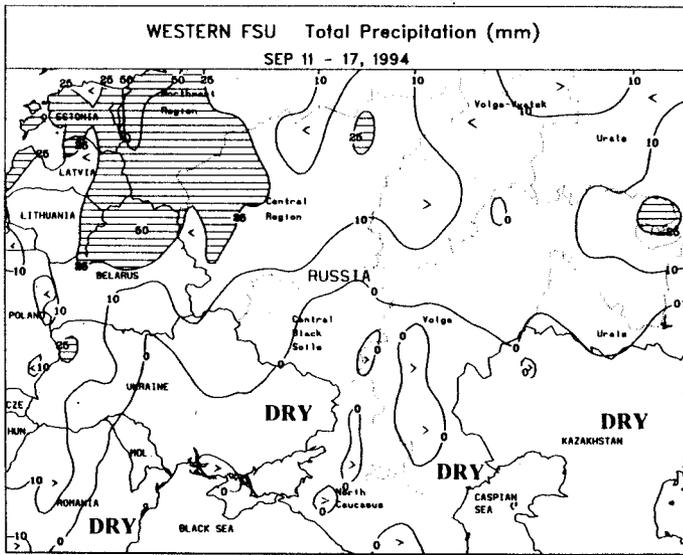
SOUTH AMERICA: Showers boosted topsoil moisture for soybean planting across most of southern Brazil.

MEXICO: Seasonal showers continued to benefit summer crops across the main corn belt.

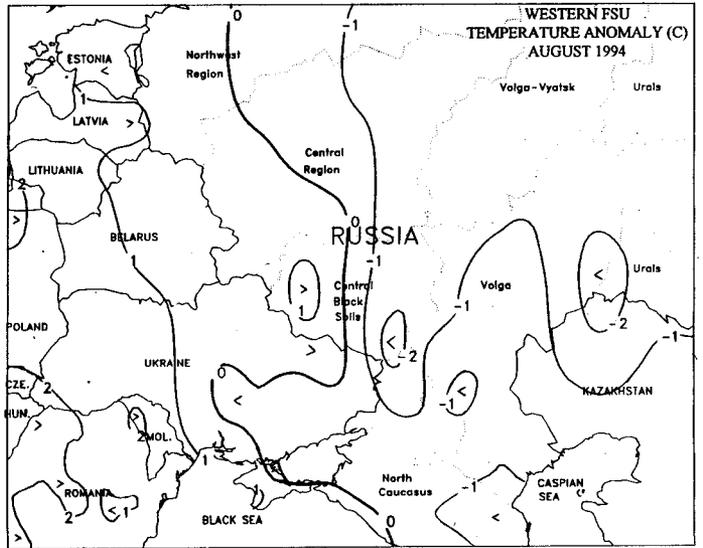
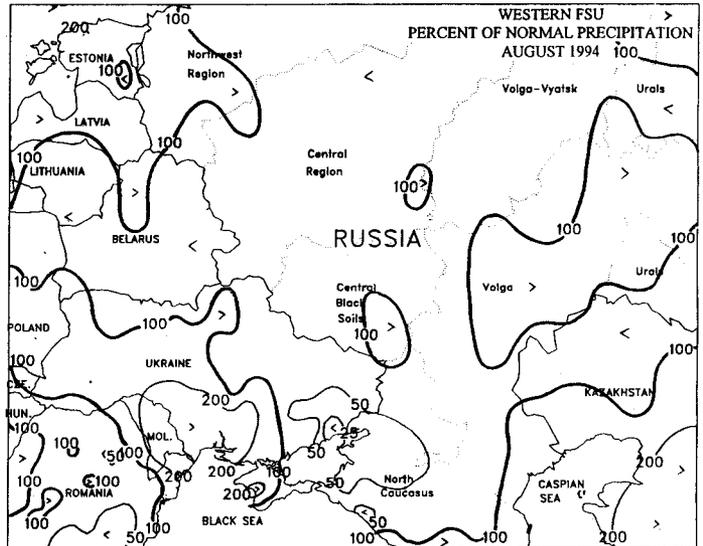
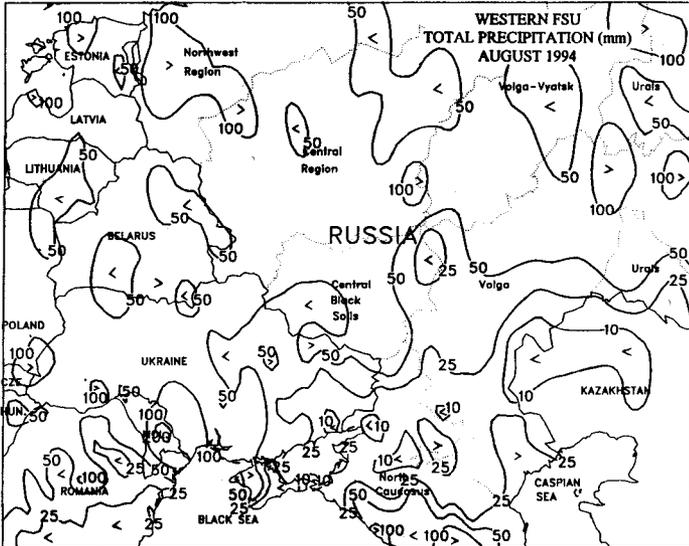
CANADA: Prairie grain and oilseed harvests progressed.

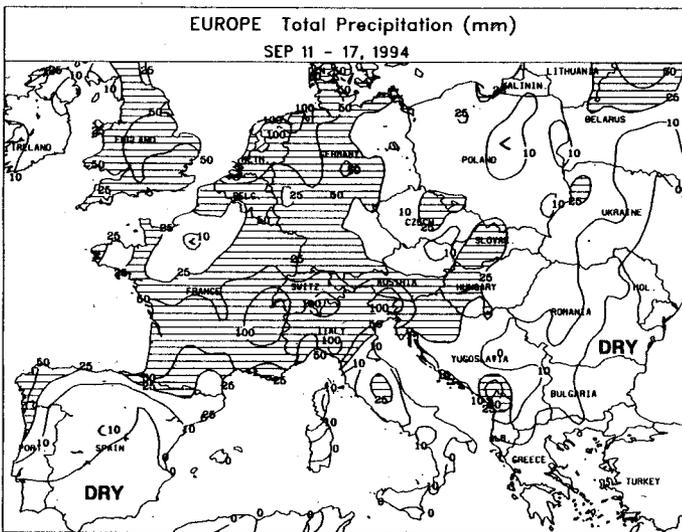
FSU-NEW LANDS: Cold, damp weather slowed spring grain harvesting in parts of Russia and Kazakhstan.



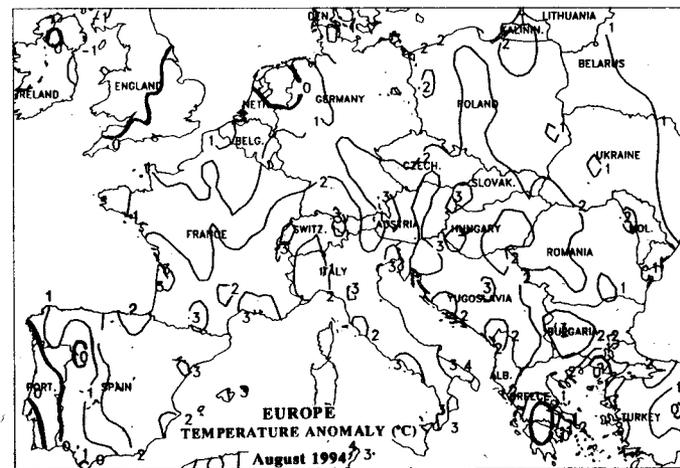
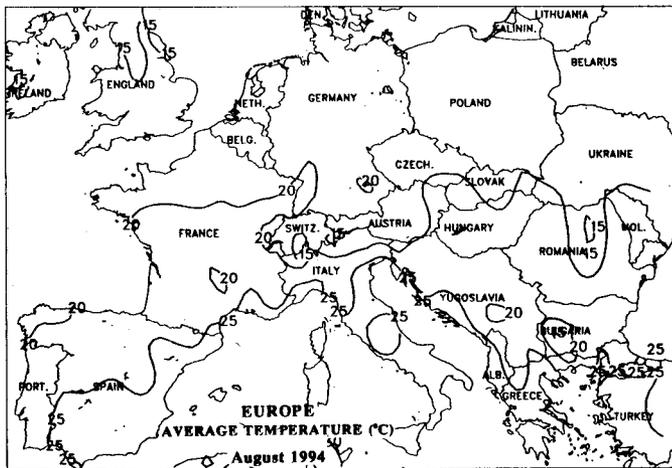
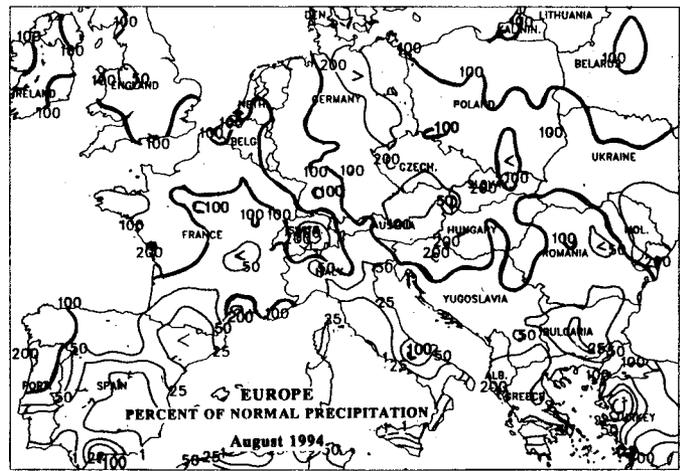
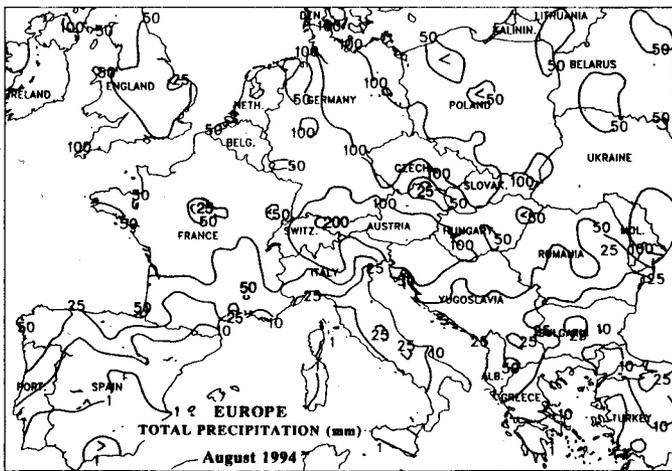


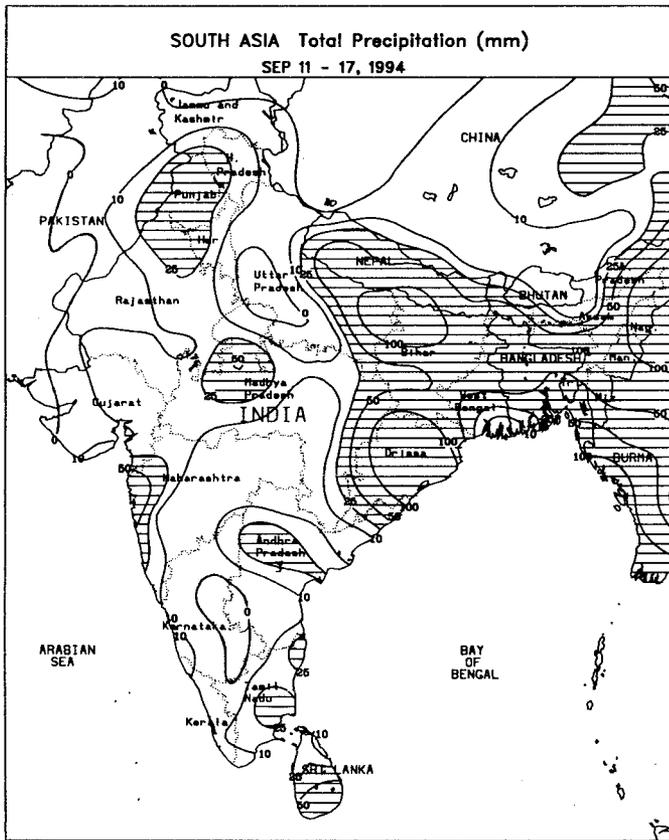
FSU-WESTERN: Mostly dry weather covered Russia and Ukraine, helping late spring grain harvesting in the north and corn and sunflower harvesting in the south. The exception was the Northwest and Central Region in Russia where frequent showers (10-50 mm) fell. Drought continued to limit moisture for winter wheat planting over eastern Ukraine and southern Russia (North Caucasus and lower Volga Valley). However, the dryness favored corn and sunflower harvesting. Weekly average temperatures were 2-6 degrees Celsius (C) above normal over the region. In August, frequent showers accompanied unseasonably cool weather from August 10-20 over northern Russia (Northwest Region, Central Region, Volga Vyatsk, and upper Volga Valley), slowing spring grain harvesting. However, generally dry weather since August 21 in these areas improved conditions for harvesting. In the Baltic States and Belarus, dry weather in early August was replaced by cooler, wetter weather that began around August 10 and continued until month's end. Farther south, unfavorable dryness continued in August over major corn-producing areas in eastern Ukraine and southern Russia, causing additional deterioration in conditions for filling corn. In southwestern Ukraine and Moldova, moderate to heavy rain from August 26-28 slowed further deterioration of drought-stressed corn and recharged topsoil moisture for upcoming winter wheat planting.



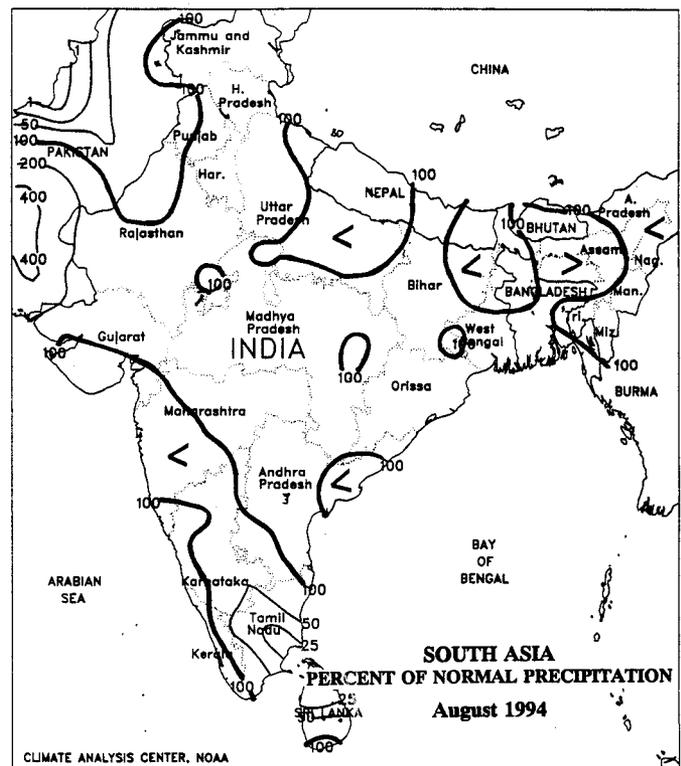
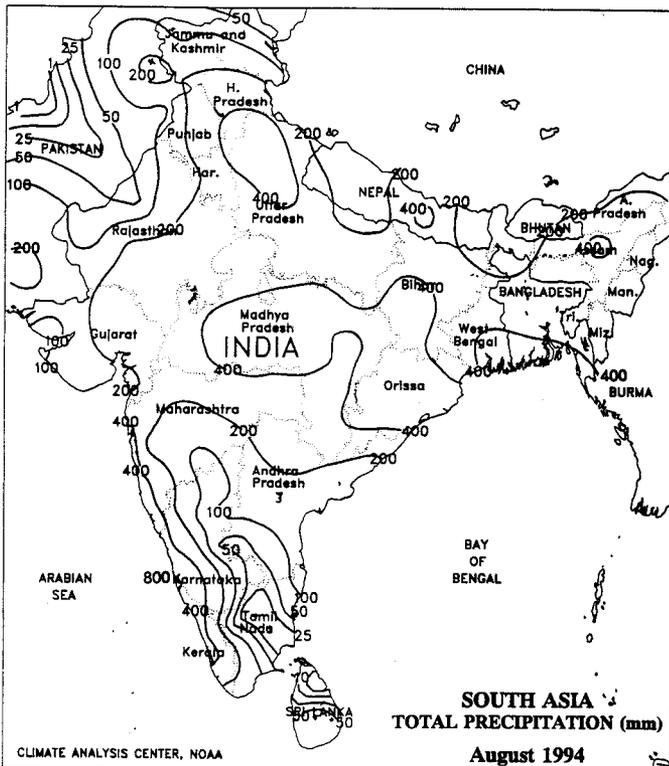


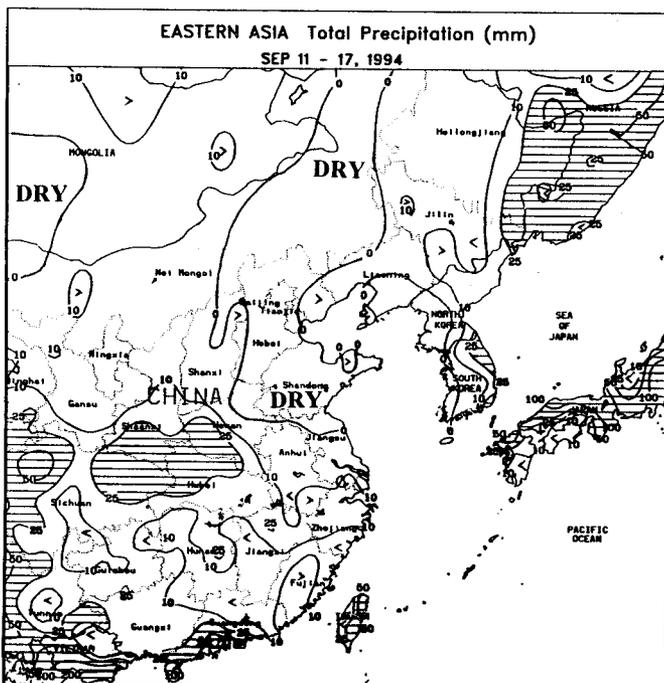
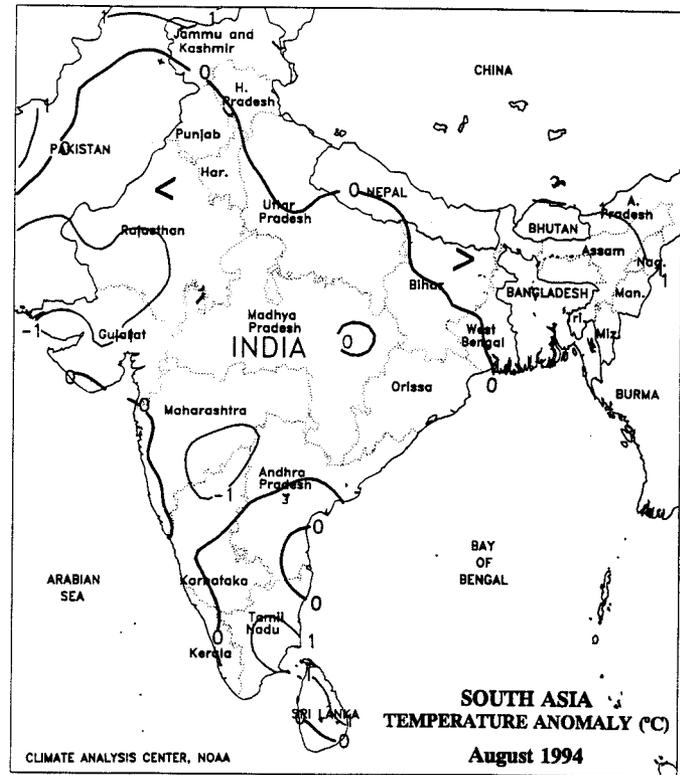
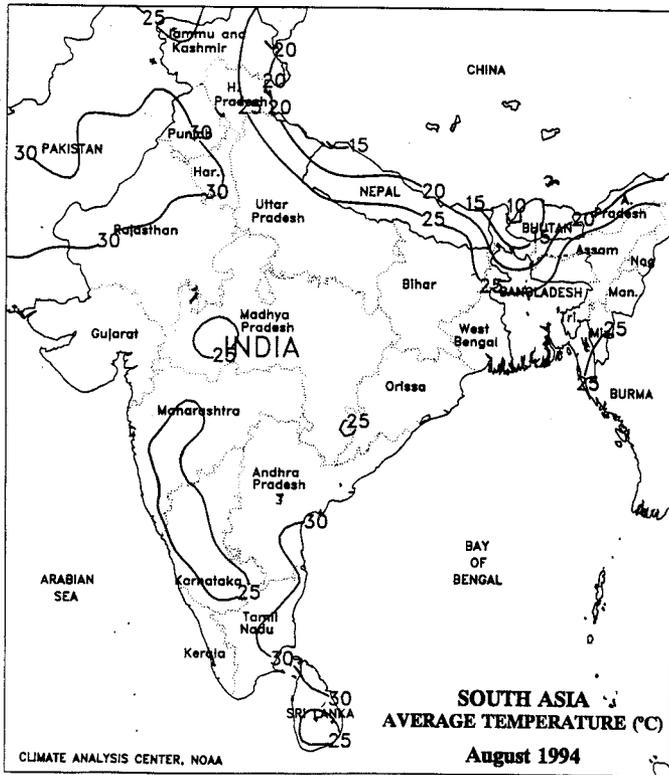
EUROPE: Wet weather continued to delay fieldwork over western Europe. Rainfall averaged 50-100 mm across southern France and northern Italy, impeding the early corn harvest. Similar amounts (50-100 mm) soaked southern England, the Netherlands, and northwestern Germany, interfering with late spring grain harvesting and winter oilseed planting. Widespread rain (25-50 mm) fell elsewhere across the west and extended into east-central Europe as well. Rainfall (10-45 mm) in Hungary came too late for mature corn. Variable showers (5-20 mm) moistened topsoils from Poland to northern Romania for winter crop planting. Rain (30-70 mm) also soaked Scandinavian crop areas. In contrast, dry weather continued over most of Spain. August rains alleviated dryness across most of Europe, aiding immature grains, oilseeds, and sugarbeets, but the moisture was untimely for crop harvesting.



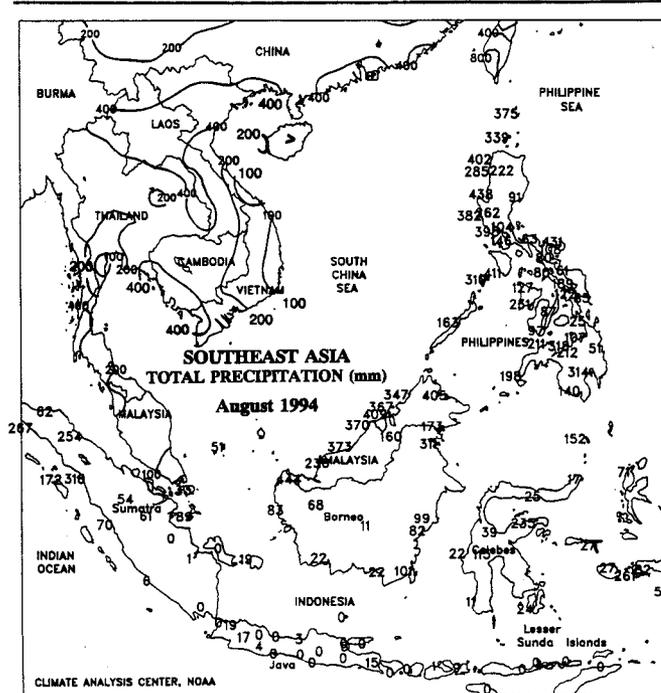
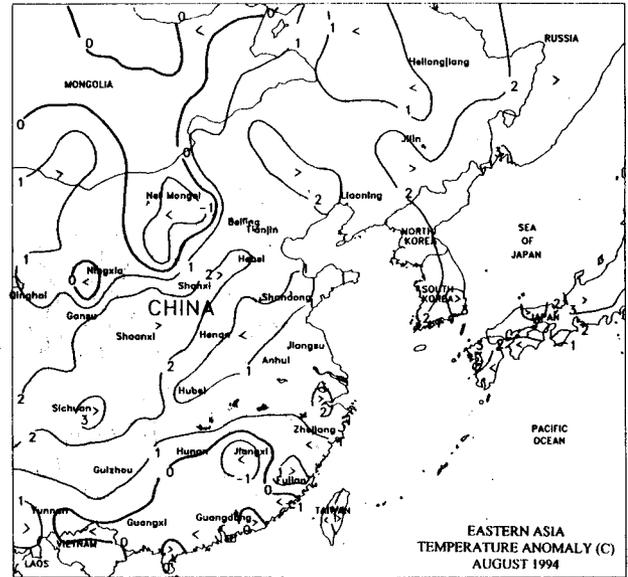
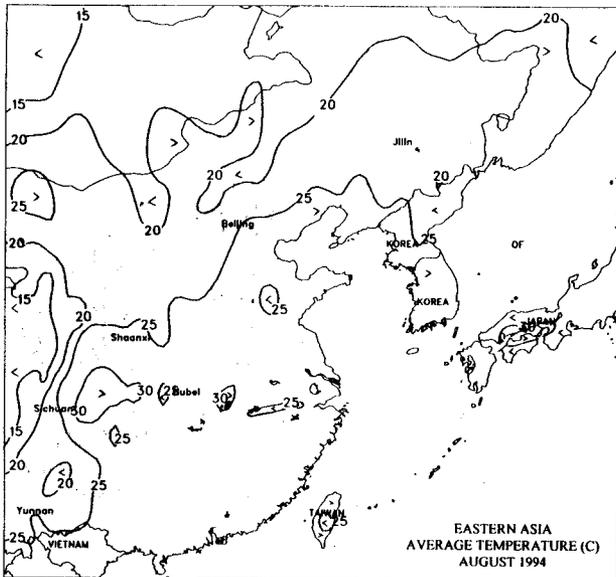
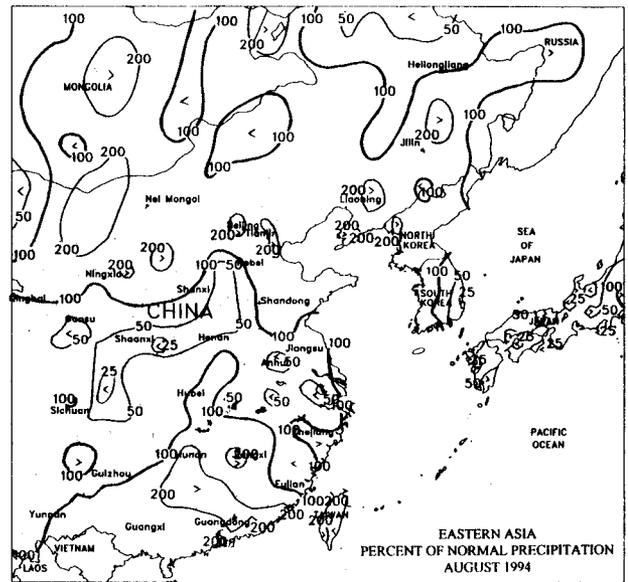
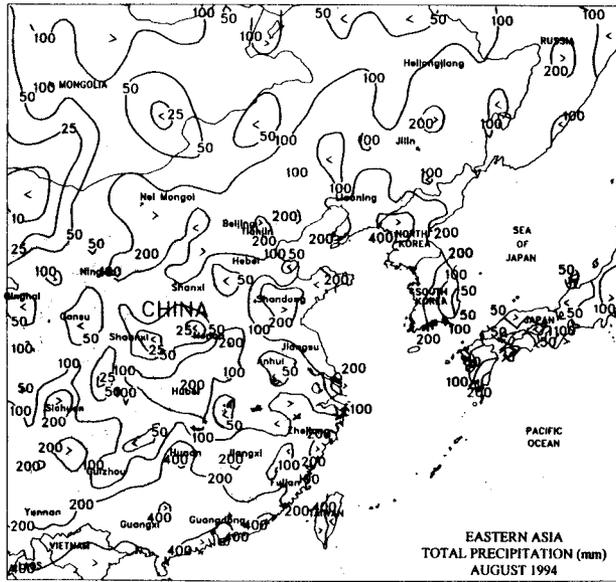


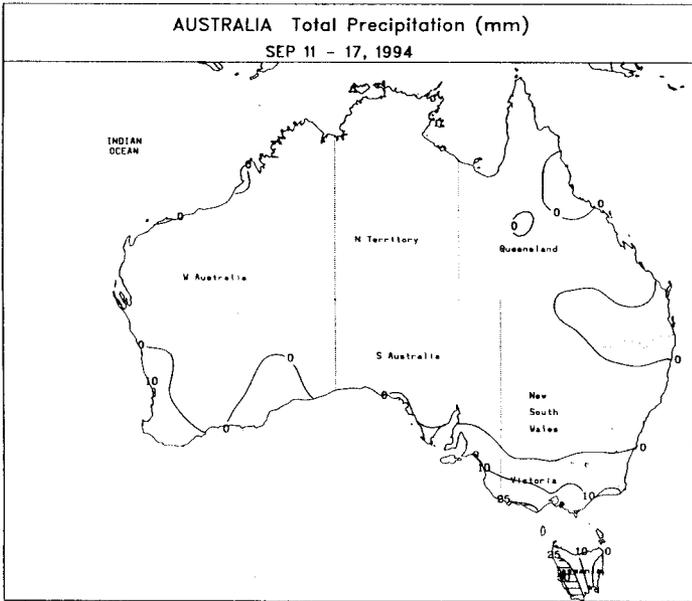
SOUTH ASIA: Much-needed, drier weather covered central and western India, as well as southern Pakistan, benefiting oilseeds and cotton. Pockets of moderate rain (25-59 mm) lingered in central soybean areas (Madhya Pradesh), but most other areas received less than 20 mm. To the north (Haryana, Punjab, and adjacent areas of Pakistan), moderate rain (35-54 mm) covered cotton that was likely beginning to open. Heavy showers (50-173 mm) centered over eastern rice areas (Orissa and Bihar) caused additional flooding. In August, frequent heavy showers, concentrated over central India, brought near- to above-normal rainfall to all major crop areas. By month's end, however, conditions were unfavorably wet for oilseed and cotton development, and additional flooding occurred in eastern rice areas. A spate of heavy showers in southern Pakistan raised concern for open-boll cotton. August temperatures averaged near normal.



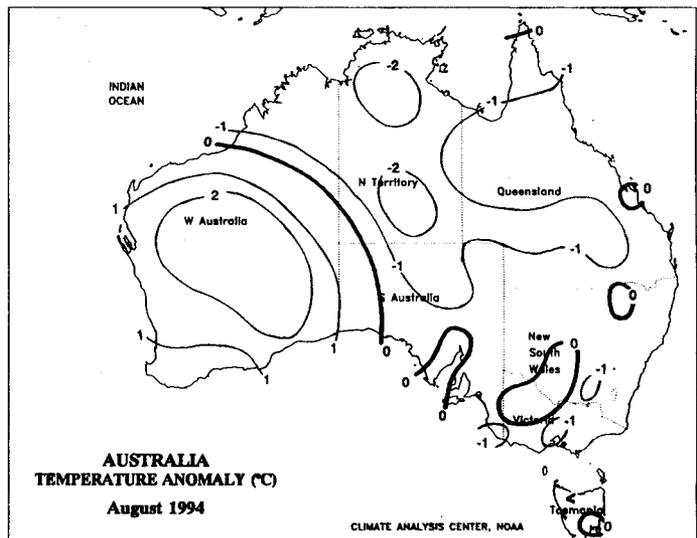
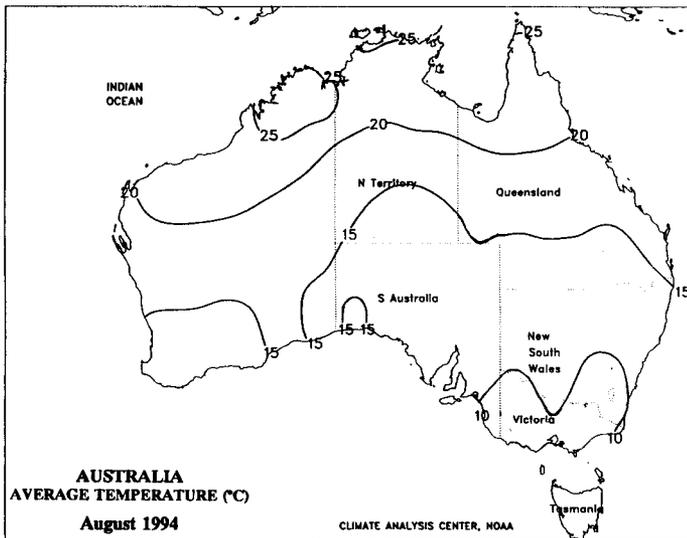
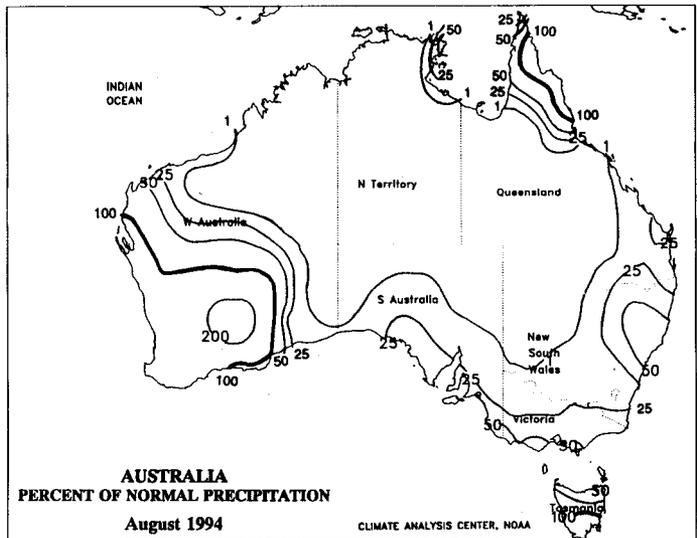
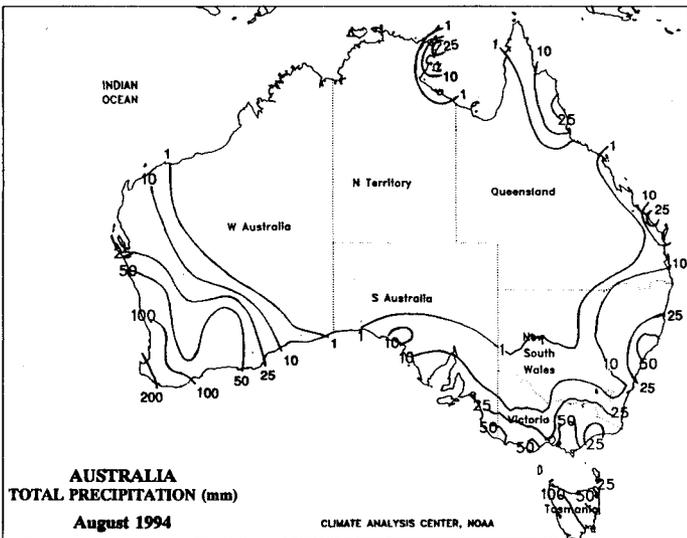


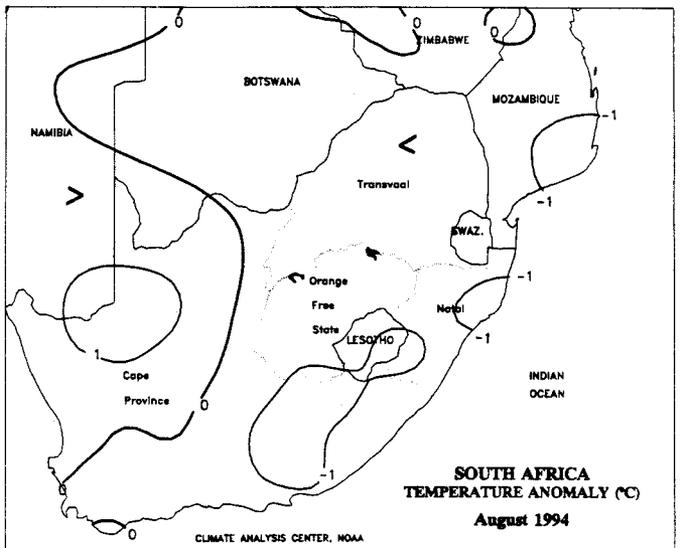
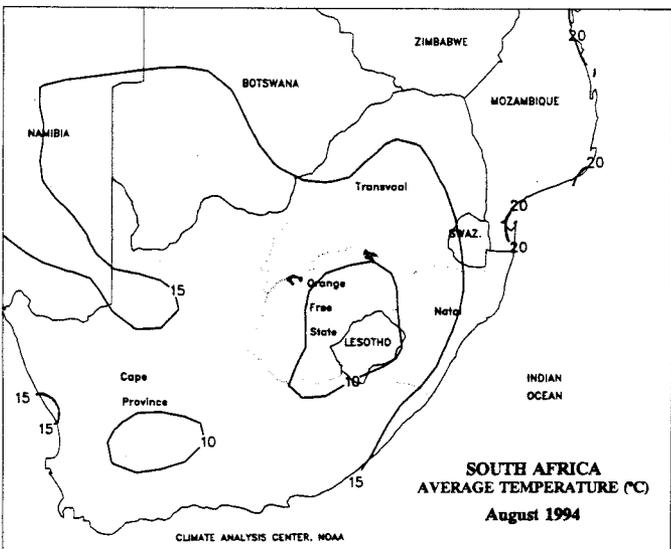
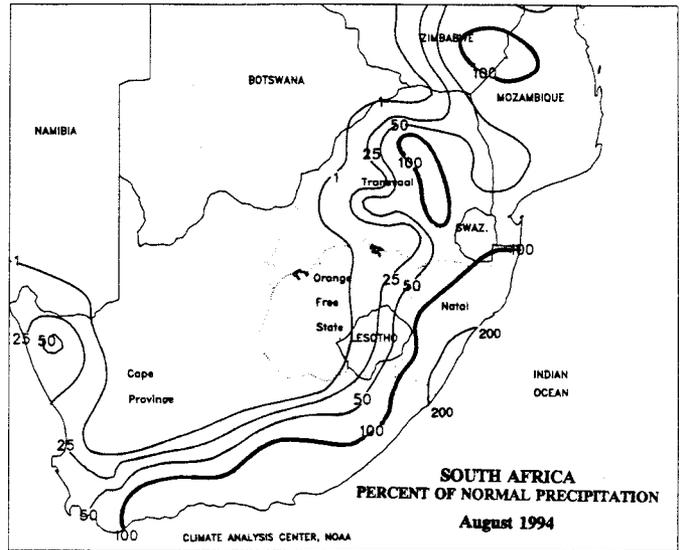
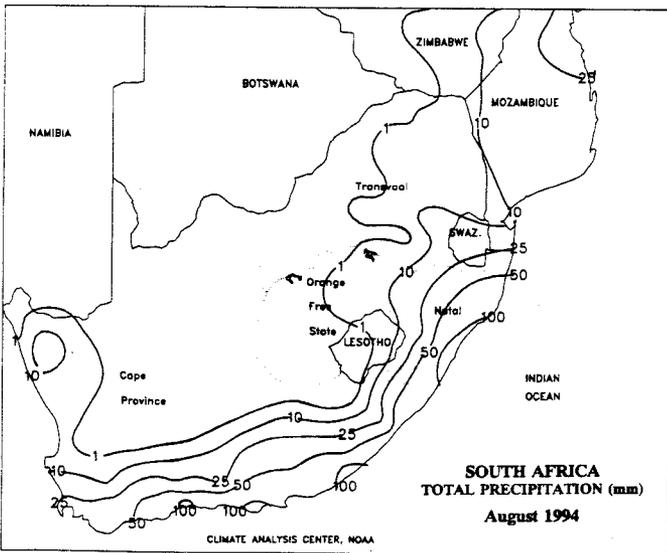
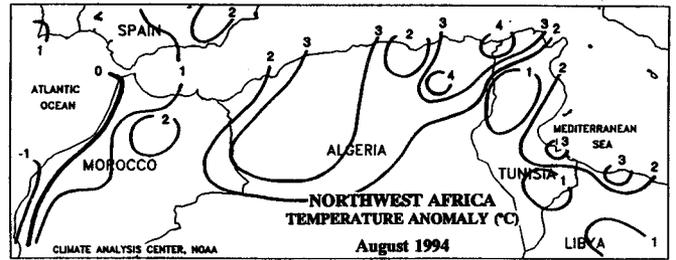
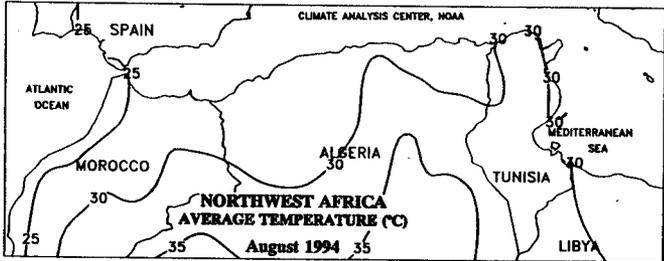
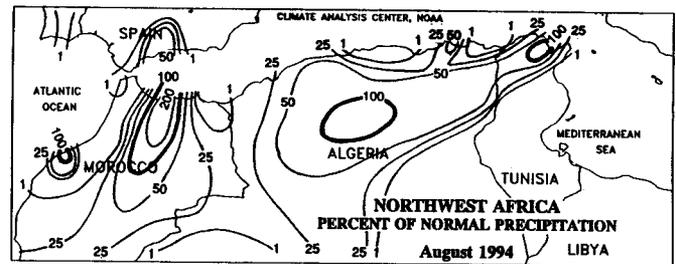
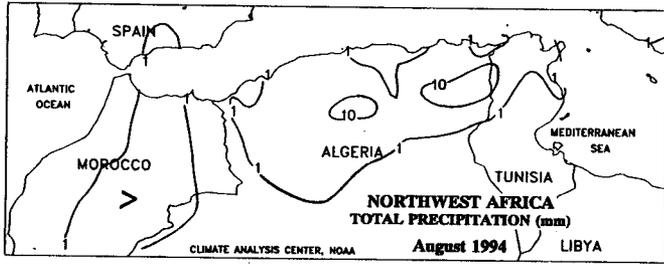
EASTERN ASIA: Mostly dry, cool weather prevailed across Manchuria and the North China Plain, favoring maturing corn, cotton, and soybeans. Widespread light to moderate rain (10-40 mm) covered central China (western Henan, Shaanxi, Hubei, and eastern Sichuan), increasing topsoil moisture for winter wheat planting, but slowing summer crop harvesting. Sunnier weather, with only scattered light rain (5-15 mm), prevailed across southern China, aiding maturing late double-crop rice. Weekly temperatures averaged 2-4 degrees C below normal across most of eastern China. Dry weather favored maturing rice across most of South Korea, but moderate to heavy rain (25-100 mm) slowed rice maturation across central and northern Japan. During August, near- to above-normal rainfall aided reproductive to filling summer crops across Manchuria and the northern portions of the North China Plain. Below-normal rainfall was reported from the lower Yangtze Valley westward into eastern Sichuan. Above-normal rainfall caused some additional flooding across southern China. Western South Korea reported near-normal rainfall while the rest of South Korea and most of Japan reported below normal rainfall. Monthly temperatures averaged 2-3 degrees C above normal across South Korea and Japan.

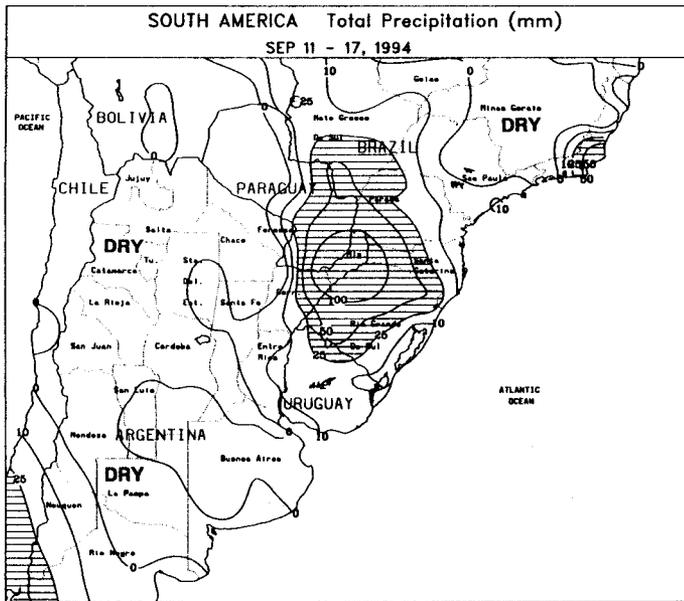




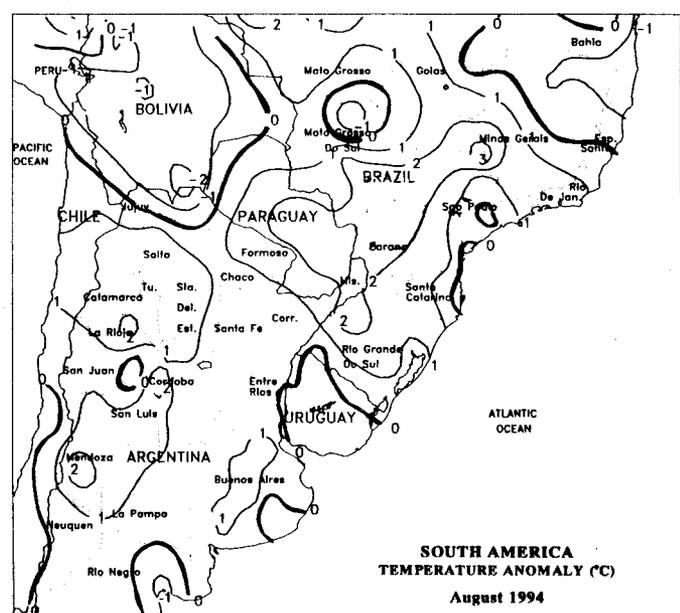
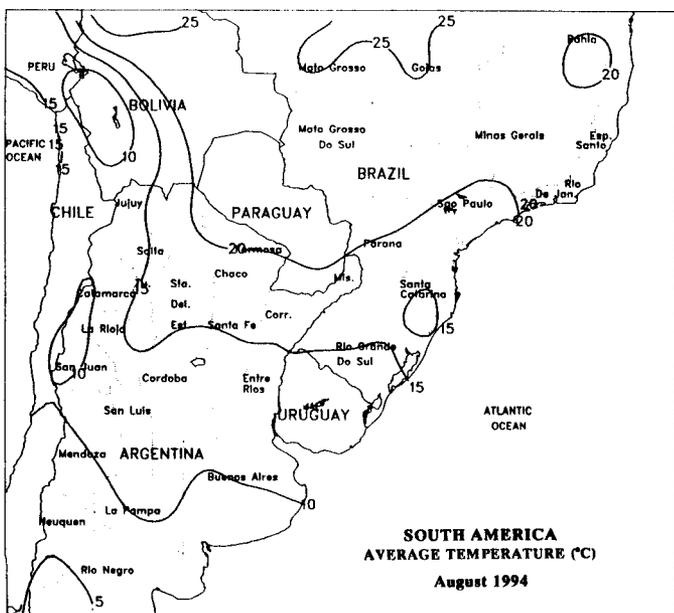
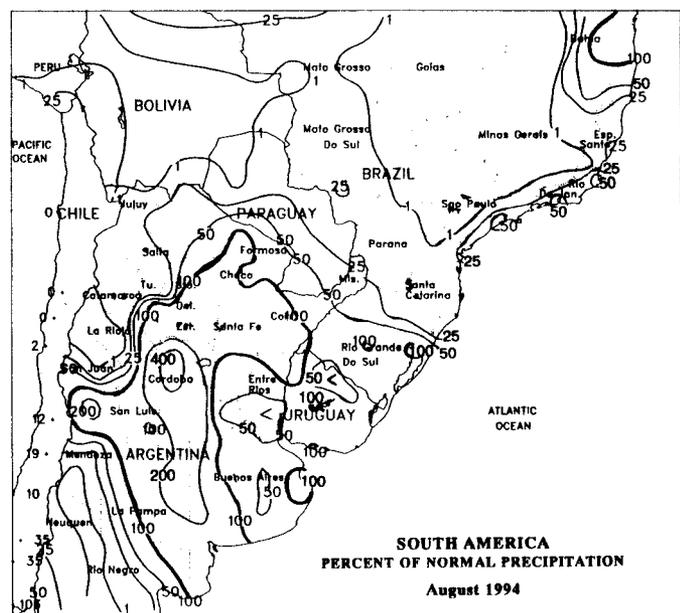
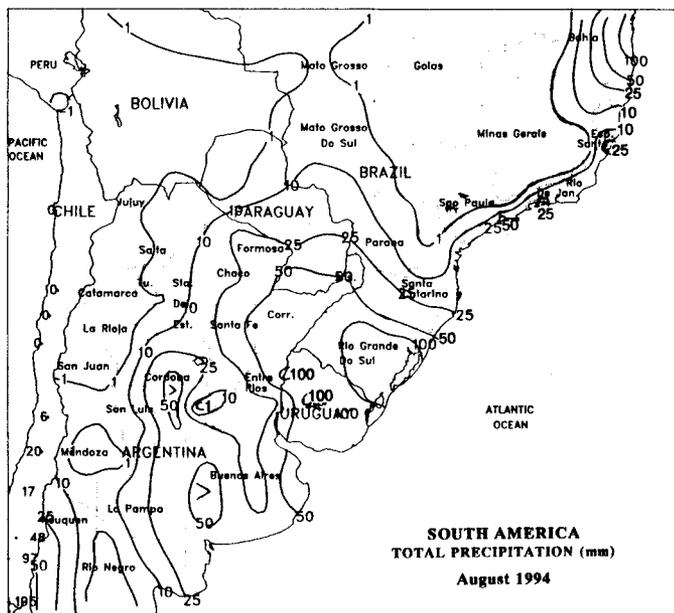
AUSTRALIA: Little or no rain fell across southern Queensland and New South Wales as the drought continued to stress vegetative winter grains and pastures. Dry weather also prevailed in South Australia and northern Victoria. This region has trended dry recently, but it had received more rain from June to August than the drought-stricken east. Southern Victoria received light to moderate rain (6-25 mm), aiding winter grains and pastures. Western wheat areas reported scattered light rain (less than 10 mm), but soil moisture is adequate for vegetative winter grains. Weekly temperatures averaged near normal across most winter grain areas. During August, the western wheat areas received normal rainfall. Across the southern and eastern wheat areas, August rainfall averaged 10 to 40 percent of normal. Most of southern Queensland received little or no rain for the month (less than 10 percent of normal). Mostly dry weather during August favored sugarcane harvesting across the northeast coast of Queensland, except in the extreme northern sugar areas (near Cairns), where near-normal August rainfall slowed sugarcane harvesting.

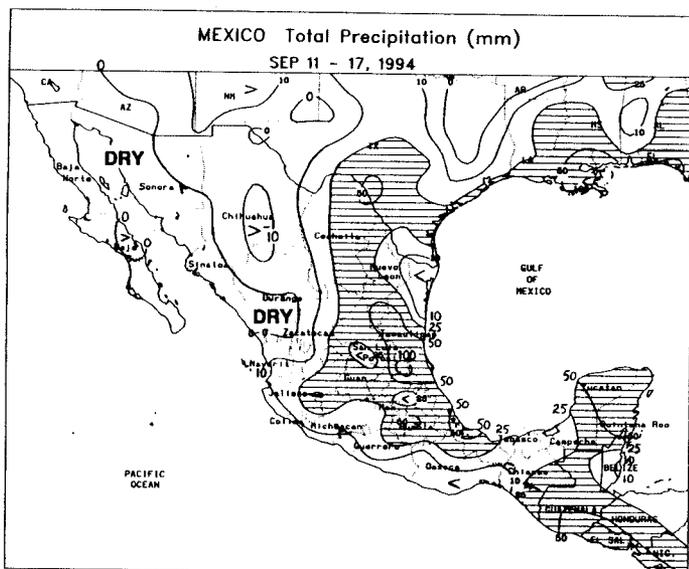




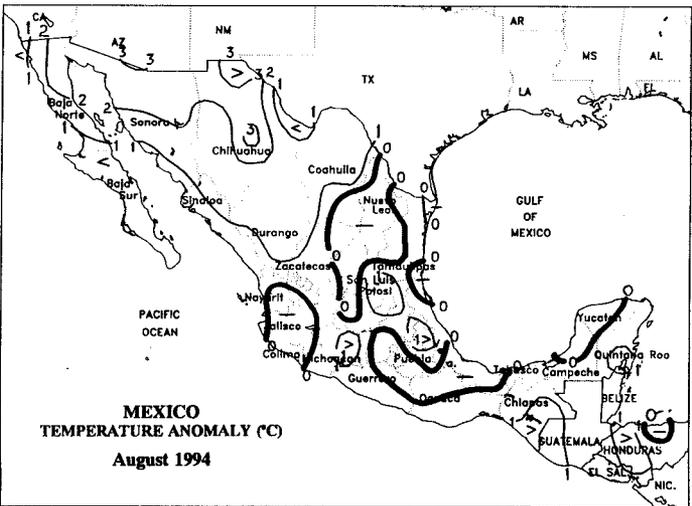
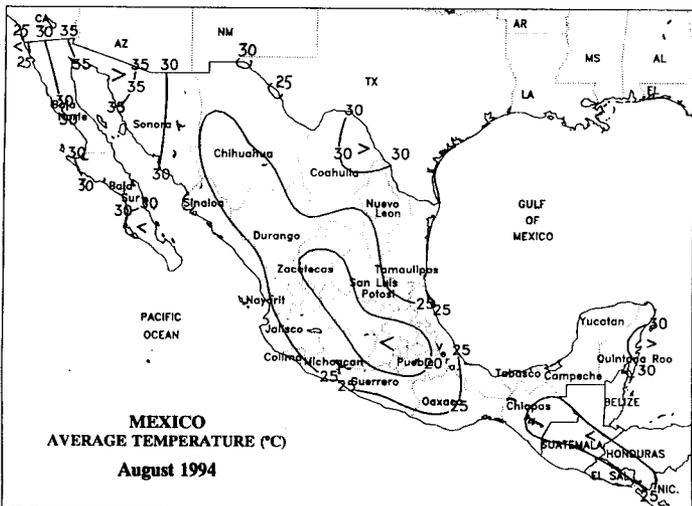
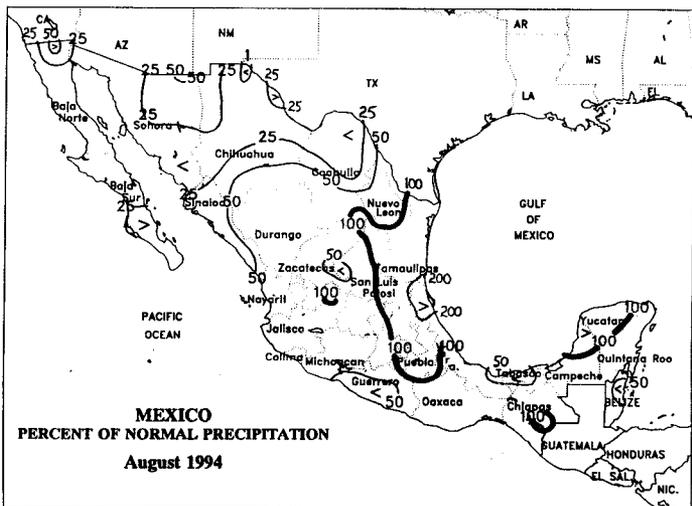
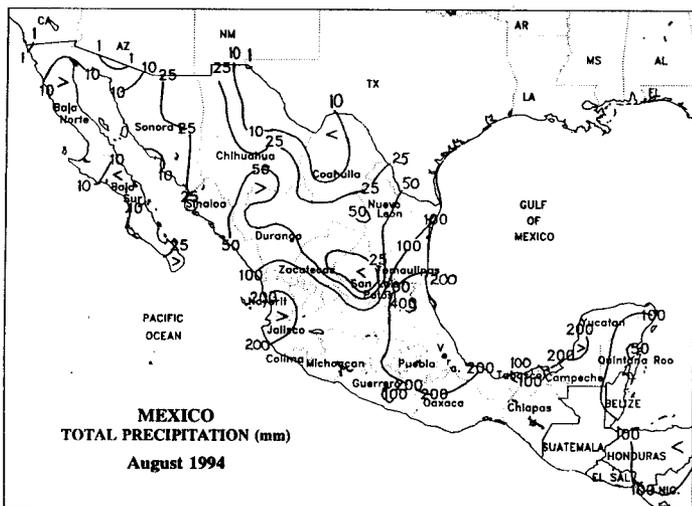


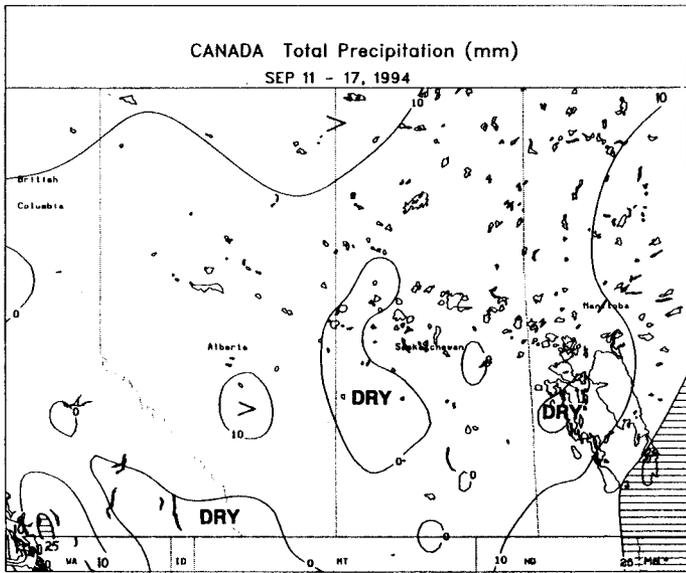
SOUTH AMERICA: In southern Brazil, widespread showers (20-80 mm) fell across Rio Grande do Sul, Santa Catarina, and Parana, increasing topsoil moisture for soybean and corn planting but slowing early wheat harvesting. Dry weather continued across northern Sao Paulo and southern Minas Gerais, where rain is needed for coffee development. In Argentina, scattered light rain (less than 10 mm) fell across Buenos Aires province. Adequate soil moisture continued across most crop areas of Argentina, favoring vegetative winter wheat and early summer crop planting. Weekly temperatures averaged 1-2 degrees C above normal across the region. During August, dry weather (less than 5 mm) prevailed across south-central Brazil (Goias, most of Sao Paulo, and western and central Minas Gerais). Below-normal rainfall was reported elsewhere in southern Brazil, except for southeastern Rio Grande do Sul, which reported near-normal rainfall. In Argentina, most areas experienced near to slightly above-normal rainfall, keeping soil moisture supplies adequate. Only portions of southern Santa Fe and eastern Buenos Aires received below-normal rainfall.



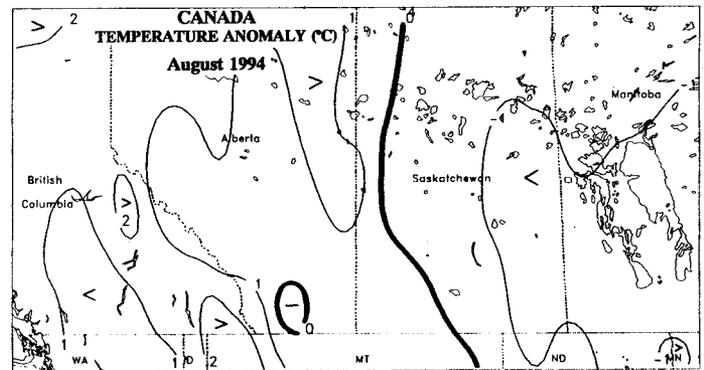
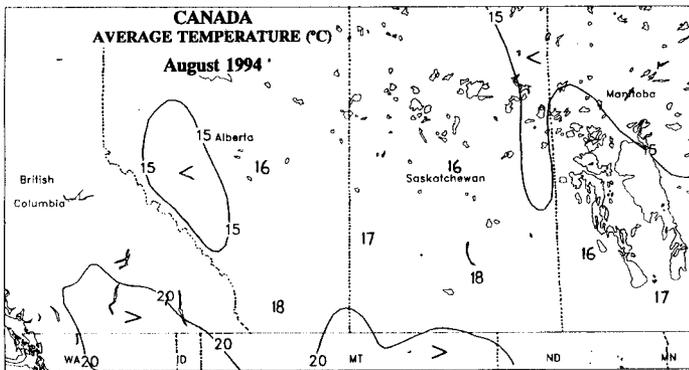
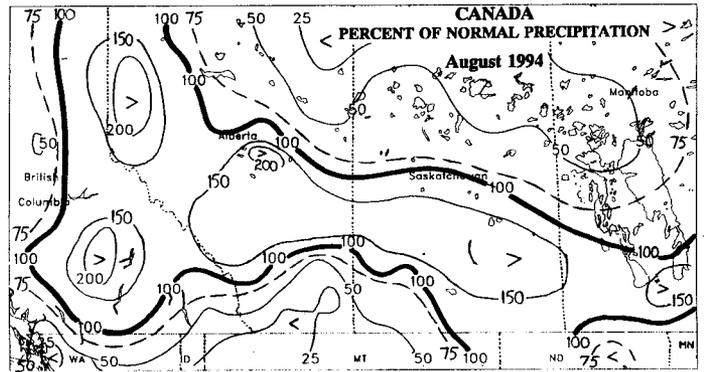
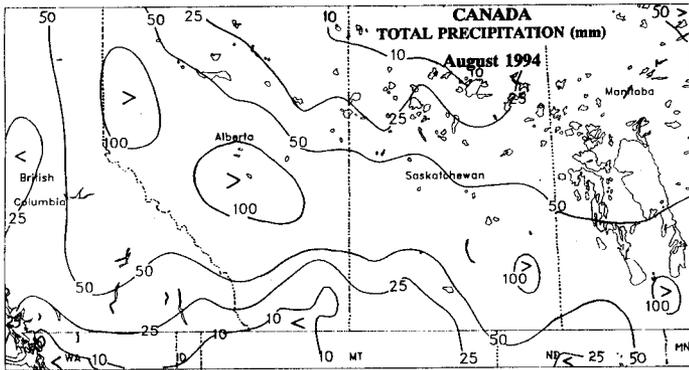


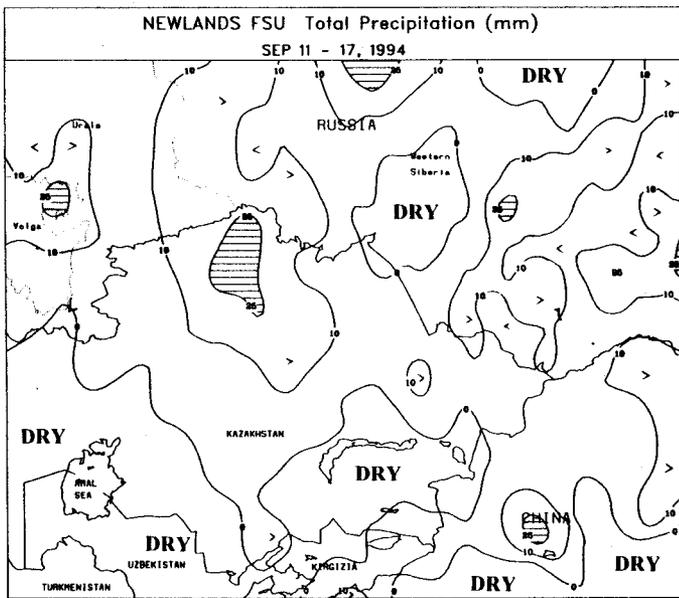
MEXICO: Widespread showers (15-50 mm) continued across the Southern Plateau corn belt, benefiting immature corn and sorghum. Heavier showers (50-100 mm) benefited citrus, coffee, and sugarcane across east-central Mexico (southern Tamaulipas and northern Veracruz). Showers (20-50 mm) also extended across the Yucatan Peninsula, aiding vegetative corn. Weekly temperatures averaged near normal across the main corn belt. During August, rainfall averaged near to below normal (60-85 percent of normal) across the western corn belt (Bajío) and near to above normal (100-180 percent of normal) across the eastern corn belt. Northeastern and east-central Mexico received near- to above-normal rainfall, replenishing reservoirs. The Yucatan Peninsula reported near- to below-normal August rainfall.



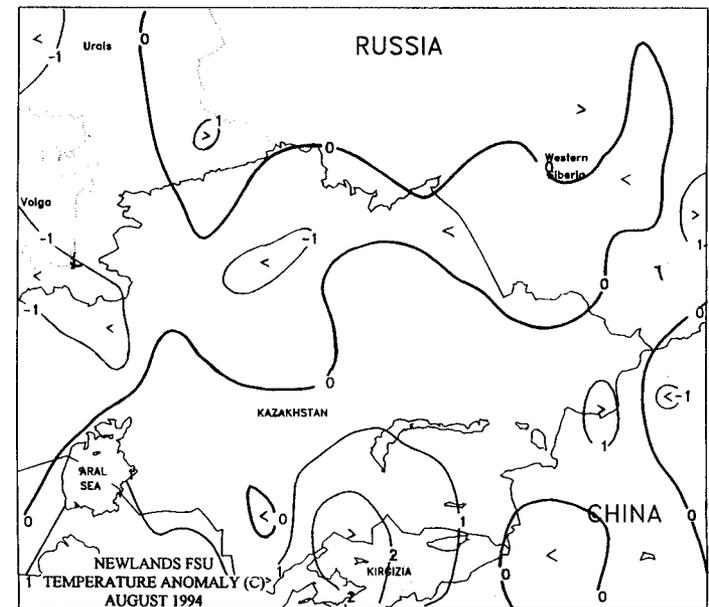
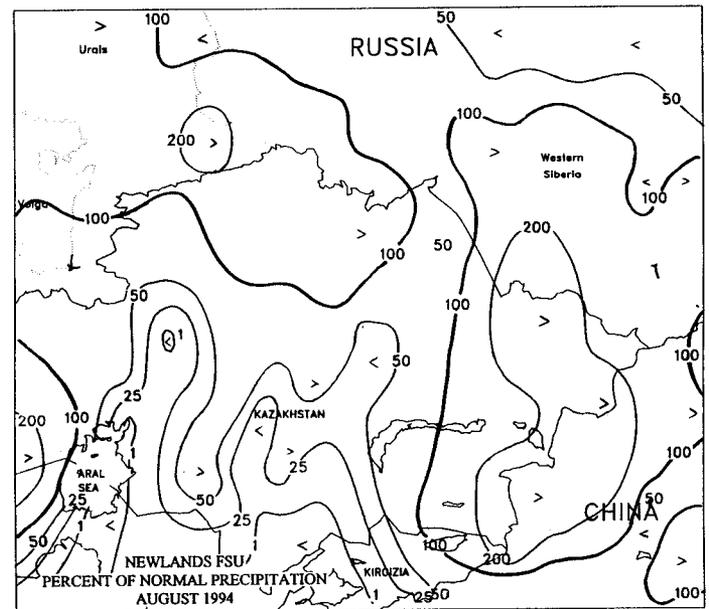
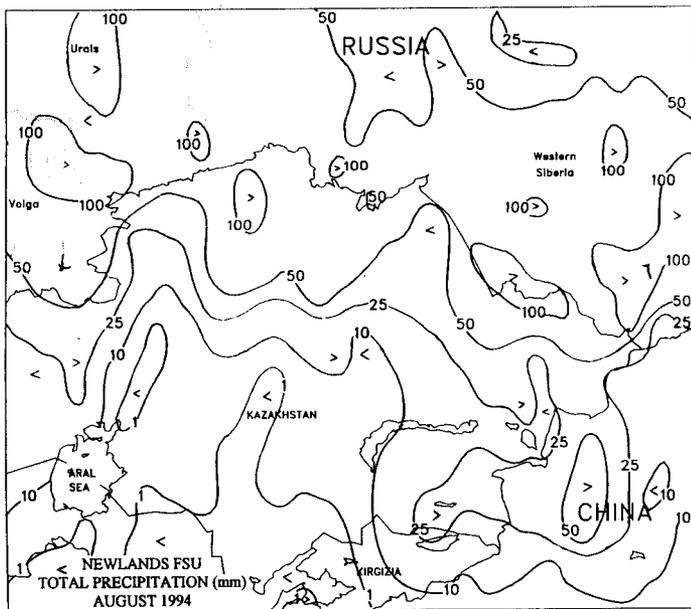


CANADA: Mostly dry, mild weather aided Prairie rain and oilseed harvests, although moderate showers (10-25 mm or more) caused some delays in sections of Alberta and Manitoba. Temperatures 3-5 degrees C above normal aided crop dry down. Minimum temperatures of 0 to 2 degrees C were recorded across northern crop areas, but the lack of a hard freeze so far this season has been favorable for unharvested canola. In Ontario and Quebec, scattered showers (10-43 mm) benefited immature summer crops. During August, an active storm track brought frequent, above-normal rainfall to crop areas of the central Prairies. The moisture benefited immature crops, but by month's end, wetness prevented early harvests. End-of-month scattered frost had no major impact on maturing crops. August rainfall and temperatures were favorable for corn and soybean in Ontario and Quebec.





FSU-NEW LANDS: Harvest activities are normally well underway over the region. Frequent showers (10-30 mm) were accompanied by unusually cold weather over northern and central Kazakhstan, slowing spring grain harvesting. However, dry weather over eastern Kazakhstan favored harvesting. In Russia, light showers (around 10 mm) over the Urals caused only minor delays in the harvest. Further east, cool, damp weather in Western Siberia, Russia slowed harvesting. Extreme minimum temperatures dropped below freezing (-1 to -3 degrees C) as far south as central Kazakhstan. However, the cold weather had little impact on mature spring grains. In August, although wet weather favored filling spring grains in Kazakhstan and Russia, unseasonably cold weather slowed crop development.



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(Continued from front cover)

snow was reported on Monday at several locations in the central Sierra Nevada. Two days later, up to 3 inches of snow fell on Wyoming's Big Horn range. However, the storm provided limited relief from ongoing drought across the West. Nevertheless, an 87-day spell of dry weather ended at Burns, OR with 0.04 inch of precipitation on September 11. After the storm moved into the northern Plains, sub-freezing morning temperatures were common in mountain-valley and basin locations. Lows included 29°F in Ely, NV on Wednesday, and 27°F at Alamosa, CO on Thursday.

On Monday, rain developed from North Dakota to Wisconsin. Little change was observed until Thursday, when the storm and its associated warm front departed the region. Storm-total rainfall included 4.54 inches in Bismarck, ND, 3.06 inches in Minneapolis, MN, and 1.93 inches in Madison, WI. Bismarck set a 24-hour rainfall record for September, with 4.34 inches on September 14-15.

South of the warm front, a warm, dry airmass remained in place until late in the week. Waterloo, IA measured a daily-record high of 94°F on Wednesday. A day later, Roanoke, VA attained a daily-record high

with 91°F. But heavy rain plagued Florida, where weekly totals included 6.80 inches in Tallahassee, 5.59 inches in West Palm Beach, and 3.87 inches in Miami. Rainfall intensified across the Central Gulf Coast States late in the week as a weak low-pressure system formed in the northern Gulf of Mexico and moved inland over Louisiana. New Orleans, LA recorded 3.23 inches of rain. Prior to the system's Friday morning landfall, tides ranged up to 3 feet above normal in Louisiana and Mississippi. Once inland, the circulation center turned northeastward, spreading rain across the interior Southeast. Atlanta, GA tallied 4.73 inches during the 48 hours ending at 8 a.m. on Sunday.

Farther west, widespread rain fell across the southern Plains for the third consecutive week. A cold front's approach triggered mid- to late-week showers, which amounted to 2.06 inches in Tulsa, OK and 1.35 inches in Amarillo, TX. Higher totals in southern Texas included 3.59 inches in Corpus Christi and 1.35 inches in San Antonio. The same cold front crossed the Northeast on Saturday, dumping more than 1 inch of rain on Scranton, PA. Meanwhile, warm weather returned to the Northwest, where daily records topped 90°F on Friday in Oregon at Eugene (91°F) and Portland (92°F).

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