

# 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

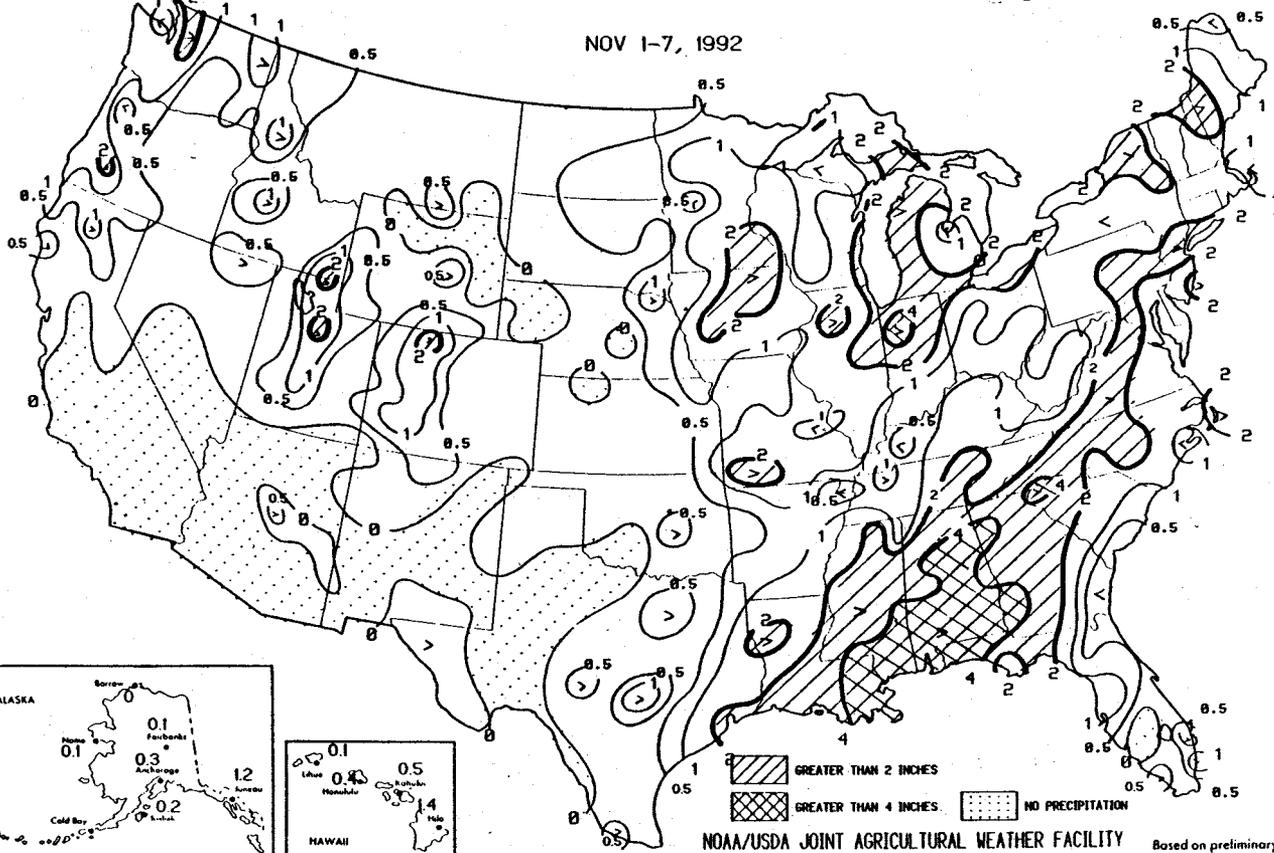
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November 10, 1992

## TOTAL PRECIPITATION, INCHES

NOV 1-7, 1992



NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY

Based on preliminary reports

## HIGHLIGHTS

November 1 - 7, 1992

A train of storms supplied heavy snow to the Rockies and the Upper Midwest, and heavy rain to the eastern half of the Nation. After midweek, sub-freezing cold poured as far south as central Texas and southern Mississippi. Early in the week, heavy rains disrupted harvest and fieldwork activities from the Corn Belt southward to the Gulf coast. Rainfall topped 2 inches in locations such as Waterloo, IA, and Indianapolis, IN. Although significant rainfall ended on Monday in the Corn Belt, a persistent combination of low temperatures and snow showers kept fieldwork at a minimum thereafter. Farther west, a developing winter storm dumped up to 4 feet of snow in the Colorado Rockies, and more than 3 feet on Wyoming's Big Horn Mountains. Heavy snow arrived on Monday in the North Central States, leaving the Dakotas and Minnesota under a wintry mantle. Duluth, MN, noted nearly 9 inches of snow on Monday and more than 5 inches on Tuesday. Meanwhile, a cycle of heavy rain spreading from

(Continued to p. 20)

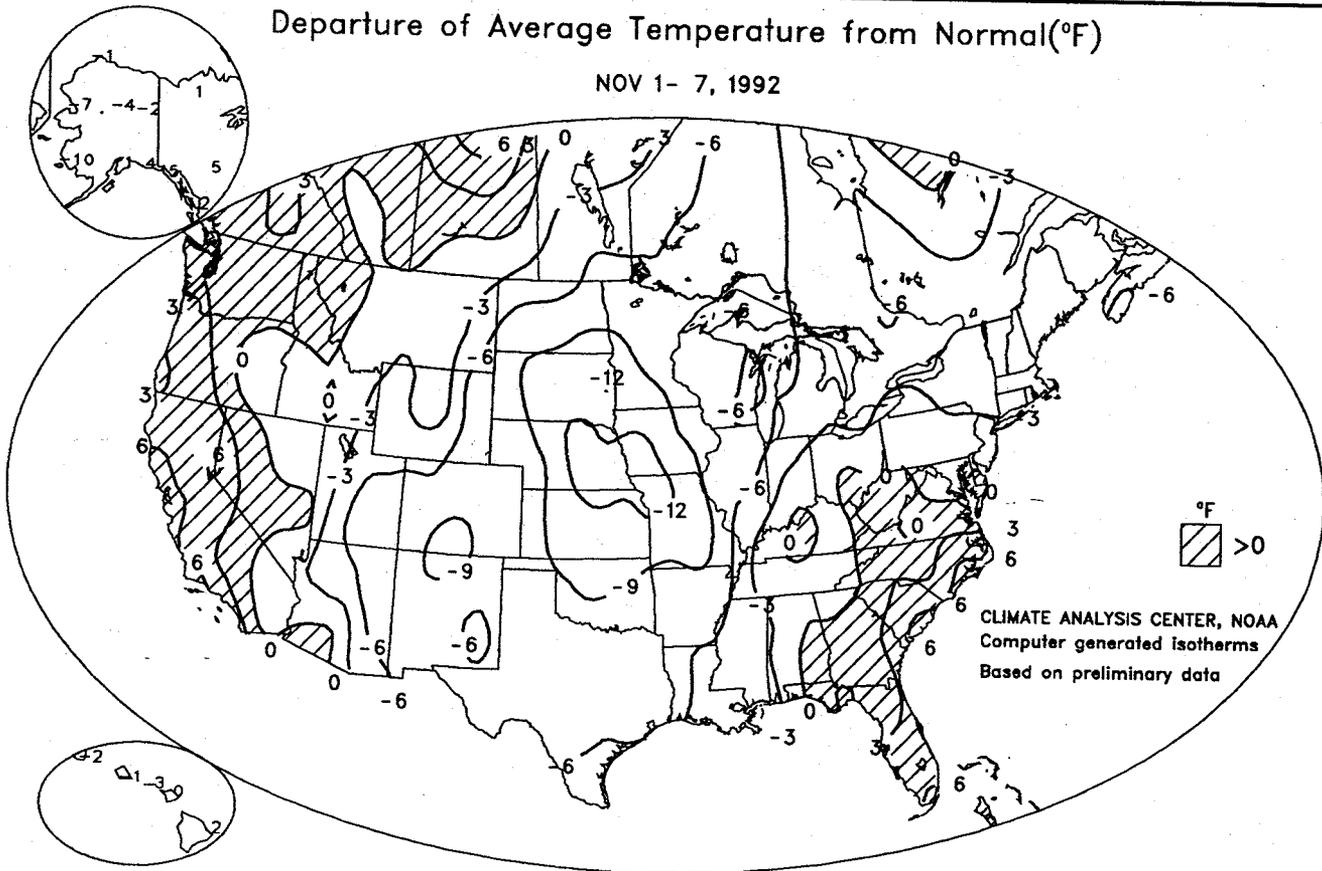
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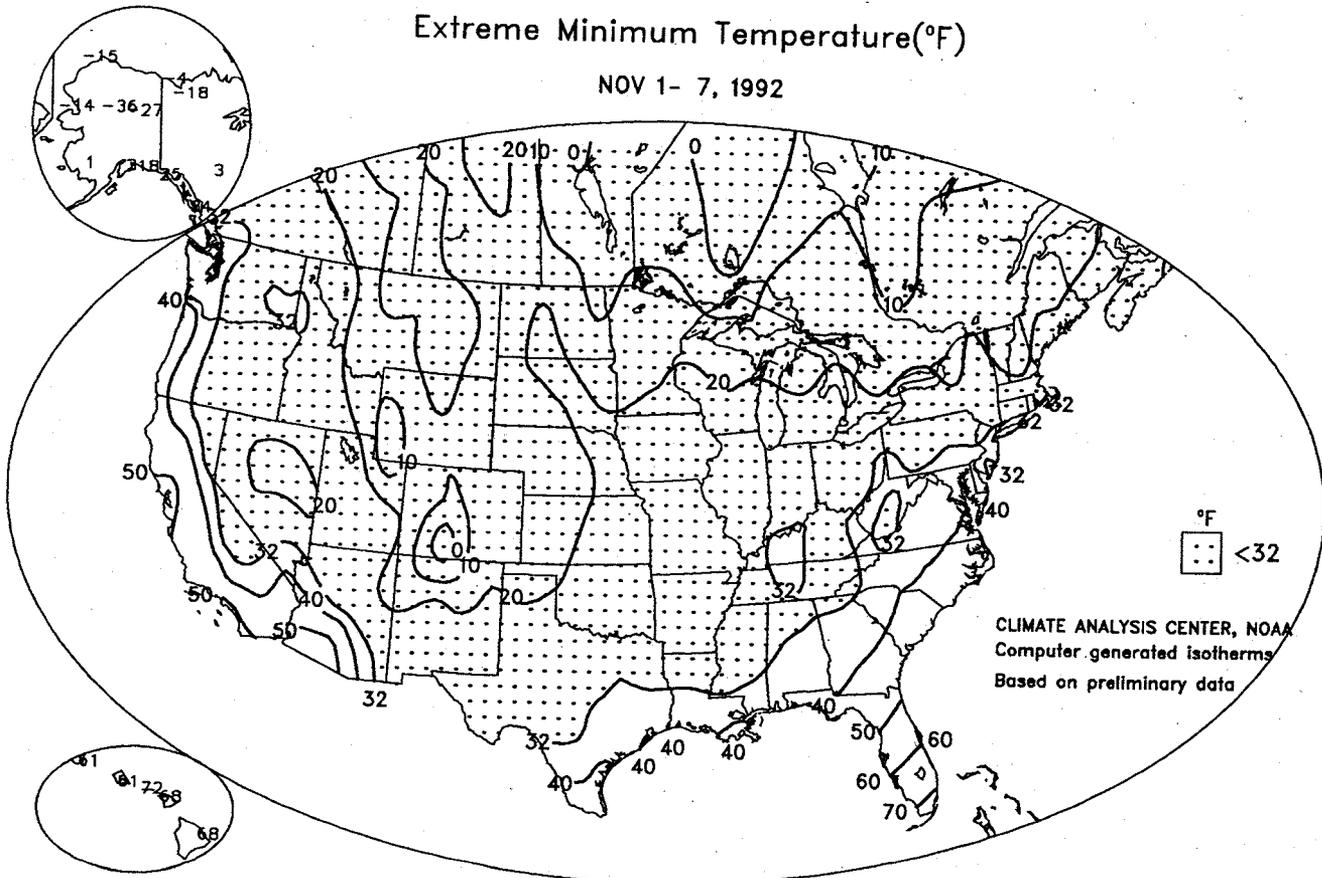
Departure of Average Temperature from Normal(°F)

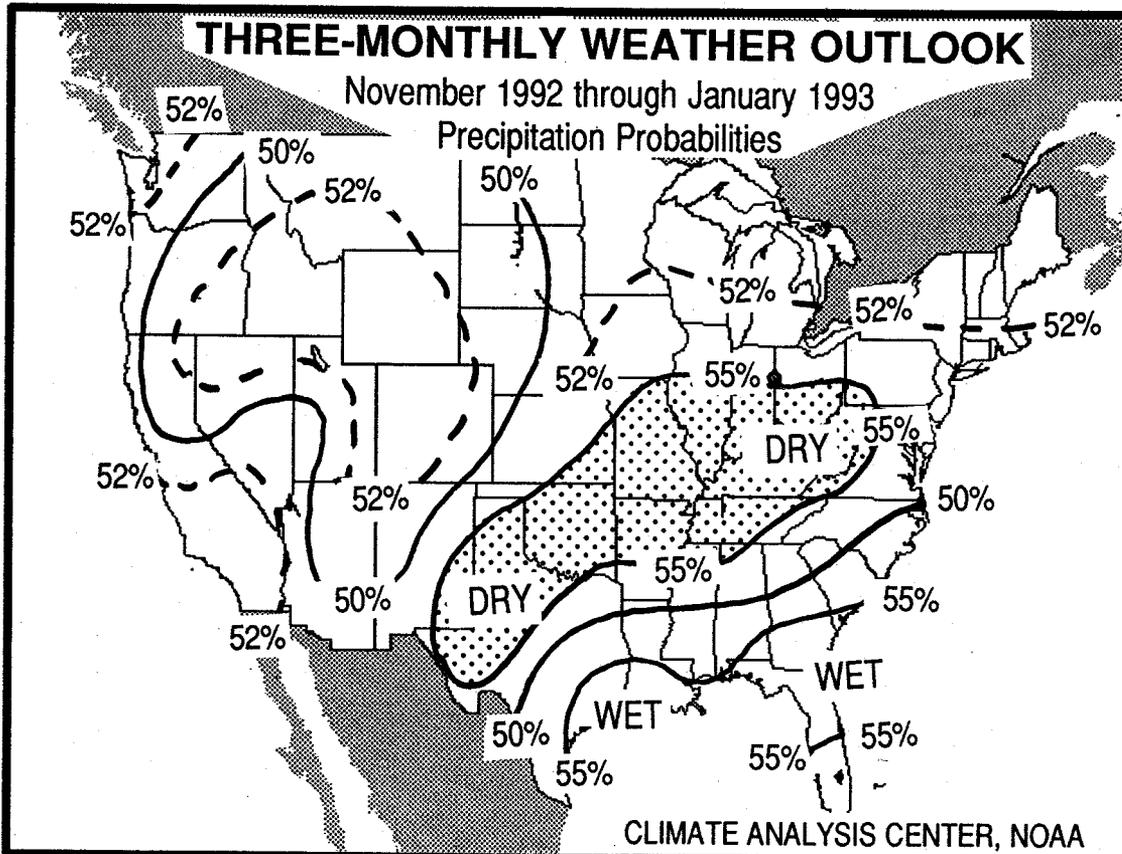
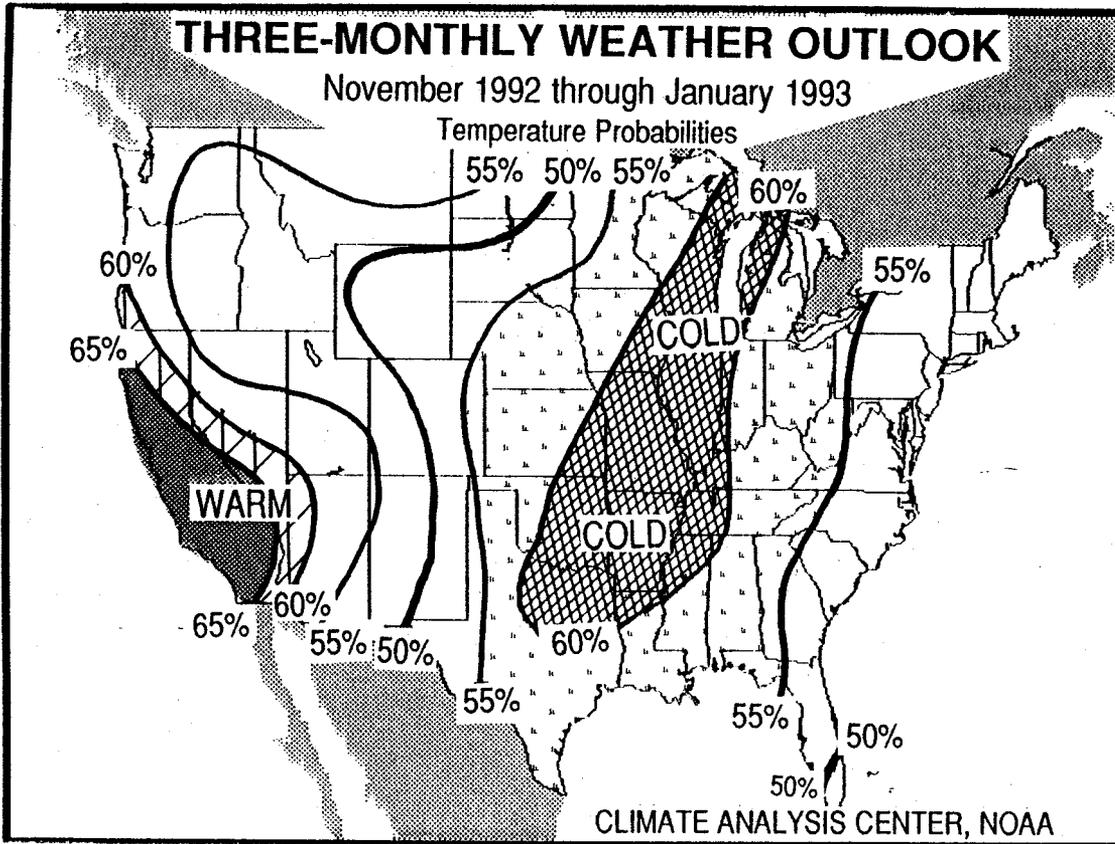
NOV 1- 7, 1992



Extreme Minimum Temperature(°F)

NOV 1- 7, 1992





# National Weather Data for Selected Cities

Weather Data for the Week Ending November 7, 1992

| STATES<br>AND<br>STATIONS | TEMPERATURE °F |         |         |                 |                |         | PRECIPITATION            |                      |                          |                             |                             |                             | RELATIVE<br>HUMIDITY,<br>PERCENT | NUMBER OF DAYS             |                            |         |         |         |              |                     |                     |
|---------------------------|----------------|---------|---------|-----------------|----------------|---------|--------------------------|----------------------|--------------------------|-----------------------------|-----------------------------|-----------------------------|----------------------------------|----------------------------|----------------------------|---------|---------|---------|--------------|---------------------|---------------------|
|                           | AVERAGE        | MAXIMUM | MINIMUM | EXTREME<br>HIGH | EXTREME<br>LOW | AVERAGE | DEPARTURE<br>FROM NORMAL | WEEKLY<br>TOTAL, IN. | DEPARTURE<br>FROM NORMAL | GREATEST IN<br>24-HOUR, IN. | TOTAL, IN.,<br>SINCE Sept 1 | PCT. NORMAL<br>SINCE Sept 1 |                                  | TOTAL, IN.,<br>SINCE Jan 1 | PCT. NORMAL<br>SINCE Jan 1 | AVERAGE | MAXIMUM | MINIMUM | TEMP. °F     |                     | PRECIP.             |
|                           |                |         |         |                 |                |         |                          |                      |                          |                             |                             |                             | 90 AND ABOVE                     |                            |                            |         |         |         | 32 AND BELOW | .01 INCH<br>OR MORE | .50 INCH<br>OR MORE |
| AL BIRMINGHAM             | 62             | 44      | 76      | 33              | 53             | -2      | 4.2                      | 3.5                  | 2.3                      | 12.1                        | 158                         | 47.5                        | 102                              | 97                         | 64                         | 0       | 0       | 4       | 2            |                     |                     |
| MOBILE                    | 68             | 47      | 80      | 34              | 58             | -1      | 4.3                      | 3.6                  | 2.6                      | 8.5                         | 88                          | 56.8                        | 101                              | 95                         | 61                         | 0       | 0       | 5       | 2            |                     |                     |
| MONTGOMERY                | 68             | 46      | 83      | 33              | 57             | -1      | 4.5                      | 3.9                  | 2.7                      | 8.9                         | 120                         | 52.3                        | 125                              | 97                         | 60                         | 0       | 0       | 4       | 3            |                     |                     |
| AK ANCHORAGE              | 32             | 22      | 37      | 4               | 27             | 0       | .4                       | .2                   | .2                       | 5.3                         | 123                         | 13.0                        | 100                              | 93                         | 73                         | 0       | 6       | 4       | 0            |                     |                     |
| BARROW                    | 11             | -5      | 22      | -15             | 3              | 0       | .1                       | .0                   | .0                       | .7                          | 61                          | 2.3                         | 55                               | 86                         | 77                         | 0       | 7       | 1       | 0            |                     |                     |
| FAIRBANKS                 | 15             | -1      | 27      | -28             | 7              | 0       | .3                       | .1                   | .2                       | 2.5                         | 128                         | 10.9                        | 119                              | 85                         | 74                         | 0       | 7       | 3       | 0            |                     |                     |
| JUNEAU                    | 45             | 37      | 49      | 30              | 41             | 6       | 1.5                      | .1                   | .6                       | 19.1                        | 124                         | 67.1                        | 150                              | 96                         | 76                         | 0       | 2       | 4       | 1            |                     |                     |
| KODIAK                    | 40             | 31      | 47      | 29              | 35             | 0       | .2                       | -1.2                 | .2                       | 7.7                         | 53                          | 47.9                        | 94                               | 83                         | 65                         | 0       | 6       | 1       | 0            |                     |                     |
| NOME                      | 19             | 3       | 24      | -6              | 11             | -1      | -1.0                     | -1.2                 | .1                       | 3.3                         | 88                          | 10.6                        | 80                               | 85                         | 64                         | 0       | 7       | 1       | 0            |                     |                     |
| AZ PHOENIX                | 77             | 54      | 82      | 51              | 65             | 1       | .0                       | -1.1                 | .0                       | .3                          | 22                          | 11.1                        | 195                              | 41                         | 15                         | 0       | 0       | 0       | 0            |                     |                     |
| PRESCOTT                  | 60             | 31      | 71      | 27              | 46             | -4      | .0                       | -1.1                 | .0                       | 1.1                         | 58                          | 18.5                        | 165                              | 78                         | 24                         | 0       | 4       | 0       | 0            |                     |                     |
| TUCSON                    | 73             | 45      | 79      | 41              | 59             | -2      | .0                       | -1.1                 | .0                       | 1.0                         | 43                          | 13.0                        | 135                              | 50                         | 16                         | 0       | 0       | 0       | 0            |                     |                     |
| YUMA                      | 81             | 58      | 90      | 54              | 70             | 2       | .0                       | -1.1                 | .0                       | .2                          | 3.5                         | 176                         | 36                               | 14                         | 1                          | 0       | 0       | 0       | 0            |                     |                     |
| AR FORT SMITH             | 61             | 36      | 72      | 26              | 49             | -5      | .1                       | -1.7                 | .1                       | 7.9                         | 109                         | 37.8                        | 110                              | 93                         | 47                         | 0       | 3       | 1       | 0            |                     |                     |
| LITTLE ROCK               | 58             | 40      | 73      | 32              | 49             | -6      | .6                       | -1.3                 | .4                       | 4.6                         | 58                          | 36.8                        | 89                               | 79                         | 53                         | 0       | 1       | 2       | 0            |                     |                     |
| CA BAKERSFIELD            | 74             | 51      | 77      | 47              | 63             | 2       | .0                       | -1.1                 | .0                       | .9                          | 161                         | 6.6                         | 149                              | 86                         | 40                         | 0       | 0       | 0       | 0            |                     |                     |
| EUREKA                    | 61             | 53      | 64      | 46              | 57             | 5       | .3                       | -1.9                 | .2                       | 2.8                         | 56                          | 18.0                        | 65                               | 95                         | 80                         | 0       | 0       | 4       | 0            |                     |                     |
| FRESNO                    | 71             | 50      | 75      | 49              | 61             | 4       | .0                       | -1.2                 | .0                       | 2.2                         | 264                         | 11.4                        | 146                              | 96                         | 54                         | 0       | 0       | 0       | 0            |                     |                     |
| LOS ANGELES               | 79             | 57      | 85      | 55              | 68             | 5       | .0                       | -1.3                 | .0                       | .5                          | 72                          | 12.4                        | 136                              | 78                         | 27                         | 0       | 0       | 0       | 0            |                     |                     |
| REDDING                   | 70             | 51      | 72      | 45              | 61             | 3       | .1                       | -1.0                 | .1                       | 6.3                         | 149                         | 26.5                        | 90                               | 85                         | 45                         | 0       | 0       | 1       | 0            |                     |                     |
| SACRAMENTO                | 72             | 51      | 75      | 45              | 61             | 3       | .0                       | -1.4                 | .0                       | 1.3                         | 82                          | 11.4                        | 93                               | 95                         | 48                         | 0       | 0       | 0       | 0            |                     |                     |
| SAN DIEGO                 | 79             | 55      | 87      | 53              | 67             | 3       | .0                       | -1.2                 | .0                       | .2                          | 25                          | 10.2                        | 146                              | 77                         | 24                         | 0       | 0       | 0       | 0            |                     |                     |
| SAN FRANCISCO             | 70             | 56      | 74      | 52              | 63             | 6       | .0                       | -1.4                 | .0                       | 1.1                         | 65                          | 14.5                        | 103                              | 94                         | 61                         | 0       | 0       | 0       | 0            |                     |                     |
| CO DENVER                 | 45             | 26      | 57      | 20              | 35             | -7      | .2                       | .0                   | .2                       | .8                          | 32                          | 13.8                        | 99                               | 90                         | 42                         | 0       | 7       | 1       | 0            |                     |                     |
| GRAND JUNCTION            | 47             | 30      | 52      | 25              | 38             | -6      | .3                       | .1                   | .3                       | 2.0                         | 117                         | 8.3                         | 121                              | 92                         | 46                         | 0       | 6       | 1       | 0            |                     |                     |
| PUEBLO                    | 49             | 24      | 59      | 17              | 36             | -8      | .2                       | .1                   | .1                       | 1.6                         | 94                          | 11.0                        | 108                              | 89                         | 36                         | 0       | 7       | 2       | 0            |                     |                     |
| CT BRIDGEPORT             | 51             | 41      | 56      | 34              | 46             | -3      | 1.5                      | .6                   | 1.2                      | 9.2                         | 124                         | 38.9                        | 112                              | 83                         | 49                         | 0       | 0       | 3       | 1            |                     |                     |
| HARTFORD                  | 48             | 35      | 54      | 28              | 42             | -4      | 1.2                      | .3                   | .7                       | 5.6                         | 68                          | 34.7                        | 94                               | 88                         | 58                         | 0       | 3       | 4       | 1            |                     |                     |
| DC WASHINGTON             | 59             | 44      | 73      | 40              | 52             | -1      | 1.3                      | .7                   | .6                       | 6.9                         | 103                         | 31.5                        | 94                               | 98                         | 69                         | 0       | 0       | 6       | 1            |                     |                     |
| FL APALACHICOLA           | 73             | 58      | 81      | 43              | 66             | 2       | .0                       | -1.6                 | .0                       | 11.2                        | 91                          | 51.5                        | 104                              | —                          | —                          | 0       | 0       | 0       | 0            |                     |                     |
| DAYTONA BEACH             | 80             | 63      | 87      | 52              | 72             | 4       | .3                       | -1.5                 | .2                       | 12.0                        | 101                         | 44.1                        | 99                               | 97                         | 63                         | 0       | 0       | 4       | 0            |                     |                     |
| JACKSONVILLE              | 76             | 59      | 87      | 46              | 68             | 3       | .4                       | .0                   | .3                       | 16.1                        | 153                         | 61.1                        | 127                              | 96                         | 62                         | 0       | 0       | 2       | 0            |                     |                     |
| KEY WEST                  | 86             | 76      | 88      | 73              | 81             | 4       | 1.0                      | .1                   | .9                       | 10.2                        | 84                          | 34.2                        | 97                               | 87                         | 67                         | 0       | 0       | 2       | 1            |                     |                     |
| MIAMI                     | 86             | 74      | 88      | 71              | 80             | 5       | 1.7                      | .8                   | 1.1                      | 10.2                        | 64                          | 43.7                        | 81                               | 94                         | 68                         | 0       | 0       | 4       | 1            |                     |                     |
| ORLANDO                   | 82             | 66      | 89      | 56              | 74             | 4       | .1                       | -1.4                 | .1                       | 12.4                        | 127                         | 49.4                        | 107                              | 94                         | 57                         | 0       | 0       | 1       | 0            |                     |                     |
| TALLAHASSEE               | 74             | 55      | 83      | 42              | 65             | 3       | 2.9                      | 2.2                  | 1.1                      | 9.9                         | 99                          | 57.3                        | 100                              | 92                         | 65                         | 0       | 0       | 4       | 3            |                     |                     |
| TAMPA                     | 80             | 66      | 86      | 54              | 73             | 4       | 1.0                      | .6                   | .8                       | 6.9                         | 79                          | 33.3                        | 77                               | 95                         | 62                         | 0       | 0       | 2       | 1            |                     |                     |
| WEST PALM BEACH           | 87             | 71      | 91      | 67              | 79             | 5       | 1.2                      | .1                   | 1.0                      | 11.0                        | 61                          | 47.9                        | 87                               | 95                         | 60                         | 2       | 0       | 2       | 1            |                     |                     |
| GA ATLANTA                | 64             | 47      | 74      | 34              | 56             | 0       | 3.8                      | 3.0                  | 2.7                      | 15.1                        | 238                         | 47.4                        | 114                              | 99                         | 68                         | 0       | 0       | 4       | 2            |                     |                     |
| AUGUSTA                   | 72             | 50      | 78      | 39              | 61             | 4       | 1.9                      | 1.5                  | 1.6                      | 10.2                        | 173                         | 44.4                        | 117                              | 99                         | 67                         | 0       | 0       | 3       | 1            |                     |                     |
| MACON                     | 69             | 50      | 79      | 36              | 60             | 1       | 3.7                      | 3.3                  | 3.1                      | 9.4                         | 165                         | 48.3                        | 124                              | 95                         | 65                         | 0       | 0       | 4       | 2            |                     |                     |
| SAVANNAH                  | 73             | 58      | 85      | 45              | 66             | 5       | .2                       | -1.2                 | .2                       | 12.3                        | 159                         | 52.0                        | 114                              | 97                         | 64                         | 0       | 0       | 2       | 1            |                     |                     |
| HI HILO                   | 82             | 70      | 86      | 68              | 76             | 2       | 1.8                      | -1.5                 | .9                       | 22.8                        | 114                         | 79.6                        | 77                               | 97                         | 67                         | 0       | 0       | 6       | 1            |                     |                     |
| HONOLULU                  | 84             | 68      | 88      | 61              | 76             | -1      | .4                       | -1.3                 | .3                       | 5.1                         | 158                         | 11.8                        | 68                               | 87                         | 52                         | 0       | 0       | 2       | 0            |                     |                     |
| KAHULUI                   | 84             | 70      | 90      | 68              | 77             | 1       | .5                       | .0                   | .4                       | 3.2                         | 204                         | 11.1                        | 80                               | 89                         | 56                         | 1       | 0       | 2       | 0            |                     |                     |
| LIHUE                     | 81             | 67      | 84      | 61              | 74             | -2      | .1                       | -1.2                 | .1                       | 6.3                         | 77                          | 23.0                        | 67                               | 83                         | 58                         | 0       | 0       | 0       | 0            |                     |                     |
| ID BOISE                  | 49             | 34      | 54      | 28              | 41             | -2      | .5                       | .3                   | .3                       | 1.7                         | 109                         | 6.0                         | 65                               | 95                         | 58                         | 0       | 3       | 4       | 0            |                     |                     |
| LEWISTON                  | 51             | 40      | 59      | 36              | 46             | 2       | .3                       | .0                   | .1                       | 1.8                         | 87                          | 9.3                         | 87                               | 84                         | 52                         | 0       | 0       | 4       | 0            |                     |                     |
| POCATELLO                 | 47             | 31      | 58      | 19              | 39             | 0       | .2                       | -1.1                 | .1                       | 1.2                         | 69                          | 5.9                         | 65                               | 90                         | 49                         | 0       | 3       | 3       | 0            |                     |                     |
| IL CHICAGO                | 42             | 34      | 57      | 29              | 38             | -7      | 3.0                      | 2.5                  | 1.6                      | 9.1                         | 140                         | 25.2                        | 83                               | 97                         | 68                         | 0       | 3       | 4       | 2            |                     |                     |
| MOLINE                    | 40             | 33      | 52      | 29              | 37             | -7      | 1.7                      | 1.3                  | 1.1                      | 8.0                         | 117                         | 30.9                        | 92                               | 94                         | 72                         | 0       | 5       | 4       | 1            |                     |                     |
| PEORIA                    | 44             | 35      | 61      | 31              | 40             | -5      | 1.8                      | 1.4                  | 1.4                      | 9.0                         | 136                         | 25.8                        | 82                               | 99                         | 79                         | 0       | 4       | 5       | 1            |                     |                     |
| QUINCY                    | 42             | 34      | 58      | 29              | 38             | -8      | 1.1                      | .6                   | .8                       | 4.3                         | 54                          | 21.8                        | 63                               | 94                         | 73                         | 0       | 4       | 5       | 1            |                     |                     |
| ROCKFORD                  | 40             | 33      | 55      | 28              | 37             | -6      | 1.7                      | 1.1                  | 1.2                      | 7.8                         | 109                         | 24.9                        | 75                               | 96                         | 76                         | 0       | 5       | 3       | 1            |                     |                     |
| SPRINGFIELD               | 46             | 37      | 65      | 32              | 41             | -6      | 1.5                      | 1.0                  | .7                       | 4.5                         | 73                          | 22.5                        | 74                               | 96                         | 72                         | 0       | 2       | 4       | 0            |                     |                     |
| IN EVANSVILLE             | 55             | 40      | 74      | 32              | 48             | -2      | .8                       | .1                   | .4                       | 4.9                         | 82                          | 30.6                        | 86                               | 90                         | 52                         | 0       | 1       | 4       | 2            |                     |                     |
| FORT WAYNE                | 49             | 36      | 62      | 31              | 43             | -2      | 2.2                      | 1.6                  | 1.6                      | 10.7                        | 188                         | 36.1                        | 120                              | 93                         | 64                         | 0       | 3       | 4       | 0            |                     |                     |
| INDIANAPOLIS              | 52             | 38      | 68      | 30              | 45             | -1      | 2.8                      | 2.1                  | 1.8                      | 9.0                         | 153                         | 37.2                        | 110                              | 94                         | 66                         | 0       | 1       | 5       | 2            |                     |                     |
| SOUTH BEND                | 44             | 35      | 60      | 31              | 40             | -5      | 2.4                      | 1.7                  | 1.0                      | 12.9                        | 182                         | 31.5                        | 96                               | 95                         | 71                         | 0       | 3       | 7       | 2            |                     |                     |
| IA DES MOINES             | 37             | 31      | 46      | 26              | 34             | -10     | 1.2                      | .8                   | 1.0                      | 6.7                         | 120                         | 27.5                        | 96                               | 90                         | 76                         | 0       | 5       | 5       | 1            |                     |                     |
| SIoux CITY                | 34             | 28      | 43      | 24              | 31             | -11     | .5                       | .3                   | .5                       | 7.0                         | 158                         | 28.7                        | 120                              | 95                         | 76                         | 0       | 6       | 3       | 0            |                     |                     |
| WATERLOO                  | 38             | 32      | 46      | 25              | 35             | -6      | 2.4                      | 2.0                  | 2.1                      | 5.4                         | 88                          | 26.2                        | 86                               | 97                         | 77                         | 0       | 4       | 4       | 1            |                     |                     |
| KS CONCORDIA              | 39             | 30      | 48      | 22              | 34             | -12     | .4                       | .1                   | .4                       | 8.2                         | 161                         | 38.2                        | 149                              | 90                         | 67                         | 0       | 5       | 2       | 0            |                     |                     |
| DODGE CITY                | 48             | 26      | 56      | 17              | 37             | -10     | .1                       | -1.1                 | 1.3                      | 4.0                         | 40                          | 19.3                        | 100                              | 94                         | 46                         | 0       | 7       | 1       | 0            |                     |                     |
| GOODLAND                  | 45             | 25      | 53      | 17              | 35             | -8      | .7                       | -1.1                 | .7                       | 4.8                         | 77                          | 28.1                        | 105                              | 88                         | 56                         | 0       | 6       | 2       | 0            |                     |                     |
| TOPEKA                    | 41             | 33      | 57      | 29              | 37             | -11     | .7                       | .2                   | .5                       | 6.0                         | 90                          | 29.3                        | 95                               | 91                         | 69                         | 0       | 4       | 6       | 1            |                     |                     |
| WICHITA                   | 48             | 32      | 55      | 25              | 40             | -9      | .3                       | -1.1                 | .2                       | 4.8                         | 77                          | 28.1                        | 105                              | 88                         | 56                         | 0       | 3       | 2       | 0            |                     |                     |
| KY BOWLING GREEN          | 58             | 42      | 75      | 33              | 50             | 0       | 1.4                      | .5                   | .9                       | 7.4                         | 109                         | 33.4                        | 80                               | 94                         | 60                         | 0       | 0       | 4       | 1            |                     |                     |
| LEXINGTON                 | 56             | 41      | 72      | 30              | 49             | 0       | 1.5                      | .8                   | .5                       | 5.5                         | 89                          | 45.2                        | 115                              | 90                         | 55                         | 0       | 1       | 4       | 1            |                     |                     |
| LOUISVILLE                | 58             | 42      | 75      | 32              | 50             | 1       | 1.0                      | .3                   | .3                       | 5.5                         | 82                          | 35.5                        | 95                               | 91                         | 54                         | 0       | 1       | 4       | 0            |                     |                     |
| LA BATON ROUGE            | 68             | 44      | 82      | 33              | 56             | -6      | 3.5                      | 2.7                  | 2.3                      | 6.2                         | 79                          | 60.9                        | 128                              | 98                         | 57                         | 0       | 0       | 3       | 2            |                     |                     |
| LAKE CHARLES              | 68             | 46      | 84      | 36              | 57             | -6      | 3.3                      | 2.4                  | 3.2                      | 9.1                         | 90                          | 54.7                        | 120                              | 94                         | 52                         | 0       | 0       | 2       | 1            |                     |                     |
| NEW ORLEANS               | 69             | 48      | 82      | 41              | 59             | -4      | 5.8                      | 5.0                  | 3.5                      | 13.0                        | 141                         | 66.9                        | 131                              | 98                         | 62                         | 0       | 0       | 4       | 2            |                     |                     |
| SHREVEPORT                | 64             | 40      | 82      | 31              | 52             | -7      | 1.7                      | .9                   | 1.1                      | 11.0                        | 164                         | 42.6                        | 115                              | 90                         | 49                         | 0       | 2       | 2       | 2            |                     |                     |

Based on 1951-80 normals.

Weather Data for the Week Ending November 7, 1992

| STATES<br><br>AND<br><br>STATIONS | TEMPERATURE °F     |                    |                 |                |         |                          | PRECIPITATION        |                          |                             |                             |                             |                            | RELATIVE HUMIDITY, PERCENT |                    | NUMBER OF DAYS     |              |              |                     |   |                     |   |
|-----------------------------------|--------------------|--------------------|-----------------|----------------|---------|--------------------------|----------------------|--------------------------|-----------------------------|-----------------------------|-----------------------------|----------------------------|----------------------------|--------------------|--------------------|--------------|--------------|---------------------|---|---------------------|---|
|                                   | AVERAGE<br>MAXIMUM | AVERAGE<br>MINIMUM | EXTREME<br>HIGH | EXTREME<br>LOW | AVERAGE | DEPARTURE<br>FROM NORMAL | WEEKLY<br>TOTAL, IN. | DEPARTURE<br>FROM NORMAL | GREATEST IN<br>24-HOUR, IN. | TOTAL, IN.,<br>SINCE Sept 1 | PCT. NORMAL<br>SINCE Sept 1 | TOTAL, IN.,<br>SINCE Jan 1 | PCT. NORMAL<br>SINCE Jan 1 | AVERAGE<br>MAXIMUM | AVERAGE<br>MINIMUM | 90 AND ABOVE | 32 AND BELOW | .01 INCH<br>OR MORE |   | .50 INCH<br>OR MORE |   |
|                                   |                    |                    |                 |                |         |                          |                      |                          |                             |                             |                             |                            |                            |                    |                    |              |              |                     |   |                     |   |
| ME CARIBOU                        | 37                 | 27                 | 47              | 20             | 32      | -5                       | .3                   | -.4                      | .1                          | 5.3                         | 73                          | 33.5                       | 108                        | 87                 | 56                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| PORTLAND                          | 46                 | 33                 | 51              | 26             | 39      | -3                       | 1.3                  | -.2                      | .8                          | 6.9                         | 85                          | 33.3                       | 94                         | 85                 | 56                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| MD BALTIMORE                      | 58                 | 40                 | 74              | 36             | 49      | -1                       | 1.4                  | .7                       | 7                           | 10.1                        | 139                         | 32.2                       | 90                         | 100                | 72                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| SALISBURY                         | 61                 | 42                 | 72              | 35             | 52      | 0                        | 1.6                  | .9                       | 1.0                         | 10.0                        | 113                         | 38.7                       | 98                         | 97                 | 66                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| MA BOSTON                         | 49                 | 37                 | 58              | 30             | 43      | -5                       | 1.0                  | -.1                      | .7                          | 6.1                         | 79                          | 30.3                       | 84                         | 87                 | 56                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| CHATHAM                           | 49                 | 41                 | 59              | 37             | 45      | -3                       | .9                   | -.1                      | .5                          | 4.2                         | 50                          | 31.1                       | 81                         | 94                 | 79                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| MI ALPENA                         | 42                 | 30                 | 51              | 21             | 36      | -4                       | 1.6                  | 1.1                      | 1.3                         | 6.5                         | 115                         | 22.8                       | 90                         | 94                 | 62                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| DETROIT                           | 47                 | 37                 | 60              | 30             | 42      | -2                       | 1.5                  | .9                       | 1.3                         | 9.0                         | 187                         | 32.1                       | 121                        | 89                 | 67                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| FLINT                             | 46                 | 33                 | 58              | 24             | 39      | -4                       | 1.1                  | .6                       | .5                          | 6.1                         | 124                         | 31.9                       | 126                        | 93                 | 67                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| GRAND RAPIDS                      | 43                 | 34                 | 61              | 27             | 38      | -5                       | 2.7                  | 2.1                      | 1.2                         | 10.6                        | 163                         | 35.9                       | 124                        | 96                 | 68                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| HOUGHTON LAKE                     | 39                 | 30                 | 52              | 15             | 35      | -5                       | 1.9                  | 1.4                      | 1.5                         | 8.3                         | 150                         | 24.6                       | 101                        | 94                 | 76                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| LANSING                           | 44                 | 34                 | 61              | 28             | 39      | -4                       | 1.4                  | .8                       | 1.0                         | 6.7                         | 127                         | 30.2                       | 118                        | 95                 | 65                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| MARQUETTE                         | 35                 | 22                 | 43              | 9              | 28      | -7                       | 1.5                  | .8                       | 1.0                         | 6.8                         | 87                          | 26.0                       | 80                         | 93                 | 78                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| MUSKEGON                          | 43                 | 35                 | 58              | 28             | 39      | -5                       | 2.9                  | 2.3                      | 1.1                         | 8.9                         | 140                         | 23.7                       | 89                         | 98                 | 63                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| SAULT ST. MARIE                   | 38                 | 26                 | 46              | 14             | 32      | -5                       | 1.6                  | .9                       | 1.2                         | 10.6                        | 142                         | 29.0                       | 102                        | 91                 | 66                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| MN ALEXANDRIA                     | 29                 | 24                 | 37              | 18             | 26      | -9                       | .3                   | .0                       | .2                          | 1.8                         | 40                          | 17.2                       | 74                         | 95                 | 77                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| DULUTH                            | 30                 | 25                 | 38              | 17             | 28      | -7                       | .9                   | .5                       | .5                          | 5.9                         | 102                         | 26.6                       | 99                         | 92                 | 72                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| INT'L FALLS                       | 30                 | 22                 | 39              | 15             | 26      | -6                       | .6                   | .3                       | .4                          | 3.1                         | 59                          | 21.2                       | 95                         | 91                 | 67                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| MINNEAPOLIS                       | 33                 | 28                 | 42              | 21             | 31      | -8                       | 1.5                  | 1.1                      | .7                          | 8.8                         | 190                         | 28.2                       | 115                        | 90                 | 72                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| ROCHESTER                         | 32                 | 27                 | 39              | 20             | 30      | -9                       | 2.3                  | 1.9                      | 1.6                         | 8.5                         | 141                         | 24.1                       | 91                         | 95                 | 81                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| MS GREENWOOD                      | 61                 | 44                 | 80              | 28             | 53      | -4                       | 2.4                  | 1.4                      | 1.5                         | 6.8                         | 96                          | 38.2                       | 87                         | 91                 | 46                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| JACKSON                           | 63                 | 43                 | 81              | 28             | 53      | -5                       | 2.3                  | 1.5                      | 1.0                         | 7.7                         | 115                         | 38.2                       | 88                         | 96                 | 55                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| MERIDIAN                          | 66                 | 44                 | 80              | 31             | 55      | -2                       | 5.0                  | 4.3                      | 2.7                         | 7.9                         | 117                         | 53.8                       | 120                        | 96                 | 57                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| MO CAPE GIRARDEAU                 | 53                 | 39                 | 73              | 30             | 46      | -4                       | 1.1                  | .3                       | .7                          | 9.8                         | 142                         | 32.7                       | 86                         | 90                 | 58                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| COLUMBIA                          | 42                 | 33                 | 65              | 28             | 38      | -11                      | .6                   | .0                       | .4                          | 5.9                         | 77                          | 24.2                       | 73                         | 96                 | 75                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| KANSAS CITY                       | 41                 | 32                 | 62              | 28             | 37      | -13                      | 1.0                  | .6                       | .8                          | 8.1                         | 102                         | 42.8                       | 128                        | 94                 | 72                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| SAINT LOUIS                       | 47                 | 38                 | 67              | 32             | 42      | -7                       | 1.0                  | .4                       | .6                          | 5.2                         | 92                          | 24.4                       | 82                         | 90                 | 64                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| SPRINGFIELD                       | 46                 | 34                 | 66              | 30             | 40      | -9                       | 2.0                  | 1.3                      | 1.4                         | 10.1                        | 125                         | 36.7                       | 105                        | 91                 | 69                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| MT BILLINGS                       | 48                 | 31                 | 59              | 28             | 40      | 0                        | .2                   | .0                       | .1                          | 1.3                         | 50                          | 10.9                       | 81                         | 77                 | 40                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| GLASGOW                           | 37                 | -28                | 43              | 22             | 32      | -3                       | .4                   | .3                       | .2                          | 1.3                         | 103                         | 8.7                        | 84                         | 93                 | 76                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| GREAT FALLS                       | 43                 | 31                 | 52              | 23             | 37      | -2                       | .1                   | .0                       | .0                          | 3.0                         | 153                         | 14.1                       | 103                        | 89                 | 57                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| HAVRE                             | 43                 | 29                 | 55              | 24             | 36      | 0                        | .1                   | .0                       | .0                          | 2.2                         | 129                         | 8.4                        | 77                         | 91                 | 67                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| HELENA                            | 43                 | 29                 | 55              | 20             | 36      | 0                        | .1                   | .0                       | .0                          | 2.0                         | 128                         | 8.6                        | 83                         | 92                 | 56                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| KALISPELL                         | 42                 | 32                 | 50              | 25             | 37      | 2                        | .8                   | .6                       | .4                          | 2.6                         | 110                         | 14.4                       | 109                        | 97                 | 70                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| MILES CITY                        | 41                 | 29                 | 53              | 21             | 35      | -2                       | .1                   | .1                       | .1                          | 2.6                         | 120                         | 13.8                       | 105                        | 90                 | 65                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| MISSOULA                          | 43                 | 31                 | 50              | 25             | 37      | 1                        | .5                   | .3                       | .3                          | 1.3                         | 63                          | 9.9                        | 87                         | 95                 | 60                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| NE GRAND ISLAND                   | 34                 | 25                 | 43              | 17             | 30      | -13                      | T                    | T                        | T                           | 4.4                         | 120                         | 29.7                       | 136                        | 92                 | 67                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| LINCOLN                           | 35                 | 29                 | 46              | 25             | 32      | -12                      | .6                   | .4                       | .5                          | 4.9                         | 103                         | 24.0                       | 94                         | 90                 | 71                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| NORFOLK                           | 34                 | 27                 | 43              | 24             | 31      | -11                      | .6                   | .4                       | .4                          | 6.6                         | 184                         | 27.4                       | 122                        | 91                 | 77                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| NORTH PLATTE                      | 41                 | 23                 | 51              | 12             | 32      | -7                       | .1                   | -.1                      | .1                          | 1.2                         | 46                          | 22.6                       | 122                        | 92                 | 54                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| OMAHA                             | 34                 | 29                 | 44              | 25             | 32      | -13                      | 1.5                  | 1.1                      | 1.4                         | 8.9                         | 153                         | 33.2                       | 117                        | 91                 | 78                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| SCOTTSBLUFF                       | 44                 | 24                 | 56              | 13             | 34      | -16                      | T                    | T                        | T                           | 1.3                         | 69                          | 14.2                       | 104                        | 92                 | 41                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| VALENTINE                         | 33                 | 21                 | 44              | 12             | 27      | -12                      | .2                   | .1                       | .2                          | 2.0                         | 85                          | 17.8                       | 108                        | 89                 | 68                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| NV ELY                            | 49                 | 23                 | 60              | 18             | 36      | -1                       | .1                   | -.1                      | .0                          | 1.6                         | 111                         | 8.7                        | 113                        | 81                 | 41                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| LAS VEGAS                         | 69                 | 46                 | 82              | 40             | 57      | 0                        | .0                   | -.1                      | .0                          | 1.2                         | 194                         | 8.2                        | 242                        | 57                 | 23                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| RENO                              | 63                 | 36                 | 70              | 30             | 50      | 7                        | .0                   | -.1                      | T                           | .5                          | 71                          | 3.4                        | 62                         | 73                 | 30                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| WINNEMUCCA                        | 55                 | 30                 | 63              | 21             | 43      | 1                        | .1                   | .0                       | .1                          | .7                          | 63                          | 2.7                        | 43                         | 81                 | 44                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| NH CONCORD                        | 46                 | 29                 | 55              | 16             | 38      | -4                       | 1.2                  | .3                       | .8                          | 6.0                         | 86                          | 25.1                       | 83                         | 96                 | 58                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| NJ ATLANTIC CITY                  | 58                 | 41                 | 69              | 28             | 49      | 0                        | 2.1                  | 1.3                      | 1.0                         | 8.5                         | 125                         | 32.0                       | 90                         | 95                 | 62                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| NM ALBUQUERQUE                    | 53                 | 30                 | 68              | 25             | 42      | -7                       | .1                   | .0                       | .1                          | 1.6                         | 92                          | 9.9                        | 139                        | 78                 | 29                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| CLOVIS                            | 56                 | 29                 | 71              | 23             | 42      | -8                       | .2                   | .0                       | .1                          | 1.3                         | 35                          | 19.4                       | 120                        | 77                 | 26                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| ROSBELL                           | 63                 | 34                 | 77              | 26             | 48      | -3                       | .0                   | -.1                      | .0                          | .6                          | 21                          | 12.5                       | 126                        | 65                 | 21                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| NY ALBANY                         | 45                 | 34                 | 53              | 27             | 40      | -4                       | 1.4                  | .7                       | .6                          | 6.7                         | 98                          | 26.1                       | 86                         | 88                 | 57                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| BINGHAMTON                        | 44                 | 31                 | 60              | 19             | 38      | -4                       | 1.5                  | .7                       | .7                          | 8.4                         | 120                         | 35.7                       | 113                        | 92                 | 58                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| BUFFALO                           | 48                 | 35                 | 63              | 21             | 42      | -3                       | 1.9                  | 1.1                      | 1.1                         | 10.3                        | 146                         | 40.8                       | 131                        | 87                 | 53                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| NEW YORK                          | 53                 | 43                 | 59              | 35             | 48      | -3                       | 2.5                  | 1.6                      | 2.0                         | 6.1                         | 81                          | 29.2                       | 81                         | 86                 | 63                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| ROCHESTER                         | 47                 | 35                 | 65              | 24             | 41      | -4                       | 1.4                  | .8                       | .8                          | 6.2                         | 106                         | 31.8                       | 119                        | 92                 | 54                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| SYRACUSE                          | 48                 | 32                 | 66              | 21             | 40      | -5                       | 1.6                  | .8                       | .8                          | 8.8                         | 123                         | 38.9                       | 118                        | 92                 | 51                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| NC ASHEVILLE                      | 57                 | 43                 | 66              | 34             | 50      | 0                        | 2.4                  | 1.7                      | 1.3                         | 9.7                         | 128                         | 45.5                       | 119                        | 98                 | 73                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| CHARLOTTE                         | 64                 | 51                 | 76              | 40             | 57      | 3                        | 1.4                  | .8                       | .9                          | 15.8                        | 230                         | 46.5                       | 125                        | 92                 | 66                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| GREENSBORO                        | 60                 | 45                 | 71              | 34             | 52      | 1                        | 3.3                  | 2.7                      | 2.3                         | 10.0                        | 137                         | 38.8                       | 105                        | 94                 | 68                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| HATTERAS                          | 71                 | 59                 | 79              | 48             | 65      | 6                        | 2.2                  | 1.1                      | 1.1                         | 12.4                        | 106                         | 53.8                       | 113                        | 92                 | 67                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| NEW BERN                          | 73                 | 55                 | 82              | 44             | 64      | 7                        | .7                   | .0                       | .4                          | 4.4                         | 45                          | 42.5                       | 90                         | 92                 | 60                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| RALEIGH                           | 63                 | 49                 | 75              | 38             | 57      | 3                        | 1.6                  | 1.0                      | 1.0                         | 7.6                         | 115                         | 37.3                       | 103                        | 99                 | 73                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| WILMINGTON                        | 73                 | 56                 | 84              | 43             | 65      | 6                        | 1.0                  | .3                       | .5                          | 6.3                         | 68                          | 55.6                       | 117                        | 92                 | 61                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| ND BISMARCK                       | 29                 | 24                 | 34              | 20             | 27      | -8                       | .5                   | .4                       | .3                          | 2.2                         | 98                          | 12.0                       | 84                         | 92                 | 76                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| FARGO                             | 30                 | 23                 | 40              | 16             | 26      | -9                       | 1.0                  | .8                       | .6                          | 3.8                         | 115                         | 19.1                       | 105                        | 95                 | 76                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| GRAND FORKS                       | 30                 | 22                 | 42              | 11             | 26      | -7                       | .5                   | .3                       | .3                          | 2.0                         | 61                          | 15.9                       | 93                         | 92                 | 72                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| WILLISTON                         | 35                 | 25                 | 43              | 20             | 30      | -4                       | 1                    | -.1                      | .0                          | 1.3                         | 62                          | 11.3                       | 90                         | 88                 | 65                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| OH AKRON-CANTON                   | 48                 | 36                 | 65              | 31             | 42      | -3                       | 1.6                  | 1.1                      | .7                          | 7.4                         | 129                         | 39.4                       | 127                        | 92                 | 66                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| CINCINNATI                        | 54                 | 38                 | 69              | 31             | 46      | -2                       | .8                   | .1                       | .3                          | 5.2                         | 85                          | 32.7                       | 94                         | 96                 | 60                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| CLEVELAND                         | 50                 | 38                 | 65              | 32             | 44      | -2                       | 2.3                  | 1.6                      | .9                          | 7.8                         | 131                         | 39.9                       | 131                        | 93                 | 58                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| COLUMBUS                          | 55                 | 40                 | 69              | 30             | 48      | 1                        | 1.0                  | .5                       | .4                          | 4.6                         | 88                          | 35.3                       | 110                        | 90                 | 54                 | 0            | 0            | 0                   | 0 | 0                   | 0 |
| DAYTON                            | 52                 | 38                 | 67              | 31             | 45      | -1                       | .9                   | .3                       | .4                          | 4.7                         | 95                          | 34.9                       | 116                        | 91                 | 58                 | 0            | 0            | 0                   | 0 | 0                   | 0 |

Based on 1951-80 normals.

Weather Data for the Week Ending November 7, 1992

| STATES<br>AND<br>STATIONS | TEMPERATURE °F     |                    |                 |                |         |                          |                      | PRECIPITATION            |                             |                             |                             |                            |                            |         | RELATIVE HUMIDITY, PERCENT |         | NUMBER OF DAYS |              |                     |                     |         |  |
|---------------------------|--------------------|--------------------|-----------------|----------------|---------|--------------------------|----------------------|--------------------------|-----------------------------|-----------------------------|-----------------------------|----------------------------|----------------------------|---------|----------------------------|---------|----------------|--------------|---------------------|---------------------|---------|--|
|                           | AVERAGE<br>MAXIMUM | AVERAGE<br>MINIMUM | EXTREME<br>HIGH | EXTREME<br>LOW | AVERAGE | DEPARTURE<br>FROM NORMAL | WEEKLY<br>TOTAL, IN. | DEPARTURE<br>FROM NORMAL | GREATEST IN<br>24-HOUR, IN. | TOTAL, IN.,<br>SINCE Sept 1 | PCT. NORMAL<br>SINCE Sept 1 | TOTAL, IN.,<br>SINCE Jan 1 | PCT. NORMAL<br>SINCE Jan 1 | AVERAGE | MAXIMUM                    | MINIMUM | 90 AND ABOVE   | 32 AND BELOW | TEMP. °F            |                     | PRECIP. |  |
|                           |                    |                    |                 |                |         |                          |                      |                          |                             |                             |                             |                            |                            |         |                            |         |                |              | .01 INCH<br>OR MORE | .50 INCH<br>OR MORE |         |  |
| TOLEDO                    | 49                 | 36                 | 61              | 25             | 43      | -1                       | 1.6                  | 1.1                      | 1.1                         | 7.4                         | 150                         | 30.7                       | 113                        | 93      | 61                         | 0       | 0              | 2            | 4                   | 4                   | 1       |  |
| YOUNGSTOWN                | 49                 | 35                 | 65              | 29             | 42      | -1                       | 1.1                  | 1.1                      | 1.1                         | 5.4                         | 8.2                         | 36.1                       | 112                        | 95      | 60                         | 0       | 0              | 4            | 4                   | 5                   | 0       |  |
| OK OKLAHOMA CITY          | 57                 | 34                 | 66              | 24             | 46      | -2                       | 1.3                  | 1.3                      | 1.3                         | 4.0                         | 62                          | 32.2                       | 113                        | 88      | 46                         | 0       | 0              | 3            | 3                   | 5                   | 0       |  |
| TULSA                     | 53                 | 35                 | 65              | 27             | 44      | -1                       | 1.3                  | 1.3                      | 1.3                         | 6.5                         | 78                          | 33.8                       | 97                         | 88      | 52                         | 0       | 0              | 3            | 3                   | 2                   | 0       |  |
| OR ASTORIA                | 56                 | 43                 | 57              | 36             | 50      | 1                        | 1.9                  | 1.9                      | 1.9                         | 8.7                         | 74                          | 34.5                       | 69                         | 97      | 71                         | 0       | 0              | 0            | 0                   | 5                   | 2       |  |
| BURNS                     | 46                 | 30                 | 54              | 23             | 38      | -1                       | 1.2                  | 1.2                      | 1.2                         | 1.7                         | 107                         | 7.7                        | 100                        | 91      | 58                         | 0       | 0              | 5            | 5                   | 2                   | 0       |  |
| MEDFORD                   | 61                 | 46                 | 67              | 38             | 53      | 7                        | 1.7                  | 1.7                      | 1.7                         | 3.1                         | 103                         | 10.6                       | 76                         | 99      | 61                         | 0       | 0              | 0            | 0                   | 4                   | 1       |  |
| PENDLETON                 | 53                 | 39                 | 55              | 34             | 46      | 2                        | 1.3                  | 1.3                      | 1.3                         | 2.1                         | 114                         | 7.2                        | 77                         | 92      | 61                         | 0       | 0              | 0            | 0                   | 4                   | 0       |  |
| PORTLAND                  | 56                 | 46                 | 59              | 43             | 51      | 3                        | 1.7                  | 1.7                      | 1.7                         | 4.6                         | 80                          | 20.2                       | 75                         | 99      | 71                         | 0       | 0              | 0            | 0                   | 3                   | 0       |  |
| SALEM                     | 58                 | 47                 | 61              | 43             | 52      | 5                        | 1.4                  | 1.4                      | 1.4                         | 4.6                         | 75                          | 21.1                       | 74                         | 93      | 68                         | 0       | 0              | 0            | 0                   | 3                   | 0       |  |
| PA ALLENTOWN              | 53                 | 39                 | 61              | 30             | 46      | -1                       | 2.0                  | 2.0                      | 2.0                         | 1.1                         | 92                          | 32.3                       | 86                         | 89      | 59                         | 0       | 0              | 1            | 3                   | 2                   | 0       |  |
| ERIE                      | 50                 | 38                 | 66              | 28             | 44      | -2                       | 1.5                  | 1.5                      | 1.5                         | 6.7                         | 12.3                        | 36.9                       | 109                        | 86      | 53                         | 0       | 0              | 1            | 1                   | 5                   | 1       |  |
| HARRISBURG                | 52                 | 40                 | 68              | 35             | 46      | -1                       | 2.0                  | 2.0                      | 2.0                         | 1.3                         | 2.0                         | 28.0                       | 84                         | 88      | 57                         | 0       | 0              | 0            | 0                   | 1                   | 1       |  |
| PHILADELPHIA              | 57                 | 43                 | 67              | 37             | 50      | 0                        | 1.2                  | 1.2                      | 1.2                         | 5.6                         | 79                          | 23.8                       | 67                         | 83      | 51                         | 0       | 0              | 0            | 0                   | 4                   | 1       |  |
| PITTSBURGH                | 51                 | 38                 | 69              | 33             | 45      | -1                       | 1.9                  | 1.9                      | 1.9                         | 5.3                         | 93                          | 31.4                       | 98                         | 93      | 61                         | 0       | 0              | 0            | 0                   | 5                   | 0       |  |
| SCRANTON                  | 51                 | 36                 | 64              | 28             | 44      | -1                       | 1.3                  | 1.3                      | 1.3                         | 6.6                         | 5.9                         | 88                         | 24.4                       | 81      | 92                         | 56      | 0              | 0            | 1                   | 3                   | 1       |  |
| RI PROVIDENCE             | 51                 | 37                 | 61              | 30             | 44      | -3                       | 1.2                  | 1.2                      | 1.2                         | 2.8                         | 7.8                         | 36.7                       | 98                         | 90      | 60                         | 0       | 0              | 3            | 3                   | 1                   | 1       |  |
| SC CHARLESTON             | 74                 | 59                 | 82              | 47             | 66      | 7                        | 1.3                  | 1.3                      | 1.3                         | 2.2                         | 8.2                         | 47.0                       | 101                        | 95      | 63                         | 0       | 0              | 0            | 0                   | 2                   | 0       |  |
| COLUMBIA                  | 71                 | 52                 | 79              | 40             | 61      | 4                        | 1.0                  | 1.0                      | 1.0                         | 5.8                         | 9.8                         | 43.7                       | 100                        | 98      | 62                         | 0       | 0              | 0            | 0                   | 3                   | 1       |  |
| FLORENCE                  | 70                 | 54                 | 81              | 42             | 62      | 4                        | 1.4                  | 1.4                      | 1.4                         | 9.7                         | 142                         | 42.2                       | 107                        | 94      | 62                         | 0       | 0              | 0            | 0                   | 3                   | 1       |  |
| GREENVILLE                | 62                 | 45                 | 73              | 32             | 53      | -1                       | 2.1                  | 2.1                      | 2.1                         | 1.1                         | 12.6                        | 49.7                       | 111                        | 97      | 72                         | 0       | 0              | 1            | 3                   | 2                   | 0       |  |
| SD ABERDEEN               | 30                 | 24                 | 36              | 19             | 27      | -9                       | 1.7                  | 1.7                      | 1.7                         | 6.5                         | 3.2                         | 16.2                       | 96                         | 94      | 74                         | 0       | 0              | 7            | 7                   | 4                   | 0       |  |
| HURON                     | 31                 | 25                 | 39              | 21             | 28      | -10                      | 1.8                  | 1.8                      | 1.8                         | 6.5                         | 3.8                         | 22.0                       | 126                        | 93      | 66                         | 0       | 0              | 6            | 6                   | 4                   | 0       |  |
| RAPID CITY                | 36                 | 25                 | 43              | 19             | 30      | -9                       | 1.2                  | 1.2                      | 1.2                         | 1.1                         | 2.1                         | 12.8                       | 84                         | 96      | 64                         | 0       | 0              | 7            | 7                   | 4                   | 0       |  |
| SIoux FALLS               | 31                 | 25                 | 40              | 21             | 28      | -11                      | 1.5                  | 1.5                      | 1.5                         | 3.3                         | 6.3                         | 31.2                       | 138                        | 90      | 66                         | 0       | 0              | 7            | 7                   | 3                   | 0       |  |
| TN CHATTANOOGA            | 60                 | 42                 | 74              | 30             | 51      | -1                       | 1.8                  | 1.8                      | 1.8                         | 9.8                         | 11.0                        | 46.2                       | 104                        | 99      | 59                         | 0       | 0              | 1            | 4                   | 2                   | 1       |  |
| KNOXVILLE                 | 59                 | 43                 | 75              | 28             | 51      | -1                       | 1.5                  | 1.5                      | 1.5                         | 7.8                         | 6.3                         | 34.7                       | 88                         | 98      | 62                         | 0       | 0              | 1            | 4                   | 1                   | 1       |  |
| MEMPHIS                   | 57                 | 43                 | 78              | 29             | 50      | -5                       | 1.1                  | 1.1                      | 1.1                         | 3.6                         | 8.8                         | 40.3                       | 93                         | 88      | 50                         | 0       | 0              | 2            | 2                   | 2                   | 2       |  |
| NASHVILLE                 | 59                 | 44                 | 75              | 36             | 52      | 0                        | 1.8                  | 1.8                      | 1.8                         | 1.1                         | 6.8                         | 34.3                       | 84                         | 89      | 52                         | 0       | 0              | 0            | 0                   | 4                   | 1       |  |
| TX ABILENE                | 63                 | 40                 | 77              | 26             | 51      | -6                       | 1.1                  | 1.1                      | 1.1                         | 3.1                         | 5.4                         | 24.4                       | 113                        | 76      | 28                         | 0       | 0              | 2            | 1                   | 0                   | 0       |  |
| AMARILLO                  | 54                 | 27                 | 66              | 20             | 41      | -9                       | 1.1                  | 1.1                      | 1.1                         | 5.1                         | 16                          | 19.4                       | 107                        | 81      | 28                         | 0       | 0              | 5            | 1                   | 0                   | 0       |  |
| AUSTIN                    | 68                 | 45                 | 81              | 35             | 56      | -6                       | 1.2                  | 1.2                      | 1.2                         | 6.1                         | 4.5                         | 40.2                       | 145                        | 86      | 30                         | 0       | 0              | 0            | 0                   | 2                   | 1       |  |
| BEAUMONT                  | 68                 | 45                 | 84              | 36             | 57      | -6                       | 1.6                  | 1.6                      | 1.6                         | 7.7                         | 6.6                         | 53.4                       | 114                        | 93      | 51                         | 0       | 0              | 0            | 0                   | 3                   | 1       |  |
| BROWNSVILLE               | 78                 | 58                 | 92              | 41             | 68      | -2                       | 1.1                  | 1.1                      | 1.1                         | 3.1                         | 4.6                         | 25.5                       | 110                        | 89      | 49                         | 1       | 0              | 0            | 2                   | 0                   | 0       |  |
| CORPUS CHRISTI            | 74                 | 52                 | 91              | 42             | 63      | -5                       | 1.4                  | 1.4                      | 1.4                         | 0.3                         | 5.4                         | 36.1                       | 126                        | 78      | 36                         | 1       | 0              | 0            | 2                   | 0                   | 0       |  |
| DEL RIO                   | 69                 | 43                 | 85              | 32             | 56      | -7                       | 1.0                  | 1.0                      | 1.0                         | 3.0                         | 1.2                         | 19.4                       | 120                        | 77      | 29                         | 0       | 0              | 1            | 0                   | 0                   | 0       |  |
| EL PASO                   | 62                 | 35                 | 74              | 26             | 48      | -7                       | 1.1                  | 1.1                      | 1.1                         | 5.2                         | 23                          | 9.9                        | 141                        | 71      | 25                         | 0       | 0              | 3            | 1                   | 0                   | 0       |  |
| FORT WORTH                | 63                 | 42                 | 77              | 32             | 53      | -6                       | 1.7                  | 1.7                      | 1.7                         | 7.0                         | 101                         | 35.1                       | 126                        | 83      | 40                         | 0       | 0              | 1            | 1                   | 1                   | 1       |  |
| GALVESTON                 | 68                 | 55                 | 82              | 46             | 61      | -5                       | 3.5                  | 3.5                      | 3.5                         | 8.8                         | 96                          | 45.2                       | 131                        | 77      | 53                         | 0       | 0              | 0            | 0                   | 2                   | 1       |  |
| HOUSTON                   | 69                 | 44                 | 87              | 36             | 57      | -7                       | 1.9                  | 1.9                      | 1.9                         | 4.0                         | 41                          | 44.9                       | 113                        | 92      | 43                         | 0       | 0              | 0            | 0                   | 1                   | 1       |  |
| LUBBOCK                   | 61                 | 34                 | 74              | 27             | 47      | -5                       | 1.0                  | 1.0                      | 1.0                         | 0.7                         | 17                          | 19.6                       | 117                        | 63      | 22                         | 0       | 0              | 3            | 0                   | 0                   | 0       |  |
| MIDLAND                   | 63                 | 36                 | 77              | 27             | 50      | -6                       | 1.7                  | 1.7                      | 1.7                         | 2.2                         | 5                           | 20.1                       | 159                        | 60      | 21                         | 0       | 0              | 3            | 0                   | 0                   | 0       |  |
| SAN ANGELO                | 64                 | 39                 | 78              | 27             | 52      | -6                       | 1.1                  | 1.1                      | 1.1                         | 1.7                         | 32                          | 19.4                       | 116                        | 81      | 30                         | 0       | 0              | 2            | 1                   | 0                   | 0       |  |
| SAN ANTONIO               | 70                 | 42                 | 83              | 31             | 56      | -7                       | 1.5                  | 1.5                      | 1.5                         | 2.5                         | 34                          | 41.3                       | 159                        | 87      | 30                         | 0       | 0              | 1            | 2                   | 0                   | 0       |  |
| VICTORIA                  | 71                 | 48                 | 86              | 36             | 60      | -6                       | 1.7                  | 1.7                      | 1.7                         | 5.5                         | 55                          | 46.1                       | 139                        | 87      | 39                         | 0       | 0              | 0            | 0                   | 1                   | 1       |  |
| WACO                      | 67                 | 41                 | 81              | 30             | 54      | -7                       | 1.4                  | 1.4                      | 1.4                         | 3.1                         | 60                          | 31.6                       | 116                        | 86      | 36                         | 0       | 0              | 1            | 2                   | 0                   | 0       |  |
| WICHITA FALLS             | 64                 | 35                 | 75              | 23             | 49      | -7                       | 1.7                  | 1.7                      | 1.7                         | 4.4                         | 1.9                         | 30                         | 22.3                       | 91      | 78                         | 29      | 0              | 0            | 2                   | 0                   | 0       |  |
| UT CEDAR CITY             | 52                 | 27                 | 60              | 20             | 39      | -4                       | 1.3                  | 1.3                      | 1.3                         | 2.2                         | 1.8                         | 10.3                       | 115                        | 86      | 39                         | 0       | 0              | 6            | 1                   | 0                   | 0       |  |
| SALT LAKE CITY            | 49                 | 34                 | 58              | 26             | 41      | -3                       | 1.3                  | 1.3                      | 1.3                         | 1.0                         | 2.8                         | 9.8                        | 76                         | 92      | 45                         | 0       | 0              | 2            | 5                   | 1                   | 1       |  |
| VT BURLINGTON             | 43                 | 29                 | 54              | 20             | 36      | -5                       | 1.6                  | 1.6                      | 1.6                         | 9.3                         | 140                         | 27.8                       | 96                         | 95      | 47                         | 0       | 0              | 4            | 4                   | 1                   | 1       |  |
| VA NORFOLK                | 64                 | 50                 | 73              | 45             | 57      | 2                        | 1.3                  | 1.3                      | 1.3                         | 6.2                         | 74                          | 41.1                       | 104                        | 90      | 65                         | 0       | 0              | 0            | 0                   | 3                   | 1       |  |
| RICHMOND                  | 62                 | 46                 | 74              | 37             | 54      | 1                        | 1.1                  | 1.1                      | 1.1                         | 3.5                         | 67                          | 37.4                       | 98                         | 96      | 69                         | 0       | 0              | 0            | 0                   | 5                   | 0       |  |
| ROANOKE                   | 55                 | 42                 | 71              | 37             | 49      | -2                       | 1.3                  | 1.3                      | 1.3                         | 7.9                         | 5.3                         | 36.1                       | 105                        | 95      | 71                         | 0       | 0              | 0            | 0                   | 4                   | 1       |  |
| WA QUILLAYUTE             | 54                 | 42                 | 55              | 35             | 48      | 2                        | 3.1                  | 3.1                      | 3.1                         | 1.4                         | 19.6                        | 71.8                       | 91                         | 99      | 76                         | 0       | 0              | 0            | 0                   | 6                   | 3       |  |
| SEATTLE-TACOMA            | 55                 | 45                 | 57              | 38             | 50      | 3                        | 1.5                  | 1.5                      | 1.5                         | 4.6                         | 5.1                         | 24.8                       | 89                         | 97      | 68                         | 0       | 0              | 0            | 0                   | 4                   | 2       |  |
| SPOKANE                   | 45                 | 34                 | 51              | 31             | 40      | 1                        | 1.1                  | 1.1                      | 1.1                         | 7.8                         | 2.2                         | 10.5                       | 84                         | 96      | 72                         | 0       | 0              | 3            | 5                   | 1                   | 1       |  |
| YAKIMA                    | 53                 | 34                 | 59              | 27             | 43      | 2                        | 1.2                  | 1.2                      | 1.2                         | 0.1                         | 1.1                         | 5.1                        | 89                         | 97      | 56                         | 0       | 0              | 2            | 5                   | 0                   | 0       |  |
| WV BECKLEY                | 52                 | 41                 | 67              | 30             | 47      | 2                        | 1.7                  | 1.7                      | 1.7                         | 0.5                         | 3.8                         | 32.8                       | 89                         | 95      | 66                         | 0       | 0              | 2            | 3                   | 0                   | 0       |  |
| CHARLESTON                | 57                 | 42                 | 74              | 34             | 50      | 1                        | 1.5                  | 1.5                      | 1.5                         | 9.9                         | 1.0                         | 3.8                        | 62                         | 34.9    | 95                         | 96      | 56             | 0            | 0                   | 6                   | 1       |  |
| HUNTINGTON                | 58                 | 43                 | 73              | 34             | 51      | 1                        | 1.9                  | 1.9                      | 1.9                         | 3.4                         | 3.1                         | 32.3                       | 91                         | 90      | 59                         | 0       | 0              | 0            | 0                   | 5                   | 0       |  |
| PARKERSBURG               | 56                 | 42                 | 71              | 32             | 49      | 0                        | 1.7                  | 1.7                      | 1.7                         | 4.4                         | 3.7                         | 30.0                       | 90                         | 93      | 53                         | 0       | 0              | 1            | 3                   | 0                   | 0       |  |
| WI GREEN BAY              | 40                 | 30                 | 52              | 24             | 35      | -5                       | 2.0                  | 2.0                      | 2.0                         | 1.0                         | 8.5                         | 24.7                       | 98                         | 96      | 69                         | 0       | 0              | 4            | 4                   | 2                   | 0       |  |
| LACROSSE                  | 36                 | 31                 | 46              | 26             | 34      | -7                       | 1.4                  | 1.4                      | 1.4                         | 0.4                         | 7.9                         | 27.1                       | 98                         | 86      | 71                         | 0       | 0              | 4            | 4                   | 2                   | 0       |  |
| MADISON                   | 40                 | 33                 | 53              | 26             | 36      | -4                       | 1.1                  | 1.1                      | 1.1                         | 7.9                         | 8.2                         | 26.1                       | 94                         | 85      | 66                         | 0       | 0              | 3            | 3                   | 1                   | 1       |  |
| MILWAUKEE                 | 42                 | 33                 | 54              | 24             | 37      | -5                       | 2.4                  | 2.4                      | 2.4                         | 1.9                         | 1.5                         | 28.5                       | 105                        | 89      | 62                         | 0       | 0              | 2            | 3                   | 2                   | 0       |  |
| WAUSAU                    | 35                 | 26                 | 44              | 16             | 31      | -7                       | 1.7                  | 1.7                      | 1.7                         | 3.5                         | 11.3                        | 29.2                       | 101                        | 99      | 76                         | 0       | 0              | 6            | 4                   | 0                   | 0       |  |
| WY CASPER                 | 44                 | 25                 | 56              | 21             | 35      | -2                       | 1.4                  | 1.4                      | 1.4                         | 2.3                         | 9.9                         | 7.9                        | 78                         | 83      | 48                         | 0       | 0              | 7            | 2                   | 0                   | 0       |  |
| CHEYENNE                  | 38                 | 23                 | 49              | 13             | 31      | -8                       | 1.6                  | 1.6                      | 1.6                         | 4.4                         | 1.1                         | 11.4                       | 91                         | 84      | 52                         | 0       | 0              | 7            | 2                   | 0                   | 0       |  |
| LANDER                    | 43                 | 24                 | 55              | 19             | 33      | -2                       | 1.4                  | 1.4                      | 1.4                         | 2.2                         | 1.9                         | 11.1                       | 93                         | 81      | 48                         | 0       | 0              | 7            | 2                   | 0                   | 0       |  |
| SHERIDAN                  | 43                 | 25                 | 57              | 21             | 34      | -3                       | 1.5                  | 1.5                      | 1.5                         | 3.3                         | 1.8                         | 13.0                       | 95                         | 92      | 57                         | 0       | 0              | 7            | 3                   | 0                   | 0       |  |

Based on 1951-80 normals.

# HEATING DEGREE DAYS (Base 65° F)

## November 1 - 7, 1992

(Cumulative totals and departures from normal are for the period July 1 - November 7, 1992)

| STATES AND STATIONS | WEEKLY |           | CUMULATIVE |           |               | STATES AND STATIONS | WEEKLY |           | CUMULATIVE |           |               | STATES AND STATIONS | WEEKLY |           | CUMULATIVE |           |               |
|---------------------|--------|-----------|------------|-----------|---------------|---------------------|--------|-----------|------------|-----------|---------------|---------------------|--------|-----------|------------|-----------|---------------|
|                     | TOTAL  | DEPARTURE | TOTAL      | DEPARTURE | DEP. from '91 |                     | TOTAL  | DEPARTURE | TOTAL      | DEPARTURE | DEP. from '91 |                     | TOTAL  | DEPARTURE | TOTAL      | DEPARTURE | DEP. from '91 |
| AL BIRMINGHAM       | 88     | 21        | 208        | -3        | -55           | SHREVEPORT          | 88     | 41        | 123        | 0         | -89           | DAYTON              | 137    | 8         | 659        | 118       | 23            |
| MOBILE              | 59     | 22        | 77         | -10       | -78           | ME CARIBOU          | 231    | 32        | 1428       | 2         | 149           | TOLEDO              | 153    | 6         | 814        | 119       | 96            |
| MONTGOMERY          | 55     | 2         | 114        | -25       | -82           | PORTLAND            | 178    | 22        | 1015       | 67        | 165           | YOUNGSTOWN          | 160    | 16        | 923        | 190       | 172           |
| AK ANCHORAGE        | 268    | -5        | 2446       | 240       | 343           | MD BALTIMORE        | 107    | 4         | 492        | 99        | 43            | OK OKLAHOMA CITY    | 134    | 54        | 256        | 17        | -146          |
| BARROW              | 431    | 9         | 4795       | 120       | 183           | SALISBURY           | 93     | -3        | 471        | 101       | 46            | TULSA               | 145    | 66        | 307        | 64        | -62           |
| FAIRBANKS           | 401    | 24        | 3105       | 474       | 574           | MA BOSTON           | 148    | 38        | 697        | 171       | 176           | OR ASTORIA          | 107    | -8        | 993        | 3         | 13            |
| JUNEAU              | 163    | -42       | 1974       | -34       | -30           | CHATAM              | 137    | 23        | 697        | 62        | 171           | BURNS               | 186    | 11        | 1144       | 156       | 155           |
| KODIAK              | 206    | 11        | 2138       | 81        | 223           | MI ALPENA           | 202    | 26        | 1398       | 269       | 237           | MEDFORD             | 81     | -45       | 342        | -236      | 23            |
| NOME                | 375    | 67        | 3439       | 385       | 1077          | DETROIT             | 162    | 16        | 837        | 142       | 130           | PENDLETON           | 133    | -11       | 624        | -62       | -24           |
| AZ FLAGSTAFF        | 195    | 20        | 915        | -151      | 120           | FLINT               | 177    | 26        | 977        | 181       | 104           | PORTLAND            | 98     | -19       | 477        | -169      | 36            |
| PHOENIX             | 7      | -12       | 7          | -25       | -34           | GRAND RAPIDS        | 185    | 32        | 987        | 230       | 100           | SALEM               | 87     | -37       | 519        | -219      | -5            |
| PRESCOTT            | 135    | 14        | 311        | -182      | -9            | HOUGHTON LAKE       | 210    | 34        | 1255       | 145       | 126           | PA ALLENTOWN        | 133    | 5         | 748        | 162       | 140           |
| TUCSON              | 42     | 12        | 42         | -17       | -44           | LANSING             | 181    | 28        | 1077       | 301       | 147           | ERIE                | 148    | 8         | 721        | -14       | 98            |
| WINSLOW             | 170    | 50        | 410        | 8         | -23           | MARQUETTE           | 254    | 49        | 1742       | 356       | 113           | HARRISBURG          | 129    | 10        | 635        | 136       | 83            |
| YUMA                | 0      | -9        | 0          | -17       | -12           | MUSKEGON            | 184    | 36        | 961        | 196       | 113           | PHILADELPHIA        | 104    | -2        | 465        | 53        | 73            |
| AR FORT SMITH       | 113    | 38        | 228        | -3        | -119          | SAULT ST MARIE      | 229    | 40        | 1628       | 298       | 262           | PITTSBURGH          | 141    | 6         | 740        | 99        | 89            |
| LITTLE ROCK         | 112    | 44        | 205        | -4        | -103          | MN ALEXANDRIA       | 267    | 64        | 1237       | 175       | -63           | SCRANTON            | 148    | 9         | 793        | 88        | 74            |
| CA BAKERSFIELD      | 16     | -19       | 23         | -62       | -75           | DULUTH              | 258    | 45        | 1648       | 270       | 02            | RI PROVIDENCE       | 145    | 21        | 672        | 82        | 146           |
| EUREKA              | 52     | -35       | 790        | -399      | -175          | INT'L FALLS         | 271    | 41        | 1706       | 239       | 19            | SC CHARLESTON       | 21     | -22       | 95         | -24       | -15           |
| FRESNO              | 29     | -25       | 45         | -99       | -63           | MINNEAPOLIS         | 240    | 61        | 1048       | 195       | -93           | COLUMBIA            | 33     | -28       | 188        | 4         | -21           |
| LOS ANGELES         | 0      | -21       | 1          | -132      | -35           | ROCHESTER           | 246    | 63        | 1232       | 303       | -44           | FLORENCE            | 30     | -27       | 173        | 10        | -6            |
| REDDING             | 17     | -36       | 61         | -82       | -50           | SAINT CLOUD         | 253    | 53        | 1304       | 236       | 01            | GREENVILLE          | 80     | 5         | 328        | 84        | 32            |
| SACRAMENTO          | 25     | -31       | 47         | -95       | -63           | MS GREENWOOD        | 89     | 25        | 149        | -53       | -104          | SD ABERDEEN         | 266    | 68        | 1210       | 249       | 32            |
| SAN DIEGO           | 0      | -20       | 0          | -60       | -25           | JACKSON             | 84     | 28        | 130        | -24       | -89           | HURON               | 259    | 73        | 1103       | 202       | -25           |
| SAN FRANCISCO       | 13     | -44       | 155        | -322      | -136          | MERIDIAN            | 74     | 13        | 124        | -60       | -88           | RAPID CITY          | 241    | 66        | 1007       | 113       | -94           |
| STOCKTON            | 14     | -39       | 33         | -96       | -73           | MO CAPE GIRARDEAU   | 132    | 29        | 411        | 72        | -55           | STIOUX FALLS        | 257    | 76        | 1014       | 156       | -129          |
| CO DENVER           | 205    | 50        | 642        | -62       | -172          | COLUMBIA            | 190    | 73        | 555        | 116       | -84           | TN CHATTANOOGA      | 95     | 8         | 313        | 25        | -13           |
| GRAND JCT.          | 185    | 47        | 434        | -95       | -100          | KANSAS CITY         | 197    | 80        | 554        | 138       | -112          | KNOXVILLE           | 94     | 5         | 344        | 40        | -29           |
| PUEBLO              | 199    | 57        | 658        | 81        | -80           | SAINT LOUIS         | 159    | 50        | 412        | 4         | -90           | MEMPHIS             | 105    | 35        | 207        | -9        | -83           |
| CT BRIDGEPORT       | 131    | 24        | 587        | 146       | 124           | SPRINGFIELD         | 173    | 66        | 450        | 58        | -109          | NASHVILLE           | 93     | 5         | 300        | 0         | -87           |
| HARTFORD            | 163    | 30        | 818        | 184       | 197           | MT BILLINGS         | 176    | -1        | 954        | 38        | -129          | TX ABILENE          | 94     | 35        | 114        | -41       | -203          |
| DE WILMINGTON       | 106    | -1        | 529        | 104       | 80            | GLASGOW             | 227    | 19        | 1223       | 94        | -59           | AMARILLO            | 170    | 65        | 362        | 14        | -197          |
| DC WASHINGTON       | 92     | 6         | 422        | 125       | 81            | GREAT FALLS         | 197    | 13        | 1273       | 195       | 14            | AUSTIN              | 62     | 29        | 62         | -8        | -104          |
| FL APALACHICOLA     | 27     | 4         | 35         | -12       | -57           | HAVRE               | 201    | -6        | 1318       | 156       | -39           | BEAUMONT            | 64     | 34        | 66         | 1         | -51           |
| DAYTONA BEACH       | 10     | 2         | 10         | 2         | -9            | HELENA              | 204    | 1         | 1205       | -36       | 24            | BROWNSVILLE         | 19     | 12        | 19         | 12        | -41           |
| FORT MYERS          | 0      | -2        | 0          | -2        | -1            | KALISPELL           | 194    | -19       | 1417       | -33       | -50           | CORPUS CHRISTI      | 37     | 18        | 37         | 7         | -48           |
| JACKSONVILLE        | 22     | -1        | 41         | -7        | -23           | MILES CITY          | 208    | 17        | 967        | 4         | -214          | DEL RIO             | 65     | 37        | 65         | 10        | -87           |
| KEY WEST            | 0      | 0         | 0          | 0         | 00            | MISSOULA            | 195    | -10       | 1203       | -45       | 80            | EL PASO             | 116    | 50        | 137        | -25       | -59           |
| MIAMI               | 0      | 0         | 0          | 0         | 00            | NE GRAND ISLAND     | 244    | 92        | 789        | 125       | -103          | FORT WORTH          | 85     | 38        | 99         | -6        | -156          |
| ORLANDO             | 5      | 1         | 5          | 1         | -10           | LINCOLN             | 230    | 85        | 684        | 91        | -138          | GALVESTON           | 44     | 25        | 44         | 14        | -58           |
| TALLAHASSEE         | 32     | 2         | 72         | 5         | -57           | NORFOLK             | 242    | 80        | 842        | 105       | -134          | HOUSTON             | 65     | 33        | 66         | -2        | -68           |
| TAMPA               | 7      | 0         | 7          | 0         | -9            | NORTH PLATTE        | 228    | 55        | 885        | 80        | -94           | LUBBOCK             | 121    | 35        | 211        | -45       | -220          |
| W. PALM BEACH       | 0      | 0         | 0          | 0         | 00            | OMAHA               | 232    | 94        | 715        | 162       | -132          | MIDLAND-ODESSA      | 106    | 42        | 139        | -28       | -191          |
| GA ATLANTA          | 63     | -5        | 185        | -21       | -38           | SCOTTSBLUFF         | 212    | 42        | 854        | 39        | -104          | SAN ANGELO          | 92     | 40        | 119        | -8        | -167          |
| AUGUSTA             | 35     | -21       | 149        | -14       | -58           | VALENTINE           | 264    | 85        | 1004       | 162       | -96           | SAN ANTONIO         | 67     | 37        | 67         | 4         | -79           |
| MACON               | 43     | -8        | 139        | 2         | -45           | NV ELY              | 201    | 13        | 979        | -131      | -69           | VICTORIA            | 50     | 29        | 50         | 9         | -54           |
| SAVANNAH            | 26     | -11       | 74         | -21       | -31           | LAS VEGAS           | 53     | 2         | 65         | -49       | -48           | WACO                | 77     | 37        | 85         | -1        | -137          |
| ID BOISE            | 163    | 15        | 662        | -50       | 06            | RENO                | 105    | -46       | 452        | -405      | 44            | WICHITA FALLS       | 107    | 41        | 155        | -32       | -173          |
| LEWISTON            | 134    | -16       | 629        | -80       | -39           | WINNEMUCCA          | 156    | -8        | 757        | -147      | 120           | UT BLANDING         | 185    | 33        | 522        | -149      | 31            |
| POCATELLO           | 181    | 4         | 850        | -92       | -119          | NH CONCORD          | 191    | 30        | 1100       | 169       | 220           | CEDAR CITY          | 177    | 27        | 555        | -112      | -70           |
| IL CHICAGO          | 187    | 47        | 817        | 225       | 14            | NJ ATLANTIC CITY    | 108    | -2        | 595        | 160       | 73            | SALT LAKE CITY      | 164    | 20        | 511        | -107      | -72           |
| MOLINE              | 195    | 52        | 783        | 191       | -16           | NM ALBUQUERQUE      | 162    | 48        | 295        | -73       | -65           | VT BURLINGTON       | 200    | 35        | 1088       | 118       | 189           |
| PEORIA              | 177    | 38        | 676        | 106       | -93           | CLOVIS              | 157    | 53        | 309        | -52       | -221          | VA LYNCHBURG        | 94     | -6        | 415        | 25        | 10            |
| QUINCY              | 188    | 60        | 659        | 159       | -65           | ROSWELL             | 114    | 32        | 179        | -55       | -204          | NORFOLK             | 54     | -14       | 248        | 25        | -11           |
| ROCKFORD            | 196    | 43        | 905        | 207       | 22            | NY ALBANY           | 175    | 28        | 962        | 195       | 204           | RICHMOND            | 77     | -11       | 393        | 60        | 46            |
| SPRINGFIELD         | 162    | 38        | 546        | 67        | -134          | BINGHAMTON          | 189    | 30        | 1164       | 284       | 308           | ROANOKE             | 114    | 12        | 470        | 63        | 53            |
| IN EVANSVILLE       | 121    | 12        | 404        | -3        | -132          | BUFFALO             | 160    | 18        | 907        | 169       | 154           | WA COLVILLE         | 185    | -6        | 1083       | -34       | 45            |
| FORT WAYNE          | 155    | 14        | 749        | 119       | 17            | NEW YORK            | 116    | 20        | 462        | 85        | 115           | QUILLAYUTE          | 119    | -16       | 1104       | -120      | -16           |
| INDIANAPOLIS        | 139    | 9         | 598        | 76        | -5            | ROCHESTER           | 167    | 27        | 983        | 260       | 180           | SEATTLE-TACOMA      | 104    | -21       | 618        | -237      | 02            |
| SOUTH BEND          | 176    | 37        | 773        | 142       | 20            | SYRACUSE            | 172    | 32        | 956        | 222       | 194           | SPOKANE             | 176    | -8        | 962        | -50       | 29            |
| IA DES MOINES       | 216    | 72        | 740        | 159       | -124          | NC ASHEVILLE        | 103    | -4        | 464        | 15        | -11           | YAKIMA              | 151    | -10       | 790        | -62       | 26            |
| DUBUQUE             | 217    | 54        | 1016       | 250       | 29            | CAPE HATTERAS       | 17     | -30       | 112        | -11       | 15            | WV BECKLEY          | 127    | -8        | ---        | ---       | ---           |
| SIoux CITY          | 237    | 79        | 874        | 215       | -114          | CHARLOTTE           | 52     | -23       | 236        | -15       | 05            | CHARLESTON          | 103    | -9        | 511        | 46        | 09            |
| WATERLOO            | 211    | 45        | 925        | 124       | -110          | GREENSBORO          | 87     | -4        | 390        | 66        | 52            | HUNTINGTON          | 100    | -10       | 479        | 14        | -15           |
| KS CONCORDIA        | 214    | 86        | 630        | 160       | -75           | NEW BERN            | 25     | -34       | 172        | -11       | 02            | PARKERSBURG         | 111    | -3        | 575        | 102       | -5            |
| DODGE CITY          | 197    | 76        | 534        | 119       | -117          | RALEIGH-DURHAM      | 58     | -23       | 314        | 37        | 08            | WI GREEN BAY        | 212    | 35        | 1113       | 172       | 15            |
| GOODLAND            | 212    | 57        | 730        | 67        | -39           | WILMINGTON          | 26     | -26       | 159        | 13        | -11           | LA CROSSE           | 216    | 51        | 951        | 175       | -89           |
| TOPEKA              | 194    | 73        | 542        | 78        | -98           | ND BISMARCK         | 266    | 56        | 1346       | 222       | -40           | MADISON             | 199    | 29        | 980        | 115       | -35           |
| WICHITA             | 173    | 65        | 409        | 43        | -169          | FARGO               | 270    | 62        | 1288       | 207       | -25           | MILWAUKEE           | 192    | 34        | 871        | 110       | 41            |
| KY BOWLING GREEN    | 102    | -2        | 404        | 29        | -65           | GRAND FORKS         | 274    | 55        | 1384       | 153       | -51           | NAUSAU              | 239    | 49        | 1283       | 250       | -16           |
| LEXINGTON           | 114    | 2         | 480        | 42        | -43           | WILLISTON           | 242    | 25        | 1373       | 181       | -28           | WY CASPER           | 212    | 21        | 882        | -145      | -184          |
| LOUISVILLE          | 103    | -2        | 368        | -20       | -58           | OH AKRON-CANTON     | 157    | 19        | 853        | 205       | 141           | CHEYENNE            | 239    | 55        | 1021       | -3        | -89           |
| LA BRATON ROUGE     | 65     | 31        | 71         | -10       | -75           | CLEVELAND           | 149    | 16        | 769        | 135       | 115           | LANDER              | 221    | 18        | 914        | -154      | -152          |
| LAKE CHARLES        | 64     | 31        | 66         | -12       | -70           | COLUMBUS            | 121    | -10       | 648        | 80        | 19            | SHERIDAN            | 216    | 23        | 1090       | 3         | -51           |
| NEW ORLEANS         | 52     | 24        | 54         | -5        | -75           | CINCINNATI          | 130    | 8         | 598        | 107       | 51            |                     |        |           |            |           |               |

Based on 1951-80 normals.

## October Weather and Crop Summary

### Weather

Storm systems were few in number but often intense during October. Separate storms pulled sub-freezing cold into the southern Plains on October 8, and ended the growing season across the eastern Corn Belt on October 19. In addition, heavy rains soaked the Southeast early in the month, and rain and wet snow dampened the central Plains and western Corn Belt on October 7 and 8. Between storms, conditions were often favorable for harvest and fieldwork activities. Late in the month, a series of Pacific storms crashed a ridge of high pressure along the west coast, allowing the first precipitation of the rainy season to fall in California on October 20, 29, and 30.

With a ridge in place over the West for most of the month, temperatures averaged up to 5°F above normal in parts of California and Arizona. Eureka, CA, enjoyed its warmest October on record, with an average temperature of 58.0°F (3.3°F above normal). Early-month readings of 90°F in Billings, MT, and 91°F in Pocatello, ID, were October records. Even when storminess arrived toward month's end, it was accompanied by mild Pacific-origin air. The October warmth propelled Salt Lake City, UT, to its longest freeze-free period on record. The streak reached 236 days before ending on November 3, breaking the record of 223 days set in 1985. East of the Rockies, however, two impressive shots of Canadian-origin air and several lesser cool spells kept monthly average temperatures up to 5°F below normal in the Northeast.

Only a handful of storms broke an otherwise quiet weather pattern. Early in the month, a vigorous storm developed in the Gulf of Mexico and lashed the Southeast with heavy rain from October 2-4. Several tornadoes battered Pinellas Park, FL. The southern Atlantic coast endured several days of heavy surf and beach erosion, as wave heights reached 20 feet at Diamond Shoals, NC. A few days later, a powerful storm wound up in the Nation's mid-section. The system produced the earliest snow on record in Concordia, KS (on October 7), delayed harvest in the western Corn Belt, and drew cold air into the southern Plains. Dalhart, TX, reached 27°F. The storm also brought renewed heavy rains to the Southeast on October 8. Due to saturated soils from earlier rains, flash flooding occurred in South Carolina.

A week of tranquil weather prevailed until the strongest cold front of the month bore down on the Corn Belt. Heavy rain preceded the front from the Great Lakes to Texas, but ended quickly as cold air arrived by October 17. A second, stronger blast of cold air ended the growing season Corn Belt-wide on October 19. Springfield, IL, dipped to 19°F, and sub-freezing cold reached as far south as Columbia, SC (31°F), on October 20. After October 18, changes in the weather pattern included stormy weather (the first significant rains of the season) in the

Pacific Northwest, and a warm weather regime everywhere except in the Northeast. Light rain arrived in California on October 20, and substantial rain fell on October 29-30, with local amounts topping 4 inches. Snowfall reached 30 inches near Lake Tahoe. Late in the month, Pacific energy gradually evolved into a major storm east of the Rockies, resulting in heavy rain in the southeastern Plains, and light snow in the Dakotas. However, by month's end, little or no rain had fallen in the High Plains of Texas and Oklahoma for the second month in a row, stressing the emerging winter wheat crop. Between September 1 and October 31, rainfall at Amarillo, Midland, and Lubbock, TX, was both less than 1 inch and less than 20 percent of normal.

### Crop Progress

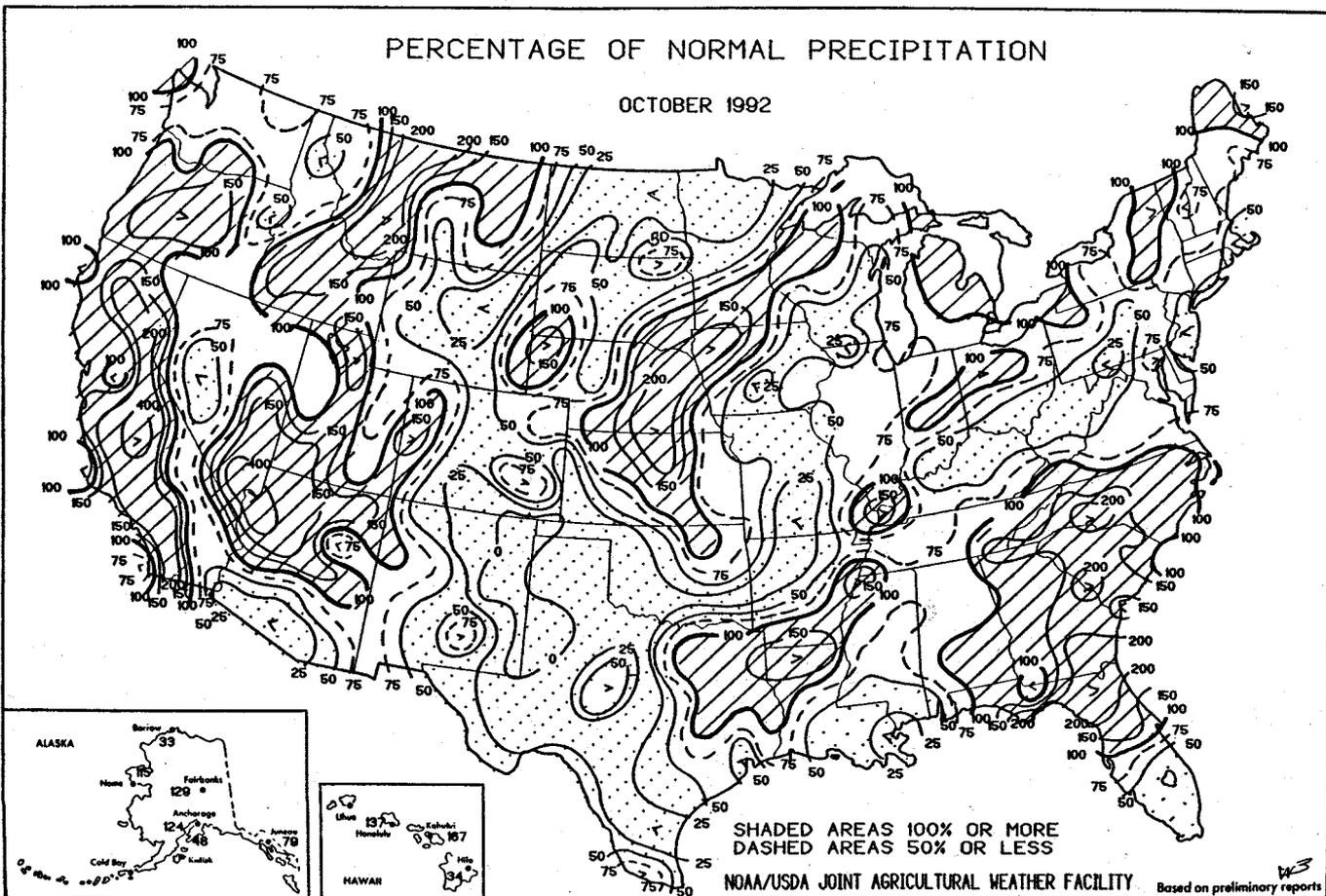
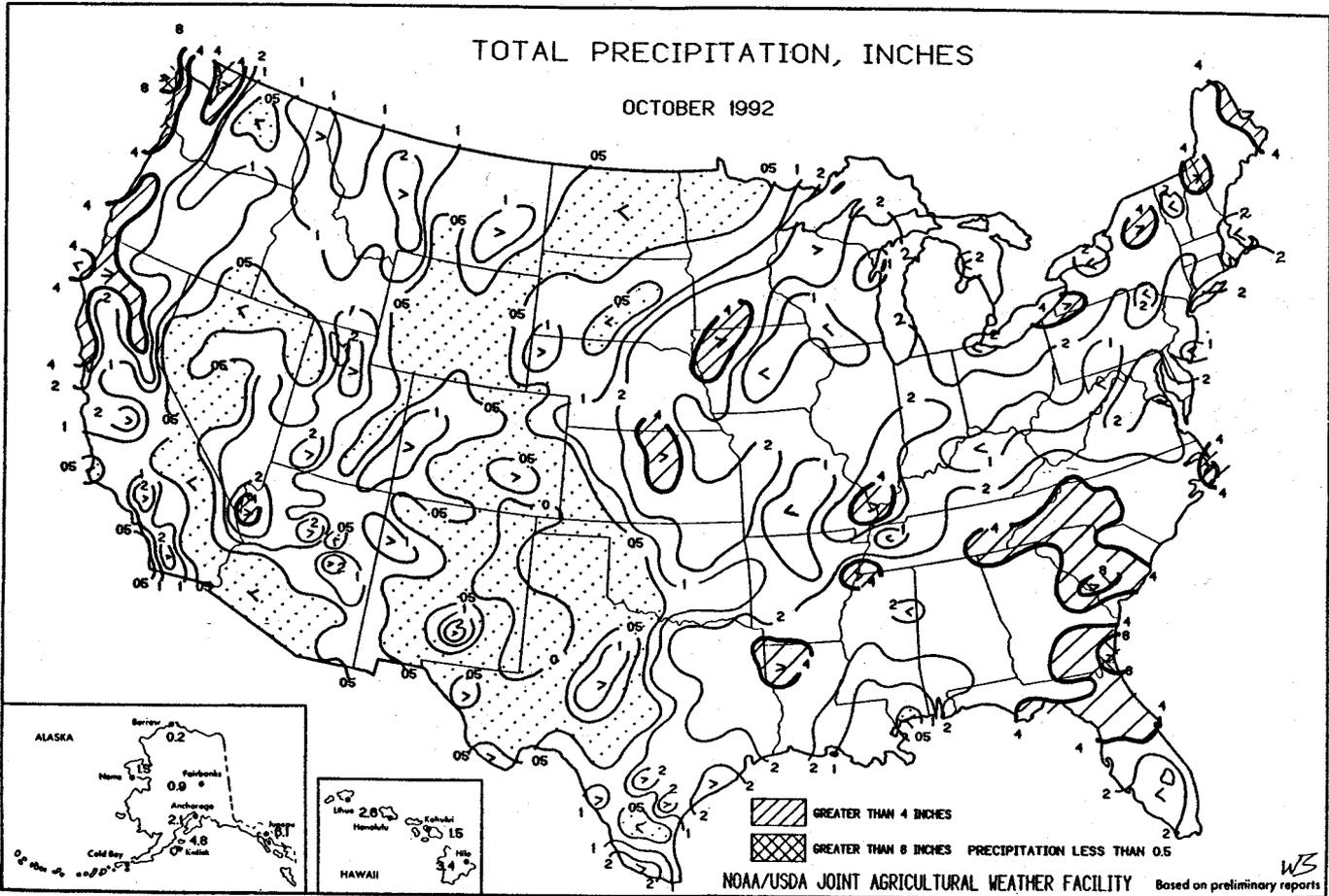
The beginning of the month saw most row crops behind normal in maturity and harvest progress. Frost in the early part of the month brought an end to the growing season in the northern Great Plains and the upper Mississippi Valley. At mid-month, frost ended the growing season in the west North Central region. The eastern Corn Belt's growing season ended with a killing frost about October 19. Frost affected some corn acreage in the northern Corn Belt. Harvest was delayed due to the high moisture and lack of suitable drying conditions. At the end of the month snow fell in the upper Midwest, which further complicated harvest there.

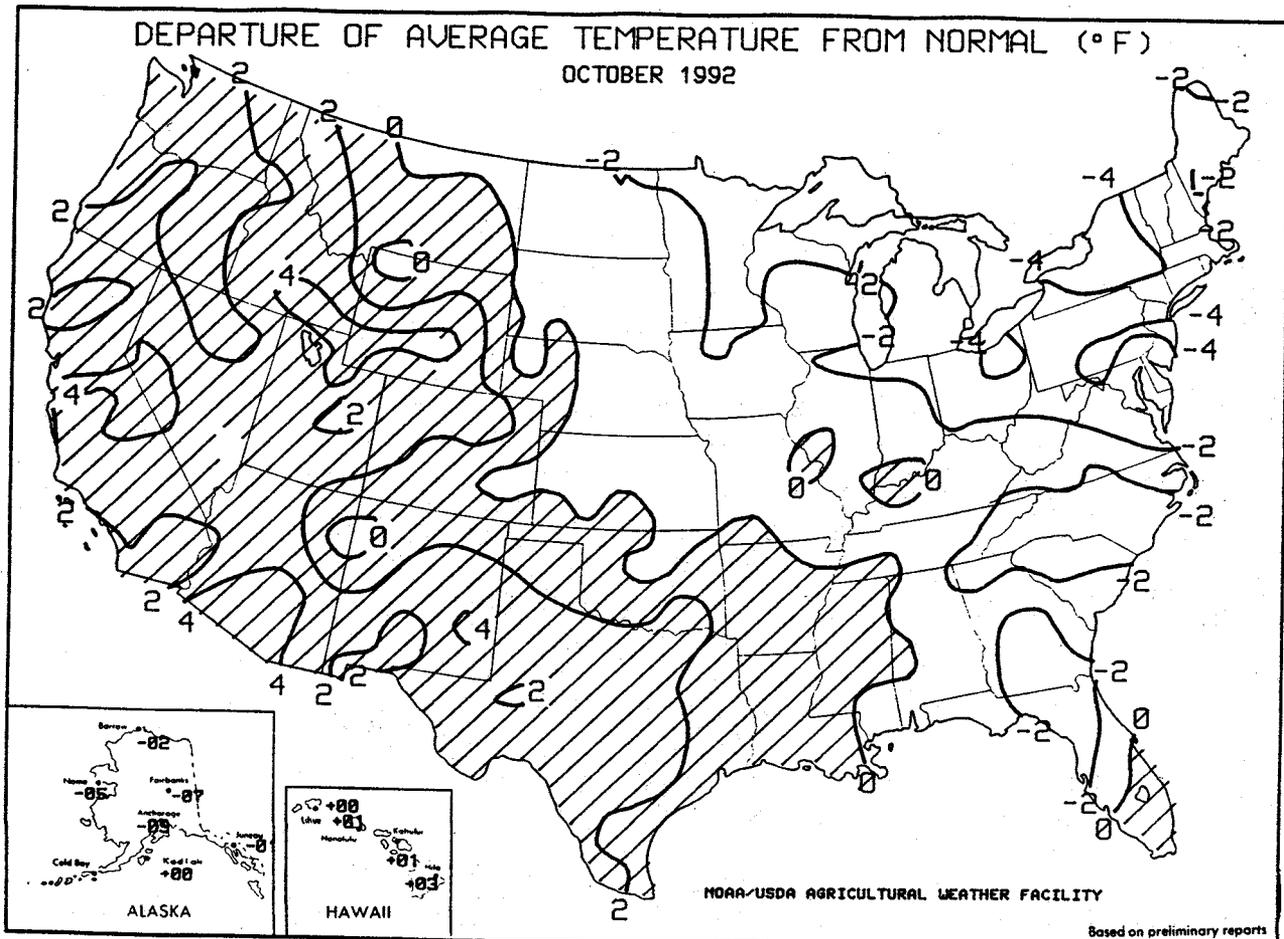
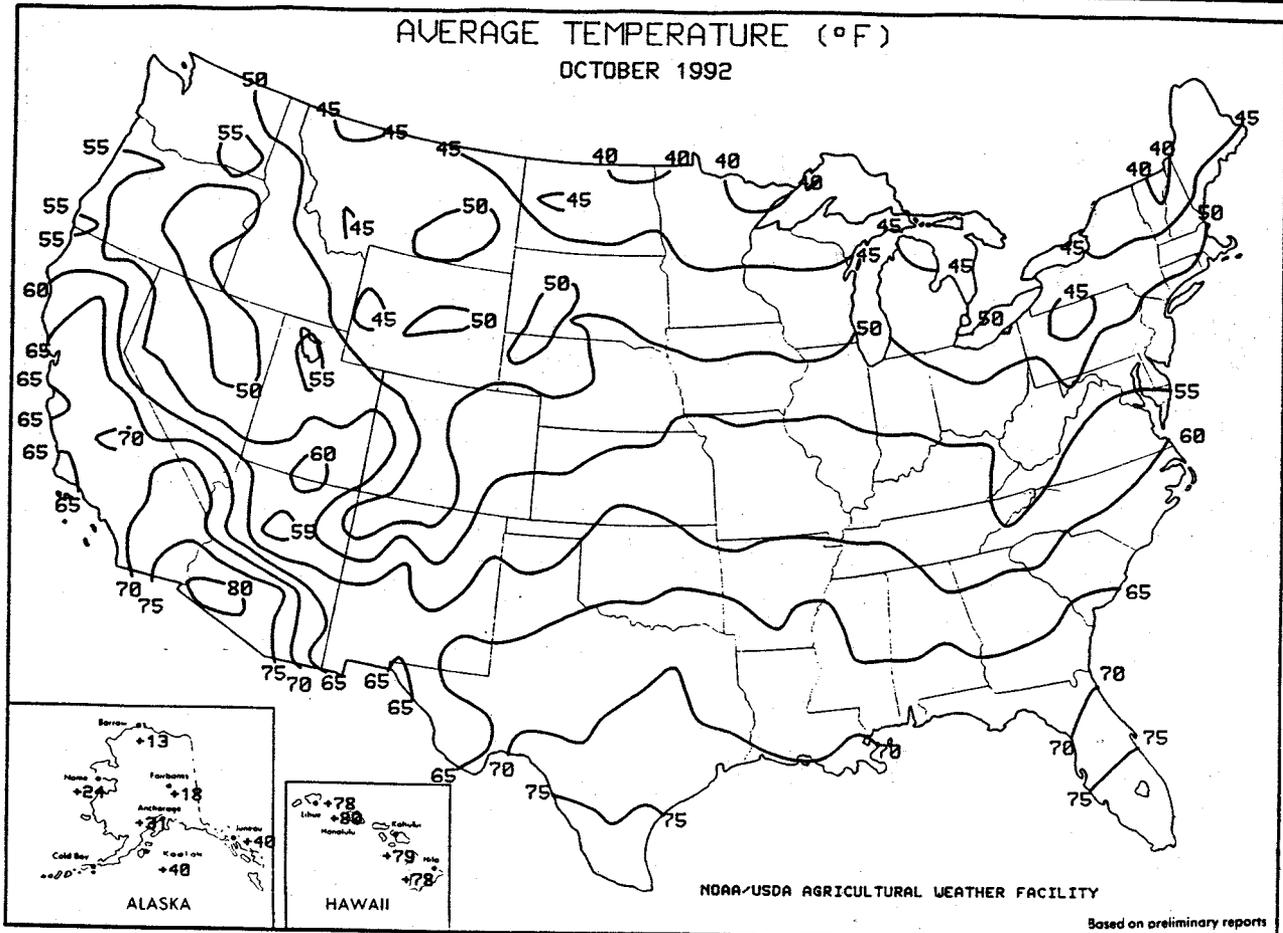
While the soybean crop was also hurt by the frost in some areas, it was generally more mature than the corn. By the middle of the month, the crop was virtually mature. Harvest in the Southeast started early in the period but was delayed by rains. Mid-month saw drier conditions in the southeast and good harvesting conditions generally nationwide. Harvest progressed rapidly and was near completion at the end of the month.

Sorghum maturity was also behind normal. Cool weather the early part of the month delayed progress. Better conditions the rest of the month allowed the crop to mature by month's end. Although harvest advanced, wet grain had delayed harvest in Texas, while late maturity had delayed harvest in Kansas and Nebraska.

The beginning of the month saw cotton harvest active but behind normal. The first half of the period saw the harvest further delayed in the Southeast by rain, while favorable conditions allowed harvest to advance ahead of normal elsewhere. The second half saw favorable conditions over most of the cotton region, which allowed harvest progress to reach normal by the end of the period.

Weather conditions over most of the country allowed the winter wheat seeding to progress in a timely manner. By the end of the month, about 90 percent of the acreage was planted and nearly three-fourths of the crop had emerged.





# TEMPERATURE AND PRECIPITATION SUMMARY

## October 1992

| STATES AND STATIONS | Temp. °F |           | Precip. |           | STATES AND STATIONS | Temp. °F |           | Precip. |           | STATES AND STATIONS | Temp. °F |           | Precip. |           |
|---------------------|----------|-----------|---------|-----------|---------------------|----------|-----------|---------|-----------|---------------------|----------|-----------|---------|-----------|
|                     | AVERAGE  | DEPARTURE | TOTAL   | DEPARTURE |                     | AVERAGE  | DEPARTURE | TOTAL   | DEPARTURE |                     | AVERAGE  | DEPARTURE | TOTAL   | DEPARTURE |
| AL BIRMINGHAM       | 62       | -1        | 2.2     | -0.4      | LA BATON ROUGE      | 69       | 1         | 1.2     | -1.4      | OK YOUNGSTOWN       | 48       | -4        | 2.5     | -0.2      |
| HUNTSVILLE          | 60       | -1        | 2.6     | -0.3      | LAKE CHARLES        | 70       | 1         | 2.3     | -1.4      | OK OKLAHOMA CITY    | 62       | 0         | 1.1     | -1.6      |
| MOBILE              | 67       | -1        | 1.0     | -1.6      | NEW ORLEANS         | 69       | 0         | 0.6     | -2.1      | TULSA               | 61       | -2        | 3.5     | 0.1       |
| MONTGOMERY          | 64       | -1        | 3.1     | 0.8       | SHREVEPORT          | 67       | 0         | 4.1     | 1.5       | OR ASTORIA          | 53       | 0         | 4.1     | -2.1      |
| AK ANCHORAGE        | 32       | -3        | 2.1     | 0.4       | ME CARIBOU          | 41       | -2        | 3.5     | 0.4       | BURNS               | 47       | -1        | 1.4     | 0.6       |
| BARROW              | 13       | -2        | 0.2     | -0.3      | PORTLAND            | 47       | -1        | 2.5     | -1.3      | MEDFORD             | 57       | 3         | 2.4     | 0.7       |
| FAIRBANKS           | 18       | -7        | 0.9     | 0.2       | MD BALTIMORE        | 54       | -3        | 2.7     | -0.4      | PENDLETON           | 54       | 2         | 1.3     | 0.4       |
| JUNEAU              | 40       | -1        | 6.1     | -1.6      | MD BALTIMORE        | 54       | -3        | 1.8     | -1.9      | PORTLAND            | 56       | 2         | 2.9     | -0.2      |
| KODIAK              | 40       | 0         | 4.8     | -2.1      | MA BOSTON           | 53       | -3        | 1.6     | -1.7      | SALEM               | 55       | 2         | 3.5     | 0.2       |
| NOME                | 24       | -4        | 1.5     | 0.3       | MA CHATHAM          | 52       | -1        | 1.3     | -2.4      | PA ALLENTOWN        | 49       | -4        | 1.9     | -1.2      |
| AZ FLAGSTAFF        | 47       | 0         | 3.6     | 2.1       | MI ALPENA           | 44       | -3        | 2.3     | 0.3       | ERIE                | 51       | -1        | 4.0     | 0.4       |
| PHOENIX             | 80       | 6         | 0.3     | -0.4      | MI DETROIT          | 50       | -3        | 2.0     | -0.1      | HARRISBURG          | 51       | -4        | 1.6     | -1.1      |
| PRESCOTT            | 60       | 3         | 1.0     | 0.4       | MI FLINT            | 48       | -2        | 2.5     | 0.4       | PHILADELPHIA        | 55       | -2        | 1.2     | -1.6      |
| TUCSON              | 74       | 4         | T       | -0.8      | MI GRAND RAPIDS     | 48       | -3        | 2.3     | -0.3      | PITTSBURGH          | 50       | -3        | 1.5     | -1.0      |
| WINSLOW             | 58       | 1         | 0.3     | -0.6      | MI HOUGHTON LAKE    | 45       | -2        | 2.8     | 0.5       | SCRANTON            | 49       | -3        | 1.9     | -0.9      |
| YUMA                | 80       | 4         | T       | -0.3      | MI LANSING          | 47       | -3        | 2.2     | 0.3       | WILLIAMSPORT        | 49       | -3        | 1.5     | -1.7      |
| AR FORT SMITH       | 63       | 1         | 0.9     | -2.3      | MI MARQUETTE        | 41       | -3        | 2.0     | -1.3      | RI PROVIDENCE       | 52       | -2        | 1.5     | -2.2      |
| LITTLE ROCK         | 65       | 2         | 1.0     | -1.8      | MI MUSKOGON         | 49       | -2        | 2.5     | -0.3      | SC CHARLESTON       | 65       | -1        | 4.9     | 2.0       |
| CA BAKERSFIELD      | 70       | 2         | 0.9     | 0.6       | MI SAULT ST. MARIE  | 43       | -2        | 3.3     | 0.4       | COLUMBIA            | 62       | -2        | 4.2     | 1.6       |
| BISHOP              | 59       | 2         | 0.6     | 0.4       | MN ALEXANDRIA       | 45       | -2        | 0.2     | -1.7      | FLORENCE            | 62       | -2        | 3.9     | 1.6       |
| EUREKA              | 58       | 4         | 2.1     | -0.6      | MN DULUTH           | 42       | -3        | 1.1     | -1.1      | GREENVILLE          | 58       | -1        | 6.3     | 2.8       |
| FRESNO              | 69       | 4         | 2.2     | 1.8       | MN INT'L FALLS      | 40       | -2        | 0.1     | -1.6      | SD ABERDEEN         | 46       | -1        | 0.8     | -0.2      |
| LOS ANGELES         | 67       | 1         | 0.5     | 0.2       | MN MINNEAPOLIS      | 47       | -2        | 2.1     | 0.3       | HURON               | 47       | -2        | 0.4     | -1.0      |
| REDDING             | 66       | 0         | 6.3     | 4.2       | ROCHESTER           | 46       | -3        | 1.3     | -1.0      | RAPID CITY          | 49       | 0         | 0.7     | -0.1      |
| SACRAMENTO          | 67       | 3         | 1.3     | 0.4       | ST. CLOUD           | 44       | -3        | 1.1     | -1.0      | SIOUX FALLS         | 49       | -1        | 2.7     | 1.2       |
| SAN DIEGO           | 68       | 1         | 0.2     | -0.1      | MS GREENWOOD        | 65       | 1         | 2.2     | -0.6      | TN BRISTOL          | 54       | -3        | 3.4     | 0.9       |
| SAN FRANCISCO       | 65       | 5         | 1.1     | 0.1       | MS JACKSON          | 65       | 0         | 1.6     | -0.8      | CHATTANOOGA         | 58       | -2        | 4.5     | 1.6       |
| STOCKTON            | --       | --        | 0.5     | -0.1      | MS MERIDIAN         | 65       | 1         | 2.1     | -0.5      | KNOXVILLE           | 57       | -2        | 3.0     | 0.3       |
| CO ALAMOSA          | 45       | 1         | T       | -0.7      | MS TUPELO           | 62       | -0        | 2.7     | -0.3      | MEMPHIS             | 63       | 1         | 4.0     | 1.7       |
| CO SPRINGS          | 52       | 1         | 0.3     | -0.5      | MO CAPE GIRARDEAU   | --       | --        | 3.4     | 1.0       | NASHVILLE           | 59       | -1        | 1.6     | -0.9      |
| DENVER              | 54       | 2         | 0.5     | -0.4      | COLUMBIA            | 57       | -1        | 1.0     | -2.2      | TX ABILENE          | 69       | 3         | 1.2     | -1.1      |
| GRAND JUNCTION      | 58       | 3         | 1.4     | 0.6       | KANSAS CITY         | 56       | -2        | 1.4     | -1.9      | AMARILLO            | 60       | 1         | 0.3     | -1.1      |
| FUEBLO              | 52       | -2        | 0.7     | -0.1      | SAINT LOUIS         | 59       | 1         | 1.2     | -1.1      | AUSTIN              | 73       | 3         | 1.4     | -2.0      |
| CT BRIDGEPORT       | 52       | -3        | 2.4     | -0.9      | SPRINGFIELD         | 59       | 1         | 0.8     | -2.4      | BEAUMONT            | 71       | 1         | 3.0     | -0.8      |
| HARTFORD            | 49       | -4        | 2.0     | -1.5      | MT BILLINGS         | 50       | 1         | 0.4     | -0.7      | BROWNSVILLE         | 76       | 1         | 0.8     | -2.7      |
| DC WASHINGTON       | 56       | -4        | 2.0     | -0.9      | GLASGOW             | 46       | 0         | 0.7     | 0.2       | CORPUS CHRISTI      | 75       | 1         | 0.7     | -2.0      |
| FL APALACHICOLA     | 69       | -1        | 7.6     | 4.4       | GREAT FALLS         | 48       | 0         | 2.6     | 1.8       | DEL RIO             | 74       | 3         | 0.8     | -1.4      |
| DAYTONA BEACH       | 72       | -1        | 5.2     | 0.6       | HAVRE               | 46       | 0         | 1.5     | 0.9       | EL PASO             | 67       | 3         | 0.3     | -0.4      |
| FT. MYERS           | 77       | 0         | 1.6     | -2.3      | HELENA              | 47       | 2         | 1.9     | 1.2       | FORT WORTH          | 69       | 2         | 3.0     | 0.0       |
| JACKSONVILLE        | 69       | -2        | 8.3     | 4.5       | KALISPELL           | 46       | 3         | 0.7     | -0.2      | GALVESTON           | 74       | 2         | 1.2     | -1.5      |
| KEY WEST            | 80       | 0         | 2.0     | -2.9      | MILES CITY          | 50       | 1         | 1.2     | 0.3       | HOUSTON             | 71       | 1         | 1.0     | -2.8      |
| MIAMI               | 80       | 2         | 2.0     | -5.1      | MISSOULA            | 47       | 3         | 0.5     | -0.3      | LAREDO              | 77       | 2         | 0.8     | -1.4      |
| ORLANDO             | 73       | -1        | 5.2     | 2.1       | NE GRAND ISLAND     | 52       | -2        | 3.4     | 2.4       | LUBBOCK             | 64       | 3         | T       | -1.8      |
| TALLAHASSEE         | 66       | -2        | 2.9     | -0.2      | LINCOLN             | 54       | 0         | 1.7     | 0.0       | MIDLAND             | 66       | 2         | T       | -1.4      |
| TAMPA               | 73       | -2        | 2.2     | -0.1      | NORFOLK             | 51       | 0         | 3.1     | 1.8       | SAN ANGELO          | 68       | 2         | 1.3     | -0.7      |
| GA WEST PALM BEACH  | 78       | 0         | 2.8     | -4.9      | NORTH PLATTE        | 50       | 0         | 0.9     | 0.0       | SAN ANTONIO         | 73       | 3         | 0.9     | -1.9      |
| ATHENS              | 61       | -1        | 2.8     | 0.1       | OMAHA               | 54       | -1        | 2.9     | 0.8       | VICTORIA            | 74       | 2         | 1.2     | -2.1      |
| ATLANTA             | 62       | 0         | 2.8     | 0.3       | SCOTTSBLUFF         | 50       | 0         | 1.2     | 0.4       | WACO                | 71       | 2         | 1.5     | -1.5      |
| AUGUSTA             | 62       | -1        | 4.9     | 2.9       | VALENTINE           | 49       | 0         | 0.4     | -0.4      | WICHITA FALLS       | 67       | 2         | 0.2     | -2.4      |
| MACON               | 63       | -3        | 2.9     | 0.9       | NV ELKO             | --       | --        | 0.5     | -0.1      | UT BLANDING         | --       | --        | 1.5     | 0.0       |
| SAVANNAH            | 67       | 0         | 3.6     | 1.3       | ELY                 | 48       | 3         | 1.3     | 0.7       | CEDAR CITY          | 55       | 3         | 1.6     | 0.8       |
| HI HILO             | 78       | 2         | 3.4     | -6.6      | LAS VEGAS           | 71       | 3         | 1.2     | 1.0       | SALT LAKE CITY      | 56       | 3         | 1.0     | -0.1      |
| HONOLULU            | 79       | 0         | 2.6     | 0.7       | RENO                | 55       | 5         | 0.4     | 0.1       | VT BURLINGTON       | 46       | -3        | 3.0     | 0.2       |
| KAHULUI             | 78       | 1         | 1.5     | 0.6       | WINNEMUCCA          | 51       | 2         | 0.5     | -0.1      | VA LYNCHBURG        | 56       | -1        | 1.8     | -1.6      |
| LIHUE               | 78       | 0         | 5.5     | 1.0       | NH CONCORD          | 45       | -3        | 2.4     | -0.7      | NORFOLK             | 60       | -2        | 2.8     | -0.6      |
| ID BOISE            | 54       | 3         | 0.9     | 0.2       | NJ ATLANTIC CITY    | 52       | -4        | 1.3     | -1.8      | RICHMOND            | 56       | -2        | 1.9     | -1.8      |
| LEWISTON            | 54       | 2         | 0.7     | -0.4      | NM ALBUQUERQUE      | 61       | 3         | 0.7     | -0.1      | ROANOKE             | 56       | -2        | 1.9     | -1.6      |
| POCATELLO           | 51       | 3         | 1.0     | 0.1       | CLOVIS              | 61       | 3         | 0.0     | -1.8      | WA COLVILLE         | 47       | 1         | 1.1     | -0.1      |
| IL CAIRO            | --       | --        | 4.7     | 2.2       | ROSWELL             | 64       | 4         | 0.5     | -0.6      | QUILLAYUTE          | 51       | 1         | 11.2    | 0.8       |
| CHICAGO             | 50       | -3        | 1.8     | -0.2      | NY ALBANY           | 47       | -4        | 2.8     | -0.1      | SEATTLE-TACOMA      | 54       | 2         | 2.4     | -1.0      |
| MOLINE              | 52       | -1        | 1.5     | -1.2      | BINGHAMTON          | 44       | -5        | 3.5     | 0.4       | SPOKANE             | 49       | 2         | 0.8     | -0.2      |
| PEORIA              | 53       | -1        | 1.3     | -1.2      | BUFFALO             | 48       | -4        | 2.8     | -0.1      | WALLA WALLA         | 55       | 1         | 1.2     | -0.2      |
| QUINCY              | 55       | -1        | 0.9     | -2.4      | NEW YORK            | 56       | -2        | 1.0     | -2.2      | YAKIMA              | 51       | 2         | 0.7     | 0.2       |
| ROCKFORD            | 49       | -2        | 0.7     | -2.2      | ROCHESTER           | 46       | -5        | 1.8     | -0.8      | WV BECKLEY          | 52       | 1         | 1.5     | -1.2      |
| SPRINGFIELD         | 56       | 0         | 1.5     | -1.0      | SYRACUSE            | 47       | -5        | 2.7     | -0.4      | CHARLESTON          | 54       | -2        | 0.9     | -1.7      |
| IN EVANSVILLE       | 58       | 0         | 1.2     | -1.3      | NC ASHEVILLE        | 54       | -2        | 4.2     | 1.0       | ELKINS              | 48       | -2        | 0.8     | -2.2      |
| FORT WAYNE          | 51       | -2        | 2.4     | -0.1      | CHARLOTTE           | 60       | -1        | 6.2     | 3.5       | HUNTINGTON          | 55       | -2        | 1.1     | -1.2      |
| INDIANAPOLIS        | 53       | -1        | 2.8     | 0.4       | GREENSBORO          | 57       | -2        | 3.7     | 0.5       | PARKERSBURG         | 53       | -3        | 0.6     | -1.8      |
| SOUTH BEND          | 51       | -2        | 1.6     | -1.6      | HATTERAS            | 63       | -2        | 4.0     | -0.8      | WI GREEN BAY        | 47       | -2        | 0.9     | -1.2      |
| IA DES MOINES       | 53       | -1        | 0.5     | -1.6      | NEW BERN            | 61       | -2        | 1.4     | -2.0      | LACROSSE            | 49       | -2        | 0.6     | -1.4      |
| DUBUQUE             | 49       | -2        | 1.1     | -1.8      | RALEIGH             | 58       | -2        | 3.8     | 1.1       | MADISON             | 48       | -1        | 1.1     | -1.2      |
| SIOUX CITY          | 51       | -1        | 3.7     | 2.0       | WILMINGTON          | 62       | -3        | 3.1     | 0.1       | MILWAUKEE           | 50       | -1        | 1.4     | -0.8      |
| WATERLOO            | 51       | 0         | 0.7     | -1.6      | ND BISMARCK         | 44       | -2        | 0.4     | -0.4      | WAUSAU              | 45       | -2        | 2.1     | -0.2      |
| KS CONCORDIA        | 54       | -2        | 4.9     | 3.1       | FARGO               | 45       | -1        | 0.3     | -1.0      | WY CASPER           | 51       | 4         | 0.2     | -0.6      |
| DODGE CITY          | 57       | -1        | 0.7     | -0.5      | GRAND FORKS         | 44       | -1        | 0.1     | -1.0      | CHEYENNE            | 49       | 2         | 0.5     | -0.2      |
| GOODLAND            | 53       | 0         | 0.8     | -0.1      | WILLISTON           | 44       | -2        | 0.5     | -0.2      | LANDER              | 50       | 4         | 0.5     | -0.7      |
| TOPEKA              | 56       | -1        | 1.4     | -1.4      | OH AKRON-CANTON     | 49       | -4        | 2.1     | -0.2      | SHERIDAN            | 49       | 2         | 0.9     | -0.3      |
| WICHITA             | 59       | 0         | 2.8     | 0.3       | CINCINNATI          | 53       | -2        | 1.1     | -1.4      | PR SAN JUAN         | 84       | 3         | 1.7     | -3.8      |
| KY BOWLING GREEN    | 57       | -1        | 2.1     | -0.7      | CLEVELAND           | 50       | -4        | 2.3     | -0.2      |                     |          |           |         |           |
| JACKSON             | 56       | 1         | 1.6     | -0.5      | COLUMBUS            | 52       | -2        | 1.4     | -0.5      |                     |          |           |         |           |
| LEXINGTON           | 56       | -1        | 0.6     | -1.6      | DAYTON              | 52       | -3        | 1.5     | -0.5      |                     |          |           |         |           |
| LOUISVILLE          | 58       | 0         | 1.0     | -1.6      | MANSFIELD           | 49       | -4        | 2.7     | 0.7       |                     |          |           |         |           |
| PADUCAH             | 59       | -0        | 3.5     | 0.9       | TOLEDO              | 50       | -3        | 1.8     | -0.2      |                     |          |           |         |           |

Based on 1951-80 normals.

# October Weather in Historical Perspective

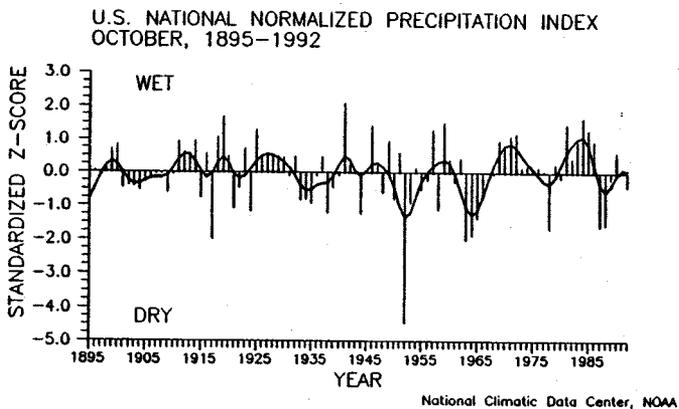
October 1992 joined September as a dry month with near-normal temperatures. On a national basis, precipitation was the 26th lowest since 1895 (fig. 1), with 4 of 9 regions falling within the driest third of the rankings (table 1). The national average temperature of 55.0°F was less than 0.5°F above normal (fig. 2), and the 42nd warmest (57th coolest) on record (table 1). Anomalous warmth west of the Rockies was offset by a cool regime in the Central and Eastern States.

No regions fell within the wettest third of their October distribution. Despite early-month heavy rain in the Southeast, and late-month precipitation in the West and Southwest, these three regions only mustered near-normal rankings of 38th, 35th, and 42nd wettest, respectively. Of the four regions reporting drier than normal conditions, three had concomitant cool

weather (Northeast, East North Central, and Central regions). In contrast, very warm conditions covered the western regions, including the Southwest (7th warmest) and the West (11th warmest).

The primary Hard Red Winter Wheat (HRW) Belt, which extends from southern and western Nebraska southward into northern Texas, experienced its sixth consecutive drier-than-normal October (fig. 3). However, a dry October in the HRW Belt is not necessarily a harbinger of a dry winter. For example, in October 1991, precipitation was 75 percent of normal, but October 1991 - February 1992 precipitation was about 140 percent of normal. In October 1992, HRW Belt precipitation was about 70 percent of normal, with especially dry conditions in western Oklahoma and northern Texas.

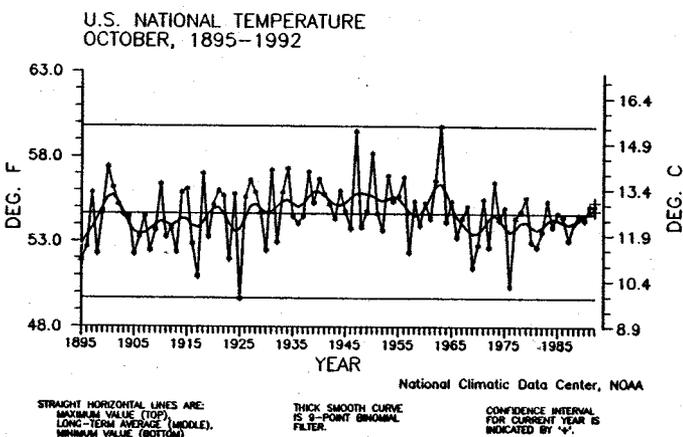
**Figure 1**



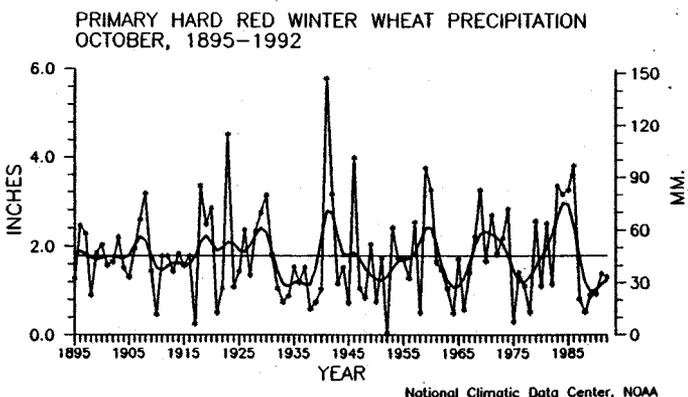
**TABLE 1. TEMPERATURE AND PRECIPITATION RANKINGS FOR OCTOBER 1992, BASED ON THE PERIOD 1895-1992. 1 = DRIEST/COLDEST, 98 = WETTEST/HOTTEST.**

| REGION             | PRECIPITATION | TEMPERATURE |
|--------------------|---------------|-------------|
| NORTHEAST          | 31            | 10          |
| EAST NORTH CENTRAL | 30            | 32          |
| CENTRAL            | 20            | 29          |
| SOUTHEAST          | 61            | 15          |
| WEST NORTH CENTRAL | 34            | 64          |
| SOUTH              | 19            | 63          |
| SOUTHWEST          | 57            | 92          |
| NORTHWEST          | 38            | 75          |
| WEST               | 64            | 88          |
| NATIONAL           | 26            | 57          |

**Figure 2**



**Figure 3**



## HEATING DEGREE DAYS (Base 65° F) October 1992

| STATES<br>AND<br>STATIONS | TOTAL | DEP. FROM<br>NORMAL | STATES<br>AND<br>STATIONS | TOTAL | DEP. FROM<br>NORMAL | STATES<br>AND<br>STATIONS | TOTAL | DEP. FROM<br>NORMAL |
|---------------------------|-------|---------------------|---------------------------|-------|---------------------|---------------------------|-------|---------------------|
| AL BIRMINGHAM             | 116   | -21                 | SHREVEPORT                | 33    | -43                 | DAYTON                    | 392   | 50                  |
| MOBILE                    | 18    | -32                 | ME CARIBOU                | 732   | 53                  | TOLEDO                    | 473   | 54                  |
| MONTGOMERY                | 58    | -28                 | PORTLAND                  | 543   | 28                  | YOUNGSTOWN                | 523   | 100                 |
| AK ANCHORAGE              | 1039  | 97                  | MD BALTIMORE              | 328   | 67                  | OK OKLAHOMA CITY          | 115   | -30                 |
| BARROW                    | 1619  | 44                  | SALISBURY                 | 334   | 86                  | TULSA                     | 151   | 5                   |
| FAIRBANKS                 | 1463  | 223                 | MA BOSTON                 | 386   | 57                  | OR ASTORIA                | 379   | 4                   |
| JUNEAU                    | 755   | 36                  | CHATHAM                   | 400   | 50                  | BURNS                     | 538   | 8                   |
| KODIAK                    | 763   | 25                  | MI ALPENA                 | 639   | 84                  | MEDFORD                   | 233   | -102                |
| NOME                      | 1272  | 125                 | DETROIT                   | 469   | 55                  | PENDLETON                 | 333   | -55                 |
| AZ FLAGSTAFF              | 444   | -108                | FLINT                     | 516   | 61                  | PORTLAND                  | 274   | -58                 |
| PHOENIX                   | 0     | -13                 | GRAND RAPIDS              | 512   | 69                  | SALEM                     | 303   | -69                 |
| PRESCOTT                  | 160   | -154                | HOUGHTON LAKE             | 619   | 58                  | PA ALLENTOWN              | 482   | 118                 |
| TUCSON                    | 0     | -29                 | IANSING                   | 543   | 91                  | ERIE                      | 423   | 3                   |
| WINSLOW                   | 220   | -50                 | MARQUETTE                 | 732   | 90                  | HARRISBURG                | 419   | 99                  |
| YUMA                      | 0     | -8                  | MUSKEGON                  | 493   | 53                  | PHILADELPHIA              | 310   | 37                  |
| AR FORT SMITH             | 96    | -47                 | SAULT ST MARIE            | 661   | 50                  | PITTSBURGH                | 457   | 64                  |
| LITTLE ROCK               | 71    | -61                 | MN ALEXANDRIA             | 621   | 51                  | SCRANTON                  | 488   | 71                  |
| CA BAKERSFIELD            | 7     | -43                 | DULUTH                    | 717   | 72                  | RI PROVIDENCE             | 404   | 38                  |
| EUREKA                    | 209   | -123                | INT'L FALLS               | 756   | 68                  | SC CHARLESTON             | 70    | -6                  |
| FRESNO                    | 18    | -72                 | MINNEAPOLIS               | 542   | 54                  | COLUMBIA                  | 133   | 10                  |
| LOS ANGELES               | 2     | -53                 | ROCHESTER                 | 587   | 75                  | FLORENCE                  | 134   | 28                  |
| REDDING                   | 57    | -33                 | SAINT CLOUD               | 648   | 84                  | GREENVILLE                | 226   | 64                  |
| SACRAMENTO                | 22    | -58                 | MS GREENWOOD              | 52    | -77                 | SD ABERDEEN               | 582   | 46                  |
| SAN DIEGO                 | 0     | -32                 | JACKSON                   | 45    | -53                 | HURON                     | 544   | 39                  |
| SAN FRANCISCO             | 40    | -108                | MERIDIAN                  | 50    | -68                 | RAPID CITY                | 493   | 11                  |
| STOCKTON                  | 19    | -57                 | MO CAPE GIRARDEAU         | 234   | 19                  | STIOUX FALLS              | 500   | 11                  |
| CO DENVER                 | 346   | -68                 | COLUMBIA                  | 264   | -11                 | TN CHATTANOOGA            | 202   | 12                  |
| GRAND JCT.                | 222   | -103                | KANSAS CITY               | 271   | 13                  | KNOXVILLE                 | 229   | 28                  |
| PUEBLO                    | 390   | 44                  | SAINT LOUIS               | 204   | -54                 | MEMPHIS                   | 89    | -48                 |
| CT BRIDGEPORT             | 393   | 108                 | SPRINGFIELD               | 203   | -39                 | NASHVILLE                 | 181   | -12                 |
| HARTFORD                  | 486   | 95                  | MT BILLINGS               | 475   | -12                 | TX ABILENE                | 20    | -70                 |
| DE WILMINGTON             | 363   | 81                  | GLASGOW                   | 594   | 11                  | AMARILLO                  | 171   | -44                 |
| DC WASHINGTON             | 282   | 85                  | GREAT FALLS               | 538   | 2                   | AUSTIN                    | 0     | -37                 |
| FL APALACHICOLA           | 8     | -16                 | HAYRE                     | 581   | -11                 | BEAUMONT                  | 2     | -33                 |
| DAYTONA BEACH             | 0     | 0                   | HELENA                    | 564   | -53                 | BROWNSVILLE               | 0     | 0                   |
| FORT MYERS                | 0     | 0                   | KALISPELL                 | 590   | -108                | CORPUS CHRISTI            | 0     | -11                 |
| JACKSONVILLE              | 19    | -6                  | MILES CITY                | 482   | -33                 | DEL RIO                   | 0     | -27                 |
| KEY WEST                  | 0     | 0                   | MISSOULA                  | 543   | -105                | EL PASO                   | 21    | -75                 |
| MIAMI                     | 0     | 0                   | NE GRAND ISLAND           | 414   | 37                  | FORT WORTH                | 14    | -44                 |
| ORLANDO                   | 0     | 0                   | LINCOLN                   | 355   | 2                   | GALVESTON                 | 0     | -11                 |
| TALLAHASSEE               | 39    | 2                   | NORFOLK                   | 426   | 9                   | HOUSTON                   | 1     | -35                 |
| TAMPA                     | 0     | 0                   | NORTH PLATTE              | 466   | 3                   | LUBBOCK                   | 90    | -67                 |
| W. PALM BEACH             | 0     | 0                   | OMAHA                     | 359   | 17                  | MIDLAND-ODESSA            | 32    | -60                 |
| GA ATLANTA                | 110   | -20                 | SCOTTSBLUFF               | 465   | 6                   | SAN ANGELO                | 27    | -48                 |
| AUGUSTA                   | 103   | -4                  | VALENTINE                 | 491   | 5                   | SAN ANTONIO               | 0     | -41                 |
| MACON                     | 88    | 2                   | NV ELY                    | 507   | -82                 | VICTORIA                  | 0     | -20                 |
| SAVANNAH                  | 45    | -13                 | LAS VEGAS                 | 16    | -47                 | WACO                      | 7     | -39                 |
| ID BOISE                  | 340   | -66                 | RENO                      | 293   | -163                | WICHITA FALLS             | 47    | -58                 |
| LEWISTON                  | 338   | -71                 | WINNEMUCCA                | 438   | -67                 | UT BLANDING               | 269   | -140                |
| POCATELLO                 | 417   | -107                | NH CONCORD                | 617   | 96                  | CEDAR CITY                | 299   | -104                |
| IL CHICAGO                | 449   | 81                  | NJ ATLANTIC CITY          | 407   | 109                 | SALT LAKE CITY            | 285   | -92                 |
| MOLINE                    | 405   | 35                  | NM ALBUQUERQUE            | 128   | -114                | VT BURLINGTON             | 597   | 67                  |
| PEORIA                    | 367   | 6                   | CLOVIS                    | 135   | -90                 | VA LYNCHBURG              | 266   | 8                   |
| QUINCY                    | 325   | 11                  | ROSWELL                   | 64    | -79                 | NORFOLK                   | 179   | 33                  |
| ROCKFORD                  | 476   | 64                  | NY ALBANY                 | 561   | 111                 | RICHMONT                  | 275   | 54                  |
| SPRINGFIELD               | 296   | -11                 | BINGHAMTON                | 634   | 141                 | ROANOKE                   | 290   | 23                  |
| IN EVANSVILLE             | 236   | -23                 | BUFFALO                   | 525   | 102                 | WA COLVILLE               | 559   | -24                 |
| FORT WAYNE                | 430   | 46                  | NEW YORK                  | 293   | 47                  | QUILLAYUTE                | 424   | -29                 |
| INDIANAPOLIS              | 353   | 23                  | ROCHESTER                 | 571   | 159                 | SEATTLE-TACOMA            | 323   | -65                 |
| SOUTH BEND                | 417   | 41                  | SYRACUSE                  | 562   | 141                 | SPOKANE                   | 481   | -58                 |
| IA DES MOINES             | 363   | 6                   | NC ASHEVILLE              | 324   | 38                  | YAKIMA                    | 427   | -41                 |
| DUBUQUE                   | 495   | 49                  | CAPE HATTERAS             | 91    | 15                  | WV BECKLEY                | 390   | -8                  |
| STIOUX CITY               | 437   | 39                  | CHARLOTTE                 | 162   | -4                  | CHARLESTON                | 335   | 34                  |
| WATERLOO                  | 441   | -16                 | GREENSBORO                | 258   | 37                  | HUNTINGTON                | 312   | 19                  |
| KS CONCORDIA              | 338   | 61                  | NEW BERN                  | 139   | 21                  | PARKERSBURG               | 371   | 71                  |
| DODGE CITY                | 289   | 38                  | RALEIGH-DURHAM            | 224   | 37                  | WI GREEN BAY              | 560   | 45                  |
| GOODLAND                  | 375   | -19                 | WILMINGTON                | 126   | 32                  | LA CROSSE                 | 498   | 50                  |
| TOPEKA                    | 278   | 2                   | ND BISMARCK               | 645   | 59                  | MADISON                   | 514   | 24                  |
| WICHITA                   | 209   | -10                 | FARGO                     | 613   | 33                  | MILWAUKEE                 | 472   | 28                  |
| KY BOWLING GREEN          | 250   | 10                  | GRAND FORKS               | 637   | 14                  | WAUSAU                    | 603   | 54                  |
| LEXINGTON                 | 288   | 8                   | WILLISTON                 | 644   | 27                  | WY CASPER                 | 443   | -109                |
| LOUISVILLE                | 219   | -31                 | OH AKRON-CANTON           | 497   | 103                 | CHEYENNE                  | 484   | -59                 |
| LA BATON ROUGE            | 6     | -41                 | CLEVELAND                 | 462   | 91                  | LANDER                    | 457   | -107                |
| LAKE CHARLES              | 2     | -43                 | COLUMBUS                  | 403   | 48                  | SHERIDAN                  | 510   | -48                 |
| NEW ORLEANS               | 2     | -29                 | CINCINNATI                | 358   | 42                  |                           |       |                     |

Based on 1951-80 normals.

## National Agricultural Summary

November 2 - 8, 1992

**HIGHLIGHTS:** The week was very moist in the eastern half and northwestern parts of the Nation. Temperatures were below normal in all areas of the country except in the Southeast and along the Pacific Coast. Snow caused harvest delays in the upper Mississippi Valley the first part of the week. The rest of the week saw precipitation fall and low clouds spread across the eastern half of the Nation, which further hindered harvest. Cold temperatures at mid-week saw frost spread to portions of Texas, Louisiana, Alabama, and Mississippi. Welcomed moisture early in the week came to the Northwest.

**SMALL GRAINS:** Winter wheat seedings reached 92 percent (%) complete in the 19 major producing States, compared with 93% last year and 94% average. Winter wheat emergence was at 79%, compared to 78% last year and 85% average. The cool, rainy weather caused crop condition to decline slightly from the previous week. Russian wheat aphids were reported in the Northwest. Seeding of oats, barley, and rye advanced along the south Atlantic coast but was hampered by the wet weather.

**CORN:** Corn harvest advanced but was delayed in the major production areas by the wet weather. Little progress was made in South Dakota and Minnesota due to the snow. Harvest was a month behind schedule in Nebraska, and 2 to 3 weeks late in Illinois. Wet conditions and high grain moisture content continued to slow harvest in Iowa. Harvest was 50% complete in the 17 major producing States, compared with 95% last year and 91% average.

**SOYBEANS:** Soybean harvest advanced slowly, with wet conditions hampering harvest especially in the middle Mississippi Valley, Indiana, and North Carolina. Harvest progress was rated 88% completed in the 19 major States, compared to 90% last year and 89% average.

**COTTON:** The harvest continued with this year's pace very close to last year's progress and the average. Sixty-two percent of the crop was harvested, compared to 63% last year and 62% average. Rain delayed the harvest in the Blacklands of Texas, but High Plains harvest progressed on schedule. The freeze in Texas should have killed most plants and enhanced future harvest activities. Some immature bolls in the High Plains suffered adverse affects from the freeze.

**SORGHUM:** Sorghum harvest advanced despite the cool, wet conditions. Harvest was 68% completed, compared to 94% last year and 88% average. In Kansas, progress was delayed by the moisture content of the grain and the late maturity of the crop. High grain moisture content and poor weather conditions have combined to push Nebraska's harvest a month behind schedule. The frost in Texas lowered grain moisture content and helped harvest there.

**OTHER FIELD CROPS:** Peanut harvest continued in Texas and was ahead of average in Oklahoma. Sugar beet harvest was underway in California. Some bird damage was evident in new

crop fields. Sugarcane planting advanced in Florida. Harvest continued in Louisiana and Florida. Sugar recovery dropped due to rain in Louisiana. Sunflower harvest was 83% completed, compared to 100% average. Rain and snow slowed harvest. Fall potato harvest was virtually completed in Washington and California. Christmas tree harvest advanced in Washington.

**FRUIT AND NUTS:** Grapefruit harvest advanced in west and central Arizona, the California desert, and the east coast of Florida. Naval orange harvest gained momentum in California and Arizona, while early orange harvest increased in Florida. Tangerine harvest was active in Florida and California. Lemon harvest continued in Arizona. Avocado, date, and olive harvests advanced in California. Florida citrus trees were in near excellent condition. Pecan harvest continued in Texas, Arkansas, Louisiana, and Mississippi. Cool temperatures aided the harvest in Texas. Some fungal problems were reported in the Cross Timbers region of Texas. Catkins were setting on hazelnut trees, and walnut harvest was winding down in Oregon. Pistachio harvest was active in eastern Arizona.

**VEGETABLES:** Growing conditions turned dry in the major vegetable-producing regions of Florida. Some vegetable acreage was hurt by frost in Texas. Cantaloupe and honeydew harvest was active in central Arizona, while some watermelons were harvested in California. Harvesting activity decreased in northern Florida, but advanced in the central and coastal areas. The Texas harvest was active with peppers from the Rio Grande Valley, cabbage from the High Plains and sweetpotatoes from the east. Harvest was expected to begin within 3 weeks in the Palo Verde Valley area of California. Broccoli and celery harvests remained active in the Salinas-Watsonville and the Santa Maria areas of California. Lettuce harvest continued in western Arizona, the Central Valley of California, and New Mexico. Tomato harvest was ending in the San Joaquin Valley but increasing in Florida. Carrot harvest continued in the Northwest.

**PASTURES AND LIVESTOCK:** Pastures in the West continued to improve, but more moisture was needed to allow growth to continue. Pastures across the Nation continued to remain in generally fair to good condition, except in California, where pastures were generally poor to fair. Livestock remained in good condition nationwide. Supplemental feeding was active in the western areas, where conditions warranted. Feed supplies were generally adequate.

### Crop Progress

for the Week Ending November 8, 1992

#### CORN (Percent Harvested)

|           | Current | Last Wk | 1991 | Avg. |
|-----------|---------|---------|------|------|
| CO        | 63      | 52      | 78   | 72   |
| GA        | 98      | 98      | 100  | 100  |
| IL        | 65      | 61      | 100  | 96   |
| IN        | 45      | 42      | 99   | 83   |
| IA        | 45      | 37      | 92   | 97   |
| KS        | 85      | 80      | 99   | 96   |
| KY        | 87      | 82      | 95   | 89   |
| MI        | 15      | 10      | 85   | 70   |
| MN        | 39      | 36      | 97   | 97   |
| MO        | 70      | 67      | 95   | 96   |
| NE        | 46      | 39      | 99   | 95   |
| NC        | 95      | 93      | 95   | 94   |
| OH        | 30      | 25      | 98   | 70   |
| PA        | 38      | 19      | 74   | 55   |
| SD        | 31      | 29      | 100  | 96   |
| TX        | 100     | 100     | 100  | 100  |
| WI        | 24      | 20      | 82   | 80   |
| 17 States | 50      | 44      | 95   | 91   |

These 17 States produced 94% of the 1991 corn crop.

#### GRAIN SORGHUM (Percent Harvested)

|                      | Current | Last Wk | 1991 | Avg. |
|----------------------|---------|---------|------|------|
| AR                   | 100     | 99      | 98   | 99   |
| CO                   | 37      | 31      | 84   | 61   |
| IL                   | 84      | 75      | 100  | 92   |
| KS                   | 45      | 40      | 97   | 85   |
| LA                   | 100     | 100     | 99   | 99   |
| MS                   | 100     | 100     | 100  | 100  |
| MO                   | 81      | 79      | 90   | 93   |
| NE                   | 59      | 44      | 100  | 98   |
| NM                   | 64      | 48      | 19   | NA   |
| OK                   | 64      | 43      | 70   | 58   |
| SD                   | 76      | 63      | 100  | 96   |
| TX                   | 90      | 85      | 90   | 87   |
| 12 States            | 68      | 61      | 93   | NA   |
| Excl. States with NA | 68      | 61      | 94   | 88   |

These 12 States produced 98% of the 1991 grain sorghum crop.

#### COTTON (Percent Harvested)

|    | Current | Last Wk | 1991 | Avg. |
|----|---------|---------|------|------|
| AL | 66      | 58      | 93   | 90   |
| AZ | 86      | 75      | 70   | 67   |
| AR | 81      | 72      | 90   | 90   |
| CA | 95      | 80      | 75   | 74   |
| GA | 54      | 41      | 79   | 79   |
| LA | 97      | 96      | 93   | 96   |
| MS | 89      | 81      | 91   | 91   |
| MO | 74      | 70      | 93   | 93   |
| NM | 31      | 24      | 34   | 28   |
| NC | 34      | 32      | 74   | 69   |
| OK | 28      | 23      | 19   | 23   |
| SC | 46      | 36      | 74   | 78   |
| TN | 70      | 64      | 86   | 87   |
| TX | 41      | 36      | 40   | 37   |

These 14 States produced 99% of the 1991 cotton crop.

#### WINTER WHEAT (Percent Planted)

|           | Current | Last Wk | 1991 | Avg. |
|-----------|---------|---------|------|------|
| AR        | 74      | 63      | 65   | 70   |
| CA        | 15      | 10      | 15   | 28   |
| CO        | 100     | 100     | 100  | 100  |
| GA        | 15      | 12      | 18   | 20   |
| ID        | 99      | 98      | 98   | 100  |
| IL        | 95      | 93      | 98   | 98   |
| IN        | 96      | 92      | 100  | 94   |
| KS        | 98      | 98      | 97   | 98   |
| MI        | 90      | 90      | 100  | 98   |
| MO        | 81      | 74      | 86   | 90   |
| MT        | 100     | 100     | 100  | 100  |
| NE        | 100     | 100     | 100  | 100  |
| NC        | 45      | 36      | 51   | 48   |
| OH        | 96      | 90      | 100  | 100  |
| OK        | 93      | 91      | 94   | 96   |
| OR        | 99      | 89      | 89   | 88   |
| SD        | 100     | 100     | 100  | 100  |
| TX        | 87      | 83      | 90   | 92   |
| WA        | 100     | 100     | 91   | 97   |
| 19 States | 92      | 90      | 93   | 94   |

These 19 States produced 92% of the 1991 winter wheat crop.

#### WINTER WHEAT (Percent Emerged)

|           | Current | Last Wk | 1991 | Avg. |
|-----------|---------|---------|------|------|
| AR        | 60      | 35      | 59   | 55   |
| CA        | 5       | 3       | 1    | 6    |
| CO        | 97      | 95      | 96   | 96   |
| GA        | 14      | 8       | 13   | 14   |
| ID        | 90      | 86      | 73   | 85   |
| IL        | 89      | 76      | 98   | 87   |
| IN        | 80      | 72      | 99   | 79   |
| KS        | 90      | 85      | 75   | 95   |
| MI        | 75      | 70      | 90   | 90   |
| MO        | 66      | 55      | 69   | 74   |
| MT        | 90      | 87      | 85   | 93   |
| NE        | 100     | 100     | 100  | 100  |
| NC        | 32      | 21      | 33   | 34   |
| OH        | 80      | 65      | 100  | 81   |
| OK        | 64      | 62      | 73   | 83   |
| OR        | 86      | 73      | 51   | 61   |
| SD        | 100     | 96      | 100  | 100  |
| TX        | 64      | 59      | 79   | 81   |
| WA        | 97      | 94      | 84   | 89   |
| 19 States | 79      | 74      | 78   | 85   |

These 19 States produced 92% of the 1991 winter wheat crop.

#### SOYBEANS (Percent Harvested)

|           | Current | Last Wk | 1991 | Avg. |
|-----------|---------|---------|------|------|
| AL        | 58      | 43      | 68   | 67   |
| AR        | 78      | 70      | 64   | 69   |
| GA        | 42      | 26      | 65   | 60   |
| IL        | 96      | 95      | 100  | 99   |
| IN        | 93      | 92      | 100  | 94   |
| IA        | 100     | 99      | 100  | 100  |
| KS        | 90      | 85      | 97   | 85   |
| KY        | 69      | 61      | 80   | 75   |
| LA        | 86      | 76      | 80   | 88   |
| MI        | 70      | 55      | 95   | 85   |
| MN        | 98      | 98      | 99   | 99   |
| MS        | 75      | 66      | 71   | 74   |
| MO        | 88      | 86      | 86   | 91   |
| NE        | 100     | 98      | 100  | 100  |
| NC        | 21      | 20      | 36   | 31   |
| OH        | 95      | 90      | 100  | 92   |
| SC        | 18      | 11      | 32   | 27   |
| SD        | 99      | 94      | 100  | 100  |
| TN        | 58      | 44      | 62   | 72   |
| 19 States | 88      | 84      | 90   | 89   |

These 19 States produced 95% of the 1991 soybean crop.

### Crop Condition (Percent)

for the Week Ending Nov. 8, 1992

#### WINTER WHEAT

| State     | VP | P  | F  | G  | EX |
|-----------|----|----|----|----|----|
| AR        | 0  | 0  | 19 | 75 | 6  |
| CA        | 0  | 0  | 10 | 85 | 5  |
| CO        | 3  | 4  | 17 | 61 | 15 |
| GA        | 0  | 0  | 16 | 84 | 0  |
| ID        | 0  | 5  | 13 | 72 | 10 |
| IL        | 0  | 0  | 10 | 72 | 18 |
| IN        | 0  | 3  | 26 | 66 | 5  |
| KS        | 0  | 4  | 19 | 36 | 41 |
| MI        | 1  | 9  | 25 | 50 | 15 |
| MO        | 0  | 2  | 43 | 55 | 0  |
| MT        | 0  | 9  | 30 | 52 | 9  |
| NE        | 0  | 0  | 28 | 57 | 15 |
| NC        | 0  | 1  | 18 | 77 | 4  |
| OH        | 0  | 3  | 21 | 61 | 15 |
| OK        | 3  | 11 | 67 | 19 | 0  |
| OR        | 0  | 0  | 8  | 76 | 16 |
| SD        | 1  | 6  | 35 | 54 | 4  |
| TX        | 5  | 33 | 44 | 17 | 1  |
| WA        | 0  | 0  | 63 | 37 | 0  |
| 19 State  | 1  | 8  | 34 | 42 | 15 |
| Prev Week | 2  | 8  | 36 | 40 | 14 |
| Prev Year | 4  | 15 | 38 | 39 | 4  |

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

## 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 1.05 to 4.25 in. north; 1.44 to 3.95 in. central; 2.31 to 4.55 in. south. Temperatures 3 to 10° below normal north; 3 to 9° below normal central; 1 to 7° below normal south; Lows 25 to 33° north, central; 32 to 37° south. Highs 73 to 78° north; 75 to 83° central; 78 to 83° south.

Days suitable for fieldwork 2.7. Soil moisture 35% adequate, 65% surplus. Sorghum 94% harvested, 94% 1991, 94% avg. Winter Wheat 61% seeded, 47% 1991, 54% avg. Pasture 7% poor, 28% fair, 57% good, 8% excellent. Livestock 13% fair, 72% good, 15% excellent. Primary activities: Harvesting vegetables, hay, sorghum, cotton; plowing fields for small grain seeding; planting small grains, marketing cattle; repairing machinery; general care of livestock, poultry, catfish.

**ARIZONA:** Sunny, cooler, windy 2nd, 3rd. Cloudy 4th. Temperatures normal to 7° below normal. Extremes 17°; 75° higher elevations, 30°; 89° deserts.

Cotton harvested 86%, 70%, 67% avg.; stalk shredding, plow down moderate to active statewide. Alfalfa good; harvest, light. Small grains field preparation active. Lemons, grapefruits harvested, west, central. Cantaloupes, honeydews, green onions, sweet corn, rapini, cabbage, mixed greens, navel oranges harvested, central. Apples, pistachios, chili peppers, east. Squash harvested, central, east. lettuce harvested west, central, east.

**ARKANSAS:** Temperatures below normal, scattered showers, first of week, heaviest southeast. Extremes 22°; 79°. Rainfall 0.02 to 1.95 in.

Days suitable for fieldwork 4. Soil moisture supplies 13% short, 70% adequate, 17% surplus. Main farming: Wheat seedbed preparation, harvesting soybeans, cotton, milo, rice, hay, planting wheat, oats, fall forage planting, marketing calves, working cattle. Cotton harvest continued. Producers scrapping some fields. Cotton gins running full time. As of November 5th, cotton classing office reported 853,962 bales of Arkansas cotton had been classed. Pecan harvest began in southwest. Early yields poor. Livestock good. Pastures mostly fair. Pastures supplying average forage for herds.

**CALIFORNIA:** High pressure dominated State. Temperatures above normal, conditions remained dry few light showers on the northwest coast near beginning week.

Field activities slowed wet soils. Rice harvested isolated areas. Rain delayed cotton harvest two days. Harvest gathered momentum weekend. Shredding, plow down for pink boll worm control followed harvest. Grain corn, silage corn, dry beans, grain sorghum, sugarbeets harvested. Windrowed dry beans, alfalfa rain damaged some areas. New crop sugarbeets sprayed worm control; bird damage evident some fields. Ground preparation fall seeded small grains, forages active as soils dried. Limited seeding wheat, barley, oats. Alfalfa hay harvest normal. Cultural practices vineyards, orchards. Apples, persimmons, kiwifruit, pomegranates harvested, packed. Olive harvest progressed. Desert area date, lemon, grapefruit, tangerine, avocado harvest continued. Navel orange harvest picked up speed. Broccoli, celery harvests Salinas Watsonville active, good quality. Cauliflower moderately active in both Salinas, Santa Maria. Quality variable. Santa Maria broccoli, celery remained moderately active, lettuce fairly light. Lettuce harvest finished Salinas-Watsonville. Leaf, head lettuce moderately

active central valley, quality variable. Palo Verde Valley lettuce, broccoli, cauliflower, cabbage progressed, harvest expected three weeks. Fresh market tomato harvest winding down San Joaquin Valley. Few watermelons still harvested. Sweetpotato harvest full swing Atwater Livingston. Processing spinach harvest progressed normally, new fields planted. Fall potato harvest virtually complete. Harvest continued Anza, Hemet valleys. Other vegetables harvested: sweet corn, peppers, green onions, cucumbers, eggplant, squash. Rains germinated grasses. More needed to sustain growth, development. Conditions continued fair to very poor. Cattle movement to winter pasture. Supplemental feeding widespread. Sheep grazed alfalfa, other crop residue. Livestock looked good.

**COLORADO:** Winter storm on 2nd dropped up to 2 to 3 feet of snow at some mountain locations. Most lower elevation stations reported an inch or more of rain mixed with snow. Temperatures mostly 5 to 9° below normal.

Days suitable for fieldwork 3.7. Soil moisture 8% very short, 51% short, 39% adequate, 2% surplus. Sorghum harvested 37%, 84% 1991, 61% avg. Corn harvested 63%, 78% 1991, 72% avg. Winter wheat emerged 97%, 96% 1991, 96% avg. Livestock mostly good. Pasture, range feed good.

**FLORIDA:** Temperatures 3 to 6° below normal Panhandle, mostly 2 to 4° above normal elsewhere, except 5 to 7° above normal lower southeast coast. Highs; lower 80s Panhandle, around 90° central, south. Lows; middle 30s Panhandle, lower 50s central, middle 60s lower southeast coast. Rain totals; north, generally 1.00 to 3.00 in., over 4.00 in. isolated areas. Rain northeast, Peninsula, under 0.25 in.; southeast coast 1.00 to 3.00 in. was typical.

Soil moisture short to adequate. Cotton, soybean harvest delayed by rain. Sugarcane harvest active. Sugarcane planting active. Peanut harvest complete. Farmers making preparations for planting winter wheat for grain. Citrus trees near excellent condition, light rain, irrigation continues. Good color on early fruit. Loss from droppage varies. Early orange harvest increasing. Grapefruit movement most active on east coast. Early tangerine harvest active for Thanksgiving trade. Tangelo harvest increasing. Caretakers cutting cover crops, placing heaters coldest locations. Growing conditions dry, major vegetable growing areas. Harvest decreasing seasonally north, increasing central, coastal areas. Volume leaders; tomatoes, cucumbers, peppers, squash, radishes. Also available; snap beans, sweet corn, eggplant, escarole, cherry tomatoes. State's pastures fair to excellent. Pasture ratings, 30% fair, 60% good, 10% excellent. Moisture levels short to adequate. State's cattle herds mostly good.

**GEORGIA:** Changeable weather. Temperatures above normal early; well below normal late. Temperatures 1 to 3° below normal north, couple degrees above southeast. Highs near 70° mountains to mid 80s extreme south. Coldest 1st morning, minimums from low to mid 20s mountains, 30s elsewhere, except low to mid 40s near coast. Fall's first significant freeze north, colder central locations. Rain much of State 1.00 to 3.00 in. at midweek. Main exception south-eastern areas rain 0.50 in. or less.

Days suitable for fieldwork 3.5. Soil moisture 10% short, 42% adequate, 48% surplus. Cotton 12% fair, 77% good, 11% excellent; 96% bolls open, 99% 1991, 99% avg.; rain 3rd to 5th slowed harvest. Sorghum 9% fair, 91% good; 80% harvested for grain, 92% 1991,

92% avg. Peanuts 100% threshed, 100% 1991, 99% avg. Soybeans 15% fair, 84% good, 1% excellent. Wheat 16% fair, 84% good; planting expected to be active after fields dry. Rye 72% planted, 70% 1991, 72% avg. Other small grains 16% fair, 84% good; 60% planted, 46% 1991, 48% avg. Onions 14% planted, NA 1991, NA avg. Vegetables 51% fair, 49% good; disease problems moderate to heavy some areas. Apples 95% harvested, 97% 1991, 98% avg. Pecans 9% very poor, 33% poor, 49% fair, 9% good; 37% harvested, 45% 1991, 35% avg. Pasture 4% poor, 27% fair, 68% good, 1% excellent. Cattle 11% fair, 87% good, 2% excellent. Hogs 16% fair, 81% good, 3% excellent.

**HAWAII:** A cold front, cool air mass brought low temperatures to the State. A record of 77° was set in Honolulu as the lowest high temperature on 3rd, breaking the previous record set in 1982. Next day temperatures dipped to 61° in Honolulu and Lihue, lower than the old records established in 1955, 1964, respectively. Days sunny, cooler than normal. Rainfall 0.02 to 3.30 in.

Days suitable for fieldwork 7.0. Cooler weather, overcast skies slowed crop progress for some but favored others. Orchards, pastures benefited from heavy rain early in the week. Irrigation remained active to ensure adequate development. Banana, papaya shipments were active with shipments continuing at high levels. Sweet corn production light to moderate.

**IDAHO:** Temperatures 5° below normal to 1° above normal throughout State. Precipitation fell throughout State.

Soil moisture varied across State. Adequate amount north, southwest; short amount southeast; very short amount south central. Activities: Bedding onions, harvesting of sugarbeets, corn. Winter wheat planted nearly completed; mostly good. Hay, roughage supplies adequate. Livestock activities: marketing cattle, weaning, shipping calves, moving cattle to fall pastures. Livestock good.

**ILLINOIS:** Temperatures 5 to 10° below normal. Highs in the low 40s to low 50s. Lows, low to mid 30s. Precipitation generally below normal with most areas getting from 0.20 in. to 0.50 in.

Days suitable for fieldwork 2.25. Soil moisture 8% short, 72% adequate, 20% surplus. Crop harvesting generally on schedule except for corn which is 2 to 3 weeks behind. During the growing season in the northern districts, corn harvest has fallen behind the average due to the lack of dry weather, heating units. Pasture 87% of normal.

**INDIANA:** Temperatures 4 to 6° below normal. Highs low 50s. Lows, low to upper 30s. Precipitation 0.25 to 1.40 in. far northwest.

Days suitable for fieldwork 2.4. Topsoil 5% short, 40% adequate, 55% surplus. Subsoil 10% short, 64% adequate, 26% surplus. Pasture 84%, 88% last week. Tobacco processed 20%. Corn moisture content 24%, last week 24%. Soybean moisture content 14%, last week 13%. Hay supplies 10% short, 84% adequate, 6% surplus. Wet soils slowed harvesting activities.

**IOWA:** Temperatures 7 to 11° below normal. Extremes 19°; 59°. Precipitation persistent, light, 0.03 to 0.37 in.; average 0.13 in.

Days suitable for fieldwork 2.3. Topsoil 63% adequate, 37% surplus. Subsoil 2% short, 86% adequate, 12% surplus. Fall tillage completed for next year's row crop acreage 16%, 32% 1991, 47% avg. Row crop acreage fall fertilized 14%, 23% 1991, 36% avg. Corn harvest slow due to wet condition, high moisture content. Corn average moisture content 23% in field, 22% at harvest. Pasture 5% poor, 27% fair, 61% good, 7% excellent. Livestock mostly good, some flu, pneumonia in hogs.

**KANSAS:** Temperatures 6 to 10° below normal over State. Precipitation received all districts, 0.03 to 0.91 in. Weather cold, damp most of week.

Days suitable for fieldwork 2.5. Surface moisture 17% short, 61% adequate, 22% surplus. Subsurface moisture 14% short, 83% adequate, 3% surplus. Harvest progress behind normal for corn, sorghum because of late maturity, unfavorable weather. Wheat planting mostly complete. Rainy weather slowed fall harvest the past week. Pastures for State are still good. Stockmen moving cattle off pastures. Cattle grazing corn, sorghum stubble, wheat pasture. Supplemental feeding becoming common.

**KENTUCKY:** Dry, seasonably cold. Daytime highs 50°, 10° below mean. Lows near normal, upper 30s. Precipitation light with first snowflakes. Rainfall 0.50 in., 0.25 in. below mean.

Days suitable for fieldwork 2.9. Soil moisture 1% very short, 16% short, 78% adequate, 5% surplus. Wet conditions slowed corn, soybean harvest. Burley tobacco 28% stripped, 39% 1991, 30% avg. Condition stripped tobacco fair to good. Winter wheat 80% seeded, behind 1991, avg. Pastures mostly good.

**LOUISIANA:** Temperatures 3.9 to 7.2° below normal. Extremes 28°; 84°. Rainfall 1.19 in. northwest to 6.24 in. southeast.

Days suitable for fieldwork 2.9. Soil moisture 37% adequate, 63% surplus. Pecans 59% very poor, 36% poor, 3% fair, 2% good; 53% harvested, 37% 1991, 35% avg. Soybeans 98% shedding leaves, 98% 1991, 99% avg. Green bean syndrome affecting some fields. Wheat 45% planted, 54% 1991, 52% avg.; 33% emerged, 38% 1991, 32% avg. Sugarcane 49% fair, 51% good; 99% planted, 100% 1991, 100% avg.; 35% harvested, 47% 1991, 41% avg. Sugar recovery dropped due to rain. Sweetpotatoes 83% harvested, 93% 1991, 92% avg. Livestock 33% fair, 63% good, 4% excellent. Marketing of spring born calves. Pastures 1% very poor, 6% poor, 13% fair, 80% good. Vegetables 2% poor, 9% fair, 64% good, 25% excellent. Crawfish pond flooding continued. Strawberry plants being set out, southeast.

**MARYLAND & DELAWARE:** **MARYLAND:** Precipitation 1.94 in. Temperature 50.6°, normal 49.6°. Extremes 29°; 74°.

Days suitable for fieldwork 1.9. Topsoil 6% short, 53% adequate, 41% surplus. Subsoil 12% short, 69% adequate, 19% surplus. Corn good; grain harvested: 71%, 93% 1991, 90% avg. Soybeans fair to good; 53% harvested, 73% 1991, 63% avg. Sorghum good: 56% harvested, 100% 1991. Pastures, cattle, mostly excellent. Alfalfa fifth cutting 54%, other hay fourth cutting 82%, supplies mostly adequate. Apples harvested 94%, 98% 1991, 99% avg. Sweetpotato harvest nearing completion, small grain seeding slowed by rain, cold: wheat 67% complete, barley 93%, rye 74%, oats 97%; all emerging well, good.

**DELAWARE:** Precipitation 2.16 in. Temperature 52.3°, normal 50.3°. Extremes 35°; 71°.

Days suitable for fieldwork 2.5. Topsoil 100% adequate. Subsoil 100% adequate. Soybeans good; 50% harvested, 70% 1991, 62% avg. Corn mostly good; grain harvested: 88%, 99% 1991, 98% avg. Sorghum good; 43% harvested, 92% 1991. Hay making virtually complete; supplies adequate. Pastures mostly excellent. Small grain seeding slowed by rain, cold: wheat seeding 59% complete, barley 83%, rye 78%; seedlings emerging well.

**MICHIGAN:** Temperatures 1 to 6° below normal. Extremes 23°; 48°. Precipitation none to 1.72 in. across the State.

Days suitable for fieldwork 2.0. Soil moisture 20% adequate, 80% surplus. Corn silage 95% harvested, 100% 1991, 99% avg. Sugarbeets 98% harvested, 100% 1991, 95% avg. Pasture 75% of normal. Major activities: Harvesting of field crops, seeding wheat.

**MINNESOTA:** Temperatures 6 to 11° below normal. Extremes 11°; 45°. Precipitation 0.37 to 1.19 in., 0.16 to 0.89 in. above normal. Greatest weekly total 2.26 in.

Days suitable for fieldwork 0.8. Topsoil 3% very short, 8% short, 50% adequate, 39% surplus. Subsoil 7% very short, 18% short, 54% adequate, 21% surplus. Corn 39% harvested 97% 1991, 97% avg.; 26% moisture content 16% 1991, 18% avg.; 16% stubble plowed, 71% 1991, 79% avg. Soybeans 61% stubble plowed, 83% 1991, 82% avg. Sunflowers 86% harvested, 99% 1991, 99% avg.

**MISSISSIPPI:** Temperatures 53°, 4.4° below normal. Extremes 25°; 83°. State received above average rainfall. Southern one-third received 2.00 to 5.00 in. above normal. Rainfall 2.54 in., 1.73 in. above normal. Soil temperatures 58°.

Days suitable for fieldwork 2.0, 4.4 1991, 5.1 avg. Soil moisture 36% adequate, 52% surplus, 12% excessive. Cotton 89% harvested, 91% 1991, 91% avg.; 11% poor, 41% fair, 41% good, 7% excellent. Soybeans 75% harvested, 71% 1991, 74% avg.; 18% fair, 66% good, 16% excellent. Sweetpotatoes harvested 90%, 100% 1991, 93% avg.; 27% fair, 52% good, 21% excellent. Wheat planted 65%, 64% 1991, 65% avg.; 54% emerged, 49% 1991, 44% avg.; 43% fair, 53% good, 4% excellent. Pecans 30% harvested, 45% 1991, 28% avg.; 60% very poor, 13% poor, 24% fair, 3% good. Livestock 11% fair, 81% good, 8% excellent. Pasture 89% of normal. Activities: Planting wheat, harvesting cotton, soybeans, shop work.

**MISSOURI:** Temperatures 4 to 11° below normal. Precipitation 0.48 in. including light snow. Rainfall 0.19 in. northwest to 0.66 in. central.

Days suitable for fieldwork 1.3. Topsoil 5% short, 74% adequate, 21% surplus. Cool, damp weather hindered progress of harvest for all row crops. Corn harvest least advanced northwestern, north central districts at around 50%, northeastern 64%. Percentages completion for corn central districts in 80s, southern districts virtually complete. Soybean harvest most advanced northern districts at 94%, all other districts in mid 80s except southwest 51%. Sorghum harvest least advanced northeast at 57%, followed closely by north central, northwest, southwest, while virtually complete southeast. Wheat, pastures showing good response to recent moisture. Pasture 2% very poor, 35% fair, 53% good, 1% excellent. Ground worked at least once for spring crops 27%, 34% 1991, 44% avg.

**MONTANA:** Temperatures slightly above normal west, slightly below normal in east, while precipitation was above normal, west, central, slightly below normal south central, east.

Grazing open. Most livestock moved from summer pasture.

**NEBRASKA:** Temperatures 6° below normal west to 12° below normal east. Scattered precipitation throughout week, averaging about 0.20 in. across State.

Days suitable for fieldwork 2.8. Topsoil 6% short, 69% adequate, 25% surplus. Subsoil 7% short, 85% adequate, 8% surplus. Winter wheat 28% fair, 57% good, 15% excellent. Corn harvest four weeks behind normal; 46% harvested, 99% 1991, 95% avg. Sorghum harvest four weeks behind normal; 59% harvested, 100% 1991, 98% avg. Harvest delays due to weather conditions, high grain moisture content. Pasture, range 96% of normal. Cattle moved to stalks as available. Some supplemental hay feeding.

**NEVADA:** Shower activity was followed by high pressure mid week. Weak cold fronts moved southeast late in week. Heaviest rainfall in northeast corner. A couple locations had around 0.75 in. Rain in west was sparse, light, southern areas remained dry.

Temperatures in west above normal for week. Unusual highs in the 70s were common. Cooler air, clouds kept temperatures near normal in northeast. North winds kept temperatures in south near normal.

Hard frosts were a reminder that the growing season is about ended. Farmers, ranchers preparing for usual winter chores, livestock feeding activities. Supplemental feeding already started. Mild, open weather generally easy on livestock.

**NEW ENGLAND:** Precipitation 0.40 to 0.88 in. northern Maine, 0.90 to 1.60 in. elsewhere. Temperatures low 30s to mid 40s. Maximum temperatures high 40s to high 50s, minimum temperatures low teens to mid 20s north, high teens to low 30s south.

Major farm activities: Finishing harvest of corn silage, late apple varieties, planting winter rye for cover crop, some haying.

**NEW JERSEY:** Temperatures below normal, averaged 41° north, 46° south, 48° coastal. Extremes -16°; 70°. Precipitation above normal; averaged 2.40 in. north, 2.06 in. south, 2.08 in. coastal. Heaviest 24 hour total 2.75 in. on 2nd, 3rd.

Pumpkins, apples in good volume. Harvesting sweetpotatoes. Harvesting corn for grain, soybeans. Cranberry harvest nearing completion. Planting cover crops.

**NEW MEXICO:** First significant cold air mass of the autumn moved into State early, remained over the State much of the week. Temperatures approximately 10° below normal for the State. Extremes 8°; 78°. Some light snow, rain fell early, with heavier amounts confined to the north central mountains. Higher totals little over 0.50 in.

Days suitable for fieldwork 6.1. Soil moisture 82% short, 18% adequate. Crop conditions: Alfalfa harvest nearly complete. Cotton 13% poor, 38% fair, 49% good. Irrigated sorghum 20% fair, 80% good. Dryland sorghum 9% poor, 25% fair, 66% good. Irrigated wheat 38% fair, 62% good. Dryland wheat 10% very poor, 21% poor, 37% fair, 32% good. Wheat crop 100% planted, 99% emerged. Chile 11% poor, 18% fair, 71% good; red harvest progressing. Lettuce fair to good shape, harvest declining. Pecans 4% poor, 20% fair, 76% good. Cattle, sheep fair to good. Range, pasture 75% of normal.

**NEW YORK:** Wet week, frequent below normal temperatures. Readings 5° below normal. Extremes 12°; 66°. Precipitation above average, 1.00 to 2.50 in.

Days suitable for fieldwork slowed due to weather. Major activities included grain corn, silage corn harvests. Apple harvest winding down. Orchard clean up active. Wineries processing grapes. Cider making in high gear. Producers moving onions into storage.

**NORTH CAROLINA:** Temperatures 1 to 5° above normal. Precipitation 6.14 in. at Highlands to 0.19 in. at Roxboro.

Days suitable for fieldwork 2.7. Soil moisture 2% short, 58% adequate, 40% surplus. Crop condition: Pasture 2% poor, 27% fair, 66% good, 5% excellent. Cotton 4% very poor, 2% poor, 57% fair, 32% good, 5% excellent. Peanuts 50% fair, 50% good. Soybeans 3% poor, 36% fair, 60% good, 1% excellent. Winter wheat 1% poor, 18% fair, 77% good, 4% excellent. Oats 2% poor, 21% fair, 77% good. Barley 21% fair, 77% good, 2% excellent. Rye 13% fair, 84% good, 3% excellent. Soybeans leaf drop 98%, 95% 1991, 94% avg. Wheat 32% emerged, 33% 1991, 34% avg. Corn for grain harvested 95%, 95% 1991, 94% avg. Sorghum for grain harvested 79%, 82% 1991, 82% avg. Cotton harvested 34%, 74% 1991, 69% avg. Peanuts threshed 91%, 96% 1991, 92% avg. Soybeans harvested 21%, 36% 1991, 31% avg. Sweetpotatoes harvested 89%, 90% 1991, 92% avg. Winter wheat planted 45%, 51% 1991, 48% avg. Oats planted 67%, 74% 1991, 74% avg. Barley planted 71%, 82% 1991, 78% avg. Rye planted 58%, 72% 1991, 66% avg. Hay, roughage supplies 91%

adequate, 9% surplus. Feed grain supplies 3% short, 92% adequate, 5% surplus. Major activities: Seeding small grains; harvesting soybeans, cotton. Other activities: Digging, threshing peanuts; digging sweetpotatoes; completing corn harvest; planting winter cover crops; tending livestock; equipment repair.

**NORTH DAKOTA:** Cold, wet 4 to 8 in. of snow common in central, east. Temperatures 8° below normal southwest, south central to 3° below northwest. Extremes -1° northeast; 44° northeast. Precipitation 0.12 in. northwest to 0.95 in. southeast.

Days suitable for fieldwork 0.7. Topsoil improved in some areas. Topsoil 22% very short, 47% short, 28% adequate, 3% surplus. Subsoil 19% very short, 51% short, 30% adequate. Corn, sunflower harvest progressed slowly due to rain, snow. Corn for grain 69% harvested, 66% last week, NA 1991, avg. Sunflower 82% harvested, 76% last week, NA 1991, avg. Stockwater supplies 13% very short, 35% short, 52% adequate.

**OHIO:** Wintry weather arrived in State the past week with up to 2 in. snowfall over the north. Snow melted by the end of the 7-day period. High temperatures mid to upper 40s north to the low to mid 50s south which was 3 to 8° colder than normal across the State. Lows low to upper 30s. Precipitation water equivalent around 0.40 to 1.10 in. Soil temperatures at the 4 in. Depth under bare ground averaged low to mid 40s northeast to near 50° southeast.

Days suitable for fieldwork 2.5. Topsoil 2% short, 65% adequate, 33% surplus. Corn harvest is at least 3 weeks behind normal. Harvested corn moisture content 26%. Harvested soybean moisture content 14%. Pasture remains good.

**OKLAHOMA:** Weather information not available.

Days suitable for fieldwork 5.7. Topsoil 55% short, 41% adequate, 4% surplus. Subsoil 41% short, 59% adequate. Wheat 3% very poor, 11% poor, 67% fair, 19% good; 93% planted, 94% 1991, 96% avg.; 64% emerged, 73% 1991, 83% avg.; 2% grazed, 6% 1991, 14% avg. Cotton 2% poor, 27% fair, 71% good; 73% open bolls, 83% 1991, 92% avg.; 28% harvested, 19% 1991, 23% avg. Sorghum 46% fair, 52% good, 2% excellent; 92% mature, 96% 1991, 98% avg.; 64% harvested, 70% 1991, 58% avg. Soybeans 58% harvested, 64% 1991, 48% avg. Peanuts 81% harvested, 78% 1991, 75% avg. Pastures 95%. Cattle good; marketings average, prices mixed.

**OREGON:** Several Pacific storms hit the State. Precipitation 6.00 in. Crater Lake, 4.00 in. Laurel Mountain, Bonneville Dam, 1.00 to 2.00 in. areas west of the Cascades, less than 1.00 in. east of the Cascades. Temperatures 1 to 5° above normal northwestern areas, 5 to 7° above normal southwestern areas, eastern locations reported temperatures several degrees below normal.

Soil moisture mostly short to adequate. Winter wheat 99% planted, 86% emerged; 16% excellent, 76% good, 8% fair. Fall seeding of cereal grains mostly complete. Russian wheat aphid, disease problems northeastern wheat areas. Sugarbeet harvest continues, Malheur County; shipping in Klamath County. Good growth on sugarbeets for seed in Willamette Valley. Catkins setting on hazelnut trees, walnut harvest winding down; Willamette Valley. Fruit orchard winter preparations underway, statewide. Cranberry harvest winding down, will be complete next week; southern coast. Cole crops, pepper, carrot harvests continue, Willamette Valley. Livestock good. Western pastures improving, supplemental feeding has been reduced. Eastern pastures, ranges still dry, continue supplemental feeding. Fall weanings, shipments underway. Range, pasture condition 57% of normal.

**PENNSYLVANIA:** Slightly below normal temperatures, much above normal rainfall. Temperature 46°, 1° below normal. Extremes 15°; 72°. Precipitation 1.55 in., 0.87 in. above normal.

Days suitable for fieldwork 4. Soil moisture 6% short, 80% adequate, 14% surplus. Ensilage corn harvested 92% complete, 100% 1991. Soybean harvest 58% complete, 72% 1991; 2% very poor, 3% poor, 20% fair, 50% good, 25% excellent. Potato harvest 98% complete, 98% 1991. Fall plowing 84% complete, 86% 1991. Wheat planted 97% complete, 97% 1991. Barley planted 100% complete, 100% 1991. Third cutting alfalfa 98% complete, 100% 1991. Fourth cutting alfalfa 85% complete, 87% 1991. Quality of hay made 33% poor, 50% fair, 17% good. Feed from pastures 5% very poor, 20% poor, 45% fair; 30% good. Apple harvest 92% complete, 98% 1991. Grapes harvest 98% complete, 100% 1991. Activities: Hauling manure; maintaining machinery; cutting, baling hay; making corn silage; harvesting soybeans, grain corn, fruit; fall plowing; planting wheat, barley; fixing fence; caring for livestock.

**PUERTO RICO:** The National Weather Service reported that heavy rain fell on the morning of November 4. El Senorial Rio Piedras reported more than 6.00 in., and rainfall averaged more than 3.00 in. in the San Juan metropolitan area. Flooding occurred in northern Puerto Rico and in portions of the San Juan metro area.

**SOUTH CAROLINA:** Temperatures much below normal upstate, midlands to normal south coast. Rainfall 1.30 in. statewide.

Days suitable for fieldwork 3.9. Soil moisture 23% short, 65% adequate, 10% surplus. Cotton fair to good; 46% harvested, 74% 1991, 78% avg.; Soybeans fair to good; 97% leaves turning, 99% 1991, 99% avg.; 85% shredding leaves, 87% 1991, 89% avg.; 71% mature, 78% 1991, 83% avg.; 18% harvested, 32% 1991, 27% avg. Apples good; 95% harvested, 100% 1991, 98% avg. Fall hay fair to good; 96% harvested, 95% 1991, 95% avg. Peanuts fair to good; 90% harvested, 98% 1991, 93% avg. Sorghum fair to good; 81% harvested, 82% 1991, 76% avg. Oats fair to good; 62% planted, 51% 1991, 55% avg.; 50% emerged, 32% 1991, 37% avg. Rye fair to good; 63% planted, 54% 1991, 56% avg.; 51% emerged, 42% 1991, 40% avg. Winter grazing fair to good; 83% planted, 74% 1991, 80% avg.; 73% emerged, 59% 1991, 64% avg. Barley fair to good; 63% planted, 52% 1991, 53% avg.; 36% emerged, 33% 1991, 35% avg. Wheat fair to good; 17% planted, 14% 1991, 23% avg.; 9% emerged, 7% 1991, 12% avg. Several days of rain improved soil moisture, slowed fieldwork.

**SOUTH DAKOTA:** Wet, cool condition continued. Temperatures 10 to 15° below normal. Extremes -8°; 54°. Precipitation below 1.00 in. Snow cover was up to 6 in. north central, northeastern areas.

Days suitable for fieldwork 1.5. Topsoil 5% very short, 19% short, 61% adequate, 15% surplus. Subsoil 18% very short, 27% short, 45% adequate, 10% surplus. Corn 3% very poor, 7% poor, 26% fair, 50% good, 14% excellent. Winter rye 30% fair, 69% good, 1% excellent. Sorghum harvest 76% complete, 100% 1991, 96% avg. Sunflowers harvest 83% completed, 100% 1991, 100% avg. Wet, snowy conditions stopped the corn harvest in most areas. Livestock 6% fair, 79% good, 15% excellent. Pasture 77% of normal.

**TENNESSEE:** Rainfall was generally around 0.50 in. west, middle, between 1.00 to 2.00 in. east. Temperatures 5 to 10° below normal.

Days suitable for fieldwork 2.8. Soil moisture, 5% short, 69% adequate, 26% surplus. Corn 91% grain harvested, 91% 1991, 94% avg. Cotton 70% harvested, 86% 1991, 87% avg. Sorghum 96% harvested, 91% 1991, 96% avg. Soybeans 94% mature, 93% 1991, 94% avg.; 58% harvested, 62% 1991, 72% avg. Wheat 67% seeded,

68% 1991, 71% avg. Burley tobacco 52% stripped, 50% 1991, 51% avg. Cattle 11% fair, 82% good, 7% excellent. Pasture 2% poor, 18% fair, 67% good, 13% excellent. Farm activities: harvesting corn, sorghum, cotton, soybeans; stripping, grading tobacco; fall seedings.

**TEXAS:** First major fall freeze brought scattered showers, much lower temperatures across State. Some scattered snow flurries High Plains, Trans-Pecos. Wet conditions delayed harvest activities several areas, freeze improved harvest conditions those areas with late sorghum, cotton fields. Livestock remained good, with increased supplemental feeding.

**Crops:** Cotton harvest Blacklands delayed by rainfall. Harvest early fields High Plains progressed on schedule. Freeze should kill most plants, enhance harvest activity. Some immature bolls, late cotton, Plains suffered adverse effects from freeze. Grain sorghum harvest High Plains benefitted from freeze, which helped dry grain. Some areas Low Plains, stubble fields utilized livestock grazing. Planting small grains resumed several areas. Germination of previously planted dryland fields helped by showers. Peanut harvest active across State. Rainfall, along with freeze, should speed harvest activities. Statewide condition 81% normal, 74% 1991. 67% harvested, 62% 1991, 59% avg. Soybean harvest continued as conditions permitted.

**Commercial Vegetables:** Rio Grande Valley, pepper, cucumber harvest continued. High Plains, cabbage harvest continued. East Texas, greens, sweetpotatoes harvested. Some vegetable crops damaged by freeze. Trans Pecos, onion planting continued. Pecan harvest proceeded most areas, aided by cool temperatures. Cross Timbers, fungal problems evident some pecans.

**Range and Livestock:** Precipitation aided range, pasture conditions, cooler temperatures slowed growth. Stock tank levels remained below normal. Livestock conditions remained good, supplemental feeding increased. Fall calving continued.

**UTAH:** Temperature maximums 8° below normal, minimums 2° above normal. Precipitation was moderate in the western Uintah Basin, southeast division, heavy elsewhere.

Recent rains, cold weather have slowed fall tillage activities. Major farm activities include winterizing equipment, irrigation systems. Range cattle are now grazing crop residue.

**VIRGINIA:** Temperatures above normal early, near normal by the weekend. Precipitation was normal. Extremes 25°; 75°.

Days suitable for fieldwork 2.2. Topsoil 7% short, 60% adequate, 33% surplus. Pasture 5% poor, 46% fair, 45% good, 4% excellent. Corn harvested for grain 82%, 95% 1991, 89% avg. Soybeans harvested 35%, 57% 1991, 48% avg. Apple harvest 98%, 100% 1991, 96% avg. Peanuts 99% dug, 100% 1991, 100% avg. Peanuts combined 99%, 100% 1991, 96% avg. Cotton harvested 11%, 70% 1991, 70% avg. Oats seeded 90%, 94% 1991, 94% avg. Barley seeded 81%, 96% 1991, 91% avg. Winter wheat seeded 47%, 71% 1991, 66% avg. Winter grains, grazing crops 7% poor, 49% fair,

39% good, 5% excellent. Forage from pastures, grazing crops dairy cattle 24%, beef cattle 83%, sheep 80%. Stripping, grading burley tobacco. Gassing tobacco plantbeds. Taking soil samples.

**WASHINGTON:** Temperatures 1 to 4° above normal west; 3° below to 6° above normal east. Rainfall 0.84 to 2.75 in. west; 0.08 to 0.97 in. east.

Days suitable for fieldwork 4.1. Soil moisture 52% short, 48% adequate. Hay, other roughage 16% short, 64% adequate, 20% surplus. Range, pasture 20% very poor, 41% poor, 33% fair, 6% good. Winter wheat emerged 97%, 84% 1991, 89% avg.; 63% fair, 37% good. Potatoes 97% harvested, 91% 1991, 98% avg. Corn grain harvested 78%, 46% 1991, 57% avg.; 100% good. Significant precipitation received statewide. Moisture stressed cereal crops recovering eastern areas. Russian wheat aphid populations increasing, yellowing fields central areas. Biological controls established Garfield county. Potato harvest winding down. Orchardists continue weed control, prepare equipment, irrigation systems for winter. Carrots dug central regions, mushrooms harvested west. Christmas tree harvest continues. Limited flooding reported western pastures, ranges. Livestock winter feeding programs continue.

**WEST VIRGINIA:** Temperature 46°. Extremes 25°; 74°. Precipitation 0.90 in.

Days suitable for fieldwork 3.0. Soil moisture, 8% very short, 24% short, 68% adequate. Corn, 65% harvested. Pastures, 15% poor, 48% fair, 37% good; 77% of normal. Cattle, good. Sheep, good. Soybeans, 70% harvested. Wheat, sown 67%. Farm activities: General maintenance; chopping silage; harvesting corn, soybeans; sowing wheat; stripping tobacco.

**WISCONSIN:** Temperature 31°; 9° below normal. Extremes 0°; 59°. Precipitation 0.30 to 0.60 in. Rain, sleet, snow received this week kept all harvesting activities at a minimum. It may take a freeze for some fields to be able to handle the equipment.

Days suitable for fieldwork 1.6. Soil moisture 59% adequate, 41% surplus. General condition of crops 1% very poor, 4% poor, 46% fair, 47% good, 2% excellent. Corn 2% very poor, 6% poor, 43% fair, 46% good, 3% excellent. Corn for grain 24% harvested, 82% 1991, 80% avg. Very little progress during the week because of the weather. Moisture content is still high. Corn silage 93% harvested. Soybeans 84% harvested, 96% 1991, 94% avg. Intended fall tillage 35% complete, 51% 1991, 55% avg. Hay, roughage supplies 22% short, 74% adequate, 4% surplus.

**WYOMING:** Temperatures were well below normal across State. Some regions were as much as 6 to 10° below normal. Precipitation fell over most of the State with most areas receiving above normal amounts. A few regions in the north, southeast had normal to below normal amounts.

Corn for grain harvest continuing. Sugarbeet harvest concluding. Producers marketing calves, lambs. Livestock mostly good, movement to winter ranges continuing.

(Continued from front cover)

the Gulf coast to the east coast occurred twice during the first half of the week. Rainfall topped 4 inches in an area from eastern Louisiana to the southern Appalachians. The storminess brought flash flooding to parts of the Southeast, and was accompanied by at least 10 tornadoes from Louisiana to North Carolina and Florida. But after midweek, a strong high pressure system overspread the Nation. By Thursday morning, daily records in

Texas included lows of 23°F in Wichita Falls and 41°F in Brownsville. In San Antonio, TX (31°F), the first freeze arrived more than 3 weeks earlier than normal. Late in the week, light snow plagued the northern half of the Nation, while unseasonably cold weather pushed into the Gulf Coast States. Topeka, KS, received 2 inches of snow on Saturday morning, and temperatures dipped below freezing as far south as Alexandria, LA, and McComb, MS. By Saturday night, snow depth remained greater than 1 inch north of a line extending from Huron, SD, to Houghton Lake, MI.

**International Weather and Crop Summary  
HIGHLIGHTS**

November 1 - 7, 1992

**FSU:** Winter grains were in or entering dormancy as far south as southern Ukraine.

**EUROPE:** Variable showers covered most of Europe.

**SOUTH ASIA:** Dryness favored summer harvests but reduced moisture for rain-fed fall crops.

**EASTERN ASIA:** Showers favored soil moisture and reservoir levels across central China.

**SOUTHEAST ASIA:** Drier weather covered Indochina. Beneficial rain continued in Philippine fall grain areas.

**AUSTRALIA:** Rain aided filling northeastern wheat.

**SOUTH AMERICA:** Soils remained well-watered across southern Brazil. Dry and cool weather stressed wheat in western Argentina.

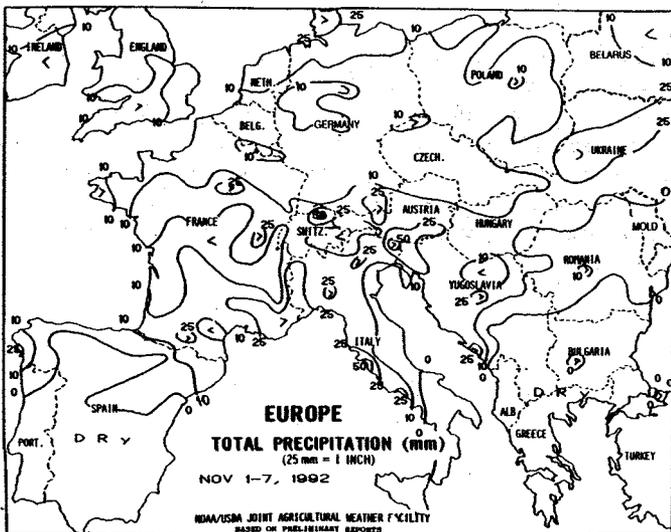
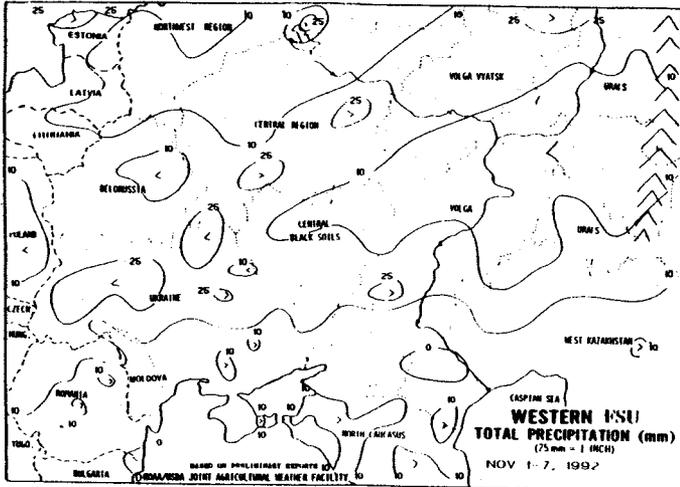
**MEXICO:** Dry weather aided fieldwork across the northwest, while rain caused only minor harvesting delays across the corn belt.

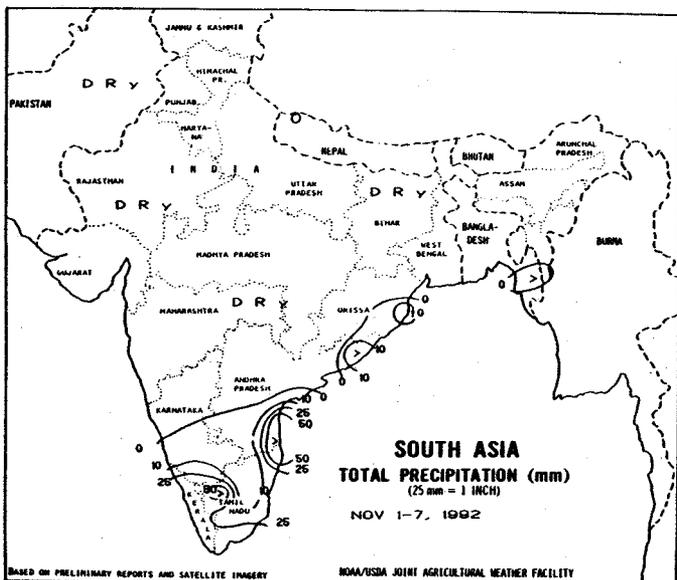
**NORTHWESTERN AFRICA:** Significant rain in central and eastern Algeria and Tunisia provided adequate to abundant moisture for winter grain planting.

**SOUTH AFRICA:** Much-needed showers improved planting prospects in drought-stricken corn areas.

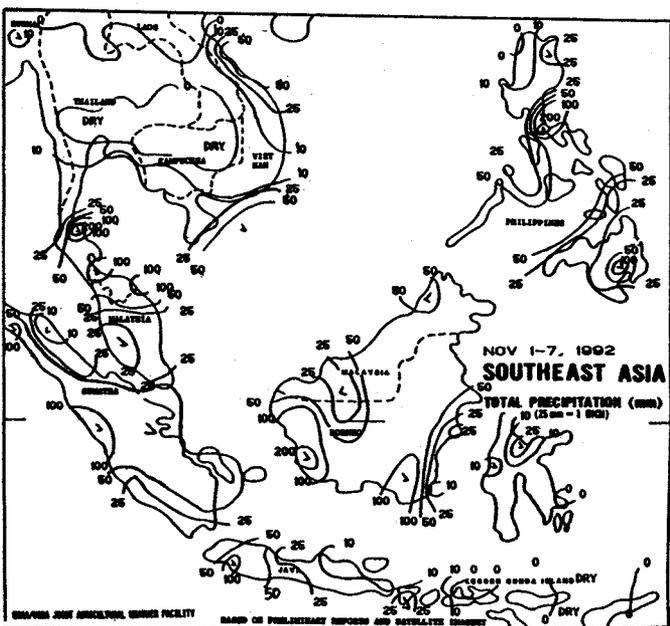
**FSU-WESTERN:** Early-week high pressure ushered in unseasonably cold, dry weather. Winter grains were typically entering dormancy as far south as southern Ukraine and the northern tip of North Caucasus. Weekly average temperatures were near to slightly above normal over the region, with extreme cold (minimum temperatures less than -15 degrees Celsius) remaining well to the north of the major winter grain-producing areas. By week's end, milder air accompanied widespread precipitation, which fell mainly in the form of rain. Greatest amounts of rainfall (10-35 mm) covered Belarus, northern Ukraine, the southern portion of Central Region, Volga Vyatsk, and lower Volga, benefiting winter grains. In south-central cotton-growing areas, light, scattered rain (amounts less than 10 mm) caused only minor delays in cotton harvest. Late-week subfreezing temperatures (minimum temperatures from -1 to -10 degrees Celsius) over most cotton areas ended the growing season.

**EUROPE:** Rainfall diminished from the previous week over most areas. Showers across southern France slowed late corn harvesting. Scattered rain from extreme southern England to the Adriatic region caused some delays in sugar beet harvesting and autumn fieldwork. The moisture benefited winter crop establishment over much of Germany, northern France, Hungary, and northern Romania. Light showers provided some help to emerging crops in the northeast. Dry weather prevailed across the Mediterranean region. Topsoil moisture is needed in southeastern Europe. Temperatures averaged 1-3 degrees Celsius (C) above normal, except in France and central Germany, where temperatures averaged near normal.

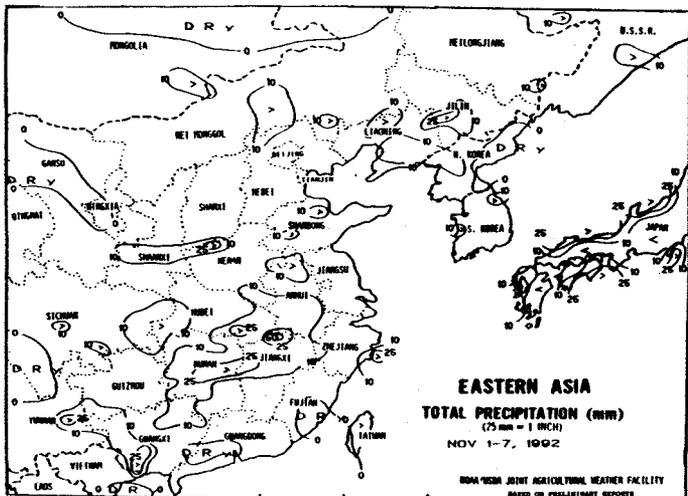




**SOUTH ASIA:** Seasonable showers (10-50 mm or more) fell over coastal areas of southern India, but again failed to reach primary fall crop regions of the southern interior. More rain is needed soon for reproductive to filling grains, oilseeds, and cotton. Further north, the dryness was welcomed for summer crop harvests and winter wheat planting.



**SOUTHEAST ASIA:** Seasonably drier weather returned to Indochina, with heavy showers (50-100 mm or more) limited to the southern half of peninsular Thailand. The dryness aided dry down of warm season rice, and was especially welcomed in Vietnam following recent typhoon activity. Showers also tapered off over Indonesia and Malaysia, although moderate amounts (25-50 mm or more) were scattered throughout the area. In the Philippines, moderate to heavy rain (25-100 mm or more) continued from southern Luzon to Mindanao, benefiting fall rice and corn.



**EASTERN ASIA:** Light to moderate rain (7-44 mm) fell across south-central China (Hunan, Jiangxi, Hubei and Anhui), favoring reservoir levels and soil moisture for winter crops. Further north, scattered rain (4-28 mm) covered the North China Plain, aiding soil moisture for germinating winter wheat. Temperatures averaged 2-4 degrees C above normal across most of China, except for south-central China, which reported temperatures 1-3 degrees C below normal.



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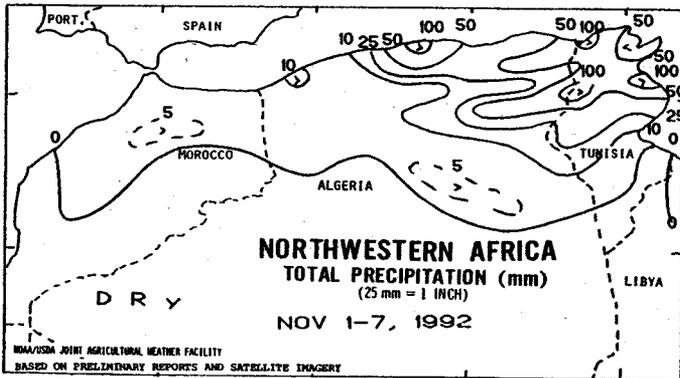
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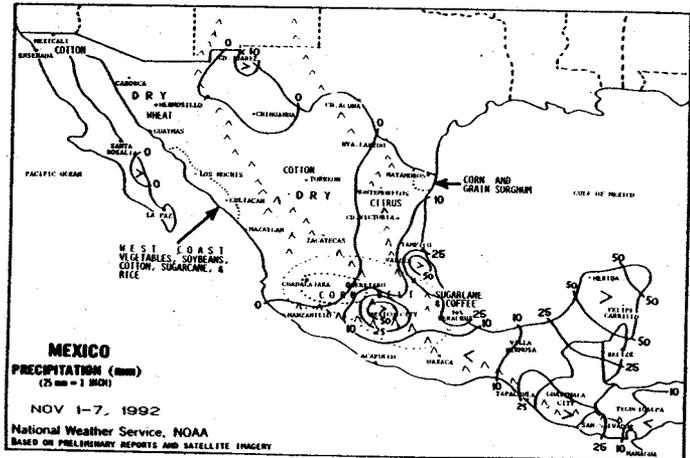
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**NORTHWESTERN AFRICA:** Moderate to heavy rain (21-50 mm, with local amounts in excess of 75 mm) covered winter grain areas in central and eastern Algeria and Tunisia. The rain in these areas provided adequate to abundant moisture for winter grain planting. Elsewhere, although light showers (2-10 mm) moistened topsoils in Morocco and western Algeria, soaking rain is needed to promote widespread planting. Weekly average temperatures were 1-3 degrees C below normal in Morocco and western Algeria, and 3-6 degrees C below normal in eastern Algeria and northern Tunisia.



**MEXICO:** Light to moderate showers (5-30 mm) fell across the central and eastern corn belt, causing only minor harvesting delays. Favorably dry weather continued across the northwest, where winter wheat and vegetable planting progressed.

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