

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

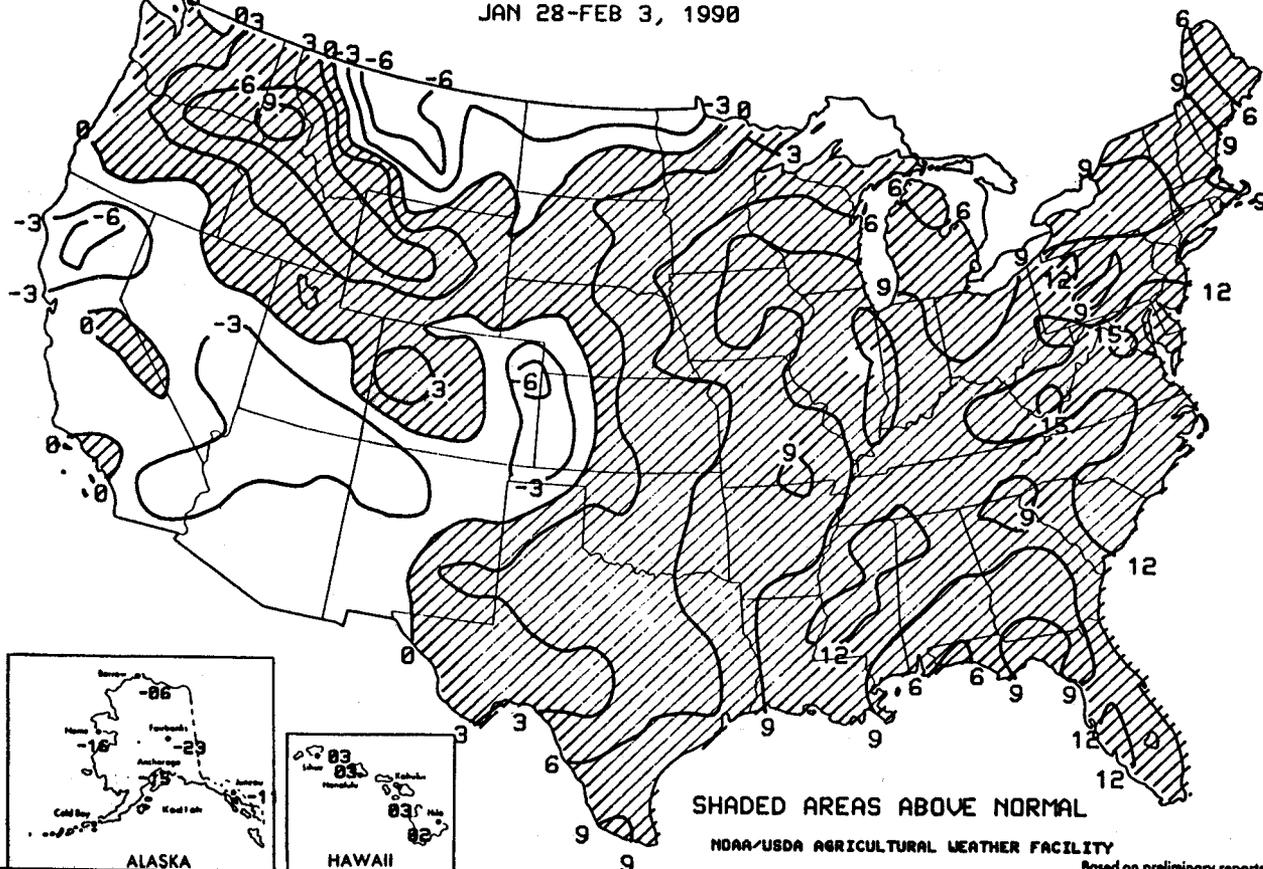
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February 6, 1990

DEPARTURE OF AVERAGE TEMPERATURE FROM NORMAL (°F)

JAN 28-FEB 3, 1990



Winter storms also brought heavy snow to the Southwest. Dry weather continued over much of the Great Plains.

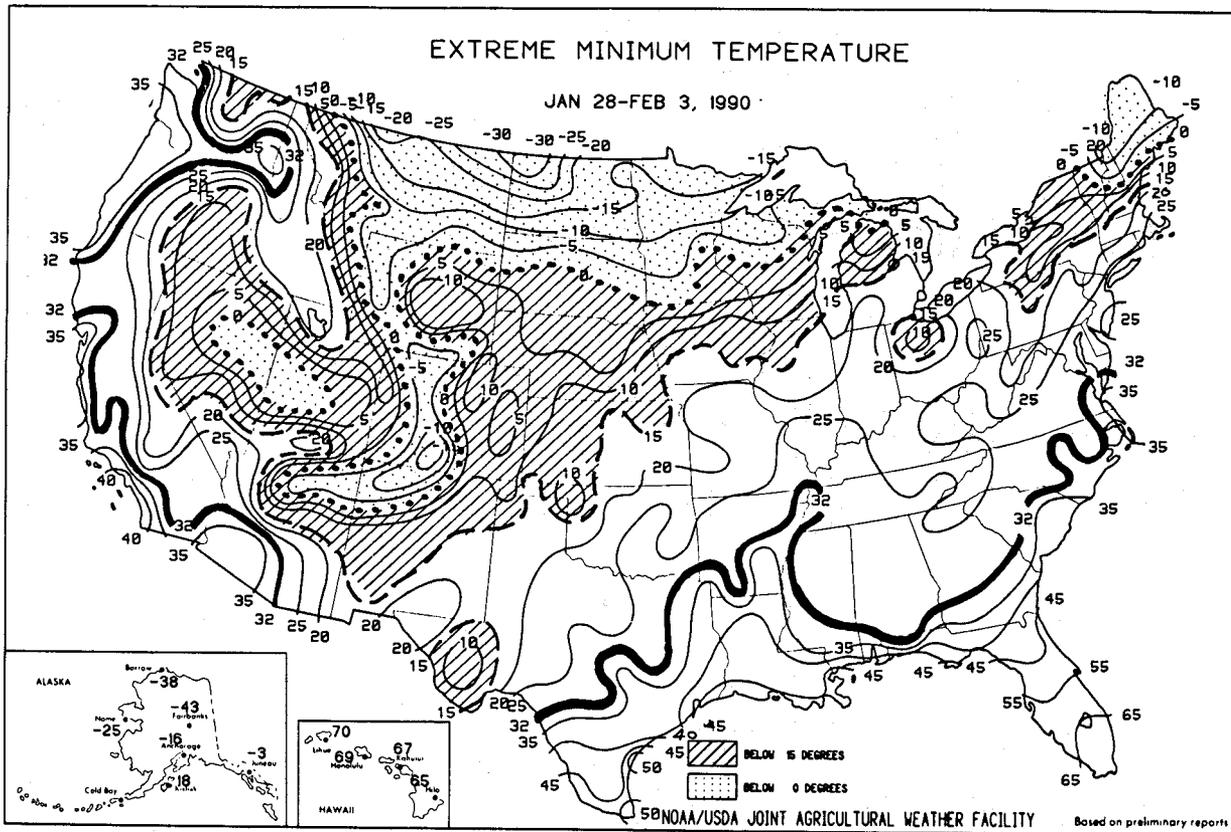
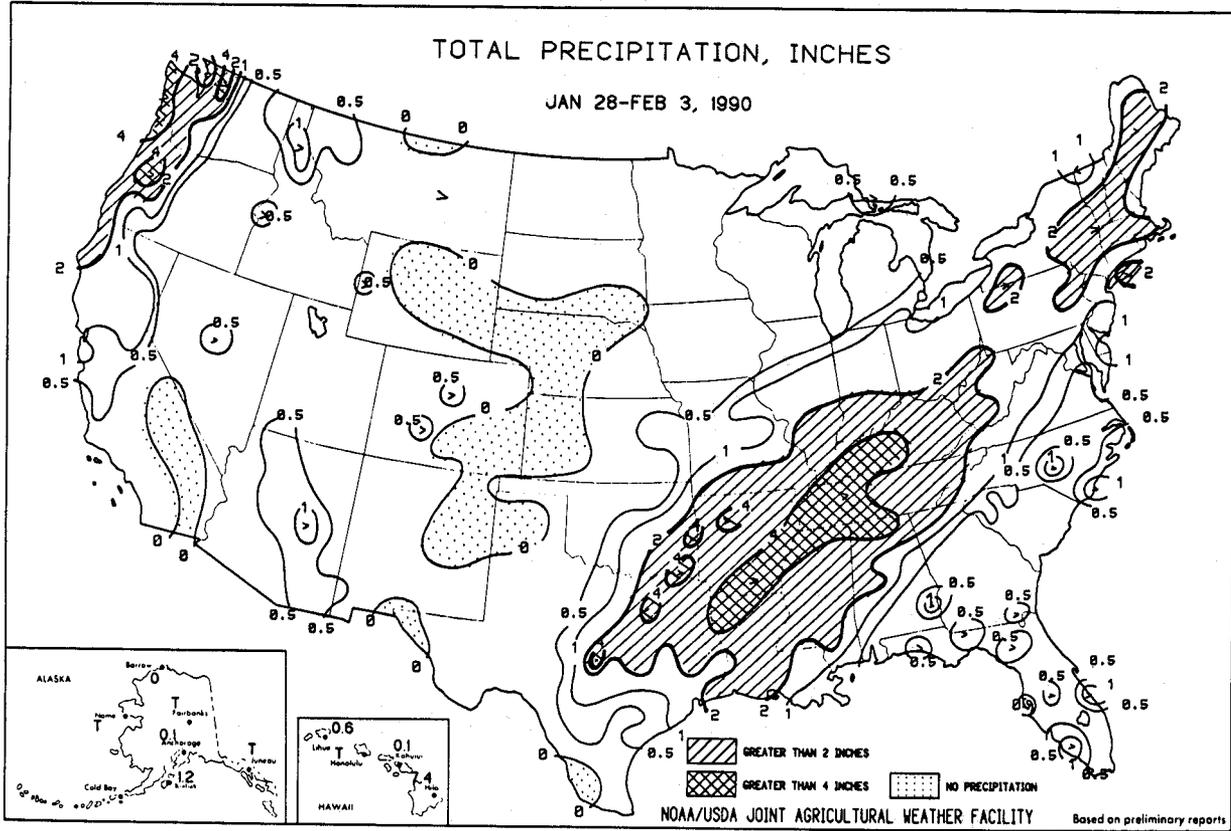
HIGHLIGHTS

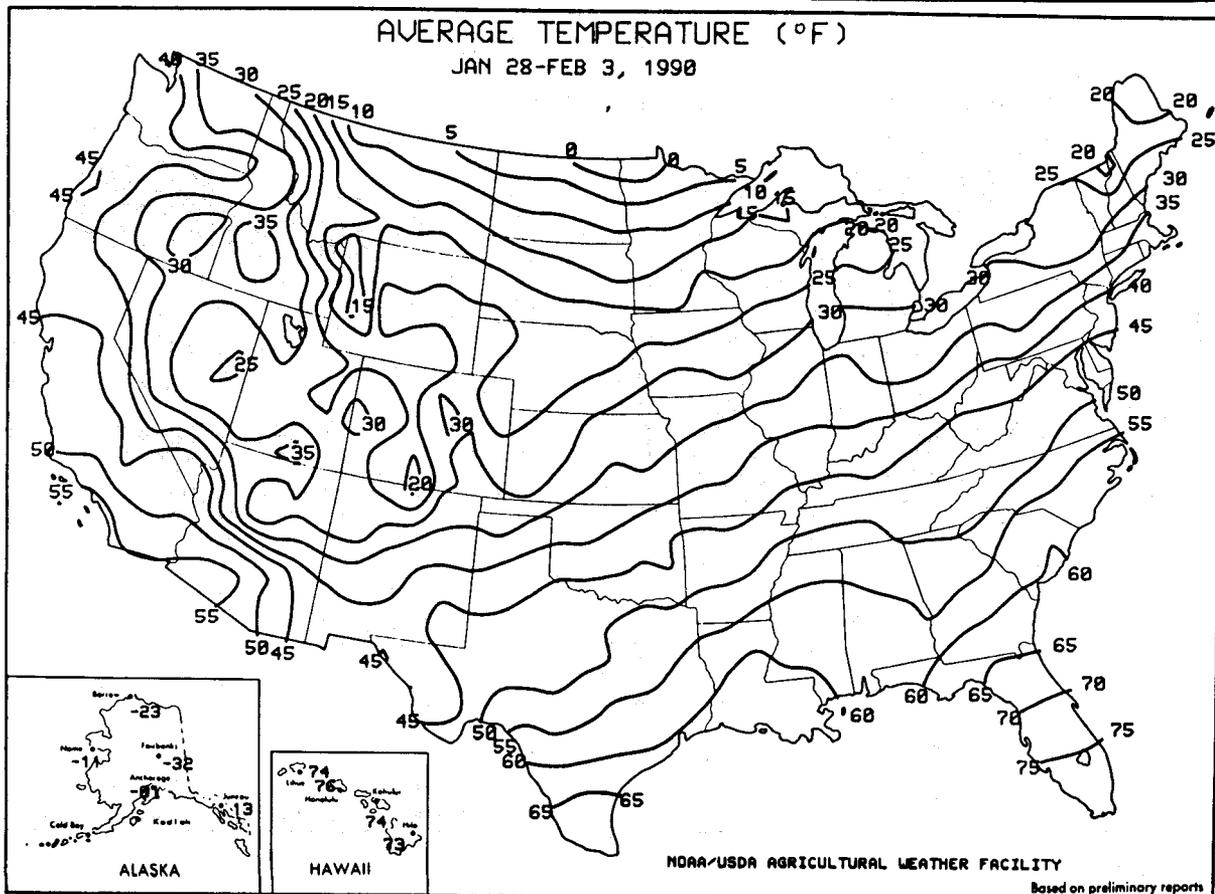
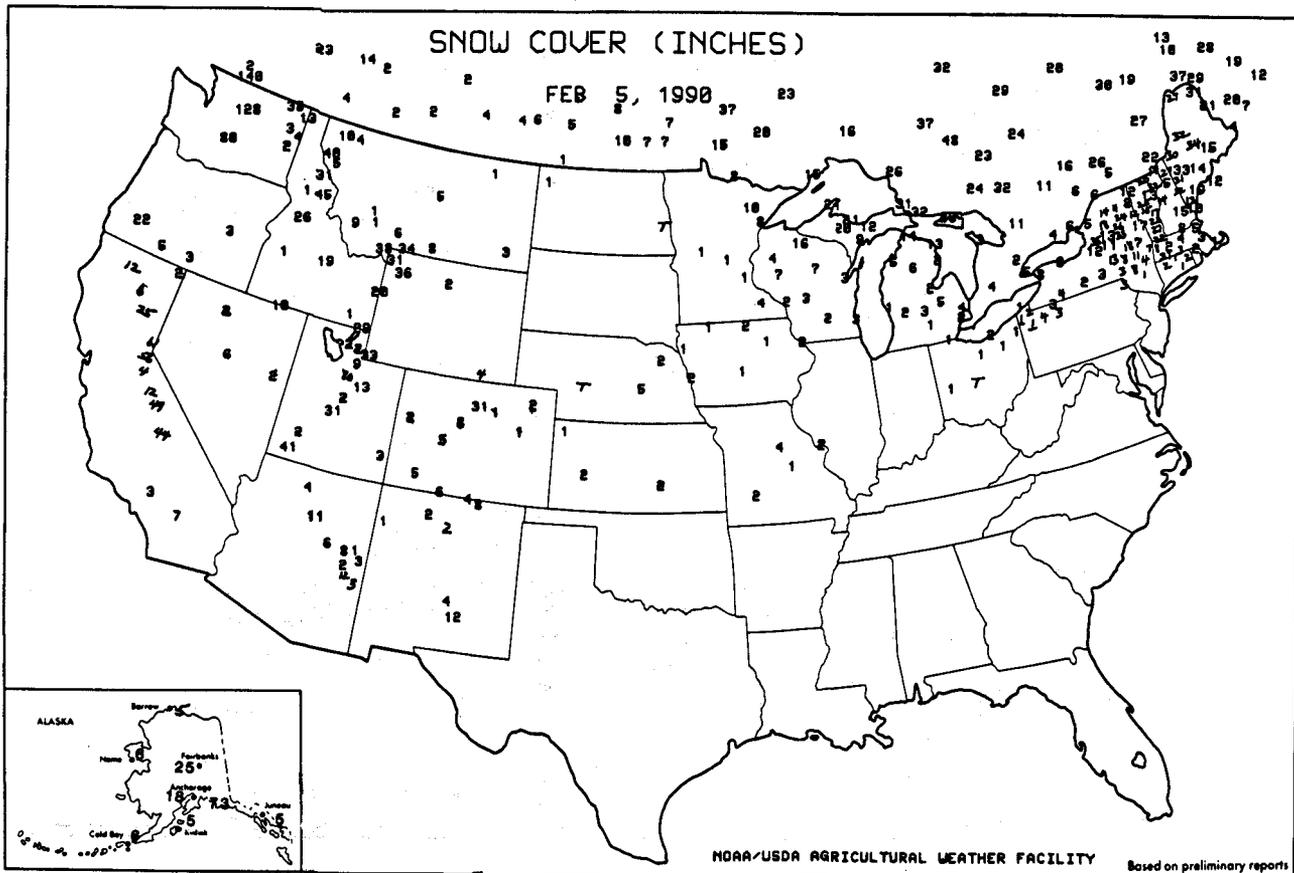
January 28-February 3, 1990

Warm weather continued to prevail over most of the Nation. Temperatures averaged from 6 to 12 degrees Fahrenheit above normal over the eastern half of the country and northern Rockies. A number of record-high temperatures for the date were reported during the latter part of the week across the southeastern quarter of the United States. At the first of the week, a frontal system brought heavy rainfall from the Delta to the northern and middle Atlantic Coast States and dumped heavy snow over northern New England. A second system at week's end brought moderate to heavy rain from eastern Texas, across the Mississippi Valley, and into the Northeast and spread snow across the central Plains into the upper Great Lakes. Winter storms continued to batter the Pacific Northwest with strong wind and precipitation.

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National Weather Data for Selected Cities

Weather Data for the Week Ending February 3, 1990

| STATES AND STATIONS | TEMPERATURE °F | | | | | | PRECIPITATION | | | | | | RELATIVE HUMIDITY, PERCENT | | NUMBER OF DAYS | | | | |
|---------------------------|--------------------|--------------------|-----------------|----------------|---------|--------------------------|----------------------|--------------------------|-----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|--------------------|--------------------|----------------|--------------|---------------------|---------------------|
| | AVERAGE MAXIMUM | AVERAGE MINIMUM | EXTREME HIGH | EXTREME LOW | AVERAGE | DEPARTURE FROM NORMAL | WEEKLY TOTAL, IN. | DEPARTURE FROM NORMAL | GREATEST IN 24-HOUR, IN. | TOTAL, IN., SINCE Dec 1 | PCT. NORMAL SINCE Dec 1 | TOTAL, IN., SINCE JAN 1 | PCT. NORMAL SINCE JAN 1 | AVERAGE MAXIMUM | AVERAGE MINIMUM | TEMPERATURE °F | | | |
| | | | | | | | | | | | | | | | | 90 AND ABOVE | 32 AND BELOW | .01 INCH OR MORE | .50 INCH OR MORE |
| AL BIRMINGHAM | 68 | 42 | 80 | 29 | 55 | 11 | 1.6 | .5 | .9 | 11.4 | 107 | 8.0 | 140 | 97 | 52 | 0 | 3 | 2 | 2 |
| MOBILE | 69 | 49 | 78 | 38 | 59 | 7 | .4 | -.6 | .4 | 14.6 | 140 | 7.4 | 146 | 100 | 67 | 0 | 0 | 3 | 0 |
| MONTGOMERY | 70 | 42 | 80 | 29 | 56 | 9 | .4 | -.6 | .4 | 19.3 | 206 | 10.2 | 220 | 97 | 58 | 0 | 3 | 1 | 0 |
| AK ANCHORAGE | 7 | -8 | 11 | -16 | -1 | -16 | .1 | -.1 | .1 | 3.1 | 158 | 1.4 | 167 | 86 | 64 | 0 | 7 | 1 | 0 |
| BARROW | -18 | -27 | -12 | -38 | -23 | -6 | .1 | -.1 | 0 | .2 | 58 | T | 11 | 78 | 60 | 0 | 7 | 0 | 0 |
| FAIRBANKS | -23 | -36 | -15 | -43 | -32 | -22 | T | -.1 | T | 1.1 | 82 | .5 | 88 | 70 | 53 | 0 | 7 | 0 | 0 |
| JUNEAU | 18 | 8 | 29 | -3 | 13 | -11 | .1 | -.7 | .1 | 9.9 | 114 | 3.6 | 87 | 83 | 53 | 0 | 7 | 1 | 0 |
| KODIAK | 33 | 26 | 36 | 18 | 29 | -1 | 1.2 | -.1 | .5 | 19.0 | 160 | 6.8 | 107 | 85 | 62 | 0 | 5 | 5 | 1 |
| NOME | 4 | -19 | 5 | -25 | -11 | -16 | T | -.2 | T | 1.6 | 110 | .9 | 105 | 77 | 61 | 0 | 7 | 0 | 0 |
| AZ PHOENIX | 65 | 43 | 71 | 38 | 54 | 0 | .3 | .2 | .3 | 1.3 | 82 | 1.1 | 146 | 63 | 21 | 0 | 0 | 0 | 0 |
| PRESCOTT | 47 | 23 | 58 | 13 | 35 | -2 | -.7 | -.3 | .4 | 2.2 | 62 | 1.9 | 99 | 76 | 28 | 0 | 7 | 3 | 0 |
| TUCSON | 63 | 35 | 77 | 29 | 49 | -3 | .5 | .3 | .4 | 1.5 | 83 | 1.3 | 153 | 76 | 21 | 0 | 3 | 3 | 0 |
| YUMA | 69 | 44 | 74 | 38 | 57 | -1 | .1 | 0 | 0 | .1 | 18 | .1 | 33 | 44 | 16 | 0 | 0 | 2 | 0 |
| AR FORT SMITH | 58 | 36 | 65 | 29 | 47 | 8 | 2.9 | 2.4 | 2.3 | 8.3 | 170 | 7.6 | 370 | 97 | 53 | 0 | 3 | 4 | 1 |
| LITTLE ROCK | 57 | 41 | 64 | 34 | 49 | 8 | 2.5 | 1.6 | 1.0 | 8.1 | 96 | 6.6 | 154 | 86 | 64 | 0 | 0 | 6 | 2 |
| CA BAKERSFIELD | 60 | 36 | 71 | 31 | 48 | -2 | .1 | -.1 | .1 | .8 | 47 | .8 | 73 | 97 | 42 | 0 | 2 | 2 | 0 |
| EUREKA | 52 | 40 | 55 | 38 | 46 | -2 | 2.6 | 1.2 | .7 | 9.1 | 66 | 8.3 | 109 | 93 | 76 | 0 | 0 | 7 | 2 |
| PRESNO | 57 | 36 | 64 | 30 | 47 | 1 | .1 | -.3 | .1 | 2.9 | 75 | 2.9 | 128 | 98 | 52 | 0 | 2 | 2 | 0 |
| LOS ANGELES | 66 | 49 | 78 | 44 | 57 | 1 | .1 | -.6 | .1 | 1.2 | 24 | 1.2 | 35 | 84 | 36 | 0 | 0 | 1 | 0 |
| REDDING | 50 | 32 | 57 | 26 | 41 | -7 | 1.5 | -.3 | .5 | 8.7 | 53 | 8.7 | 93 | 94 | 59 | 0 | 3 | 5 | 2 |
| SACRAMENTO | 59 | 37 | 63 | 31 | 48 | 0 | 1.0 | .1 | .5 | 5.6 | 77 | 5.6 | 128 | 96 | 50 | 0 | 2 | 5 | 0 |
| SAN DIEGO | 65 | 47 | 75 | 44 | 56 | 0 | .4 | -.1 | .4 | 3.5 | 85 | 2.5 | 111 | 75 | 35 | 0 | 0 | 1 | 0 |
| SAN FRANCISCO | 56 | 43 | 58 | 37 | 49 | -1 | 1.0 | 0 | .5 | 3.6 | 42 | 3.6 | 71 | 91 | 58 | 0 | 0 | 5 | 1 |
| CO DENVER | 44 | 20 | 53 | 14 | 32 | 1 | .2 | .1 | .2 | 1.7 | 153 | .8 | 149 | 80 | 36 | 0 | 7 | 2 | 0 |
| GRAND JUNCTION | 43 | 23 | 49 | 11 | 33 | 4 | .2 | .1 | .2 | .9 | 71 | .8 | 119 | 75 | 31 | 0 | 6 | 2 | 0 |
| PUEBLO | 46 | 18 | 58 | 8 | 32 | 0 | T | -.1 | T | 1.1 | 198 | .6 | 222 | 91 | 31 | 0 | 7 | 0 | 0 |
| CT BRIDGEPORT | 45 | 33 | 54 | 28 | 39 | 10 | 1.1 | .4 | .7 | 5.0 | 69 | 4.0 | 114 | 93 | 55 | 0 | 4 | 4 | 1 |
| HARTFORD | 44 | 27 | 54 | 22 | 36 | 10 | 1.7 | 1.0 | 1.0 | 5.8 | 73 | 4.3 | 112 | 93 | 50 | 0 | 7 | 4 | 1 |
| DC WASHINGTON | 57 | 39 | 72 | 32 | 48 | 13 | .8 | .2 | .6 | 5.3 | 86 | 3.1 | 102 | 89 | 47 | 0 | 1 | 2 | 1 |
| FL APALACHICOLA | 68 | 54 | 73 | 45 | 61 | 8 | .2 | -.6 | .2 | 9.6 | 129 | 2.4 | 62 | 97 | 71 | 0 | 0 | 1 | 0 |
| DAYTONA BEACH | 79 | 59 | 86 | 49 | 69 | 11 | .1 | -.5 | .1 | 5.4 | 111 | 1.5 | 57 | 99 | 60 | 0 | 0 | 1 | 0 |
| JACKSONVILLE | 77 | 53 | 86 | 42 | 65 | 11 | .3 | -.5 | .3 | 5.2 | 90 | 1.8 | 56 | 98 | 55 | 0 | 0 | 3 | 0 |
| KEY WEST | 82 | 73 | 83 | 69 | 77 | 8 | T | -.5 | T | 1.9 | 51 | T | 0 | 92 | 72 | 0 | 0 | 0 | 0 |
| MIAMI | 83 | 72 | 85 | 71 | 78 | 11 | .3 | -.2 | .1 | 1.0 | 24 | .4 | 17 | 90 | 62 | 0 | 0 | 3 | 0 |
| ORLANDO | 82 | 62 | 86 | 52 | 72 | 12 | .2 | -.5 | .2 | 4.7 | 109 | .2 | 9 | 99 | 54 | 0 | 0 | 1 | 0 |
| TALLAHASSEE | 75 | 51 | 79 | 36 | 63 | 11 | 1.0 | -.2 | .6 | 8.3 | 85 | 3.7 | 71 | 99 | 65 | 0 | 0 | 3 | 1 |
| TAMPA | 82 | 63 | 85 | 54 | 73 | 13 | T | -.6 | T | 5.3 | 116 | .6 | 23 | 98 | 58 | 0 | 0 | 0 | 0 |
| WEST PALM BEACH | 83 | 71 | 85 | 67 | 77 | 12 | .4 | -.3 | .3 | 3.2 | 60 | 1.2 | 40 | 91 | 62 | 0 | 0 | 2 | 0 |
| GA ATLANTA | 66 | 42 | 75 | 31 | 54 | 12 | .2 | -.8 | .2 | 12.9 | 135 | 8.4 | 156 | 88 | 49 | 0 | 1 | 1 | 0 |
| AUGUSTA | 73 | 40 | 81 | 28 | 56 | 11 | .2 | -.8 | .2 | 7.4 | 98 | 2.7 | 62 | 97 | 46 | 0 | 2 | 1 | 0 |
| MACON | 70 | 40 | 78 | 28 | 55 | 8 | .2 | -.8 | .1 | 13.5 | 153 | 4.7 | 99 | 96 | 50 | 0 | 2 | 2 | 0 |
| SAVANNAH | 72 | 48 | 83 | 38 | 60 | 11 | .1 | -.7 | .1 | 9.1 | 147 | 3.9 | 115 | 95 | 53 | 0 | 0 | 3 | 0 |
| HI HILO | 79 | 67 | 80 | 65 | 73 | 2 | 7.4 | 4.8 | 3.1 | 31.2 | 133 | 27.6 | 269 | 97 | 68 | 0 | 0 | 7 | 4 |
| HONOLULU | 81 | 70 | 82 | 69 | 76 | 3 | T | -.7 | T | 5.6 | 75 | 4.3 | 104 | 82 | 56 | 0 | 0 | 1 | 0 |
| KAHULUI | 79 | 69 | 80 | 67 | 74 | 3 | .1 | -.8 | 0 | 8.4 | 117 | 4.2 | 96 | 92 | 65 | 0 | 0 | 2 | 0 |
| LIHUE | 77 | 71 | 78 | 70 | 74 | 3 | .6 | -.6 | .3 | 12.3 | 101 | 9.4 | 141 | 88 | 73 | 0 | 0 | 3 | 0 |
| ID BOISE | 42 | 29 | 45 | 21 | 35 | 3 | .2 | -.1 | .1 | 1.0 | 33 | .9 | 52 | 91 | 49 | 0 | 6 | 5 | 0 |
| LEWISTON | 48 | 38 | 53 | 35 | 43 | 9 | T | -.2 | T | .6 | 23 | .5 | 30 | 68 | 36 | 0 | 0 | 1 | 0 |
| POCATELLO | 37 | 22 | 44 | 15 | 30 | 4 | .1 | -.2 | 0 | .6 | 30 | .6 | 47 | 89 | 47 | 0 | 7 | 4 | 0 |
| IL CHICAGO | 42 | 24 | 52 | 16 | 33 | 12 | .3 | 0 | .2 | 2.9 | 72 | 2.5 | 143 | 87 | 56 | 0 | 7 | 3 | 0 |
| MOLINE | 41 | 20 | 48 | 12 | 30 | 10 | .1 | -.2 | .1 | 2.7 | 74 | 1.9 | 111 | 90 | 57 | 0 | 7 | 3 | 0 |
| PEORIA | 43 | 24 | 50 | 15 | 34 | 11 | .9 | -.6 | .9 | 3.5 | 93 | 2.6 | 152 | 92 | 62 | 0 | 6 | 2 | 1 |
| QUINCY | 44 | 27 | 54 | 21 | 36 | 11 | 1.2 | -.9 | 1.1 | 2.9 | 91 | 2.2 | 150 | 87 | 55 | 0 | 7 | 3 | 1 |
| ROCKFORD | 37 | 19 | 45 | 12 | 28 | 9 | .1 | -.1 | .1 | 2.4 | 70 | 1.9 | 125 | 90 | 60 | 0 | 7 | 3 | 0 |
| SPRINGFIELD | 45 | 27 | 53 | 17 | 36 | 11 | 1.0 | -.7 | 1.0 | 3.0 | 79 | 2.5 | 146 | 91 | 59 | 0 | 4 | 3 | 1 |
| IN EVANSVILLE | 51 | 35 | 61 | 28 | 43 | 12 | 2.1 | 1.5 | .6 | 7.0 | 104 | 5.6 | 171 | 98 | 68 | 0 | 4 | 5 | 2 |
| FORT WAYNE | 40 | 25 | 47 | 18 | 33 | 9 | 1.2 | .8 | .6 | 4.7 | 99 | 3.5 | 153 | 97 | 72 | 0 | 6 | 4 | 1 |
| INDIANAPOLIS | 44 | 29 | 55 | 21 | 37 | 10 | 1.7 | 1.2 | .7 | 5.4 | 93 | 3.3 | 115 | 96 | 66 | 0 | 4 | 4 | 1 |
| SOUTH BEND | 41 | 26 | 47 | 20 | 33 | 10 | .6 | .1 | .5 | 4.7 | 85 | 2.9 | 109 | 90 | 51 | 0 | 6 | 2 | 1 |
| IA DES MOINES | 42 | 19 | 53 | 16 | 30 | 10 | .2 | 0 | .2 | 2.2 | 107 | 1.7 | 156 | 80 | 51 | 0 | 7 | 2 | 0 |
| SIoux CITY | 37 | 13 | 51 | 8 | 25 | 7 | .1 | -.1 | .1 | .8 | 57 | .4 | 58 | 83 | 46 | 0 | 7 | 2 | 0 |
| WATERLOO | 37 | 15 | 42 | 11 | 26 | 11 | .1 | -.1 | .1 | .8 | 41 | .6 | 69 | 82 | 56 | 0 | 7 | 2 | 0 |
| KS CONCORDIA | 43 | 21 | 58 | 15 | 32 | 5 | .1 | -.1 | .1 | .8 | 55 | .3 | 49 | 83 | 44 | 0 | 7 | 2 | 0 |
| DODGE CITY | 42 | 21 | 57 | 12 | 31 | 0 | T | -.1 | T | 2.1 | 215 | 1.6 | 364 | 85 | 56 | 0 | 6 | 0 | 0 |
| GOODLAND | 34 | 15 | 45 | 9 | 25 | -4 | T | -.1 | T | 1.0 | 125 | .7 | 179 | 93 | 62 | 0 | 7 | 0 | 0 |
| TOPEKA | 44 | 21 | 58 | 14 | 32 | 4 | .5 | -.3 | .4 | 2.4 | 105 | 1.7 | 179 | 92 | 50 | 0 | 7 | 2 | 0 |
| WICHITA | 46 | 24 | 62 | 17 | 35 | 4 | .3 | .1 | .1 | 2.5 | 144 | 2.0 | 279 | 84 | 50 | 0 | 5 | 3 | 0 |
| KY BOWLING GREEN | 55 | 35 | 67 | 24 | 45 | 10 | 5.5 | 4.5 | 2.1 | 10.5 | 110 | 8.3 | 166 | 99 | 64 | 0 | 3 | 5 | 4 |
| LEXINGTON | 53 | 35 | 62 | 25 | 44 | 12 | 2.2 | 1.4 | 1.2 | 6.6 | 86 | 4.8 | 124 | 93 | 61 | 0 | 4 | 5 | 1 |
| LOUISVILLE | 52 | 34 | 63 | 24 | 43 | 10 | 2.2 | 1.5 | .8 | 6.5 | 91 | 5.0 | 137 | 95 | 55 | 0 | 4 | 5 | 1 |
| LA ALEXANDRIA | 72 | 51 | 80 | 43 | 61 | 11 | 2.3 | 1.2 | 1.2 | 15.9 | 162 | 13.9 | 282 | 86 | 54 | 0 | 0 | 4 | 2 |
| BATON ROUGE | 74 | 52 | 82 | 42 | 63 | 12 | 1.9 | -.7 | .9 | 18.5 | 184 | 12.3 | 241 | 95 | 54 | 0 | 0 | 4 | 2 |
| LAKE CHARLES | 69 | 53 | 74 | 45 | 61 | 10 | 2.6 | 1.6 | 2.1 | 11.3 | 113 | 9.2 | 184 | 99 | 69 | 0 | 0 | 5 | 1 |
| NEW ORLEANS | 72 | 53 | 81 | 42 | 63 | 10 | 1.0 | -.2 | .6 | 14.3 | 133 | 8.0 | 145 | 99 | 64 | 0 | 0 | 3 | 1 |

Based on 1951-80 normals.

Weather Data for the Week Ending February 3, 1990

| STATES AND STATIONS | TEMPERATURE °F | | | | | | PRECIPITATION | | | | | | | | RELATIVE HUMIDITY, PERCENT | | NUMBER OF DAYS | | | | |
|---------------------------|--------------------|--------------------|-----------------|----------------|---------|--------------------------|----------------------|--------------------------|-----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|--------------------|----------------------------|----------------|----------------|---------------------|---------------------|--|--|
| | AVERAGE MAXIMUM | AVERAGE MINIMUM | EXTREME HIGH | EXTREME LOW | AVERAGE | DEPARTURE FROM NORMAL | WEEKLY TOTAL, IN. | DEPARTURE FROM NORMAL | GREATEST IN 24-HOUR, IN. | TOTAL, IN., SINCE Dec 1 | PCT. NORMAL SINCE Dec 1 | TOTAL, IN., SINCE JAN 1 | PCT. NORMAL SINCE JAN 1 | AVERAGE MAXIMUM | AVERAGE MINIMUM | TEMPERATURE °F | | PRECIPITATION | | | |
| | | | | | | | | | | | | | | | | 90 AND ABOVE | 32 AND BELOW | .01 INCH OR MORE | .50 INCH OR MORE | | |
| SHREVEPORT | 87 | 44 | 71 | 35 | 56 | 9 | 5.0 | 4.2 | 1.9 | 15.0 | 181 | 13.2 | 289 | 96 | 57 | 0 | 0 | 3 | 3 | | |
| ME CARIBOU | 24 | 7 | 42 | -14 | 16 | 5 | .9 | .4 | .8 | 6.3 | 110 | 3.7 | 145 | 88 | 57 | 0 | 0 | 7 | 2 | | |
| PORTLAND | 39 | 23 | 50 | 13 | 31 | 10 | 1.7 | .9 | .8 | 5.6 | 64 | 3.4 | 83 | 94 | 46 | 0 | 0 | 7 | 3 | | |
| MD BALTIMORE | 55 | 36 | 62 | 27 | 45 | 13 | 1.1 | .5 | .9 | 5.7 | 85 | 3.6 | 109 | 93 | 53 | 0 | 0 | 2 | 2 | | |
| SALISBURY | 57 | 38 | 66 | 27 | 48 | 13 | 1.2 | .4 | 1.1 | 7.2 | 97 | 4.6 | 124 | 94 | 54 | 0 | 0 | 2 | 2 | | |
| MA BOSTON | 45 | 31 | 53 | 25 | 38 | 9 | 1.8 | .9 | 1.2 | 4.8 | 55 | 4.1 | 93 | 97 | 55 | 0 | 0 | 4 | 4 | | |
| CHATHAM | 44 | 34 | 53 | 27 | 39 | 9 | 1.1 | .1 | .6 | 7.4 | 76 | 5.6 | 116 | 89 | 55 | 0 | 0 | 2 | 3 | | |
| MI ALPENA | 34 | 10 | 43 | 2 | 22 | 5 | .1 | -2 | .1 | 3.9 | 103 | 2.5 | 134 | 85 | 53 | 0 | 0 | 7 | 2 | | |
| DETROIT | 37 | 24 | 44 | 19 | 31 | 7 | .8 | .4 | .5 | 3.8 | 85 | 2.6 | 128 | 94 | 69 | 0 | 0 | 7 | 3 | | |
| FLINT | 37 | 21 | 45 | 17 | 29 | 8 | .4 | .1 | .1 | 3.2 | 86 | 2.2 | 131 | 92 | 55 | 0 | 0 | 7 | 3 | | |
| GRAND RAPIDS | 38 | 21 | 48 | 19 | 30 | 8 | .1 | -3 | .1 | 3.5 | 74 | 2.5 | 117 | 84 | 49 | 0 | 0 | 7 | 3 | | |
| HOUGHTON LAKE | 33 | 9 | 40 | 3 | 21 | 4 | .1 | -2 | .1 | 2.2 | 64 | 1.7 | 102 | 83 | 52 | 0 | 0 | 7 | 1 | | |
| LANSING | 38 | 21 | 46 | 18 | 29 | 9 | .3 | 0 | .1 | 2.6 | 61 | 1.9 | 104 | 80 | 52 | 0 | 0 | 7 | 3 | | |
| MARQUETTE | 27 | 4 | 38 | -4 | 15 | 3 | .3 | -3 | .1 | 4.5 | 96 | 1.9 | 86 | 91 | 71 | 0 | 0 | 7 | 3 | | |
| MUSKEGON | 38 | 21 | 44 | 16 | 29 | 7 | .2 | -3 | .1 | 4.4 | 86 | 2.5 | 100 | 83 | 50 | 0 | 0 | 7 | 2 | | |
| SAULT ST. MARIE | 27 | 5 | 38 | -3 | 16 | 3 | .8 | -3 | .6 | 4.9 | 100 | 3.2 | 134 | 86 | 50 | 0 | 0 | 7 | 5 | | |
| MN ALEXANDRIA | 24 | 1 | 42 | -9 | 13 | 6 | .1 | -1 | .1 | 4 | 25 | .2 | 25 | 86 | 54 | 0 | 0 | 7 | 2 | | |
| DULUTH | 24 | 0 | 34 | -10 | 12 | 4 | T | -2 | T | 1.2 | 46 | .6 | 44 | 88 | 54 | 0 | 0 | 7 | 2 | | |
| INT'L FALLS | 18 | -10 | 35 | -18 | 4 | 2 | .1 | -1 | 0 | .8 | 43 | .5 | 53 | 84 | 54 | 0 | 0 | 7 | 2 | | |
| MINNEAPOLIS | 32 | 11 | 41 | 5 | 21 | 9 | .1 | -1 | .1 | .6 | 36 | .2 | 23 | 76 | 50 | 0 | 0 | 7 | 1 | | |
| ROCHESTER | 32 | 9 | 36 | 1 | 20 | 9 | .1 | 0 | .1 | 1.1 | 64 | .7 | 79 | 82 | 62 | 0 | 0 | 7 | 2 | | |
| MS GREENWOOD | 66 | 45 | 77 | 31 | 56 | 12 | 2.8 | 1.7 | 1.1 | 12.8 | 116 | 9.4 | 166 | 94 | 56 | 0 | 0 | 1 | 4 | | |
| JACKSON | 72 | 46 | 81 | 32 | 59 | 13 | 3.0 | 2.0 | 2.2 | 18.7 | 173 | 14.5 | 267 | 98 | 51 | 0 | 0 | 1 | 4 | | |
| MEHIDIAN | 71 | 45 | 84 | 30 | 58 | 12 | 2.0 | 1.0 | 1.3 | 18.9 | 170 | 12.2 | 224 | 96 | 51 | 0 | 0 | 2 | 3 | | |
| MO CAPE GIRARDEAU | 53 | 37 | 62 | 28 | 45 | 11 | 2.6 | 2.0 | 1.4 | 9.3 | 135 | 7.8 | 244 | 99 | 65 | 0 | 0 | 3 | 5 | | |
| COLUMBIA | 48 | 27 | 60 | 20 | 38 | 8 | .8 | .4 | .6 | 3.4 | 87 | 2.6 | 137 | 87 | 50 | 0 | 0 | 6 | 4 | | |
| KANSAS CITY | 45 | 23 | 60 | 21 | 34 | 5 | .5 | .2 | .4 | 2.2 | 80 | 1.7 | 127 | 88 | 50 | 0 | 0 | 7 | 2 | | |
| SAINT LOUIS | 50 | 32 | 60 | 25 | 41 | 11 | 1.1 | .7 | 1.0 | 3.2 | 78 | 2.5 | 131 | 82 | 49 | 0 | 0 | 4 | 3 | | |
| SPRINGFIELD | 53 | 29 | 61 | 20 | 41 | 8 | 1.8 | 1.4 | 1.2 | 7.7 | 178 | 6.9 | 390 | 86 | 53 | 0 | 0 | 4 | 4 | | |
| NT BILLINGS | 29 | 8 | 48 | -8 | 19 | -5 | T | -2 | T | 1.6 | 89 | .3 | 28 | 70 | 43 | 0 | 0 | 7 | 2 | | |
| GLASGOW | 20 | -4 | 46 | -23 | 8 | -2 | .1 | 0 | 0 | .7 | 93 | .3 | 80 | 81 | 52 | 0 | 0 | 7 | 2 | | |
| GREAT FALLS | 27 | 5 | 50 | -15 | 16 | -6 | .1 | -1 | .1 | 1.4 | 77 | .3 | 27 | 78 | 48 | 0 | 0 | 6 | 3 | | |
| HAVRE | 21 | -3 | 43 | -18 | 9 | -6 | T | -1 | T | 1.0 | 88 | T | 6 | 77 | 52 | 0 | 0 | 7 | 0 | | |
| HELENA | 29 | 4 | 47 | -11 | 17 | -5 | .1 | -1 | .1 | 1.0 | 71 | .5 | 65 | 78 | 44 | 0 | 0 | 7 | 2 | | |
| KALISPELL | 31 | 15 | 44 | 2 | 23 | 1 | .7 | .4 | .5 | 3.9 | 118 | 1.8 | 101 | 88 | 56 | 0 | 0 | 7 | 4 | | |
| MILES CITY | 28 | 4 | 48 | -10 | 16 | 0 | T | -1 | T | .8 | 64 | .1 | 16 | 73 | 44 | 0 | 0 | 7 | 1 | | |
| MISSOULA | 39 | 23 | 47 | 17 | 31 | 7 | .2 | -1 | .1 | 1.6 | 58 | 1.0 | 64 | 93 | 48 | 0 | 0 | 7 | 3 | | |
| NE GRAND ISLAND | 37 | 16 | 52 | 5 | 26 | 4 | .4 | .3 | .3 | 1.1 | 95 | .7 | 135 | 83 | 42 | 0 | 0 | 7 | 2 | | |
| LINCOLN | 41 | 17 | 58 | 13 | 29 | 8 | .1 | -1 | .1 | 1.1 | 81 | .5 | 74 | 81 | 39 | 0 | 0 | 7 | 1 | | |
| NORFOLK | 35 | 12 | 50 | 6 | 24 | 5 | .2 | -1 | .1 | 1.6 | 141 | .9 | 162 | 82 | 47 | 0 | 0 | 7 | 2 | | |
| NORTH PLATTE | 35 | 12 | 44 | 8 | 23 | 0 | T | -1 | T | .6 | 68 | .3 | 66 | 92 | 51 | 0 | 0 | 7 | 0 | | |
| OMAHA | 39 | 18 | 58 | 14 | 29 | 7 | .2 | 0 | .2 | 1.3 | 85 | .8 | 101 | 74 | 46 | 0 | 0 | 7 | 1 | | |
| SCOTTSBLUFF | 42 | 15 | 49 | 8 | 28 | 2 | T | -1 | T | 1.2 | 127 | .6 | 123 | 83 | 35 | 0 | 0 | 7 | 0 | | |
| VALENTINE | 35 | 9 | 51 | 2 | 22 | 2 | T | -1 | T | .2 | 31 | T | 13 | 77 | 38 | 0 | 0 | 7 | 0 | | |
| NV ELY | 38 | 9 | 44 | -3 | 23 | -3 | .3 | .2 | .1 | .7 | 48 | .7 | 90 | 85 | 36 | 0 | 0 | 7 | 3 | | |
| LAS VEGAS | 56 | 36 | 64 | 30 | 46 | -1 | T | -1 | T | 1.2 | 146 | 1.2 | 226 | 63 | 24 | 0 | 0 | 3 | 1 | | |
| RENO | 50 | 26 | 57 | 16 | 38 | 3 | .1 | -1 | .1 | .6 | 24 | .6 | 45 | 79 | 26 | 0 | 0 | 6 | 1 | | |
| WINNEMUCCA | 42 | 22 | 49 | 7 | 32 | 0 | .2 | 0 | .2 | .8 | 44 | .6 | 68 | 83 | 39 | 0 | 0 | 6 | 1 | | |
| NH CONCORD | 39 | 21 | 48 | 13 | 30 | 10 | 1.9 | 1.3 | .7 | 4.3 | 66 | 3.4 | 110 | 97 | 53 | 0 | 0 | 7 | 4 | | |
| NJ ATLANTIC CITY | 55 | 34 | 61 | 22 | 45 | 13 | .6 | -2 | .4 | 4.5 | 61 | 2.7 | 71 | 94 | 51 | 0 | 0 | 2 | 2 | | |
| NM ALBUQUERQUE | 47 | 22 | 56 | 13 | 34 | -3 | .2 | .2 | .2 | .7 | 81 | .5 | 110 | 72 | 39 | 0 | 0 | 6 | 1 | | |
| CLOVIS | 54 | 26 | 60 | 16 | 40 | 2 | T | -1 | T | 1.5 | 142 | 1.0 | 204 | 79 | 23 | 0 | 0 | 5 | 0 | | |
| ROSWELL | 61 | 29 | 70 | 19 | 45 | 4 | T | -1 | T | .5 | 69 | .5 | 122 | 63 | 18 | 0 | 0 | 4 | 1 | | |
| NY ALBANY | 37 | 18 | 47 | 10 | 28 | 7 | 2.0 | 1.5 | 1.3 | 5.0 | 90 | 4.3 | 164 | 93 | 56 | 0 | 0 | 7 | 4 | | |
| BINGHAMTON | 37 | 24 | 48 | 17 | 30 | 9 | 2.3 | 1.7 | 1.6 | 5.8 | 99 | 4.0 | 145 | 93 | 61 | 0 | 0 | 7 | 5 | | |
| BUFFALO | 38 | 23 | 50 | 17 | 30 | 7 | 1.5 | .9 | .8 | 6.1 | 92 | 3.8 | 116 | 94 | 64 | 0 | 0 | 7 | 3 | | |
| NEW YORK | 48 | 35 | 55 | 31 | 42 | 10 | 1.1 | .4 | .9 | 5.0 | 70 | 4.1 | 120 | 93 | 53 | 0 | 0 | 2 | 4 | | |
| ROCHESTER | 39 | 21 | 50 | 16 | 30 | 7 | 1.1 | .5 | .6 | 3.7 | 72 | 2.1 | 82 | 95 | 61 | 0 | 0 | 7 | 3 | | |
| SYRACUSE | 39 | 19 | 50 | 11 | 29 | 7 | 1.9 | 1.3 | .9 | 5.0 | 84 | 2.9 | 103 | 95 | 59 | 0 | 0 | 7 | 5 | | |
| NC ASHEVILLE | 62 | 32 | 70 | 23 | 47 | 10 | 1.3 | .5 | .8 | 7.4 | 111 | 4.1 | 117 | 94 | 42 | 0 | 0 | 4 | 3 | | |
| CHARLOTTE | 65 | 41 | 75 | 31 | 53 | 12 | .2 | -6 | .1 | 7.7 | 102 | 3.9 | 94 | 89 | 41 | 0 | 0 | 2 | 2 | | |
| GREENSBORO | 61 | 36 | 71 | 29 | 49 | 11 | .4 | -4 | .4 | 7.3 | 101 | 3.7 | 97 | 89 | 48 | 0 | 0 | 4 | 2 | | |
| HATTERAS | 66 | 49 | 73 | 35 | 58 | 13 | .9 | -2 | .9 | 10.8 | 111 | 4.7 | 89 | 99 | 64 | 0 | 0 | 0 | 3 | | |
| NEW BERN | 70 | 45 | 79 | 32 | 58 | 13 | .7 | -3 | .4 | 8.8 | 108 | 2.7 | 61 | 94 | 48 | 0 | 0 | 1 | 2 | | |
| RALEIGH | 67 | 40 | 74 | 33 | 53 | 14 | .3 | -5 | .3 | 5.9 | 84 | 3.1 | 78 | 91 | 46 | 0 | 0 | 0 | 2 | | |
| WILMINGTON | 72 | 46 | 82 | 34 | 59 | 13 | 1.3 | .4 | .7 | 9.9 | 133 | 3.0 | 75 | 97 | 50 | 0 | 0 | 0 | 3 | | |
| ND BISMARCK | 24 | -2 | 46 | -14 | 11 | 2 | T | -1 | T | .6 | 56 | .3 | 48 | 82 | 51 | 0 | 0 | 7 | 1 | | |
| FARGO | 19 | -2 | 39 | -10 | 9 | 3 | T | -1 | .1 | .4 | 31 | .1 | 22 | 85 | 53 | 0 | 0 | 7 | 1 | | |
| GRAND FORKS | 13 | -8 | 36 | -17 | 2 | -1 | T | -1 | T | .4 | 29 | .2 | 25 | 81 | 57 | 0 | 0 | 7 | 2 | | |
| WILLISTON | 20 | -8 | 42 | -32 | 6 | -3 | .2 | .1 | .1 | .8 | 73 | .4 | 65 | 78 | 47 | 0 | 0 | 7 | 3 | | |
| OH AKRON-CANTON | 41 | 27 | 48 | 23 | 34 | 9 | 1.5 | 1.0 | .5 | 5.2 | 95 | 3.2 | 114 | 95 | 64 | 0 | 0 | 7 | 4 | | |
| CINCINNATI | 48 | 31 | 60 | 22 | 40 | 11 | 1.5 | .8 | .6 | 5.3 | 83 | 3.4 | 99 | 93 | 61 | 0 | 0 | 4 | 5 | | |
| CLEVELAND | 40 | 27 | 46 | 19 | 34 | 8 | 1.7 | 1.2 | .7 | 5.3 | 98 | 3.6 | 134 | 93 | 64 | 0 | 0 | 6 | 4 | | |
| COLUMBUS | 45 | 28 | 57 | 19 | 37 | 9 | 1.7 | 1.1 | .6 | 5.2 | 94 | 3.4 | 116 | 99 | 68 | 0 | 0 | 6 | 5 | | |

Weather Data for the Week Ending February 3, 1990

| STATES AND STATIONS | TEMPERATURE °F | | | | | | PRECIPITATION | | | | | | | RELATIVE HUMIDITY, PERCENT | | NUMBER OF DAYS | | | |
|---------------------------|--------------------|--------------------|-----------------|----------------|---------|--------------------------|----------------------|--------------------------|-----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|--------------------|----------------|--------------|---------------------|---------------------|
| | AVERAGE MAXIMUM | AVERAGE MINIMUM | EXTREME HIGH | EXTREME LOW | AVERAGE | DEPARTURE FROM NORMAL | WEEKLY TOTAL, IN. | DEPARTURE FROM NORMAL | GREATEST IN 24-HOUR, IN. | TOTAL, IN., SINCE DEC 1 | PCT. NORMAL SINCE DEC 1 | TOTAL, IN., SINCE JAN 1 | PCT. NORMAL SINCE JAN 1 | AVERAGE MAXIMUM | AVERAGE MINIMUM | TEMPERATURE °F | | | |
| | | | | | | | | | | | | | | | | 90 AND ABOVE | 32 AND BELOW | .01 INCH OR MORE | .50 INCH OR MORE |
| DAYTON | 42 | 28 | 55 | 18 | 35 | 8 | 1.7 | 1.2 | .5 | 5.4 | 103 | 3.6 | 128 | 97 | 68 | 0 | 6 | 4 | 0 |
| TOLEDO | 39 | 22 | 46 | 13 | 31 | 7 | .9 | .5 | .5 | 4.3 | 90 | 3.0 | 136 | 94 | 67 | 0 | 7 | 4 | 0 |
| YOUNGSTOWN | 42 | 27 | 50 | 25 | 34 | 11 | 1.6 | 1.0 | .6 | 4.7 | 84 | 3.3 | 114 | 93 | 62 | 0 | 7 | 4 | 1 |
| OK OKLAHOMA CITY | 52 | 32 | 63 | 24 | 42 | 5 | .8 | .5 | .7 | 2.9 | 130 | 2.6 | 239 | 78 | 48 | 0 | 3 | 2 | 1 |
| TULSA | 53 | 32 | 65 | 27 | 42 | 6 | .2 | -.1 | .2 | 3.3 | 101 | 3.1 | 205 | 82 | 50 | 0 | 4 | 2 | 0 |
| OR ASTORIA | 48 | 40 | 53 | 36 | 44 | 2 | 4.2 | 2.1 | 1.5 | 24.8 | 107 | 17.4 | 149 | 92 | 63 | 0 | 0 | 7 | 3 |
| BURNS | 38 | 16 | 43 | 7 | 27 | -3 | .4 | .1 | .2 | .8 | 24 | .7 | 42 | 96 | 55 | 0 | 7 | 4 | 0 |
| MEDFORD | 47 | 31 | 51 | 25 | 39 | -1 | .8 | .1 | .3 | 3.8 | 54 | 3.2 | 86 | 93 | 54 | 0 | 4 | 6 | 0 |
| PENDLETON | 49 | 36 | 54 | 34 | 43 | 7 | .2 | -.2 | .1 | 1.0 | 28 | .8 | 41 | 74 | 39 | 0 | 0 | 0 | 0 |
| PORTLAND | 48 | 40 | 54 | 36 | 44 | 3 | 2.7 | 1.5 | 1.2 | 11.9 | 91 | 8.8 | 132 | 91 | 68 | 0 | 0 | 2 | 2 |
| SALEM | 47 | 39 | 52 | 35 | 43 | 2 | 3.9 | 2.6 | 1.5 | 14.1 | 96 | 10.2 | 133 | 93 | 70 | 0 | 0 | 0 | 3 |
| PA ALLENTOWN | 47 | 30 | 53 | 24 | 38 | 11 | 1.9 | 1.1 | 1.7 | 6.0 | 81 | 4.7 | 128 | 97 | 50 | 0 | 6 | 7 | 1 |
| ERIE | 40 | 26 | 48 | 25 | 33 | 9 | 1.3 | .9 | .7 | 6.4 | 109 | 3.3 | 126 | 95 | 60 | 0 | 7 | 4 | 3 |
| HARRISBURG | 48 | 31 | 55 | 24 | 40 | 10 | 2.0 | 1.3 | 1.7 | 4.9 | 76 | 3.6 | 111 | 93 | 49 | 0 | 4 | 3 | 1 |
| PHILADELPHIA | 54 | 37 | 59 | 30 | 45 | 14 | .8 | .1 | .7 | 5.8 | 85 | 4.1 | 118 | 92 | 50 | 0 | 2 | 3 | 1 |
| PITTSBURGH | 47 | 28 | 56 | 22 | 38 | 11 | 1.5 | .9 | 1.0 | 6.0 | 105 | 3.6 | 115 | 94 | 63 | 0 | 7 | 5 | 1 |
| SCRANTON | 42 | 28 | 51 | 21 | 35 | 10 | 1.9 | 1.4 | 1.4 | 5.2 | 106 | 4.2 | 173 | 91 | 54 | 0 | 5 | 4 | 1 |
| R1 PROVIDENCE | 46 | 30 | 57 | 25 | 38 | 10 | 2.0 | 1.1 | 1.5 | 6.7 | 76 | 5.0 | 113 | 97 | 49 | 0 | 5 | 3 | 1 |
| SC CHARLESTON | 72 | 50 | 82 | 40 | 61 | 13 | .1 | -.7 | .1 | 8.8 | 131 | 4.0 | 110 | 98 | 56 | 0 | 0 | 3 | 0 |
| COLUMBIA | 74 | 42 | 84 | 31 | 58 | 12 | .2 | -.8 | .2 | 7.7 | 93 | 2.4 | 51 | 98 | 43 | 0 | 3 | 2 | 0 |
| FLORENCE | 74 | 46 | 84 | 35 | 60 | 15 | .2 | -.7 | .2 | 6.4 | 93 | 2.0 | 52 | 95 | 44 | 0 | 0 | 1 | 0 |
| GREENVILLE | 64 | 37 | 70 | 26 | 50 | 9 | .4 | -.6 | .3 | 8.5 | 97 | 3.8 | 80 | 90 | 46 | 0 | 3 | 3 | 0 |
| SD ABERDEEN | 24 | 3 | 44 | -6 | 14 | 4 | .1 | -.1 | 0 | .3 | 29 | .2 | 27 | 86 | 55 | 0 | 7 | 3 | 0 |
| HURON | 29 | 6 | 48 | -3 | 18 | 5 | .1 | -.1 | .1 | .3 | 28 | .1 | 16 | 80 | 42 | 0 | 7 | 1 | 0 |
| RAPID CITY | 37 | 8 | 51 | 1 | 23 | 0 | T | -.1 | T | 1.0 | 120 | .2 | 50 | 80 | 40 | 0 | 7 | 1 | 0 |
| STOIX FALLS | 34 | 8 | 50 | 1 | 21 | 7 | T | -.2 | T | .3 | 27 | .1 | 14 | 79 | 42 | 0 | 7 | 0 | 0 |
| TN CHATTANOOGA | 62 | 37 | 71 | 28 | 49 | 10 | 3.8 | 2.7 | 2.3 | 13.8 | 127 | 10.1 | 177 | 97 | 54 | 0 | 4 | 2 | 2 |
| KNOXVILLE | 61 | 35 | 71 | 26 | 48 | 9 | 2.5 | 1.5 | 1.3 | 10.0 | 103 | 7.2 | 143 | 96 | 52 | 0 | 4 | 4 | 2 |
| MEMPHIS | 62 | 43 | 70 | 31 | 52 | 12 | 6.9 | 5.9 | 3.0 | 11.0 | 112 | 9.0 | 178 | 98 | 61 | 0 | 2 | 4 | 4 |
| NASHVILLE | 59 | 39 | 71 | 26 | 49 | 11 | 4.0 | 3.1 | 2.6 | 7.4 | 78 | 5.7 | 117 | 92 | 51 | 0 | 3 | 4 | 2 |
| TX ABILENE | 59 | 38 | 66 | 24 | 49 | 4 | .5 | .2 | .4 | 2.6 | 134 | 2.4 | 222 | 78 | 38 | 0 | 2 | 3 | 0 |
| AMARILLO | 54 | 25 | 64 | 17 | 39 | 3 | T | -.1 | T | 1.7 | 168 | 1.2 | 226 | 84 | 30 | 0 | 6 | 0 | 0 |
| AUSTIN | 69 | 44 | 74 | 36 | 57 | 7 | 1.5 | 1.0 | .9 | 2.4 | 63 | 2.3 | 125 | 93 | 44 | 0 | 0 | 4 | 1 |
| BEAUMONT | 70 | 52 | 75 | 45 | 61 | 8 | 2.3 | 1.3 | 2.0 | 12.0 | 127 | 8.8 | 193 | 99 | 67 | 0 | 0 | 3 | 1 |
| BROWNSVILLE | 77 | 60 | 81 | 52 | 69 | 8 | .4 | 0 | .3 | 2.3 | 92 | .6 | 41 | 94 | 58 | 0 | 0 | 3 | 0 |
| CORPUS CHRISTI | 74 | 55 | 80 | 38 | 65 | 9 | .1 | -.3 | .1 | 1.9 | 63 | .4 | 23 | 97 | 59 | 0 | 0 | 2 | 0 |
| DEL RIO | 68 | 44 | 75 | 31 | 56 | 3 | .3 | .1 | .2 | 1.1 | 97 | .8 | 135 | 67 | 29 | 0 | 1 | 3 | 0 |
| EL PASO | 59 | 32 | 69 | 23 | 45 | -1 | .1 | -.1 | T | .5 | 58 | .3 | 71 | 61 | 18 | 0 | 4 | 0 | 0 |
| PORT WORTH | 61 | 40 | 70 | 27 | 50 | 5 | 3.5 | 3.1 | 2.7 | 7.8 | 216 | 7.5 | 395 | 87 | 48 | 0 | 1 | 4 | 1 |
| GALVESTON | 67 | 54 | 72 | 46 | 61 | 7 | 1.5 | .9 | 1.3 | 4.2 | 62 | 3.6 | 109 | 97 | 69 | 0 | 0 | 3 | 1 |
| HOUSTON | 69 | 47 | 74 | 37 | 58 | 5 | 1.5 | .7 | .6 | 5.6 | 74 | 4.8 | 125 | 97 | 63 | 0 | 0 | 4 | 1 |
| LUBBOCK | 60 | 29 | 66 | 19 | 45 | 5 | T | -.1 | T | .7 | 87 | .4 | 90 | 76 | 21 | 0 | 5 | 1 | 0 |
| MIDLAND | 64 | 31 | 71 | 19 | 48 | 3 | T | -.1 | T | .5 | 52 | .3 | 71 | 71 | 19 | 0 | 4 | 1 | 0 |
| SAN ANGELO | 64 | 36 | 73 | 24 | 50 | 3 | .2 | 0 | .1 | 2.0 | 147 | 1.7 | 242 | 73 | 28 | 0 | 2 | 2 | 0 |
| SAN ANTONIO | 69 | 42 | 74 | 31 | 55 | 4 | .6 | .2 | .3 | 1.9 | 61 | 1.5 | 87 | 93 | 47 | 0 | 1 | 4 | 0 |
| VICTORIA | 71 | 50 | 77 | 37 | 61 | 8 | .4 | -.1 | .3 | 3.0 | 70 | 1.8 | 87 | 97 | 58 | 0 | 0 | 4 | 0 |
| WACO | 64 | 39 | 72 | 29 | 51 | 4 | 2.2 | 1.8 | 1.4 | 4.6 | 123 | 4.1 | 219 | 92 | 47 | 0 | 1 | 3 | 2 |
| WICHITA FALLS | 58 | 35 | 68 | 24 | 46 | 5 | .5 | .3 | .4 | 3.1 | 142 | 2.8 | 284 | 79 | 38 | 0 | 2 | 3 | 0 |
| UT CEDAR CITY | 38 | 17 | 45 | 0 | 28 | -4 | .4 | -.2 | .3 | 1.4 | 101 | 1.4 | 194 | 88 | 49 | 0 | 7 | 3 | 0 |
| SALT LAKE CITY | 41 | 26 | 50 | 20 | 33 | 2 | .2 | -.1 | .1 | .8 | 27 | .6 | 42 | 81 | 44 | 0 | 7 | 3 | 0 |
| VT BURLINGTON | 35 | 16 | 44 | 1 | 26 | 10 | .9 | .5 | .5 | 3.5 | 80 | 2.5 | 122 | 90 | 56 | 0 | 7 | 3 | 0 |
| VA NORFOLK | 64 | 41 | 76 | 34 | 53 | 13 | .1 | -.7 | .1 | 7.1 | 99 | 3.2 | 80 | 93 | 55 | 0 | 0 | 2 | 0 |
| RICHMOND | 62 | 38 | 71 | 30 | 50 | 13 | .5 | -.3 | .4 | 6.1 | 88 | 3.2 | 91 | 90 | 51 | 0 | 1 | 2 | 0 |
| ROANOKE | 61 | 34 | 75 | 26 | 48 | 12 | 1.0 | .3 | .8 | 5.6 | 92 | 3.0 | 95 | 86 | 42 | 0 | 3 | 2 | 1 |
| WA QUILLAYUTE | 45 | 36 | 49 | 33 | 41 | 1 | 6.4 | 3.4 | 1.3 | 28.8 | 87 | 20.1 | 128 | 99 | 72 | 0 | 0 | 7 | 6 |
| SEATTLE-TACOMA | 45 | 37 | 51 | 32 | 41 | 0 | 2.7 | 1.5 | .7 | 15.0 | 117 | 10.3 | 157 | 96 | 72 | 0 | 1 | 7 | 2 |
| SPOKANE | 38 | 29 | 43 | 24 | 33 | 5 | .9 | .4 | .3 | 3.7 | 72 | 2.8 | 103 | 96 | 65 | 0 | 6 | 7 | 0 |
| YAKIMA | 46 | 30 | 52 | 25 | 38 | 7 | .3 | .1 | .2 | 1.7 | 60 | 1.5 | 97 | 88 | 55 | 0 | 5 | 4 | 0 |
| WV BECKLEY | 56 | 37 | 67 | 25 | 47 | 16 | 2.1 | 1.3 | 1.0 | 6.4 | 93 | 4.0 | 106 | 80 | 41 | 0 | 3 | 3 | 2 |
| CHARLESTON | 58 | 37 | 73 | 29 | 47 | 14 | 1.8 | 1.0 | 1.2 | 5.0 | 70 | 3.4 | 89 | 97 | 47 | 0 | 3 | 4 | 2 |
| HUNTINGTON | 54 | 34 | 67 | 25 | 44 | 11 | 2.0 | 1.3 | 1.3 | 5.9 | 88 | 3.6 | 103 | 93 | 50 | 0 | 4 | 4 | 1 |
| PARKERSBURG | 51 | 31 | 59 | 22 | 41 | 9 | 2.5 | 1.9 | 1.6 | 5.4 | 92 | 3.8 | 120 | 96 | 56 | 0 | 5 | 5 | 1 |
| WI GREEN BAY | 33 | 10 | 40 | 4 | 22 | 7 | .2 | -.1 | .1 | 1.4 | 50 | .8 | 63 | 81 | 50 | 0 | 7 | 3 | 0 |
| LA CROSSE | 36 | 12 | 40 | 4 | 24 | 9 | .3 | -.1 | .3 | 1.5 | 71 | 1.0 | 101 | 82 | 52 | 0 | 7 | 1 | 0 |
| MADISON | 37 | 17 | 44 | 9 | 27 | 10 | .1 | -.1 | .1 | 2.0 | 73 | 1.7 | 145 | 81 | 55 | 0 | 7 | 3 | 0 |
| MILWAUKEE | 38 | 20 | 46 | 14 | 29 | 9 | .3 | 0 | .1 | 3.3 | 88 | 2.8 | 163 | 89 | 62 | 0 | 7 | 3 | 0 |
| WAUSAU | 31 | 7 | 37 | -1 | 19 | 7 | .1 | -.1 | .1 | 1.4 | 62 | 1.0 | 100 | 84 | 58 | 0 | 7 | 1 | 0 |
| WY CASPER | 41 | 15 | 45 | 14 | 28 | 4 | 0 | -.1 | 0 | .6 | 57 | .3 | 50 | 73 | 27 | 0 | 7 | 0 | 0 |
| CHEYENNE | 38 | 17 | 50 | 11 | 27 | 0 | .1 | 0 | .1 | 1.1 | 140 | .4 | 100 | 81 | 39 | 0 | 7 | 1 | 0 |
| LANDER | 40 | 18 | 43 | 14 | 29 | 7 | 0 | -.1 | 0 | .4 | 35 | T | 4 | 58 | 24 | 0 | 7 | 0 | 0 |
| SHERIDAN | 37 | 12 | 49 | 1 | 25 | 2 | T | -.2 | T | 2.1 | 137 | .4 | 54 | 76 | 37 | 0 | 7 | 1 | 0 |

January Weather and Crop Summary

Weather

HIGHLIGHTS: After experiencing one of the coldest Decembers on record, abnormally warm weather persisted over much of the United States. Except for the southwestern portion of the country, temperatures averaged from 4 to 16 degrees Fahrenheit above normal. Huron and Sioux Falls, SD, Rochester, MN, Portland, ME, Atlantic City, NJ, and Miami Beach, FL, reported their warmest January ever. Rochester also went through the entire month without any subzero temperatures for the first time in more than 100 years of record. Frontal systems brought heavy precipitation from the lower Mississippi Valley to the middle and northern Atlantic coast. A series of winter storms pounded the northern Pacific coast with strong winds and drenching rain. These storms also brought needed moisture into California and the Northwest. At mid-month, storms also gave much needed precipitation to parts of the hard red winter wheat region in the central and southern Plains. Dry conditions remained over portions of the northern and central Plains, upper Mississippi Valley, and southern Florida.

JANUARY 1-6: Above-normal temperatures prevailed over much of the country, following one of the coldest Decembers on record. The rising temperatures eliminated the snow cover over most of the winter wheat regions. The period began with a New Year's Day storm, causing moderate to heavy rain in the Atlantic Coast States, and a Pacific frontal system, bringing widespread rain to the West with snow in the higher elevations. On the 2nd, a frontal system spread heavy snow across the Southwest. The system then moved rapidly over the eastern two-thirds of the Nation before becoming stationary across the Southeast. Light to moderate rain fell from the Plains to the Ohio Valley, while persistent heavy to moderate rain covered the Delta and Southeast. Persistent rain showers also fell along the northern Pacific coast during the latter part of the period.

JANUARY 7-13: A series of storms pounded the northern Pacific Coast with torrential rain and high wind during the first part of the week. The persistent heavy rains caused severe flooding along the northern Oregon seaboard. A frontal system brought moderate to heavy precipitation from the Delta, across the Southeast, and up the middle Atlantic coast early in the week. Another system spread light to moderate rain and snow from the middle Mississippi Valley, across the Great Lakes, and into the Northeast during the latter part of the week. At week's end, much needed rain fell across California, with snow in the higher elevations. Dry conditions again prevailed over the Great Plains. Abnormally warm weather continued over the Nation, as record-high temperatures for the date were set in the western two-thirds of the country and in Florida. Temperatures were unseasonably high in the North Central States, which also had gusty winds throughout the week. On January 10, Devils Lake, ND, and Grand Island, Lincoln, and North Platte, NE, established record-high temperatures for the month.

JANUARY 14-20: Beneficial rain and snow continued over the Pacific Coast States during the first part of the week. On Tuesday, a storm system brought needed rain over the eastern portions of the hard

red winter wheat region in the central and southern Plains. The system then produced heavy rain in the lower and middle Mississippi Valley and the Ohio Valley. A second storm developed over the Southwest on Thursday, spreading heavy snow across the Rockies into the central Plains and western Corn Belt and heavy rain across the southern Plains into the Southeast. Parts of the western hard red winter wheat areas received over an inch of much welcomed precipitation. Thunderstorms inundated portions of eastern Texas with more than 9 inches of rain. This system then brought rain, snow, sleet, and freezing rain to the eastern third of the country at week's end. Unseasonably warm weather remained over much of the Nation. Numerous stations reported record-high temperatures for the date across the eastern two-thirds of the country.

JANUARY 21-27: Unseasonably mild weather continued to dominate much of the Nation. Temperatures were up to 21 degrees Fahrenheit above normal over the northern Plains, while record-high temperatures for the date were reported daily in Florida. At midweek, a major storm system developed in the Central United States and spread snow over the western Corn Belt and Great Lakes while drenching the Central Gulf Coast States with heavy rain. The storm caused near blizzard conditions in the Great Lakes States, with heavy snow and 60 mph winds. The system then soaked the Atlantic coast with moderate to heavy rain on Thursday and Friday. A series of winter storms brought high winds and widespread precipitation to the Pacific Northwest, while dry weather returned to California and the Great Plains.

JANUARY 28-31: A frontal system spread moderate to heavy precipitation from the Delta to the middle and northern Atlantic coast. Heavy snow blanketed northern New England. A winter storm pelted the northern Pacific coast with high wind and rain. Abnormally mild weather continued over much of the Nation at month's end.

Winter Wheat

Early in January, lack of snow cover and inadequate soil moisture concerned winter wheat producers in most of the Great Plains. Montana's crop was good to fair with adequate snow cover. In Texas, lack of moisture combined with wind and freezing nighttime temperatures stressed winter wheat in the High Plains. The third week of the month, precipitation fell in the Great Plains from Texas to central Nebraska, providing much needed snow cover and moisture. In portions of Texas and Oklahoma, many fields broke dormancy due to above-normal temperatures and rain. The last week of January, above-normal temperatures melted snow cover in the central and southern Great Plains and caused additional fields to break dormancy, leaving them vulnerable to freeze damage. Greenbugs were active in the Blacklands and central Texas. Montana's crop was good despite limited snow cover. In the Corn Belt, winter wheat was good with limited snow cover during January. Warm weather caused fields to begin greening late in the month. Winter wheat was good to fair in the Delta and Southeast during the month. In Oregon and Washington, crop condition was good to fair. Warm weather aided stand establishment for late seedings in the Columbia Basin of Oregon. In California, seeding continued throughout the month. Near the end of January, Russian wheat aphids were a problem, especially in the Sacramento Valley.

January Weather in Historical Perspective

January 1990 ranks as the Nation's warmest January on record (fig. 1), following the fourth coldest December (see *Weekly Weather and Crop Bulletin*, Jan. 9, 1990, Vol. 77, No. 1).¹ The standardized national precipitation indicates that January 1990 was near normal and ranks as the 38th driest January (fig. 2).

When the fourth coldest December and warmest January are averaged together, the result is a value slightly above the long-term mean (fig. 3). The smooth line in figure 3 is a 9-point binomial filter that averages out the short-term fluctuations and shows the longer-term variations. It indicates that the December-January average temperature has tended to be cooler than average during the last three decades, compared with the middle part of the century.

Table 1 lists the temperature and precipitation rankings for January 1990 for the nine climatically homogeneous regions (fig. 4). The most obvious feature is the unusual warmth across the country except the West and Southwest. January 1990 was the warmest in the West North Central region and second warmest in the East North Central region.

The precipitation pattern shows a large contrast between the unusually wet South and the unusually dry West North Central region.

January 1990 precipitation rankings on a State-by-State basis are shown in table 2. North and South Dakota and Wyoming have the 10th driest, or drier, January on record, while Alabama, Louisiana, Mississippi, and Oklahoma have the 10th wettest, or wetter, January on record.

The last 4 months in the primary hard red winter wheat region in the central and southern Plains (fig. 5) have been extraordinarily dry (fig. 6). Combined October-January precipitation across this region ranks 1989-90 as the seventh driest such period on record. The 1988-89 period was also very dry.

¹ The 1990 value is based on preliminary data, which has been shown to be within 0.26 degrees Fahrenheit of the final data over a 13-month period. This confidence interval is indicated in the figure by the +.

Figure 1

U.S. NATIONAL TEMPERATURE

JANUARY, 1895-1990

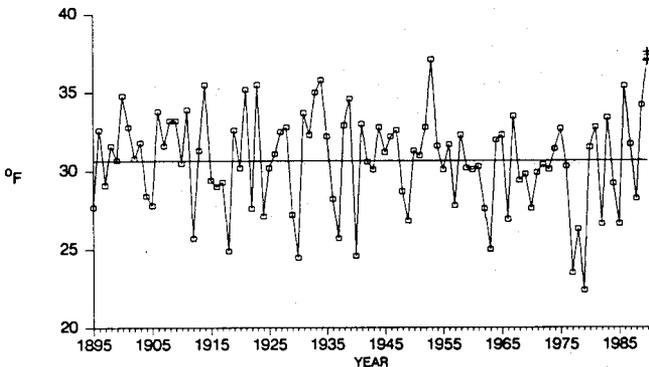


Figure 2

U.S. NATIONAL MEAN PRECIP INDEX

JANUARY, 1895-1990

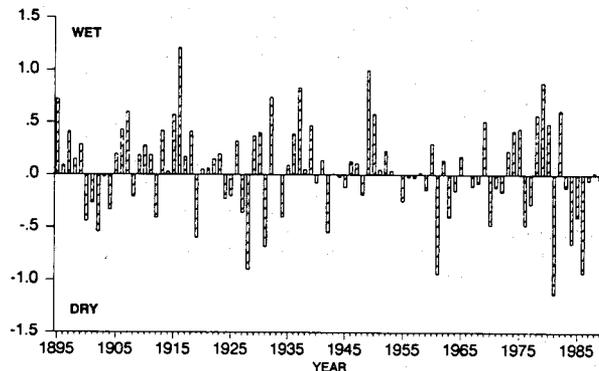


Figure 3

U.S. NATIONAL TEMPERATURE
DECEMBER-JANUARY, 1895-96 to 1989-90

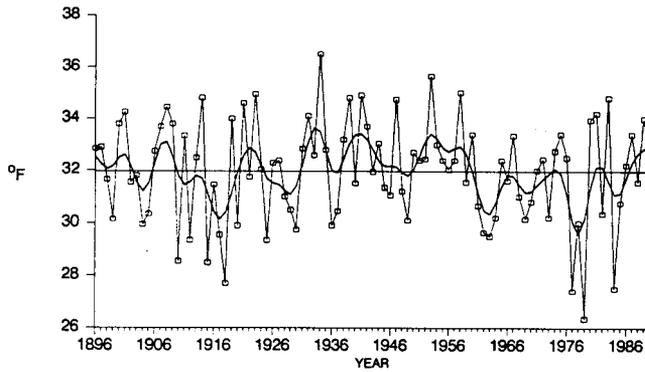


TABLE 1. TEMPERATURE AND PRECIPITATION RANKINGS FOR JAN 1990, BASED ON THE PERIOD 1895-1990. 1 = DRIEST/COLDEST, 96 = WETTEST/HOTTEST.

| REGION | PRECIPITATION | TEMPERATURE |
|--------------------|---------------|-------------|
| NATIONAL | 66 | 96 |
| NORTHEAST | 63 | 91 |
| EAST NORTH CENTRAL | 38 | 95 |
| CENTRAL | 48 | 93 |
| SOUTHEAST | 66 | 85 |
| WEST NORTH CENTRAL | 8 | 96 |
| SOUTH | 87 | 88 |
| SOUTHWEST | 36 | 71 |
| NORTHWEST | 66 | 92 |
| WEST | 42 | 58 |

Figure 4



TABLE 2. PRECIPITATION RANKINGS FOR JAN 1990, BASED ON THE PERIOD 1895 TO 1990. 1 = DRIEST, 96 = WETTEST.

| STATE | RANK | STATE | RANK | STATE | RANK | STATE | RANK |
|-------|------|-------|------|-------|------|-------|------|
| AL | 94 | IA | 44 | NE | 45 | RI | 39 |
| AZ | 44 | KS | 79 | NV | 32 | SC | 41 |
| AR | 63 | KY | 54 | NH | 33 | SD | 6 |
| CA | 49 | LA | 94 | NJ | 77 | TN | 38 |
| CO | 51 | ME | 72 | NM | 35 | TX | 64 |
| CT | 73 | MD | 61 | NY | 61 | UT | 39 |
| DE | 43 | MA | 39 | NC | 46 | VT | 48 |
| FL | 18 | MI | 49 | ND | 8 | VA | 41 |
| GA | 59 | MN | 24 | OH | 45 | WA | 72 |
| ID | 41 | MS | 91 | OK | 87 | WV | 38 |
| IL | 50 | MO | 69 | OR | 64 | WI | 53 |
| IN | 53 | MT | 28 | PA | 68 | WY | 3 |

Figure 5

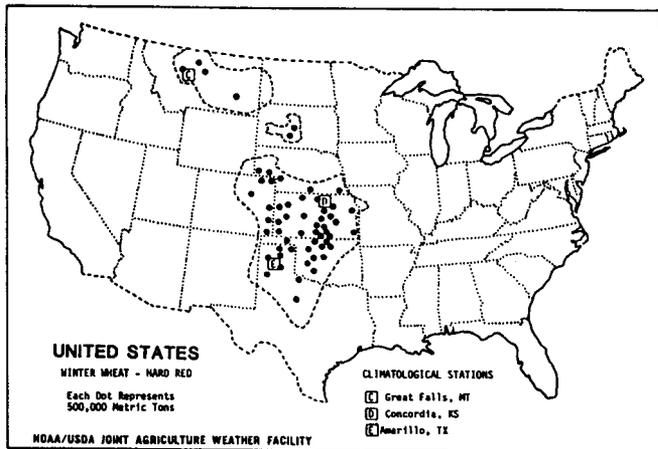
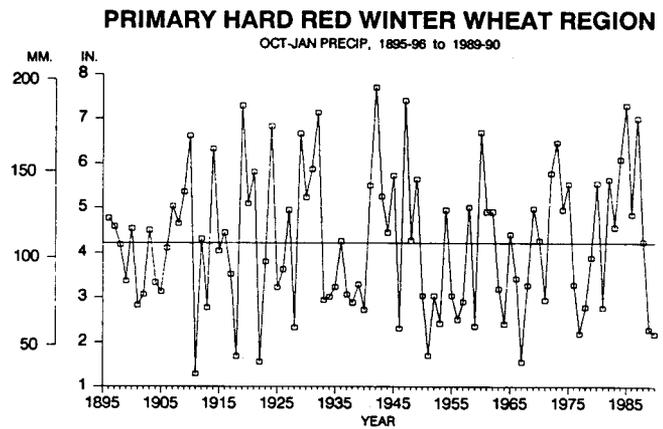
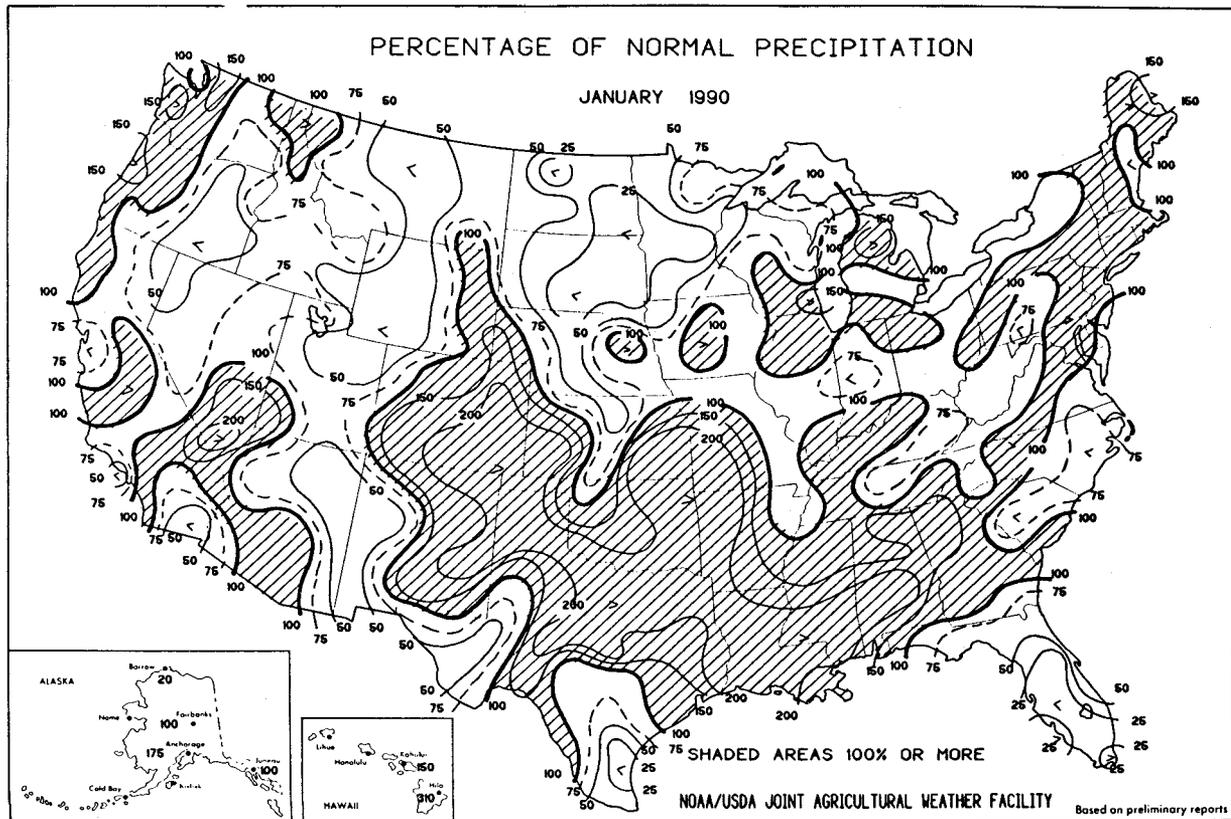
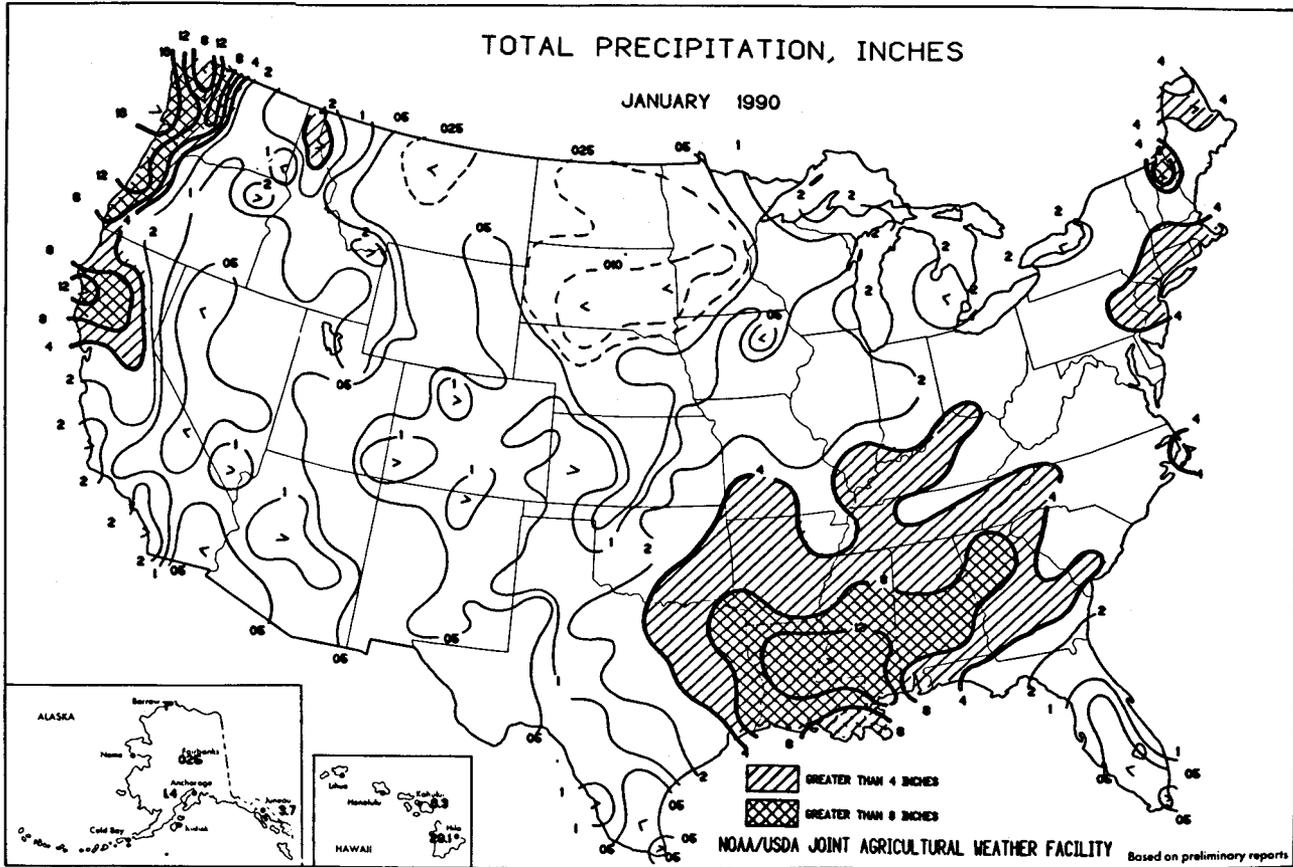
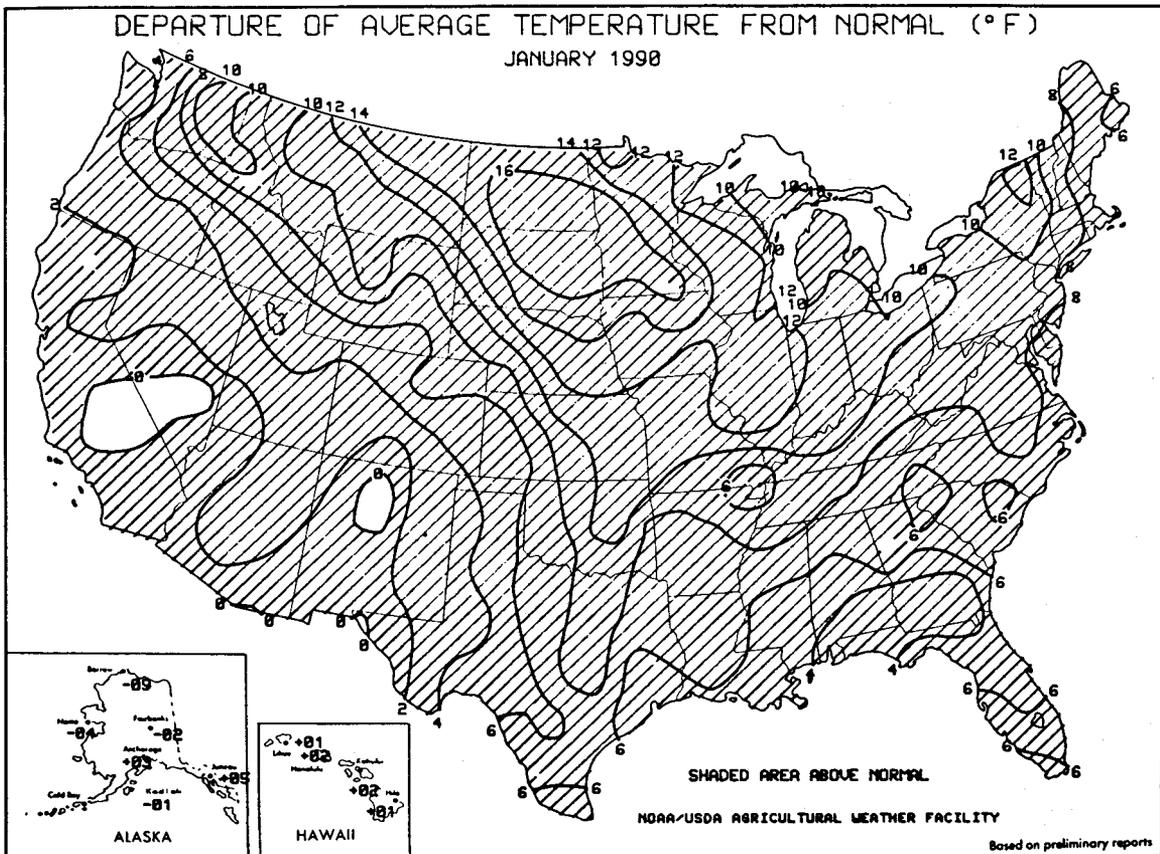
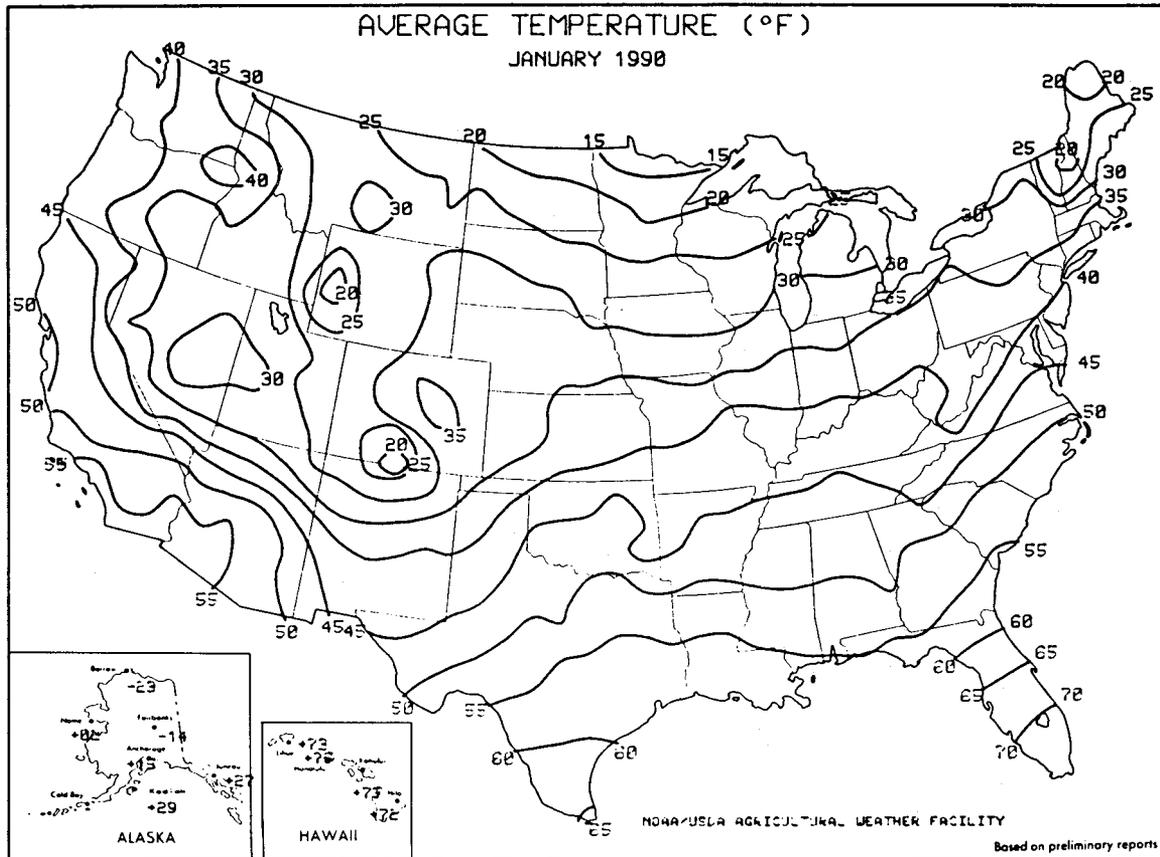


Figure 6







Temperature and Precipitation Data for January 1990

| States and Stations | Temperature °F | | Precipitation Inches | | States and Stations | Temperature °F | | Precipitation Inches | | States and Stations | Temperature °F | | Precipitation Inches | |
|---------------------|----------------|-----------|----------------------|------------|---------------------|----------------|-----------|----------------------|------------|---------------------|----------------|-----------|----------------------|-----------|
| | Average | Departure | Total | Departure | | Average | Departure | Total | Departure | | Average | Departure | Total | Departure |
| AL BIRMINGHAM | 49 | 6 | 7.4 | 2.2 | LA PADUCAH | 44 | 11 | 5.4 | 1.7 | MO DAYTON | 37 | 10 | 2.3 | -0.3 |
| HUNTSVILLE | 47 | 7 | 7.9 | 2.7 | ALEXANDRIA | 56 | 7 | 13.0 | 8.5 | MANSFIELD | 35 | 10 | 2.4 | 0.1 |
| MOBILE | 55 | 4 | 7.4 | 2.8 | BATON ROUGE | 57 | 6 | 11.4 | 6.8 | TOLEDO | 34 | 11 | 2.2 | 0.2 |
| MONTGOMERY | 51 | 4 | 10.2 | 6.0 | LAKE CHARLES | 56 | 6 | 8.9 | 4.3 | YOUNGSTOWN | 35 | 11 | 2.1 | -0.6 |
| AK ANCHORAGE | 16 | 3 | 1.4 | 0.7 | NEW ORLEANS | 57 | 5 | 7.6 | 2.7 | OK OKLAHOMA CITY | 46 | 10 | 1.9 | 0.9 |
| BARROW | -23 | -9 | T | -0.2 | SHREVEPORT | 53 | 6 | 10.0 | 6.0 | TULSA | 46 | 11 | 2.9 | 1.5 |
| FAIRBANKS | -1 | 0.5 | 0.0 | ME CARIBOU | 17 | 6 | 3.4 | 1.0 | OR ASTORIA | 45 | 4 | 16.1 | 4.8 | |
| JUNEAU | 27 | 5 | 3.7 | 0.0 | PORTLAND | 30 | 9 | 3.2 | -0.6 | BURNS | 30 | 3 | 0.6 | -1.0 |
| KODIAK | 30 | 0 | 6.6 | 0.8 | MD BALTIMORE | 42 | 9 | 3.7 | 0.7 | EUGENE | 43 | 3 | 15.1 | 6.7 |
| NOME | 2 | -4 | 0.9 | 0.1 | SALISBURY | 43 | 8 | 3.5 | 0.1 | MEDFORD | 40 | 2 | 2.9 | -0.5 |
| AZ FLAGSTAFF | 29 | 1 | 1.5 | -0.6 | MA BOSTON | 37 | 7 | 3.8 | -0.2 | PENDLETON | 40 | 7 | 0.8 | -0.9 |
| PHOENIX | 56 | 3 | 0.8 | 0.1 | CHATHAM | 37 | 6 | 5.4 | 1.1 | PORTLAND | 43 | 4 | 8.0 | 1.8 |
| PRESQUITT | 36 | 0 | 1.5 | -0.2 | MI ALPENA | 27 | 8 | 2.4 | 0.7 | SALEM | 43 | 4 | 8.5 | 1.4 |
| TUCSON | 52 | 1 | 1.0 | 0.2 | DETROIT | 33 | 10 | 1.8 | 0.0 | PA ALLENTOWN | 37 | 10 | 4.6 | 1.2 |
| WINSLOW | 34 | 2 | 0.1 | -0.3 | FLINT | 32 | 10 | 1.8 | 0.3 | ERIE | 36 | 11 | 2.3 | -0.2 |
| YUMA | 57 | 1 | 0.2 | -0.2 | GRAND RAPIDS | 32 | 9 | 2.4 | 0.4 | HARRISBURG | 38 | 9 | 3.8 | 0.8 |
| AR FORT SMITH | 45 | 7 | 5.1 | 3.3 | HOUGHTON LAKE | 26 | 9 | 2.4 | 0.9 | PHILADELPHIA | 40 | 9 | 4.1 | 0.9 |
| LITTLE ROCK | 47 | 7 | 5.6 | 1.9 | LANGSING | 32 | 11 | 1.6 | -0.1 | PITTSBURGH | 37 | 9 | 3.3 | 0.4 |
| CA BAKERSFIELD | 48 | -1 | 0.9 | -0.1 | MARQUETTE | 21 | 9 | 1.7 | -0.3 | SCHANTON | 35 | 10 | 3.8 | 1.6 |
| BISHOP | 38 | 1 | 1.0 | -0.3 | MUSKEGON | 32 | 9 | 2.3 | 0.0 | WILLIAMSPORT | 36 | 9 | 2.4 | -0.5 |
| EUREKA | 49 | 1 | 7.2 | 0.2 | SAULT ST. MARIE | 24 | 10 | 2.5 | 0.3 | RI PROVIDENCE | 36 | 8 | 5.0 | 0.9 |
| FRESNO | 46 | 0 | 2.8 | 0.8 | MN ALEXANDRIA | 22 | 16 | 0.1 | -0.7 | SC CHARLESTON | 55 | 7 | 4.0 | 0.6 |
| LOS ANGELES | 57 | 1 | 1.2 | -1.9 | DULUTH | 19 | 12 | 0.5 | -0.7 | COLUMBIA | 52 | 7 | 2.4 | -2.0 |
| REDDING | 46 | -1 | 8.1 | -0.4 | INT'L FALLS | 13 | 13 | 0.6 | -0.3 | FLORENCE | 53 | 7 | 2.0 | -1.5 |
| SACRAMENTO | 48 | 2 | 5.0 | 1.0 | MINNEAPOLIS | 26 | 15 | 0.1 | -0.7 | GREENVILLE | 46 | 5 | 4.3 | 0.1 |
| SAN DIEGO | 57 | 1 | 2.5 | 0.4 | ROCHESTER | 26 | 16 | 0.6 | -0.3 | SD ABERDEEN | 25 | 17 | 0.1 | -0.4 |
| SAN FRANCISCO | 50 | 1 | 3.1 | -1.6 | ST. CLOUD | 22 | 15 | 0.1 | -0.7 | HURON | 28 | 17 | T | -0.4 |
| STOCKTON | 46 | 1 | 2.2 | -0.8 | MS GREENWOOD | 50 | 7 | 7.2 | 2.1 | RAPID CITY | 33 | 12 | 0.2 | -0.2 |
| CO ALAMOSA | 15 | -1 | 0.6 | 0.3 | JACKSON | 51 | 5 | 12.2 | 7.2 | STOIX FALLS | 28 | 16 | 0.1 | -0.4 |
| CO SPRINGS | 34 | 5 | 0.5 | 0.2 | MERIDIAN | 51 | 5 | 11.2 | 6.2 | TN BRISTOL | 42 | 7 | 3.2 | -0.4 |
| DENVER | 36 | 7 | 0.7 | 0.2 | TUPELO | 48 | 7 | 5.8 | 0.2 | CHATTANOOGA | 46 | 8 | 7.5 | 2.3 |
| GRAND JUNCTION | 29 | 3 | 0.6 | 0.0 | MO CAPE GIRARDEAU | 43 | - | 5.7 | 2.8 | KNOXVILLE | 45 | 6 | 5.9 | 1.3 |
| PUEBLO | 34 | 4 | 0.8 | 0.5 | COLUMBIA | 40 | 11 | 2.0 | 0.4 | MEMPHIS | 49 | 9 | 4.0 | -0.6 |
| CT BRIDGEPORT | 37 | 7 | 4.0 | 0.7 | KANSAS CITY | 38 | 10 | 1.2 | 0.0 | NASHVILLE | 46 | 9 | 2.8 | -1.7 |
| HARTFORD | 35 | 9 | 4.0 | 0.5 | SAINT LOUIS | 43 | 14 | 1.4 | -0.3 | TX ABILENE | 50 | 7 | 1.9 | 1.0 |
| DC WASHINGTON | 43 | 8 | 3.0 | 0.2 | SPRINGFIELD | 41 | 10 | 5.3 | 3.7 | AMARILLO | 39 | 4 | 1.2 | 0.8 |
| FL APALACHICOLA | 57 | 4 | 2.4 | -1.1 | MT BILLINGS | 31 | 10 | 0.3 | -0.7 | AUSTIN | 58 | 9 | 1.3 | -0.3 |
| DAYTONA BEACH | 62 | 4 | 1.4 | -1.0 | GLASGOW | 23 | 15 | 0.3 | 0.0 | BEAUMONT | 57 | 5 | 8.5 | 4.3 |
| FT. MYERS | 70 | 7 | 0.5 | -1.4 | GREAT FALLS | 30 | 10 | 0.3 | -0.7 | BROWNSVILLE | 65 | 5 | 0.6 | -0.7 |
| JACKSONVILLE | 58 | 4 | 1.8 | -1.1 | HAVRE | 27 | 14 | 0.2 | -0.4 | ORPUS CHRISTI | 62 | 7 | 0.4 | -1.2 |
| KEY WEST | 73 | 3 | T | -1.7 | HELENA | 29 | 10 | 0.5 | -0.2 | DEL RIO | 55 | 4 | 0.6 | 0.1 |
| MIAMI | 74 | 6 | 0.2 | -1.8 | KALISPELL | 30 | 10 | 1.7 | 0.1 | EL PASO | 44 | 0 | 0.3 | -0.1 |
| ORLANDO | 66 | 6 | 0.2 | -1.9 | MILES CITY | 27 | 13 | 0.4 | -0.2 | FORT WORTH | 52 | 8 | 4.5 | 2.8 |
| TALLAHASSEE | 56 | 4 | 3.1 | -1.6 | MISSOULA | 32 | 10 | 0.9 | -0.5 | GALVESTON | 57 | 4 | 3.4 | 0.4 |
| TAMPA | 66 | 6 | 0.5 | -1.7 | NE GRAND ISLAND | 34 | 13 | 0.4 | -0.1 | HOUSTON | 57 | 5 | 4.0 | 0.8 |
| GA WEST PALM BEACH | 72 | 7 | 1.2 | -1.5 | LINCOLN | 34 | 14 | 0.5 | -0.2 | LAREDO | 61 | 6 | 1.3 | 0.5 |
| ATHEN | 49 | 7 | 5.7 | 0.8 | NORFOLK | 31 | 14 | 0.7 | 0.2 | LUBBOCK | 43 | 4 | 0.4 | 0.0 |
| ATLANTA | 50 | 8 | 8.4 | 3.5 | NORTH PLATTE | 31 | 9 | 0.3 | -0.1 | MIDLAND | 47 | 3 | 0.2 | -0.2 |
| AUGUSTA | 52 | 7 | 2.7 | -1.3 | OMAHA | 34 | 14 | 0.6 | -0.1 | SAN ANGELO | 51 | 5 | 1.6 | 1.0 |
| MACON | 52 | 5 | 4.6 | 0.3 | SCOTTSBLUFF | 33 | 8 | 0.6 | 0.2 | SAN ANTONIO | 56 | 6 | 1.2 | -0.4 |
| SAVANNAH | 56 | 6 | 3.9 | 0.8 | VALENTINE | 32 | 14 | T | -0.2 | VICTORIA | 59 | 7 | 1.7 | -0.1 |
| HI HILO | 72 | 1 | 29.1 | 19.7 | NV ELKO | 28 | 3 | 1.0 | -0.2 | WACO | 54 | 8 | 2.7 | 1.1 |
| HONOLULU | 75 | 2 | 4.2 | 0.5 | ELY | 27 | 3 | 0.6 | -0.1 | WICHITA FALLS | 48 | 8 | 2.3 | 1.4 |
| KAHULUI | 73 | 1 | 6.3 | 2.1 | LAS VEGAS | 45 | 1 | 1.2 | 0.7 | UT BLANDING | - | - | 1.1 | -0.2 |
| LIHUE | 73 | 1 | 8.9 | 2.7 | RENO | 35 | 2 | 0.6 | -0.6 | CEDAR CITY | 31 | 1 | 1.0 | 0.4 |
| ID BOISE | 34 | 4 | 0.8 | -0.8 | WINNEMUCCA | 32 | 2 | 0.5 | -0.4 | SALT LAKE CITY | 33 | 5 | 0.6 | -0.8 |
| LEWISTON | 42 | 10 | 0.8 | -0.6 | NH CONCORD | 28 | 8 | 2.8 | 0.0 | VT BURLINGTON | 29 | 13 | 2.4 | 0.5 |
| POCATTELLO | 30 | 6 | 0.5 | -0.6 | NJ ATLANTIC CITY | 40 | 8 | 2.7 | -0.8 | VA LYNCHBURG | 44 | 9 | 3.2 | 0.1 |
| IL CAIRO | - | - | 5.3 | 1.8 | NM ALBUQUERQUE | 35 | 0 | 0.2 | -0.2 | NORFOLK | 47 | 7 | 3.3 | -0.4 |
| CHICAGO | 34 | 14 | 2.0 | 0.4 | CLOVIS | 39 | 1 | 1.0 | 0.6 | RICHMOND | 46 | 9 | 2.8 | -0.4 |
| MOLINE | 33 | 13 | 1.7 | 0.1 | ROSWELL | 43 | 3 | 0.4 | 0.2 | ROANOKE | 43 | 8 | 2.3 | -0.5 |
| PEORIA | 35 | 13 | 1.7 | 0.1 | NY ALBANY | 33 | 11 | 3.8 | 1.4 | WA COLVILLE | 28 | 3 | 2.7 | 0.5 |
| QUINCY | 38 | 14 | 1.0 | -0.4 | BINGHAMTON | 31 | 10 | 3.3 | 0.8 | QUILLAYUTE | 43 | 4 | 17.1 | 2.0 |
| ROCKFORD | 30 | 12 | 1.8 | 0.4 | BUFFALO | 33 | 9 | 2.7 | -0.3 | SEATTLE-TACOMA | 43 | 3 | 9.4 | 3.4 |
| SPRINGFIELD | 37 | 13 | 1.5 | -0.1 | NEW YORK | 41 | 9 | 4.1 | 1.0 | SPOKANE | 34 | 8 | 2.5 | 0.0 |
| IN EVANSVILLE | 42 | 11 | 4.3 | 1.3 | ROCHESTER | 33 | 9 | 1.6 | -0.7 | WALLA WALLA | - | - | 1.7 | -0.7 |
| FORT WAYNE | 34 | 11 | 2.2 | 0.1 | SYRACUSE | 33 | 10 | 2.1 | -0.5 | YAKIMA | 37 | 8 | 1.5 | 0.1 |
| INDIANAPOLIS | 37 | 11 | 1.9 | -0.8 | NC ASHEVILLE | 43 | 6 | 3.3 | 0.1 | WV BECKLEY | 38 | 8 | 2.9 | -0.5 |
| SOUTH BEND | 34 | 11 | 2.4 | -0.1 | CHARLOTTE | 48 | 7 | 3.8 | 0.0 | CHARLESTON | 42 | 9 | 2.9 | -0.6 |
| IA DES MOINES | 32 | 13 | 1.4 | 0.4 | GREENSBORO | 45 | 8 | 3.8 | 0.3 | ELKINS | 36 | 7 | 3.6 | 0.2 |
| DUBUQUE | 29 | 13 | 1.3 | -0.1 | HATTERAS | 52 | 7 | 4.7 | -0.2 | HUNTINGTON | 42 | 9 | 3.2 | -0.1 |
| STOIX CITY | 30 | 14 | 0.3 | -0.3 | NEW BERN | 51 | 7 | 2.7 | -1.3 | PARKERSBURG | 40 | 9 | 3.2 | 0.4 |
| WATERLOO | 29 | 15 | 0.5 | -0.3 | HALEIGH | 48 | 8 | 3.1 | -0.5 | WI GREEN BAY | 27 | 12 | 0.6 | -0.5 |
| KS CONCORDIA | 37 | 11 | 0.3 | -0.4 | WILMINGTON | 52 | 6 | 2.3 | -1.3 | LA CROSSE | 28 | 14 | 0.8 | -0.2 |
| DODGE CITY | 35 | 6 | 1.6 | 1.2 | ND BISMARCK | 24 | 17 | 0.3 | -0.2 | MADISON | 29 | 13 | 1.6 | 0.5 |
| GOODLAND | 33 | 6 | 0.7 | 0.3 | FARGO | 22 | 17 | 0.1 | -0.4 | MILWAUKEE | 31 | 12 | 2.6 | 1.0 |
| TOPEKA | 37 | 11 | 1.2 | 0.3 | GRAND FORKS | 18 | 16 | 0.2 | -0.6 | WAUSAU | 24 | 13 | 0.9 | 0.0 |
| WICHITA | 40 | 10 | 1.7 | 1.1 | WILLISTON | 23 | 16 | 0.4 | -0.2 | WY CASPER | 29 | 7 | 0.3 | -0.2 |
| KY BOWLING GREEN | 43 | 9 | 5.2 | 0.6 | OH AKRON-CANTON | 35 | 9 | 2.2 | -0.4 | CHEYENNE | 32 | 5 | 0.4 | -0.1 |
| JACKSON | 43 | 11 | 2.6 | -1.3 | CINCINNATI | 40 | 11 | 2.6 | -0.5 | LANDER | 29 | 10 | T | -0.4 |
| LEXINGTON | 41 | 10 | 4.2 | 0.6 | CLEVELAND | 36 | 10 | 2.4 | -0.1 | SHERIDAN | 29 | 9 | 0.5 | -0.2 |
| LOUISVILLE | 43 | 11 | 3.9 | 0.6 | COLUMBUS | 37 | 10 | 2.4 | -0.3 | PR SAN JUAN | 77 | 1 | 4.6 | 1.6 |

Based on 1951-80 normals.

Heating Degree Days (Base 65°) For January 1990

| States and Stations | TOTAL Depart | | States and Stations | TOTAL Depart | | States and Stations | TOTAL Depart | |
|------------------------|--------------|------|-------------------------|--------------|----------------|--------------------------|--------------|------|
| AL. Birmingham . . . | 484 | -201 | MD. Baltimore . . . | 707 | -294 | OK. Okla. City . . . | 583 | -319 |
| Mobile . . . | 326 | -143 | MA. Boston . . . | 880 | -217 | Tulsa . . . | 580 | -344 |
| Montgomery . . . | 430 | -150 | Chatham . . . | 868 | -183 | OR. Astoria . . . | 621 | -120 |
| AK. Anchorage . . . | 1533 | -79 | MI. Alpena . . . | 1173 | -303 | Burns . . . | 1076 | -87 |
| Barrow . . . | 2730 | 269 | Detroit . . . | 966 | -324 | Medford . . . | 772 | -77 |
| Fairbanks . . . | 2421 | 9 | Flint . . . | 1020 | -335 | Pendleton . . . | 821 | -177 |
| Nome . . . | 1940 | 105 | Grand Rapids . . . | 1014 | -319 | Portland . . . | 781 | -28 |
| AZ. Flagstaff . . . | 1124 | -17 | Houghton Lake . . . | 1195 | -293 | Salem . . . | 682 | -115 |
| Phoenix . . . | 291 | -103 | Lansing . . . | 1023 | -322 | PA. Allentown . . . | 858 | -314 |
| Tucson . . . | 402 | -29 | Marquette . . . | 1324 | -316 | Erie . . . | 892 | -364 |
| Winslow . . . | 971 | -52 | S. Ste. Marie . . . | 1281 | -322 | Harrisburg . . . | 824 | -280 |
| Yuma . . . | 251 | -39 | MN. Duluth . . . | 1428 | -392 | Philadelphia . . . | 757 | -291 |
| AR. Fort Smith . . . | 611 | -242 | Internatl Falls . . . | 1596 | -416 | Pittsburg . . . | 869 | -318 |
| Little Rock . . . | 540 | -238 | Minneapolis . . . | 1194 | -474 | Scranton . . . | 915 | -319 |
| CA. Bakersfield . . . | 614 | 93 | Rochester . . . | 1205 | -475 | RI. Providence . . . | 882 | -259 |
| Eureka . . . | 513 | -36 | St. Cloud . . . | 1325 | -473 | SC. Charleston . . . | 294 | -249 |
| Fresno . . . | 598 | -7 | MS. Jackson . . . | 429 | -182 | Columbia . . . | 393 | -244 |
| Los Angeles . . . | 237 | -49 | Meridian . . . | 433 | -183 | Greenville . . . | 564 | -177 |
| Redding . . . | 611 | 37 | MO. Columbia . . . | 781 | -382 | SD. Aberdeen . . . | 1222 | -536 |
| Stockton . . . | 569 | -45 | Kansas City . . . | 836 | -376 | Huron . . . | 1131 | -537 |
| San Diego . . . | 252 | -6 | St. Louis . . . | 679 | -443 | Rapid City . . . | 1004 | -366 |
| San Francisco . . . | 459 | -53 | Springfield . . . | 724 | -315 | Sioux Falls . . . | 1131 | -500 |
| CO. Denver . . . | 879 | -222 | MT. Billings . . . | 1042 | -325 | TN. Chattanooga . . . | 561 | -254 |
| Pueblo . . . | 964 | -127 | Glasgow . . . | 1287 | -474 | Knoxville . . . | 622 | -209 |
| CO. Bridgeport . . . | 869 | -232 | Great Falls . . . | 1079 | -356 | Memphis . . . | 503 | -284 |
| Hartford . . . | 935 | -299 | Havre . . . | 1186 | -488 | Nashville . . . | 590 | -275 |
| DC. Washington . . . | 656 | -268 | Helena . . . | 1116 | -338 | TX. Abilene . . . | 460 | -213 |
| FL. Apalachicola . . . | 228 | -173 | Kalispell . . . | 1096 | -321 | Amarillo . . . | 795 | -123 |
| Jacksonville . . . | 133 | -263 | Miles City . . . | 1167 | -411 | Austin . . . | 239 | -266 |
| Key West . . . | 2 | -47 | Missoula . . . | 1035 | -320 | Beaumont . . . | 245 | -186 |
| Miami . . . | 7 | -69 | NE. Grand Island . . . | 956 | -420 | Brownsville . . . | 95 | -121 |
| Orlando . . . | 71 | -141 | Lincoln . . . | 960 | -444 | Corpus Christi . . . | 160 | -150 |
| W. Palm Beach . . . | 14 | -78 | Norfolk . . . | 1035 | -441 | Del Rio . . . | 300 | -150 |
| Tallahassee . . . | 281 | -160 | North Platte . . . | 1061 | -294 | El Paso . . . | 640 | -5 |
| Tampa . . . | 70 | -158 | Omaha . . . | 945 | -490 | Fort Worth . . . | 401 | -250 |
| GA. Atlanta . . . | 462 | -254 | Valentine . . . | 1026 | -409 | Galveston . . . | 224 | -152 |
| Augusta . . . | 403 | -223 | NV. Ely . . . | 1180 | -79 | Houston . . . | 264 | -178 |
| Macon . . . | 398 | -182 | Las Vegas . . . | 606 | -26 | Lubbock . . . | 672 | -140 |
| Savannah . . . | 286 | -221 | Reno . . . | 943 | -74 | Midland . . . | 569 | -91 |
| ID. Boise . . . | 951 | -137 | Winnemucca . . . | 1026 | -65 | San Angelo . . . | 444 | -161 |
| Lewiston . . . | 709 | -311 | NH. Concord . . . | 1121 | -277 | San Antonio . . . | 283 | -180 |
| Pocatello . . . | 1079 | -198 | NJ. Atlantic City . . . | 747 | -282 | Victoria . . . | 206 | -180 |
| IL. Chicago . . . | 956 | -396 | NM. Albuquerque . . . | 934 | -2 | Waco . . . | 341 | -250 |
| Moline . . . | 995 | -416 | NY. Albany . . . | 990 | -371 | Wichita Falls . . . | 525 | -241 |
| Peoria . . . | 929 | -420 | Binghamton . . . | 1031 | -327 | UT. Salt Lake City . . . | 971 | -157 |
| Rockford . . . | 1074 | -374 | Buffalo . . . | 970 | -317 | VT. Burlington . . . | 1084 | -416 |
| Springfield . . . | 856 | -396 | New York . . . | 735 | -294 | VA. Lynchburg . . . | 645 | -282 |
| Fort Wayne . . . | 928 | -365 | Rochester . . . | 967 | -316 | Norfolk . . . | 541 | -237 |
| Indianapolis . . . | 851 | -358 | Syracuse . . . | 976 | -332 | Richmond . . . | 574 | -306 |
| South Bend . . . | 954 | -342 | NC. Asheville . . . | 679 | -195 | Roanoke . . . | 654 | -261 |
| IA. Des Moines . . . | 1025 | -413 | Charlotte . . . | 503 | -257 | WA. Quillayute . . . | 690 | -566 |
| Dubuque . . . | 1021 | -510 | Greensboro . . . | 601 | -252 | Seattle-Tacoma . . . | 689 | -114 |
| Soux City . . . | 1065 | -448 | Hatteras . . . | 398 | -219 | Spokane . . . | 976 | -242 |
| KS. Concordia . . . | 865 | -378 | Raleigh . . . | 518 | -269 | Walla Walla . . . | | |
| Dodge City . . . | 914 | -187 | Wilmington . . . | 378 | -229 | Yakima . . . | 876 | -265 |
| Goodland . . . | 994 | -178 | ND. Bismark . . . | 1278 | -529 | WV Beckley . . . | 813 | -269 |
| Topeka . . . | 851 | -355 | Fargo . . . | 1332 | -550 | Charleston . . . | 697 | -298 |
| Wichita . . . | 783 | -314 | Williston . . . | 1294 | -516 | Huntington . . . | 702 | -296 |
| KY. Lexington . . . | 720 | -319 | OH. Akron-Canton . . . | 923 | -314 | WI. Green Bay . . . | 1189 | -392 |
| Louisville . . . | 672 | -336 | Cincinnati . . . | 770 | -349 | La Crosse . . . | 1139 | -442 |
| LA. Baton Rouge . . . | 258 | -208 | Cleveland . . . | 898 | -327 | Madison . . . | 1122 | -409 |
| Lake Charles . . . | 284 | -158 | Columbus . . . | 840 | -335 | Milwaukee . . . | 1040 | -395 |
| New Orleans . . . | 253 | -170 | Dayton . . . | 858 | -332 | WY Casper . . . | 1107 | -220 |
| Shreveport . . . | 382 | -215 | Toledo . . . | 947 | -352 | Cheyenne . . . | 1037 | -169 |
| ME. Caribou . . . | 1471 | -215 | Youngstown . . . | 925 | -340 | Lander . . . | 1105 | -302 |
| Portland . . . | 1071 | -278 | | | Sheridan . . . | 1096 | -315 | |

National Agricultural Summary

January 29 - February 4, 1990

HIGHLIGHTS: Above-normal temperatures continued to promote small grain and pasture growth. Portions of the **central and southern Great Plains** received needed moisture, improving winter wheat condition. The **northern Great Plains** remained dry. Rain slowed fieldwork in the **Delta** and limited fertilizer spreading in much of the **eastern Corn Belt**. Heavy rains improved soil moisture supplies in **western Washington and Oregon** and **northern California**.

SMALL GRAIN: Precipitation improved winter wheat condition in portions of the central and southern Great Plains. In Kansas, most areas received some precipitation in the form of rain, sleet, or snow, but more was needed. Rain and moderate temperatures improved winter wheat in Oklahoma. Producers were topdressing some fields. In Texas, mild temperatures improved small grain growth, but additional moisture was needed. Beneficial rains fell in the north-central and eastern areas. Greenbugs were a continuing problem in the Blacklands and central Texas. Producers were topdressing some fields in those areas. Winter wheat was fair to poor in Missouri and Nebraska. Lack of moisture stressed the crop in Nebraska, while rain improved Missouri's winter wheat. In Montana and South Dakota, winter wheat was good to fair. Montana's crop had fair snow cover and wind damage to date has been light. In the Corn Belt and Southeast, crop condition was good to fair. Fertilizing was slowed by rain and wet fields in Georgia. Arkansas' crop was good with mild temperatures promoting growth. In Washington, winter wheat was good to fair. Russian wheat aphids were a continuing problem in the Sacramento Valley of California. Portions of northern California received beneficial rains, but many areas needed moisture and milder temperatures to promote growth.

OTHER FIELD CROPS: Sugarcane harvest continued in Florida. Georgia's tobacco plants were in excellent condition. Tobacco bed preparation and seeding continued in North and South Carolina. Rain and wet field conditions continued to limit fieldwork in the Delta. Land preparation for spring planting continued in the Southeast.

FRUIT AND NUTS: Florida's citrus groves continued to recover from the freeze. New growth, bloom buds, and some open blooms were present. Lack of rain forced irrigation. Salvage harvest was almost complete, and some harvest of undamaged crops was underway in southern areas. In Texas, early peach varieties were blooming. Lemon and navel orange harvests were complete in western Arizona. In central Arizona, lemon and navel orange harvests continued and Valencia orange harvest began. Grapefruit and lemon harvests continued in California. Almonds were in the bud swell stage.

VEGETABLES: Unusually warm weather continued over Florida's major vegetable producing areas. Spring crop planting was active. Harvest activity was light for most crops. Harvest volume leaders were cabbage, radishes, celery, tomatoes, and peppers. The first post-freeze iceberg lettuce was harvested. Georgia's onions were in good condition. In Texas, producers were preparing for melon planting in the Rio Grande Valley. Land preparation and spring crop planting were active in the San Antonio-Winter Garden area. Mixed vegetable harvest continued in Arizona. In the Salinas area of California, the volume of artichokes harvested was moderate and of variable quality due to cold weather. Snap bean fields were being fumigated in preparation for planting in the Modesto area. Young lettuce plants were thinned and treated to control diseases in the Westside area. Winter potato harvest was active in Riverside County.

PASTURES AND LIVESTOCK: Rain and mild temperatures continued to improve pasture growth in the Delta and Southeast. In Texas, lack of moisture continued to limit grazing in many areas, making heavy supplemental feeding necessary. In Nebraska, livestock was still grazing on crop residue in many areas. Some respiratory problems were occurring due to fluctuating temperatures and dry, dusty conditions. Rain improved pasture and range growth in portions of California.

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 2.00 to 4.00 in. north; 1.00 to 2.00 in. central; 1.00 or less elsewhere. Temperatures 10° above normal.

Winter wheat mostly fair to good; disease light to none. Livestock mostly good. Pastures fair to poor. Hay, roughage supplies for remainder of season 8% short, 89% adequate, 3% surplus. Primary activities: Routine care of livestock, poultry, catfish; repairing, maintaining equipment; spraying, pruning fruit trees; planting pine trees; soil testing; ordering supplies; working farm records.

ARIZONA: Sunny, mild early in period; 31st, 1st cloudy, colder, rain, snow showers statewide; clearing 2nd, increasing temperatures; precipitation 0.01 in. southwest to 1.21 in. north central; temperatures normal to 4° below. Extremes -1°; 48° high elevations: 28°; 77° desert.

Cotton field preparation continued; activities included disking, applying pre plant fertilizers, herbicides, listing, mulching, pre irrigation. Wheat, barley mostly good. Alfalfa mostly good; weeds, disease, insect infestations light; grazing continued. Lemon, navel harvest completed west, continued central; other citrus, mixed vegetable harvest continued across State. Valencia harvest began central. Cattle, calves mostly fair; northeast, high, mid elevations poor condition. Ranchers continued supplemental feeding, reducing stock numbers; south central sheep, lambs excellent; southeast cattle, calves mostly good. Moisture continued short.

ARKANSAS: Mild week. Temperatures well above normal. Heavy rains statewide last half of week. Heaviest southeast. Extremes 17°; 74°. Rainfall 2.29 to 8.13 in.

Wheat crop good, beginning to grow due to mild temperatures. Fields soggy in southeast. Oats fair to good. Fruit good. Supplemental feeding continues.

CALIFORNIA: Fast moving weather systems moved through State during period. Precipitation heaviest over north half of State. Snow fell low elevations of northern mountains, Sierra Nevada.

Fieldwork slow areas receiving rain; elsewhere producers applying broadleaf weed control, other herbicides. Many areas need more rain, warmer temperatures for normal small grain growth. Winter wheat tillering stage, fair, good. Russian wheat aphid damage continued Sacramento Valley. Other field activities: Weed control alfalfa fields, fertilizing, ground preparations. Pruning, weed control, spraying continued; vineyards, orchards. Almond bud swell progressed, early bee activity. Harvesting of grapefruit, lemons, Royal Mandarins, Kinnows, navels ongoing. Avocado harvest slowed. Lemons, Minneola tangelos packed Fresno County. Citrus exported, Netherlands, Japan, New Zealand, Australia. Artichoke volume Salinas moderate, variable quality due to frosty conditions. Snap bean fields fumigated for planting Modesto. Broccoli harvest light Salinas, good quality, moderate Santa Maria, variable quality. Harvest finished Patterson Newman area, movement continued from westside, Coachella Valley areas. Cauliflower movement very light Salinas area, moderate Santa Maria area, variable quality. Celery supplies

from Santa Maria area light, variable quality. Lettuce movement slow from desert area. Young lettuce plants thinned, treated to control diseases westside area. Melon fields desert area prepared for planting. Green pea planting continued Merced area, earlier fields starting to emerge. Fall potatoes moved from storage cellars Tulalake Butte Valley area. Winter potato harvest continued Riverside County. Tomato ground preparation, planting continued Sacramento, San Joaquin Valley areas. Westside area fields germinating, some field emergence. Livestock good. Recent rainfall improved range, pasture conditions, water supply levels, Sacramento Valley, San Joaquin Valley, some southern areas. Supplemental feeding continued. In northern counties, lambing, calving continued despite cold weather. In westside, Delta areas, alfalfa fields sheeped off, lambing active.

COLORADO: Fast moving frontal systems which moved through the area every 36 hours or so. These systems brought mostly light snow to the mountains, mostly 3.00 to 6.00 in. as the systems moved through. Except for 3.00 in. of new snow in the Durango area, most of the snow at lower elevations during the week fell on 2nd. Largest amounts of moisture 0.23 in. at Grand Junction, 0.17 in. at Denver. Temperatures west of the Continental Divide mostly 2 to 4° above normal. East of Divide 2 to 4° below normal, 3 to 5° below normal near the eastern foothills to 6 to 8° below normal near the Kansas Border.

FLORIDA: Warm, 10 to 15° above normal. Extremes 30°; 89°. Rain under 1.00 in. Madison, Kissimmee, Live Oak 1.00 in.; greatest total 1.94 in., Archbold. Rain fell up to 4 days, west; 1 or 2 days most other locations.

Soil moisture Panhandle mostly adequate, Peninsula short to adequate. Land preparation spring planted crops active. Tobacco plant bed planting completed; beds progressing well. Sugarcane harvest active. Most pastures continued to improve. Warm temperatures promoted growth, dry soils limited recovery, particularly many upper Peninsula areas. Panhandle, northern Peninsula pastures fair to good; some winter grazing crops excellent. Peninsula pastures very poor, driest localities to excellent, few areas having more rain; most areas poor to fair. Cattle, calves show some improvement; fair to generally good, Panhandle; fair to good elsewhere. Citrus trees recovering from freezes. Warm, dry; irrigation necessary. New growth, bloom buds progressing; some open bloom. Salvage harvest almost complete. Some picking undamaged crops, southern areas. Caretakers unbanking, unwrapping, irrigating young trees; few fertilizing. Unusually warm weather continued over major vegetable producing areas. Planting spring crops active. Harvest continued light most crops. Volume leaders: Cabbage, radishes, celery, tomatoes, peppers. Also available light supply carrots, escarole, squash, lettuce. First post freeze iceberg lettuce cut.

GEORGIA: Warm, wet week, temperatures 10 to 15° above normal. Cold front brought return normal readings 3rd, 4th. Extremes 21°; 86°. Rain 3 to 5 days. Totals 1.00 to 2.00 in. north, mostly 0.50 to 1.00 in. elsewhere. Greatest weekly total

5.04 in. Crawfish Creek, Dade County, 4.18 in. Epworth, Fannin County.

Soil moisture again surplus. Land preparation slowed, limited to end of week. Tobacco plants excellent. Small grains good, topdressing behind normal, limited by wet fields during week. Onions good, wet fields interrupting spray schedules. Pruning peach trees central. Pastures poor to good. Livestock good.

HAWAII: High pressure system north of Island chain caused gusty winds, variable weather. Skies mostly overcast with occasional sunny periods. Showers light to moderate, becoming heavy at times. Trade winds variable 15 to 30 mph with temperatures mid 60s to low 80s. Rainfall none to 13.0 in.

Days suitable for farm work 7.0. Papaya production light. Wind, sunny periods helped to dry muddy fields. Beneficial rains initiated early flowering in macadamia, coffee crops.

IDAHO: Temperatures warm, 2 to 10° above normal. Light precipitation statewide, again below normal for the week.

Snow, wind curtailed most outdoor activities. Farmers actions revolved around preparing taxes, planning next cropping season, meetings concerning noxious weed, field burning. Outdoor activities included general care, feeding of livestock. Livestock good condition as calving, lambing picked up across State. Good calving, lambing most areas. Short to adequate supplies of hay, roughage in isolated parts of north, east. Adequate supplies available elsewhere.

ILLINOIS: Temperatures 7 to 13° above normal. Precipitation less than 1.00 in. north, generally 1.00 to 2.00 in. central, south.

Winter wheat mostly good. Livestock good to excellent.

INDIANA: Temperatures 6 to 12° above normal. Lows mid 20s to mid 30s, highs upper 30s to upper 40s. Precipitation 1.00 to 2.00 in.

Rain, wet soils limited field activities. Other activities: Hauling manure, plowing, machinery repair, tax preparation, moving grain, purchasing supplies, spreading lime, seeding legumes, processing tobacco, care of livestock. Hay supplies adequate. Livestock mostly good. Wheat fair to good.

IOWA: Temperatures 6 to 10° above normal. Extremes -3°; 58°. Precipitation 0.03 to 0.36 in.; average 0.14 in. Livestock enjoying warmer temperatures.

Main activities: Tending livestock, spreading manure, bookkeeping, repairing machinery.

KANSAS: Temperatures 4° above normal south central, 6° above northeast, north central. Temperatures 2° below normal northwest, 1° below southwest.

Most areas received some moisture in form of rain, sleet, snow, ice, or some combination. Ice, snow not melted many areas due temperatures near, below freezing. Precipitation will improve soil moisture levels. Supplemental feeding increased where pastures, wheat fields covered snow, ice.

KENTUCKY: Warm, afternoon highs 60s to lower 70s 1st, 2nd; lows, 20s to lower 30s. Temperatures mid 40s, 5 to 10° above normal. Rainfall abundant, 2.00 in. northeast, over 5.00 in. southwest.

Topsoil adequate to surplus. Virtually no fieldwork. Livestock benefitted from warm weather. 1990 basic burley quota will increase about 2.5 percent from 1989.

LOUISIANA: Temperatures 9 to 11° above normal. Extremes 32°; 83°. Rainfall well above normal in northern part of State at 5.77 in., slightly below normal in southeast portion at 0.92 in.

Main activities: Crawfishing; livestock care; routine chores.

MARYLAND & DELAWARE: **MARYLAND:** Precipitation 0.78 in. Temperature 43°, normal 33°. Extremes 16°; 72°.

DELAWARE: Precipitation 0.47 in. Temperature 45°, normal 34°. Extremes 25°; 67°.

MICHIGAN: Temperatures 4 to 10° above normal. Extremes -3°; 48°. Precipitation 0.09 to 0.93 in. across State. Rain, freezing rain, snow, fog occurred over much of the southern Lower Peninsula weekend. Added precipitation, continued mild temperatures helpful for winter wheat.

Major activities: Marketing grain, hay, pruning fruit orchards, repairing machinery, attending commodity meetings, making plans for spring planting season. Livestock good. Feed supplies abundant. Cattle needed extra protection from rain, sleet most of weeks weather favorable for livestock.

MINNESOTA: Temperatures 4 to 6° above normal. Extremes -24°; 56°. Precipitation 0.04 to 0.13 in. Greatest weekly total 0.30 in.

MISSISSIPPI: Warm, very wet. Temperatures 10° above normal. Extremes 25°; 84°. Rainfall 3.54 in., 2.38 in. above normal. Flooding in low areas common. Thunderstorms, hail, tornadoes on the 2nd, 3rd.

Days suitable for fieldwork 1.0. Soil moisture surplus to excessive. Wheat fair. Pastures, livestock fair to good. Hay, feed grain supply adequate. Rain preventing farmers from top dressing forages.

MISSOURI: Temperatures 7° above normal west to 9° above normal east. Heavy rains Bootheel brought streams near flood level. Precipitation southern counties 1.00 to 2.00 in. or more, north averaged 0.50 in.

Topsoil 37% short, 52% adequate, 11% surplus, main shortages north, main surplus southeast. Subsoil 76% short, 24% adequate. Wheat 4% very poor, 22% poor, 63% fair, 12% good. Moisture improved wheat, growth started, farmers concerned that crop would be vulnerable if extreme cold occurred. Livestock 16% fair, 78% good, 6% excellent. Hay 8% short, 71% adequate, 21% surplus, main shortage northwest. Livestock water supply 9% critically short, 36% short, 55% adequate, shortage worst northeast.

MONTANA: Arctic air pushed temperatures to below normal central, east. Temperatures west slightly above normal. Precipitation widespread, most in west. North central, northeast had least. Rainfall none to 1.24 in.

Winter wheat 1% very poor, 4% poor, 32% fair, 56% good, 7% excellent. Snowcover protection winter wheat 29% poor, 38% fair, 29% good, 4% excellent. Wind damage winter wheat to date 60% none, 30% light, 9% moderate, 1% heavy. Virtually all livestock on supplemental feed. Grazing 37% open, 49% difficult, 14% closed. Calving 8% complete, lambing 2% complete.

NEBRASKA: Temperatures 3 to 8° above normal. Extremes 1°; 63°. Snow occurred latter part of week with traces amounts northwest, up to 0.33 in. southeast.

Winter wheat 2% very poor, 25% poor, 56% fair, 17% good. Dry, windy conditions caused some damage in Panhandle during January. Soil

conditions dry, more snow and early spring rains needed. Some insect problems in stored wheat Panhandle. Feed grain supplies average; hay, roughage supplies average to below average; pasture, range supplies below average. Cattle, calves considered to be in good. Livestock still grazing crop residues in many areas. Some respiratory problems caused by temperature fluctuations, dusty conditions. Calving, lambing just underway, calving 3% complete. Main activities: Livestock care, book work, equipment maintenance, ordering supplies, attending meetings, routine chores.

NEVADA: Series fast moving storm systems resulted increasing clouds, gusty wind, scattered light precipitation. Temperatures dropped end of period to below zero some areas. Gusty winds preceding late storm recorded over 70 mph.

Cold, windy weather hard on newborn calves, lambs. Chopping ice common. Marketing potatoes delayed by below normal temperatures.

NEW ENGLAND: Precipitation (rainfall, water equivalent of snow) 1.00 to 1.50 in. Maine, northern New Hampshire, northern Vermont, coastal Connecticut, 2.00 to 2.50 in. remainder. Temperatures teens northern Maine to mid 30s southern coast. Temperatures 5° above normal.

Major farm activities: Tending livestock, machinery maintenance, moving crops from storage.

NEW JERSEY: Temperatures much above normal, 34° north, 41° south, 42° coastal. Extremes 17°; 61°. Precipitation above north, south; near normal coastal, 2.19 in. north, 1.12 in. south, 0.79 coastal. Heaviest 24 hour total 2.00 in. on 29th, 30th.

Farmers performed machinery maintenance, repair; livestock tending; normal winter chores.

NEW MEXICO: Temperatures few degrees above normal over eastern plains, below normal over the valleys, deserts of central, western areas. Snow, rain fell statewide.

NEW YORK: Stormy week. Major snow storm 29th, 30th dumped 8.00 to 14.0 in. over eastern upstate areas, 3.00 to 6.00 in. western areas. Rain, mixed precipitation held amounts down in extreme southeast area. Showers again moved across area on 1st with precipitation ending as snow on the 2nd. Several inches snow fell. By late on the 3rd precipitation from the next storm system already edging into State. Despite several cold mornings at midweek, temperatures well above normal, many spots showing 6 to 9° departures.

Outside activities very difficult due to weather conditions. Major activities included caring for livestock, packing, grading fruit, machinery repair, maintenance, attending meetings, trade shows.

NORTH CAROLINA: Temperatures 6 to 12° above normal across State. Extremes 19°; 82°. Precipitation 0.14 to 1.88 in.

Days suitable for fieldwork 3.8. Soil moisture 2% short, 71% adequate, 27% surplus. Pasture 1% very poor, 18% poor, 51% fair, 30% good. Livestock feed from pasture 32%. Crop condition: Wheat, 1% poor, 35% fair, 64% good; oats 1% poor, 38% fair, 61% good; barley 1% poor, 28% fair, 71% good; rye 4% poor 30% fair, 65% good, 1% excellent; Hay, roughage supplies 2% short, 92% adequate, 6% surplus. Feed grain supplies 6% short, 93% adequate, 1% surplus. Activities: Preparing, seeding tobacco beds, tending livestock, spraying small grains, general farm maintenance.

NORTH DAKOTA: Cold early, warm late. Temperatures 4° below normal north central, northeast to 3° above normal east central, southeast. Extremes -32° northwest, 1st; 48° west central, 3rd. Scattered precipitation as snowfall none south central to 0.08 in. northwest.

Soil moisture below normal. Snow depth 0.40 in. Snowcover protection: Winter wheat 1% sufficient, rye 1%, alfalfa 5%. Winter wheat 10% very poor, 49% poor, 32% fair, 9% good; rye 7%, 37%, 50%, 6%. Livestock good, calving 2% completed, lambing 8%, shearing 11%. Feed supplies remained mostly adequate. Pastures open for grazing 65%. Roads open, dry. Railroad box car shortages slowed grain movement.

OHIO: Highs upper 30s to low 50s. Lows upper 20s to lower 30s. Temperatures 7 to 11° above normal. Precipitation mostly as rain 1.25 to 2.00 in.

Relatively mild weather prevailed which brought no stress to livestock or over wintering crops. Soils quite wet statewide. Snowcover 1.00 in. or less.

OKLAHOMA: Temperatures 3° above normal Panhandle to 8° above normal east central. Precipitation 0.05 in. Panhandle to 3.60 in. southeast.

Wheat pastures improved by additional moisture, moderate temperatures. Producers have started top dressing their fields. Some oat fields replanted due to hard December freeze. Forage supplies adequate. Cattle good; prices mixed, lighter weights were down. Calving weather excellent.

OREGON: Heavy rain west of Cascades: 3.00 to 8.00 in. along coast, coastal mountains; 2.50 to 6.00 in. Willamette Valley. Southwest interior valleys 1.00 to 3.00 in. East of Cascades amounts much lighter; less than 0.20 in. Columbia Basin to over 1.00 in. Lakeview. Temperatures near to above normal most areas due to prevalence of Pacific air flows. Columbia Basin 2 to 8° above normal. South central, southeast 2 to 4° below normal accompanied by snowfall.

Soil moisture mostly surplus west, remained mainly short east. Winter wheat fair to good. Other field crops mostly good west. Pruning progressed in orchards, caneberry fields. Livestock good to excellent. Early lambing, calving continued. Range, pastures remained mostly fair. Snowpack in high mountains increased, some areas now near normal.

PENNSYLVANIA: Warm wet across Commonwealth. Temperature 36°, 9° above normal. Extremes 10°; 59°. Precipitation 1.80 in., 0.62 in. above normal.

Activities: Spreading manure, caring for livestock; maintaining machinery; fixing fences, grading potatoes.

SOUTH CAROLINA: Rainfall 1.00 in. northwest to 2.10 in. near coast. Temperatures 10° above normal.

Farm activities: Preparing, planting tobacco seedbeds, applying fertilizer to wheat, land preparation for spring planting.

SOUTH DAKOTA: Temperatures 3° below to 7° above normal. Extremes -13°; 53°. Precipitation slightly above normal extreme northeast, below normal rest of State. Rainfall none to 0.32 in. melted precipitation. Yearly precipitation above normal at one northwest location, below normal rest of State. Range 0.06 in. above normal to 0.70 in. below normal. Maximum snowcover: 4.00 in. west central, none most of State. Winter wheat good to fair.

TENNESSEE: Fast moving low pressure system early brought moderate rains across State followed by two to three days of unseasonably warm temperatures. Slow moving, very wet storm system. High pressure built over west 4th with cooler temperatures. Temperatures much above normal. Precipitation twice the normal in the northeast, four times the normal in middle of State, five to seven times the normal in the west. Representative amounts: Bristol 2.05 in., Nashville 3.93 in., Dyersburg 6.94 in. Livestock swept away by flood waters. Primary activities: Flood control, damage repair, caring for livestock, routine maintenance.

TEXAS: Weather quite active last week. High pressure brought mostly fair, cool weather early week. Slipped to east midweek, brisk return flow brought considerable cloudiness, shower activity. Showers, thunderstorms developed, some severe. Weekend fair, cool temperatures. Temperatures warmer than normal over entire State. Rain, snow varied across State. North central, east most rain. Rest of State slightly below normal at least some precipitation fell.

Crops: Small grain conditions slowly improving across State because of warmer weather. Despite warm weather, small grains still need moisture. Producers topdressing some fields Blacklands, central. Greenbug infestations problem these areas.

Commercial Vegetables: Rio Grande Valley, producers getting ready for melon planting. Weather conditions continued warm, dry, no moisture in sight. San Antonio Winter Garden, spinach for processing good recovery. Producers preparing land, planting other spring vegetables. Early peach varieties continued to bloom because warm weather. Pruning, dormant oil applied for scale insects.

Range and Livestock: Ranges, pastures recovering with good moisture, warm temperatures. Grazing limited by short winter forage supplies. Livestock remained good condition because heavy supplemental feeding. Winter pasture grasses emerged, too short to provide grazing.

UTAH: Temperatures 3° above normal in central, northern areas, 1° below normal in southern part. Precipitation was moderate in northern mountainous areas, light in central, southern parts.

Concern continued over water supplies despite recent precipitation. Snowcover on fall seeded

crops increased, still below average. Lack of snowcover provided additional winter range for livestock in some areas. Range conditions continued mostly fair to poor.

VIRGINIA: Temperatures about 8° above normal. Extremes 16°; 76°. Widespread precipitation through the period 0.40 in. across the State.

Days suitable for fieldwork 2.6. Topsoil 28% surplus, 72% adequate. Winter grains, grazing crops 2% excellent, 53% good, 45% fair. Forage from pastures, dairy cattle 4%, beef cattle 19%, sheep 18%. Topdressing, lambing, tree pruning, livestock care, soil testing, preparing plantbeds.

WASHINGTON: Temperatures 1° below normal to 7° above normal, east; 1° below normal to 3° above normal, west. Precipitation none to 0.66 in., east; 1.36 to 4.83 in., west.

Days suitable for fieldwork 1.0. Soil moisture 31% short, 67% adequate, 2% surplus. Range, pasture 65% short, 35% adequate. Hay, other roughage 20% very short, 30% short, 50% adequate. Mild weather with precipitation slowed activity. Frost damage is a concern to orchardists, wheat growers. Pruning of caneberrries, fruit trees continued. Russian wheat aphids were still active. Winter wheat 1% poor, 21% fair, 78% good. Livestock good condition due to mild weather, calving, lambing increasing.

WEST VIRGINIA: Temperature 44°, 10 to 19° above normal. Extremes 18°; 73°. Precipitation 1.36 in., 0.63 to 1.40 in. above normal. Days suitable for fieldwork 2.1. Soil moisture 65% adequate, 35% surplus. Livestock good to fair; calving 19% complete, lambing 15% complete. Wheat fair to good. Barley good to fair. Feed supplies adequate. Farm activities: Feeding cattle, calving, lambing.

WISCONSIN: Temperature 25°. Extremes -15°; 47°. Precipitation trace to 0.40 in. Snowfall statewide on 30th, 1st, 3rd totalling 2.00 to 4.00 in. Mild temperatures.

WYOMING: Temperatures below normal. Precipitation below normal. Winter wheat fair to good, additional moisture needed. Livestock mostly good. Supplemental feeding continues most areas. Early calving starting. Lambing, shearing farm flocks underway.

January 1990

MONTHLY DATA FROM SELECTED FOREIGN CITIES
CLIMATE ANALYSIS CENTER-NMC-NWS-NOAA

*** = DATA NOT AVAILABLE

International Weather and Crop Summary

HIGHLIGHTS

January 28 - February 3, 1990

USSR ... Continued unseasonably warm weather melts protective snow cover and causes winter grains in the extreme south to lose winter hardiness.

EUROPE ... Storminess continues across the northwest. Beneficial rain helps reduce dryness in sections of the south.

SOUTH ASIA ... Dry weather in India benefits summer rice planting and cotton harvesting. Wheat ranges from vegetative to reproductive.

EASTERN ASIA ... Unseasonable cold continues across much of China. Heavy snow and rain falls in Japan and the Korean Peninsula.

SOUTHEAST ASIA ... Heavy rain and possible flooding continue in western sections of Java. Dryness persists in western sections of the Philippines.

SOUTH AFRICA ... Variable showers and near-normal temperatures in most areas favor corn in or nearing the filling stage.

SOUTH AMERICA ... Widespread rain benefits reproductive crops in Argentina; drier weather favors Brazil's southern soybeans.

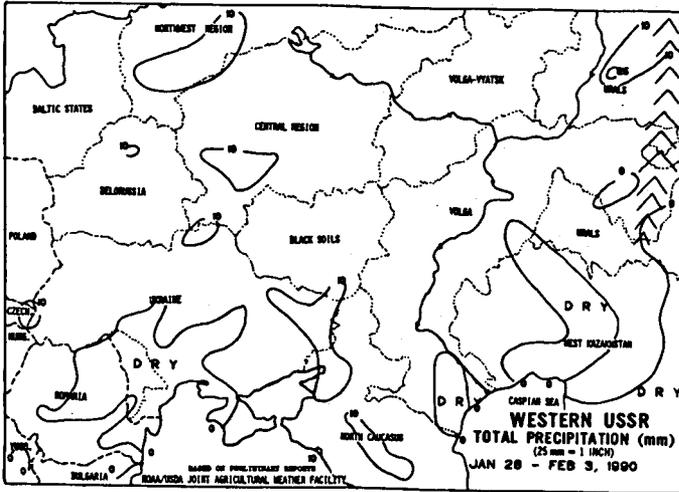
AUSTRALIA ... Tropical Cyclone Nancy brings beneficial rains to sections of the east. Remnants of Tropical Cyclone Tina continue to produce heavy rains in sections of the southwest.

NORTHWESTERN AFRICA ... The first significant precipitation since early January benefits Moroccan winter grains. Inadequate rainfall continues over crop areas in central and eastern Algeria.

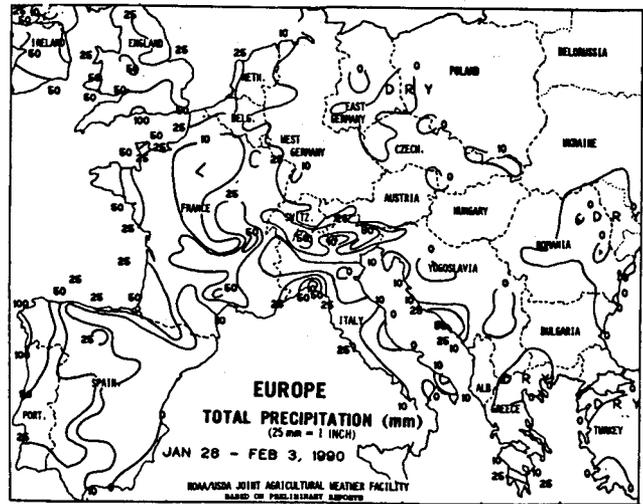
| COUNTRY CITY | TEMPERATURE | | | | | PRECIPITATION | | |
|---------------------|-------------|-----|-----|-----|-------|---------------|-------|-------|
| | AVG | AVG | HI | LO | DPART | TOTAL | DPART | |
| | MAX | MIN | MAX | MIN | F/NRM | MM | F/NRM | |
| NORWAY OSLO | 1 | -3 | 7 | -13 | -1 | 6.1 | 129.0 | 71.2 |
| SWEDEN STOCKHOLM | 2 | -1 | 7 | -7 | 1 | 3.2 | 55.8 | 16.4 |
| FINLND HELSINKI | -2 | -6 | 3 | -21 | -4 | 1.9 | 95.9 | 51.7 |
| U KING GLASGOW | 8 | 4 | 13 | -2 | 6 | 2.5 | 196.6 | 64.3 |
| EDINBURGH | 8 | 4 | 13 | 0 | 6 | 2.6 | 111.2 | 62.2 |
| BIRMINGHAM | 9 | 4 | 13 | -3 | 7 | 3.3 | 98.4 | 39.9 |
| LONDON | 9 | 4 | 12 | -4 | 7 | 3.2 | 116.8 | 41.1 |
| IRELAND DUBLIN | 10 | 5 | 14 | 1 | 7 | 2.6 | 67.7 | 0.1 |
| ICELND REYKJAVIK | 2 | -2 | 7 | -7 | 0 | 0.5 | 89.2 | 14.3 |
| DENMRK COPENHAGEN | 5 | 2 | 10 | -1 | 4 | 3.8 | 29.7 | -19.3 |
| LUXEMB LUXEMBOURG | 4 | 1 | 11 | -4 | 2 | 1.7 | 73.0 | 8.2 |
| SWITZL ZURICH | 4 | -1 | 12 | -6 | 2 | 1.8 | 34.5 | -34.0 |
| GENEVA | 5 | -1 | 13 | -6 | 2 | 1.3 | 37.9 | -38.5 |
| FRANCE PARIS | 8 | 4 | 14 | -3 | 6 | 2.5 | 27.6 | -22.8 |
| STRASBOURG | 5 | 0 | 14 | -5 | 3 | 1.9 | 12.7 | -22.6 |
| BOURGES | 8 | 2 | 14 | -5 | 5 | 1.6 | 35.4 | -25.0 |
| BORDEAUX | 11 | 4 | 17 | -5 | 8 | 2.2 | 32.9 | -66.9 |
| TOULOUSE | 11 | 1 | 19 | -6 | 6 | 1.3 | 15.9 | -40.6 |
| MARSEILLE | 13 | 2 | 17 | -2 | 8 | 1.5 | 20.4 | -24.3 |
| SPAIN VALLADOLID | 7 | 1 | 12 | -5 | 4 | 0.2 | 27.1 | -21.3 |
| MADRID | 11 | 1 | 14 | -4 | 6 | 0.6 | 30.3 | -20.3 |
| SEVILLE | 16 | 6 | 18 | 3 | 11 | 0.6 | 64.0 | -21.7 |
| E GRMY LEIPZIG | 6 | 1 | 12 | -6 | 3 | 3.7 | 7.3 | -26.5 |
| DRESDEN | 5 | 1 | 11 | -9 | 3 | 4.2 | 13.8 | -24.2 |
| W GRMY HAMBURG | 6 | 3 | 12 | -2 | 5 | 4.3 | 46.7 | -8.9 |
| BERLIN | 6 | 2 | 12 | -6 | 4 | 4.2 | 27.9 | -12.7 |
| DUSSLJXRF | 7 | 4 | 14 | 0 | 6 | 3.8 | 61.8 | -1.2 |
| STUTTGART | 5 | -2 | 13 | -10 | 2 | 2.1 | 18.2 | -30.6 |
| NURNBERG | 4 | -1 | 11 | -8 | 2 | 2.3 | 9.2 | -33.7 |
| MUNICH | 4 | -5 | 15 | -17 | -1 | 1.0 | 27.5 | -24.7 |
| AUSTRI VIENNA | 3 | -3 | 14 | -12 | 0 | 1.4 | 0.8 | -27.1 |
| INNSBRUCK | 5 | -7 | 13 | -14 | -1 | 0.4 | 7.1 | -44.3 |
| CZECH PRAGUE | 3 | -2 | 10 | -17 | 0 | 2.5 | 5.7 | -16.4 |
| POLAND WARSAW | 4 | 0 | 11 | -11 | 2 | 5.0 | 11.5 | -11.3 |
| LODZ | 4 | 0 | 10 | -9 | 2 | 4.0 | 22.8 | -15.3 |
| KATOWICE | 3 | -2 | 11 | -13 | 1 | 3.3 | 19.3 | -22.6 |
| PRZEMYSL | 3 | -2 | 10 | -12 | 1 | 3.9 | 12.5 | -19.8 |
| HUNGAR BUDAPEST | 2 | -2 | 12 | -13 | 0 | 2.1 | 15.6 | -16.0 |
| YUGOSL SARAJEVO | 3 | -7 | 15 | -16 | -2 | -0.1 | 7.5 | -63.6 |
| ROMANI BUCHAREST | 1 | -8 | 9 | -20 | -3 | -1.1 | 3.5 | -43.1 |
| BULGAR SOFIA | 1 | -7 | 13 | -20 | -3 | -0.7 | 7.6 | -19.6 |
| ITALY MILAN | 5 | -2 | 11 | -7 | 2 | 0.5 | 17.0 | -47.7 |
| VERONA | 6 | -3 | 13 | -8 | 2 | 0.6 | 17.1 | -34.5 |
| VENICE | 8 | -1 | 12 | -8 | 3 | 0.5 | 7.1 | -47.7 |
| GENOA | 13 | 7 | 16 | 0 | 10 | 2.3 | 28.1 | -61.1 |
| ROME | 13 | 3 | 17 | -2 | 8 | 0.0 | 61.0 | -17.7 |
| NAPLES | 14 | 4 | 19 | 0 | 9 | 1.3 | 37.1 | -75.8 |
| GREECE THESSALONIKA | 9 | 0 | 15 | -7 | 5 | -0.6 | 0.1 | -46.1 |
| LARISSA | 9 | -2 | 16 | -8 | 3 | -1.9 | 3.5 | -36.5 |
| ATHENS | 12 | 5 | 17 | 0 | 9 | -1.6 | 6.9 | -44.0 |
| TURKEY ISTANBUL | 7 | 2 | 13 | -4 | 5 | -0.5 | 36.6 | -49.4 |
| ANKARA | -2 | -11 | 8 | -21 | -6 | -6.6 | 4.1 | -27.9 |
| CYPRUS LARNACA | 15 | 6 | 18 | 1 | 10 | -1.5 | 38.9 | -55.1 |
| USSR TALLINN | 0 | -3 | 4 | -17 | -2 | 3.4 | 91.9 | 54.7 |
| LENINGRAD | -3 | -7 | 3 | -23 | -5 | 2.7 | 52.5 | 15.8 |
| KAUNAS | 3 | -1 | 8 | -16 | 1 | 5.7 | 49.9 | 15.7 |
| MINSK | 1 | -2 | 8 | -18 | -1 | 6.4 | 44.1 | 9.7 |
| KAZAN | -9 | -14 | 1 | -35 | -11 | 2.0 | 38.3 | 11.0 |
| MOSCOW | -4 | -7 | 3 | -27 | -5 | 4.0 | 57.3 | 15.8 |
| SVERDLOVSK | -13 | -18 | 0 | -32 | -16 | -0.5 | 21.5 | -1.0 |
| OMSK | -13 | -19 | -3 | -35 | -16 | 2.3 | 37.2 | 21.3 |
| KUSTANAY | -12 | -18 | -1 | -37 | -15 | 2.4 | 22.4 | 8.4 |
| KRASNOYARSK | -16 | -21 | -2 | -37 | -18 | -2.1 | 19.6 | 3.4 |
| NOVOSIBIRSK | -14 | -19 | -5 | -32 | -17 | 2.8 | 15.4 | -4.9 |
| BARNAUL | -12 | -18 | -3 | -29 | -15 | 0.9 | 14.8 | -8.8 |
| KHABAROVSK | -20 | -28 | -8 | -37 | -24 | -2.6 | 2.5 | -7.5 |
| VLADIVOSTOK | -12 | -18 | 3 | -27 | -15 | -1.7 | 13.1 | -1.8 |
| KIEV | 2 | -2 | 8 | -15 | 0 | 5.4 | 27.3 | -16.0 |
| LVOV | 2 | -2 | 9 | -14 | 0 | 4.3 | 21.4 | -16.4 |
| KIROVOGRAD | 1 | -3 | 7 | -18 | -1 | 4.2 | 9.6 | -25.3 |

BASED ON PRELIMINARY REPORTS

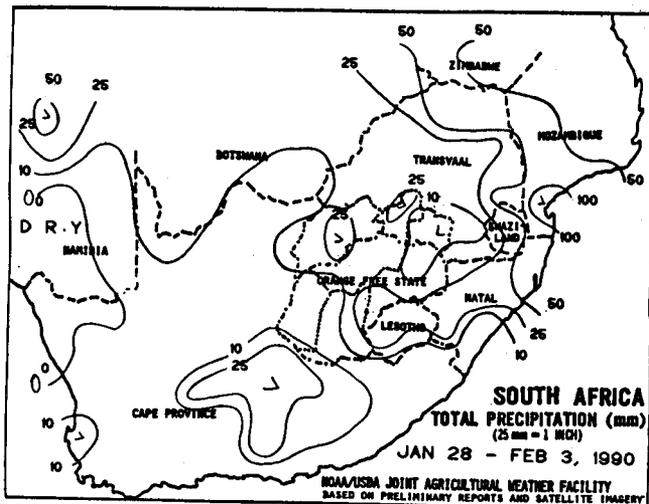
| COUNTRY CITY | TEMPERATURE (C) | | | | | PRECIPITATION (MM) | | | COUNTRY CITY | TEMPERATURE (C) | | | | | PRECIPITATION (MM) | | |
|--------------|-----------------|---------|----|-----|-------|--------------------|-------|-------|----------------|-----------------|---------|----|-----|-------|--------------------|-------|--------|
| | AVG MAX | AVG MIN | HI | LO | DPART | F/NRM | TOTAL | DPART | | AVG MAX | AVG MIN | HI | LO | DPART | F/NRM | TOTAL | DPART |
| USSR | 4 | -1 | 12 | -10 | 1 | 2.8 | 5.4 | -38.1 | TANZAN | 32 | 23 | 33 | 21 | 27 | 0.0 | 187.8 | 120.3 |
| ODESSA | 7 | 2 | 14 | -9 | 5 | 0.8 | 31.6 | -34.4 | DAR ES SALAAM | 29 | 25 | 30 | 23 | 27 | 0.0 | 121.2 | -165.8 |
| YALTA | -3 | -7 | 3 | -22 | -5 | 4.3 | 29.2 | -7.3 | GABON | 31 | 24 | 34 | 18 | 28 | 1.0 | 0.1 | -14.1 |
| VORONEZH | -6 | -10 | 2 | -25 | -8 | 3.0 | 31.6 | -3.0 | LIBREVILLE | 33 | 19 | 38 | 16 | 26 | 0.8 | 0.1 | 0.1 |
| SARATOV | -1 | -4 | 4 | -15 | -3 | 4.3 | 33.6 | -8.1 | TOGO | 30 | 24 | 32 | 19 | 27 | 0.4 | 2.4 | -19.5 |
| KHARKOV | -4 | -8 | 2 | -20 | -6 | 1.9 | 28.3 | -7.1 | B FASO | 30 | 22 | 40 | 18 | 26 | 0.1 | 241.2 | 68.4 |
| VOLGOGRAD | -1 | -5 | 5 | -16 | -3 | 1.9 | 50.7 | 3.6 | OUAGADOUGOU | 25 | 18 | 29 | 16 | 21 | 0.4 | 479.4 | 239.4 |
| ROSTOV | -2 | -7 | 4 | -16 | -4 | 1.8 | 42.7 | 28.6 | ABIDJAN | 26 | 17 | 29 | 13 | 21 | 1.0 | 264.2 | 65.3 |
| ASTRAKHAN | 4 | -3 | 12 | -19 | 1 | 0.6 | 52.5 | -13.5 | MOZAMB | 29 | 18 | 31 | 15 | 23 | 1.7 | 47.8 | -100.7 |
| KRASNODAR | -10 | -17 | -1 | -35 | -13 | 0.7 | 21.3 | -3.1 | MAPUTO | 30 | 16 | 33 | 10 | 23 | 0.3 | 102.1 | -2.9 |
| ORENBURG | -12 | -18 | -3 | -30 | -15 | 2.5 | 23.6 | 16.6 | ZAMBIA | 26 | 13 | 29 | 9 | 20 | 0.7 | 64.0 | -63.4 |
| TSELINOGRAD | -11 | -18 | -4 | -29 | -14 | -0.1 | 23.7 | 6.9 | KABWE | 26 | 13 | 33 | 8 | 19 | -0.2 | 122.8 | -11.2 |
| KARAGANDA | 5 | -1 | 11 | -10 | 2 | 0.5 | 15.0 | -5.0 | HARARE | 28 | 22 | 36 | 17 | 25 | 1.1 | 103.6 | -22.7 |
| TBILISI | 4 | -3 | 19 | -13 | 0 | 0.8 | 76.7 | 26.1 | BETHAL | 26 | 16 | 33 | 8 | 21 | 0.5 | 13.5 | 2.0 |
| TASHKENT | 7 | -1 | 16 | -8 | 3 | 0.8 | 12.6 | -12.4 | CAPE TOWN | 3 | -4 | 10 | -13 | -1 | 5.7 | 37.2 | -13.2 |
| ASHKhabAD | 11 | -1 | 16 | -11 | 5 | -1.5 | 10.0 | -34.1 | CANADA | 1 | -8 | 8 | -24 | -4 | 6.3 | 81.1 | 9.0 |
| SYRIA | 11 | 4 | 16 | -1 | 7 | -1.7 | 173.1 | 51.2 | TORONTO | -7 | -17 | 5 | -32 | -12 | 7.3 | 25.3 | 3.9 |
| ISRAEL | 27 | 14 | 32 | 9 | 20 | 2.5 | 9.7 | 1.5 | MONTREAL | -4 | -16 | 6 | -33 | -10 | 8.1 | 22.6 | 5.9 |
| PAKIST | 20 | 6 | 25 | 0 | 13 | 1.2 | 7.8 | -20.2 | WINNIPEG | -7 | -18 | 3 | -34 | -12 | 6.9 | 13.5 | -3.8 |
| INDIA | 24 | 10 | 29 | 5 | 17 | 2.4 | 0.1 | -19.6 | REGINA | 3 | -8 | 11 | -34 | -2 | 7.7 | 14.9 | -8.7 |
| AMRITSAR | 31 | 13 | 34 | 11 | 22 | 2.1 | 0.1 | -2.4 | SASKATOON | 1 | -11 | 11 | -31 | -5 | 7.0 | 5.8 | -10.4 |
| NEW DELHI | 30 | 11 | 34 | 9 | 21 | 2.6 | 1.0 | -8.1 | LETHBRIDGE | -3 | -12 | 7 | -34 | -7 | 7.3 | 14.8 | -9.7 |
| AHMEDABAD | 27 | 14 | 32 | 9 | 20 | 0.5 | 0.1 | -11.3 | CALGARY | 7 | 2 | 11 | -3 | 5 | 2.0 | 194.3 | 40.5 |
| INDORE | 31 | 16 | 34 | 12 | 23 | 1.8 | 0.1 | -0.5 | EDMONTON | 24 | 9 | 29 | 3 | 17 | 1.3 | 18.1 | 6.1 |
| CALCUTTA | 31 | 16 | 34 | 12 | 23 | 1.8 | 0.1 | -0.5 | MEXICO | 22 | 9 | 25 | 6 | 15 | 3.0 | 2.3 | -3.0 |
| VERAVAL | 34 | 17 | 37 | 11 | 26 | 2.0 | 0.1 | -0.1 | GUADALAJARA | 32 | 22 | 33 | 12 | 27 | 0.2 | 0.1 | -9.8 |
| BOMBAY | 31 | 11 | 34 | 8 | 21 | 0.1 | 0.1 | 0.1 | MEXICO CITY | 23 | 19 | 25 | 11 | 21 | 3.1 | 53.6 | -70.9 |
| POONA | 30 | 15 | 33 | 9 | 22 | 0.8 | 2.0 | -1.0 | ACAPULCO | 28 | 19 | 30 | 14 | 23 | 2.6 | 12.7 | -31.1 |
| BEGAMPET | 30 | 20 | 33 | 17 | 25 | 0.3 | 19.9 | -0.8 | ST. GEORGES | 27 | 21 | 31 | 17 | 24 | 2.3 | 6.4 | -55.6 |
| MADRAS | 33 | 21 | 36 | 17 | 27 | 0.3 | 0.1 | -5.0 | BAHAMA | 32 | 22 | 34 | 20 | 27 | 1.4 | 5.0 | -13.4 |
| MANGALORE | 18 | 15 | 22 | 9 | 16 | 0.6 | 47.4 | 20.4 | NASSAU | 28 | 25 | 28 | 21 | 26 | 1.5 | 15.8 | -57.5 |
| H KONG | -3 | -14 | 6 | -29 | -8 | 0.5 | 31.5 | 22.6 | HAVANA | 29 | 22 | 30 | 19 | 26 | 2.1 | 30.1 | -38.1 |
| HONG KONG | 0 | -6 | 8 | -17 | -3 | 2.0 | 61.6 | 44.6 | JAMAIC | 29 | 22 | 30 | 19 | 26 | 2.0 | 76.7 | -37.8 |
| PYONGYANG | -2 | -8 | 7 | -16 | -5 | -0.3 | 148.5 | 34.7 | P RICO | 29 | 23 | 29 | 21 | 26 | 2.0 | 76.7 | -37.8 |
| SEOUL | 8 | 1 | 12 | -4 | 5 | 1.2 | 63.8 | 13.6 | RAIZET | 28 | 23 | 28 | 22 | 26 | 0.1 | 39.3 | -21.8 |
| SAPORO | 9 | 2 | 16 | -1 | 5 | 0.5 | 31.5 | -22.5 | LAMENTIN | 28 | 23 | 28 | 22 | 26 | 1.4 | 35.5 | -38.0 |
| NAGoya | 9 | 2 | 16 | -2 | 6 | 0.7 | 46.0 | -15.2 | BRIDGETOWN | 19 | 8 | 21 | 3 | 14 | 1.1 | 41.9 | 6.8 |
| TOKYO | 8 | 2 | 16 | -4 | 5 | 1.7 | 48.2 | -3.0 | PORT OF SPAIN | 29 | 23 | 32 | 22 | 25 | 0.7 | 0.3 | -42.8 |
| YOKOHAMA | 9 | 3 | 18 | -3 | 6 | 1.2 | 60.0 | 8.6 | COLOMB | 27 | 24 | 29 | 21 | 26 | 0.2 | 273.0 | -150.1 |
| KYOTO | 33 | 20 | 36 | 17 | 27 | 1.9 | 0.1 | -11.4 | CARACAS | 30 | 24 | 31 | 22 | 27 | -0.7 | 60.3 | -77.7 |
| OSAKA | 33 | 24 | 35 | 21 | 28 | 2.0 | 1.0 | -9.3 | CAYENNE | 29 | 23 | 30 | 20 | 26 | -0.8 | 82.4 | 15.0 |
| THAILN | 32 | 23 | 34 | 21 | 27 | 1.2 | 139.1 | -28.8 | FORTALEZA | 30 | 20 | 34 | 18 | 25 | 2.3 | 89.0 | -195.5 |
| BANGKOK | 20 | 16 | 26 | 12 | 18 | 0.9 | 120.8 | 103.0 | RECIFE | 29 | 21 | 35 | 20 | 25 | 0.7 | 274.8 | 45.7 |
| MALAYS | -16 | -28 | 0 | -38 | -22 | -1.5 | 2.8 | -0.9 | BELO HORIZONTE | 28 | 19 | 31 | 16 | 23 | 1.7 | 191.1 | -58.8 |
| KUALA LUMPUR | -1 | -14 | 4 | -18 | -7 | 4.2 | 0.1 | -1.8 | RIO DE JANEIRO | 30 | 24 | 32 | 22 | 27 | 0.6 | 59.0 | -87.9 |
| HANOI | 2 | -9 | 9 | -13 | -4 | 3.0 | 2.4 | 1.1 | LONDRINA | 31 | 20 | 35 | 12 | 25 | 0.5 | 108.6 | -32.4 |
| HARBIN | 0 | -9 | 6 | -15 | -5 | -0.3 | 4.8 | 1.8 | SANTA MARIA | 27 | 19 | 29 | 11 | 23 | 1.2 | 0.3 | -1.0 |
| HAMI | 11 | -9 | 18 | -13 | 1 | 2.8 | 0.1 | 0.1 | PERU | 13 | 3 | 17 | 0 | 8 | -1.1 | 199.7 | 56.5 |
| LANCHOW | 16 | 2 | 20 | -1 | 9 | 1.1 | 3.2 | -8.5 | LIMA | 32 | 11 | 35 | 7 | 21 | 0.1 | 0.1 | -0.5 |
| BEIJING | 3 | -4 | 9 | -16 | -1 | -1.3 | 24.5 | 15.8 | BOLIVI | 30 | 21 | 35 | 15 | 25 | *** | 481.8 | **** |
| TIENTSIN | 7 | 2 | 13 | -3 | 5 | -0.1 | 17.5 | -2.6 | LA PAZ | 34 | 23 | 38 | 17 | 28 | 0.7 | 150.3 | 26.3 |
| LHASA | 7 | 1 | 14 | -6 | 4 | 1.2 | 53.1 | 18.1 | SANTIAGO | 33 | 19 | 39 | 10 | 26 | -0.1 | 103.1 | -23.2 |
| KUNMING | 8 | 3 | 16 | -4 | 5 | 0.5 | 58.9 | 21.6 | IGUAZU | 30 | 18 | 35 | 10 | 24 | 0.4 | 226.4 | 109.3 |
| CHENGCHOW | 8 | 3 | 15 | -3 | 5 | 1.7 | 46.6 | 2.6 | FORMOSA | 31 | 18 | 37 | 9 | 24 | 1.4 | 167.9 | 53.8 |
| YEHCHANG | 8 | 4 | 14 | -4 | 6 | 1.2 | 79.5 | 21.2 | CERES | 31 | 19 | 38 | 9 | 25 | 1.0 | 58.7 | -69.4 |
| HANKOW | 19 | 16 | 25 | 12 | 17 | 2.2 | 158.7 | 68.8 | CORDOBA | 31 | 19 | 38 | 8 | 25 | 1.4 | 187.9 | 76.7 |
| CHIHKIANG | 18 | 11 | 24 | 6 | 14 | 1.4 | 95.0 | 57.9 | RIO CUARTO | 31 | 17 | 40 | 7 | 24 | 0.2 | 82.8 | 15.6 |
| SHANGHAI | 16 | 12 | 22 | 7 | 14 | 1.2 | 47.0 | 9.0 | ROSARIO | 28 | 15 | 36 | 10 | 22 | 0.1 | 244.6 | 192.7 |
| NANCHANG | 20 | 15 | 23 | 12 | 18 | 0.6 | 1.9 | -17.7 | BUENOS AIRES | 22 | 18 | 24 | 15 | 20 | 1.3 | 42.9 | -141.1 |
| TAIPEI | 17 | 8 | 20 | 5 | 12 | -0.5 | 74.0 | 0.2 | SANTA ROSA | 30 | 23 | 34 | 21 | 27 | 1.0 | 374.8 | 260.9 |
| CANTON | 17 | 6 | 22 | 2 | 11 | -0.2 | 22.0 | -6.7 | TRES ARROYOS | 30 | 23 | 32 | 20 | 27 | 0.4 | 290.1 | -45.9 |
| NANNING | 17 | 8 | 21 | 4 | 12 | 1.4 | 50.0 | -47.7 | MIDW I | 30 | 25 | 32 | 22 | 28 | 0.7 | 241.1 | -80.8 |
| CNRY I | 9 | 3 | 12 | -2 | 6 | 1.1 | 20.8 | -19.1 | MIDWAY ISLAND | 32 | 24 | 33 | 21 | 28 | 1.1 | 128.2 | -214.5 |
| MOROCC | 16 | 9 | 20 | 4 | 12 | 1.2 | 163.0 | 99.6 | LA PAZ | 23 | 17 | 29 | 13 | 20 | 0.6 | 76.1 | 14.8 |
| CASABLANCA | 34 | 19 | 41 | 16 | 27 | 2.0 | 0.1 | 0.1 | N CALD | 30 | 24 | 32 | 23 | 27 | -0.5 | 365.4 | 161.4 |
| MARRAKECH | 28 | 14 | 34 | 9 | 21 | -0.7 | 0.1 | 0.1 | NOUMEA | 31 | 25 | 34 | 22 | 28 | -0.1 | 315.4 | -94.4 |
| ALGERI | 32 | 20 | 40 | 16 | 26 | 0.9 | 0.1 | 0.1 | NAUSORI | 35 | 22 | 41 | 13 | 28 | 1.5 | 20.8 | -61.6 |
| BATNA | 26 | 15 | 31 | 12 | 21 | -0.6 | 11.1 | 10.0 | PAGO PAGO | 28 | 21 | 31 | 17 | 24 | -0.7 | 132.6 | -48.3 |
| TUNISI | 22 | 17 | 28 | 16 | 20 | -1.5 | 12.1 | 12.1 | TAHITI | 28 | 16 | 36 | 10 | 22 | -2.7 | 65.6 | 59.3 |
| NIGER | 30 | 25 | 31 | 16 | 27 | 0.0 | 378.2 | 50.9 | PAPEETE | 28 | 16 | 48 | 12 | 22 | 0.1 | 2.2 | -7.8 |
| MALI | 17 | 9 | 21 | 5 | 13 | 0.8 | 54.2 | 1.9 | AUCKLAND | 27 | 16 | 41 | 11 | 22 | -0.5 | 11.3 | -25.7 |
| TIMBUKTU | 16 | 10 | 20 | 7 | 13 | 0.6 | 98.5 | 34.9 | MELBOURNE | 32 | 16 | 43 | 9 | 24 | 0.5 | 40.0 | -9.9 |
| BAMAKO | 18 | 9 | 25 | 5 | 14 | -0.1 | 1.6 | -1.2 | WAGGA | 27 | 13 | 39 | 7 | 20 | 0.1 | 35.2 | -24.4 |
| NOUAKCHOTT | 22 | 10 | 27 | 2 | 16 | -0.3 | 0.1 | 0.1 | CANBERRA | 31 | 22 | 33 | 19 | 26 | 0.7 | 4.6 | -8.3 |
| DAKAR | 23 | 7 | 27 | 2 | 15 | -1.7 | 3.0 | -21.9 | PHILIP | | | | | | | | |
| DIEGO GARCIA | 26 | 13 | 29 | 8 | 19 | -0.4 | | | | | | | | | | | |



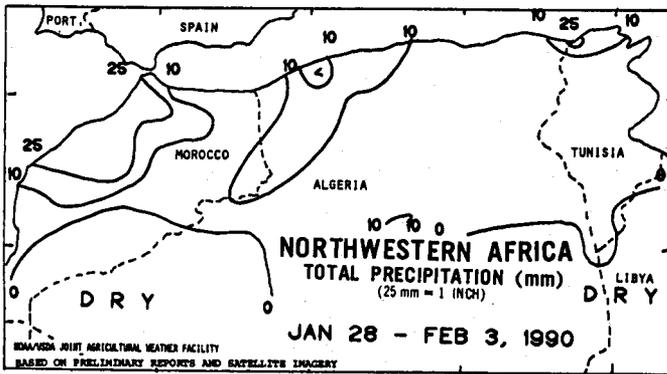
WESTERN USSR ... Unseasonably warm weather continued over most winter grain areas. Weekly average temperatures ranged from 8 to 10 degrees Celsius (C) above normal over the northern half of the region and 3 to 8 degrees C above normal in the Ukraine, North Caucasus, and the lower Volga. Most winter grain areas in the Baltic States, Belorussia, the Ukraine, North Caucasus, and the lower Volga continued to lack a protective snow cover. Snow cover decreased slightly over remaining areas. The continued mild weather pattern has caused winter grains in the extreme south to lose winter hardiness, and reports indicate vegetative growth has started in Moldavia, Krasnodar Kray, and the Crimea. Light precipitation covered most areas, except for the southwestern and southern Ukraine, where the weather was dry.



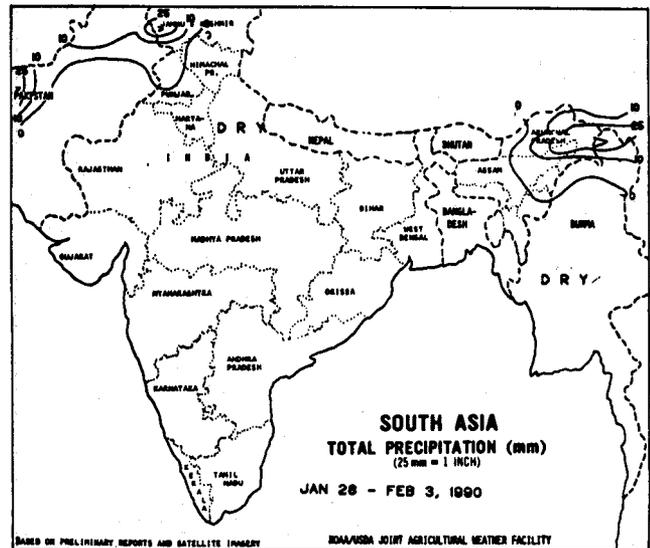
EUROPE ... A series of storms and associated frontal systems raced across northern Europe, continuing strong winds, scattered property damage, and widespread precipitation across much of the west and northwest. Heavy rain (25-80mm, with isolated amounts in excess of 100mm) fell over Ireland, Great Britain, Portugal, northwestern Spain, and coastal sections of France, Belgium, and the Netherlands, while lighter rain (5-30mm, with scattered amounts greater than 30mm) covered the remainder of the west. Beneficial rain (5-50mm, with isolated amounts greater than 50mm) fell in sections of southern France and northern Italy, where unseasonable dryness has persisted since last fall. Above-normal temperatures continued over most crop areas (from 2 to 4 degrees C above normal in the west to 5-11 degrees C above normal in the east), reducing protective snow cover to high elevations and sections of Scandinavia.



SOUTH AFRICA ... Highly variable rainfall covered the primary corn growing areas. The heaviest rain (20-40mm) continued over the southwestern Transvaal and the northwestern Orange Free State, benefiting reproductive to filling corn. Minimal rain (less than 10mm) fell over corn areas in the southwestern and northeastern Orange Free State. Temperatures averaged near normal over most of the primary corn growing areas, except for those in the southwestern Orange Free State, where temperatures averaged 1-3 degrees C above normal. Highest weekly temperatures ranging from 34 to 36 degrees C in the southwestern Orange Free State placed increased stress on corn in or nearing the filling stage.

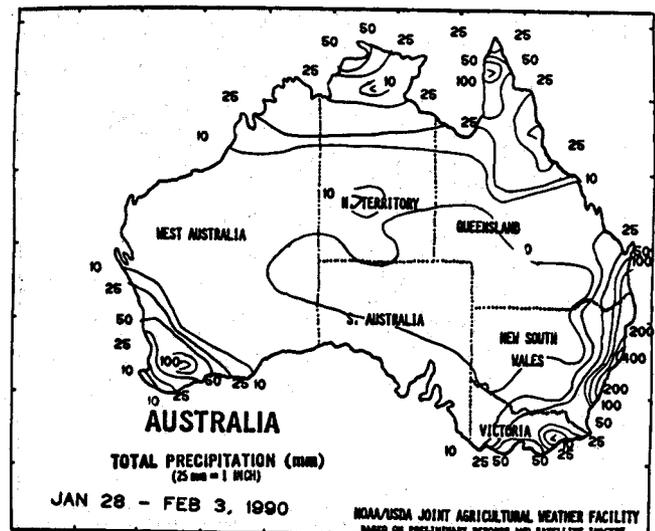


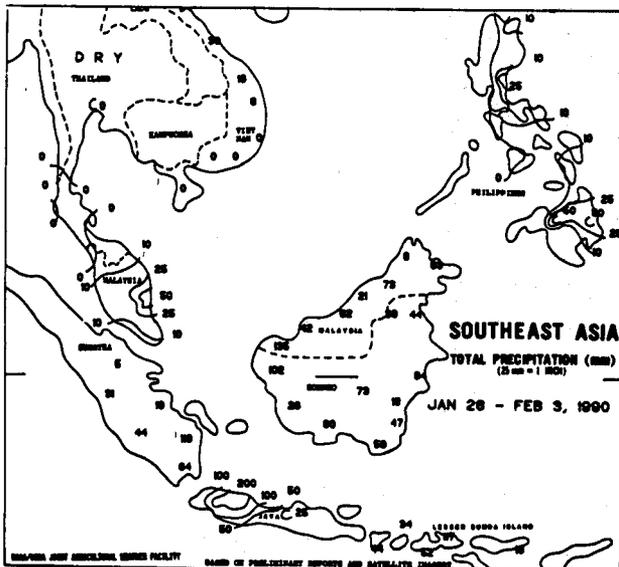
NORTHWESTERN AFRICA ... The first significant precipitation since January 4 covered Moroccan winter grain areas. Most of the rain fell on January 29, benefiting winter grains in the vegetative stage. Although light precipitation (10-19mm) favored winter grains in western Algeria, inadequate rainfall continued over crop areas in central and eastern Algeria. In Tunisia, dry weather returned to most winter grain areas, except for areas along the coast where precipitation amounts ranged from 10 to 25mm.



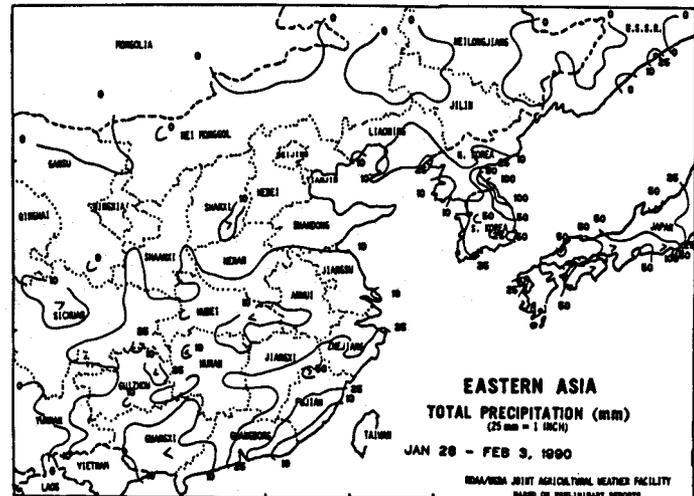
SOUTH ASIA ... Mostly dry weather continued over India. Local showers (23-59mm), however, in eastern Assam boosted irrigation reserves. Weekly average temperatures were 2-4 degrees C above normal in central India and near normal elsewhere. The warm, dry weather promoted summer rice planting in southern India and benefited cotton harvesting in central areas. Wheat is normally grain filling in central India and in or nearing the heading stage further north. In Pakistan, seasonable temperatures accompanied dry weather.

AUSTRALIA ... Tropical Cyclone Nancy moved just offshore of southeastern Queensland on the 2nd, bringing gusty winds and highly variable but beneficial rain (10-150mm, with scattered amounts greater than 150mm) to sections of southeastern Queensland, and coastal New South Wales and Victoria on the 3rd as it moved southward. Torrential rains (200-412mm) along sections of central coastal New South Wales likely caused flooding. The rain greatly benefited vegetative sugarcane in coastal areas and vegetative to filling summer crops in some interior crop areas of New South Wales and southeastern Queensland. However, most interior summer crop areas remained hot and unfavorably dry. Seasonal rains, which normally reach a maximum over summer crop areas in January and February, have been unusually light for much of the season thus far. In the west, remnants of Tropical Cyclone Tina continued to produce heavy rain (25-100mm, with isolated amounts greater than 100mm) over most winter grain areas, helping to replenish off-season subsoil moisture.

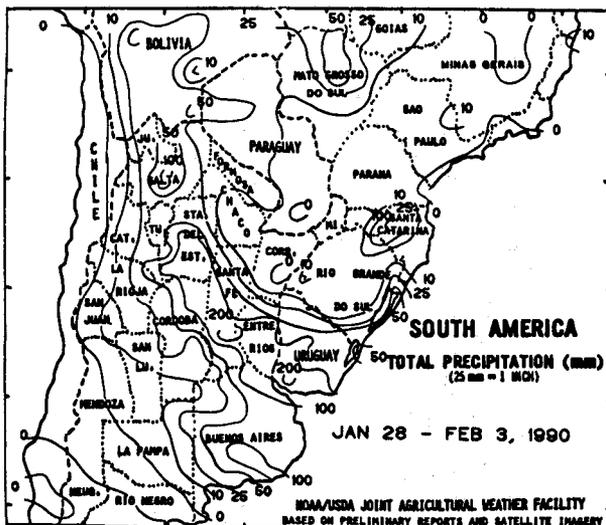




SOUTHEAST ASIA ... Heavy rain (25-100mm, with scattered amounts in excess of 100mm) persisted across much of Java, southeastern Sumatra, southern peninsular Malaysia, and the lesser Sunda Islands, keeping soils saturated. Torrential rain (150-250mm) over already wet soils of northwestern Java likely caused flooding. Heavy seasonal rain (25-80mm, with isolated amounts in excess of 80mm) also fell over Sarawak and Borneo. Most of interior Indo China remained seasonably dry. In the Philippines, moderate to heavy rain (10-35mm, with isolated amounts greater than 35mm) fell in eastern sections of Mindanao and Luzon, while western crop areas remained mostly dry.



EASTERN ASIA ... Unseasonably cold temperatures (weekly mean temperatures from 2 to 7 degrees C below normal) continued over much of China for the second consecutive week, with freezing temperatures as far south as northern Guangxi. Light to moderate snow (5-20mm liquid equivalent) fell over much of the North China Plain and northern Yangtze Valley, providing at least scattered protective cover for dormant and semidormant winter crops. Widespread moderate to heavy rain (10-40mm, with scattered amounts greater than 40mm) covered the remainder of southern China and Taiwan. In the northeast, unusually heavy snow and rain (25-80mm, with isolated amounts in excess of 100mm) fell across sections of the Korean Peninsula and Honshu, Kyushu, and Hokkaido in Japan.



SOUTH AMERICA ... In Argentina, widespread showers fell over most summer crop areas, improving soil moisture and breaking the hot spell that prevailed during the previous week. Locally heavy rain (50-100mm, with several scattered areas receiving 100-241mm) soaked all but northwestern and extreme western Buenos Aires, most of southern Santa Fe, and northeastern Cordoba. Beneficial, but lighter rain (10-25mm) covered most remaining crop areas. The moisture was extremely beneficial for grain-forming corn and flowering soybeans. Light showers (3-13mm) fell in northern cotton areas. In south-central Brazil, welcomed, drier weather prevailed over most soybean areas, following last week's drenching in the south. Soil moisture is adequate for flowering soybeans. Beneficial rain (20-64mm) fell in northern Mato Grosso do Sul. Little or no rain (0-11mm) fell in Sao Paulo and Minas Gerais.

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