

(Continued from front cover)

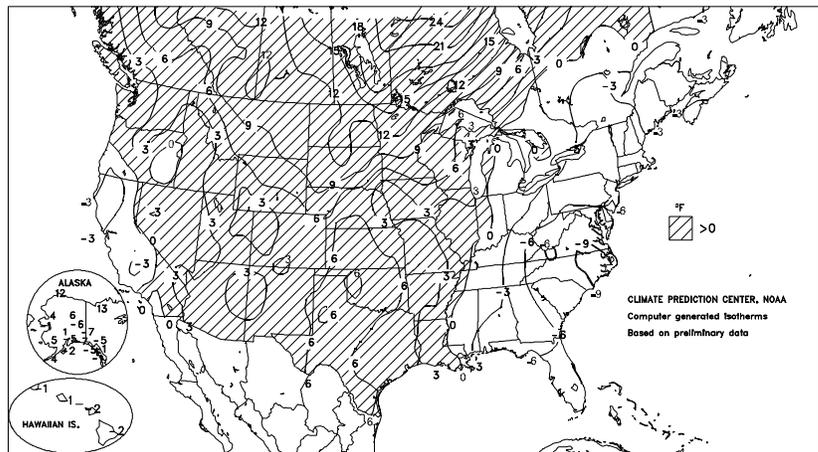
underway. Farther east, late-week rainfall (generally 1 to 2 inches) kept soil moisture at adequate to locally surplus levels from the **Ohio Valley** southward to the **Delta**. Beneficial showers overspread the **southern Atlantic Coast States**, including portions of **Peninsular Florida**, at week's end. For the seventh consecutive week, temperatures averaged above normal on the **Plains**, helping winter wheat to begin breaking dormancy as far north as **southern and western Nebraska**. Departures on the **Plains** ranged from +3 to +13°F. In contrast, colder weather overspread the **East**, holding temperatures as much as 10°F below normal in the **Mid-Atlantic region**. Sub-freezing temperatures again reached **northern Florida** (on February 22-23), but remained north of citrus- and vegetable-producing areas. Farther north, a February 25-26 snow storm buried areas from **eastern Long Island** to **eastern New England** with as much as 1 to 2 feet of snow. In **northern California**, cool weather (as much as 5°F below normal) lingered for a fifth consecutive week.

In the **Northwest**, more than 1 inch of rain soaked **Olympia, WA** on Monday (1.17 inches), Wednesday (1.98 inches), and Saturday (1.50 inches), boosting their monthly precipitation to a February-record 15.50 inches. **Olympia** netted more than 10 inches of precipitation for a fourth consecutive month, breaking their November-February rainfall record (42.03 inches in 1949-50) by more than 13 inches. **Olympia's** 4-month total (55.70 inches) also surpassed their normal annual rainfall (50.59 inches). Elsewhere in **western Washington**, **Seattle** also posted a record November-February total (34.39 inches), while **Quillayute** received both November-February (88.93 inches) and February-record totals (26.20 inches). Measurable rain fell in **Seattle** on 90 of the 120 days from November 1 to February 28, breaking a 1958-59 standard by 3 days. **Western Washington's Chehalis River** crested on Thursday at 4.6 feet above flood stage at **Centralia** and 2.9 feet above near **Grand Mound**.

During the first 2 months of 1999, rainfall totaled only 0.01 inch in **Tucson, AZ** and 0.09 inch in **San Antonio, TX**. Despite recent dryness across the **Southwest**, reservoir storage on February 1 stood at 159 percent of average in **New Mexico** and 94 percent in **Arizona**. In **Texas**, no February precipitation fell in **Midland** for the first time since 1947, and in **Abilene** since 1909. February rainfall was the lowest since 1916 in **San Antonio** (0.01 inch) and **Austin** (0.03 inch). In addition, many locations in the **South-Central States** experienced their warmest February since 1976, including **San Antonio, Midland, and Wichita, KS**. With an average temperature of 62.3°F, **Austin** logged their warmest February on record. During the week, temperatures surged above 70°F as far north as **Rapid City, SD** (72°F on Thursday, 3°F shy of their February record). **Chanute, KS** noted a daily-record high (75°F) on Friday, followed a day later by a high of 87°F in **Austin**.

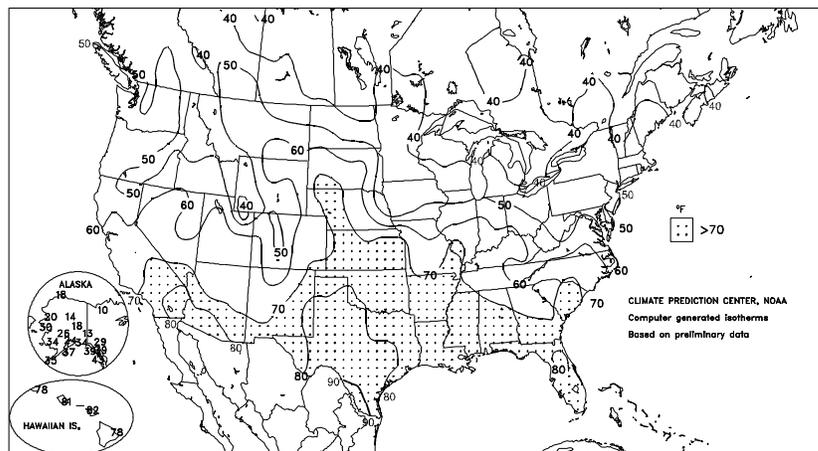
Departure of Average Temperature from Normal (°F)

FEB 21 - 27, 1999



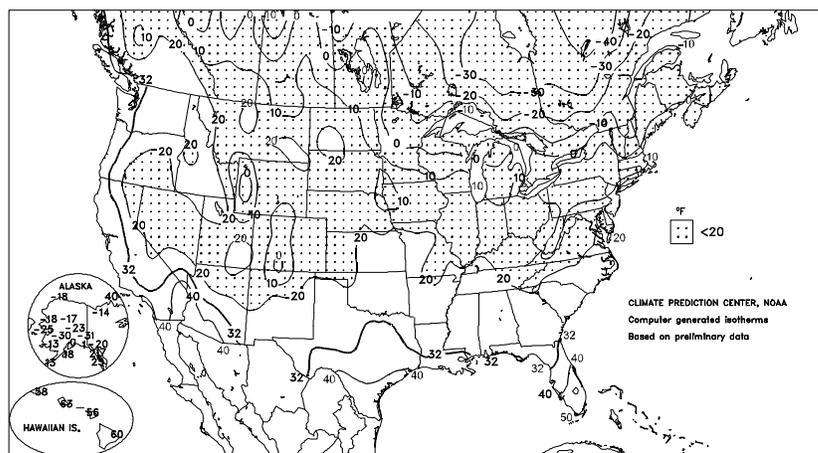
Extreme Maximum Temperature (°F)

FEB 21 - 27, 1999



Extreme Minimum Temperature (°F)

FEB 21 - 27, 1999



In **Indiana**, **Indianapolis** rainfall totaled 0.77 inch on February 27, helping to raise their February precipitation to 3.57 inches (145 percent of normal) and year-to-date total to 9.92 inches (208 percent). **Chattanooga, TN** recorded 1.46 inches on Saturday, lifting their February total to 3.76 inches (78 percent of normal),

(Continued on back cover)

National Weather Data for Selected Cities

Weather Data for the Week Ending February 27, 1999

Data Provided by Climate Prediction Center (301-763-8000 EXT. 7503) and the Southern Regional Climate Center

| STATES AND STATIONS | TEMPERATURE °F | | | | | | PRECIPITATION | | | | | | | | RELATIVE HUMIDITY, PERCENT | | NUMBER OF DAYS | | | | |
|---------------------|-----------------|-----------------|--------------|-------------|---------|-----------------------|-------------------|-----------------------|--------------------------|-----------------------|-------------------------|-----------------------|-------------------------|-----------------|----------------------------|--------------|----------------|------------------|-----------------|------------------|-----------------|
| | AVERAGE MAXIMUM | AVERAGE MINIMUM | EXTREME HIGH | EXTREME LOW | AVERAGE | DEPARTURE FROM NORMAL | WEEKLY TOTAL, IN. | DEPARTURE FROM NORMAL | GREATEST IN 24-HOUR, IN. | TOTAL IN, SINCE Dec 1 | PCT. NORMAL SINCE Dec 1 | TOTAL IN, SINCE Jan 1 | PCT. NORMAL SINCE Jan 1 | AVERAGE MAXIMUM | AVERAGE MINIMUM | 90 AND ABOVE | 32 AND BELOW | TEMP. °F | | PRECIP | |
| | | | | | | | | | | | | | | | | | | .01 INCH OR MORE | 50 INCH OR MORE | .01 INCH OR MORE | 50 INCH OR MORE |
| AL | BIRMINGHAM | 56 | 36 | 70 | 22 | 46 | -2 | 0.94 | -0.32 | 0.88 | 17.39 | 118 | 11.11 | 115 | 88 | 39 | 0 | 3 | 3 | 1 | |
| | HUNTSVILLE | 53 | 34 | 68 | 22 | 44 | -2 | 1.32 | 0.00 | 1.28 | 19.31 | 123 | 12.18 | 124 | 86 | 41 | 0 | 3 | 3 | 1 | |
| | MOBILE | 66 | 40 | 76 | 29 | 53 | -3 | 0.55 | -0.92 | 0.43 | 8.43 | 55 | 6.23 | 62 | 94 | 44 | 0 | 1 | 3 | 0 | |
| | MONTGOMERY | 61 | 35 | 76 | 28 | 48 | -4 | 0.47 | -1.00 | 0.39 | 6.98 | 46 | 4.96 | 50 | 87 | 37 | 0 | 4 | 3 | 0 | |
| AK | ANCHORAGE | 22 | 9 | 24 | 0 | 15 | -5 | 0.02 | -0.17 | 0.00 | 1.91 | 73 | 0.44 | 29 | 94 | 59 | 0 | 7 | 1 | 0 | |
| | BARROW | -1 | -11 | 18 | -18 | -6 | 12 | 0.06 | 0.03 | 0.02 | 0.70 | 200 | 0.23 | 100 | 85 | 66 | 0 | 7 | 4 | 0 | |
| | FAIRBANKS | 9 | -19 | 18 | -23 | -5 | -6 | 0.03 | -0.08 | 0.02 | 1.24 | 72 | 0.73 | 82 | 86 | 63 | 0 | 7 | 2 | 0 | |
| | JUNEAU | 36 | 23 | 39 | 17 | 29 | -1 | 0.39 | -0.49 | 0.22 | 16.25 | 129 | 10.75 | 132 | 98 | 57 | 0 | 7 | 3 | 0 | |
| | KODIAK | 33 | 25 | 37 | 18 | 29 | -2 | 1.11 | -0.08 | 1.00 | 16.17 | 84 | 11.65 | 93 | 86 | 59 | 0 | 6 | 4 | 1 | |
| | NOME | 10 | -4 | 30 | -25 | 3 | -1 | 0.01 | -0.13 | 0.00 | 3.19 | 143 | 2.15 | 156 | 89 | 58 | 0 | 7 | 1 | 0 | |
| AZ | FLAGSTAFF | 54 | 20 | 58 | 15 | 37 | 4 | 0.00 | -0.56 | 0.00 | 0.48 | 24 | 1.26 | 20 | 67 | 18 | 0 | 7 | 0 | 0 | |
| | PHOENIX | 77 | 51 | 80 | 46 | 64 | 5 | 0.00 | -0.19 | 0.00 | 0.87 | 38 | 0.19 | 14 | 40 | 13 | 0 | 0 | 0 | 0 | |
| | TUCSON | 74 | 44 | 80 | 38 | 59 | 3 | 0.00 | -0.17 | 0.00 | 0.46 | 18 | 0.02 | 1 | 28 | 9 | 0 | 0 | 0 | 0 | |
| | YUMA | 78 | 53 | 81 | 50 | 66 | 4 | 0.00 | -0.06 | 0.00 | 0.78 | 76 | 0.60 | 107 | 43 | 12 | 0 | 0 | 0 | 0 | |
| AR | FORT SMITH | 62 | 38 | 73 | 26 | 50 | 5 | 0.02 | -0.74 | 0.01 | 6.47 | 87 | 3.43 | 78 | 81 | 35 | 0 | 4 | 2 | 0 | |
| | LITTLE ROCK | 61 | 37 | 75 | 23 | 49 | 3 | 0.26 | -0.73 | 0.09 | 11.38 | 97 | 8.02 | 117 | 90 | 45 | 0 | 3 | 2 | 0 | |
| CA | BAKERSFIELD | 60 | 39 | 71 | 36 | 50 | -5 | 0.12 | -0.16 | 0.09 | 5.02 | 201 | 4.48 | 238 | 93 | 47 | 0 | 0 | 2 | 0 | |
| | EUREKA | 54 | 44 | 60 | 38 | 49 | 0 | 2.94 | 1.76 | 0.93 | 19.02 | 115 | 13.61 | 129 | 87 | 65 | 0 | 0 | 7 | 2 | |
| | FRESNO | 61 | 40 | 68 | 35 | 50 | -2 | 0.34 | -0.10 | 0.21 | 4.99 | 98 | 4.32 | 117 | 95 | 42 | 0 | 0 | 2 | 0 | |
| | LOS ANGELES | 67 | 51 | 76 | 48 | 59 | 1 | 0.00 | -0.61 | 0.00 | 3.00 | 46 | 2.35 | 49 | 77 | 36 | 0 | 0 | 0 | 0 | |
| | REDDING | 53 | 41 | 57 | 34 | 47 | -5 | 1.05 | 0.00 | 0.52 | 12.73 | 80 | 10.53 | 102 | 94 | 62 | 0 | 0 | 6 | 1 | |
| | SACRAMENTO | 58 | 42 | 63 | 35 | 50 | -2 | 0.31 | -0.35 | 0.22 | 7.59 | 84 | 6.94 | 107 | 97 | 54 | 0 | 0 | 4 | 0 | |
| | SAN DIEGO | 66 | 52 | 71 | 48 | 59 | 0 | 0.00 | -0.39 | 0.00 | 2.86 | 58 | 2.26 | 68 | 83 | 45 | 0 | 0 | 0 | 0 | |
| | SAN FRANCISCO | 56 | 44 | 60 | 42 | 50 | -3 | 0.63 | -0.11 | 0.41 | 8.44 | 80 | 7.46 | 100 | 95 | 57 | 0 | 0 | 4 | 0 | |
| CO | ALAMOSA | 48 | 10 | 57 | 2 | 29 | 3 | 0.00 | -0.08 | 0.00 | 0.16 | 16 | 0.15 | 28 | 69 | 13 | 0 | 7 | 0 | 0 | |
| | CO SPRINGS | 52 | 26 | 63 | 20 | 39 | 6 | 0.04 | -0.09 | 0.04 | 0.31 | 27 | 0.16 | 24 | 49 | 16 | 0 | 6 | 1 | 0 | |
| | DENVER | 54 | 26 | 64 | 15 | 40 | 5 | 0.03 | -0.15 | 0.03 | 0.90 | 54 | 0.54 | 52 | 59 | 17 | 0 | 6 | 1 | 0 | |
| | GRAND JUNCTION | 51 | 25 | 64 | 16 | 38 | 0 | 0.02 | -0.12 | 0.02 | 0.64 | 39 | 0.38 | 37 | 64 | 19 | 0 | 6 | 1 | 0 | |
| | PUEBLO | 60 | 22 | 71 | 12 | 41 | 4 | 0.00 | -0.10 | 0.00 | 0.45 | 44 | 0.12 | 20 | 52 | 13 | 0 | 7 | 0 | 0 | |
| CT | BRIDGEPORT | 35 | 23 | 46 | 12 | 29 | -3 | 0.12 | -0.67 | 0.12 | 10.31 | 107 | 9.26 | 151 | 76 | 35 | 0 | 7 | 1 | 0 | |
| | HARTFORD | 34 | 18 | 47 | 6 | 26 | -4 | 0.11 | -0.72 | 0.05 | 8.96 | 86 | 8.13 | 125 | 67 | 31 | 0 | 7 | 3 | 0 | |
| DC | WASHINGTON | 39 | 26 | 51 | 20 | 33 | -7 | 0.14 | -0.57 | 0.01 | 9.17 | 108 | 7.43 | 139 | 79 | 41 | 0 | 7 | 2 | 0 | |
| DE | WILMINGTON | 38 | 22 | 48 | 14 | 30 | -6 | 0.05 | -0.71 | 0.00 | 9.31 | 100 | 8.27 | 141 | 72 | 32 | 0 | 7 | 2 | 0 | |
| FL | DAYTONA BEACH | 66 | 42 | 80 | 38 | 54 | -6 | 0.02 | -0.77 | 0.00 | 6.76 | 81 | 5.41 | 94 | 94 | 44 | 0 | 0 | 1 | 0 | |
| | JACKSONVILLE | 62 | 38 | 78 | 30 | 50 | -7 | 0.05 | -0.94 | 0.03 | 6.35 | 65 | 5.93 | 84 | 92 | 39 | 0 | 1 | 1 | 0 | |
| | KEY WEST | 70 | 59 | 78 | 55 | 65 | -7 | 0.01 | -0.43 | 0.01 | 5.70 | 98 | 4.10 | 109 | 84 | 57 | 0 | 0 | 1 | 0 | |
| | MIAMI | 73 | 53 | 78 | 51 | 63 | -6 | 0.00 | -0.53 | 0.00 | 5.19 | 88 | 3.21 | 80 | 89 | 36 | 0 | 0 | 0 | 0 | |
| | ORLANDO | 70 | 43 | 81 | 40 | 56 | -6 | 0.11 | -0.70 | 0.00 | 4.04 | 55 | 3.42 | 66 | 95 | 38 | 0 | 0 | 1 | 0 | |
| | PENSACOLA | 65 | 42 | 74 | 31 | 53 | -2 | 0.07 | -1.34 | 0.01 | 10.69 | 75 | 6.33 | 64 | 95 | 44 | 0 | 1 | 1 | 0 | |
| | TALLAHASSEE | 65 | 35 | 78 | 26 | 50 | -5 | 0.04 | -1.45 | 0.02 | 7.31 | 48 | 5.64 | 56 | 91 | 35 | 0 | 3 | 2 | 0 | |
| | TAMPA | 66 | 45 | 76 | 39 | 56 | -7 | 0.10 | -0.73 | 0.00 | 4.20 | 59 | 3.28 | 67 | 92 | 41 | 0 | 0 | 1 | 0 | |
| | WEST PALM BEACH | 72 | 49 | 78 | 45 | 61 | -7 | 0.19 | -0.53 | 0.17 | 12.48 | 159 | 8.57 | 160 | 92 | 40 | 0 | 0 | 3 | 0 | |
| GA | ATHENS | 53 | 31 | 66 | 22 | 42 | -6 | 0.14 | -1.03 | 0.03 | 10.13 | 78 | 8.28 | 93 | 83 | 34 | 0 | 5 | 3 | 0 | |
| | ATLANTA | 53 | 34 | 66 | 24 | 44 | -4 | 0.36 | -0.91 | 0.28 | 9.51 | 69 | 7.71 | 82 | 79 | 33 | 0 | 4 | 3 | 0 | |
| | AUGUSTA | 55 | 30 | 71 | 24 | 42 | -7 | 0.04 | -1.07 | 0.02 | 9.66 | 84 | 8.29 | 102 | 92 | 34 | 0 | 5 | 1 | 0 | |
| | COLUMBUS | 60 | 39 | 73 | 29 | 49 | -2 | 0.30 | -0.99 | 0.25 | 7.67 | 54 | 6.07 | 66 | 77 | 35 | 0 | 1 | 2 | 0 | |
| | MACON | 58 | 36 | 70 | 27 | 47 | -4 | 0.02 | -1.19 | 0.01 | 9.55 | 71 | 8.03 | 88 | 86 | 37 | 0 | 2 | 2 | 0 | |
| | SAVANNAH | 58 | 35 | 75 | 28 | 46 | -8 | 0.17 | -0.65 | 0.09 | 10.38 | 107 | 8.06 | 120 | 95 | 37 | 0 | 4 | 3 | 0 | |
| HI | HILO | 76 | 63 | 78 | 60 | 70 | -2 | 8.91 | 6.11 | 4.41 | 46.45 | 146 | 36.14 | 183 | 93 | 65 | 0 | 0 | 3 | 2 | |
| | HONOLULU | 79 | 66 | 81 | 63 | 73 | -1 | 0.19 | -0.31 | 0.17 | 3.01 | 32 | 2.69 | 47 | 85 | 52 | 0 | 0 | 2 | 0 | |
| | KAHULUI | 80 | 60 | 82 | 56 | 70 | -2 | 0.60 | -0.06 | 0.56 | 5.20 | 51 | 4.04 | 58 | 91 | 49 | 0 | 0 | 2 | 1 | |
| | LIHUE | 76 | 66 | 78 | 58 | 71 | -1 | 0.10 | -0.67 | 0.07 | 8.03 | 56 | 5.67 | 62 | 91 | 65 | 0 | 0 | 2 | 0 | |
| ID | BOISE | 46 | 34 | 56 | 29 | 40 | 2 | 0.48 | 0.22 | 0.16 | 4.83 | 127 | 3.19 | 130 | 88 | 44 | 0 | 3 | 5 | 0 | |
| | LEWISTON | 47 | 36 | 55 | 31 | 42 | 1 | 0.69 | 0.47 | 0.29 | 3.30 | 98 | 2.30 | 106 | 79 | 46 | 0 | 2 | 6 | 0 | |
| | POCATELLO | 44 | 29 | 55 | 23 | 36 | 5 | 0.12 | -0.13 | 0.04 | 3.74 | 124 | 3.02 | 157 | 86 | 47 | 0 | 5 | 2 | 0 | |
| IL | CHICAGO/O'HARE | 38 | 25 | 48 | 18 | 31 | 3 | 0.69 | 0.28 | 0.37 | 7.34 | 138 | 6.14 | 217 | 85 | 48 | 0 | 6 | 3 | 0 | |
| | MOLINE | 38 | 22 | 52 | 15 | 30 | 2 | 0.46 | 0.07 | 0.34 | 5.18 | 105 | 4.00 | 148 | 93 | 58 | 0 | 6 | 4 | 0 | |
| | PEORIA | 39 | 25 | 56 | 17 | 32 | 2 | 0.26 | -0.17 | 0.14 | 5.97 | 112 | 4.22 | 147 | 94 | 61 | 0 | 6 | 3 | 0 | |
| | ROCKFORD | 37 | 22 | 48 | 13 | 30 | 4 | 0.35 | 0.00 | 0.16 | 5.31 | 120 | 4.40 | 184 | 90 | 56 | 0 | 6 | 4 | 0 | |
| | SPRINGFIELD | 41 | 26 | 60 | 17 | 34 | 1 | 0.34 | -0.20 | 0.30 | 4.74 | 80 | 4.10 | 128 | 91 | 59 | 0 | 6 | 2 | 0 | |
| IN | EVANSVILLE | 45 | 30 | 64 | 20 | 37 | 0 | 0.51 | -0.40 | 0.33 | 11.23 | 121 | 7.75 | 137 | 92 | 47 | 0 | 5 | 2 | 0 | |
| | FORT WAYNE | 36 | 20 | 52 | 11 | 28 | -1 | 1.12 | 0.58 | 0.91 | 6.39 | 97 | 5.30 | 143 | 88 | 57 | 0 | 6 | 3 | 1 | |
| | INDIANAPOLIS | 39 | 27 | 59 | 19 | 33 | 0 | 1.03 | 0.32 | 0.75 | 10.91 | 136 | 9.91 | 212 | 90 | 46 | 0 | 6 | 3 | 1 | |
| | SOUTH BEND | 36 | 20 | 47 | 13 | 28 | -1 | 0.32 | -0.21 | 0.20 | 6.71 | 91 | 4.67 | 115 | 87 | 48 | 0 | 6 | 3 | 0 | |
| IA | BURLINGTON | 42 | 25 | 57 | 18 | 33 | 3 | 0.08 | -0.30 | 0.03 | 5.94 | 138 | 4.30 | 185 | 86 | 53 | 0 | 6 | 4 | 0 | |
| | CEDAR RAPIDS | 37 | 21 | 49 | 14 | 29 | 3 | 0.02 | -0.31 | 0.00 | 2.80 | 79 | 2.31 | 117 | 93 | 59 | 0 | 6 | 1 | 0 | |
| | DES MOINES | 37 | 24 | 47 | 13 | 30 | 2 | 0.15 | -0.20 | 0.08 | 2.12 | 64 | 1.72 | 86 | 95 | 63 | 0 | 6 | 4 | 0 | |
| | DUBUQUE | 36 | 22 | 45 | 15 | 29 | 4 | 0.35 | -0.07 | 0.21 | 2.72 | 61 | 2.57 | 103 | 90 | 56 | 0 | 6 | 4 | 0 | |
| | SIoux CITY | 34 | 19 | 40 | 4 | 26 | -1 | 0.09 | -0.16 | 0.08 | 0.89 | 45 | 0.77 | 64 | 95 | 68 | 0 | 7 | 2 | 0 | |
| | WATERLOO | 38 | 23 | 47 | 15 | 30 | 6 | 0.04 | -0.31 | 0.03 | 2.27 | 73 | 1.99 | 110 | 93 | 56 | 0 | 6 | 2 | 0 | |
| KS | CONCORDIA | 52 | 28 | 69 | 21 | 40 | 6 | 0.08 | -0.20 | 0.04 | 1.02 | 48 | 0.93 | 73 | 90 | 42 | 0 | 5 | 2 | 0 | |
| | DODGE CITY | 62 | 29 | 73 | 17 | 45 | 8 | 0.00 | -0.21 | 0.00 | 2.28 | 132 | 1.98 | 185 | 73 | 24 | 0 | 6 | 0 | 0 | |
| | GOODLAND | 55 | 22 | 67 | 14 | 39 | 5 | 0.00 | -0.14 | 0.00 | 0.77 | 67 | 0.65 | 88 | 67 | 20 | 0 | 7 | 0 | 0 | |
| | TOPEKA | 52 | 29 | 76 | 23 | 41 | 5 | 0.06 | -0.28 | 0.05 | 3.47 | 103 | 2.25 | 116 | 92 | 49 | 0 | 5 | 1 | 0 | |

Weather Data for the Week Ending February 27, 1999

| 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 | 90 AND ABOVE | 32 AND BELOW | TEMP. °F | | PRECIP | |
| | | | | | | | | | | | | | | | | | | .01 INCH OR MORE | 50 INCH OR MORE | | |
| KY WICHITA | 57 | 33 | 73 | 26 | 45 | 7 | 0.02 | -0.32 | 0.00 | 3.03 | 104 | 1.97 | 115 | 81 | 34 | 0 | 5 | 1 | 0 | | |
| KY JACKSON | 41 | 27 | 62 | 17 | 34 | -6 | 1.11 | 0.09 | 0.63 | 14.57 | 123 | 9.41 | 127 | 84 | 45 | 0 | 6 | 5 | 1 | | |
| KY LEXINGTON | 41 | 26 | 61 | 16 | 34 | -4 | 0.65 | -0.25 | 0.44 | 11.60 | 117 | 8.37 | 141 | 94 | 50 | 0 | 6 | 4 | 0 | | |
| KY LOUISVILLE | 44 | 30 | 62 | 21 | 37 | -2 | 0.71 | -0.22 | 0.58 | 12.36 | 128 | 9.09 | 150 | 93 | 46 | 0 | 5 | 3 | 1 | | |
| KY PADUCAH | 50 | 31 | 68 | 19 | 41 | 1 | 0.37 | -0.70 | 0.23 | 11.59 | 99 | 7.89 | 113 | 90 | 41 | 0 | 3 | 2 | 0 | | |
| LA BATON ROUGE | 68 | 41 | 77 | 30 | 54 | -1 | 0.50 | -0.87 | 0.50 | 10.54 | 67 | 6.96 | 68 | 90 | 42 | 0 | 1 | 1 | 1 | | |
| LA LAKE CHARLES | 69 | 46 | 77 | 32 | 57 | 1 | 0.23 | -0.61 | 0.23 | 10.31 | 79 | 6.70 | 84 | 99 | 50 | 0 | 1 | 1 | 0 | | |
| LA NEW ORLEANS | 68 | 45 | 77 | 36 | 56 | 0 | 0.63 | -0.86 | 0.57 | 6.36 | 38 | 4.11 | 38 | 87 | 46 | 0 | 0 | 2 | 1 | | |
| LA SHREVEPORT | 68 | 43 | 78 | 30 | 55 | 4 | 0.04 | -0.92 | 0.04 | 19.66 | 167 | 13.42 | 174 | 95 | 41 | 0 | 1 | 1 | 0 | | |
| ME CARIBOU | 23 | 0 | 35 | -13 | 12 | -3 | 0.07 | -0.42 | 0.06 | 6.46 | 86 | 4.89 | 115 | 80 | 44 | 0 | 7 | 2 | 0 | | |
| ME PORTLAND | 32 | 16 | 45 | 6 | 24 | -2 | 0.10 | -0.75 | 0.07 | 10.19 | 90 | 8.63 | 128 | 66 | 30 | 0 | 7 | 2 | 0 | | |
| MD BALTIMORE | 37 | 22 | 50 | 18 | 30 | -7 | 0.15 | -0.65 | 0.04 | 8.14 | 86 | 6.87 | 113 | 75 | 37 | 0 | 7 | 3 | 0 | | |
| MA BOSTON | 34 | 21 | 47 | 8 | 27 | -5 | 0.11 | -0.80 | 0.11 | 10.15 | 92 | 8.56 | 121 | 71 | 36 | 0 | 7 | 1 | 0 | | |
| MA WORCESTER | 31 | 16 | 43 | 5 | 24 | -3 | 0.17 | -0.72 | 0.12 | 10.00 | 90 | 8.54 | 122 | 66 | 32 | 0 | 7 | 2 | 0 | | |
| MI ALPENA | 27 | 6 | 37 | -10 | 17 | -4 | 0.01 | -0.34 | 0.01 | 4.83 | 99 | 3.43 | 120 | 88 | 60 | 0 | 7 | 1 | 0 | | |
| MI GRAND RAPIDS | 34 | 19 | 43 | 10 | 27 | 0 | 0.27 | -0.14 | 0.16 | 6.09 | 101 | 4.89 | 153 | 87 | 48 | 0 | 6 | 3 | 0 | | |
| MI HOUGHTON LAKE | 31 | 9 | 39 | -5 | 20 | 0 | 0.05 | -0.28 | 0.04 | 3.99 | 87 | 2.95 | 113 | 91 | 49 | 0 | 7 | 2 | 0 | | |
| MI LANSING | 33 | 14 | 41 | 5 | 24 | -2 | 0.34 | -0.05 | 0.25 | 4.55 | 89 | 3.37 | 121 | 89 | 51 | 0 | 7 | 3 | 0 | | |
| MI MARQUETTE | 27 | 8 | 34 | -19 | 18 | 2 | 0.03 | -0.45 | 0.02 | 8.48 | 132 | 6.88 | 179 | 88 | 55 | 0 | 7 | 1 | 0 | | |
| MI MUSKOGON | 35 | 18 | 45 | 6 | 27 | 0 | 0.19 | -0.20 | 0.16 | 4.85 | 71 | 3.54 | 94 | 86 | 46 | 0 | 6 | 2 | 0 | | |
| MN DULUTH | 31 | 16 | 36 | -8 | 24 | 8 | 0.01 | -0.23 | 0.01 | 2.59 | 80 | 1.02 | 52 | 91 | 57 | 0 | 7 | 1 | 0 | | |
| MN INTL FALLS | 34 | 17 | 45 | -10 | 25 | 14 | 0.25 | 0.08 | 0.16 | 1.06 | 45 | 0.69 | 46 | 85 | 46 | 0 | 7 | 4 | 0 | | |
| MN MINNEAPOLIS | 36 | 23 | 41 | 10 | 30 | 8 | 0.01 | -0.27 | 0.01 | 3.29 | 115 | 2.83 | 159 | 87 | 56 | 0 | 6 | 1 | 0 | | |
| MN ROCHESTER | 34 | 21 | 39 | 12 | 27 | 7 | 0.05 | -0.19 | 0.05 | 3.02 | 120 | 2.73 | 184 | 90 | 62 | 0 | 7 | 1 | 0 | | |
| MN ST. CLOUD | 36 | 21 | 41 | 5 | 29 | 10 | 0.02 | -0.17 | 0.02 | 1.85 | 86 | 0.96 | 72 | 91 | 58 | 0 | 7 | 1 | 0 | | |
| MS JACKSON | 63 | 39 | 77 | 26 | 51 | 0 | 1.15 | -0.07 | 1.12 | 16.82 | 107 | 10.58 | 109 | 89 | 42 | 0 | 2 | 2 | 1 | | |
| MS MERIDIAN | 63 | 35 | 76 | 25 | 49 | -3 | 1.28 | -0.19 | 1.15 | 11.85 | 72 | 7.86 | 76 | 94 | 39 | 0 | 5 | 3 | 1 | | |
| MS TUPELO | 58 | 35 | 71 | 22 | 46 | -1 | 1.13 | -0.13 | 1.06 | 22.67 | 146 | 14.49 | 154 | 90 | 49 | 0 | 3 | 4 | 1 | | |
| MO COLUMBIA | 48 | 30 | 61 | 22 | 39 | 4 | 0.05 | -0.51 | 0.04 | 5.86 | 103 | 4.64 | 145 | 95 | 52 | 0 | 5 | 2 | 0 | | |
| MO KANSAS CITY | 49 | 28 | 70 | 23 | 39 | 4 | 0.08 | -0.27 | 0.05 | 5.00 | 134 | 3.89 | 182 | 94 | 55 | 0 | 5 | 2 | 0 | | |
| MO SAINT LOUIS | 48 | 30 | 68 | 20 | 39 | 2 | 0.19 | -0.45 | 0.12 | 9.56 | 139 | 8.73 | 229 | 90 | 43 | 0 | 5 | 2 | 0 | | |
| MO SPRINGFIELD | 53 | 30 | 66 | 20 | 41 | 3 | 0.00 | -0.66 | 0.00 | 7.26 | 104 | 5.90 | 153 | 87 | 36 | 0 | 5 | 0 | 0 | | |
| MT BILLINGS | 50 | 29 | 61 | 23 | 40 | 8 | 0.11 | -0.06 | 0.09 | 1.83 | 79 | 1.24 | 81 | 77 | 26 | 0 | 5 | 2 | 0 | | |
| MT BUTTE | 40 | 22 | 47 | 8 | 31 | 7 | 0.09 | -0.02 | 0.04 | 2.13 | 154 | 1.03 | 113 | 83 | 43 | 0 | 7 | 3 | 0 | | |
| MT GLASGOW | 35 | 22 | 41 | 14 | 29 | 8 | 0.24 | 0.17 | 0.15 | 2.26 | 231 | 1.66 | 272 | 92 | 69 | 0 | 6 | 3 | 0 | | |
| MT GREAT FALLS | 47 | 27 | 58 | 21 | 37 | 8 | 0.04 | -0.11 | 0.04 | 1.07 | 46 | 0.85 | 58 | 79 | 34 | 0 | 5 | 1 | 0 | | |
| MT KALISPELL | 39 | 28 | 45 | 20 | 34 | 5 | 0.73 | 0.48 | 0.24 | 4.81 | 112 | 2.80 | 108 | 95 | 57 | 0 | 6 | 6 | 0 | | |
| MT MILES CITY | 48 | 30 | 61 | 25 | 39 | 12 | 0.03 | -0.08 | 0.03 | 1.17 | 74 | 0.60 | 61 | 91 | 44 | 0 | 5 | 1 | 0 | | |
| MT MISSOULA | 41 | 28 | 49 | 21 | 34 | 3 | 0.60 | 0.41 | 0.38 | 3.19 | 100 | 1.91 | 95 | 93 | 47 | 0 | 7 | 5 | 0 | | |
| NE GRAND ISLAND | 46 | 26 | 64 | 20 | 36 | 6 | 0.07 | -0.18 | 0.07 | 0.56 | 30 | 0.45 | 39 | 91 | 50 | 0 | 6 | 1 | 0 | | |
| NE LINCOLN | 42 | 23 | 54 | 13 | 33 | 3 | 0.64 | 0.38 | 0.53 | 1.96 | 94 | 1.77 | 147 | 95 | 61 | 0 | 7 | 2 | 1 | | |
| NE NORFOLK | 37 | 22 | 49 | 8 | 29 | 2 | 0.26 | -0.01 | 0.26 | 0.98 | 49 | 0.85 | 69 | 95 | 64 | 0 | 7 | 1 | 0 | | |
| NE NORTH PLATTE | 52 | 21 | 72 | 5 | 36 | 6 | 0.22 | 0.07 | 0.22 | 0.62 | 50 | 0.61 | 78 | 95 | 40 | 0 | 7 | 1 | 0 | | |
| NE OMAHA | 36 | 24 | 43 | 14 | 30 | 0 | 0.51 | 0.25 | 0.31 | 2.15 | 86 | 2.02 | 137 | 99 | 69 | 0 | 6 | 3 | 0 | | |
| NE SCOTTSBLUFF | 52 | 25 | 69 | 14 | 39 | 6 | 0.01 | -0.14 | 0.01 | 1.25 | 83 | 0.39 | 42 | 71 | 22 | 0 | 6 | 1 | 0 | | |
| NV VALENTINE | 48 | 23 | 72 | 5 | 35 | 8 | 0.45 | 0.30 | 0.30 | 1.41 | 136 | 0.98 | 146 | 93 | 45 | 0 | 7 | 3 | 0 | | |
| NV ELY | 48 | 19 | 58 | 10 | 33 | 2 | 0.04 | -0.14 | 0.00 | 1.24 | 59 | 0.93 | 68 | 78 | 28 | 0 | 7 | 1 | 0 | | |
| NV LAS VEGAS | 68 | 45 | 72 | 39 | 56 | 3 | 0.00 | -0.11 | 0.00 | 0.14 | 11 | 0.10 | 11 | 30 | 12 | 0 | 0 | 0 | 0 | | |
| NV RENO | 53 | 29 | 64 | 22 | 41 | 1 | 0.11 | -0.12 | 0.07 | 2.20 | 73 | 2.16 | 105 | 74 | 23 | 0 | 5 | 2 | 0 | | |
| NV WINNEMUCCA | 49 | 29 | 63 | 21 | 39 | 1 | 0.46 | 0.29 | 0.29 | 2.77 | 124 | 2.35 | 174 | 88 | 38 | 0 | 6 | 3 | 0 | | |
| NH CONCORD | 32 | 14 | 44 | 4 | 23 | -2 | 0.01 | -0.64 | 0.01 | 8.39 | 103 | 7.54 | 152 | 70 | 28 | 0 | 7 | 1 | 0 | | |
| NJ NEWARK | 39 | 24 | 52 | 14 | 32 | -4 | 0.09 | -0.70 | 0.06 | 10.34 | 106 | 9.31 | 148 | 69 | 34 | 0 | 6 | 2 | 0 | | |
| NM ALBUQUERQUE | 60 | 31 | 63 | 25 | 46 | 3 | 0.00 | -0.11 | 0.00 | 0.34 | 24 | 0.12 | 13 | 41 | 11 | 0 | 4 | 0 | 0 | | |
| NY ALBANY | 31 | 14 | 44 | 4 | 22 | -4 | 0.04 | -0.57 | 0.04 | 6.77 | 91 | 5.73 | 126 | 84 | 38 | 0 | 7 | 1 | 0 | | |
| NY BINGHAMTON | 28 | 12 | 41 | 0 | 20 | -5 | 0.04 | -0.57 | 0.01 | 7.69 | 101 | 6.10 | 131 | 73 | 35 | 0 | 7 | 1 | 0 | | |
| NY BUFFALO | 32 | 17 | 49 | 7 | 24 | -2 | 0.04 | -0.55 | 0.03 | 8.33 | 97 | 6.79 | 137 | 79 | 44 | 0 | 7 | 1 | 0 | | |
| NY ROCHESTER | 32 | 15 | 47 | 5 | 23 | -3 | 0.00 | -0.54 | 0.00 | 6.13 | 90 | 4.53 | 110 | 80 | 38 | 0 | 7 | 0 | 0 | | |
| NY SYRACUSE | 31 | 14 | 43 | 3 | 22 | -4 | 0.00 | -0.57 | 0.00 | 8.04 | 106 | 6.33 | 144 | 72 | 30 | 0 | 7 | 0 | 0 | | |
| NC ASHEVILLE | 45 | 24 | 63 | 20 | 35 | -6 | 0.36 | -0.70 | 0.27 | 12.82 | 122 | 9.78 | 140 | 87 | 38 | 0 | 7 | 3 | 0 | | |
| NC CHARLOTTE | 48 | 27 | 67 | 22 | 38 | -7 | 0.00 | -1.01 | 0.00 | 9.54 | 88 | 6.26 | 85 | 74 | 31 | 0 | 6 | 0 | 0 | | |
| NC GREENSBORO | 43 | 25 | 65 | 20 | 34 | -9 | 0.01 | -0.86 | 0.01 | 12.07 | 124 | 6.85 | 108 | 84 | 47 | 0 | 7 | 1 | 0 | | |
| NC HATTERAS | 44 | 35 | 55 | 30 | 39 | -7 | 0.28 | -0.71 | 0.23 | 11.51 | 83 | 6.79 | 73 | 82 | 55 | 0 | 2 | 3 | 0 | | |
| NC RALEIGH | 46 | 24 | 68 | 18 | 35 | -9 | 0.11 | -0.83 | 0.00 | 11.63 | 113 | 8.19 | 117 | 83 | 36 | 0 | 7 | 2 | 0 | | |
| NC WILMINGTON | 51 | 30 | 67 | 23 | 41 | -9 | 0.02 | -0.92 | 0.02 | 10.67 | 96 | 6.71 | 90 | 80 | 33 | 0 | 4 | 1 | 0 | | |
| ND BISMARCK | 38 | 25 | 47 | 21 | 31 | 12 | 0.08 | -0.03 | 0.06 | 1.80 | 131 | 1.56 | 175 | 89 | 70 | 0 | 7 | 2 | 0 | | |
| ND DICKINSON | 41 | 29 | 56 | 24 | 35 | 13 | 0.02 | -0.07 | 0.01 | 1.41 | 133 | 1.23 | 176 | 92 | 63 | 0 | 4 | 2 | 0 | | |
| ND FARGO | 35 | 23 | 45 | 7 | 29 | 13 | 0.01 | -0.12 | 0.00 | 1.61 | 91 | 1.30 | 115 | 88 | 66 | 0 | 6 | 1 | 0 | | |
| ND GRAND FORKS | 31 | 16 | 38 | -3 | 24 | 10 | 0.10 | -0.03 | 0.05 | 1.46 | 81 | 1.22 | 104 | 97 | 78 | 0 | 6 | 3 | 0 | | |
| ND JAMESTOWN | 33 | 19 | 45 | 10 | 26 | 9 | 0.08 | -0.05 | 0.08 | 1.86 | 120 | 1.68 | 158 | 95 | 77 | 0 | 7 | 1 | 0 | | |
| ND WILLISTON | 37 | 20 | 46 | 16 | 29 | 9 | 0.26 | 0.15 | 0.17 | 3.07 | 198 | 2.31 | 241 | 92 | 68 | 0 | 7 | 3 | 0 | | |
| OH AKRON-CANTON | 33 | 21 | 44 | 11 | 27 | -3 | 0.68 | 0.05 | 0.35 | 8.10 | 112 | 5.96 | 139 | 94 | 60 | 0 | 7 | 4 | 0 | | |
| OH CINCINNATI | 39 | 25 | 60 | 14 | 32 | -3 | 1.02 | 0.25 | 0.80 | 11.90 | 143 | 8.08 | 157 | 90 | 50 | 0 | 6 | 5 | 1 | | |
| OH CLEVELAND | 32 | 22 | 46 | 15 | 27 | -2 | 0.85 | 0.25 | 0.47 | 7.70 | 107 | 5.78 | 140 | 87 | 59 | 0 | 7 | 4 | 0 | | |
| OH COLUMBUS | 36 | 26 | 50 | 15 | 31 | -2 | 0.83 | 0.20 | 0.54 | 8.65 | 120 | 5.40 | 125 | 93 | 56 | 0 | 6 | 5 | 1 | | |
| OH DAYTON | 37 | 24 | 56 | 11 | 31 | -2 | 1.55 | 0.93 | 1.38 | 9.84 | 138 | 7.71 | 184 | 93 | 57 | 0 | 6 | 3 | 1 | | |
| OH MANSFIELD | 32 | 21 | 46 | 6 | 27 | -3 | 0.57 | -0.02 | 0.41 | 7.26 | 104 | 5.70 | 146 | 95 | 67 | 0 | 7 | 4 | 0 | | |

Based on 1961-90 normals

Weather Data for the Week Ending February 27, 1999

| 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 | 90 AND ABOVE | 32 AND BELOW | TEMP. °F | | PRECIP. | |
| | | | | | | | | | | | | | | | | | | .01 INCH OR MORE | 50 INCH OR MORE | | |
| OK TOLEDO | 34 | 22 | 46 | 11 | 28 | 0 | 0.68 | 0.19 | 0.49 | 5.39 | 85 | 4.78 | 141 | 85 | 49 | 0 | 7 | 3 | 0 | 0 | |
| OK YOUNGSTOWN | 32 | 18 | 41 | 7 | 25 | -3 | 0.49 | -0.08 | 0.21 | 9.11 | 130 | 6.75 | 165 | 91 | 50 | 0 | 7 | 5 | 0 | 0 | |
| OK OKLAHOMA CITY | 65 | 37 | 79 | 28 | 51 | 7 | 0.00 | -0.47 | 0.00 | 4.63 | 115 | 3.01 | 115 | 86 | 30 | 0 | 4 | 0 | 0 | 0 | |
| OK TULSA | 62 | 37 | 76 | 26 | 49 | 6 | 0.00 | -0.60 | 0.00 | 5.88 | 106 | 4.31 | 127 | 84 | 37 | 0 | 3 | 0 | 0 | 0 | |
| OR ASTORIA | 50 | 42 | 53 | 34 | 46 | 1 | 7.58 | 5.80 | 1.88 | 48.24 | 173 | 31.71 | 183 | 98 | 75 | 0 | 0 | 7 | 5 | 0 | |
| OR BURNS | 40 | 22 | 46 | 10 | 31 | -1 | 0.55 | 0.36 | 0.24 | 4.91 | 170 | 3.76 | 216 | 94 | 56 | 0 | 5 | 6 | 0 | 0 | |
| OR EUGENE | 51 | 41 | 58 | 32 | 46 | 0 | 3.53 | 2.21 | 1.04 | 25.85 | 118 | 17.32 | 130 | 93 | 73 | 0 | 1 | 7 | 3 | 0 | |
| OR MEDFORD | 51 | 37 | 57 | 32 | 44 | -1 | 0.90 | 0.45 | 0.41 | 8.86 | 113 | 7.63 | 167 | 91 | 50 | 0 | 1 | 7 | 0 | 0 | |
| OR PENDLETON | 53 | 39 | 59 | 34 | 46 | 5 | 0.72 | 0.44 | 0.31 | 3.51 | 83 | 2.14 | 82 | 84 | 44 | 0 | 0 | 6 | 0 | 0 | |
| OR PORTLAND | 51 | 42 | 55 | 37 | 46 | 1 | 3.26 | 2.37 | 1.50 | 22.17 | 146 | 15.43 | 170 | 93 | 66 | 0 | 0 | 7 | 2 | 0 | |
| OR SALEM | 50 | 42 | 54 | 36 | 46 | 2 | 4.69 | 3.62 | 1.57 | 29.18 | 171 | 20.39 | 199 | 94 | 73 | 0 | 0 | 7 | 4 | 0 | |
| PA ALLENTOWN | 36 | 18 | 46 | 9 | 27 | -5 | 0.00 | -0.74 | 0.00 | 8.00 | 84 | 7.35 | 122 | 75 | 31 | 0 | 7 | 0 | 0 | 0 | |
| PA ERIE | 31 | 20 | 45 | 9 | 25 | -3 | 0.22 | -0.40 | 0.04 | 9.74 | 122 | 6.15 | 140 | 80 | 45 | 0 | 7 | 4 | 0 | 0 | |
| PA MIDDLETOWN | 37 | 20 | 48 | 12 | 29 | -5 | 0.04 | -0.72 | 0.02 | 6.67 | 75 | 6.36 | 112 | 74 | 35 | 0 | 7 | 2 | 0 | 0 | |
| PA PHILADELPHIA | 39 | 24 | 49 | 16 | 32 | -4 | 0.03 | -0.69 | 0.01 | 7.71 | 83 | 6.89 | 117 | 74 | 36 | 0 | 6 | 2 | 0 | 0 | |
| PA PITTSBURGH | 34 | 20 | 42 | 11 | 27 | -5 | 0.24 | -0.41 | 0.12 | 8.79 | 114 | 6.98 | 145 | 88 | 45 | 0 | 7 | 2 | 0 | 0 | |
| PA WILKES-BARRE | 33 | 15 | 44 | 2 | 24 | -5 | 0.01 | -0.55 | 0.00 | 6.80 | 101 | 5.94 | 142 | 71 | 33 | 0 | 7 | 1 | 0 | 0 | |
| PA WILLIAMSPORT | 34 | 16 | 45 | 7 | 25 | -5 | 0.02 | -0.71 | 0.02 | 7.08 | 86 | 6.19 | 119 | 77 | 35 | 0 | 7 | 1 | 0 | 0 | |
| RI PROVIDENCE | 35 | 21 | 47 | 9 | 28 | -4 | 0.09 | -0.83 | 0.08 | 11.98 | 102 | 10.71 | 146 | 64 | 33 | 0 | 7 | 2 | 0 | 0 | |
| SC BEAUFORT | 55 | 36 | 71 | 29 | 46 | -8 | 0.00 | -0.85 | 0.00 | 8.13 | 81 | 4.85 | 71 | 88 | 42 | 0 | 3 | 0 | 0 | 0 | |
| SC CHARLESTON | 55 | 33 | 72 | 26 | 44 | -9 | 0.09 | -0.80 | 0.04 | 11.45 | 118 | 7.11 | 108 | 91 | 41 | 0 | 4 | 3 | 0 | 0 | |
| SC COLUMBIA | 53 | 29 | 72 | 24 | 41 | -8 | 0.12 | -0.94 | 0.05 | 8.94 | 75 | 6.65 | 79 | 84 | 31 | 0 | 5 | 4 | 0 | 0 | |
| SC GREENVILLE | 48 | 29 | 60 | 23 | 38 | -7 | 0.04 | -1.15 | 0.04 | 11.04 | 88 | 6.80 | 82 | 74 | 36 | 0 | 6 | 1 | 0 | 0 | |
| SD ABERDEEN | 40 | 25 | 59 | 15 | 32 | 12 | 0.11 | -0.06 | 0.06 | 1.07 | 88 | 0.89 | 110 | 92 | 61 | 0 | 6 | 3 | 0 | 0 | |
| SD HURON | 41 | 25 | 63 | 20 | 33 | 10 | 0.05 | -0.18 | 0.03 | 0.84 | 56 | 0.63 | 61 | 95 | 60 | 0 | 6 | 3 | 0 | 0 | |
| SD RAPID CITY | 52 | 24 | 71 | 17 | 38 | 9 | 0.00 | -0.16 | 0.00 | 0.40 | 30 | 0.35 | 40 | 81 | 32 | 0 | 5 | 0 | 0 | 0 | |
| SD SIOUX FALLS | 34 | 22 | 43 | 10 | 28 | 4 | 0.19 | -0.03 | 0.18 | 0.89 | 49 | 0.65 | 59 | 97 | 70 | 0 | 7 | 2 | 0 | 0 | |
| TN BRISTOL | 41 | 25 | 53 | 19 | 33 | -8 | 0.39 | -0.50 | 0.23 | 12.43 | 125 | 7.21 | 111 | 88 | 46 | 0 | 7 | 4 | 0 | 0 | |
| TN CHATTANOOGA | 51 | 34 | 62 | 23 | 42 | -2 | 1.64 | 0.35 | 1.34 | 20.00 | 136 | 13.70 | 144 | 83 | 36 | 0 | 2 | 3 | 1 | 0 | |
| TN KNOXVILLE | 46 | 29 | 58 | 18 | 37 | -5 | 0.92 | -0.16 | 0.79 | 15.66 | 124 | 9.71 | 120 | 88 | 37 | 0 | 6 | 3 | 1 | 0 | |
| TN MEMPHIS | 59 | 38 | 74 | 26 | 49 | 2 | 0.56 | -0.63 | 0.48 | 12.59 | 92 | 8.34 | 105 | 82 | 45 | 0 | 3 | 2 | 0 | 0 | |
| TN NASHVILLE | 50 | 33 | 63 | 22 | 42 | -1 | 0.97 | -0.06 | 0.85 | 18.07 | 152 | 11.67 | 161 | 81 | 36 | 0 | 4 | 3 | 1 | 0 | |
| TX ABILENE | 71 | 43 | 83 | 27 | 57 | 7 | 0.00 | -0.30 | 0.00 | 3.30 | 104 | 1.93 | 90 | 77 | 22 | 0 | 2 | 0 | 0 | 0 | |
| TX AMARILLO | 66 | 31 | 80 | 23 | 48 | 7 | 0.00 | -0.18 | 0.00 | 3.08 | 207 | 2.67 | 247 | 54 | 14 | 0 | 5 | 0 | 0 | 0 | |
| TX AUSTIN | 73 | 52 | 87 | 37 | 62 | 7 | 0.12 | -0.42 | 0.01 | 1.92 | 34 | 0.36 | 9 | 90 | 36 | 0 | 0 | 2 | 0 | 0 | |
| TX BEAUMONT | 69 | 50 | 78 | 37 | 59 | 3 | 0.02 | -0.75 | 0.01 | 7.24 | 56 | 4.45 | 55 | 94 | 53 | 0 | 0 | 2 | 0 | 0 | |
| TX BROWNSVILLE | 78 | 59 | 83 | 45 | 68 | 4 | 0.00 | -0.20 | 0.00 | 2.13 | 55 | 1.84 | 71 | 95 | 53 | 0 | 0 | 0 | 0 | 0 | |
| TX CORPUS CHRISTI | 77 | 57 | 83 | 46 | 67 | 6 | 0.00 | -0.43 | 0.00 | 1.51 | 31 | 0.79 | 22 | 95 | 53 | 0 | 0 | 0 | 0 | 0 | |
| TX DEL RIO | 78 | 53 | 89 | 42 | 65 | 8 | 0.00 | -0.23 | 0.00 | 0.23 | 11 | 0.04 | 3 | 84 | 26 | 0 | 0 | 0 | 0 | 0 | |
| TX EL PASO | 69 | 40 | 74 | 32 | 54 | 4 | 0.00 | -0.10 | 0.00 | 0.44 | 31 | 0.10 | 12 | 36 | 16 | 0 | 1 | 0 | 0 | 0 | |
| TX FORT WORTH | 66 | 45 | 74 | 35 | 56 | 5 | 0.00 | -0.59 | 0.00 | 6.35 | 110 | 1.93 | 49 | 92 | 46 | 0 | 0 | 0 | 0 | 0 | |
| TX GALVESTON | 69 | 56 | 75 | 47 | 62 | 5 | 0.03 | -0.49 | 0.01 | 7.13 | 79 | 3.44 | 63 | 95 | 58 | 0 | 0 | 3 | 0 | 0 | |
| TX HOUSTON | 71 | 47 | 80 | 36 | 59 | 3 | 0.33 | -0.39 | 0.24 | 7.00 | 73 | 3.11 | 51 | 96 | 46 | 0 | 0 | 2 | 0 | 0 | |
| TX LUBBOCK | 70 | 32 | 80 | 20 | 51 | 5 | 0.00 | -0.19 | 0.00 | 1.61 | 103 | 1.35 | 130 | 51 | 11 | 0 | 4 | 0 | 0 | 0 | |
| TX MIDLAND | 73 | 40 | 81 | 28 | 57 | 7 | 0.00 | -0.17 | 0.00 | 0.91 | 58 | 0.33 | 33 | 56 | 12 | 0 | 1 | 0 | 0 | 0 | |
| TX SAN ANGELO | 73 | 43 | 82 | 30 | 58 | 7 | 0.01 | -0.26 | 0.01 | 1.11 | 43 | 0.62 | 34 | 77 | 22 | 0 | 2 | 1 | 0 | 0 | |
| TX SAN ANTONIO | 75 | 50 | 89 | 37 | 63 | 7 | 0.00 | -0.43 | 0.00 | 0.58 | 12 | 0.18 | 5 | 87 | 32 | 0 | 0 | 0 | 0 | 0 | |
| TX VICTORIA | 72 | 51 | 80 | 41 | 61 | 3 | 0.11 | -0.35 | 0.00 | 6.28 | 102 | 2.69 | 65 | 100 | 58 | 0 | 0 | 1 | 0 | 0 | |
| TX WACO | 70 | 45 | 81 | 34 | 57 | 5 | 0.08 | -0.47 | 0.01 | 6.55 | 119 | 2.47 | 68 | 91 | 43 | 0 | 0 | 2 | 0 | 0 | |
| TX WICHITA FALLS | 69 | 41 | 81 | 31 | 55 | 8 | 0.00 | -0.43 | 0.00 | 4.52 | 122 | 2.59 | 107 | 82 | 24 | 0 | 1 | 0 | 0 | 0 | |
| UT SALT LAKE CITY | 51 | 31 | 62 | 25 | 41 | 4 | 0.12 | -0.23 | 0.11 | 3.56 | 95 | 2.37 | 103 | 73 | 28 | 0 | 4 | 2 | 0 | 0 | |
| VT BURLINGTON | 26 | 8 | 41 | -3 | 17 | -4 | 0.14 | -0.29 | 0.09 | 4.88 | 84 | 4.51 | 134 | 82 | 34 | 0 | 7 | 2 | 0 | 0 | |
| VA LYNCHBURG | 40 | 21 | 54 | 17 | 31 | -9 | 0.09 | -0.71 | 0.01 | 10.03 | 111 | 6.95 | 121 | 80 | 35 | 0 | 7 | 3 | 0 | 0 | |
| VA NORFOLK | 41 | 31 | 52 | 27 | 36 | -7 | 0.21 | -0.66 | 0.20 | 10.74 | 104 | 5.41 | 76 | 79 | 46 | 0 | 4 | 2 | 0 | 0 | |
| VA RICHMOND | 40 | 24 | 54 | 18 | 32 | -9 | 0.20 | -0.62 | 0.20 | 10.93 | 114 | 5.94 | 94 | 76 | 38 | 0 | 7 | 1 | 0 | 0 | |
| VA ROANOKE | 41 | 24 | 53 | 19 | 33 | -7 | 0.04 | -0.77 | 0.02 | 8.09 | 95 | 5.78 | 105 | 72 | 34 | 0 | 7 | 2 | 0 | 0 | |
| WA WASH/DULLES | 38 | 20 | 51 | 17 | 29 | -7 | 0.14 | -0.59 | 0.04 | 9.04 | 105 | 7.50 | 139 | 80 | 41 | 0 | 7 | 3 | 0 | 0 | |
| WA OLYMPIA | 48 | 39 | 53 | 34 | 43 | 1 | 7.07 | 5.76 | 2.22 | 40.33 | 186 | 27.34 | 201 | 100 | 72 | 0 | 0 | 7 | 5 | 0 | |
| WA QUILLAYUTE | 47 | 37 | 49 | 32 | 42 | 0 | 8.58 | 5.53 | 1.90 | 62.50 | 149 | 41.03 | 155 | 99 | 67 | 0 | 1 | 7 | 5 | 0 | |
| WA SEATTLE-TACOMA | 49 | 41 | 53 | 36 | 45 | 0 | 3.07 | 2.14 | 0.98 | 22.60 | 149 | 13.62 | 147 | 90 | 60 | 0 | 0 | 7 | 3 | 0 | |
| WA SPOKANE | 42 | 33 | 45 | 29 | 37 | 2 | 1.63 | 1.27 | 0.59 | 8.42 | 144 | 5.14 | 151 | 92 | 62 | 0 | 4 | 6 | 1 | 0 | |
| WA YAKIMA | 50 | 34 | 57 | 23 | 42 | 3 | 0.33 | 0.16 | 0.25 | 3.48 | 104 | 2.74 | 143 | 90 | 45 | 0 | 4 | 4 | 0 | 0 | |
| WV BECKLEY | 33 | 20 | 54 | 9 | 26 | -9 | 0.50 | -0.26 | 0.21 | 12.09 | 134 | 7.75 | 135 | 97 | 55 | 0 | 7 | 5 | 0 | 0 | |
| WV CHARLESTON | 39 | 23 | 52 | 15 | 31 | -7 | 0.95 | 0.14 | 0.59 | 10.39 | 113 | 7.20 | 124 | 88 | 53 | 0 | 7 | 5 | 1 | 0 | |
| WV ELKINS | 32 | 16 | 41 | 7 | 24 | -8 | 0.22 | -0.58 | 0.09 | 10.21 | 108 | 8.22 | 138 | 91 | 49 | 0 | 7 | 4 | 0 | 0 | |
| WV HUNTINGTON | 40 | 24 | 56 | 16 | 32 | -6 | 0.84 | 0.06 | 0.57 | 9.49 | 106 | 6.53 | 116 | 89 | 47 | 0 | 7 | 5 | 1 | 0 | |
| WI EAU CLAIRE | 36 | 20 | 40 | 4 | 28 | 8 | 0.28 | 0.06 | 0.26 | 2.93 | 105 | 2.44 | 145 | 91 | 55 | 0 | 6 | 1 | 0 | 0 | |
| WI GREEN BAY | 35 | 18 | 43 | 11 | 27 | 5 | 0.37 | 0.06 | 0.16 | 2.92 | 80 | 2.62 | 123 | 89 | 57 | 0 | 6 | 3 | 0 | 0 | |
| WI LACROSSE | 38 | 23 | 46 | 10 | 31 | 7 | 0.05 | -0.23 | 0.05 | 3.28 | 107 | 2.98 | 166 | 83 | 47 | 0 | 6 | 1 | 0 | 0 | |
| WI MADISON | 36 | 21 | 44 | 12 | 29 | 5 | 0.24 | -0.09 | 0.17 | 3.32 | 84 | 3.03 | 145 | 90 | 53 | 0 | 6 | 3 | 0 | 0 | |
| WI MILWAUKEE | 35 | 24 | 42 | 14 | 29 | 3 | 0.15 | -0.28 | 0.13 | 6.26 | 118 | 5.37 | 180 | 85 | 56 | 0 | 6 | 2 | 0 | 0 | |
| WI CASPER | 46 | 24 | 57 | 13 | 35 | 6 | 0.02 | -0.15 | 0.02 | 0.65 | 37 | 0.56 | 50 | 71 | 30 | 0 | 6 | 1 | 0 | 0 | |
| WY CHEYENNE | 44 | 25 | 56 | 11 | 35 | 4 | 0.01 | -0.12 | 0.00 | 0.99 | 85 | 0.53 | 71 | 59 | 26 | 0 | 5 | 1 | 0 | 0 | |
| WY LANDER | 47 | 23 | 56 | 16 | 35 | 7 | 0.00 | -0.17 | 0.00 | 1.1 | | | | | | | | | | | |

February State Agricultural Summaries

These summaries, issued weekly through the summer growing season, provide brief descriptions of crop and weather conditions important on a national scale. More detailed data are available in Weather and Crop Bulletins published each Monday by NASS State Statistical Offices in cooperation with the National Weather Service. The crop weather reports are also available on the Internet through the NASS Home Page on the World Wide Web at <http://www.usda.gov/nass/> or from JAWF at <http://www.usda.gov/oce/waob/jawf>.

ALABAMA: Dry weather prevailed across the State, with most areas receiving well under normal rainfall. Northeast and north-central areas fared better than most, however, and the southwest region was drier. Temperatures were above normal over most of the State. A shortage of chill hours created concern for the 1999 peach crop.

ARIZONA: Small grains continued to progress last week. As of February 28, virtually all of the durum wheat, other wheat, barley, other small grains had been planted. As of February 28, 98% of the durum wheat, 94% of other wheat, 97% of the barley, 82% of the other small grains had emerged. As of February 28, 2% of the durum wheat, 3% of other wheat, 2% of the barley, less than 1% of the other small grains had emerged. Alfalfa harvest activity was reported as 67% not being harvested, 18% light, 9% moderate, 6% active. Some fields are being green chopped. Sheeping off of alfalfa fields declined last week. Producers in central areas shipped broccoli, cabbage, chinese cabbage, green onions, mixed greens, napa, parsley, spinach, turnips last week. A light volume of beets, cauliflower, endive, escarole were also shipped by central area producers. Eastern areas producers shipped greenhouse tomatoes. Western producers harvested anise, bok choy, broccoflower, broccoli, cabbage, cauliflower, celery, endive, escarole, kale, mixed greens, napa, radicchio, salad savoy, specialty leaf, spinach, swiss chard. Lettuce shipments included boston, head, leaf, romaine. Central, western areas groves shipped fairchild tangerines, grapefruit, lemons, navel oranges, tangelos last week. Pasture conditions improved in some areas, declined in others. Relatively mild weather has moderated the decline. Pastures throughout the State were evenly mixed between poor, fair, good. Livestock were reported in fair to good condition. Stockwater was adequate throughout the State, while soil moisture was short. The dry winter is causing ranchers to begin to express concerns for the future. All areas report the need for rain. Insect damage was light. Overall, northern grazing conditions were fair to poor in February. High-elevation pastures were in mainly fair to good condition, while low-elevation pastures were in fair condition. Mid-elevation pastures were reported in poor to fair condition. Cattle were reported in fair condition. Stock water supplies were short to adequate, soil moisture was short. Lack of snow pack is causing concerns for the future. Most ranchers are supplemental feeding. Insect damage was light. Central area pasture conditions were in good to fair condition. Conditions were mainly good at low-, mid-elevation pastures but were primarily fair at high elevations. Livestock conditions were fair to good, stockwater was adequate to short. Soil moisture was short. No insect damage was reported. Southern pasture conditions were mixed. Low-elevation pastures were mainly in poor condition, while mid, high elevations were about evenly divided between poor, fair, good conditions. Livestock conditions were fair to good. Stockwater was short to adequate, soil moisture was short. Mild weather has taken some of the edge off of the dry weather. No insect damage was reported.

ARKANSAS: Temperatures above normal for the first week of February, precipitation was generally above normal for northern, western areas. Below normal for the southern, eastern part of the State. Temperatures were much above normal, and precipitation was below normal during the second week of the month. Third week of February brought more seasonal temperatures, only slight precipitation. Month ended with temperatures above normal, with a front late in the week bringing scattered light precipitation to the State.

CALIFORNIA: Cool, rainy month brought needed precipitation to most areas. February temperatures were generally lower than normal. First week of the month saw several feet of snowfall in the mountains. Southern counties, both coastal and inland, received some rainfall early in the month. Storm fronts pushed through the northern, central areas, dropping precipitation throughout February. Moderate rainfall often caused field work delays in the Sacramento, northern San Joaquin Valleys. Elsewhere, only very light rain, if any, was received, field activities were able to progress normally. Small grains, winter forages, new alfalfa continued to grow rapidly in most areas, although irrigation was underway in southern counties later in the month. As March approached, wheat began to develop heads in Kern County. Aerial fertilizer, herbicide, aphid treatments were ongoing in wheat, barley, oat, alfalfa fields. The latter part of the month saw seedbed preparations for planting corn, cotton, dry beans, and safflower gaining momentum in the San Joaquin Valley; preparations were hampered by wet soils in the northern areas. Safflower was planted in Kings County. San Joaquin cotton fields were sprayed with preplant herbicides mid-month. Imperial Valley cotton planting had begun by month's end. Seed alfalfa fields

were cultivated, weeded, while alfalfa hay fields were sprayed for aphids, weeds, weevils. As March rolled in, a few fields of new alfalfa were still being seeded in the San Joaquin Valley. February's cultural activities such as pruning, shredding brush, dormant spraying continued into March. Many varieties of almonds, nectarines, apricots, freestone peaches were blooming as February closed. Fungicides were applied to prevent blossom rot in some orchards. Anthracnose appeared in some almond orchards. Citrus growers in the San Joaquin Valley spent the month of February picking any salvageable fruit remaining after the late December 1998 freeze. Some were destined for fresh market, much went to the processors. Seasonally normal citrus fruit picking continued in southern areas. Growth of fall planted strawberries began to accelerate by the end of the month. Early planting of summer tomato fields started in the San Joaquin, Sacramento Valleys. San Joaquin Valley garlic, onion crops began to improve as the weather grew warmer, spring approached. Tulare County spinach harvest was expected to begin early in March. Carrots, potatoes, sweet corn, spring melons, zucchini, cucumber seedlings were being planted throughout the Central Valley. Broccoli, asparagus were thriving. Lettuce fields continued to be thinned, weeded, sprayed for aphids, mildew. Vegetables harvested in February included carrots, cabbage, broccoli, potatoes, asparagus, green onions, turnips. Conditions on foothill pastures continued to improve in central, northern areas. Most areas reported good soil moisture, warming temperatures by the end of the month that benefited grass growth, improved cattle weight gains. Supplemental feeding declined in the central area, where additional cattle were moving back to pastures. As March closed in, bees were actively pollinating blossoms in almond, early stone fruit orchards.

COLORADO: Temperatures mostly seasonal to above normal for the entire month. Except for the mountain areas, most of the State received very limited amounts of moisture. Strong winds on numerous days during February accelerated soil moisture depletion, leaving most agricultural areas in need of additional moisture, especially across the eastern Plains. With the open weather, producers have done some fieldwork around attending producer meetings, farm shows.

DELAWARE: Below-normal precipitation received for the entire State. Weather has remained generally mild with just a few showers, allowing widespread construction of litter storage facilities. Water tables are lower than normal for this time of year, which is allowing much more field activity than a year ago at this time. Lime, poultry litter are being spread on fields, new irrigation systems are being installed. Poultry disease problems remain very minimal.

FLORIDA: Topsoil moisture throughout the Panhandle was adequate, with some areas short of moisture. Peninsula moisture short with scattered areas very short or adequate. Growers tending plant beds. Spring planted cropland preparations active. Sugarcane harvest active. Cooler weather aided vegetable fruit setting, sizing. Windy conditions tossed vegetables as cold front passed. Major vegetables shipped: Snap beans, cabbage, sweet corn, eggplant, endive, escarole, lettuce, parsley, peppers, pickles, radishes, squash, strawberries, tomatoes. Dry, cool weather most of week in citrus belt. Rain in the north-central area on the 28th. New growth in bloom in all areas. Early, mid orange harvest slowing, harvesting crews moving over to Valencias, grapefruit, temples, honey tangerines. Some processors taking field run of grapefruit. Caretakers cutting cover crops, spraying, fertilizing, hedging, topping. Pasture feed poor 30%, fair 60%, good 10%. Condition of cattle poor 25%, fair 55%, good 20%. Panhandle pasture condition poor due to short moisture. Winter forage condition good. Central grass short, color good. Cold snap hurt pastures, and in the low-lying areas, cooler weather helped grass withstand dry conditions. West-central pasture fair due to low soil moisture. Hay short. Supplemental feeding cattle active, since pasture in poor condition. Statewide cattle condition poor to good, mostly fair.

GEORGIA: Soil moisture was adequate for most of the State. Warmer-than-normal temperatures permitted topdressing and preparation for spring planting. Small grains topdressing continued, with about slightly over 50 percent completed and most of the crop in fair to good condition. Little corn has been planted. Tobacco bed preparation neared completion, with the crop in mostly good condition. Peaches began to bloom in some areas, causing concern. A few growers applied growth regulators. Peaches were in primarily fair to good condition. Overall land preparation for spring planting is under 50 percent completed. Pastures were mostly fair to good, with limited areas

in poor condition. Other activities included maintaining equipment, cattle feeding, seed acquisition.

HAWAII: Crops made variable progress. Unseasonably strong trade winds, moderate to heavy showers hampered crop progress during the first week. Generally stable weather prevailed from February 10th to 18th. Crops benefited from a mixture of mostly sunny skies, cool nights, light showers during this period. A thick band of clouds brought heavy showers during February 19th to 21st. Some areas received over 12 inches of rain during the 3-day period. Flooding occurred in a few limited areas. No major agricultural losses are expected. Clear weather followed until the end of the month. Crops made good progress at the end of the month. Banana orchards were in fair condition. Gustly winds shredded leaves, cool weather slowed fruit maturity. Showers were generally beneficial for the crop but necessitated an increase in spraying. Papaya orchards made variable progress. Harvesting was active, but seasonally low due to cool temperatures. Head cabbage in generally good condition, with active harvesting. Harvesting of ginger root remained very active. Heavy rains at mid-month temporarily slowed farm activity for ginger root growers.

IDAHO: Temperatures during February were mild, but precipitation has been above normal. Snowpack in the mountains is above average. Warm, wet weather creating muddy conditions for calving and lambing. Calving is 45% complete, lambing is 60%. Hay and roughage supply was reported 23% surplus, 68% adequate, 6% short, and 3% very short. Vole damage to some winter wheat fields. Winter wheat condition 26% excellent, 64% good, 8% fair, and 2% poor. Activities: Arranging finances, feeding livestock, calving, lambing, attending educational meetings, preparing taxes, and repairing machinery.

ILLINOIS: Topsoil 1% very short, 6% short, 75% adequate, 18% surplus. Wheat 2% very poor, 3% poor, 28% fair, 60% good, 7% excellent. Overall mild weather during February has kept the wheat crop looking good. However, there is still concern for a late cold snap affecting the exposed wheat. Winter wheat was rated considerably lower in the southeast district. Livestock has also benefited from the mild weather, despite muddy lots, with virtually no problems concerning feed supplies or pasture condition. Activities for February included preparing equipment for spring planting, hauling grain, manure.

INDIANA: February provided Hoosier farmers very little opportunity to accomplish any tillage activities, except in isolated areas of the State. Farmers are purchasing seed, fertilizer, getting equipment ready to begin the 1999 crop season. Warm weather the past week has caused wheat to green up. Winter wheat is in mostly good condition. First application of nitrogen has been applied on some fields. Temperatures averaged above normal during most of February. Many areas received showers this past weekend. Farmers are very depressed with the low grain prices. Reports of forced farm sales, some getting out of farming. Livestock condition is generally good. Calving, lambing underway. Feedlots are muddy. Hay supplies are adequate. Activities: Grain marketing, hauling manure, tax preparation, purchasing crop inputs, feeding, caring for livestock, maintenance of machinery, buildings.

IOWA: Temperatures varied from above normal to normal for the month. Mild winter has allowed more grain movement and grazing of stalks. Hay supplies are more than adequate. Most of the remaining snow is in the west-central and southwest districts. Average depth of snow cover 1 inch, down from 5 inches last month. Average depth of frost penetration 6 inches, compared to 14 inches last month. Soil erosion 78% light to none, 21% moderate, 1% severe. Grain movement rated 21% none, 56% light, 20% moderate, 3% heavy. Livestock are doing well and calving is getting started. Availability of hay, roughage supplies for livestock feed 2% short, 83% adequate, 15% surplus; quality of hay, roughage supplies 6% poor, 49% fair, 45% good. Utilization of stubble fields for grazing increased to 33% none, 25% limited, 30% moderate, 12% extensive. Hog, pig losses 21% below average, 77% average, 2% above average; cattle, calf losses 25% below average, 74% average, 1% above average.

KANSAS: Winter wheat received some rain mixed with light snow during February is breaking dormancy in most areas across the State. Winter wheat condition improved slightly from the previous month, currently rated 20% excellent, 47% good, 30% fair, 3% poor. January 9% excellent, 58% good, 28% fair, 5% poor. Crop seems to have suffered only light freeze, wind damage during the winter. Army cutworms have been reported at treatable levels in the southwestern, central part of the State. Topsoil moisture remains mostly adequate as farmers continue top-dressing wheat, alfalfa, brome. Currently, topsoil moisture 18% surplus, 64% adequate, 15% short, 3% very short. Warmer weather than normal caused some topsoil moisture to dry out in some areas. Spring calving, lambing are in full swing. Wet, muddy conditions earlier made cattle feeding difficult in limited areas of

the State. Some cattle, calves remain on stalks. Farmers are beginning to move cattle off of wheat pasture, into feedlots. Some farmers are making preparations for spring planting by applying fertilizer, insecticides, working the seedbed for row crop fields.

KENTUCKY: Very mild temperatures continued through the first 2 weeks of February as above-normal rainfall kept fields and pastures muddy. Record breaking warmth occurred across the Commonwealth with the approach of a strong cold front. Passing of the low pressure system dropped temperatures 50 degrees Fahrenheit, with mid-month lows reaching the teens. Most areas of the State received 1 to 2 inches of snow from the system. Mild drier conditions returned, allowing farmers to return to completing routine chores. Month ended with more seasonal temperatures, light precipitation. Wide fluctuations in temperatures during February caused varying degrees of stress on livestock dealing with muddy conditions. Soil moisture rated adequate to surplus statewide for the month. Winter wheat showed some growth by month's end mainly from the periods of above-normal temperatures. Burley tobacco markets closed for the season at the end of the month. Kentucky gross sales totaled 473.6 million pounds, averaged \$190.27 per hundred pounds. Pasture conditions were generally poor, most producers continued to feed extra grain, hay. Cattle were in mostly fair to good condition.

LOUISIANA: Days suitable for fieldwork 15. During the beginning of February, 3 days suitable for fieldwork. During the middle of the month, 7 days suitable for fieldwork. During the last part of the month, 5 days suitable for fieldwork. Soil moisture was reported as being adequate to surplus during the entire month. February began with very little precipitation. Lack of precipitation continued throughout the month. Some regions in the Northeast did receive substantial amounts of rain during the second week of the month. Despite the low amounts of precipitation, the month ended right on track with the 20-year average. Cattlemen were fertilizing rye grasses. Vegetable producers were working the land and harvesting mixed greens. Sweet potatoes were being bedded. Sugarcane producers were applying pre-emergent herbicides, off-barring. Wheat producers were applying top dressing. Corn producers were preparing land for planting. Crawfish harvest had begun. Rice producers were land leveling, preparing fields. Many producers continued to work on equipment in preparation for spring planting.

MARYLAND: Below-normal precipitation received for the entire State. Small grains have been rated from adequate to good, with reports of geese damage throughout the State. Hay supplies appear adequate for the Eastern Shore, short for southern Maryland counties. As for fruit conditions, damage appears to have been avoided on the lower Eastern Shore, peach trees appear to be budding for the southern Maryland counties. Also, for southern Maryland, tobacco stripping activities have finished, farmers are preparing for auctions. Farming activities: Topdressing of wheat, making tobacco beds, spreading manure, herbicide, nitrogen applications.

MICHIGAN: Mild weather, very little precipitation during most of the month left wheat, alfalfa fields exposed to potential winter kill, deer grazing. Upper Peninsula had some snow cover. Livestock has benefited from the mild weather, with generally good health and good feed supplies across the State. Lambing began, calving will begin soon. Activities included pruning trees, hauling manure, repairing equipment, attending farm meetings.

MINNESOTA: Temperatures remained above normal during the entire month, allowing much of the accumulated snow to melt away, especially in the southern part of the State. Soil erosion due to strong winds became more prevalent due to the decrease in snow cover. Livestock continued to be in good condition, benefiting from the mild weather.

MISSISSIPPI: Soil moisture 1% short, 36% adequate, 63% surplus. Wheat 1% very poor, 4% poor, 41% fair, 48% good, 6% excellent. Cattle 2% very poor, 9% poor, 42% fair, 41% good, 6% excellent. Hay supply 16% short, 80% adequate, 4% surplus. The first half of the month experienced slightly above-normal precipitation. The last half of the month experienced below-normal precipitation. Statewide precipitation was slightly below normal during the last week. Producers are feeding hay and supplements to cattle. Farmers are preparing for planting to begin.

MISSOURI: Parts of State light snowfall during early February. Above-normal temperatures melted most snow cover within a few days, enabling farmers to continue with livestock chores, hay hauling, other winter farm activities. Hay supplies remain plentiful in most areas. Spring-like weather was prominent across much of the State, which allowed cattle additional benefit of winter grazing. Range of monthly temperatures averaged about 8 to 11 degrees Fahrenheit above normal. Winter wheat continues in mostly fair to good condition. Precipitation 2.24 in., compared with the 30-year

average of 1.90 in. Southeastern counties had below-normal precipitation, while most other areas had above-normal amounts.

MONTANA: The month of February was significantly warmer and drier than normal. Average temperatures ranged anywhere from 6 to 13 degrees Fahrenheit above normal, with precipitation slightly below normal for much of the State. Storm tracks continued to be north or south of the State as a strong westerly upper air flow kept arctic air out of the area. As a result of the warmer, drier conditions, the lack of snow continues to create problems to the winter wheat crop. Winter wheat protectiveness of snow cover was 87% very poor, 9% poor, 3% fair, 1% good. Wind damage to winter wheat 10% none, 26% light, 46% moderate, 18% heavy. The condition rating of the winter wheat crop declined 4% very poor, 19% poor, 37% fair, 39% good, 1% excellent. Mild temperatures have resulted in livestock being in good condition as feed supplies remain adequate. Calving, lambing is making good progress, was reported at 27% complete for calving, 14% complete for lambing. Few problems have occurred with calving, lambing, death losses are down. Even though grazing is predominantly open, producers are continuing to feed livestock as during the drought last summer, fall reduced winter pastures. At the end of the month, 99% of the cattle, calves 99% of the sheep, lambs were receiving supplemental feed. Livestock grazing improved significantly as 74% of the grazing was open at the end of the month. Producers are also working to complete their taxes.

NEBRASKA: As a result of the above-normal temperatures, the winter wheat crop was breaking dormancy, green up was underway. Wheat 1% very poor, 3% poor, 21% fair, 60% good, 15% excellent. Soil moisture supplies short in portions of the west. Calving 23% complete, compared with 18% 1998. Condition of cattle, calves was mostly good to excellent, a result of the mild, open winter conditions. Hay, forage supplies were mostly adequate to surplus, also a result of the mild winter, which has allowed nearly ample grazing of stalk fields. Farm stored grain was in mostly good condition. Producer activities recordkeeping, tax planning, attendance of production meetings, 1999 crop year planning, pesticide recertification, equipment upgrade, repair, livestock care.

NEVADA: February was warm, dry for much of southern, eastern areas, while several storms visited the northern part of the State. Sierra of northwestern areas received heavy snows during the first part of the month, raising seasonal accumulations to well above normal. Fast-moving storms impacted north-central, northeastern areas around the middle of the month with high winds, blowing snow. Additional storms passed through the north later in the month, leaving modest amounts of precipitation. Temperatures warmed sharply at month's end. Field preparations began in the Smith and Mason Valleys. Some hay fields were dragged in Lahontan Valley. Planting was commencing in the extreme south. Grazing of northern hay fields continued. Calving gained momentum. Sheep shearing was getting underway. Farm flock lambing underway; range flock lambing to begin soon. Main farm, ranch activities: Ditch cleanup, livestock feeding, calving, field preparation, equipment maintenance, attending meetings, preparing taxes.

NEW ENGLAND: Maple sugar growers prepared for the upcoming season. Many producers started tapping trees. During mid-month, some areas had an unusual run of sap but it did not last long. Farmers stayed busy tending livestock and preparing for spring planting season. Moving apples and potatoes out of storage. Southern State received snow the last week of February. Over a foot of snow fell in some southern areas of Massachusetts, Rhode Island during this storm.

NEW JERSEY: Trace amounts of snow reported at numerous locations on the 12th to the 13th. Greatest 24-hour snowfall total was one inch at Canoe Brook on the 25th to the 26th. Heaviest 24-hour rainfall total was 1.16 inches at Charlotteburg on the 28th to March 1st. Agricultural activities included: Repairing machinery, equipment, caring for livestock, attending agricultural seminars, recordkeeping, preparing taxes. Nurseries were busy digging, shipping plant material. Greenhouse workers were seeding spring vegetable plants. Pruning of blueberry bushes, peach trees reported in southern areas.

NEW MEXICO: February was a warm, dry month. Weather also remained very dry throughout the State. At most reporting stations, precipitation was well below normal for February. Ranchers continued to haul water to livestock, while supplemental feeding also continued in most counties. Fruit producers were attentively watching weather patterns late last month, as warmer weather was bringing trees out of dormancy. Farmers were turning under crop stubble, preparing land for spring.

NEW YORK: Snow, ice storms made outside activities difficult. Tending livestock, spreading manure, machinery maintenance, repair major activities. Many meetings, trade shows were held during the month.

NORTH CAROLINA: Mild weather continued through most of month. Adequate rainfall has been realized throughout most of the State, with only the Mountain region still showing less than adequate soil moisture conditions. Weather has allowed early plantings of cabbage, Irish potatoes which are well ahead of schedule. Small grains continue to look good, should respond well to the fertilizer applications. Soil moisture 1% very short, 7% short, 80% adequate, 12% surplus. Indoor activities including repairing equipment, preparing greenhouses dominated the month of February. Seeding tobacco in greenhouses has begun along with limited fieldwork, including top dressing wheat. Other activities included tending livestock, pasture maintenance.

NORTH DAKOTA: Temperatures were above normal for the month, while snow cover was below normal, thus creating near ideal winter conditions for livestock. Several reports continued to indicate high levels of insect infestation in stored grain. Grain marketing was slow due mostly to depressed grain prices. On average Statewide, there were 3.4 in. of snow cover. Snow cover was sufficient to protect 46% of the alfalfa. Livestock feed, hay supplies remain adequate this winter as mild conditions have kept usage at a minimum. Ninety-eight percent of the cattle, 99% of sheep received supplemental feed. Livestock were in mostly good condition as calving, lambing has started. Calving was 10% complete, while lambing was 19% shearing, 33% complete. Cattle 3% poor, 17% fair, 73% good, 7% excellent; sheep 2% poor, 16% fair, 70% good, 12% excellent. Cattle sales 7% below normal, 89% normal, 4% above normal.

OHIO: Weather in February has been relatively mild as only a few days of extreme weather has been reported. Persistently wet conditions has limited most field activities with a few exceptions. During the latter part of the month, farmers have been hauling manure, spreading fertilizer as well as spraying dormant herbicides on alfalfa seedings. Producers top dressed their wheat crop when the ground froze in mid February. Greenhouse producers have been busy preparing cabbage, other vegetables for spring settings. Tobacco farmers have been preparing ground for plant beds. Livestock producers are tending to cattle as the calving season has started. Reporters indicated livestock in good conditions, since mild temperatures have not caused much stress. However, muddy pastures with little growth are causing the usual problems. Fungal infections have been reported in horses standing in wet fields. Minimal plowing has taken place as most ground turning has been with draft horses. Orchard growers have been busy pruning trees. Winter wheat conditions are good to excellent. There were no reports of alfalfa seedings out of dormancy.

OKLAHOMA: One of the warmest February's on record stimulated wheat, native grass growth. Subsoil 4% very short, 23% short, 72% adequate, 1% surplus. Topsoil 4% very short, 35% short, 60% adequate, 1% surplus. Wheat 2% poor, 19% fair, 70% good, 9% excellent; 42% grazed, 50% 1998, 42% avg. Wheat expected to joint earlier than usual. Topdressing picked up momentum. Pasture feed 11% very poor, 22% poor, 37% fair, 29% good, 1% excellent. Livestock 2% very poor, 6% poor, 23% fair, 61% good, 8% excellent. Warm weather reduced need for already tight hay supplies, lowered newborn calf death rate.

OREGON: Temperatures above normal, except southeast averaged several degrees below normal, southwest was near normal. All areas received steady precipitation during the month. As weather permitted, pruning of fruit trees, caneberries continued. Livestock on supplemental feed due to soggy conditions in the Willamette Valley, coastal areas, due to snow cover in the range country. Lambing began in the west.

PENNSYLVANIA: During the first few weeks of February, temperatures in most areas were above normal. Daily precipitation ranged from 0.0 to 1.0 inches, depending on the location. Some operators began plowing. Temperatures remained above normal during the third week of February. Weekly precipitation was below normal in many areas. At the beginning of the fourth week, a high pressure system over Canada caused temperatures to drop. The amount of precipitation received depended on the location. By the end of the week, temperatures returned to normal levels. Total precipitation for February was below normal in 55 of the 67 counties. Most counties remain under a drought warning and 14 counties remain under a drought emergency as previously issued by the governor. This decision is based upon stream flow, ground water, long-term precipitation conditions. Major activities for February were hauling, spreading manure, machinery maintenance, caring for livestock, plowing, attending farm organization meetings, preparing income taxes, planning for the 1999 crop season.

SOUTH CAROLINA: February temperatures were above normal throughout the month. High temperatures peaked in the upper 70's to low 80's degrees Fahrenheit. Precipitation was average for most locations around the State. Normal rainfall made conditions fair to good for small

grains. Fields were in good condition for fertilizer applications. Pasture, livestock conditions were fair to good. Farmers continue with maintenance activities, while they prepare for Spring planting.

SOUTH DAKOTA: Mild weather conditions dominated the State during February, with moderate temperatures and little snowfall recorded across the region. Many producers took advantage of the mild temperatures to haul grain, spread fertilizer, prepare machinery for spring seeding. The latter part of the month brought a snowstorm with significant snowfall totals to several areas of the State. Warm weather, sunshine prevailed as the month ended. The average snow depth across the State 1.6 in. Winter wheat 9% excellent, 75% good, 15% fair, 1% poor. Winter rye 10% excellent, 69% good, 19% fair, 2% poor. Snow cover was minimal for the month, as the only significant snowfall occurred the latter part of the month. Snow cover protection for alfalfa 1% excellent, 29% adequate, 70% poor. Snow cover for winter wheat 1% excellent, 25% adequate, 74% poor. Winter rye snow cover 1% excellent, 34% adequate, 65% poor. There is concern with fall seeded crops, alfalfa laying dormant, little to no snow cover, posing a risk of winterkill. Lack of snow cover, high winds in the western part of the State have caused some soil erosion. If the mild weather patterns continue, spring fieldwork will start earlier than expected. Livestock producers benefited from the mild temperatures, with livestock showing little to no stress and producers using less of their feed stock. Cattle and sheep remain in good to excellent condition. During February, calf death losses 31% below normal, 69% normal. Cattle death losses 33% below normal, 66% normal, 1% above normal. Sheep, lamb death losses 17% below normal, 83% normal. Hay, roughage 3% short, 75% adequate, 22% surplus. Stockwater supplies 1% short, 84% adequate, 15% surplus.

TENNESSEE: State experienced above-normal temperatures during the first part of February, with temperatures averaging 10 to 12 degrees Fahrenheit above normal statewide. Rainfall averages were slightly below normal for this time of year. The warm weather continued through most of the week ending 14th with temperatures averaging 8 to 10 degrees above average. Most parts of the State were drier than normal. During the week, ending 21st temperatures returned to normal; rainfall totals were slightly above normal in the eastern part of the State, but well below normal elsewhere, especially in western areas. Week ending 28th brought a combination of rain, light snow to various localities in the State. In general, temperatures were above normal in the western part of the State, normal in middle areas, below normal in the eastern part of the State. Excluding above-normal precipitation on the Cumberland Plateau, precipitation was normal for the State. By month's end good wheat growth was reported throughout most of the State, some fields were jointing. Most producers were top dressing their crop, some were spraying for onions, weeds. The wheat crop was reported in generally good condition at this time. A mild February helped to keep cattle in good condition throughout the month. Hay supplies were generally adequate for most of the State. However, a few isolated areas reported that some producers had to liquidate parts of their herd due to a lack of hay and/or quality. An increase in corn, protein supplements to cattle took place in some middle area counties to offset a low quality of hay.

TEXAS: February was basically a quiet month weather wise across all of Texas. Unseasonably warm temperatures were reported in all areas. Rainfall was nearly non-existent and as a result, soil moisture was short for the month. Fieldwork made good progress under open conditions in all areas, planting got underway in the Coastal, Rio Grande Valley areas by late February. Livestock conditions reflected the shortage of grazing although gains on small grain pastures was good. However, growth was slowed by a lack of rainfall. Calving, lambing season was well underway by late February.

UTAH: Major farm activities for the month of February included hauling manure, feeding livestock, milking cows, calving, plowing, soil testing, shearing ewes, some early spring planting, according to the State Agricultural Statistics. Ranges have stayed in good condition due to the mild winter thus far. This has also kept the livestock in good condition.

VIRGINIA: Variable temperatures and scattered precipitation persisted throughout the month of February. Temperatures for the month were above normal. However, instances of overnight freezing were reported in some localities. Several bands of rain showers moved through the Commonwealth during the month bringing year-to-date accumulation totals near normal levels for the majority of weather stations. Soil moisture is still reportedly in short supply in some localities due to previous, prolonged dry periods. Several isolated localities received light snowfall, particularly during the last week of the month. Limited accumulation caused very little disruption to routine chores. Many small grain producers have reported that their acreage is more advanced in maturity this year than in previous years. This is due in part to the recent weather pattern of mild temperatures and adequate rainfall. It is also due to the fact that many producers seeded their fields earlier than normal this past fall. Ninety-three percent of small grain acres appear to be

in fair or better condition as of March 1. The poor condition of remaining acres may be attributed to several factors. The most common factors reported were poor germination due to dry weather and occurrences of spindle streak virus. Fruit trees showed early signs of budding in scattered localities due to the mild weather prompting concern for late-season frost or freeze damage. Livestock producers continued to benefit from recent weather patterns. Mild temperatures and adequate moisture supplies allowed pastures to recover somewhat, thus reducing feed requirements. This helped to relieve some producers who earlier feared that their feed supplies would not last through the winter. Ninety-two percent of livestock are reportedly in fair or better condition. This is virtually unchanged from last month, only 2% less than February of 1997. February's mild weather was ideal for calving, lambing. Other farm activities for the month included plowing ground for corn, seeding flue tobacco in greenhouses, side and top-dressing small grains fields, application of lime, fertilizer, nitrogen, planting potatoes, peas, tapping maple trees for syrup production, pruning fruit trees.

WASHINGTON: Wet weather continued across the State, with most fields in western regions either flooded or extremely saturated. Record rainfall continued in many western areas. Olympia received a record 15.5 in. for the past month, the year to date total was almost 28 in., over 58 in. of rain had been recorded since October 1st. Pruning neared completion in central fruit growing regions, which have experienced a mild winter since December. Winter wheat crop was reported in good condition. Some areas were concerned about winter kill from the cold period experienced in December. Generally, winter kill was not considered substantial with most winter injury reports associated with wheat that went into the dry fall in poor condition. It is, however, still too early to make an overall accurate assessment of the winter kill. Calving, lambing were underway, producers were also busy with shopwork.

WEST VIRGINIA: Unseasonably warm weather of early February were favorable for livestock and feed supplies. Topsoil 8% short, 79% adequate, 13% surplus. Feed grain supplies 7% short, 93% adequate. Hay, roughage supplies 1% very short, 11% short, 78% adequate, 10% surplus. Tobacco beds seeded 50%. Wheat 70% fair, 30% good. Cattle 1% poor, 24% fair, 70% good, 5% excellent; 43% calved. Sheep 19% fair, 75% good, 6% excellent; 42% lambled.

WISCONSIN: First 2 weeks of February had average temperatures that were 14 degrees warmer than normal (the 30-year average for the years 1961-1990). By comparison, the last 2 weeks of the month were cooler, but were still 3-5 degrees warmer than normal. Our biweekly analysis of State average snow and frost depths indicated a mean frost depth of 4.9 inches and a mean snow depth of 3.0 in. on 12th. On 26th, the mean frost depth was 5.7 in, the mean snow depth was 3.2 in. Frost depths were about 11 in. less than the 37-year average for this time of year, snow depths were 5-7 in. less than the 37-year average. As usual, very little fieldwork was performed at this time of year. So far, the winter has not been harsh enough to significantly affect any of the State's livestock.

WYOMING: Temperatures above normal statewide. Precipitation below normal in nearly all areas. Topsoil 54% short, 17% 1998, 19% avg.; 38% adequate, 81% 1998, 76% avg.; 8% surplus, 2% 1998, 5% avg. Subsoil moisture 32% short, 68% adequate. Winter wheat 5% poor, 52% fair, 43% good. Winter wheat freeze damage 90% none, 9% light, 1% moderate. Winter wheat wind damage 57% none, 20% light, 23% moderate. Spring grazing prospects 14% poor, 40% fair, 44% good, 2% excellent. Cattle 7% fair, 88% good, 5% excellent. Calf losses 45% light, 55% normal. Sheep 4% fair, 93% good, 3% excellent. Lamb losses 38% light, 62% normal. Hay supplies 13% short, 57% adequate, 30% surplus; shortages mainly in northeastern areas. Spring calving 22% complete, 19% 1998, 16% avg. Farm flock ewes lambled 26% complete, 29% 1998, 28% avg. Farm flock sheep shorn 29% complete, 28% 1998, 28% avg. Average depth of snowcover 2.1 inches. Only West district over 2 inches.

International Weather and Crop Summary

February 21 - 27, 1999

HIGHLIGHTS

FSU-WESTERN: Unseasonably mild weather continued to favor dormant winter grains, while moderate to heavy snow further increased the deep snow cover in western Ukraine and northern Russia.

EUROPE: Stormy weather produced widespread precipitation as far south as Spain.

NORTHWESTERN AFRICA: Soaking rain boosted soil moisture in Morocco, improving growing conditions for winter grains in the jointing stage.

AUSTRALIA: Widespread, locally heavy rainfall hampered early summer crop harvests.

SOUTH AFRICA: Drier weather returned to the corn belt, hastening development of filling corn and other summer crops.

SOUTHEAST ASIA: Showers covered the eastern Philippines, favoring second-crop grains, while seasonably dry weather prevailed across Thailand and most of Vietnam.

EASTERN ASIA: Persistent mild weather caused winter wheat to break dormancy across most of the North China Plain.

SOUTH AMERICA: Warmer, drier weather reduced soil moisture for summer crops across portions of central Argentina and extreme southern Brazil.

February 1999

MONTHLY DATA FROM SELECTED FOREIGN CITIES CLIMATE PREDICTION CENTER-NCEP-NWS-NOAA

*** DATA NOT AVAILABLE

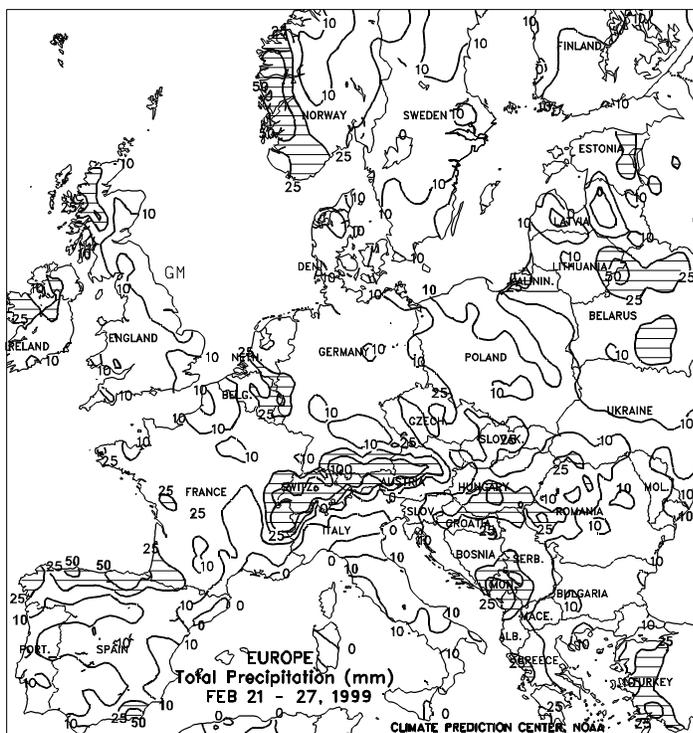
| COUNTRY | CITY | TEMPERATURE (C) | | | | | PRECIPITATION (MM) | | |
|----------|--------------|-----------------|---------|--------|--------|-----|--------------------|-------|-------------|
| | | AVG MAX | AVG MIN | HI MAX | LO MIN | AVG | DPART F/NRM | TOTAL | DPART F/NRM |
| NORWAY | OSLO | -1 | -9 | 7 | -19 | -5 | 2.1 | 33 | -15 |
| SWEDEN | STOCKHOLM | 1 | -5 | 8 | -17 | -2 | 0.8 | 0 | -26 |
| FINLAND | HELSINKI | -5 | -10 | 2 | -30 | -7 | -0.7 | 63 | 33 |
| UKINGDOM | GLASGOW | 7 | 2 | 12 | -6 | 5 | 0.4 | 91 | 3 |
| | EDINBURGH | 8 | 2 | 13 | -5 | 5 | 1.0 | 35 | -7 |
| IRELAND | DUBLIN | 8 | 4 | 12 | -3 | 6 | 0.9 | 32 | -19 |
| ICELAND | REYKJAVIK | 1 | -2 | 8 | -9 | -1 | -1.2 | 55 | -17 |
| DENMARK | COPENHAGEN | 3 | -3 | 9 | -11 | 0 | 0.2 | 28 | -11 |
| LUXEMBOR | LUXEMBOURG | 4 | -1 | 9 | -9 | 2 | 0.2 | 49 | -20 |
| SWITZERL | ZURICH | 2 | -2 | 10 | -12 | 0 | -1.3 | 172 | 99 |
| | GENEVA | 5 | -1 | 13 | -6 | 2 | -0.4 | 109 | 27 |
| FRANCE | PARIS/ORLY | 7 | 2 | 12 | -6 | 5 | *** | 42 | ** |
| | STRASBOURG | 5 | -1 | 15 | -10 | 2 | -0.2 | 57 | 24 |
| | BOURGES | 7 | 2 | 11 | -7 | 4 | -0.1 | 108 | 51 |
| | BORDEAUX | 10 | 4 | 15 | -4 | 7 | 0.6 | 91 | 12 |
| | TOULOUSE | 9 | 4 | 15 | -5 | 6 | -0.2 | 19 | -31 |
| | MARSEILLE | 12 | 3 | 18 | -5 | 7 | -0.5 | 0 | -54 |
| SPAIN | VALLADOLID | 11 | 0 | 18 | -4 | 6 | -0.2 | 4 | -36 |
| | MADRID | 13 | 0 | 20 | -8 | 7 | 0.1 | 11 | -39 |
| | SEVILLE | 18 | 6 | 25 | 0 | 12 | -0.2 | 5 | -58 |
| PORTUGAL | LISBON | 15 | 8 | 21 | 4 | 12 | -0.3 | 15 | -85 |
| GERMANY | HAMBURG | 4 | -1 | 10 | -11 | 2 | 0.7 | 51 | 10 |
| | BERLIN | 4 | -1 | 13 | -10 | 1 | 0.5 | 62 | 28 |
| | DUSSELDORF | 5 | 0 | 11 | -11 | 3 | 0.3 | 69 | 16 |
| | LEIPZIG | 3 | -2 | 13 | -10 | 1 | 0.4 | 51 | 20 |
| | DRESDEN | 2 | -2 | 13 | -12 | 0 | 0.8 | 52 | 16 |
| | STUTTGAERT | 3 | -2 | 14 | -14 | 0 | -0.5 | 51 | 4 |
| | NURNBERG | 3 | -2 | 13 | -14 | 0 | -0.5 | 30 | -9 |
| AUSTRIA | VIENNA | 4 | -2 | 14 | -12 | 1 | 0.7 | 65 | 35 |
| | INNSBRUCK | 1 | -5 | 9 | -14 | -2 | -2.5 | 116 | 74 |
| CZECHREP | PRAGUE | 1 | -4 | 9 | -14 | -1 | -0.5 | 20 | -2 |
| POLAND | WARSAW | 1 | -4 | 9 | -11 | -1 | 0.5 | 30 | 9 |
| | LODZ | 0 | -4 | 8 | -16 | -2 | -0.1 | 47 | 16 |
| | KATOWICE | 2 | -3 | 14 | -11 | -1 | 1.3 | 63 | 27 |
| | PRZEMYSL | 1 | -3 | 12 | -10 | -1 | 0.7 | 67 | 38 |
| HUNGARY | BUDAPEST | 3 | -2 | 11 | -10 | 1 | -0.4 | 42 | 10 |
| YUGOSLAV | BELGRADE | 6 | 0 | 19 | -7 | 3 | 0.1 | 70 | 26 |
| ROMANIA | BUCHAREST | 6 | -4 | 20 | -17 | 1 | 1.6 | 20 | -18 |
| BULGARIA | SOFIA | 4 | -4 | 16 | -12 | 0 | -1.3 | 60 | 24 |
| ITALY | MILAN | 12 | -1 | 21 | -7 | 5 | 1.3 | 0 | -61 |
| | VERONA | 8 | -1 | 13 | -6 | 4 | -0.7 | 5 | -43 |
| | VENICE | 9 | -1 | 13 | -6 | 4 | -0.9 | 13 | -39 |
| | GENOA | 13 | 6 | 17 | -1 | 9 | 0.5 | 1 | -90 |
| | ROME | 12 | 2 | 17 | -3 | 7 | -1.5 | 30 | -43 |
| | NAPLES | 12 | 3 | 17 | -2 | 8 | -1.1 | 52 | -45 |
| GREECE | THESSALONIKA | 10 | 1 | 18 | -3 | 6 | -0.9 | 25 | -16 |
| | LARISSA | 10 | 0 | 17 | -7 | 5 | -1.7 | 48 | 9 |
| | ATHENS | 14 | 7 | 19 | 2 | 11 | -0.1 | 15 | -19 |
| TURKEY | ISTANBUL | 9 | 4 | 18 | -2 | 7 | 1.0 | 122 | 52 |
| | ANKARA | 7 | -2 | 13 | -8 | 2 | 1.5 | 74 | 44 |
| CYPRUS | LARNACA | 18 | 8 | 20 | 2 | 13 | 0.9 | 39 | -22 |
| ESTONIA | TALLINN | -3 | -7 | 4 | -22 | -5 | 0.7 | 56 | 28 |
| LITHUANI | KAUNAS | -2 | -7 | 5 | -20 | -4 | -0.3 | 55 | 28 |
| BELARUS | MINSK | -2 | -7 | 3 | -22 | -4 | 1.4 | 46 | 13 |
| RUSSIA | KAZAN | -6 | -11 | 2 | -35 | -8 | 3.4 | 35 | 7 |
| | MOSCOW | -3 | -9 | 3 | -27 | -6 | 1.3 | 54 | 18 |
| | YEKATERINBUR | -5 | -11 | 2 | -25 | -8 | 4.3 | 21 | 1 |
| | OMSK | -6 | -13 | 1 | -22 | -9 | 7.3 | 16 | 1 |
| | NOVOSIBIRSK | -5 | -11 | 3 | -22 | -8 | 9.8 | 6 | -10 |
| | BARNAUL | -3 | -14 | 4 | -29 | -9 | 6.2 | 4 | -20 |
| | KHABAROVSK | -12 | -22 | 1 | -32 | -17 | -0.1 | 15 | 4 |
| | VLADIVOSTOK | -5 | -12 | 4 | -21 | -8 | 2.1 | 1 | -18 |
| | SARATOV | -3 | -7 | 2 | -29 | -5 | 5.4 | 50 | 26 |
| | VOLGOGRAD | -1 | -5 | 5 | -23 | -3 | 5.8 | 47 | 19 |
| | ASTRAKHAN | 5 | -3 | 10 | -20 | 1 | 5.8 | 12 | 3 |
| | KRASNODAR | 8 | 1 | 19 | -11 | 4 | 4.4 | 104 | 50 |
| | ORENBURG | -5 | -10 | 2 | -31 | -7 | 5.7 | 31 | 10 |
| KAZAKHST | TSELINOGRAD | -5 | -13 | 2 | -24 | -9 | 6.8 | 9 | -5 |
| | KARAGANDA | -4 | -12 | 2 | -25 | -8 | 6.0 | 12 | -7 |
| GEORGIA | TBILISI | 11 | 1 | 19 | -5 | 6 | 2.9 | 19 | -8 |

Based on Preliminary Reports

February 1999

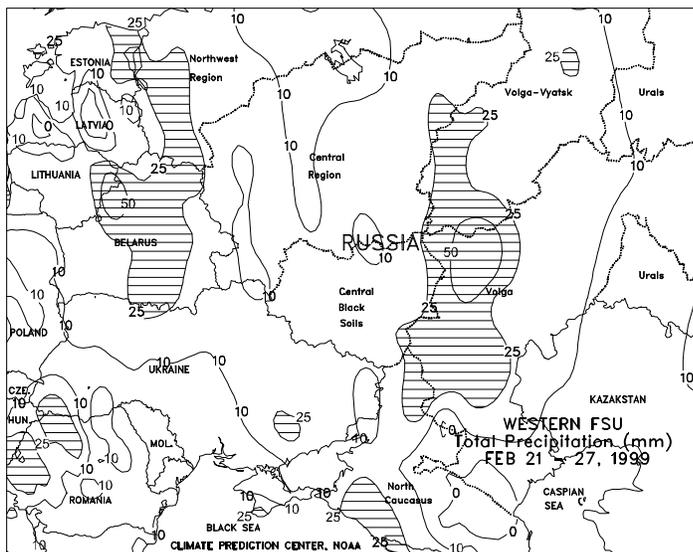
| COUNTRY CITY | TEMPERATURE (C) | | | | | PRECIPITATION (MM) | | | COUNTRY CITY | TEMPERATURE (C) | | | | | PRECIPITATION (MM) | | | |
|------------------------|-----------------|---------|--------|--------|-----|--------------------|-------|-------------|------------------------|---------------------|---------|--------|--------|-----|--------------------|-------|-------------|-----|
| | AVG MAX | AVG MIN | HI MAX | LO MIN | AVG | DPART F/NRM | TOTAL | DPART F/NRM | | AVG MAX | AVG MIN | HI MAX | LO MIN | AVG | DPART F/NRM | TOTAL | DPART F/NRM | |
| UZBEKIST TASHKENT | 15 | 4 | 23 | 0 | 9 | 7.0 | 87 | 40 | | | | | | | | | | |
| TURKMENI ASHKHABAD | 17 | 6 | 26 | 1 | 11 | 7.2 | 1 | -26 | | BETHAL | 26 | 13 | 32 | 9 | 20 | 0.5 | 28 | -71 |
| SYRIA DAMASCUS | 16 | 3 | 20 | -6 | 10 | 1.5 | 12 | -17 | | DURBAN | 29 | 22 | 32 | 19 | 25 | 1.5 | 231 | 117 |
| ISRAEL JERUSALEM | 15 | 6 | 22 | 3 | 10 | 1.2 | 66 | -68 | | CAPE TOWN | 27 | 16 | 33 | 14 | 22 | 1.4 | 1 | -15 |
| PAKISTAN KARACHI | 28 | 18 | 33 | 13 | 23 | 2.8 | 3 | -6 | CANADA | TORONTO | 2 | -6 | 13 | -16 | -2 | 4.4 | 28 | -17 |
| INDIA AMRITSAR | 23 | 9 | 27 | 3 | 16 | 1.8 | 0 | -32 | | MONTREAL | -1 | -10 | 8 | -19 | -5 | 3.6 | 47 | -10 |
| NEW DELHI | 24 | 11 | 28 | 5 | 18 | 0.5 | 1 | -18 | | WINNIPEG | -4 | -12 | 6 | -25 | -8 | 7.1 | 15 | 0 |
| AHMEDABAD | 32 | 16 | 36 | 11 | 24 | 1.5 | 0 | -1 | | REGINA | -4 | -13 | 4 | -27 | -9 | 4.2 | 9 | -5 |
| INDORE | 29 | 15 | 36 | 9 | 22 | 1.7 | 44 | 41 | | SASKATOON | -5 | -15 | 4 | -28 | -10 | 4.1 | 8 | -5 |
| CALCUTTA | 31 | 17 | 34 | 10 | 24 | 0.8 | 0 | -12 | | LETHBRIDGE | 7 | -5 | 15 | -12 | 1 | 5.6 | 28 | 15 |
| VERAVAL | 31 | 19 | 37 | 15 | 25 | 2.2 | 0 | -2 | | CALGARY | 6 | -8 | 13 | -12 | -1 | 4.7 | 0 | -10 |
| BOMBAY | 32 | 20 | 37 | 13 | 26 | 2.1 | 0 | -1 | | EDMONTON | -1 | -11 | 7 | -20 | -6 | 2.4 | 2 | -15 |
| POONA | 32 | 14 | 36 | 7 | 23 | 1.1 | 0 | -1 | | VANCOUVER | 8 | 3 | 12 | 0 | 6 | 0.8 | 210 | 88 |
| BEGAMPET | 32 | 19 | 35 | 16 | 26 | 0.7 | 2 | -6 | MEXICO | GUADALAJARA | 12 | 9 | 25 | 4 | 11 | -5.9 | 0 | -7 |
| VISHAKHAPATNAM | 30 | 22 | 32 | 20 | 26 | *** | 0 | ** | | MEXICO CITY | 22 | 10 | 26 | 2 | 16 | 1.9 | 1 | -5 |
| MADRAS | 32 | 22 | 39 | 20 | 27 | 0.8 | 0 | -14 | | ACAPULCO | 31 | 22 | 32 | 17 | 26 | 0.3 | 0 | 0 |
| MANGALORE | 35 | 23 | 38 | 21 | 29 | 1.8 | 0 | -2 | | BERMUDA ST. GEORGES | 21 | 14 | 24 | 10 | 18 | -0.3 | 80 | -28 |
| HONGKO KINGS PEAK | 22 | 16 | 28 | 11 | 19 | *** | 0 | ** | BAHAMAS NASSAU | 26 | 17 | 28 | 12 | 21 | 0.2 | 42 | 2 | |
| N KOREA PYONGYANG | ** | ** | 5 | -12 | ** | *** | ** | ** | CUBA HAVANA | 26 | 19 | 31 | 15 | 23 | 0.6 | 8 | -44 | |
| S KOREA SEOUL | 5 | -3 | 10 | -12 | 1 | 2.9 | 3 | -18 | JAMAICA KINGSTON | 30 | 22 | 32 | 19 | 26 | 0.4 | 18 | 0 | |
| JAPAN SAPPORO | -1 | -6 | 9 | -12 | -3 | 0.4 | 88 | -6 | P. RICO SAN JUAN | 28 | 21 | 29 | 18 | 24 | -1.0 | 68 | 14 | |
| NAGOYA | 9 | 1 | 16 | -6 | 5 | 0.7 | 55 | -11 | GUADELO RAIZET | 28 | 20 | 30 | 16 | 24 | 0.1 | 52 | 3 | |
| TOKYO | 11 | 3 | 18 | -1 | 7 | 1.3 | 37 | -24 | MARTINIQ LAMENTIN | 28 | 21 | 30 | 17 | 25 | 0.4 | 53 | -86 | |
| YOKOHAMA | 11 | 3 | 19 | -2 | 7 | 1.4 | 42 | -30 | BARBADO BRIDGETOWN | 29 | 22 | 30 | 21 | 26 | 0.2 | 21 | -20 | |
| KYOTO | 9 | 1 | 16 | -4 | 5 | 0.7 | 60 | -7 | TRINIDAD PORT OF SPAIN | 31 | 22 | 33 | 20 | 26 | 1.3 | 63 | 27 | |
| OSAKA | 10 | 3 | 16 | -3 | 6 | 0.6 | 52 | -9 | COLOMBI BOGOTA | 18 | 10 | 21 | 8 | 14 | 0.6 | 79 | 39 | |
| THAILAND PHETCHABUN | 35 | 21 | 39 | 16 | 28 | 1.9 | 0 | -26 | VENEZUE CARACAS | 28 | 21 | 29 | 19 | 24 | -0.3 | 18 | 3 | |
| BANGKOK | 33 | 25 | 36 | 20 | 29 | 0.8 | 30 | 6 | F GUIANA CAYENNE | 29 | 23 | 30 | 22 | 26 | 0.5 | 346 | 40 | |
| MALAYSIA KUALA LUMPUR | 33 | 24 | 34 | 22 | 28 | 1.5 | 212 | 55 | BRAZIL FORTALEZA | ** | ** | 32 | 24 | ** | *** | ** | ** | |
| VIETNAM HANOI | 23 | 18 | 29 | 11 | 20 | 3.1 | 7 | -21 | RECIFE | 31 | 24 | 32 | 21 | 27 | 0.5 | 18 | -111 | |
| CHINA HARBIN | -5 | -16 | 7 | -25 | -10 | 5.5 | 3 | -2 | BELO HORIZONTE | 29 | 22 | 34 | 20 | 25 | 1.7 | 71 | -124 | |
| HAMI | 7 | -8 | 13 | -16 | -1 | 3.8 | 0 | -1 | FRANCA | 27 | 19 | 30 | 18 | 23 | 4.8 | 177 | -51 | |
| LANCHOW | 9 | -4 | 18 | -12 | 2 | 4.1 | 0 | -2 | RIO DE JANEIRO | 31 | 25 | 34 | 20 | 28 | 1.4 | 81 | -58 | |
| BEIJING | 8 | -3 | 14 | -6 | 3 | 4.2 | 0 | -6 | LONDRINA | 29 | 21 | 32 | 19 | 25 | 0.8 | 196 | 17 | |
| TIENTSIN | 9 | -4 | 14 | -7 | 3 | 3.6 | 0 | -6 | SANTA MARIA | 29 | 19 | 33 | 13 | 24 | -0.1 | 143 | 13 | |
| LHASA | 12 | -3 | 15 | -7 | 4 | 3.0 | 6 | 6 | PORTO ALEGRE | 28 | 20 | 34 | 15 | 24 | -0.6 | 12 | -92 | |
| KUNMING | 22 | 9 | 26 | 6 | 15 | 5.7 | 0 | -14 | PERU LIMA | 28 | 22 | 31 | 20 | 25 | 1.7 | 1 | 0 | |
| CHENGCHOW | 13 | 1 | 19 | -5 | 7 | 4.6 | 0 | -14 | CHILE SANTIAGO | 30 | 12 | 33 | 9 | 21 | 1.1 | 0 | 0 | |
| YECHANG | 15 | 6 | 20 | 0 | 11 | 4.2 | 7 | -22 | ARGENTIN IGUAZU | 31 | 20 | 35 | 17 | 26 | *** | 148 | ** | |
| HANKOW | 14 | 6 | 20 | 0 | 10 | 5.1 | 8 | -49 | FORMOSA | 33 | 23 | 37 | 19 | 28 | 0.7 | 106 | -3 | |
| CHUNGKING | 14 | 10 | 18 | 6 | 12 | *** | 13 | ** | CERES | 32 | 18 | 36 | 11 | 25 | -0.1 | 69 | -50 | |
| CHIHKIANG | 15 | 7 | 25 | 1 | 11 | 4.7 | 16 | -31 | CORDOBA | 31 | 17 | 35 | 10 | 24 | 1.4 | 39 | -76 | |
| WU HU | 12 | 3 | 18 | -3 | 8 | *** | 30 | ** | RIO CUARTO | 30 | 18 | 37 | 12 | 24 | 2.1 | 3 | -84 | |
| SHANGHAI | 11 | 5 | 20 | -2 | 8 | *** | 23 | ** | ROSARIO | 30 | 18 | 35 | 12 | 24 | 0.9 | 94 | -24 | |
| NANCHANG | 15 | 7 | 23 | 1 | 11 | 4.3 | 9 | -92 | BUENOS AIRES | 28 | 17 | 33 | 9 | 22 | -0.1 | 164 | 61 | |
| TAIPEI | 19 | 15 | 28 | 9 | 17 | 2.1 | 16 | -120 | SANTA ROSA | 30 | 16 | 40 | 9 | 23 | 0.7 | 63 | -7 | |
| CANTON | 22 | 13 | 29 | 7 | 18 | 3.4 | 0 | -64 | TRES ARROYOS | 29 | 15 | 37 | 7 | 22 | 1.2 | 40 | -27 | |
| NANNING | 22 | 13 | 28 | 6 | 17 | 3.8 | 7 | -39 | NEW CAL NOUMEA | 30 | 24 | 33 | 21 | 27 | 1.3 | 189 | 66 | |
| CANARY I LAS PALMAS | 21 | 16 | 23 | 14 | 18 | 0.8 | 4 | -14 | FIJI NAUSORI | 30 | 23 | 32 | 21 | 26 | 0.0 | 199 | -72 | |
| MOROCC CASABLANCA | 16 | 8 | 26 | 4 | 12 | -1.0 | 60 | 1 | SAMOA PAGO PAGO | 31 | 25 | 33 | 24 | 28 | 0.3 | 365 | 41 | |
| MARRAKECH | 17 | 6 | 23 | 3 | 12 | -2.2 | 35 | -3 | TAHITI PAPEETE | 31 | 24 | 32 | 22 | 27 | 0.3 | 348 | 118 | |
| ALGER ALGER | 15 | 5 | 23 | 0 | 11 | -0.8 | 131 | 56 | AUSTRALI DARWIN | 29 | 25 | 31 | 23 | 27 | -0.9 | 522 | 180 | |
| BATNA | 10 | 0 | 22 | -8 | 6 | -0.6 | 9 | -21 | BRISBANE | 27 | 21 | 30 | 19 | 24 | -0.7 | 333 | 185 | |
| TUNIS TUNIS | 15 | 7 | 22 | 1 | 11 | -1.1 | 39 | -19 | PERTH | 33 | 19 | 39 | 13 | 26 | 0.8 | 1 | -13 | |
| NIGER NIAMEY | 35 | 20 | 41 | 14 | 27 | -0.2 | 0 | 0 | CEDUNA | 27 | 16 | 42 | 11 | 22 | 0.0 | 7 | -7 | |
| MALI TIMBUKTU | 29 | 18 | 37 | 8 | 23 | -0.8 | 0 | 0 | ADELAIDE | 28 | 19 | 36 | 12 | 24 | 1.7 | 2 | -41 | |
| BAMAOK | 33 | 25 | 39 | 15 | 29 | 0.6 | 0 | 0 | MELBOURNE | 26 | 16 | 35 | 10 | 21 | 0.6 | 64 | 18 | |
| MAURITAN NOUAKCHOTT | 29 | 14 | 34 | 11 | 21 | -1.3 | 0 | 0 | WAGGA | 30 | 18 | 38 | 9 | 24 | 0.1 | 8 | -25 | |
| SENEGAL DAKAR | 23 | 17 | 28 | 16 | 20 | -0.5 | 0 | -1 | CANBERRA | 25 | 13 | 33 | 7 | 19 | -0.9 | 10 | -47 | |
| CHAGOS DIEGO GARCIA | 31 | 27 | 34 | 24 | 29 | 1.6 | 155 | -126 | INDONESI DJAKARTA | 29 | 25 | 33 | 19 | 27 | 0.7 | 175 | ** | |
| LIBYA TRIPOLI | 16 | 6 | 25 | -2 | 11 | -2.0 | 37 | 2 | PHILIPPI MANILA | 30 | 25 | 33 | 23 | 27 | 0.6 | 11 | 3 | |
| BENGHAZI | 16 | 9 | 22 | 6 | 13 | -0.6 | 17 | -25 | | | | | | | | | | |
| EGYPT CAIRO | 20 | 10 | 28 | 7 | 15 | -0.1 | 6 | 4 | | | | | | | | | | |
| ETHIOPIA ADDIS ABABA | 26 | 10 | 35 | 5 | 18 | 1.5 | 0 | -37 | | | | | | | | | | |
| KENYA NAIROBI | 29 | 14 | 32 | 10 | 21 | 1.2 | 10 | -38 | | | | | | | | | | |
| TANZANIA DAR ES SALAAM | 32 | 24 | 35 | 20 | 28 | 0.3 | 1097 | 1039 | | | | | | | | | | |
| GABON LIBREVILLE | 30 | 24 | 32 | 21 | 27 | 0.0 | 102 | -170 | | | | | | | | | | |
| TOGO LOME | 32 | 24 | 34 | 20 | 29 | 0.6 | 33 | 1 | | | | | | | | | | |
| BURKINA OUAGADOUGOU | 35 | 20 | 40 | 15 | 27 | -0.4 | 12 | 12 | | | | | | | | | | |
| COTE D'I ABIDJAN | 33 | 25 | 34 | 20 | 29 | 1.3 | 33 | -15 | | | | | | | | | | |
| MOZAMBI MAPUTO | 30 | 22 | 35 | 19 | 26 | -0.1 | 186 | 53 | | | | | | | | | | |
| ZAMBIA LUSAKA | ** | ** | 28 | 14 | ** | *** | 146 | -43 | | | | | | | | | | |
| ZIMBABW HARARE | ** | ** | 27 | 12 | ** | *** | ** | ** | | | | | | | | | | |
| S AFRICA PRETORIA | 31 | 18 | 35 | 17 | 24 | 2.4 | 50 | -27 | | | | | | | | | | |
| JOHANNESBURG | 26 | 13 | 30 | 4 | 20 | 0.5 | 26 | -69 | | | | | | | | | | |

Based on Preliminary Reports



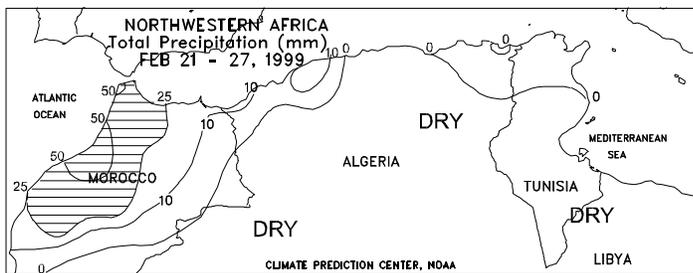
EUROPE

Widespread rain and snow continued to fall over most of the region, boosting moisture supplies for the upcoming growing season. The greatest amounts of precipitation (50-100 mm or more) were confined to higher elevations in central Europe, where heavy snow continued to fall. The combination of moderate rain (25-50 mm) and melting snow in Croatia, Hungary, and northwestern Romania increased the likelihood for flooding in winter grain areas. Light showers spread as far south as central and southern Spain, providing some relief to winter grains previously stressed by prolonged dryness. Light to moderate showers (10-26 mm) continued to boost moisture reserves in England, the Benelux countries, France, and Spain. Unseasonably mild weather (weekly temperatures averaging 2-4 degrees C above normal) likely prompted earlier-than-usual greening of winter grains in England and France, while winter grains in southern Spain continued to develop. Winter grains likely continued dormant over remaining areas in Europe. A warming trend in eastern Europe melted most protective snow cover by week's end.



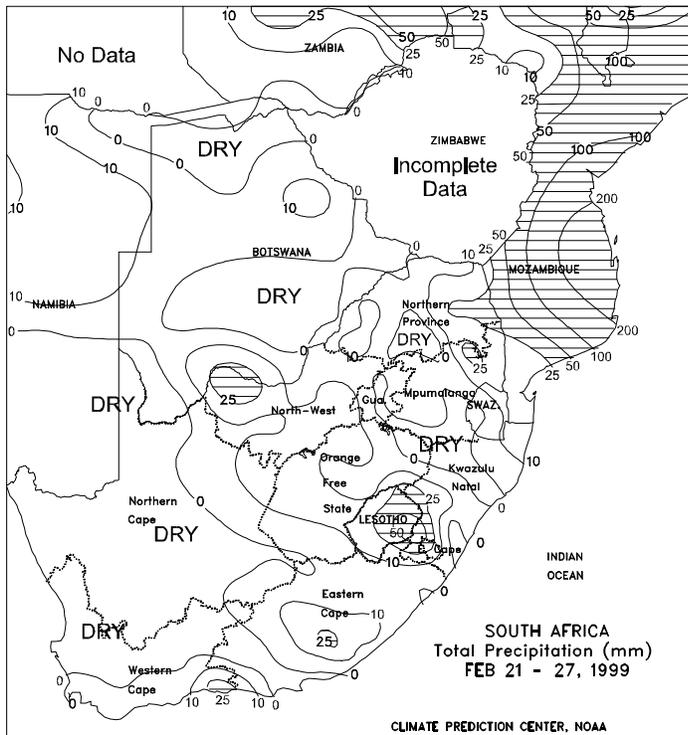
FSU-WESTERN

Unseasonably mild weather continued to prevail over most of the region, maintaining favorable overwintering conditions for winter grains. Weekly temperatures averaged 2 to 4 degrees C above normal in the Baltics, Belarus, and western Ukraine, and 4 to 7 degrees C above normal over the remainder of Ukraine and Russia. Despite the mild weather, average temperatures ranged near to below freezing during the week, keeping winter grains dormant. A midweek winter storm spread moderate to locally heavy snow (10-40 mm or more, liquid equivalent) from the Baltics southward through Belarus into western Ukraine. Heavy snow (13-52 mm, liquid equivalent) also fell in the eastern Black Soils Region and the middle Volga Valley, increasing the snow cover in these areas as well. By week's end, a moderate to deep snow cover (10-50 cm or more) was observed in the Baltics, Belarus, western Ukraine, and most of Russia as far south as the extreme northern tip of the North Caucasus. Reports indicated that snow cover in northern Russia has persisted over unfrozen soils during the entire winter, increasing the likelihood for fungal development. Most winter grain areas in the eastern two-thirds of Ukraine and the North Caucasus region in Russia remained snow-free during the week.



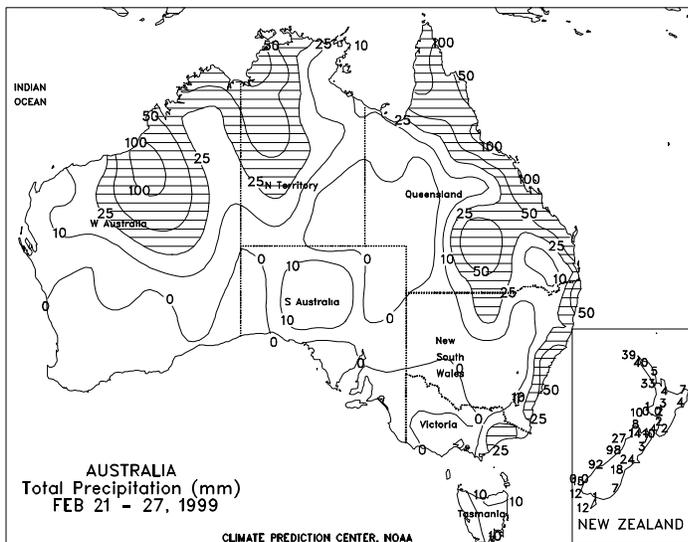
NORTHWESTERN AFRICA

Following 4 consecutive weeks of dry weather, soaking rains (25 to 50 mm, with local amounts in excess of 50 mm) in Morocco improved moisture conditions for winter grain development. Farther east, generally dry weather prevailed over winter grain areas in Algeria and Tunisia, with light, scattered showers (2 to 10 mm) confined to crop areas closest to the coast. Weekly temperatures averaged 1 to 2 degrees C below normal in Morocco, slowing crop development. Weekly temperatures averaged 2 to 4 degrees C above normal in Algeria and Tunisia, spurring crop development but increasing crop-water requirements. Winter grains over the region are in the jointing stage and normally advance through reproduction in late March and April.



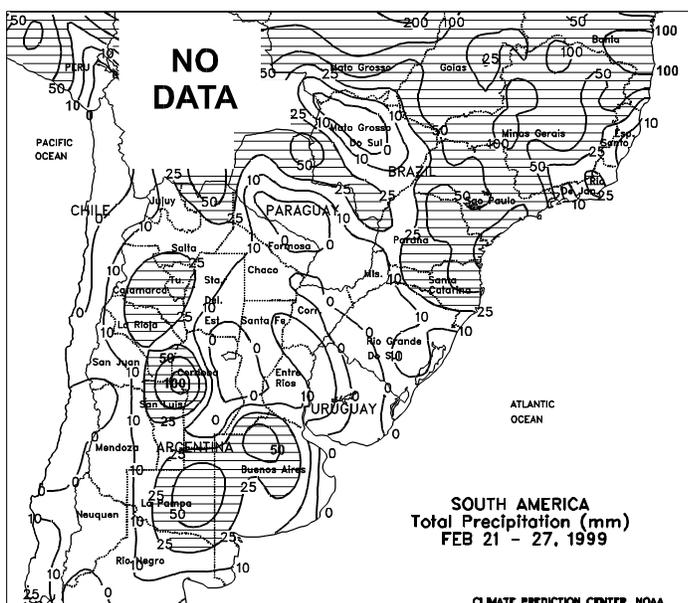
SOUTH AFRICA

Following last week's beneficial rainfall, drier weather returned to the eastern corn belt. In fact, no rain was reported over a large area eastern Free State as well as neighboring sections of Mpumalanga, Gauteng, and KwaZulu Natal. Temperatures averaged slightly above normal, with highs generally hovering in the lower 30's degrees C. While corn and other summer crops in eastern growing areas should largely past the important moisture- and temperature-sensitive reproductive phases of development, continued dryness and summer warmth could threaten yield potential by accelerating crop maturity. Farther west scattered showers (10-25 mm) benefited local corn- and sunflower producing areas of North West and central Free State. Mostly clear weather covered coastal crop areas, although locally heavy rains (25-mm or more) near Lesotho continued to increase irrigation reserves for sugarcane in southern KwaZulu Natal.



AUSTRALIA

Widespread, soaking rain covered the primary summer crop areas of eastern Australia. Rainfall totaled 25 to 50 mm or more over Queensland's western and northern sorghum- and cotton-producing areas, hampering early harvesting and raising quality concerns. Rain was still falling at the end of the reporting period, causing further harvest disruptions elsewhere in southern Queensland and also in New South Wales. Along the coast, moderate to heavy rain (50-100 mm) locally approaching 200 mm caused some additional flooding in the northern sugarcane belt but otherwise kept crops well watered. Elsewhere, dry weather dominated agricultural areas of the west and southeast. Summer warmth (highs in the middle to upper 30's degrees C, but exceeding 40 degrees C in southwestern Queensland) maintain high moisture demands on grazing and pasture lands. In New Zealand scattered showers (2-24 mm) brought only local drought relief to farms in northeastern South Island and southern North Island. More moderate showers (25-40 mm) benefited agricultural districts in northwest North Island.



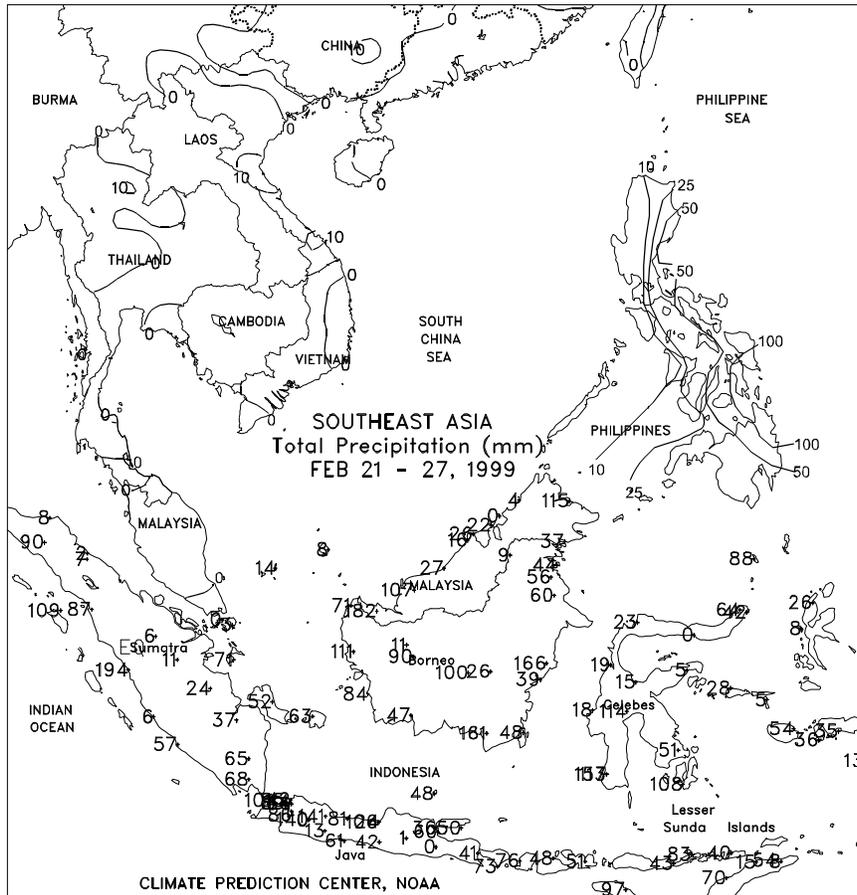
SOUTH AMERICA

In central Argentina, warmer, drier weather reduced soil moisture for filling corn and first-crop soybeans, and reproductive second-crop soybeans in southern Cordoba and Santa Fe. However, subsoil moisture was adequate for summer crop development. Beneficial showers (30-mm) covered northern La Pampa and northern Buenos Aires, aiding summer crops. Dry, warm weather favored cotton development in northern Argentina and southern Paraguay. In southern Brazil, recent drier weather also reduced soil moisture in Rio Grande do Sul. Elsewhere in southern Brazil, showers (25-90 mm) maintained favorable soil moisture for filling soybeans. Temperatures averaged 2 to 4 degrees C above normal in central Argentina and southern Brazil.



EASTERN ASIA

Continued mild weather (temperatures averaged 3-6 degrees C above normal) caused winter wheat to break dormancy across most of the North China Plain. Wheat is still dormant in the northern provinces of Hebei and Shanxi. Light rain (5-18 mm) aided greening wheat and oilseeds in Jiangsu and Anhui. In the rest of the North China Plain, however, seasonably dry weather still limited soil moisture for vegetative rainfed wheat. Mostly dry weather (less than 5 mm) hampered early rice transplanting across southeastern China.



SOUTHEAST ASIA

Widespread showers (40-100 mm) covered the eastern Philippines, maintaining favorable moisture for second-crop grains. Seasonably dry weather prevailed across Thailand and the major rice areas of Vietnam. Variable showers (10-90 mm) prevailed across oil palm-producing areas of peninsular Malaysia. Moderate showers (30-100 mm) maintained moisture supplies for main-season rice in Java, Indonesia.

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Weather Data for Selected Locations in the Delta

Weather Data for the Week Ending February 27, 1999

Data provided by the Mississippi State Delta Research and Extension Center and compiled by USDA/OCE/WAOB's Stoneville Field Office

| STATES AND STATIONS | TEMPERATURE °F | | | | | | PRECIPITATION | | | | | | | | 4-INCH SOIL TEMP, °F | | 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 | TEMP. °F | | PRECIP. | | |
| | | | | | | | | | | | | | | | | 90 AND ABOVE | 32 AND BELOW | .01 INCH OR MORE | .50 INCH OR MORE | |
| MS INDIANOLA 1S | 61 | 39 | 75 | 28 | 50 | -- | 0.57 | -- | 0.48 | 19.02 | -- | 11.45 | -- | 53 | 48 | 0 | 3 | 2 | 0 | |
| INVERNESS 5E | 59 | 37 | 77 | 28 | 48 | -- | 0.14 | -- | 0.11 | -- | -- | -- | -- | 55 | 47 | 0 | 2 | 2 | 0 | |
| LYON | 60 | 37 | 73 | 26 | 49 | -- | 0.25 | -- | 0.13 | 15.31 | -- | 10.71 | -- | -- | -- | 0 | 3 | 2 | 0 | |
| ONWARD | 64 | 41 | 76 | 28 | 53 | -- | 0.49 | -- | 0.47 | -- | -- | 10.30 | -- | 53 | 50 | 0 | 2 | 3 | 0 | |
| SIDON | 59 | 37 | 75 | 28 | 48 | -- | 0.11 | -- | 0.08 | 21.25 | -- | 11.39 | -- | 56 | 47 | 0 | 2 | 2 | 0 | |
| STONEVILLE * | 58 | 37 | 74 | 26 | 48 | 0 | 0.17 | -0.99 | 0.12 | 20.96 | 141 | 14.86 | 162 | 56 | 46 | 0 | 3 | 2 | 0 | |

* Based on 1964-93 normals.

Weather and Crop Summary: Seasonably, cooler weather prevailed early in the week, with morning temperatures falling below freezing. By week's end, however, daily maximum temperatures were well above normal, allowing for some pre-planting fieldwork. Scattered, light precipitation fell toward the end of the week. Nonetheless, soil moisture diminished compared to previous weeks.

(Continued from page 2)

but their January-February precipitation to 13.56 inches (140 percent). Farther south, however, late-week showers were not enough to prevent the driest February on record in locations such as **Mobile, AL** (1.09 inches) and **Montgomery, AL** (1.11 inches).

On Monday, **Mobile's** low temperature fell to 29°F, followed a day later by a minimum of 26°F in **Gainesville, FL**. Meanwhile, snow again fell in the **western Corn Belt**. Following last week's 8.6 inches of snow, another 7.2 inches fell in **Omaha, NE** on February 22-23. **Omaha's** February 17-23 snowfall (15.8 inches) accounted for 61 percent of their season-to-date total. Elsewhere

in the **Midwest**, February 22-23 snowfall included 5.9 inches in **Sioux Falls, SD** and 4.6 inches in **Des Moines, IA**. On February 23, the month's only measurable snowfall occurred in locations such as **Evansville, IN** (3.3 inches), **Springfield, IL** (3.2 inches), and **Washington, DC** (0.2 inch). Farther north, heavy snow overspread **eastern New England** on Thursday. Storm-total (February 25-26) snowfall reached 6.0 inches in **Boston, MA** and 11.4 inches in **Providence, RI**, accompanied by northerly wind gusts to 32 mph at both sites. On the eastern tip of **Long Island**, 13.5 inches fell at **Montauk, NY**. Across **eastern Massachusetts**, wind gusts topped 40 mph, and snowfall reached 17 inches in **Nantucket** and 24 inches in **Harwich**.

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