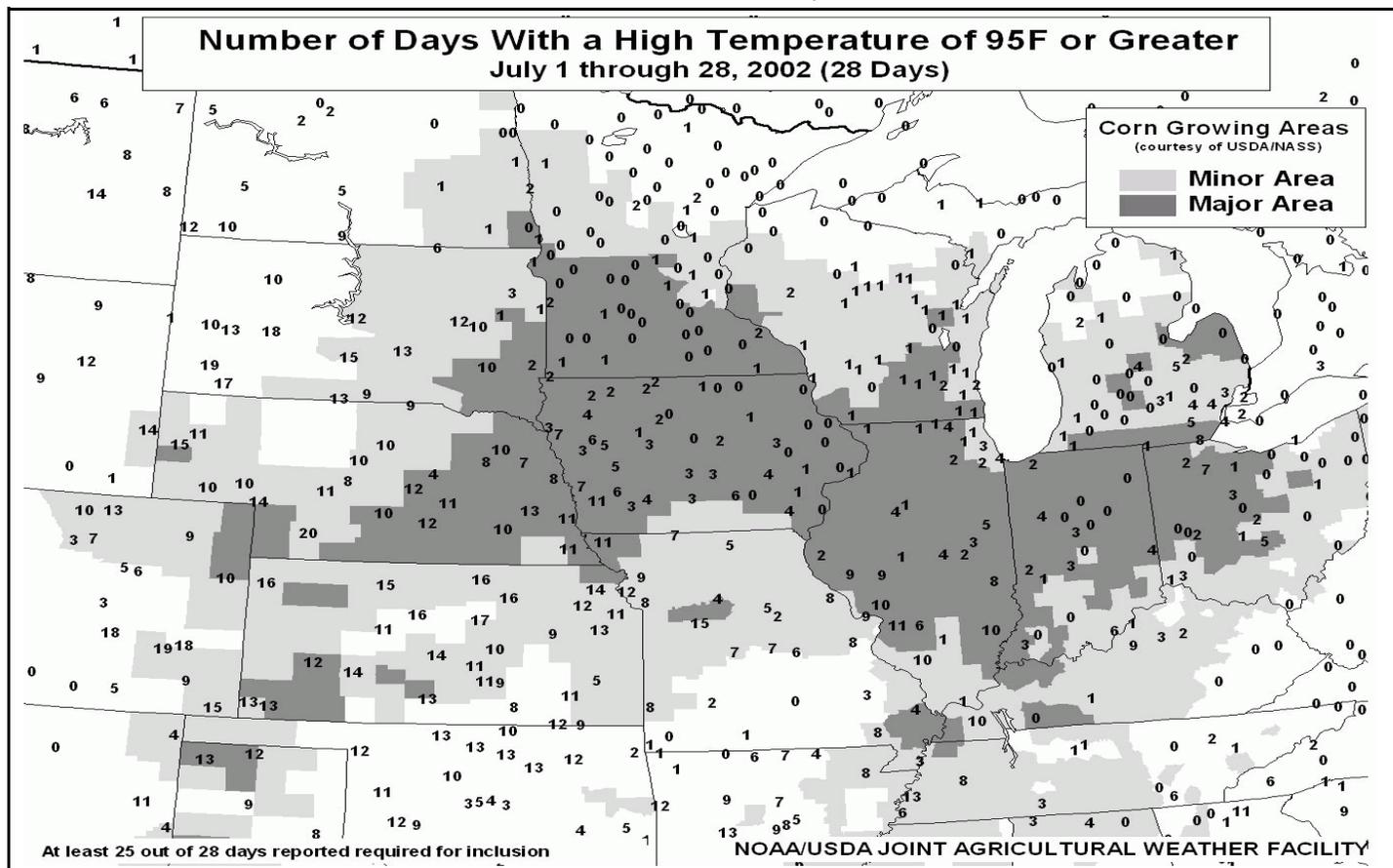


WEEKLY WEATHER AND CROP BULLETIN



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

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



HIGHLIGHTS

July 21 - 27, 2002

Highlights provided by USDA/WAOB

Widespread showers provided much-needed moisture for reproductive to filling summer crops across the **Midwest**. Although the **Midwestern** showers eased moisture stress on corn and soybeans, heat stress remained a concern across the **westernmost Corn Belt** and many other areas were still in need of additional rain. **Corn Belt** temperatures ranged from near normal to as much as 5°F above normal. Meanwhile, pastures and dryland summer crops continued to deteriorate on portions of the **Plains**, although scattered showers provided limited and localized drought relief. Temperatures averaged near normal on the **northern Plains**, but soared 2 to 6°F above

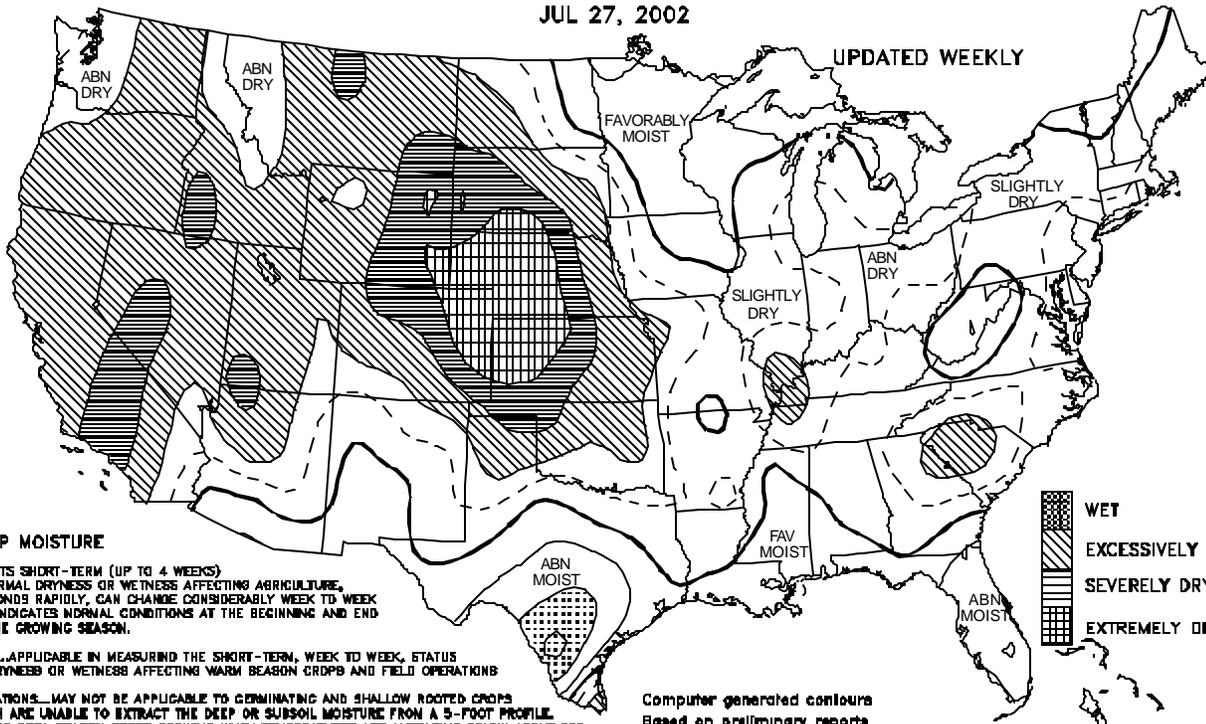
(Continued on page 3)

Contents

| | |
|---|----|
| Crop Moisture Maps | 2 |
| Temperature Departure & Extreme Maximum Temperature Maps | 3 |
| Weather Data for Mississippi and the Missouri Bootheel & Total Precipitation Map ... | 4 |
| Growing Degree Day Maps | 5 |
| National Weather Data for Selected Cities | 6 |
| National Agricultural Summary | 9 |
| Crop Progress and Condition Tables | 10 |
| Pasture Condition Table | 13 |
| State Agricultural Summaries | 14 |
| International Weather and Crop Summary | 20 |
| Subscription Information & July 23 Drought Monitor | 24 |

Crop Moisture
SHORT TERM, CROP NEED VS. AVAILABLE WATER IN 5-FT. SOIL PROFILE
JUL 27, 2002

UPDATED WEEKLY



CROP MOISTURE

DEPICTS SHORT-TERM (UP TO 4 WEEKS) ABNORMAL DRYNESS OR WETNESS AFFECTING AGRICULTURE. RESPONDS RAPIDLY, CAN CHANGE CONSIDERABLY WEEK TO WEEK AND INDICATES NORMAL CONDITIONS AT THE BEGINNING AND END OF THE GROWING SEASON.

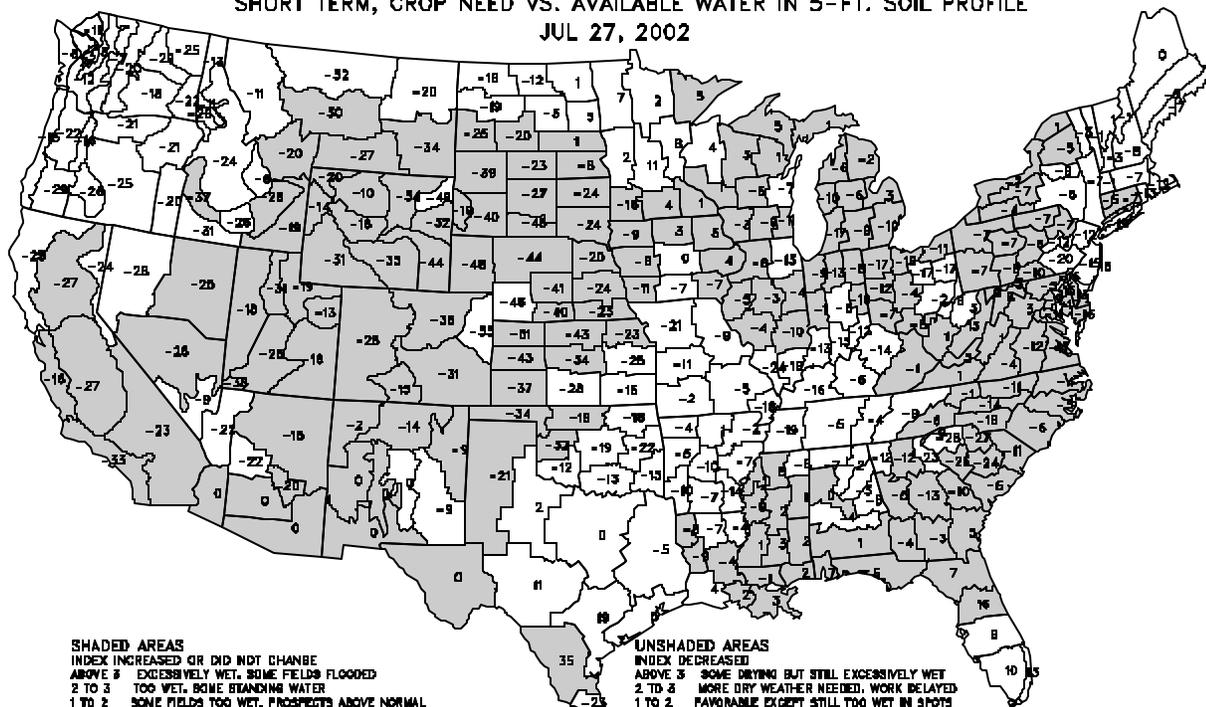
USES...APPLICABLE IN MEASURING THE SHORT-TERM, WEEK TO WEEK, STATUS OF DRYNESS OR WETNESS AFFECTING WARM SEASON CROPS AND FIELD OPERATIONS

LIMITATIONS...MAY NOT BE APPLICABLE TO GERMINATING AND SHALLOW ROOTED CROPS WHICH ARE UNABLE TO EXTRACT THE DEEP OR SUBSOIL MOISTURE FROM A 5-FOOT PROFILE. OR FOR COOL SEASON CROPS GROWING WHEN TEMPERATURES ARE AVERAGING BELOW ABOUT 55F. IT IS NOT GENERALLY INDICATIVE OF THE LONG-TERM (MONTHS, YEARS) DROUGHT OR WET SPELLS WHICH ARE DEPICTED BY THE DROUGHT SEVERITY INDEX.

Computer generated contours
Based on preliminary reports

NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY

Crop Moisture Index
SHORT TERM, CROP NEED VS. AVAILABLE WATER IN 5-FT. SOIL PROFILE
JUL 27, 2002



SHADED AREAS

INDEX INCREASED OR DID NOT CHANGE
 ABOVE 5 EXCESSIVELY WET, SOME FIELDS FLOODED
 2 TO 3 TOO WET, SOME STANDING WATER
 1 TO 2 SOME FIELDS TOO WET, PROSPECTS ABOVE NORMAL
 0 TO 1 MOISTURE ADEQUATE FOR PRESENT CROP NEEDS
 0 TO -1 PROSPECTS IMPROVED BUT RAIN STILL NEEDED
 -1 TO -2 SOME IMPROVEMENT BUT STILL ABNORMALLY DRY
 -2 TO -3 DRYNESS EASED BUT FIELDS STILL EXCESSIVELY DRY
 -3 TO -4 SEVERE DRYNESS CONTINUED, MORE RAIN URGENTLY NEEDED
 BELOW -4 NOT ENOUGH RAIN, STILL EXTREMELY DRY

UNSHADED AREAS

INDEX DECREASED
 ABOVE 3 SOME DRYING BUT STILL EXCESSIVELY WET
 2 TO 3 MORE DRY WEATHER NEEDED, WORK DELAYED
 1 TO 2 FAVORABLE EXCEPT STILL TOO WET IN SPOTS
 0 TO 1 FAVORABLE FOR NORMAL GROWTH AND FLOWERING
 0 TO -1 TOPSOIL MOISTURE SHORT GERMINATION SLOW
 -1 TO -2 ABNORMALLY DRY, PROSPECTS DETERIORATING
 -2 TO -3 EXCESSIVELY DRY, YIELD PROSPECTS REDUCED
 -3 TO -4 POTENTIAL YIELDS SEVERELY CUT BY DRYNESS
 BELOW -4 EXTREMELY DRY, MOST CROPS RUINED

NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY

BASED ON PRELIMINARY DATA

(Continued from front cover)

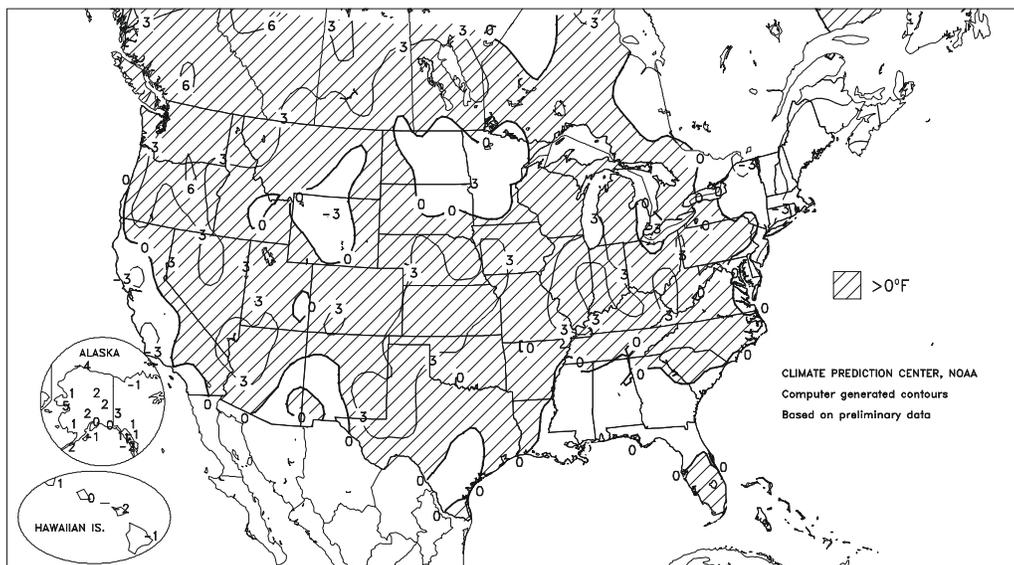
normal on the **central and southern Plains**, peaking near 110°F on July 25 in **northern Kansas**. In contrast, near-normal temperatures prevailed across the **South**, where widespread rainfall aided pastures and summer crops from the **Delta to the East Coast**. Farther west, very warm, mostly dry weather promoted rapid crop development in the **western Gulf Coast region**. Elsewhere, hot, dry weather persisted in the **West Coast States**, increasing stress on dryland summer crops, maintaining heavy irrigation demands, and fostering the spread of several large wildfires. Isolated showers across the **Rockies and Four Corners region** provided only slight relief from a serious long-term drought.

Early in the week, daily-record heat crept into the **Corn Belt** and the **East**. Meanwhile, **Midwestern** showers helped to offset the effects of hot weather, while more significant relief overspread the **Southeast**. On July 21, daily-record highs in **Wisconsin** included 99°F in Appleton and 96°F in **Green Bay**. Farther south, **Audubon Park in New Orleans, LA** (98°F), also posted a daily-record high on Sunday, while **Atlanta, GA** (95°F), marked their hottest day since a high of 97°F on August 19, 2000. **Indianapolis, IN**, noted maximum temperatures of 94°F on July 21, 22, and 28, their highest readings since September 4 and 5, 1999, when highs also peaked at 94°F. **Indianapolis'** highest temperature last summer was 92°F on August 7, 8, and 22; their highest readings the previous year occurred on 91°F on August 15 and September 2, 2000. Elsewhere, enough maritime air crept into **California's Central Valley** on July 22 to end downtown **Sacramento's** streak of high temperatures at or above 90°F at 29 days (June 23 - July 21). Only streaks in 1992 (40 days) and 1967 (35 days) were longer. However, hot weather persisted across the **interior Northwest**, where daily-record highs on July 24 included 104°F in **Sunnyside, WA**, and 92°F in **Rock Springs, WY**. After midweek, record heat spread across the **central High Plains**, where **Russell, KS**, logged consecutive daily-record highs of 108°F on July 25 and 26. **Hill City, KS**, also collected a daily-record high on July 25, measuring 110°F.

On July 29, the National Interagency Fire Center reported that there were 32 large, active wildfires were burning across nine **Western States**, cumulatively responsible for the consumption of more than 550,000 acres of vegetation. **Oregon** accounted for 14 of the active fires and a little over 300,000 acres, including the 87,000-acre Toolbox Complex south of **Silver Lake**. Year-to-date burned acreage reached 3.99 million acres, 213 percent of the 10-year average for January 1 - July 29. Farther east, daily-rainfall records were scattered across the **Midwest and Florida**. **Mason City, IA** (1.53 inches), registered a daily-record total on July 22, followed the next day by a 3.06-inch sum in **Columbus, OH**. During the preceding 46 days (June 7 - July 22), only 1.38 inches had fallen in **Columbus**. Pockets

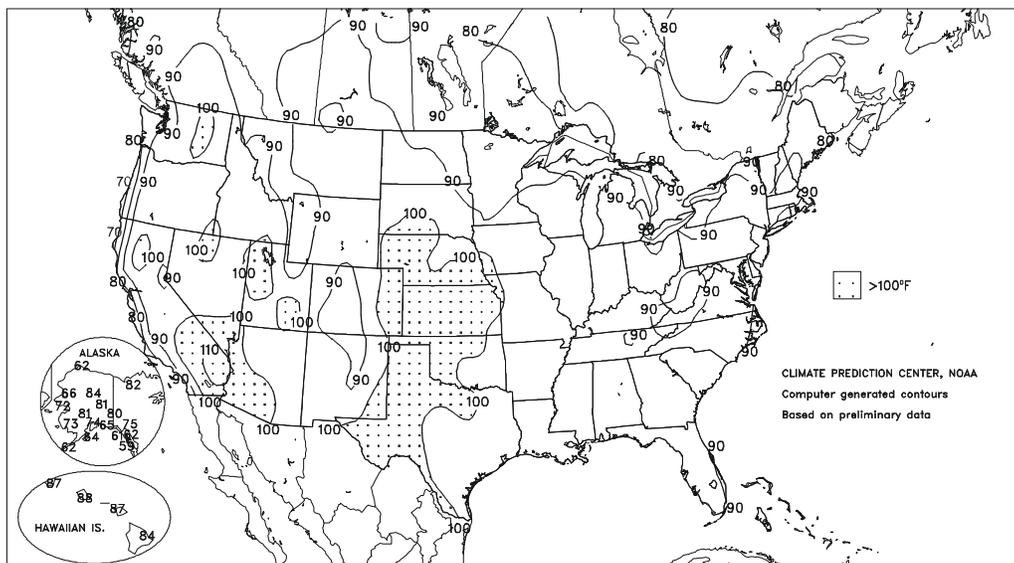
Departure of Average Temperature from Normal (°F)

JUL 21 - 27, 2002



Extreme Maximum Temperature (°F)

JUL 21 - 27, 2002



of dryness persisted in the **eastern and westernmost Corn Belt**, leaving July 1-28 totals as low as 0.96 inch (30 percent of normal) in **Ft. Wayne, IN**, and 0.51 inch (15 percent) in **Norfolk, NE**. Farther west in **Nebraska**, no measurable rain fell during the first 28 days of July in locations such as **Scottsbluff** and **Chadron**. In contrast, daily-record totals in **Florida** included 1.03 inches (on July 23) in **Daytona Beach** and 2.94 inches (on July 26) in **Jacksonville**.

Moderate to locally heavy showers returned to windward portions of **Hawaii**, following several weeks of light shower activity. On the **Big Island**, 24-hour totals on July 26-27 included 3.12 inches in **Waiakaea Uka**, 2.90 inches in **Mountain View**, and 2.73 inches in **Piuhouua**. Month-to-date (July 1-28) rainfall at the major airport stations ranged from 0.10 inch (23 percent of normal) in **Honolulu** to 6.41 inches (66 percent) in **Hilo**. Meanwhile, showery weather and near-normal temperatures prevailed in **Alaska**. Month-to-date precipitation remained near or above normal at most **Alaskan** locations, including **Kodiak** (5.96 inches, or 159 percent of normal), **Juneau** (4.70 inches, or 127 percent), and **Fairbanks** (2.62 inches, or 169 percent), but was substantially below normal in **Barrow** (0.06 inch, or 8 percent).

Weather Data for Mississippi and the Missouri Bootheel

Weather Data for the Week Ending July 27, 2002

Data provided by the Mississippi State Delta Research and Extension Center (DREC), the Southern Regional Climate Center (SRCC), and the University of Missouri.

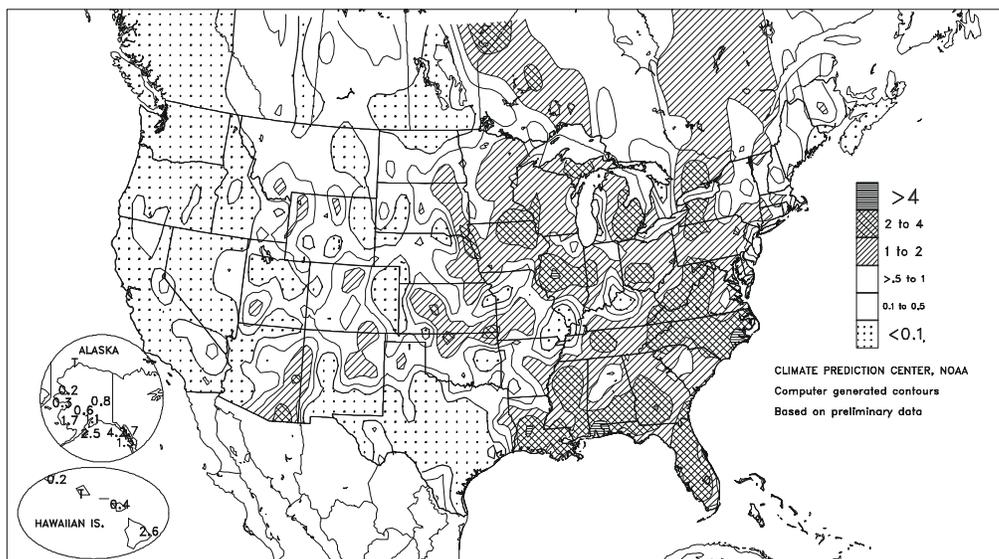
| STATES AND STATIONS | TEMPERATURE °F | | | | | | PRECIPITATION | | | | | | | 4-INCH SOIL TEMP. °F | | NUMBER OF DAYS | | | |
|----------------------------|-----------------|-----------------|--------------|-------------|---------|-----------------------|-------------------|-----------------------|--------------------------|-----------------------|-------------------------|-----------------------|-------------------------|----------------------|-----------------|----------------|--------------|------------------|------------------|
| | 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 Jun 1 | PCT. NORMAL SINCE Jun 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 BATESVILLE ^x | 90 | 71 | 94 | 69 | 81 | 0 | 0.40 | -0.45 | 0.30 | 5.60 | 63 | 37.66 | 109 | -- | -- | 3 | 0 | 3 | 0 |
| BELZONI ^x | 93 | 73 | 95 | 71 | 83 | 1 | 0.60 | -0.55 | 0.45 | 3.50 | 41 | -- | -- | -- | -- | 7 | 0 | 4 | 0 |
| CLARKSDALE ^x | 91 | 73 | 95 | 71 | 82 | 0 | 1.29 | 0.47 | 1.00 | 5.32 | 61 | 38.80 | 113 | -- | -- | 5 | 0 | 3 | 1 |
| CLEVELAND ^x | 93 | 73 | 95 | 72 | 83 | -1 | 1.18 | 0.37 | 0.63 | 4.82 | 56 | 33.56 | 95 | -- | -- | 7 | 0 | 3 | 1 |
| GREENVILLE ^x | 93 | 73 | 97 | 72 | 83 | 0 | 0.95 | 0.14 | 0.95 | 7.31 | 91 | 35.58 | 103 | -- | -- | 6 | 0 | 1 | 1 |
| GREENWOOD ^x | 91 | 72 | 94 | 69 | 82 | -1 | 2.32 | 1.45 | 0.89 | 6.19 | 75 | 29.32 | 85 | -- | -- | 5 | 0 | 6 | 3 |
| INDIANOLA 1S | 92 | 73 | 95 | 71 | 83 | -- | 0.56 | -- | 0.54 | 5.69 | -- | 28.09 | -- | 86 | 79 | 6 | 0 | 3 | 1 |
| INVERNESS 5E | 91 | 73 | 93 | 71 | 82 | -- | 0.57 | -- | 0.57 | 5.24 | -- | 26.81 | -- | 95 | 82 | 5 | 0 | 1 | 1 |
| LYON | 93 | 73 | 96 | 71 | 83 | -- | 0.47 | -- | 0.27 | 4.72 | -- | -- | -- | 89 | 80 | 7 | 0 | 4 | 0 |
| MACON | 90 | 70 | 93 | 69 | 80 | -- | 0.91 | -- | 0.43 | 5.29 | -- | 22.97 | -- | 89 | 78 | 4 | 0 | 3 | 0 |
| MOORHEAD ^x | 92 | 74 | 97 | 71 | 83 | 0 | 3.02 | -0.68 | 0.32 | 2.99 | 35 | 25.10 | 71 | -- | -- | 6 | 0 | 1 | 0 |
| ONWARD | 91 | 72 | 95 | 69 | 82 | -- | 2.08 | -- | 1.33 | 6.80 | -- | 25.38 | -- | 88 | 81 | 6 | 0 | 3 | 1 |
| PERTHSHIRE | 92 | 73 | 95 | 72 | 83 | -- | 0.62 | -- | 0.61 | 6.47 | -- | -- | -- | 96 | 81 | 7 | 0 | 2 | 1 |
| ROLLING FORK ^x | 94 | 73 | 98 | 71 | 84 | 2 | 0.77 | -0.08 | 0.77 | 3.25 | 41 | 23.60 | 73 | -- | -- | 6 | 0 | 1 | 1 |
| SIDON | 91 | 72 | 96 | 69 | 82 | -- | 1.27 | -- | 0.63 | 4.63 | -- | 25.77 | -- | 96 | 81 | 6 | 0 | 4 | 1 |
| STARKVILLE | 90 | 71 | 94 | 69 | 81 | -- | 1.06 | -- | 0.34 | 6.11 | -- | -- | -- | 89 | 78 | 4 | 0 | 5 | 0 |
| TUNICA ^x | 91 | 74 | 95 | 71 | 83 | 1 | 1.40 | 0.66 | 1.40 | 6.04 | 70 | 32.22 | 94 | -- | -- | 5 | 0 | 1 | 1 |
| TUNICA 1W | 92 | 73 | 95 | 70 | 83 | -- | 1.16 | -- | 1.16 | 6.02 | -- | 30.72 | -- | 85 | 79 | 6 | 0 | 1 | 1 |
| VANCE | 92 | 72 | 96 | 70 | 82 | -- | 3.27 | -- | 2.16 | 7.60 | -- | -- | -- | 86 | 78 | 6 | 0 | 3 | 2 |
| VERONA | 91 | 72 | 94 | 70 | 82 | -- | 0.33 | -- | 0.18 | 7.54 | -- | 33.02 | -- | 93 | 79 | 5 | 0 | 3 | 0 |
| VICKSBURG ^x | 93 | 74 | 95 | 72 | 84 | 2 | 0.49 | -0.44 | 0.49 | 6.19 | 77 | 26.25 | 72 | -- | -- | 7 | 0 | 1 | 0 |
| YAZOO CITY ^x | 91 | 72 | 94 | 69 | 82 | 0 | 2.43 | 1.51 | 1.03 | 7.38 | 96 | 36.09 | 96 | -- | -- | 6 | 0 | 4 | 2 |
| STONEVILLE ^x | 94 | 73 | 97 | 71 | 84 | 1 | 1.75 | 0.96 | 1.61 | 7.44 | 99 | 34.99 | 104 | 97 | 84 | 7 | 0 | 2 | 1 |
| MO CARDWELL | 90 | 74 | 93 | 71 | 82 | 1 | 0.00 | -1.17 | 0.00 | 7.01 | 95 | 26.31 | 85 | 94 | 80 | 4 | 0 | 0 | 0 |
| CHARLESTON | 92 | 74 | 94 | 72 | 82 | 3 | 0.34 | -0.75 | 0.34 | 5.22 | 66 | 29.71 | 100 | 94 | 79 | 5 | 0 | 1 | 0 |
| CLARKTON | 92 | 74 | 96 | 69 | 83 | 3 | 0.00 | -0.95 | 0.00 | 6.21 | 86 | 31.76 | 115 | 93 | 79 | 5 | 0 | 0 | 0 |
| DELTA | 91 | 72 | 94 | 69 | 81 | 1 | 0.12 | -0.94 | 0.12 | 6.23 | 85 | 38.32 | 125 | 87 | 78 | 5 | 0 | 1 | 0 |
| GLENNONVILLE | 91 | 74 | 94 | 70 | 82 | 2 | 0.05 | -0.90 | 0.05 | 3.79 | 53 | 26.07 | 94 | 94 | 78 | 4 | 0 | 1 | 0 |
| PORTAGEVILLE #1 | 92 | 75 | 94 | 72 | 83 | 3 | 0.00 | -1.11 | 0.00 | 4.45 | 57 | 25.96 | 86 | 94 | 81 | 5 | 0 | 0 | 0 |
| PORTAGEVILLE #2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| STEELE | 92 | 75 | 95 | 71 | 83 | 3 | 0.00 | -1.16 | 0.00 | 6.25 | 74 | 27.76 | 88 | 95 | 84 | 6 | 0 | 0 | 0 |

Compiled by USDA/OCE/WAOB's Stoneville Field Office. ^x Based on 1971-2000 normals.

Weather and Crop Summary: Typically hot weather and high humidity led to scattered thunderstorms, especially across Mississippi. Locally heavy downpours occurred in Mississippi, with isolated locations receiving over 3 inches for the week. Corn was in the dough or dent stage in the Bootheel, but reached black-layer stage in much of Mississippi. In the Delta, some sorghum and non-irrigated corn was drying down. Delta rice was booting or heading. Soybeans continued to set pods, with Group IV beans beginning to dry down in the southern Delta. Delta cotton was setting bolls, while Bootheel cotton was squaring and beginning to set bolls.

Total Precipitation (Inches)

JUL 21 - 27, 2002



CLIMATE PREDICTION CENTER, NOAA
Computer generated contours
Based on preliminary data

National Weather Data for Selected Cities

Weather Data for the Week Ending July 27, 2002

Data Provided by Climate Prediction Center (301-763-8000, Ext. 7503)

| 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 Mar 1 | PCT. NORMAL SINCE Mar 1 | TOTAL IN, SINCE Jan 1 | PCT. NORMAL SINCE Jan 1 | AVERAGE MAXIMUM | AVERAGE MINIMUM | TEMP. °F | | PRECIP | | |
| | | | | | | | | | | | | | | | | 90 AND ABOVE | 32 AND BELOW | 0.1 INCH OR MORE | 5.0 INCH OR MORE | |
| AL | BIRMINGHAM | 89 | 73 | 91 | 71 | 81 | 0 | 0.36 | -0.76 | 0.35 | 12.68 | 154 | 35.25 | 105 | 92 | 56 | 4 | 0 | 2 | 0 |
| | HUNTSVILLE | 87 | 71 | 91 | 68 | 79 | -1 | 1.29 | 0.35 | 0.79 | 6.92 | 86 | 27.62 | 79 | 96 | 74 | 2 | 0 | 5 | 1 |
| | MOBILE | 89 | 72 | 91 | 70 | 80 | -2 | 5.13 | 3.63 | 2.83 | 12.26 | 115 | 30.93 | 78 | 94 | 69 | 3 | 0 | 6 | 2 |
| | MONTGOMERY | 91 | 72 | 93 | 70 | 81 | -1 | 2.15 | 1.03 | 1.25 | 8.79 | 100 | 21.68 | 63 | 98 | 62 | 5 | 0 | 6 | 1 |
| AK | ANCHORAGE | 65 | 53 | 74 | 49 | 59 | 0 | 1.13 | 0.69 | 0.59 | 2.49 | 103 | 4.21 | 74 | 92 | 77 | 0 | 0 | 6 | 1 |
| | BARROW | 40 | 32 | 62 | 28 | 36 | -5 | 0.02 | -0.20 | 0.01 | 0.66 | 65 | 1.15 | 73 | 97 | 86 | 0 | 3 | 2 | 0 |
| | FAIRBANKS | 72 | 56 | 81 | 50 | 64 | 2 | 0.77 | 0.38 | 0.30 | 3.38 | 119 | 7.63 | 158 | 83 | 63 | 0 | 0 | 3 | 0 |
| | JUNEAU | 59 | 52 | 62 | 49 | 56 | -1 | 1.68 | 0.70 | 0.60 | 8.02 | 117 | 21.12 | 82 | 98 | 95 | 0 | 0 | 7 | 1 |
| | KODIAK | 58 | 49 | 64 | 44 | 54 | -1 | 2.46 | 1.63 | 0.92 | 13.28 | 148 | 44.32 | 111 | 90 | 81 | 0 | 0 | 5 | 3 |
| | NOME | 66 | 51 | 72 | 38 | 59 | 6 | 0.29 | -0.26 | 0.29 | 1.81 | 63 | 7.10 | 109 | 83 | 67 | 0 | 0 | 1 | 0 |
| AZ | FLAGSTAFF | 83 | 56 | 87 | 52 | 69 | 2 | 0.91 | 0.25 | 0.65 | 2.60 | 109 | 3.82 | 32 | 81 | 30 | 0 | 0 | 2 | 1 |
| | PHOENIX | 10 | 84 | 10 | 76 | 95 | 2 | 0.41 | 0.15 | 0.40 | 1.18 | 136 | 1.37 | 35 | 51 | 31 | 7 | 0 | 2 | 0 |
| | TUCSON | 96 | 74 | 10 | 68 | 85 | -1 | 1.18 | 0.61 | 0.71 | 2.70 | 141 | 3.38 | 66 | 73 | 45 | 6 | 0 | 3 | 1 |
| | YUMA | 10 | 83 | 10 | 82 | 95 | 0 | 0.00 | -0.07 | 0.00 | 0.00 | 0 | 0.17 | 14 | 39 | 28 | 7 | 0 | 0 | 0 |
| AR | FORT SMITH | 96 | 74 | 98 | 71 | 85 | 2 | 0.00 | -0.63 | 0.00 | 4.88 | 69 | 28.65 | 114 | 95 | 52 | 7 | 0 | 0 | 0 |
| | LITTLE ROCK | 92 | 74 | 94 | 72 | 83 | 0 | 0.31 | -0.36 | 0.28 | 3.69 | 54 | 26.23 | 90 | 96 | 58 | 7 | 0 | 3 | 0 |
| CA | BAKERSFIELD | 97 | 68 | 10 | 64 | 82 | -2 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 1.59 | 34 | 50 | 34 | 7 | 0 | 0 | 0 |
| | FRESNO | 97 | 65 | 99 | 62 | 81 | -1 | 0.00 | 0.00 | 0.00 | 0.02 | 9 | 2.73 | 35 | 64 | 40 | 7 | 0 | 0 | 0 |
| | LOS ANGELES | 76 | 64 | 81 | 62 | 70 | 0 | 0.00 | 0.00 | 0.00 | 0.04 | 50 | 1.56 | 17 | 84 | 68 | 0 | 0 | 0 | 0 |
| | REDDING | 99 | 66 | 10 | 61 | 82 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 10.86 | 50 | 59 | 39 | 7 | 0 | 0 | 0 |
| | SACRAMENTO | 90 | 58 | 10 | 54 | 74 | -2 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 8.37 | 70 | 88 | 32 | 4 | 0 | 0 | 0 |
| | SAN DIEGO | 74 | 65 | 80 | 63 | 69 | -3 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 1.58 | 21 | 84 | 73 | 0 | 0 | 0 | 0 |
| | SAN FRANCISCO | 72 | 56 | 75 | 53 | 64 | 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 5.96 | 45 | 88 | 69 | 0 | 0 | 0 | 0 |
| | STOCKTON | 91 | 56 | 98 | 52 | 73 | -5 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 4.61 | 51 | 83 | 53 | 4 | 0 | 0 | 0 |
| CO | ALAMOSA | 84 | 50 | 88 | 45 | 67 | 3 | 0.22 | -0.01 | 0.14 | 0.69 | 52 | 1.68 | 48 | 85 | 51 | 0 | 0 | 4 | 0 |
| | CO SPRINGS | 88 | 59 | 95 | 57 | 73 | 3 | 0.67 | -0.05 | 0.35 | 2.36 | 51 | 3.93 | 38 | 75 | 23 | 2 | 0 | 3 | 0 |
| | DENVER INTL | 90 | 60 | 95 | 53 | 75 | 2 | 0.00 | -0.55 | 0.00 | 2.84 | 80 | 5.07 | 58 | 67 | 24 | 5 | 0 | 0 | 0 |
| | GRAND JUNCTION | 94 | 63 | 99 | 56 | 79 | 2 | 0.13 | -0.04 | 0.11 | 0.21 | 23 | 1.89 | 39 | 65 | 36 | 5 | 0 | 2 | 0 |
| | PUEBLO | 96 | 63 | 10 | 60 | 79 | 3 | 0.20 | -0.32 | 0.20 | 1.27 | 42 | 2.19 | 30 | 67 | 35 | 6 | 0 | 1 | 0 |
| CT | BRIDGEPORT | 79 | 66 | 91 | 60 | 72 | -3 | 0.43 | -0.42 | 0.43 | 5.42 | 80 | 20.53 | 80 | 84 | 63 | 1 | 0 | 1 | 0 |
| | HARTFORD | 83 | 61 | 95 | 53 | 72 | -2 | 0.59 | -0.24 | 0.59 | 7.38 | 106 | 22.48 | 87 | 88 | 57 | 2 | 0 | 1 | 1 |
| DC | WASHINGTON | 86 | 72 | 97 | 67 | 79 | 0 | 0.73 | -0.11 | 0.69 | 6.04 | 96 | 16.83 | 75 | 95 | 63 | 3 | 0 | 3 | 1 |
| DE | WILMINGTON | 83 | 68 | 95 | 65 | 76 | -1 | 0.15 | -0.79 | 0.11 | 6.29 | 86 | 19.15 | 76 | 94 | 55 | 2 | 0 | 3 | 0 |
| FL | DAYTONA BEACH | 90 | 74 | 92 | 70 | 82 | 0 | 1.33 | 0.25 | 1.03 | 19.65 | 193 | 30.13 | 117 | 97 | 59 | 4 | 0 | 4 | 1 |
| | JACKSONVILLE | 90 | 71 | 93 | 70 | 81 | -1 | 4.01 | 2.73 | 2.94 | 11.90 | 113 | 24.46 | 88 | 96 | 57 | 5 | 0 | 5 | 2 |
| | KEY WEST | 90 | 81 | 91 | 78 | 85 | 0 | 0.50 | -0.22 | 0.48 | 9.27 | 127 | 17.88 | 97 | 82 | 71 | 6 | 0 | 3 | 0 |
| | MIAMI | 89 | 79 | 90 | 76 | 84 | 0 | 1.17 | -0.03 | 0.79 | 28.00 | 207 | 42.25 | 146 | 83 | 64 | 5 | 0 | 3 | 1 |
| | ORLANDO | 91 | 74 | 93 | 71 | 83 | 1 | 1.93 | 0.47 | 1.74 | 20.67 | 151 | 29.44 | 105 | 95 | 59 | 6 | 0 | 2 | 1 |
| | PENSACOLA | 88 | 73 | 90 | 71 | 80 | -3 | 2.26 | 0.48 | 1.19 | 11.31 | 85 | 28.10 | 74 | 95 | 70 | 1 | 0 | 7 | 1 |
| | TALLAHASSEE | 89 | 72 | 93 | 71 | 80 | -2 | 1.81 | 0.00 | 0.63 | 7.59 | 55 | 27.98 | 72 | 96 | 75 | 2 | 0 | 5 | 2 |
| | TAMPA | 90 | 75 | 94 | 70 | 82 | -1 | 1.92 | 0.46 | 1.57 | 18.61 | 168 | 27.48 | 117 | 91 | 68 | 3 | 0 | 4 | 1 |
| | WEST PALM | 91 | 80 | 91 | 76 | 85 | 2 | 0.05 | -1.12 | 0.05 | 26.12 | 203 | 44.06 | 139 | 81 | 65 | 7 | 0 | 1 | 0 |
| GA | ATHENS | 90 | 70 | 94 | 67 | 80 | 0 | 0.35 | -0.63 | 0.23 | 7.07 | 91 | 25.21 | 87 | 94 | 72 | 4 | 0 | 4 | 0 |
| | ATLANTA | 89 | 71 | 95 | 69 | 80 | 0 | 1.98 | 0.85 | 1.44 | 5.39 | 67 | 24.03 | 78 | 94 | 65 | 2 | 0 | 3 | 1 |
| | AUGUSTA | 93 | 70 | 96 | 68 | 81 | 0 | 0.01 | -0.90 | 0.01 | 7.15 | 93 | 19.31 | 72 | 95 | 67 | 6 | 0 | 1 | 0 |
| | COLUMBUS | 91 | 73 | 95 | 72 | 82 | 0 | 1.33 | 0.19 | 0.41 | 8.69 | 110 | 24.71 | 81 | 94 | 52 | 4 | 0 | 6 | 0 |
| | MACON | 92 | 71 | 96 | 70 | 82 | 1 | 1.47 | 0.52 | 0.84 | 3.56 | 49 | 19.87 | 71 | 96 | 53 | 6 | 0 | 4 | 1 |
| | SAVANNAH | 90 | 72 | 92 | 71 | 81 | -1 | 0.87 | -0.52 | 0.85 | 13.93 | 131 | 24.76 | 88 | 99 | 75 | 5 | 0 | 3 | 1 |
| HI | HILO | 82 | 69 | 84 | 66 | 75 | -1 | 2.57 | 0.15 | 1.42 | 13.84 | 83 | 91.93 | 131 | 90 | 80 | 0 | 0 | 7 | 1 |
| | HONOLULU | 87 | 75 | 88 | 74 | 81 | 0 | 0.01 | -0.10 | 0.01 | 0.18 | 23 | 9.34 | 97 | 72 | 64 | 0 | 0 | 1 | 0 |
| | KAHULUI | 85 | 70 | 87 | 64 | 78 | -1 | 0.44 | 0.33 | 0.35 | 0.70 | 119 | 9.73 | 85 | 88 | 74 | 0 | 0 | 2 | 0 |
| | LIHUE | 85 | 74 | 87 | 72 | 80 | 1 | 0.19 | -0.30 | 0.07 | 2.19 | 60 | 21.64 | 103 | 82 | 72 | 0 | 0 | 5 | 0 |
| ID | BOISE | 93 | 64 | 99 | 61 | 79 | 3 | 0.02 | -0.03 | 0.02 | 0.29 | 28 | 3.32 | 44 | 48 | 28 | 6 | 0 | 1 | 0 |
| | LEWISTON | 95 | 65 | 10 | 59 | 80 | 5 | 0.02 | -0.12 | 0.01 | 1.57 | 90 | 6.24 | 80 | 55 | 36 | 6 | 0 | 2 | 0 |
| | POCATELLO | 91 | 51 | 98 | 48 | 71 | 1 | 0.14 | 0.00 | 0.14 | 0.60 | 42 | 4.53 | 59 | 79 | 42 | 4 | 0 | 1 | 0 |
| IL | CHICAGO/O'HARE | 85 | 69 | 96 | 63 | 77 | 3 | 0.30 | -0.51 | 0.29 | 7.22 | 110 | 20.11 | 102 | 88 | 67 | 2 | 0 | 2 | 0 |
| | MOLINE | 88 | 68 | 94 | 57 | 78 | 2 | 1.28 | 0.39 | 1.25 | 6.77 | 84 | 20.77 | 94 | 85 | 64 | 2 | 0 | 2 | 1 |
| | PEORIA | 90 | 70 | 98 | 62 | 80 | 5 | 1.23 | 0.37 | 1.18 | 6.09 | 83 | 23.25 | 110 | 90 | 59 | 3 | 0 | 2 | 1 |
| | ROCKFORD | 88 | 66 | 98 | 55 | 77 | 4 | 1.27 | 0.42 | 0.80 | 9.08 | 109 | 20.23 | 96 | 86 | 60 | 1 | 0 | 2 | 1 |
| | SPRINGFIELD | 89 | 68 | 95 | 59 | 78 | 2 | 1.72 | 0.95 | 1.40 | 7.91 | 117 | 28.19 | 136 | 93 | 73 | 3 | 0 | 3 | 1 |
| IN | EVANSVILLE | 89 | 72 | 94 | 66 | 81 | 2 | 0.63 | -0.17 | 0.61 | 3.70 | 50 | 28.60 | 105 | 94 | 70 | 3 | 0 | 2 | 1 |
| | FORT WAYNE | 87 | 65 | 94 | 57 | 76 | 2 | 0.43 | -0.34 | 0.31 | 4.13 | 58 | 20.95 | 98 | 93 | 56 | 2 | 0 | 3 | 0 |
| | INDIANAPOLIS | 88 | 70 | 94 | 63 | 79 | 3 | 0.22 | -0.76 | 0.12 | 4.44 | 56 | 25.74 | 106 | 92 | 62 | 3 | 0 | 3 | 0 |
| | SOUTH BEND | 87 | 68 | 96 | 57 | 77 | 4 | 0.51 | -0.26 | 0.27 | 3.14 | 42 | 19.44 | 90 | 87 | 58 | 2 | 0 | 4 | 0 |
| IA | BURLINGTON | 86 | 68 | 92 | 60 | 77 | 0 | 0.98 | 0.02 | 0.85 | 9.06 | 109 | 25.03 | 113 | 94 | 59 | 2 | 0 | 2 | 1 |
| | CEDAR RAPIDS | 84 | 65 | 92 | 57 | 74 | -1 | 2.60 | 1.72 | 1.87 | 10.01 | 125 | 21.14 | 109 | 96 | 59 | 1 | 0 | 3 | 2 |
| | DES MOINES | 86 | 69 | 96 | 61 | 78 | 1 | 0.68 | -0.25 | 0.25 | 9.75 | 120 | 19.47 | 95 | 89 | 71 | 2 | 0 | 5 | 0 |
| | DUBUQUE | 82 | 64 | 90 | 54 | 73 | 0 | 1.01 | 0.17 | 0.57 | 12.26 | 169 | 23.67 | 118 | 91 | 74 | 1 | 0 | 2 | 1 |
| | SIoux CITY | 87 | 65 | 96 | 56 | 76 | 1 | 2.89 | 2.18 | 1.50 | 7.75 | 120 | 15.21 | 94 | 93 | 68 | 2 | 0 | 5 | 2 |
| | WATERLOO | 86 | 65 | 96 | 57 | 75 | 1 | 1.07 | 0.18 | 0.58 | 6.35 | 75 | 15.92 | 80 | 98 | 72 | 2 | 0 | 5 | 1 |
| KS | CONCORDIA | 10 | 70 | 10 | 60 | 85 | 5 | 0.00 | -0.93 | 0.00 | 0.98 | 13 | 8.09 | 45 | 75 | 41 | 6 | 0 | 0 | 0 |
| | DODGE CITY | 99 | 70 | 10 | 65 | 85 | 5 | 0.01 | -0.69 | 0.01 | 1.73 | 30 | 5.46 | 38 | 86 | 35 | 6 | 0 | 1 | 0 |
| | GOODLAND | 96 | 63 | 10 | 57 | 80 | 4 | 0.03 | -0.77 | 0.03 | 1.93 | 30 | 4.69 | 35 | 80 | 38 | 6 | 0 | 1 | 0 |
| | TOPEKA | 97 | 71 | 10 | 62 | 84 | 5 | 0.00 | -0.80 | 0.00 | 4.18 | 51 | 16.68 | 80 | 79 | 48 | 7 | 0 | 0 | 0 |

Based on 1961-90 normals

Weather Data for the Week Ending July 27, 2002

| 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 Mar 1 | PCT. NORMAL SINCE Mar 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 | |
| KY | WICHITA | 98 | 72 | 104 | 68 | 85 | 3 | 0.30 | -0.38 | 0.22 | 5.95 | 84 | 16.67 | 90 | 79 | 48 | 6 | 0 | 2 | 0 |
| | JACKSON | 85 | 70 | 90 | 68 | 78 | 3 | 0.89 | -0.12 | 0.85 | 9.57 | 111 | 32.20 | 110 | 99 | 68 | 1 | 0 | 2 | 1 |
| | LEXINGTON | 89 | 71 | 93 | 68 | 80 | 4 | 0.07 | -0.99 | 0.05 | 4.19 | 48 | 25.10 | 89 | 95 | 68 | 3 | 0 | 2 | 0 |
| | LOUISVILLE | 90 | 73 | 94 | 69 | 82 | 3 | 0.12 | -0.85 | 0.12 | 4.97 | 67 | 30.36 | 112 | 86 | 55 | 4 | 0 | 1 | 0 |
| | PADUCAH | 94 | 74 | 96 | 70 | 84 | 6 | 0.00 | -0.88 | 0.00 | 2.30 | 27 | 32.06 | 108 | 95 | 49 | 7 | 0 | 0 | 0 |
| LA | BATON ROUGE | 92 | 72 | 94 | 71 | 82 | 0 | 0.34 | -0.98 | 0.27 | 6.38 | 61 | 28.01 | 74 | 96 | 58 | 5 | 0 | 2 | 0 |
| | LAKE CHARLES | 92 | 74 | 95 | 70 | 83 | 0 | 2.96 | 1.92 | 1.73 | 19.99 | 189 | 36.19 | 111 | 95 | 61 | 5 | 0 | 3 | 3 |
| | NEW ORLEANS | 91 | 74 | 94 | 73 | 83 | 0 | 0.98 | -0.26 | 0.44 | 9.20 | 75 | 24.03 | 62 | 91 | 65 | 6 | 0 | 5 | 0 |
| | SHREVEPORT | 94 | 75 | 97 | 73 | 84 | 0 | 0.17 | -0.61 | 0.17 | 5.29 | 62 | 21.32 | 68 | 93 | 54 | 6 | 0 | 1 | 0 |
| ME | CARIBOU | 74 | 50 | 84 | 44 | 62 | - | 0.50 | -0.41 | 0.44 | 8.85 | 134 | 23.37 | 116 | 93 | 53 | 0 | 0 | 3 | 0 |
| | PORTLAND | 74 | 57 | 90 | 49 | 66 | - | 0.68 | -0.04 | 0.67 | 7.33 | 120 | 25.25 | 99 | 90 | 63 | 1 | 0 | 2 | 1 |
| MD | BALTIMORE | 85 | 68 | 97 | 60 | 77 | 0 | 0.78 | -0.09 | 0.49 | 4.66 | 69 | 18.03 | 75 | 94 | 64 | 2 | 0 | 4 | 0 |
| MA | BOSTON | 80 | 62 | 97 | 58 | 71 | - | 0.53 | -0.13 | 0.46 | 6.17 | 106 | 21.94 | 92 | 85 | 53 | 2 | 0 | 2 | 0 |
| | WORCESTER | 76 | 59 | 90 | 52 | 67 | - | 0.10 | -0.84 | 0.10 | 6.28 | 83 | 23.53 | 86 | 97 | 56 | 1 | 0 | 1 | 0 |
| MI | ALPENA | 79 | 57 | 87 | 47 | 68 | 1 | 1.76 | 1.01 | 1.20 | 6.36 | 122 | 17.23 | 112 | 95 | 53 | 0 | 0 | 3 | 2 |
| | GRAND RAPIDS | 85 | 63 | 94 | 52 | 74 | 2 | 0.85 | 0.12 | 0.61 | 3.00 | 44 | 16.28 | 82 | 93 | 53 | 2 | 0 | 4 | 1 |
| | HOUGHTON LAKE | 82 | 55 | 89 | 44 | 69 | 2 | 0.58 | -0.05 | 0.57 | 2.72 | 52 | 14.00 | 93 | 94 | 66 | 0 | 0 | 2 | 1 |
| | LANSING | 84 | 60 | 93 | 45 | 72 | 1 | 1.95 | 1.43 | 0.92 | 4.89 | 83 | 14.76 | 86 | 89 | 63 | 2 | 0 | 4 | 2 |
| | MUSKEGON | 83 | 66 | 90 | 53 | 75 | 4 | 0.49 | -0.05 | 0.35 | 4.62 | 103 | 15.85 | 96 | 84 | 62 | 1 | 0 | 3 | 0 |
| | TRAVERSE CITY | 83 | 62 | 94 | 52 | 72 | 2 | 0.23 | -0.41 | 0.22 | 2.65 | 44 | 14.88 | 84 | 91 | 43 | 1 | 0 | 2 | 0 |
| MN | DULUTH | 77 | 57 | 84 | 43 | 67 | 1 | 1.05 | 0.17 | 0.47 | 10.09 | 128 | 17.76 | 107 | 92 | 71 | 0 | 0 | 5 | 0 |
| | INTL FALLS | 78 | 52 | 86 | 41 | 65 | - | 0.36 | -0.31 | 0.32 | 11.69 | 169 | 15.65 | 118 | 97 | 56 | 0 | 0 | 3 | 0 |
| | MINNEAPOLIS | 81 | 65 | 91 | 52 | 73 | - | 1.05 | 0.17 | 0.72 | 12.61 | 161 | 20.92 | 123 | 88 | 67 | 1 | 0 | 3 | 1 |
| | ROCHESTER | 79 | 62 | 89 | 56 | 71 | 1 | 2.23 | 1.20 | 1.66 | 12.44 | 156 | 20.88 | 115 | 96 | 74 | 0 | 0 | 5 | 1 |
| | ST. CLOUD | 79 | 60 | 86 | 50 | 69 | - | 2.00 | 1.31 | 0.84 | 9.82 | 133 | 18.83 | 123 | 97 | 68 | 0 | 0 | 7 | 2 |
| MS | JACKSON | 90 | 71 | 93 | 69 | 81 | - | 3.04 | 2.00 | 2.31 | 10.45 | 133 | 33.04 | 95 | 95 | 61 | 5 | 0 | 4 | 1 |
| | MERIDIAN | 91 | 71 | 94 | 69 | 81 | - | 1.45 | 0.27 | 1.05 | 6.86 | 78 | 23.79 | 64 | 10 | 91 | 5 | 0 | 4 | 1 |
| | TUPELO | 90 | 72 | 93 | 70 | 81 | 0 | 1.26 | 0.54 | 0.69 | 7.64 | 95 | 35.64 | 102 | 99 | 78 | 4 | 0 | 6 | 1 |
| MO | COLUMBIA | 90 | 69 | 95 | 64 | 80 | 2 | 0.41 | -0.42 | 0.41 | 5.62 | 77 | 25.20 | 107 | 93 | 55 | 4 | 0 | 1 | 0 |
| | KANSAS CITY | 96 | 72 | 103 | 64 | 84 | 5 | 0.04 | -0.90 | 0.04 | 2.25 | 27 | 17.21 | 78 | 86 | 46 | 6 | 0 | 1 | 0 |
| | SAINT LOUIS | 94 | 75 | 100 | 68 | 85 | 4 | 0.56 | -0.27 | 0.25 | 6.75 | 94 | 26.47 | 115 | 83 | 56 | 5 | 0 | 3 | 0 |
| | SPRINGFIELD | 90 | 70 | 94 | 63 | 80 | 1 | 0.18 | -0.45 | 0.15 | 4.52 | 55 | 26.11 | 103 | 94 | 63 | 5 | 0 | 2 | 0 |
| MT | BILLINGS | 86 | 60 | 98 | 54 | 73 | 0 | 0.49 | 0.25 | 0.33 | 2.03 | 68 | 6.02 | 62 | 71 | 30 | 2 | 0 | 2 | 0 |
| | BUTTE | 79 | 48 | 87 | 45 | 63 | - | 0.26 | -0.04 | 0.18 | 3.54 | 107 | 6.68 | 82 | 85 | 29 | 0 | 0 | 3 | 0 |
| | GLASGOW | 86 | 59 | 96 | 49 | 72 | 1 | 0.00 | -0.35 | 0.00 | 5.72 | 153 | 8.29 | 114 | 76 | 40 | 3 | 0 | 0 | 0 |
| | GREAT FALLS | 84 | 57 | 92 | 53 | 70 | 3 | 0.39 | 0.09 | 0.21 | 6.55 | 190 | 9.84 | 103 | 73 | 28 | 3 | 0 | 2 | 0 |
| | HAVRE | 85 | 55 | 96 | 45 | 70 | 0 | 0.30 | 0.00 | 0.21 | 6.92 | 217 | 9.35 | 126 | 79 | 43 | 3 | 0 | 2 | 0 |
| | KALISPELL | 86 | 53 | 91 | 49 | 69 | 4 | 0.29 | 0.04 | 0.29 | 3.07 | 87 | 7.69 | 73 | 76 | 42 | 1 | 0 | 1 | 0 |
| | MISSOULA | 89 | 58 | 94 | 51 | 74 | 6 | 0.02 | -0.20 | 0.02 | 3.34 | 127 | 8.07 | 95 | 68 | 38 | 3 | 0 | 1 | 0 |
| NE | GRAND ISLAND | 92 | 67 | 102 | 60 | 80 | 4 | 0.86 | 0.17 | 0.47 | 2.60 | 40 | 9.20 | 56 | 91 | 60 | 4 | 0 | 4 | 0 |
| | LINCOLN | 93 | 67 | 104 | 59 | 80 | 2 | 0.32 | -0.48 | 0.15 | 1.72 | 26 | 11.56 | 67 | 89 | 52 | 4 | 0 | 5 | 0 |
| | NORFOLK | 91 | 65 | 97 | 57 | 78 | 3 | 0.52 | -0.25 | 0.28 | 3.99 | 53 | 9.79 | 57 | 90 | 59 | 4 | 0 | 3 | 0 |
| | NORTH PLATTE | 93 | 63 | 101 | 58 | 78 | 3 | 0.35 | -0.34 | 0.30 | 2.68 | 45 | 6.18 | 46 | 87 | 29 | 5 | 0 | 3 | 0 |
| | OMAHA | 90 | 69 | 104 | 61 | 80 | 3 | 1.79 | 0.96 | 1.26 | 4.79 | 66 | 13.81 | 75 | 83 | 56 | 4 | 0 | 4 | 1 |
| | SCOTTSBLUFF | 92 | 58 | 101 | 54 | 75 | 1 | 0.00 | -0.41 | 0.00 | 0.60 | 13 | 2.18 | 19 | 83 | 36 | 5 | 0 | 0 | 0 |
| | VALENTINE | 94 | 62 | 104 | 53 | 78 | 3 | 0.12 | -0.61 | 0.11 | 1.15 | 19 | 6.86 | 53 | 79 | 34 | 5 | 0 | 2 | 0 |
| NV | ELY | 89 | 51 | 93 | 46 | 70 | 1 | 0.10 | -0.05 | 0.09 | 0.34 | 31 | 2.38 | 41 | 63 | 36 | 3 | 0 | 2 | 0 |
| | LAS VEGAS | 105 | 84 | 107 | 82 | 95 | 3 | 0.00 | -0.11 | 0.00 | 0.35 | 90 | 0.45 | 17 | 30 | 22 | 7 | 0 | 0 | 0 |
| | RENO | 95 | 59 | 98 | 55 | 77 | 5 | 0.00 | -0.03 | 0.00 | 0.24 | 38 | 2.90 | 63 | 39 | 22 | 7 | 0 | 0 | 0 |
| | WINNEMUCCA | 96 | 52 | 100 | 46 | 74 | 1 | 0.00 | -0.03 | 0.00 | 0.12 | 14 | 3.89 | 76 | 41 | 22 | 7 | 0 | 0 | 0 |
| NH | CONCORD | 81 | 56 | 94 | 46 | 69 | - | 0.02 | -0.72 | 0.02 | 6.04 | 101 | 20.69 | 100 | 93 | 51 | 1 | 0 | 1 | 0 |
| NJ | NEWARK | 82 | 70 | 97 | 66 | 76 | - | 0.01 | -1.07 | 0.01 | 6.99 | 94 | 20.40 | 76 | 79 | 57 | 2 | 0 | 1 | 0 |
| NM | ALBUQUERQUE | 89 | 67 | 94 | 63 | 78 | 0 | 0.17 | -0.16 | 0.17 | 1.08 | 65 | 1.90 | 44 | 66 | 29 | 5 | 0 | 1 | 0 |
| NY | ALBANY | 82 | 61 | 92 | 56 | 72 | 0 | 0.33 | -0.42 | 0.31 | 6.21 | 93 | 20.45 | 95 | 84 | 52 | 1 | 0 | 3 | 0 |
| | BINGHAMTON | 78 | 59 | 88 | 54 | 68 | - | 0.19 | -0.53 | 0.12 | 8.44 | 124 | 25.55 | 117 | 86 | 65 | 0 | 0 | 3 | 0 |
| | BUFFALO | 81 | 63 | 91 | 55 | 72 | 1 | 1.80 | 1.14 | 1.06 | 3.53 | 54 | 23.06 | 107 | 96 | 58 | 1 | 0 | 4 | 2 |
| | ROCHESTER | 83 | 62 | 95 | 53 | 72 | 1 | 0.92 | 0.31 | 0.68 | 5.40 | 92 | 21.35 | 116 | 88 | 62 | 2 | 0 | 3 | 1 |
| | SYRACUSE | 84 | 61 | 98 | 53 | 73 | 2 | 0.52 | -0.31 | 0.26 | 6.59 | 91 | 23.04 | 106 | 89 | 53 | 2 | 0 | 3 | 0 |
| NC | ASHEVILLE | 86 | 65 | 88 | 63 | 75 | 2 | 0.74 | -0.11 | 0.51 | 7.27 | 95 | 21.76 | 77 | 96 | 70 | 0 | 0 | 3 | 1 |
| | CHARLOTTE | 91 | 70 | 94 | 68 | 81 | 1 | 0.18 | -0.67 | 0.15 | 2.46 | 37 | 17.77 | 71 | 96 | 54 | 6 | 0 | 3 | 0 |
| | GREENSBORO | 88 | 70 | 94 | 70 | 79 | 1 | 0.86 | -0.12 | 0.48 | 6.85 | 93 | 17.43 | 69 | 94 | 60 | 3 | 0 | 5 | 0 |
| | HATTERAS | 83 | 76 | 86 | 74 | 80 | 0 | 0.73 | -0.51 | 0.59 | 9.09 | 114 | 28.67 | 96 | 93 | 79 | 0 | 0 | 5 | 1 |
| | RALEIGH | 88 | 71 | 92 | 67 | 80 | 1 | 1.90 | 0.93 | 1.31 | 7.10 | 100 | 20.83 | 83 | 96 | 68 | 2 | 0 | 5 | 1 |
| | WILMINGTON | 88 | 74 | 93 | 73 | 81 | 0 | 3.14 | 1.39 | 0.97 | 10.25 | 86 | 21.48 | 68 | 97 | 63 | 2 | 0 | 5 | 3 |
| ND | BISMARCK | 85 | 59 | 94 | 52 | 72 | 1 | 0.66 | 0.11 | 0.35 | 3.86 | 80 | 6.81 | 66 | 86 | 57 | 3 | 0 | 2 | 0 |
| | DICKINSON | 85 | 56 | 94 | 51 | 71 | 0 | 0.66 | 0.31 | 0.46 | 4.90 | 94 | 7.87 | 73 | 88 | 33 | 3 | 0 | 4 | 0 |
| | FARGO | 79 | 59 | 89 | 47 | 69 | - | 1.26 | 0.67 | 0.60 | 10.40 | 173 | 16.00 | 128 | 96 | 60 | 0 | 0 | 6 | 1 |
| | GRAND FORKS | 79 | 58 | 88 | 48 | 69 | - | 0.00 | -0.66 | 0.00 | 10.14 | 179 | 13.02 | 116 | 95 | 53 | 0 | 0 | 0 | 0 |
| | JAMESTOWN | 79 | 57 | 91 | 47 | 68 | - | 1.65 | 0.97 | 1.32 | 6.29 | 108 | 8.62 | 75 | 96 | 56 | 1 | 0 | 6 | 1 |
| | WILLISTON | 85 | 58 | 94 | 51 | 72 | 1 | 0.35 | -0.11 | 0.20 | 6.41 | 148 | 10.32 | 115 | 85 | 53 | 2 | 0 | 4 | 0 |
| OH | AKRON-CANTON | 85 | 64 | 92 | 56 | 75 | 3 | 0.73 | -0.16 | 0.46 | 4.25 | 61 | 23.49 | 105 | 86 | 59 | 2 | 0 | 4 | 0 |
| | CINCINNATI | 88 | 69 | 93 | 64 | 79 | 2 | 0.05 | -0.78 | 0.04 | 4.42 | 58 | 27.18 | 105 | 89 | 60 | 3 | 0 | 2 | 0 |
| | CLEVELAND | 84 | 66 | 93 | 57 | 75 | 3 | 1.23 | 0.51 | 1.07 | 2.59 | 37 | 20.80 | 97 | 86 | 58 | 2 | 0 | 4 | 1 |
| | COLUMBUS | 88 | 68 | 96 | 63 | 78 | 3 | 3.69 | 2.68 | 3.06 | 7.57 | 94 | 25.30 | 111 | 85 | 64 | 2 | 0 | 2 | 2 |
| | DAYTON | 88 | 67 | 94 | 60 | 78 | 4 | 1.00 | 0.20 | 0.80 | 4.36 | 59 | 23.00 | 97 | 88 | 50 | 3 | 0 | 3 | |

Weather Data for the Week Ending July 27, 2002

| 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 Mar 1 | PCT. NORMAL SINCE Mar 1 | TOTAL IN, SINCE Jan 1 | PCT. NORMAL SINCE Jan 1 | AVERAGE MAXIMUM | AVERAGE MINIMUM | TEMP. °F | | PRECIP | |
| | | | | | | | | | | | | | | | | 90 AND ABOVE | 32 AND BELOW | .01 INCH OR MORE | .50 INCH OR MORE |
| OK TOLEDO | 87 | 63 | 95 | 56 | 75 | 2 | 1.08 | 0.53 | 0.52 | 3.11 | 50 | 17.99 | 95 | 88 | 63 | 2 | 0 | 4 | 1 |
| OK YOUNGSTOWN | 84 | 63 | 92 | 55 | 74 | 4 | 2.13 | 1.29 | 2.09 | 7.75 | 103 | 25.62 | 118 | 89 | 64 | 2 | 0 | 2 | 1 |
| OK OKLAHOMA CITY | 96 | 70 | 99 | 67 | 83 | 0 | 0.08 | -0.49 | 0.08 | 7.98 | 111 | 20.89 | 98 | 94 | 50 | 7 | 0 | 1 | 0 |
| OR TULSA | 97 | 75 | 101 | 72 | 86 | 2 | 0.00 | -0.57 | 0.00 | 4.04 | 55 | 18.92 | 77 | 81 | 53 | 7 | 0 | 0 | 0 |
| OR ASTORIA | 68 | 57 | 76 | 53 | 62 | 1 | 0.04 | -0.11 | 0.03 | 2.57 | 72 | 35.70 | 97 | 94 | 79 | 0 | 0 | 2 | 0 |
| OR BURNS | 89 | 49 | 94 | 42 | 69 | 2 | 0.00 | -0.08 | 0.00 | 0.41 | 42 | 3.47 | 54 | 63 | 36 | 4 | 0 | 0 | 0 |
| OR EUGENE | 86 | 53 | 91 | 45 | 70 | 3 | 0.00 | -0.09 | 0.00 | 0.68 | 33 | 19.29 | 68 | 86 | 58 | 3 | 0 | 0 | 0 |
| OR MEDFORD | 95 | 62 | 100 | 59 | 78 | 4 | 0.00 | -0.06 | 0.00 | 0.11 | 12 | 6.70 | 68 | 65 | 27 | 7 | 0 | 0 | 0 |
| OR PENDLETON | 94 | 63 | 100 | 54 | 79 | 5 | 0.00 | -0.08 | 0.00 | 1.32 | 119 | 6.06 | 82 | 49 | 31 | 5 | 0 | 0 | 0 |
| OR PORTLAND | 85 | 61 | 97 | 57 | 73 | 4 | 0.00 | -0.11 | 0.00 | 1.76 | 80 | 19.13 | 95 | 79 | 62 | 2 | 0 | 0 | 0 |
| OR SALEM | 86 | 56 | 94 | 48 | 71 | 3 | 0.00 | -0.06 | 0.00 | 1.33 | 69 | 21.57 | 98 | 84 | 59 | 2 | 0 | 0 | 0 |
| PA ALLENTOWN | 85 | 65 | 97 | 59 | 75 | 1 | 0.61 | -0.35 | 0.60 | 5.77 | 75 | 19.73 | 78 | 85 | 61 | 2 | 0 | 2 | 1 |
| PA ERIE | 83 | 65 | 93 | 59 | 74 | 1 | 0.05 | -0.61 | 0.05 | 2.99 | 42 | 24.97 | 115 | 89 | 67 | 2 | 0 | 1 | 0 |
| PA MIDDLETOWN | 85 | 68 | 96 | 64 | 77 | 1 | 0.62 | -0.14 | 0.47 | 3.27 | 47 | 19.31 | 82 | 91 | 55 | 2 | 0 | 3 | 0 |
| PA PHILADELPHIA | 84 | 69 | 96 | 64 | 76 | -2 | 0.30 | -0.70 | 0.23 | 5.84 | 82 | 18.59 | 76 | 87 | 61 | 2 | 0 | 3 | 0 |
| PA PITTSBURGH | 87 | 66 | 93 | 62 | 77 | 4 | 0.90 | 0.07 | 0.77 | 3.79 | 50 | 18.14 | 80 | 97 | 59 | 2 | 0 | 3 | 1 |
| PA WILKES-BARRE | 82 | 63 | 92 | 60 | 73 | 0 | 0.55 | -0.19 | 0.52 | 5.92 | 82 | 19.31 | 90 | 86 | 54 | 2 | 0 | 3 | 1 |
| PA WILLIAMSPORT | 83 | 64 | 94 | 61 | 74 | 1 | 1.00 | 0.19 | 0.57 | 5.80 | 72 | 22.28 | 93 | 85 | 61 | 2 | 0 | 3 | 1 |
| RI PROVIDENCE | 81 | 61 | 94 | 55 | 71 | -3 | 0.25 | -0.46 | 0.23 | 3.75 | 62 | 21.17 | 81 | 87 | 56 | 1 | 0 | 2 | 0 |
| SC BEAUFORT | 90 | 75 | 93 | 74 | 82 | 0 | 0.68 | -0.61 | 0.37 | 11.26 | 106 | 20.40 | 74 | 95 | 63 | 4 | 0 | 4 | 0 |
| SC CHARLESTON | 89 | 74 | 94 | 73 | 82 | 0 | 1.13 | -0.22 | 0.79 | 11.36 | 101 | 24.71 | 86 | 95 | 64 | 4 | 0 | 4 | 1 |
| SC COLUMBIA | 93 | 72 | 98 | 71 | 83 | 1 | 0.00 | -1.24 | 0.00 | 0.63 | 6 | 19.60 | 68 | 88 | 55 | 6 | 0 | 0 | 0 |
| SC GREENVILLE | 90 | 71 | 93 | 69 | 81 | 2 | 1.39 | 0.32 | 1.22 | 4.92 | 62 | 20.87 | 70 | 93 | 52 | 4 | 0 | 2 | 1 |
| SD ABERDEEN | 82 | 58 | 88 | 50 | 70 | -3 | 2.01 | 1.41 | 1.20 | 4.46 | 74 | 8.30 | 65 | 93 | 68 | 0 | 0 | 7 | 1 |
| SD HURON | 88 | 62 | 96 | 54 | 75 | 1 | 0.34 | -0.24 | 0.19 | 1.81 | 31 | 7.45 | 54 | 91 | 42 | 4 | 0 | 4 | 0 |
| SD RAPID CITY | 90 | 61 | 96 | 58 | 76 | 3 | 0.26 | -0.15 | 0.18 | 1.50 | 33 | 6.35 | 56 | 77 | 32 | 5 | 0 | 3 | 0 |
| SD SIOUX FALLS | 86 | 62 | 92 | 49 | 74 | 0 | 0.69 | 0.06 | 0.66 | 4.37 | 73 | 10.33 | 69 | 89 | 60 | 2 | 0 | 3 | 1 |
| TN BRISTOL | 87 | 67 | 91 | 65 | 77 | 3 | 0.74 | -0.16 | 0.64 | 6.55 | 86 | 21.01 | 81 | 10 | 56 | 2 | 0 | 2 | 1 |
| TN CHATTANOOGA | 92 | 71 | 94 | 69 | 82 | 2 | 0.15 | -0.86 | 0.13 | 4.31 | 53 | 24.95 | 75 | 91 | 62 | 5 | 0 | 2 | 0 |
| TN KNOXVILLE | 88 | 71 | 90 | 69 | 80 | 2 | 0.81 | -0.20 | 0.68 | 8.18 | 100 | 34.64 | 113 | 94 | 60 | 3 | 0 | 2 | 1 |
| TN MEMPHIS | 90 | 75 | 93 | 73 | 83 | 0 | 1.06 | 0.21 | 0.74 | 5.45 | 68 | 30.66 | 93 | 91 | 64 | 5 | 0 | 3 | 1 |
| TX NASHVILLE | 90 | 72 | 91 | 70 | 81 | 1 | 0.27 | -0.54 | 0.27 | 5.95 | 81 | 30.56 | 106 | 95 | 62 | 4 | 0 | 1 | 0 |
| TX ABILENE | 94 | 73 | 96 | 71 | 84 | 0 | 0.00 | -0.35 | 0.00 | 8.67 | 194 | 18.01 | 144 | 84 | 55 | 7 | 0 | 0 | 0 |
| TX AMARILLO | 96 | 68 | 99 | 62 | 82 | 4 | 1.27 | 0.68 | 1.26 | 3.20 | 58 | 8.29 | 71 | 71 | 29 | 7 | 0 | 2 | 1 |
| TX AUSTIN | 94 | 72 | 95 | 70 | 83 | -2 | 0.00 | -0.41 | 0.00 | 11.37 | 208 | 16.97 | 89 | 90 | 62 | 7 | 0 | 0 | 0 |
| TX BEAUMONT | 92 | 75 | 95 | 74 | 84 | 1 | 0.27 | -0.76 | 0.18 | 9.40 | 84 | 21.35 | 63 | 10 | 61 | 5 | 0 | 3 | 0 |
| TX BROWNSVILLE | 96 | 76 | 96 | 74 | 86 | 2 | 0.00 | -0.30 | 0.00 | 2.73 | 61 | 6.63 | 54 | 92 | 61 | 7 | 0 | 0 | 0 |
| TX CORPUS CHRISTI | 95 | 74 | 97 | 70 | 84 | 0 | 0.00 | -0.40 | 0.00 | 5.23 | 100 | 9.14 | 57 | 97 | 60 | 7 | 0 | 0 | 0 |
| TX DEL RIO | 98 | 76 | 101 | 75 | 87 | 1 | 0.00 | -0.40 | 0.00 | 3.46 | 85 | 6.86 | 65 | 82 | 48 | 7 | 0 | 0 | 0 |
| TX EL PASO | 94 | 72 | 99 | 68 | 83 | 0 | 0.06 | -0.29 | 0.06 | 1.69 | 81 | 2.91 | 77 | 74 | 34 | 6 | 0 | 1 | 0 |
| TX FORT WORTH | 96 | 76 | 100 | 74 | 86 | 1 | 0.00 | -0.49 | 0.00 | 5.28 | 106 | 29.60 | 143 | 81 | 42 | 7 | 0 | 0 | 0 |
| TX GALVESTON | 89 | 80 | 91 | 79 | 85 | 0 | 0.10 | -0.60 | 0.10 | 9.04 | 129 | 19.80 | 87 | 90 | 67 | 2 | 0 | 1 | 0 |
| TX HOUSTON | 96 | 77 | 97 | 76 | 87 | 3 | 0.03 | -0.58 | 0.03 | 11.68 | 144 | 21.75 | 81 | 93 | 58 | 7 | 0 | 1 | 0 |
| TX LUBBOCK | 97 | 70 | 102 | 66 | 84 | 4 | 0.19 | -0.22 | 0.19 | 4.47 | 93 | 9.38 | 90 | 69 | 43 | 7 | 0 | 1 | 0 |
| TX MIDLAND | 98 | 73 | 102 | 71 | 86 | 4 | 0.00 | -0.41 | 0.00 | 1.59 | 48 | 4.01 | 55 | 73 | 40 | 7 | 0 | 0 | 0 |
| TX SAN ANGELO | 98 | 73 | 101 | 72 | 86 | 3 | 0.00 | -0.21 | 0.00 | 2.90 | 85 | 6.40 | 58 | 80 | 43 | 7 | 0 | 0 | 0 |
| TX SAN ANTONIO | 92 | 76 | 94 | 74 | 84 | -1 | 0.00 | -0.39 | 0.00 | 18.42 | 305 | 26.48 | 142 | 92 | 53 | 7 | 0 | 0 | 0 |
| TX VICTORIA | 93 | 75 | 95 | 72 | 84 | -1 | 0.00 | -0.44 | 0.00 | 10.48 | 141 | 17.72 | 80 | 98 | 68 | 6 | 0 | 0 | 0 |
| TX WACO | 98 | 76 | 100 | 74 | 87 | 1 | 0.00 | -0.46 | 0.00 | 5.20 | 104 | 14.97 | 78 | 87 | 56 | 7 | 0 | 0 | 0 |
| TX WICHITA FALLS | 100 | 73 | 102 | 71 | 86 | 1 | 0.00 | -0.28 | 0.00 | 6.50 | 129 | 17.74 | 107 | 82 | 48 | 7 | 0 | 0 | 0 |
| UT SALT LAKE CITY | 94 | 67 | 100 | 62 | 81 | 3 | 0.05 | -0.12 | 0.04 | 0.34 | 25 | 7.26 | 72 | 51 | 20 | 6 | 0 | 2 | 0 |
| VT BURLINGTON | 80 | 57 | 90 | 49 | 68 | -3 | 0.73 | -0.15 | 0.35 | 9.75 | 143 | 21.55 | 112 | 97 | 52 | 1 | 0 | 4 | 0 |
| VA LYNCHBURG | 85 | 68 | 93 | 66 | 77 | 2 | 3.08 | 2.13 | 1.56 | 5.38 | 71 | 18.64 | 73 | 97 | 67 | 3 | 0 | 5 | 2 |
| VA NORFOLK | 85 | 74 | 92 | 72 | 79 | 0 | 1.97 | 0.76 | 1.61 | 7.88 | 96 | 24.29 | 91 | 97 | 69 | 2 | 0 | 4 | 1 |
| VA RICHMOND | 86 | 70 | 95 | 68 | 78 | 0 | 0.62 | -0.47 | 0.28 | 3.20 | 42 | 17.90 | 71 | 97 | 67 | 3 | 0 | 3 | 0 |
| VA ROANOKE | 86 | 69 | 93 | 66 | 77 | 0 | 1.25 | 0.36 | 0.66 | 4.46 | 62 | 15.60 | 62 | 95 | 68 | 3 | 0 | 5 | 1 |
| WA WASH/DULLES | 84 | 69 | 94 | 64 | 77 | 1 | 0.99 | 0.22 | 0.41 | 6.22 | 87 | 19.60 | 82 | 96 | 72 | 2 | 0 | 4 | 0 |
| WA OLYMPIA | 80 | 54 | 92 | 47 | 67 | 3 | 0.00 | -0.11 | 0.00 | 1.98 | 80 | 29.09 | 106 | 92 | 70 | 1 | 0 | 0 | 0 |
| WA QUILLAYUTE | 71 | 53 | 86 | 46 | 62 | 3 | 0.08 | -0.42 | 0.06 | 5.11 | 93 | 55.96 | 101 | 96 | 77 | 0 | 0 | 2 | 0 |
| WA SEATTLE-TACOM | 77 | 58 | 88 | 54 | 68 | 2 | 0.04 | -0.08 | 0.03 | 2.35 | 109 | 21.24 | 109 | 89 | 67 | 0 | 0 | 2 | 0 |
| WA SPOKANE | 90 | 62 | 95 | 56 | 76 | 6 | 0.05 | -0.09 | 0.05 | 1.78 | 99 | 6.97 | 73 | 58 | 27 | 3 | 0 | 1 | 0 |
| WA YAKIMA | 94 | 59 | 99 | 54 | 77 | 7 | 0.01 | -0.02 | 0.01 | 0.83 | 106 | 3.69 | 82 | 60 | 35 | 5 | 0 | 1 | 0 |
| WV BECKLEY | 81 | 65 | 85 | 61 | 73 | 2 | 2.13 | 1.07 | 0.89 | 7.28 | 90 | 24.76 | 96 | 92 | 74 | 0 | 0 | 6 | 2 |
| WV CHARLESTON | 87 | 69 | 94 | 68 | 78 | 4 | 2.29 | 1.20 | 0.73 | 7.08 | 86 | 26.38 | 101 | 10 | 64 | 3 | 0 | 5 | 3 |
| WV ELKINS | 83 | 63 | 89 | 60 | 73 | 3 | 1.90 | 0.84 | 1.10 | 10.65 | 121 | 32.81 | 119 | 10 | 63 | 0 | 0 | 6 | 2 |
| WV HUNTINGTON | 86 | 70 | 91 | 68 | 78 | 2 | 0.99 | -0.03 | 0.45 | 6.39 | 83 | 28.58 | 112 | 99 | 69 | 2 | 0 | 5 | 0 |
| WI EAU CLAIRE | 84 | 64 | 98 | 52 | 74 | 2 | 0.54 | -0.33 | 0.25 | 8.10 | 106 | 19.96 | 111 | 95 | 49 | 2 | 0 | 5 | 0 |
| WI GREEN BAY | 83 | 62 | 96 | 52 | 73 | 3 | 0.80 | 0.06 | 0.65 | 6.14 | 96 | 16.14 | 101 | 94 | 57 | 1 | 0 | 3 | 1 |
| WI LA CROSSE | 85 | 66 | 99 | 61 | 76 | 2 | 1.42 | 0.50 | 1.33 | 9.06 | 118 | 18.81 | 101 | 94 | 50 | 2 | 0 | 3 | 1 |
| WI MADISON | 84 | 62 | 98 | 52 | 73 | 1 | 1.38 | 0.53 | 0.79 | 5.51 | 74 | 16.38 | 87 | 93 | 67 | 1 | 0 | 4 | 1 |
| WI MILWAUKEE | 82 | 69 | 98 | 63 | 75 | 2 | 1.20 | 0.43 | 1.20 | 5.39 | 81 | 15.95 | 82 | 84 | 69 | 1 | 0 | 1 | 1 |
| WY CASPER | 87 | 54 | 96 | 51 | 70 | -1 | 1.11 | -0.16 | 0.05 | 1.56 | 62 | 4.34 | 51 | 82 | 44 | 3 | 0 | 3 | 0 |
| WY CHEYENNE | 85 | 57 | 94 | 51 | 71 | 3 | 0.26 | -0.24 | 0.25 | 1.04 | 26 | 4.14 | 41 | 72 | 30 | 1 | 0 | 2 | 0 |
| WY LANDER | 85 | 56 | 95 | 52 | 71 | -1 | 0.53 | 0.36 | 0.28 | 1.60 | 86 | 5.64 | 66 | 85 | 47 | 1 | 0 | 5 | 0 |
| WY SHERIDAN | 85 | 57 | 93 | 56 | 71 | 1 | 0.21 | 0.03 | 0.12 | 2.65 | 89 | 6.48 | 68 | 56 | 40 | 1 | 0 | 4 | 0 |

Based on 1961-90 normals

*** Not Available

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

National Agricultural Summary

July 22 - 28, 2002

Weekly National Agricultural Summary provided by USDA/NASS

HIGHLIGHTS

Crop conditions stabilized in the Corn Belt, as much-needed soaking rains improved conditions in many areas. However, precipitation was inadequate to support crop development over a substantial portion of the Corn Belt and Great Plains, sending crop conditions lower in those areas. Many crops in the Southeast and coastal areas of the lower

Mississippi Valley also benefited from heavy rainfall. In the northern Great Plains and Pacific Northwest, warm weather ripened small grains and dry conditions supported harvest of mature crops. Harvest of mature summer crops continued without interruption in Texas, while rain delayed progress in coastal areas of the Mississippi Delta.

Corn: Seventy-seven percent of the crop was at or beyond the silking stage, and 15 percent was at or beyond the dough stage. Silking progress slightly exceeded last year's 76-percent pace, but trailed the 78-percent average. Acreage at or beyond the dough stage was 4 percentage points behind last year and 1 percentage point behind the 5-year average. Nationally, crop conditions were nearly unchanged from the previous week. However, beneficial soaking rains were unevenly distributed across the Corn Belt. Most of the heavy rainfall was centered over the middle and upper Mississippi River Valley. Areas along the middle Missouri River Valley and parts of the Great Lakes Region also received substantial precipitation. In most other areas, rainfall was light and crops continued to deteriorate. Fields rapidly advanced to the silking stage in the central and eastern Corn Belt, but progress remained well behind normal in Indiana, Ohio, and Wisconsin.

Soybeans: Seventy-six percent was blooming, and 34 percent was setting pods. Acreage at the bloom stage matched last year's pace, but trailed the 77-percent average for this date. Acreage setting pods was slightly less than last year's 35 percent, but equaled the 5-year average for this date. Most fields in the Corn Belt benefited from much-needed precipitation, but amounts varied considerably. Consequently, conditions improved in some areas and deteriorated in others. In most areas of the central and eastern Corn Belt, more than one-fifth of the acreage entered the bloom stage during the week. Meanwhile, across much of the western Corn Belt and northern Great Plains, more than one-fourth of the crop began setting pods.

Cotton: Ninety-four percent of the acreage was at or beyond the squaring stage, 1 percentage point less than last year and the 5-year average. Acreage setting bolls reached 73 percent, compared with 78 percent on this date last year and the average of 74 percent. Widespread showers boosted soil moisture reserves and aided vegetative development across much of the Southeast, although parts of the southern Atlantic Coastal Plain remained abnormally dry. Persistent cloud cover limited biological progress across most of the Southeast, although one-fifth of the acreage began setting bolls in Alabama and North Carolina. In Texas, irrigated fields responded favorably to above-normal temperatures, while dryland fields wilted under the afternoon heat. Along the Gulf Coast, defolianters were applied to mature fields, and a few fields were picked.

Winter Wheat: Harvest advanced to 88 percent complete, 1 percentage point more than last year and the average for this date. At the end of the week, harvest was virtually complete everywhere except the northern High Plains and Pacific Northwest. Harvest quickly neared completion in Michigan and South Dakota, and was

very active in Oregon. In Idaho and Montana, harvest gained momentum but progress lagged behind normal, especially in Montana.

Small grains: Ninety-six percent of the barley and 97 percent of the spring wheat was at or beyond the heading stage. Last year, 98 percent of the barley and spring wheat acreage was heading by this date. On average, barley and spring wheat would be 97 percent headed by this date. Above-normal temperatures promoted rapid biological development across most of the northern Great Plains, but heading progress remained behind normal in Montana. Conditions deteriorated in many areas due to increasing moisture shortages. The spring wheat harvest rapidly accelerated in South Dakota and was far ahead of normal by the end of the week.

The oat harvest, at 36 percent complete, exceeded last year's 21-percent and the average of 27 percent. Harvest was active across most of the Corn Belt, especially in Iowa, where harvest rapidly progressed before mid-week thunderstorms stalled progress in some areas. Harvest progress was far ahead of normal in Iowa and South Dakota, but remained behind normal in Ohio. Harvest neared completion in Nebraska, gained momentum in Minnesota, and began in North Dakota.

Rice: Forty-eight percent of the crop was heading, less than last year's 55-percent pace but more than the 41-percent average for this date. Most fields along the Gulf Coast were at or beyond the heading stage and many fields were ripe. Harvest advanced to 14 and 6 percent in Louisiana and Texas, respectively.

Sorghum: Forty-nine percent was at or beyond the heading stage, and 22 percent was turning color. Heading progress trailed last year's 53-percent pace, but exceeded the average. Acreage turning color was 2 percentage points less than this date last year, but equal to the 5-year average. Above-normal temperatures stimulated rapid biological development in the Great Plains and Corn Belt, but also stunted vegetative growth and limited reproductive functions. Conditions deteriorated most in Kansas, where nearly one-fourth of the acreage entered the heading stage. Fields in the lower Mississippi Valley and along the western Gulf Coast quickly approached maturity. In Texas, 39 percent was mature and 30 percent was harvested.

Peanuts: Eighty-nine percent of the acreage was pegging, compared with 86 percent on this date last year and the average of 85 percent. Rain softened hard soils and aided pegging in the Southeast, especially in Alabama, where pegging was most active. Pegging also progressed well in Georgia, Texas, and Virginia.

Crop Progress and Condition

Week Ending July 28, 2002

Weekly U.S. Crop Progress and Condition Tables provided by USDA/NASS

| Soybeans Percent Blooming | | | | |
|---|----------------|--------------|--------------|-------------|
| | Jul 28 2002 | Prev Week | Prev Year | 5-Yr Avg |
| AR | 65 | 48 | 79 | 57 |
| IL | 75 | 54 | 89 | 83 |
| IN | 58 | 37 | 92 | 82 |
| IA | 93 | 86 | 74 | 88 |
| KS | 68 | 50 | 83 | 75 |
| KY | 43 | *33 | 69 | 52 |
| LA | 75 | 68 | 90 | 90 |
| MI | 72 | 48 | 69 | 67 |
| MN | 91 | 73 | 74 | 85 |
| MS | 93 | 84 | 97 | 88 |
| MO | 53 | 40 | 53 | 63 |
| NE | 88 | 72 | 76 | 80 |
| NC | 31 | 19 | 34 | 33 |
| ND | 97 | 75 | 92 | 85 |
| OH | 65 | 43 | 84 | 83 |
| SD | 84 | 67 | 70 | 72 |
| TN | 64 | 51 | 63 | 49 |
| WI | 72 | 42 | 40 | 61 |
| 18 Sts | 76 | 59 | 76 | 77 |
| These 18 States planted 95% of last year's soybean acreage. | | | | |

| Corn Percent Silking | | | | |
|--|----------------|--------------|--------------|-------------|
| | Jul 28 2002 | Prev Week | Prev Year | 5-Yr Avg |
| CO | 47 | 22 | 56 | 53 |
| IL | 86 | 59 | 94 | 88 |
| IN | 66 | 28 | 97 | 81 |
| IA | 86 | 62 | 67 | 80 |
| KS | 88 | 67 | 96 | 93 |
| KY | 85 | 70 | 92 | 85 |
| MI | 54 | 9 | 59 | 55 |
| MN | 92 | 61 | 64 | 82 |
| MO | 88 | 81 | 92 | 90 |
| NE | 79 | 63 | 81 | 82 |
| NC | 96 | 92 | 97 | 92 |
| ND | 75 | 41 | 65 | 70 |
| OH | 49 | 20 | 75 | 68 |
| PA | 54 | 28 | 75 | 60 |
| SD | 53 | 15 | 42 | 47 |
| TN | 100 | 98 | 100 | 93 |
| TX | 97 | 93 | 93 | 92 |
| WI | 43 | 11 | 39 | 56 |
| 18 Sts | 77 | 51 | 76 | 78 |
| These 18 States planted 93% of last year's corn acreage. | | | | |

| Winter Wheat Percent Harvested | | | | |
|--|----------------|--------------|--------------|-------------|
| | Jul 28 2002 | Prev Week | Prev Year | 5-Yr Avg |
| AR | 100 | 100 | 100 | 100 |
| CA | 96 | 94 | 99 | 98 |
| CO | 100 | 98 | 92 | 95 |
| ID | 6 | 2 | 21 | 11 |
| IL | 100 | 99 | 100 | 99 |
| IN | 100 | 99 | 100 | 98 |
| KS | 100 | 100 | 100 | 100 |
| MI | 92 | 75 | 94 | 90 |
| MO | 100 | 100 | 100 | 100 |
| MT | 6 | 1 | 37 | 26 |
| NE | 99 | 93 | 91 | 93 |
| NC | 100 | 100 | 100 | 100 |
| OH | 100 | 99 | 100 | 97 |
| OK | 100 | 100 | 100 | 100 |
| OR | 51 | 31 | 42 | 31 |
| SD | 96 | 73 | 29 | 58 |
| TX | 100 | 100 | 100 | 100 |
| WA | 16 | 8 | 17 | 17 |
| 18 Sts | 88 | 86 | 87 | 87 |
| These 18 States harvested 90% of last year's winter wheat acreage. | | | | |

| Soybeans Percent Setting Pods | | | | |
|---|----------------|--------------|--------------|-------------|
| | Jul 28 2002 | Prev Week | Prev Year | 5-Yr Avg |
| AR | 39 | 23 | 47 | 24 |
| IL | 25 | 11 | 51 | 38 |
| IN | 16 | 9 | 47 | 35 |
| IA | 55 | 27 | 30 | 48 |
| KS | 30 | 14 | 40 | 33 |
| KY | 20 | 10 | 40 | 28 |
| LA | 56 | 48 | 78 | 68 |
| MI | 25 | 5 | 39 | 29 |
| MN | 38 | 13 | 12 | 26 |
| MS | 72 | 60 | 86 | 71 |
| MO | 21 | 11 | 26 | 25 |
| NE | 40 | 16 | 23 | 25 |
| NC | 8 | 3 | 15 | 13 |
| ND | 61 | 23 | 65 | 46 |
| OH | 13 | 5 | 35 | 32 |
| SD | 39 | 18 | 22 | 31 |
| TN | 41 | 24 | 38 | 25 |
| WI | 18 | 0 | 9 | 24 |
| 18 Sts | 34 | 16 | 35 | 34 |
| These 18 States planted 95% of last year's soybean acreage. | | | | |

| Corn Percent Dough | | | | |
|--|----------------|--------------|--------------|-------------|
| | Jul 28 2002 | Prev Week | Prev Year | 5-Yr Avg |
| CO | 3 | 1 | 4 | 4 |
| IL | 20 | 9 | 36 | 27 |
| IN | 7 | 2 | 24 | 19 |
| IA | 7 | 1 | 2 | 4 |
| KS | 32 | 13 | 39 | 35 |
| KY | 36 | 15 | 44 | 31 |
| MI | 0 | 0 | 0 | 0 |
| MN | 0 | 0 | 0 | 1 |
| MO | 46 | 30 | 53 | 45 |
| NE | 23 | 8 | 15 | 10 |
| NC | 72 | 62 | 73 | 67 |
| ND | 14 | 2 | 18 | 15 |
| OH | 1 | 0 | 14 | 11 |
| PA | 11 | 3 | 26 | 15 |
| SD | 4 | 0 | 4 | 7 |
| TN | 75 | 48 | 68 | 56 |
| TX | 74 | 67 | 71 | 70 |
| WI | 0 | 0 | 0 | 6 |
| 18 Sts | 15 | 7 | 19 | 16 |
| These 18 States planted 93% of last year's corn acreage. | | | | |

| Peanuts Percent Pegging | | | | |
|---|----------------|--------------|--------------|-------------|
| | Jul 28 2002 | Prev Week | Prev Year | 5-Yr Avg |
| AL | 87 | 70 | 80 | 78 |
| FL | 90 | 87 | 84 | 87 |
| GA | 95 | 87 | 91 | 93 |
| NC | 97 | 95 | 92 | 88 |
| OK | 90 | 88 | 83 | 89 |
| TX | 82 | 73 | 83 | 78 |
| VA | 76 | 65 | 90 | 83 |
| 7 Sts | 89 | 80 | 86 | 85 |
| These 7 States planted 98% of last year's peanut acreage. | | | | |

Crop Progress and Condition

Week Ending July 28, 2002

Weekly U.S. Crop Progress and Condition Tables provided by USDA/NASS

| Cotton Percent Squaring | | | | |
|-------------------------|----------------|--------------|--------------|-------------|
| | Jul 28 2002 | Prev Week | Prev Year | 5-Yr Avg |
| AL | 98 | 95 | 98 | 95 |
| AZ | 100 | 100 | 100 | 100 |
| AR | 100 | 100 | 100 | 100 |
| CA | 90 | 87 | 94 | 89 |
| GA | 99 | 97 | 96 | 97 |
| LA | 100 | 99 | 100 | 100 |
| MS | 100 | 98 | 100 | 99 |
| MO | 95 | 89 | 100 | 100 |
| NC | 99 | 96 | 89 | 90 |
| OK | 90 | *84 | 85 | 86 |
| SC | 96 | 92 | 85 | 95 |
| TN | 100 | 99 | 100 | 100 |
| TX | 88 | 82 | 93 | 94 |
| VA | 100 | 100 | 100 | 98 |
| 14 Sts | 94 | 91 | 95 | 95 |

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

| Cotton Percent Setting Bolls | | | | |
|------------------------------|----------------|--------------|--------------|-------------|
| | Jul 28 2002 | Prev Week | Prev Year | 5-Yr Avg |
| AL | 77 | 56 | 78 | 73 |
| AZ | 95 | 83 | 93 | 91 |
| AR | 88 | 79 | 99 | 93 |
| CA | 55 | 35 | 66 | 54 |
| GA | 89 | 78 | 76 | 81 |
| LA | 97 | 87 | 97 | 96 |
| MS | 95 | 85 | 95 | 95 |
| MO | 66 | 52 | 89 | 91 |
| NC | 80 | 60 | 65 | 66 |
| OK | 45 | *36 | 45 | 43 |
| SC | 54 | 38 | 44 | 54 |
| TN | 74 | 57 | 86 | 84 |
| TX | 60 | 44 | 73 | 64 |
| VA | 84 | 69 | 70 | 64 |
| 14 Sts | 73 | 59 | 78 | 74 |

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

| Sorghum Percent Headed | | | | |
|------------------------|----------------|--------------|--------------|-------------|
| | Jul 28 2002 | Prev Week | Prev Year | 5-Yr Avg |
| AR | 85 | 77 | 91 | 79 |
| CO | 13 | 5 | 21 | 12 |
| IL | 25 | 12 | 68 | 42 |
| KS | 37 | 13 | 44 | 36 |
| LA | 93 | 89 | 97 | 91 |
| MO | 42 | 24 | 52 | 53 |
| NE | 31 | 11 | 23 | 24 |
| NM | 20 | 2 | 18 | 10 |
| OK | 50 | 33 | 43 | 26 |
| SD | 30 | 14 | 28 | 25 |
| TX | 69 | 65 | 71 | 69 |
| 11 Sts | 49 | 35 | 53 | 47 |

These 11 States planted 97% of last year's sorghum acreage.

| Sorghum Percent Coloring | | | | |
|--------------------------|----------------|--------------|--------------|-------------|
| | Jul 28 2002 | Prev Week | Prev Year | 5-Yr Avg |
| AR | 44 | 36 | 59 | 29 |
| CO | 0 | 0 | 0 | 0 |
| IL | 9 | 1 | 12 | 4 |
| KS | 3 | 1 | 9 | 3 |
| LA | 57 | 47 | 70 | 48 |
| MO | 3 | 2 | 13 | 6 |
| NE | 0 | 0 | 0 | 0 |
| NM | 0 | 0 | 0 | 0 |
| OK | 11 | 5 | 13 | 7 |
| SD | 14 | 9 | 0 | 5 |
| TX | 50 | 45 | 49 | 52 |
| 11 Sts | 22 | 18 | 24 | 22 |

These 11 States planted 97% of last year's sorghum acreage.

| Oats Percent Harvested | | | | |
|------------------------|----------------|--------------|--------------|-------------|
| | Jul 28 2002 | Prev Week | Prev Year | 5-Yr Avg |
| IA | 84 | 55 | 40 | 62 |
| MN | 22 | 6 | 11 | 17 |
| NE | 91 | 81 | 71 | 77 |
| ND | 5 | 0 | 0 | 2 |
| OH | 35 | 19 | 50 | 45 |
| PA | 41 | 32 | 35 | 32 |
| SD | 60 | 37 | 15 | 28 |
| WI | 21 | 3 | 15 | 21 |
| 8 Sts | 36 | 21 | 21 | 27 |

These 8 States harvested 61% of last year's oat acreage.

| Spring Wheat Percent Headed | | | | |
|-----------------------------|----------------|--------------|--------------|-------------|
| | Jul 28 2002 | Prev Week | Prev Year | 5-Yr Avg |
| ID | 99 | 97 | 97 | 97 |
| MN | 98 | 96 | 99 | 98 |
| MT | 95 | 82 | 100 | 98 |
| ND | 97 | 92 | 96 | 95 |
| SD | 100 | 100 | 99 | 99 |
| WA | 100 | 100 | 100 | 100 |
| 6 Sts | 97 | 92 | 98 | 97 |

These 6 States planted 98% of last year's spring wheat acreage.

| Barley Percent Headed | | | | |
|-----------------------|----------------|--------------|--------------|-------------|
| | Jul 28 2002 | Prev Week | Prev Year | 5-Yr Avg |
| ID | 99 | 97 | 99 | 97 |
| MN | 98 | 97 | 96 | 98 |
| MT | 90 | 83 | 99 | 98 |
| ND | 97 | 90 | 97 | 95 |
| WA | 100 | 100 | 100 | 100 |
| 5 Sts | 96 | 91 | 98 | 97 |

These 5 States planted 78% of last year's barley acreage.

Crop Progress and Condition

Week Ending July 28, 2002

Weekly U.S. Crop Progress and Condition Tables provided by USDA/NASS

| Rice Percent Headed | | | | |
|--|----------------|--------------|--------------|-------------|
| | Jul 28 2002 | Prev Week | Prev Year | 5-Yr Avg |
| AR | 40 | 23 | 55 | 34 |
| CA | 15 | 5 | 19 | 9 |
| LA | 88 | 84 | 84 | 81 |
| MS | 52 | 39 | 58 | 51 |
| MO | 19 | 7 | 18 | 11 |
| TX | 95 | 92 | 92 | 84 |
| 6 Sts | 48 | 35 | 55 | 41 |
| These 6 States planted 100% of last year's rice acreage. | | | | |

| Soybeans Crop Condition by Percent | | | | | |
|------------------------------------|----|----|----|----|----|
| | VP | P | F | G | EX |
| AR | 2 | 8 | 34 | 45 | 11 |
| IL | 7 | 13 | 40 | 36 | 4 |
| IN | 8 | 19 | 38 | 31 | 4 |
| IA | 3 | 8 | 22 | 51 | 16 |
| KS | 8 | 19 | 38 | 30 | 5 |
| KY | 1 | 6 | 30 | 48 | 15 |
| LA | 5 | 12 | 30 | 50 | 3 |
| MI | 6 | 20 | 33 | 35 | 6 |
| MN | 3 | 9 | 28 | 49 | 11 |
| MS | 0 | 3 | 20 | 50 | 27 |
| MO | 10 | 22 | 42 | 23 | 3 |
| NE | 21 | 31 | 31 | 16 | 1 |
| NC | 7 | 9 | 33 | 50 | 1 |
| ND | 3 | 8 | 28 | 51 | 10 |
| OH | 16 | 28 | 37 | 17 | 2 |
| SD | 9 | 19 | 34 | 35 | 3 |
| TN | 4 | 7 | 29 | 50 | 10 |
| WI | 4 | 12 | 29 | 43 | 12 |
| 18 Sts | 7 | 15 | 33 | 38 | 7 |
| Prev Wk | 7 | 15 | 35 | 36 | 7 |
| Prev Yr | 2 | 8 | 30 | 48 | 12 |

| Corn Crop Condition by Percent | | | | | |
|--------------------------------|----|----|----|----|----|
| | VP | P | F | G | EX |
| CO | 18 | 21 | 33 | 21 | 7 |
| IL | 8 | 15 | 40 | 33 | 4 |
| IN | 10 | 22 | 37 | 28 | 3 |
| IA | 3 | 9 | 23 | 50 | 15 |
| KS | 18 | 26 | 28 | 25 | 3 |
| KY | 2 | 13 | 31 | 41 | 13 |
| MI | 8 | 21 | 34 | 31 | 6 |
| MN | 3 | 12 | 25 | 49 | 11 |
| MO | 13 | 26 | 35 | 23 | 3 |
| NE | 18 | 17 | 31 | 28 | 6 |
| NC | 19 | 22 | 35 | 21 | 3 |
| ND | 7 | 10 | 28 | 50 | 5 |
| OH | 22 | 30 | 32 | 15 | 1 |
| PA | 8 | 19 | 35 | 32 | 6 |
| SD | 19 | 26 | 28 | 24 | 3 |
| TN | 6 | 13 | 28 | 42 | 11 |
| TX | 17 | 22 | 28 | 24 | 9 |
| WI | 5 | 16 | 29 | 37 | 13 |
| 18 Sts | 10 | 17 | 31 | 35 | 7 |
| Prev Wk | 9 | 16 | 33 | 35 | 7 |
| Prev Yr | 2 | 8 | 26 | 49 | 15 |

| Sorghum Crop Condition by Percent | | | | | |
|-----------------------------------|----|----|----|----|----|
| | VP | P | F | G | EX |
| AR | 1 | 5 | 30 | 50 | 14 |
| CO | 13 | 30 | 40 | 16 | 1 |
| IL | 8 | 18 | 45 | 28 | 1 |
| KS | 17 | 32 | 37 | 13 | 1 |
| LA | 1 | 13 | 36 | 49 | 1 |
| MO | 4 | 13 | 45 | 35 | 3 |
| NE | 23 | 37 | 34 | 6 | 0 |
| NM | 25 | 37 | 29 | 9 | 0 |
| OK | 5 | 17 | 43 | 34 | 1 |
| SD | 34 | 30 | 29 | 6 | 1 |
| TX | 9 | 17 | 39 | 29 | 6 |
| 11 Sts | 13 | 25 | 38 | 21 | 3 |
| Prev Wk | 10 | 23 | 39 | 25 | 3 |
| Prev Yr | 9 | 19 | 34 | 34 | 4 |

| Cotton Crop Condition by Percent | | | | | |
|----------------------------------|----|----|----|----|----|
| | VP | P | F | G | EX |
| AL | 2 | 9 | 35 | 45 | 9 |
| AZ | 0 | 4 | 22 | 52 | 22 |
| AR | 2 | 5 | 37 | 45 | 11 |
| CA | 0 | 0 | 15 | 60 | 25 |
| GA | 3 | 10 | 34 | 41 | 12 |
| LA | 1 | 5 | 31 | 53 | 10 |
| MS | 0 | 3 | 15 | 57 | 25 |
| MO | 7 | 22 | 29 | 40 | 2 |
| NC | 2 | 6 | 35 | 51 | 6 |
| OK | 0 | 3 | 46 | 50 | 1 |
| SC | 5 | 17 | 59 | 19 | 0 |
| TN | 3 | 8 | 25 | 49 | 15 |
| TX | 7 | 13 | 37 | 32 | 11 |
| VA | 2 | 21 | 26 | 45 | 6 |
| 14 Sts | 4 | 9 | 32 | 42 | 13 |
| Prev Wk | 4 | 10 | 32 | 42 | 12 |
| Prev Yr | 9 | 13 | 28 | 40 | 10 |

| Peanuts Crop Condition by Percent | | | | | |
|-----------------------------------|----|---|----|----|----|
| | VP | P | F | G | EX |
| AL | 2 | 5 | 51 | 33 | 9 |
| FL | 0 | 0 | 10 | 80 | 10 |
| GA | 1 | 5 | 33 | 46 | 15 |
| NC | 0 | 3 | 19 | 65 | 13 |
| OK | 0 | 4 | 26 | 61 | 9 |
| TX | 1 | 6 | 20 | 51 | 22 |
| VA | 2 | 8 | 23 | 63 | 4 |
| 7 Sts | 1 | 5 | 28 | 51 | 15 |
| Prev Wk | 1 | 7 | 29 | 51 | 12 |
| Prev Yr | 2 | 6 | 26 | 52 | 14 |

| Oats Crop Condition by Percent | | | | | |
|--------------------------------|----|----|----|----|----|
| | VP | P | F | G | EX |
| IA | 1 | 8 | 28 | 53 | 10 |
| MN | 2 | 8 | 29 | 54 | 7 |
| NE | 19 | 27 | 37 | 17 | 0 |
| ND | 23 | 22 | 28 | 26 | 1 |
| OH | 3 | 13 | 39 | 44 | 1 |
| PA | 1 | 7 | 39 | 46 | 7 |
| SD | 43 | 33 | 16 | 8 | 0 |
| WI | 1 | 4 | 32 | 50 | 13 |
| 8 Sts | 15 | 17 | 29 | 34 | 5 |
| Prev Wk | 12 | 18 | 30 | 36 | 4 |
| Prev Yr | 1 | 7 | 30 | 53 | 9 |

Crop Progress and Condition

Week Ending July 28, 2002

Weekly U.S. Crop Progress and Condition Tables provided by USDA/NASS

| Rice Crop Condition by Percent | | | | | |
|--------------------------------|----|---|----|----|----|
| | VP | P | F | G | EX |
| AR | 1 | 5 | 33 | 44 | 17 |
| CA | 0 | 5 | 40 | 55 | 0 |
| LA | 0 | 2 | 31 | 61 | 6 |
| MS | 0 | 2 | 10 | 60 | 28 |
| MO | 1 | 5 | 25 | 52 | 17 |
| TX | 0 | 0 | 19 | 69 | 12 |
| 6 Sts | 1 | 4 | 30 | 52 | 13 |
| Prev Wk | 1 | 4 | 29 | 52 | 14 |
| Prev Yr | 0 | 3 | 25 | 57 | 15 |

| Spring Wheat Crop Condition by Percent | | | | | |
|--|----|----|----|----|----|
| | VP | P | F | G | EX |
| ID | 1 | 6 | 21 | 58 | 14 |
| MN | 5 | 12 | 49 | 30 | 4 |
| MT | 5 | 18 | 42 | 28 | 7 |
| ND | 9 | 15 | 37 | 35 | 4 |
| SD | 44 | 30 | 16 | 9 | 1 |
| WA | 0 | 6 | 49 | 42 | 3 |
| 6 Sts | 11 | 16 | 37 | 31 | 5 |
| Prev Wk | 11 | 17 | 34 | 34 | 4 |
| Prev Yr | 9 | 8 | 23 | 47 | 13 |

| Barley Crop Condition by Percent | | | | | |
|----------------------------------|----|----|----|----|----|
| | VP | P | F | G | EX |
| ID | 1 | 4 | 21 | 66 | 8 |
| MN | 6 | 17 | 41 | 32 | 4 |
| MT | 7 | 19 | 37 | 29 | 8 |
| ND | 7 | 10 | 35 | 45 | 3 |
| WA | 1 | 6 | 45 | 41 | 7 |
| 5 Sts | 5 | 11 | 34 | 44 | 6 |
| Prev Wk | 5 | 10 | 35 | 45 | 5 |
| Prev Yr | 8 | 11 | 31 | 42 | 8 |

| Pasture and Range Crop Condition by Percent | | | | | | | | | | | |
|---|----|----|----|----|----|---------|----|----|----|----|----|
| Week Ending July 28, 2002 | | | | | | | | | | | |
| | VP | P | F | G | EX | | VP | P | F | G | EX |
| AL | 1 | 5 | 38 | 50 | 6 | NH | 2 | 4 | 32 | 62 | 0 |
| AZ | 43 | 44 | 13 | 0 | 0 | NJ | 0 | 36 | 47 | 17 | 0 |
| AR | 1 | 4 | 27 | 60 | 8 | NM | 44 | 37 | 17 | 1 | 1 |
| CA | 15 | 60 | 25 | 0 | 0 | NY | 1 | 33 | 40 | 22 | 4 |
| CO | 65 | 27 | 6 | 2 | 0 | NC | 24 | 31 | 32 | 13 | 0 |
| CT | 10 | 12 | 29 | 49 | 0 | ND | 28 | 27 | 30 | 14 | 1 |
| DE | 34 | 24 | 27 | 13 | 2 | OH | 20 | 32 | 33 | 14 | 1 |
| FL | 0 | 0 | 10 | 85 | 5 | OK | 4 | 9 | 29 | 43 | 15 |
| GA | 5 | 21 | 44 | 26 | 4 | OR | 15 | 24 | 38 | 19 | 4 |
| ID | 2 | 17 | 42 | 39 | 0 | PA | 21 | 32 | 29 | 16 | 2 |
| IL | 12 | 21 | 44 | 22 | 1 | RI | 0 | 48 | 46 | 6 | 0 |
| IN | 13 | 27 | 39 | 19 | 2 | SC | 20 | 40 | 31 | 9 | 0 |
| IA | 20 | 24 | 33 | 22 | 1 | SD | 46 | 32 | 15 | 7 | 0 |
| KS | 36 | 28 | 25 | 10 | 1 | TN | 9 | 21 | 34 | 32 | 4 |
| KY | 8 | 15 | 33 | 36 | 8 | TX | 12 | 17 | 29 | 30 | 12 |
| LA | 3 | 9 | 35 | 49 | 4 | UT | 31 | 33 | 30 | 6 | 0 |
| ME | 0 | 1 | 9 | 63 | 27 | VT | 0 | 8 | 29 | 37 | 26 |
| MD | 29 | 31 | 28 | 12 | 0 | VA | 24 | 29 | 30 | 16 | 1 |
| MA | 0 | 5 | 15 | 80 | 0 | WA | 2 | 33 | 52 | 13 | 0 |
| MI | 9 | 36 | 34 | 18 | 3 | WV | 0 | 7 | 35 | 55 | 3 |
| MN | 5 | 15 | 35 | 38 | 7 | WI | 6 | 22 | 38 | 29 | 5 |
| MS | 4 | 6 | 28 | 47 | 15 | WY | 53 | 24 | 19 | 4 | 0 |
| MO | 13 | 22 | 37 | 27 | 1 | 48 Sts | 19 | 24 | 29 | 24 | 4 |
| MT | 18 | 29 | 35 | 16 | 2 | Prev Wk | 18 | 24 | 29 | 25 | 4 |
| NE | 58 | 31 | 10 | 1 | 0 | Prev Yr | 11 | 20 | 33 | 31 | 5 |
| NV | 12 | 30 | 38 | 17 | 3 | | | | | | |

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

NA - Not Available

* - Revised

National crop conditions for selected States are weighted based on the year 2001 planted acres.

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: Days suitable for fieldwork 4.8. Topsoil 2% very short, 18% short, 74% adequate, 6% surplus. Corn 95% silked, 99% 2001, 98% avg.; 46% dough, 78% 2001, 4% very poor, 9% poor, 48% fair, 30% good, 9% excellent. Soybeans 52% blooming, 51% 2001, 44% avg.; 19% setting pods, 25% 2001, 22% avg.; 1% very poor, 3% poor, 61% fair, 30% good, 5% excellent. Pasture, range feed 1% very poor, 5% poor, 38% fair, 50% good, 6% excellent. Livestock condition: 0% very poor, 2% poor, 14% fair, 65% good, 19% excellent. Rains in portions of the state delayed hay harvesting, other fieldwork, but provided much needed moisture for the state's row crops.

ALASKA: Days suitable for fieldwork 5.0. Topsoil 20% short, 80% adequate. Subsoil 15% short, 85% adequate. Most of the state received some much needed rainfall as several storms passed over the state. Daytime high temperatures ranged from the mid sixties to mid eighties. Nighttime lows ranged from the low forties to mid fifties. Barley 75% in dough with some fields near Delta were starting to turn color, 20% fair, 60% good, 20% excellent. Oat 40% in dough, 20% fair, 55% good, 25% excellent. Potato 55% in bloom, 10% fair, 70% good, 20% excellent; 75% moderate, 25% rapid. Range, pasture feed 5% poor, 30% fair, 55% good, 10% excellent. First cutting Hay harvest was 95% complete, 10% fair, 70% good, 20% excellent. Activities: Harvesting hay, vegetables, grass seed, fertilizing, cultivation, weed control, irrigation, equipment repair.

ARIZONA: Temperatures throughout most of the state continued to be above average. Most parts of the state received significant rainfall for the second consecutive week. However, precipitation levels to date remain well below normal. Cotton squaring was complete, while cotton setting bolls was reported at 95% ahead of 2001 rate of 93%, ahead of the 5-yr average of 91%. Cotton condition remains mostly good.

ARKANSAS: Days suitable for fieldwork 5.5. Soil 1% very short, 21% short, 73% adequate, 5% surplus. Sorghum 85% headed, 91% 2001, 79% 5 yr. avg.; 44% turning color, 59% 2001, 29% 5 yr. avg.; 1% very poor, 5% poor, 30% fair, 50% good, 14% excellent; Corn 99% tassling, 100% 2001, 100% 5 yr. avg.; 75% dough, 80% 2001, 82% 5 yr. avg.; 3% poor, 25% fair, 55% good, 17% excellent; Wheat 100% harvested, 100% 2001, 100% 5 yr. avg. Soybeans 100% planted, 100% 2001, 100% 5 yr. avg.; 97% emerged, 100% 2001, 100% 5 yr. avg.; 65% blooming, 79% 2001, 57% 5 yr. avg.; 39% setting pods, 47% 2001, 24% 5 yr. avg.; 2% very poor, 8% poor, 34% fair, 45% good, 11% excellent; Cotton 88% setting bolls, 99% 2001, 93% 5 yr. avg.; 0% opening bolls, 2% very poor, 5% poor, 37% fair, 45% good, 11% excellent; Rice 40% headed, 55% 2001, 34% 5 yr. avg.; 1% very poor, 5% poor, 33% fair, 44% good, 17% excellent. Other Hay 0% very poor, 2% poor, 21% fair, 68% good, 9% excellent; Pasture, range feed 1% very poor, 4% poor, 27% fair, 60% good, 8% excellent. **FIELD CROP:** Soybean planting is complete, reported looking good in larger producing counties. Excessive rains have eliminated most irrigation, but fungicides, insecticides are needed in most rice fields. Cotton, soybeans, sorghum also being sprayed for weeds. Boll worm reported in many cotton fields and web worms in soybeans. Grasshoppers remain a major threat. **LIVESTOCK, PASTURE, RANGE:** Cattle are in good condition. Producers are lightly working cattle. Excessive rains have slowed hay cuttings, balings and, generally, behind normal season cuttings. Pastures are being bush-hogged, fertilized.

CALIFORNIA: Cotton fields were blooming, showing good boll development. Plant growth regulators were used in some areas to increase maturity. Weeding, cultivation, irrigation, treatments for aphids, lygus continued in many areas. Alfalfa hay and seed fields showed rapid growth. Alfalfa hay was cut, windrowed, baled, stacked. Bloom continued in alfalfa seed fields, with pollination assisted by bees. Alfalfa fields were irrigated, treated to control insect pests as necessary. No grain harvesting activity was reported during the week, as the wheat harvest was complete in the San Joaquin, Sacramento valleys. Harvesting of wheat in the Siskiyou-Shasta region was expected to begin soon. Harvested wheat, oats, barley fields were laying fallow or being prepared for fall planting. Straw in harvested grain fields was baled, stacked. Field, silage corn continued to thrive. Irrigation, cultivation, treatments to control insect pests continued in many fields. Silage corn continued to be cut. Harvesting of corn for grain began in a few locations. Sugar beet harvesting proceeded at a steady pace. Recently planted fields of sugar beets, sweet potatoes continued to mature well. Dry bean growth was good overall, with favorable pod development reported. However, recent hot nights have restricted pod set in some locations. Lygus, aphids were building in some dry bean fields. Harvesting of wild rice, safflower began. The rice crop was progressing well. Fungicides were applied in some rice fields. Some late-planted rice received weed treatments. Potato harvesting continued. Active harvesting of table grapes continued as

more vineyards reached maturity. Varieties picked, packed included Black Corinth, Beauty Seedless. Raisin, wine, table grapes continued to show excellent fruit development. Irrigation, cultivation and fungicide and insecticide applications continued as needed. Stone fruit harvesting continued as late varieties reached maturity. Irrigation, cultivation, weed and pest control treatments continued as necessary. Among the varieties picked, packed were: Red Glen, Zee Glo nectarines; Sugar Giant, Summer Zee peaches; Golden, King's Black plums. Pomegranates, apples, persimmons, Asian pears continued to thrive. Whitewash was applied to apples to prevent sunburn. Gala apple harvesting began in the Firebaugh district. Fig harvesting continued. Strawberry harvesting continued in the Central Coast counties. Patches in other locations were tarped, fumigated for nematodes in preparation for fall planting. Spraying for the olive fruit fly continued in olive groves. Steady fruit development continued in citrus orchards. Valencia orange harvesting remained slow. Many lots reported rough texture, re-greening. The Navel orange crop has been expected to show moderate crop size with good fruit size. Grapefruit harvesting continued. Lemons were harvested in the coastal areas of the State. Irrigation activity increased in many nut orchards due to warm temperatures. Walnuts, pistachios, pecans showed good size, development. Codling moth treatment continued in many walnut orchards. Almond hull split increased. A heavy almond crop caused limb breakage in some orchards. Almond growers continued to prepare orchard floors for harvest. Vegetables continued to develop rapidly due to the hot weather. Harvesting of cantaloupes, watermelons, honeydews, mixed melons continued in the southern Central Valley. Harvesting of processing, fresh market tomatoes, sweet corn, garlic, squash, cucumbers, eggplant, onions continued at a steady rate. In Tulare County, the mosaic virus began to appear in some zucchini, cucumber fields. Field preparations for fall planting began. In the Central Coast region, onion harvesting wound down while harvesting of iceberg lettuce continued. Large quantities of mixed lettuces and small amounts of celery were also harvested. In Imperial County, fall cantaloupes, carrots were treated for weeds. In Northern state, harvesting began in some earlier planted fields of processing, fresh market tomatoes, but full scale harvesting was still one to two weeks away. The following vegetables were also harvested: carrots, beans, bell peppers, Swiss chard, chives, okra, parsnips, radishes, spinach, numerous varieties of squash. The condition of higher-elevation summer pastures was mixed. Overall, pasture feeds in Northern state were much better than in the south. Beef cow operations have culled, in some cases, liquidated beef cows in Southern state due to extremely dry conditions. Cows that had not shipped to summer pastures were being fed hay or supplement on dry foothill pastures in central state. Sheep were grazed in harvested grain fields, fallow fields. Cooler temperatures reduced the stress on dairy cows, poultry.

COLORADO: Days suitable for field work 6.8. Topsoil 70% very short, 24% short, 6% adequate, 0% surplus. Subsoil 70% very short, 24% short, 6% adequate, 0% surplus. State experienced another hot week, temperatures were 2° above average. However, state received some relief with moisture in most areas except for the north eastern corner of the state. Spring barley 64% turning color, 89% 2001, 82% avg.; 23% harvested, 27% 2001, 22% avg.; 3% very poor, 6% poor, 37% fair, 40% good, 14% excellent. Spring wheat 63% turning color, 72% 2001, 64% avg.; 23% harvested, 21% 2001, 16% avg.; 6% very poor, 4% poor, 35% fair, 40% good, 15% excellent. Dry onions condition 1% very poor, 1% poor, 9% fair, 63% good, 26% excellent. Summer potatoes condition 1% very poor, 2% poor, 3% fair, 55% good, 39% excellent. Fall potatoes condition 0% very poor, 0% poor, 20% fair, 50% good, 30% excellent. Dry beans 57% flowered, 44% 2001, 52% avg.; 16% very poor, 12% poor, 30% fair, 38% good, 4% excellent. Alfalfa 56% 2nd cutting, 51% 2001, 55% avg.; 9% very poor, 14% poor, 37% fair, 34% good, 6% excellent.

DELAWARE: Days suitable for fieldwork 5.0. Topsoil 13% very short, 42% short, 45% adequate. Subsoil 60% very short, 36% short, 4% adequate. Range, pasture feed 34% very poor, 24% poor, 27% fair, 13% good, 2% excellent. Corn 46% very poor, 15% poor, 18% fair, 20% good, 1% excellent, 88% silked, 87% 2001, 73% avg. Sorghum 34% very poor, 19% poor, 26% fair, 21% good. Lima beans for processing harvested 11% avg. Snap beans harvested 43%, 44% 2001, 36% avg. Soybean 28% very poor, 28% poor, 25% fair, 15% good, 4% excellent, 34% blooming, 23% 2001, 30% avg.; 15% setting pods, 9% 2001, 11% avg. Apples 16% harvested, 4% 2001, 3% avg.; 7% very poor, 18% poor, 26% fair, 43% good, 6% excellent. Cucumbers 40% harvested, 33% 2001, 38% avg. Sweet Corn 37% harvested, 33% 2001, 31% avg. Peaches 10% very poor, 19% poor, 27% fair, 33% good, 11% excellent, 48% harvested, 25% 2001, 27% avg. Watermelon 25% harvested, 23% 2001, 18% avg. Potatoes 43% harvested, 24% 2001, 31% avg. Tomatoes 15% harvested, 12% 2001, 19% avg. Cantaloupes 24% harvested, 24% 2001, 22% avg. Other hay 3rd cutting 22%, 34% 2001, 42% avg. Alfalfa Hay 3rd cutting

31%, 30% 2001, 36% avg. Hay supplies 5% very short, 26% short, 69% adequate. Rain last week provided some relief to the recent dry conditions. Some corn meant to be harvested for grain is being chopped for silage as a salvage operation. Irrigated vegetable crops are in good shape, although costs are high on sweet corn due to irrigation.

FLORIDA: Topsoil moisture 1% very short, 1% short, 47% adequate, 51% surplus. Subsoil 7% short, 43% adequate, 50% surplus. Scattered daily rainfall during week. Rainfall range: traces at West Palm Beach to about 4.00 in. at Jacksonville, Avalon, Ona. Temperature average 1° above to 3° below normal at major stations. Daytime highs: 80s, 90s. Nighttime lows: mostly 70s. Panhandle, northern Peninsula counties report mostly adequate topsoil, subsoil moisture supplies with a few pockets of short supplies where less rain received recently. Central, southern Peninsula counties report adequate to surplus supplies except for very short to short supplies in extreme southeast. Peanut 10% fair, 80% good, 10% excellent; 90% pegged.; 84% 2001, 5-yr 87% avg.; Cotton mostly good to excellent; some yield loss on oldest plants due to earlier dry weather. Tobacco harvesting active; some growers combating disease. Hay making active between showers; rain causing some quality loss, slowing some baling. Tomato planting underway around Quincy. Okra harvesting continues, Miami-Dade County. Southern Peninsula producers continue to plan for fall croplanting. Lots of rain with lightning in some citrus areas, most irrigation stopped, some growers fertilizing through their watering systems, regular bloom new crop fruit making very good progress, some late bloom fruit showing on a limited amount of orange and specialty trees, a little late bloom fruit being picked for the fresh squeeze juice plants. Caretakers cutting cover crops, removing vines, hedging, topping; dead trees being removed, burned; growers fertilizing, spraying, plowing wet groves, deep discing. Pasture feed 10% fair, 85% good, 5% excellent. Cattle condition 5% fair, m95% good. Panhandle, north: pasture feed fair to excellent; cattle condition fair to good; condition of some Bahia decreased by 'dollar spot' disease. Central: cattle condition good, pasture condition fair to good. south: pasture feed mostly good; some pastures in poor condition due to high surface water levels, flooding.

GEORGIA: Days suitable for field work 5.6. Soil 12% very short, 35% short, 49% adequate, 4% surplus. Corn 85% dent, 72% 2001, 78% avg.; 46% mature, 33% 2001, 42% avg.; 9% harvested for grain, 3% 2001, 6% avg. Hay 5% very poor, 17% poor, 45% fair, 29% good, 4% excellent. Sorghum 1% very poor, 9% poor, 39% fair, 49% good, 2% excellent. Tobacco 18% very poor, 23% poor, 35% fair, 21% good, 3% excellent; 44% harvested, 36% 2001, 43% avg. Watermelons 96% harvested, 91% 2001, 91% avg. Apples 4% poor, 39% fair, 48% good, 9% excellent; 8% harvested, 6% 2001, 4% avg. Peaches 92% harvested, 95% 2001, 92% avg. Pecans 3% very poor, 16% poor, 43% fair, 36% good, 2% excellent. Temperatures last week were above normal, but slightly cooler than the previous week. A low pressure system moved through the State during the week, brought isolated thunderstorms, heavy rains to several areas. Showers gave a boost to the State's crops, pastures; still, soil conditions remain critically low. Crops continued to show signs of drought-related stress. Growers continued to cut, bale hay; however, high humidity, rain impeded drying. Cattlemen continued to feed hay. Tomato Spotted Wilt Virus reports increased in tobacco. Growers sprayed cotton for Beet armyworms, other pests. The watermelon harvest neared completion. Activities, Farmers applied fungicides to pumpkins, grapes, sprayed pecan trees for disease, routinely managed livestock, poultry.

HAWAII: Fair trade wind weather continued to benefit agriculture throughout the State. Soil moisture was adequate. Harvesting will remain active for bananas. Papaya production will be steady. Most vegetable crops continued to make favorable progress during the week, remained in fair to good condition.

IDAHO: Days suitable for fieldwork 6.8. Topsoil 17% very short, 45% short, 38% adequate. Irrigation water supply 6% very poor, 22% poor, 30% fair, 42% good. Potatoes 97% closing middles, 89% 2001, 87% avg.; 1% very poor, 1% poor, 11% fair, 65% good, 22% excellent. Winter wheat 97% turning color, 89% 2001, 89% avg.; 2% poor, 27% fair, 61% good, 10% excellent. Spring wheat 58% turning color, 56% 2001, 60% avg.; 1% harvested, 2% 2001, 1% avg. Barley 65% turning color, 61% 2001, 55% avg.; 1% harvested, 2% 2001, 3% avg. Oats 0% harvested for grain, 3% 2001, 3% avg. Alfalfa hay 57% 2nd cutting harvested, 63% 2001, 57% avg.; 0% 3rd cutting harvested, 4% 2001, 4% avg. Mint 16% 1st cutting harvested, 19% 2001, 22% avg. Dry Peas 10% harvested, 51% 2001, 22% avg. Peaches 3% harvested, 7% 2001, 10% avg. Activities: Irrigating, applying pesticides, baling alfalfa, roguing sugarbeets, harvesting winter wheat.

ILLINOIS: Days suitable for fieldwork 5.5. Topsoil 20% very short, 40% short, 39% adequate, 1% surplus. Corn 1% dented, 5% 2001, 4% avg. Oats 100% turning yellow, 99% 2001, 99% avg.; 93% ripe, 92% 2001, 87% avg.; 60% harvested, 58% 2001, 54% avg. Alfalfa 2nd crop cut 92%, 93% 2001, 91% avg.; 3rd crop 30%, 27% 2001, 19% avg.; Rains fell in many areas of the state last week bringing some much needed relief. There were still other areas, mainly in the south, that were not so fortunate, the crop outlook in that area is bleak. Some storms brought high winds, hail which flattened some corn fields to where they will only be harvestable with corn head attachments. Soybean crops will benefit greatly from the rains as most have now begun to bloom. Livestock have

been suffering from the heat the past few weeks but are surviving remarkably well. Preparations for harvest have begun as fall approaches. Local county fairs are numerous with many farmers, their families participating in them. Activities: Baling hay, mowing roadsides, waterways.

INDIANA: Days suitable for fieldwork 6.4. Topsoil 31% very short, 42% short, 26% adequate, 1% surplus. Subsoil 25% very short, 40% short, 34% adequate, 1% surplus. Hot weather early in week. Major crops under severe stress last week. Rain some areas, spotty, scattered again during the week. Many areas received no rain. Corn, soybean crops under severe stress, most areas of the state. Hay crops, pastures also hurting from the dry conditions. Most critical areas for soil moisture remain in the north central, northeast, east central regions. Many corn fields entered the pollination stage last week. Corn curling, soybean leaves cupping. Irrigation active where available. Spraying for weeds, insects continued. Japanese beetles are active. Temperatures averaged 1° to 6° above normal. Precipitation averaged 0 to 2.44 inches. Winter wheat harvest is virtually complete. Alfalfa hay 2nd cutting 88% complete, 97% 2001, 87% avg. Pastures 13% very poor, 27% poor, 39% fair, 19% good, 2% excellent. Livestock under some stress. Feeding of hay necessary, some farms. Activities: Cutting, baling hay, baling straw, selling grain, harvesting mint, scouting fields, cleaning up, repairing equipment, mowing roadsides, pastures, hauling manure, attending county fairs, taking care of livestock.

IOWA: Days suitable for fieldwork 5.3. Topsoil 24% very short, 30% short, 46% adequate, 0% surplus. Subsoil 28% very short, 36% short, 36% adequate, 0% surplus. Oats 84% harvested for grain, 40% 2001, 62% avg. Corn 3% very poor, 9% poor, 23% fair, 50% good, 15% excellent, 86% silking, 67% 2001, 80% avg.; 7% doughing, 2% 2001, 4% avg. Soybeans 93% blooming, 74% 2001, 88% avg.; 55% setting pods, 30% 2001, 48% avg.; 3% very poor, 8% poor, 22% fair, 51% good, 16% excellent. Pasture feed 20% very poor, 24% poor, 33% fair, 22% good, 1% excellent. Dry weather for much of last week gave way to rains over the weekend, somewhat alleviating drought stress for corn, soybeans. Conditions for both crops improved slightly as state enjoyed above normal precipitation for the week. Topsoil levels increased, but over 50% of the state is still rated short or very short. Subsoil moisture levels increased very slightly. While conditions have improved for state crops in most areas, some early planted corn may have already been compromised by drought effects. Overall about two-thirds of the corn, soybean crops are rated good to excellent, while the corn stand is rated 95% of normal. Hay, pasture feeds were largely unchanged.

KANSAS: Days suitable for fieldwork 6.6. Topsoil 56% very short, 31% short, 12% adequate, 1% surplus. Subsoil 49% very short, 35% short, 16% adequate. Wheat 100% harvested, 100% 2001, 100% avg. Corn 18% very poor, 26% poor, 28% fair, 25% good, 3% excellent, 88% silking, 96% 2001, 93% avg.; 32% doughing, 39% 2001, 35% avg. Sorghum 17% very poor, 32% poor, 37% fair, 13% good, 1% excellent, 37% headed, 44% 2001, 36% avg.; 3% turning, 9% 2001, 3% avg. Soybean 8% very poor, 19% poor, 38% fair, 30% good, 5% excellent, 68% blooming, 83% 2001, 75% avg.; 30% podding, 40% prev, 33% avg. Alfalfa 2nd cutting 98% completed, 99% 2001, 99% avg.; 3rd cutting 44% completed, 63% 2001, 53% avg. Pasture feed 36% very poor, 28% poor, 25% fair, 10% good, 1% excellent.

KENTUCKY: Days suitable for fieldwork 5.5. Topsoil 17% very short, 36% short, 43% adequate, 4% surplus. Subsoil 11% very short, 37% short, 49% adequate, 3% surplus. The top agricultural activities like the previous week were baling hay, clipping pastures, topping tobacco, spraying for weeds in soybeans. Corn, soybean crops had mixed reports but both need rain. There were several reports of tobacco being under stress due to black shank, blue mold and the lack of precipitation. Tobacco 3% very poor, 10% poor, 28% fair, 43% good, 16% excellent. Burley tobacco 55% blooming, 61% 2001, 52% 5 yr avg.; 22% topped, 34% 2001, 28% 5 yr avg. Dark tobacco topped 54%, 74% 2001, 56% 5 yr avg. Harvesting of hay continued to be one of the major farming activities this week. Hay 4% very poor, 11% poor, 38% fair, 38% good, 9% excellent.

LOUISIANA: Days suitable for fieldwork 4.9. Soil 2% very short, 14% short, 73% adequate, 11% surplus. Corn 4% very poor, 15% poor, 42% fair, 33% good, 6% excellent; 94% dough stage, 88 last week, 99% 2001, 99% avg.; 50% mature, 42% last week, 77% 2001, 67% avg.; 5% harvested, 1% last week, 3% 2001, 9% avg. Hay 43% 2nd cutting, 37% last week, 64% 2001, 47% avg. Peaches 80% harvested, 75% last week, 89% 2001, 95% avg. Rice 38% ripe, 24% last week, 42% 2001, 39% avg.; 14% harvested, 7% last week, 21% 2001, 19% avg. Rice harvest continued with yields higher than anticipated in some fields. Sorghum 18% ripe, 8% last week, 37% 2001, 17% avg. Soybeans 3% turning color, 0% last week, 0% 2001, 0% avg. Disease, army worm populations were being treated in soybeans. Sugarcane 3% poor, 16% fair, 51% good, 30% excellent. Livestock 5% poor, 35% fair, 55% good, 5% excellent. Vegetables 2% very poor, 20% poor, 40% fair, 38% good.

MARYLAND: Days suitable for fieldwork 5.4. Topsoil 32% very short, 43% short, 25% adequate. Subsoil 52% very short, 37% short, 11% adequate. Barley 100% harvested, 100% 2001, 100% avg. Winter Wheat 100% harvested, 97% 2001, 99% avg. Range, pasture feed 29% very poor,

31% poor, 28% fair, 12% good. Corn 26% very poor, 29% poor, 22% fair, 22% good, 1% excellent; 74% silked, 65% 2001, 65% avg. Cantaloupes 44% harvested, 31% 2001, 40% avg. Peach 10% poor, 34% fair, 55% good, 1% excellent; 25% harvested, 28% 2001, 24% avg. Sweet corn 52% harvested, 34% 2001, 42% avg. Apple 4% poor 20% fair, 76% good, 2% harvested. Cucumbers 58% harvested, 54% 2001, 50% avg. Tobacco 6% very poor, 32% poor, 40% fair, 22% good, 42% bloomed, 39% 2001, 51% avg. Lima beans 15% harvested, 36% 2001, 18% avg. Snap Beans 62% harvested, 55% 2001, 48% avg. Soybean 15% very poor, 28% poor, 43% fair, 14% good, 1% excellent; 11% setting pods, 12% 2001, 16% avg.; 41% blooming, 37% 2001, 38% avg. Potatoes 43% harvested, 54% 2001, 63% avg. Tomatoes 20% harvested, 26% 2001, 26% avg. Watermelons 14% harvested, 22% 2001, 21% avg. Sorghum 1% poor, 99% fair. Other hay 2nd cutting 79%, 86% 2001, 74% avg.; 3rd cutting 42%, 29% 2001, 26% 4th cutting 9% 2001, 2% avg. Alfalfa hay 3rd cutting 52%, 43% 2001, 33% avg.; 4th cutting 2%, 4% 2001, 1% avg. Hay supplies 7% very short, 33% short, 56% adequate, 4% surplus. The recent dry weather trend was broken last week with periods of scattered rain showers. Some areas received less than .5 inches while others received up to 3 inches of moisture. Rain will benefit soybeans, late planted corn.

MICHIGAN: Days suitable for fieldwork 6.0. Topsoil 24% very short, 26% short, 46% adequate, 4% surplus. Subsoil 24% very short, 35% short, 38% adequate, 3% surplus. All hay 2nd cutting 60%, 65% 2001, 62% avg.; 10% very poor, 24% poor, 30% fair, 27% good, 9% excellent. Corn Height 59 inches, 60 inches 2001, 64 inches avg. Dry beans 25% blooming, 33% 2001, 51% avg.; 11% setting pods, 8% 2001, 12% avg.; 5% very poor, 16% poor, 45% fair, 30% good, 4% excellent. Oats 89% turning yellow, 94% 2001, 86% avg.; 14% harvested, 16% 2001, 23% avg.; 3% very poor, 8% poor, 28% fair, 49% good, 12% excellent. Winter Wheat 92% harvested, 94% 2001, 90% avg. Temperatures ranged from normal to 3°. Drought conditions present south early week. Thunderstorms brought some much needed relief. Most areas received significant rainfall. Average rainfall amounts ranged from 0.28 inch northwest Lower Peninsula to 1.80 inches thumb area. The corn crop highly variable. The dryland corn crop condition ranged from very poor to good, irrigated fields good. Corn tasseling with silk emergence coming on fast, many fields only about five feet in height. Damage from first generation European corn borers evident many fields. Soybeans uncurled, started to get some growth, leaves. Plants blooming, starting to pod but short height. Japanese beetles beginning to defoliate some soybeans. Soybean aphid numbers remained low, soybean cyst nematodes found on roots. Sugarbeets growing well, but stands thinner than normal, weeds a problem. A few fields had *Cercospora* leafspots. Winter wheat harvest nearly complete with good yields, very low vomitoxin levels reported. The second cutting of alfalfa generally poor to fair and short because there no rain for regrowth and potato leafhopper numbers have been very heavy. The dry bean crop highly variable condition. Most fields bloom, setting pods, with high potato leafhopper pressure. Oat harvest under way early planted fields. Insect activity last week included increased numbers of apple maggot, blueberry maggot, lesser peachtree borer, dogwood borer, grape berry moth, codling moth, and Japanese beetle. Peach harvest continued south. Tart cherry harvest almost complete west central. Sweet cherry harvest complete northwest. Harvest of early plum varieties began southwest. Blueberry harvest continued. Grapes tight cluster southwest. Strawberry regrowth after renovation appeared good on fields that irrigated. Raspberry harvest continued. Fern growth on asparagus fields that harvested looked very poor. Hot and humid weather caused a significant increase foliar diseases for carrots, onions. Leafhoppers continued to be a problem for carrot crop. Some onions two inches diameter. Snap bean harvest will be beginning soon, as development very rapid. Cucumber harvest continued without problems. The early fields removed. The pickle harvest continued with good quality, yields reported. Cantaloups and watermelon continued to grow rapidly due to warm conditions. Melons being harvested moisture stressed fields where fruit size limited. Tomato harvest should begin shortly. Peppers eggplants continued to flower, early fruit sizing well. Squash, zucchini harvest continued. In sweet corn, European corn borers pupal stage, adult populations increasing. Celery harvest activity increased. Potato harvest began. Some tarnished plant bug, flea beetles found fields. Pumpkins developed very good vines, fields had fruit up to a foot diameter. Cabbage harvest continued with good quality.

MINNESOTA: Days suitable for fieldwork 5.0. Topsoil 8% very short, 18% short, 67% adequate, 7% surplus. Spring Wheat 60% turning ripe, 53% 2001, 66% avg.; 1% harvested, 0% 2001, 3% avg. Oats 93% turning ripe, 85% 2001, 85% avg. Barley 66% turning ripe, 61% 2001, 66% avg.; 5% harvested, 2% 2001, 6% avg. Corn 12% milking, 0% 2001, 12% avg. Pasture feed 5% very poor, 15% poor, 35% fair, 38% good, 7% excellent. Dry beans 5% very poor, 9% poor, 40% fair, 39% good, 7% excellent. Potatoes 2% very poor, 4% poor, 16% fair, 57% good, 21% excellent. Sunflowers 3% very poor, 5% poor, 30% fair, 58% good, 4% excellent. Canola 34% very poor, 42% poor, 15% fair, 8% good, 1% excellent. Sugarbeets 4% very poor, 10% poor, 36% fair, 43% good, 7% excellent. Widespread rains, slightly cooler temperatures provided at least temporary relief to most crop-producing areas which had been stressed by recent heat, lack of moisture. Only light rains fell over most of the Northwest District, where crops improved as excess moisture evaporated. The southwest corner of the state also received only light rains, so the ongoing moisture shortage there continued to intensify. Statewide temperatures for the week averaged 0.7° below normal. Winds over 80 miles per hour moved across a wide band of Stevens County a week ago, flattening small grains, snapping corn plants, destroying trees, farm structures. Other

localities suffered crop damage from storms on a smaller scale. Both for reasons of too little rain producing short stands of hay, too much rain preventing baling of cut hay, supplies of dry hay are short. Livestock producers are making use of CRP haying, grazing provisions.

MISSISSIPPI: Days suitable for fieldwork 4.3. Soil 2% very short, 8% short, 73% adequate, 17% surplus. Corn 100% silked, 100% 2001, 99% avg.; 95% dough, 95% 2001, 93% avg.; 75% dent, 72% 2001, 74% avg.; 20% mature, 25% 2001, 21% avg.; 41% silage harvested, 34% 2001, 36% avg.; 1% very poor, 5% poor, 20% fair, 51% good, 23% excellent. Cotton 100% squaring, 100% 2001, 99% avg.; 95% setting bolls, 95% 2001, 95% avg.; 3% poor, 15% fair, 57% good, 25% excellent. Rice 52% heading, 58% 2001, 51% avg.; 2% poor, 10% fair, 60% good, 28% excellent. Sorghum 99% heading, 98% 2001, 94% avg.; 53% turning color, 49% 2001, 43% avg.; 3% mature, 9% 2001, 4% avg.; 2% poor, 6% fair, 58% good, 34% excellent. Soybeans 93% blooming, 97% 2001, 88% avg.; 72% setting pods, 86% 2001, 71% avg.; 3% turning color, 13% 2001, 4% avg.; 3% poor, 20% fair, 50% good, 27% excellent. Hay 68% harvested (Warm Season), 72% 2001, 67% avg.; 6% poor, 23% fair, 49% good, 22% excellent. Sweetpotatoes 4% very poor, 20% poor, 48% fair, 28% good. Watermelons 89% harvested, 78% 2001, 72% avg. Cattle 1% very poor, 5% poor, 16% fair, 64% good, 14% excellent. Pasture 4% very poor, 6% poor, 28% fair, 47% good, 15% excellent. Widespread rains across the state have helped the row crops, pastures improve in condition.

MISSOURI: Days suitable for fieldwork 6.5. Topsoil 28% very short, 40% short and 32% adequate, a further decline from a week earlier. Crop condition is continuing to decline in most areas as the high temperatures are causing stress while rainfall patterns have been irregular. The northwest district continues as the driest area where the moisture ratings are 23% short, 70% very short, but all major crop districts indicate a majority of ratings as short or very short. Rain is urgently needed for development of corn ears and soybean pods. Corn development ranges from around 72% silking, 26% doughing in the northeast district to 99% silking, 77% doughing in the southeast. Soybeans podding range from 5% or less in the northeast and south-central districts, to 39% in the north-central district. Alfalfa 2nd crop 96% cut, 90% 2001, 93% avg.; 3rd 31% cut, 21% 2001, 23% avg. Other hay 96% cut, 95% 2001, 92% avg. Growth has been poor for some of the late alfalfa cuttings. Pastures 13% very poor, 22% poor, 37% fair, 27% good, 1% excellent, continuing the downward trend. Farmers in several northern, western counties have had to begin supplemental hay feeding where pastures are poorest. Rainfall for the week averaged 0.73 inch, ranging from mostly less than 0.25 inch in the south-central, southeast districts to 1.36 inches in the north-central district.

MONTANA: Days suitable for fieldwork 6.8. Topsoil 32% very short, 40% short, 27% adequate, 1% surplus. Subsoil 36% very short, 39% short, 24% adequate, 1% surplus. Winter wheat 90% turning, behind both 2001, 96% 5-yr avg. Winter wheat 34% ripe now, behind 2001, the 5-yr avg of 81%, 63%, respectively. Harvesting has begun, 6% complete, compared to 37% 2001, 5-yr. avg of 26%. Winter wheat 7% very poor, 23% poor, 46% fair, 21% good, 3% excellent. Barley in boot is 97%, still behind both 2001, the 5-yr avg of 100%. Barley 90% headed, behind 2001 when headed was at 99%, the 5-yr avg of 98%. Barley 52% turned, compared to 65% 2001, 5-yr avg of 60%. Ripening in barley is now 7%, compared to 2001, the 5-yr. avg of 11%, 10%, respectively. Barley harvest has initiated, with 2% harvest, compared to 1% 2001, 5-yr avg 2%. Barley 7% very poor, 19% poor, 37% fair, 29% good, 8% excellent. Spring wheat boot is at 98%, still behind 2001, the 5-yr avg when boot was complete. Spring wheat headed 95%, behind 2001, 100%, and the 5-year average of 98%. Turning is now 51%, behind 2001 69% and the 5-year average of 64%. Spring wheat ripening is 7%, behind both 2001, the 5-year averages of 14% and 10%, respectively. Harvest of spring wheat has started at 2%, compared with none 2001, the 5-year average of 1%. Spring wheat 5% very poor, 18% poor, 42% fair, 28% good, 7% excellent. Oats in boot is rated at 99%, behind 2001, the 5-year averages when boot was complete. Oats headed 96%, slightly ahead of 2001 95%, and same as the 5-year average. Oats turning is now 54%, ahead of 2001 50%, but the same as the 5-year average. Ripening is 17%, compared to 18% 2001, the 5-year average of 17%. Harvesting of oats is 2%, the same as 2001 but behind the 5-year average of 3%. Oats 8% very poor, 19% poor, 36% fair, 32% good, 5% excellent. Dry bean 2% very poor, 14% poor, 48% fair, 34% good, 2% excellent. Corn 1% very poor, 6% poor, 24% fair, 58% good, 11% excellent. Potatoes 0% very poor, 0% poor, 8% fair, 80% good, 12% excellent. Haying is making progress as 97% of the alfalfa hay harvested, compared to 92% 2001, the 5-year average of 95%. Second cutting has started with 23% complete. All other hay harvested is 86% complete, compared to 2001, the 5-year average of 76% and 77%, respectively. Second cutting is 8% complete. Pasture, range feed 18% very poor, 29% poor, 35% fair, 16% good, 2% excellent; 2001 16% very poor, 22% poor, 33% fair, 23% good, 6% excellent while the 5-year average is 10% very poor, 18% poor, 36% fair, 29% good, 6% excellent.

NEBRASKA: Days suitable for fieldwork 6.5. Topsoil, subsoil moisture mostly very short to short across the State. Temperatures averaged from 1° below to 5° above normals for the week. Precipitation fell statewide, amounts were light except in the southeast, along the eastern most tier of counties where one inch or more was common. Alfalfa 2nd cutting 97%, 89% 2001, 89% avg.; 3rd cutting 26%, 9% 2001, 6% avg. Some livestock producers providing supplemental feed to livestock on pastures, moving cattle to dry lots, and/or culling deeper into their herds.

NEVADA: Afternoon thunder showers were common over much of the State, but precipitation totals were modest. Ely recorded .09 inch while most stations recorded only traces. A few isolated localities received heavy rains. The thundershowers lowered temperatures to near normal across most of the State. Smoke from major wildland fires in neighboring states clouded skies for much of the week. Second cutting of alfalfa hay neared completion in northern state. Third cutting was nearly complete in southern valleys. First cut other hay harvest also neared completion, with some to be cut a second time where irrigation water supplies permit. Grass seed harvest continued. Winter wheat harvest began. Spring wheat, malting barley were ripening in approach to harvest. Corn continued to show good growth with silage harvest nearing. Potato fields were in good condition. Onions remained in fair to good condition. Garlic fields were drying with harvest approaching. Cantaloup, sweet corn were nearing harvest. Mormon crickets, grasshoppers, drought continued to damage range, crop lands. Thinning and movement of range cattle was undertaken in response to deteriorating range. Irrigation water supplies were very short in some areas. Activities: Alfalfa hay harvest, other hay harvest, winter wheat harvest, irrigation, pest control, weed control.

NEW ENGLAND: Days suitable for field work: 6.2. Topsoil 15% very short, 23% short, 52% adequate, 10% surplus. Subsoil 11% very short, 21% short, 66% adequate, 2% surplus. Pasture feed 2% very poor, 6% poor, 23% fair, 51% good, 18% excellent. Maine Potatoes: Condition excellent/good. Rhode Island Potatoes: Condition good. Massachusetts Potatoes: Condition good. Maine Oats: Condition excellent/good. Maine Barley: Condition excellent/good. Field Corn: Condition good/fair. Sweet corn 99% emerged, 100% 2001, 100% avg.; 25% harvested, 20% 2001, 20% avg.; condition good/fair. Hay crop 1st 95% harvested, 95% 2001, 95% avg.; condition good/fair. 2nd 45% harvested, 65% 2001, 45% avg.; condition good. Third Crop Hay 5% harvested, 10% 2001, 5% avg.; condition good/excellent. Shade Tobacco: 20% harvested, 15% 2001, 30% avg.; condition good/fair. Broadleaf Tobacco 5% harvested, 15% 2001, 10% avg.; condition good/fair. Apples: Condition good/fair. Peaches 20% harvested, 5% 2001, 10% avg.; condition good/fair. Pears: Condition poor. Strawberries 99% harvested, 100% 2001, 99% avg.; condition good/fair. Massachusetts Cranberries: Fruit size avg; condition good/fair. Highbush blueberries 20% harvested, 25% 2001, 35% avg.; condition good/excellent. Maine Wild Blueberries: Condition good. Scattered showers fell across state last week, giving some relief to crops and farmers. Despite rain, drought-like conditions remain throughout most states. Growers continue to irrigate, where available. Activities: Planting vegetables; harvesting tobacco, strawberries, highbush blueberries, peaches, vegetables; weeding, cultivating fields; applying fertilizer; cutting dry hay, chopping haylage; mowing orchards, around fields; monitoring for pests, disease; irrigating, where necessary, available; applying fungicides, insecticides.

NEW JERSEY: Days suitable for field work 6.3. Topsoil 20% very short, 55% short, 25% adequate. Temperatures averaged below normal for much of the week, bringing some relief from last week's hot weather. Widely scattered showers, thunderstorms on Thursday did little to alleviate prevailing dry conditions. Hot, humid weather returned by Sunday, with heat indices in the 90's across much of the area. Activities: Cutting, baling hay, harvesting summer vegetables, irrigating fields, spraying. Corn 35% silked.; 55% fair, 45% good. Producers reported increased insect pressure in some fields due to recent weather conditions. Soybeans 30% blooming.; 23% fair, 77% good. Clear skies, light winds provided excellent drying conditions for hay. Livestock producers increased supplemental feeding of their herds due to dry pastures. Vegetable, fruit producers irrigated fields, scouted for pests. Sweet corn, tomato, cucumber harvest continued on schedule. Peach producers made good progress harvesting early varieties, with good quality, quantity reported. Apples were rated in mostly fair to good condition. Blueberries were rated in mostly good condition, with harvest continuing on schedule. Grapes were also rated in mostly good condition, although some vineyard producers reported minor pest problems due to recent weather conditions.

NEW MEXICO: Days suitable for field work 6.6. Topsoil 47% very short, 34% short, 16% adequate, 3% surplus. The week began with a plume of moisture over state from the Mexican monsoon. This helped produce substantial rainfall amounts at some locations on Monday, with a flash flood in Gallup. However, high pressure built over state from the north after that, producing higher temperatures, less widespread coverage of thunderstorms each day. Temperatures climbed into the triple digits at lower elevation stations of the south during the latter part of the week. Wind damage was reported as 18% light, 4% moderate, with no damage to 78% of the crops. Farmers spent the week cutting hay, plowing wheat acreage, spraying for insects, maintaining crops. Cotton, corn, peanut conditions improved and were found to be in mostly fair to excellent condition. Cotton squaring was 100% complete, 73% were setting bolls. Corn silked progressed to 85%, doughing to 46%. Irrigated sorghum remained in mostly fair to good condition, with dryland sorghum in mostly very poor to poor condition. Chile is doing well, with most of the crop in good to excellent condition. Alfalfa conditions declined slightly to 10% very poor, 15% poor, 40% fair, 26% good, 9% excellent. The 3rd cutting was at 82%, the 4th at 47%, and the 5th cutting was 7% complete. Cattle 12% very poor, 25% poor, 37% fair, and 26% good. Sheep conditions were listed as 5% very poor, 30% poor, 35% fair, 25% good, 5% excellent. The spotty rain has done little to help the dry conditions in many areas,

ranchers continued to haul water, provide supplemental feeding, cull their herds.

NEW YORK: Days suitable for fieldwork 5.5. Topsoil 14% very short, 37% short, 48% adequate, 1% surplus. Rainfall highly variable, temperatures averaged slightly below normal. Pasture feed 1% very poor, 33% poor, 40% fair, 22% good, 4% excellent. Corn 13% poor, 42% fair, 38% good, 7% excellent; early planting in full tassel, pollinating. Hay crops 5% poor, 36% fair, 45% good, 14% excellent. Alfalfa 2nd cut 84% complete, 75% 2001; 3rd growth slowed. Clover-timothy 2nd cut 70% complete, 62% 2001; 3rd growth poor. Winter wheat 52% harvested, 59% 2001. Oats 25% harvested. Soybeans 5% poor, 47% fair, 43% good, 5% excellent. Apples 16% poor, 23% fair, 54% good, 7% excellent. Grapes 15% poor, 9% fair, 74% good, 2% excellent. Peaches 44% poor, 15% fair, 33% good, 8% excellent. Pears 53% poor, 19% fair, 26% good, 2% excellent. Cabbage harvest underway. Processing snap bean harvest began, yields low.

NORTH CAROLINA: Days suitable for fieldwork 5.3. Soil 18% very short, 25% short, 51% adequate, 6% surplus. Widespread rain fell across most of state's during the week, improving soybean, peanut, tobacco conditions, easing the stress on pastures. However, much of the corn in the State is too advanced in development to have benefitted. Farmers in the northwestern portion of the State are reporting blue mold, black shank in their tobacco.

NORTH DAKOTA: Days suitable for fieldwork 6.0. Topsoil 16% very short, 35% short, 47% adequate, 2% surplus. Subsoil 16% very short, 30% short, 51% adequate, 3% surplus. A week of seasonably warm temperatures promoted crop development. Barley 84% milk, 86% 2001, 81% avg.; 43% turning, 39% 2001, 46% avg.; 1% combined, 1% 2001, 3% avg. Durum wheat 90% headed, 93% 2001, 87% avg.; 54% milk, 55% 2001, 55% avg.; 21% turning, 11% 2001, 17% avg.; 1% combined, 0% 2001, 0% avg. Hard red spring wheat 78% milk, 77% 2001, 77% avg.; 46% turning, 33% 2001, 41% avg. Oats 85% milk, 84% 2001, 79% avg.; 56% turning, 41% 2001, 44% avg. Canola 31% turning, 34% 2001, 35% avg.; 4% swathed, 3% 2001, 5% avg. Corn 14% milk to dough, 18% 2001, 15% avg. Dry edible beans 90% blooming, 90% 2001, 88% average; 32% podding, 54% 2001, 45% avg. Flax 97% blooming, 97% 2001, 93% avg.; 11% turning, 6% 2001, 12% avg. Potatoes 88% blooming, 97% 2001, 95% avg.; 83% rows filled, 96% 2001, 85% avg. Soybeans 18% fully podded, 4% 2001, 5% avg. Sunflower 11% blooming, 12% 2001, 12% avg. Durum wheat 4% very poor, 14% poor, 45% fair, 36% good, 1% excellent. Canola 7% very poor, 15% poor, 37% fair, 39% good, 2% excellent. Dry edible beans 8% very poor, 20% poor, 22% fair, 40% good, 10% excellent. Flaxseed 8% very poor, 16% poor, 33% fair, 40% good, 3% excellent. Potatoes 6% very poor, 12% poor, 25% fair, 40% good, 17% excellent. Sugarbeets 6% very poor, 16% poor, 32% fair, 38% good, 8% excellent. Sunflower 6% very poor, 10% poor, 31% fair, 46% good, 7% excellent. Hay 30% very poor, 29% poor, 32% fair, 9% good, 0% excellent. Pasture, range feeds 28% very poor, 27% poor, 30% fair, 14% good, 1% excellent. Stockwater supplies were 19% very short, 22% short, 58% adequate, 1% surplus.

OHIO: Days suitable for fieldwork 6.5 days. Topsoil 44% very short, 37% short, 19% adequate, 0% surplus. Corn 49% silked, 75% 2001, 68% avg.; 1% in dough, 14% 2001, 11% avg. Soybeans 65% blooming, 84% 2001, 83% avg.; 13% setting pods, 35% 2001, 32% avg. Oats 85% ripe, 88% 2001, 86% avg.; 35% harvested, 50% 2001, 45% avg. Alfalfa 2nd cutting complete 85%, 80% 2001, 82% avg.; 3rd cutting complete 10%, 13% 2001, 13% avg. Other hay 2nd cutting complete 63%, 59% 2001, 57% avg.; 3rd cutting complete 3%, 7% 2001, 5% avg. Summer apples 35% harvested, 45% 2001, 41% avg. Peaches 25% harvested, 30% 2001. Potatoes 2% harvested, 3% 2001, 7% avg. Cucumbers 23% harvested. Tobacco 14% topped, 11% 2001, 12% avg. Corn 22% very poor, 30% poor, 32% fair, 15% good, 1% excellent. Soybean 16% very poor, 28% poor, 37% fair, 17% good, 2% excellent. Hay 8% very poor, 23% poor, 40% fair, 27% good, 2% excellent. Pasture feed 20% very poor, 32% poor, 33% fair, 14% good, 1% excellent. Oats 3% very poor, 13% poor, 39% fair, 44% good, 1% excellent. Scattered storms pushed through the State last week, bringing heavy rainfall to some locations while other areas received little to no precipitation. The rain was a welcome sight to those who received it, but more is needed to help both crops, forages recover from the recent dry conditions. Activities: Harvesting fruits, vegetables, clipping pastures, spraying soybeans, harvesting oats, baling straw, making hay.

OKLAHOMA: Days suitable for fieldwork 6.1. Subsoil 25% very short, 34% short, 41% adequate, 0% surplus. Topsoil 20% very short, 37% short, 43% adequate, 0% surplus. Alfalfa 78% 3rd Cutting, 66% last week, 87% 2001, 64% avg.; 3% very poor, 6% poor, 30% fair, 54% good, 7% excellent; Other Hay 95% 1st cutting, 94% last week, 95% 2001, 92% avg.; 55% 2nd cutting, 43% last week, 41% 2001, 26% avg.; 4% very poor, 8% poor, 28% fair, 49% good, 11% excellent; Winter Wheat 91% plowed, 86% last week, 92% 2001, 86% avg.; 19% seedbed prepared, 8% last week, 9% 2001, 10% avg. Oats 89% plowed, 86% last week, 91% 2001, 82% avg.; 6% seedbed prepared, n/a last week, 7% 2001, 7% avg. Corn 94% silking, 92% last week, 94% 2001, 85% avg.; 65% dough, 55% last week, 56% 2001, 34% avg.; 25% mature, 15% last week, 16% 2001, 7% avg.; 1% very poor, 1% poor, 22% fair, 69% good, 7% excellent; Sorghum 94% emerged, 90% last week, 100% 2001, 100% avg.

Soybeans 64% blooming, 60% last week, 64% 2001, 59% avg.; 38% setting pods, 32% last week, 34% 2001, 29% avg.; 2% very poor, 6% poor, 39% fair, 46% good, 7% excellent; Watermelons 65% harvested, 37% last week, 67% 2001, 49% avg.; 0% very poor, 9% poor, 32% fair, 59% good, 0% excellent; Peanuts 70% setting pods, 46% last week, 48% 2001, 52% avg. Livestock 0% very poor, 3% poor, 29% fair, 57% good, 11% excellent; Livestock: Cattle auctions reported a decrease in marketings of steers, heifers less than 800 pounds. The price for feeder steers less than 800 pounds was down an average of 60 cents per cwt. from the previous week, averaged \$78.90 per cwt. The price for feeder heifers less than 800 pounds was also down, averaged \$74.80 per cwt.

OREGON: Days suitable for fieldwork 6.9. Topsoil 34% very short, 46% short, 20% adequate. Subsoil 36% very short, 45% short, 19% adequate. Barley harvested 37%, 19% previous week, 33% 2001, 21% 5 yr avg. Spring wheat 39% harvested, 30% 2001. Winter wheat 51% harvested, 31% previous week, 42% 2001, 31% 5 yr avg. Range, pasture 15% very poor, 24% poor, 38% fair, 19% good, 4% excellent. Activities: Small grain, grass seed harvest continued over much of State. Western state growers have been busy with grass seed harvest, while winter wheat coming on fast. Harvest of winter wheat about to start. Grain fields in Eastern state extremely dry. Harvesting of alfalfa hay continued through week with most operators on their second cutting. In Malheur county, strong winds caused a lot of wheat fields to lodge, which will slow down combining. Corn in Malheur County beginning to tassel. Some early field corn also tasseling in Washington County. Red clover past full bloom. Nurseries busy with watering, feeding, weeding. Some Easter lily growers on southern state coast applying lime, gypsum. Potted plants continued to be rotated, irrigation continued in Washington County. In Willamette Valley, sweet corn tasseling, setting ears, tomatoes ripening, onions doing well. Potatoes being harvested, bush beans picked. Jackson, Josephine counties reported gardens drying out due to heat, wind; sweet corn, tomatoes being picked. Early onions in Malheur County beginning to "go down". Late varieties of sweet cherries harvested in upper elevations of Wasco County. Fruit processing plants busy brining cherries. Apricot, peach harvest active in area. Lapsins harvest continued in upper Hood River Valley. Tart cherry harvest continued in Yamhill County. Some filbertworm sprays applied to hazelnut trees. Washington County cherry, raspberry harvest winding down while blueberries, blackberries continued to produce. Range, pasture reported to be in mostly poor to fair condition across State, with conditions significantly worse in north central, south western state. In Jackson County, range, pasture land reported as 95% very poor. Fires continued to burn, take their toll on pasture land. In Wasco County, livestock successfully removed ahead of a 12,000 acre fire. In Malheur, Harney County, cattle being moved early due to dry conditions. Livestock on irrigated land doing very well.

PENNSYLVANIA: Days suitable for fieldwork 6.0. Soil 33% very short, 49% short, 18% adequate. Corn 54% silk, 75% 2001, 60% avg.; 11% dough, 26% 2001, 15% avg. Corn height 63 inches, 69 inches 2001, 61 inches avg.; 8% very poor, 19% poor, 35% fair, 32% good, 6% excellent. Barley 94% harvested, 96% 2001, 97% avg. Winter wheat 96% harvested, 98% 2001, 91% avg. Oats 79% yellow, 80% 2001, 87% avg.; 69% ripe, 78% 2001, 62% avg.; 41% harvested, 35% 2001, 32% avg.; 1% very poor, 7% poor, 39% fair, 46% good, 7% excellent. Soybean 3% very poor, 10% poor, 37% fair, 34% good, 16% excellent. Potatoes 9% harvested, 9% 2001, 4% avg. Alfalfa 2nd cutting 86% complete, 77% 2001, 75% avg.; 3rd cutting 29% complete, 37% 2001, 22% avg. Timothy clover 1st cutting 98% complete, 97% 2001, 96% avg.; 2nd cutting 32% complete, 29% 2001, 30% avg. Peach 3% very poor, 4% poor, 30% fair, 63% good, 33% harvested complete, 39% 2001, 25% avg. Apple 1% very poor, 2% poor, 37% fair, 60% good, 5% harvested complete, 8% 2001, 7% avg. Quality of hay made 1% very poor, 11% poor, 22% fair, 45% good, 21% excellent. Pasture feeds 21% very poor, 32% poor, 29% fair, 16% good, 2% excellent. Activities: Harvesting small grains; harvesting fruits, vegetables; harvesting forages, baling straw; fixing fences; machinery maintenance; cleaning barns; hauling, spreading manure; caring for livestock; scouting fields; spraying herbicides, insecticides; fertilizing, attending farm meetings.

SOUTH CAROLINA: Days suitable for fieldwork 6.2. Soil 43% very short, 44% short, 13% adequate. Corn 100% silked, 99% 2001, 100% avg.; 91% doughed, 81% 2001, 85% avg.; 50% matured, 34% 2001, 42% avg.; 8% harvested, 2% 2001, 6% avg.; 37% very poor, 35% poor, 22% fair, 6% good. Soybeans 100% emerged, 100% 2001, 100% avg.; 44% bloomed, 43% 2001, 37% avg.; 28% pods set, 28% 2001, 19% avg.; 12% very poor, 28% poor, 45% fair, 21% good. Sorghum 78% headed, 68% 2001, 71% avg.; 46% turned color, 44% 2001, 46% avg.; 4% matured, 4% 2001, 4% avg.; 5% very poor, 25% poor, 33% fair, 37% good. Cotton 96% squared, 85% 2001, 95% avg.; 54% bolls set, 44% 2001, 54% avg.; 5% very poor, 17% poor, 59% fair, 19% good. Peanuts 95% pegged, 87% 2001, 76% avg.; 7% very poor, 14% poor, 39% fair, 39% good, 1% excellent. Pastures 20% very poor, 40% poor, 31% fair, 9% good. Sweet potatoes 6% poor, 52% fair, 42% good. Tobacco 99% topped, 98% 2001, 98% avg.; 33% harvested, 30% 2001, 31% avg.; 10% very poor, 21% poor, 36% fair, 30% good, 3% excellent. Hay 76% harvested, 69% 2001, 79% avg.; 17% very poor, 32% poor, 40% fair, 11% good. Peaches 66% harvested, 67% 2001, 68% avg.; 3% poor, 34% fair, 49% good, 14% excellent. Apples 34% fair, 64% good, 2% excellent. Snap beans 99% harvested, 98% 2001, 97% avg. Watermelons 95% harvested, 93% 2001. Tomatoes 99% harvested, 99% 2001, 98% avg. Cantaloups

96% harvested, 97% 2001, 95% avg. Livestock 1% very poor, 9% poor, 52% fair, 38% good.

SOUTH DAKOTA: Days suitable for field work 5.9. Topsoil 49% very short, 35% short, 16% adequate. Subsoil 56% very short, 32% short, 12% adequate. Feed supplies 36% very short, 33% short, 30% adequate, 1% surplus. Stock water supplies 46% very short, 25% short, 28% adequate, 1% surplus. Winter rye 20% very poor, 38% poor, 18% fair, 23% good, 1% excellent; 100% ripe, 83% 2001, 91% avg.; 97% ripe, 60% 2001, 84% avg.; 55% harvested, 6% 2001, 31% avg. Barley 89% turning color, 86% 2001, 87% avg.; 80% ripe, 40% 2001, 49% avg. Oats 98% turning color, 89% 2001, 89% avg.; 87% ripe, 48% 2001, 58% avg. Spring Wheat 98% turning color, 87% 2001, 87% avg.; 85% ripe, 40% 2001, 47% avg. Sunflower 32% very poor, 41% poor, 23% fair, 4% good. Corn cultivated twice 100%, 93% 2001, 95% avg. Corn tassled 77%, 72% 2001, 72% avg. Sunflower 13% blooming, 13% 2001, 18% avg. Sunflower ray flowers dry 3%, 0% 2001, 1% avg. Sunflower bracts yellow 1%, 0% 2001, 0% avg. Cattle 6% very poor, 9% poor, 36% fair, 43% good, 6% excellent. Sheep 3% very poor, 5% poor, 31% fair, 52% good, 9% excellent. Range, pasture 46% very poor, 32% poor, 15% air, 7% good. Alfalfa hay 53% very poor, 29% poor, 12% fair, 6% good. Alfalfa hay 2nd cutting harvested 66%, 66% 2001, 62% avg.; 3rd cutting harvested 3%, 3% 2001, NA% avg. Other hay harvested 81%, 81% 2001, 76% avg. High temperatures were felt again last week, accelerating small grain harvest. The continued hot weather, poor range and pasture conditions has put stress on livestock but producers feel livestock are fairing well considering the conditions. Soil moisture conditions remain mostly unchanged from last week with a slight improvement in topsoil moisture.

TENNESSEE: Days suitable for fieldwork 6.0. Topsoil 13% very short, 31% short, 54% adequate, 2% surplus. Subsoil 18% very short, 33% short, 47% adequate, 2% surplus. Tobacco 36% topped, 46% 2001, 40% avg.; 3% very poor, 13% poor, 30% fair, 45% good, 9% excellent. Alfalfa hay 91% 2nd cutting, 99% 2001, 95% avg. Pastures 9% very poor, 21% poor, 34% fair, 32% good, 4% excellent. Hot, dry conditions continued across the State last week with daily temperatures near or above normal levels, only scattered afternoon showers or thunderstorms. Crop conditions remained mostly fair-to-good for all crops despite the heat, lack of moisture. There were, however, some tobacco fields in Upper Middle state that were damaged by very heavy rainfall last week. Fruit, vegetable growers reported problems with insects, primarily Japanese Beetles, Junebugs. Tobacco farmers made good progress with topping in spite of dealing with problems caused by black shank, tomato spotted wilt virus. Cattle producers were applying chemicals to control flies, treating isolated cases of pinkeye.

TEXAS: Agricultural Summary: Conditions returned to mostly typical for this time of year. Hot, windy days with some isolated showers were reported in portions of the Plains, North state. Coastal areas experienced a few widely scattered sea breeze showers as the result of a southerly air flow. In late week, a few storms with localized hail were reported in portions of the Low Rolling Plains, Edwards Plateau. Developing crops continued to make good to fair progress across the state with the aid of rainfall earlier this month. Harvest of summer crops resumed in most locations as fields dried out. Irrigation demands were high in many areas due to hot, windy days. Many dryland operations continued to benefit from rainfall earlier this month however, in some areas where rains were light, crops were wilting during the day. Haying operations moved forward as fields dried across the state. Some areas reported an abundance of hay for the first time in several years. Land preparation moved ahead in many areas that had been previously too wet. Supplemental feeding continued to decline in areas where pasture regrowth was adequate, but remained necessary in drier locations. Some areas missed by heavier rains earlier were still considered to be under drought conditions. Insect pressure remained high especially from grasshoppers. Armyworm populations continued to grow in some areas. Small Grains: Land preparation moved ahead as drying out became adequate in most areas. Corn: Progress, development of irrigated corn continued across the Plains, North state. Irrigation was in full swing in many of these locations, especially in the drier locations. Corn root worm, corn borer populations continued to increase in some areas. Harvest in southern locations resumed as drying-out allowed. Aflatoxin has been a problem in some fields. Corn 55% of normal compared with 60% 2001. Cotton: Irrigated cotton continued to make fair to good progress across areas of the Plains. Dryland cotton was responding well in areas where rainfall has been adequate. However, some dryland cotton was wilting during the day as the result of moisture stress, especially in areas where earlier rainfall was light. Fleahoppers continued to cause problems in some locations while bollworm infestations have been found in a few areas. Defoliation, harvest continued to move forward in southern locations. Cotton 67% of normal compared with 48% 2001. Sorghum: Progress, development continued across the state especially in areas where earlier rainfall was adequate. Harvest moved ahead in central, southern locations as conditions for harvest had greatly improved. Sprouting in the head continued to be a problem for some producers in a few locations where fields remained wet. Sorghum 61% of normal compared with 44% 2001. Peanuts: Peanuts made good progress across the state. Pegging, setting pods continued at a rapid pace. Many fields have lapped in the middles ahead of normal due to ideal growing conditions. Irrigation remained active as most peanuts were at the peak water usage stage. Dryland peanuts were fairing well in most areas. Peanut 84% of normal compared to 74% 2001. It was announced the shelling plant at Pearsall will close. Soybeans: Progress,

development remained mostly satisfactory across the state. A few beans continued to show sign of moisture stress in a few locations across the Plains. Harvest continued in southern locations and a few North state locations. Rice: Rice condition was favorable as a few fields remained under constant flood. Many fields of rice were turning color, some fields were being drained. Harvest began in isolated locations for early planted rice. Rice 87% of normal compared to 86% 2001. Commercial Vegetables, Fruit, Pecans In the Rio Grande Valley land preparation continued in most locations however, isolated showers slowed progress for some producers. Other preparations for fall planting continued. In the San Antonio-Winter Garden harvest of remaining melons, cucumbers continued. Land preparation for fall planting was active with the aid of adequate soil moisture. In East state growth, development of sweet potatoes continued. Harvest of remaining melons, peas, tomatoes, sweet corn was winding down. In the High Plains growth, development continued for earlier planted potatoes, carrots, cucumbers, pumpkins, onions. Watermelons, cantaloupes made good progress, harvest increased in some areas. Grape harvest began in areas of the Trans Pecos Region. Pecans: Good nut development continued in most areas of the state. With recent rainfall, many producers have reported extremely good filling. Scab has become a problem for some producers. Peaches: Harvest was winding down across the state. Range, Livestock: Isolated showers brought increased benefit to some range and pastures during the week as pasture recovery continued in many areas of the state. Hay baling was active in most areas where earlier rains fell. Brief showers interrupted some baling operations. Supplemental feeding continued to decline in most areas except where earlier rains were not adequate. Armyworms, grasshoppers continued to cause severe damage in some locations, however, control measures were in progress in some areas. In a few drought stricken areas, range and pastures remained dormant. Much concern was being expressed over the spread of West Nile Virus in several locations.

UTAH: Days suitable for field work 7. Topsoil 37% very short, 44% short, 19% adequate. Subsoil 33% very short, 40% short, 27% adequate. Winterwheat 20% harvested, 35% 2001, 32% avg.; 17% very poor, 19% poor, 364% fair, 24% good, 4% excellent. Spring wheat 10% harvested, 21% 2001, 16% avg.; 8% very poor, 12% poor, 46% fair, 31% good, 3% excellent. Barley 15% harvested, 23% 2001, 23% avg.; 3% very poor, 14% poor, 37% fair, 35% good, 11% excellent. Oats 91% headed, 91% 2001, 88% avg.; 10% harvested for grain, 20% 2001, 8% avg.; 87% harvested for hay or silage, 82% 2001, 71% avg. Corn 37% tasseled, 40% 2002, 24% avg.; 2% very poor, 7% poor, 38% fair, 45% good, 8% excellent; height 66 inches, 64 inches 2001, 59 inches avg. Alfalfa hay 2nd cutting 78%, 74% 2001, 61% avg.; 3rd cutting 8%, 20% 2001, 4% avg. Other hay cut 90%, 92% 2001, 80% avg. Tart cherries picked 100%, 91% 2001, 63% avg. Peaches picked 17%, 8% 2001, 2% avg. Cattle 2% very poor, 10% poor, 39% fair, 43% good, 6% excellent. Twenty-five percent of cattle have been removed from summer ranges and 24% of sheep have been removed. Sheep 2% very poor, 8% poor, 38% fair, 47% good, 5% excellent. Range, pasture feed 31% very poor, 33% poor, 30% fair, 6% good. Irrigation water supplies 38% very short, 40% short, 22% adequate. Stock water supplies 34% very short, 45% short, 21% adequate. State farmers, ranchers were busy irrigating crops, harvesting hay, sweet corn, other vegetables, small grains, fruit. Temperatures in state ranged from the 90s to the low 100s, well-needed rainstorms were welcomed throughout most of the state. Yellow Stripped army worms continue to cause crop damage in northern state. Rainstorms have improved pastures, rangeland throughout the state, but conditions were still poor. Southern counties reported the drought has been so severe that even sagebrush has died. Irrigation water supplies in the short to very short categories are at 78%, up 23 points from 2001, 54 points from the 5-yr avg. Stock water supplies in short to very short categories are at 79%, up 36 points from 2001, 59 points from the 5-yr avg. Ranchers are moving cattle off BLM, Forest Service summer range six to eight weeks earlier than normal in some areas. Some ranchers have already contracted calves for sale, are looking for alternative feeds for mother cows.

VIRGINIA: Days suitable for fieldwork 5.0. Topsoil 27% very short, 34% short, 37% adequate, 2% surplus. Subsoil 32% very short, 41% short, 26% adequate, 1% surplus. Pasture 24% very poor, 29% poor, 30% fair, 16% good, 1% excellent. Livestock 2% very poor, 7% poor, 35% fair, 50% good, 6% excellent. Other hay 15% very poor, 27% poor, 35% fair, 21% good, 2% excellent. Alfalfa Hay 3% very poor, 18% poor, 41% fair, 31% good, 7% excellent. Corn 19% very poor, 33% poor, 35% fair, 11% good, 2% excellent. Corn 83% silked, 76% 2001, 73% 5-yr avg.; 55% dough, 43% 2001, 33% 5-yr avg.; 21% dent, 11% 2001, 5% 5-yr avg. Soybeans 17% very poor, 27% poor, 33% fair, 21% good, 2% excellent; 39% blooming, 36% 2001, 29% 5-yr avg. Soybeans 20% setting pods, 10% 2001, 7% 5-yr avg. Flue tobacco 5% poor, 35% fair, 42% good, 18% excellent. Flue tobacco 1% harvested, 9% 2001, 5% 5-yr avg. Burley tobacco 20% poor, 39% fair, 30% good, 11% excellent. Dark Fire Cured tobacco 16% poor, 38% fair, 41% good, 5% excellent. Sun tobacco 43% poor, 7% fair, 50% good. Peanuts 2% very poor, 8% poor, 23% fair, 63% good, 4% excellent. Peanuts 76% pegged, 90% 2001, 83% 5-yr avg. Cotton 2% very poor, 21% poor, 26% fair, 45% good, 6% excellent; 100% squaring, 100% 2001, 98% 5-yr avg.; 84% setting bolls, 70% 2001, 64% 5-yr avg. Summer Potatoes 96% harvested, 79% 2001, 78% 5-yr avg. Summer Apples 3% very poor, 21% poor, 28% fair, 42% good, 6% excellent; 56% harvested, 55% 2001, 35% 5-yr avg. Peaches 20% very poor, 30% poor, 19% fair, 26% good, 5% excellent; 55% harvested, 35% 2001, 35% 5-yr avg. Many areas in state experienced some much needed rainfall this week, strongly improving topsoil moisture, reducing

the stress on most crops. Water conditions across the state are improving, but are still very low causing farmers to continue hauling water to livestock. Although pasture growth has improved with this week's scattered rainfall, the supply is still limited, farmers continue to feed their livestock grain for now. Soybeans have flowered and are now filling pods. They seem to be benefitting from the late July moisture. Last week's rainfall is delaying the harvest of early silage corn. Farmers of later planted corn fields are hoping for increased crop growth from the recent rains. Activities: Marketing yearlings, lambs, scouting for corn ear worms, completing the potato harvest.

WASHINGTON: Days suitable for fieldwork averaged 6.9. Topsoil 9% very short, 45% short, 46% adequate. Subsoil 40% short, 60% adequate. Irrigation water supply was 5% short, 95% adequate. The highest temperature in the state was 106° in Hanford. The lowest temperature in the state was 46° in Stampede Pass. Winter wheat 5% poor, 35% fair, 50% good, 10% excellent; 16% harvested. Spring wheat 6% poor, 49% fair, 42% good, 3% excellent; 6% harvested. Winter wheat yield reports in Walla Walla continued to indicate less production than anticipated. Barley 1% very poor, 6% poor, 45% fair, 41% good, 7% excellent; 4% harvested. Field corn 9% fair, 91% good. Dry edible bean 2% poor, 5% fair, 92% good, 1% excellent; Dry peas 12% harvested. Potato 10% fair, 80% good, 10% excellent, 19% harvested. Potato growers in Skagit County were killing vines. Hay and other roughage conditions were 7% short, 91% adequate and 2% surplus. Alfalfa 2nd cutting 83% complete; 3rd cutting 15% complete. Range, pasture feeds 2% very poor, 33% poor, 52% fair, 13% good. Gladiola growers in Grays Harbor reported their first blooms of the season. Blueberry, raspberry harvest was in full swing with berries ripening rapidly due to the additional heat units.

WEST VIRGINIA: Days suitable for fieldwork 4.5. Topsoil 1% very short, 15% short, 80% adequate, 4% surplus compared to 3% very short, 28% short, 68% adequate, 1% surplus last week and 1% very short, 8% short, 68% adequate, 23% surplus in 2001. Corn 2% very poor, 5% poor, 20% fair, 65% good, 8% excellent; 65% silked, 38% last week, 70% 2001, 63% 5-yr avg.; doughing 15%, 2% last week, 20% 2001, 12% 5-yr avg. Oats 2% very poor, 3% poor, 40% fair, 45% good, 10% excellent; 45% harvested, 38% last week, 52% 2001, 47% 5-yr avg. Soybeans 1% very poor, 4% poor, 15% fair, 75% good, 5% excellent; 60% blooming, 42% last week, 50% 2001, 58% 5-yr avg.; 17% podding, 7% last week, 22% 2001, 23% 5-yr avg. Wheat 99% harvested for grain, 99% last week, 90% 2001, 93% 5-yr avg. Tobacco, 3% poor, 20% fair, 65% good, 12% excellent; 15% topped, 0% last week, 8% 2001, 14% 5-yr avg. Hay 5% poor, 40% fair, 50% good, 5% excellent; 2nd cut 45%, 38% last week, 32% 2001, 40% 5-yr avg. Apple 100% fair. Peach 100% fair. Cattle, calves 1% poor, 14% fair, 80% good, 5% excellent. Sheep, Lambs, 10% fair, 85% good, 5% excellent. Weather permitting, farmers continued with 2nd cutting hay, harvesting small grains, vegetables.

WISCONSIN: Days suitable for fieldwork 5.6. Soil 21% very short, 37% short, 41% adequate, 1% surplus. Throughout last week, isolated rain showers served a much-needed drink to state thirsting fields. However, several areas, where the anticipated rain never fell, remained dry. Although the timely rains helped the corn, soybean crop at a critical point in their development, farmers called for more healthy helpings of moisture.

WYOMING: Days suitable for fieldwork 6.7. Topsoil 67% very short, 29% short, 4% adequate. Subsoil 69% very short, 30% short, 1% adequate. Stock water supply 52% very short, 30% short, 18% adequate. Barley 13% very poor, 13% poor, 26% fair, 47% good, 1% excellent. Spring wheat 52% very poor, 33% poor, 10% fair, 5% good. Oats 31% very poor, 19% poor, 30% fair, 20% good. Corn 8% very poor, 22% poor, 36% fair, 33% good, 1% excellent. Sugarbeet 8% very poor, 12% poor, 26% fair, 49% good, 5% excellent. Dry beans 9% very poor, 14% poor, 34% fair, 40% good, 3% excellent. Barley turning color 55%, 76% 2001, 77% avg.; 29% mature, 43% 2001, 38% avg.; 8% harvested, 23% 2001, 11% avg. Spring wheat 43% turning color, 46% 2001, 62% avg.; 26% mature, 14% 2001, 21% avg.; 10% harvested, 3% 2001, 5% avg. Oats 76% headed, 81% 2001, 87% avg.; 38% turning color, 44% 2001, 49% avg.; 16% mature, 12% 2001, 17% avg. Dry Beans 60% bloom, 74% 2001, 77% avg.; 28% setting pods, 37% 2001, 31% avg. Corn 59% tasseled, 76% 2001, 70% avg.; 19% silked, 18% 2001, 28% avg. Winter wheat 96% mature, 87% 2001, 94% avg.; 83% harvested, 62% 2001, 62% avg. Alfalfa 1st cutting 96%, 98% 2001, 96% avg.; 2nd cutting 15%, 28% 2001, 17% avg. Other hay 60% harvested, 55% 2001, 58% avg. Range, pasture feed 53% very poor, 24% poor, 19% fair, 4% good. Cattle 1% very poor, 9% poor, 39% fair, 51% good. Calves 6% poor, 33% fair, 61% good. Sheep c 1% very poor, 9% poor, 38% fair, 52% good. Lambs 4% poor, 39% fair, 57% good.

International Weather and Crop Summary

July 21 - 27, 2002

International Weather and Crop Highlights and Summaries provided by USDA/WAOB

HIGHLIGHTS

SOUTH AMERICA: Heavy showers returned to southern Brazil, increasing moisture for winter wheat development but likely causing some localized flooding.

CANADA: Scattered showers brought only localized relief to reproductive to filling spring grains and oilseeds in the western Prairies.

MEXICO: Drier weather prevailed across the Rio Grande watershed and the Southern Plateau corn belt, but short-term moisture supplies remained adequate for pastures and summer crops.

AUSTRALIA: Light showers benefited winter grains in western Australia, while drought continued to grip much of eastern Australia.

EASTERN ASIA: Showers and somewhat milder weather benefited corn and soybeans in most growing areas of the North China Plain and Manchuria.

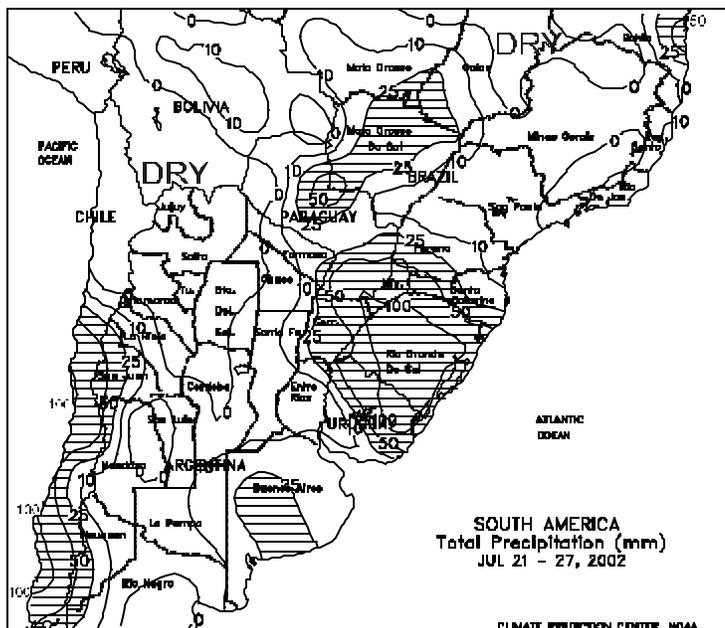
SOUTHEAST ASIA: Hot, dry weather stressed corn and rice in Indochina, while tropical showers continued to cause flooding in the northern Philippines.

SOUTHASIA: The monsoon circulation again weakened, bringing hot dry weather to already stressed crops in central and western India.

EUROPE: A slow-moving storm brought unseasonably heavy rain to Italy and southeastern Europe, aiding summer crops, while dry weather provided excellent conditions for winter grain maturation in England and France.

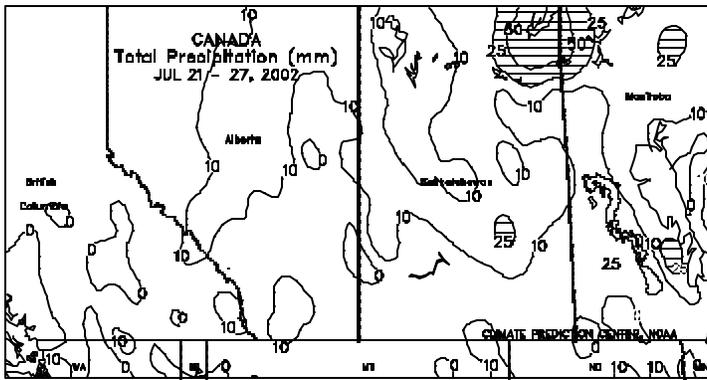
FSU-WESTERN: Scattered showers and somewhat cooler weather reduced stress on summer crops in Ukraine and Southern Region in Russia.

FSU-NEW LANDS: Light, scattered showers maintained moisture supplies for reproducing to filling spring grains.



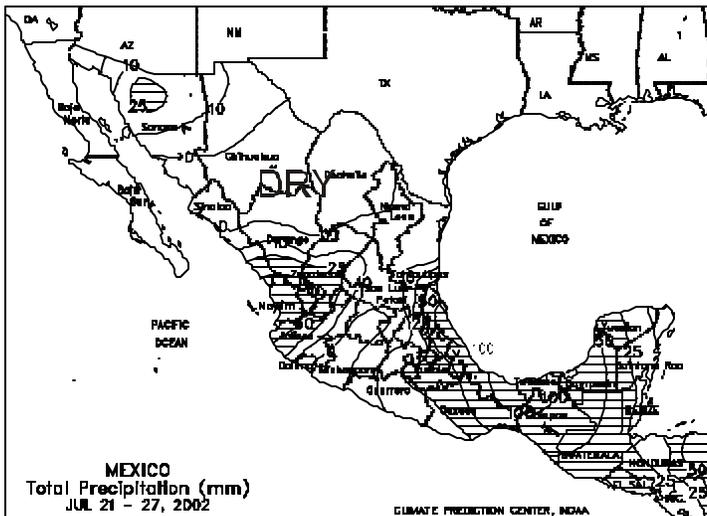
SOUTH AMERICA

Heavy rain (50-100 mm or greater) returned to Rio Grande do Sul, Brazil and neighboring locations in Paraguay and Uruguay, providing abundant moisture for winter wheat but likely causing localized flooding. Elsewhere in southern Brazil, lighter showers (10-25mm or more) boosted moisture reserves in wheat areas from Santa Catarina to southern Sao Paulo while farther north, mostly dry, warmer-than-normal weather (temperatures averaging 3-4 degrees C above normal, with highs in the upper 20s and lower 30s degrees C) covered crop areas of northern Parana, western Sao Paulo, and eastern Mato Grosso do Sul. This region has been warmer and drier than normal for much of the season, and additional rain is needed as winter wheat enters reproduction. Elsewhere in Brazil, the warmth and dryness supported coffee harvesting. According to independent analyst Safra e Mercado, Brazil's coffee was 69 percent harvested by July 28, slightly ahead of last year's pace. Showers (10-25 mm) lingered in cocoa areas along the coast of Bahia, likely hampering mid-year harvesting. In Argentina, moderate showers (10-25 mm or more) boosted moisture reserves for winter wheat establishment in the main crop areas of southern Buenos Aires and La Pampa, with lighter showers (10 mm or less) falling in the main crop areas to the north. Temperatures averaging 1 to 2 degrees C above normal aided wheat germination and establishment, especially in the traditionally cooler locations in the south. However, a late-week freeze slowed crop development in western and southern growing areas. According to the Argentine Agricultural Secretariat, winter wheat was reportedly 77 percent planted as of July 19, compared with 76 percent last year.



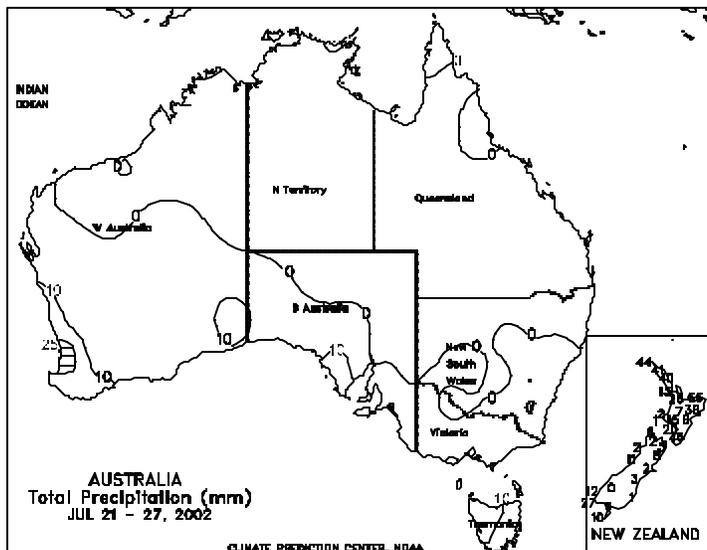
CANADA

Showers (greater than 10 mm) brought localized relief to reproductive and filling spring crops across northern Saskatchewan. However, except for a few locations in Alberta, most other western growing areas remained dry, with unseasonable warmth (temperatures averaging 1-3 degrees C above normal, with highs reaching the middle 30s degrees C) maintaining high crop moisture demands and evapotranspiration rates. A late-week frontal passage helped to lower temperatures to more seasonable levels (highs in the 20s degrees C), but shower activity was still sporadic. In the eastern Prairies, scattered showers (10 mm or more) brought some relief to portions of northeastern Saskatchewan, but mostly dry weather persisted elsewhere. Summer warmth (highs in the lower 30s degrees C) maintained high crop moisture demands in the eastern Prairies but temperatures generally stayed below stressful levels. Moderate to heavy rain is urgently needed across the Prairies to prevent additional declines in yield potential as crops continue to advance through the reproductive and filling stages of development. Crops in portions of the west have already suffered irreversible damage but sections of the south and east can still benefit from timely showers and a return to more seasonable temperatures. In eastern Canada (southern portions of Ontario and Quebec), scattered showers (10-25 mm or more) benefited reproductive corn and soybeans in most major growing areas, but likely resulted in some delays in winter wheat harvesting. Temperatures averaged near normal, with highs ranging in the middle and upper 20s degrees C in the southern growing areas of Ontario, and the upper teens and low 20s degrees C in northeastern Ontario and Quebec for most of the period. However, highs briefly reached the lower to middle 30s degrees C early in the week.



MEXICO

Drier weather (rainfall less than 10 mm) and near-normal temperatures prevailed across the Rio Grande watershed of northern Mexico, but short-term moisture supplies remained adequate due to showers received the previous 2 to 3 weeks. However, long-term moisture deficits still exist in the region. Drier weather (rainfall less than 10 mm) also prevailed across the Southern Plateau corn belt, where soil moisture remained adequate for vegetative to reproductive corn. In northwestern Mexico, widespread light to moderate rain (5-40 mm) increased irrigation supplies in the western Sierra Madre and favored pastures and summer crops in Chihuahua. Meanwhile, moderate to heavy showers (50-160 mm) fell across Veracruz, boosting moisture supplies for corn, sugarcane, and coffee, but mostly dry weather (rainfall less than 10 mm) prevailed in the Yucatan Peninsula. In Honduras, seasonable showers (10-35 mm) maintained adequate moisture supplies. Temperatures averaged near normal across most of Mexico, maintaining typical irrigation demands.

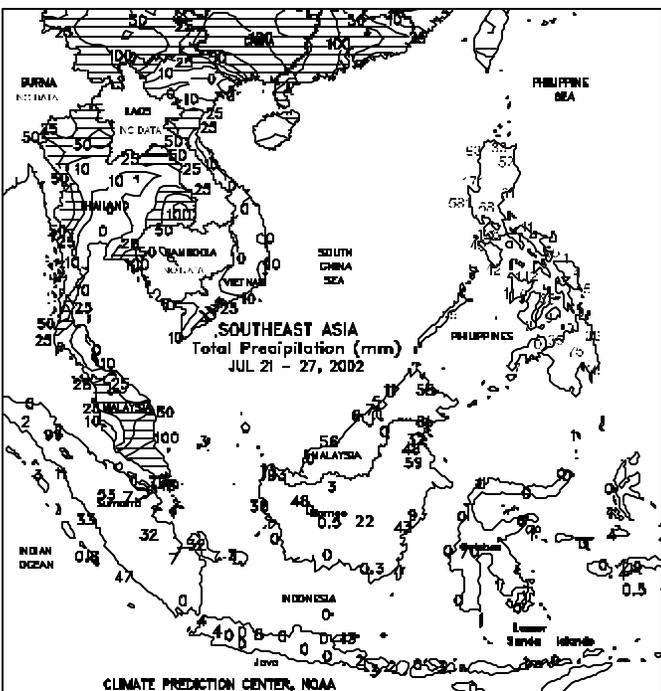
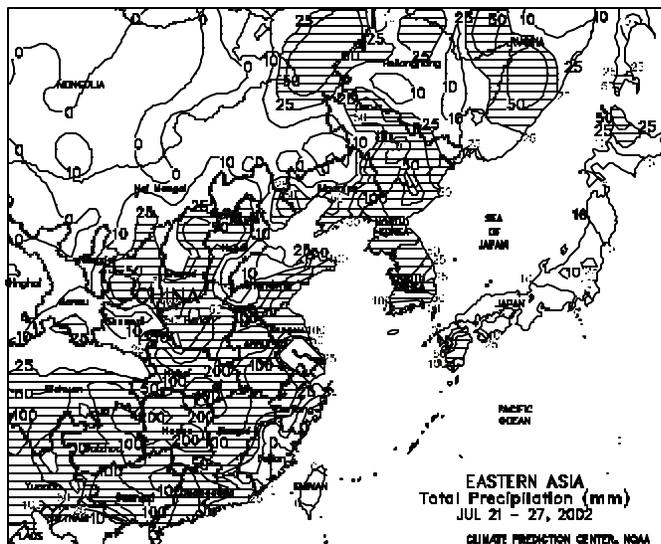


AUSTRALIA

In Western Australia, showers (5-17 mm) maintained adequate moisture supplies for winter grains in westernmost growing areas. Lighter, albeit beneficial, showers (2-8 mm) fell across eastern portions of this region and in parts of South Australia, helping vegetative winter wheat and barley. In contrast, dry weather in northern Victoria, New South Wales, and southern Queensland provided no relief from the drought gripping much of eastern Australia. Temperatures in major winter grain producing areas across the continent averaged about 2 to 3 degrees C above normal, except in northern New South Wales and southern Queensland, where seasonable temperatures prevailed. In New Zealand, showers (2-28 mm) kept winter grains well watered.

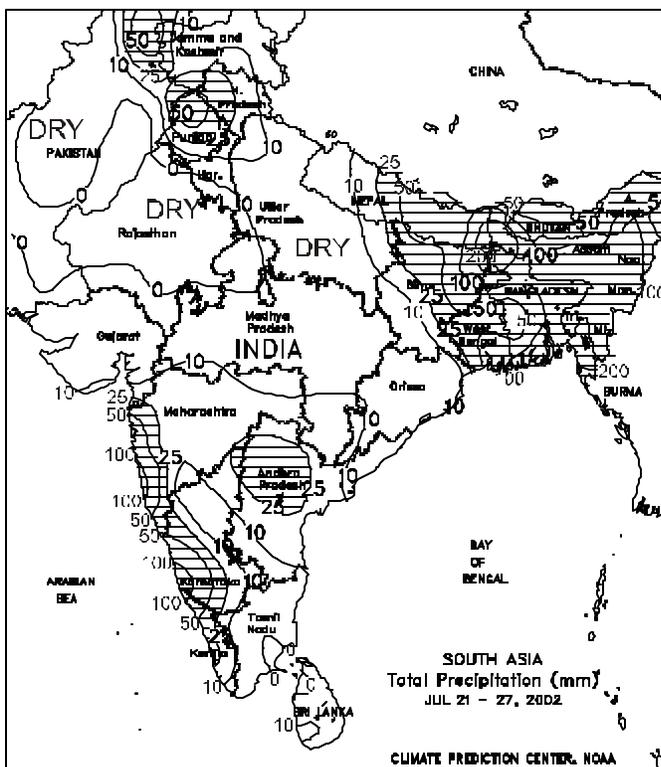
EASTERN ASIA

Scattered showers (10-25 mm or more) continued across the North China Plain and Manchuria, increasing moisture reserves for corn and soybeans in most major growing areas. However, dry pockets developed in Shandong and northern Liaoning, following last week's beneficial rainfall. The weather was cooler than in recent weeks, with highs in the North China Plain and southern Manchuria mostly in the upper 20s and lower 30s degrees C. Temperatures were somewhat lower in northern Manchuria (Heilongjiang), where growing conditions remained favorable. In southern China, locally heavy rainfall (100-200 mm or more) likely renewed flooding along the Yangtze River. The heavy rain stretched northeastward into southern sections of the North China Plain (northern Jiangsu), possibly causing localized flooding in the Huai River system. The return to heavy rainfall likely disrupted harvesting of early double-crop rice and planting of late double-crop rice. Drier weather dominated major rice and sugarcane areas along the coast (eastern Guangdong to southern Jiangsu). Elsewhere, favorably drier weather aided rice development in Japan following weeks of excessive rainfall. Wet (25-100 mm), somewhat cooler-than-normal weather continued over the Korean Peninsula, possibly causing additional local flooding.



SOUTHEAST ASIA

Hot, dry weather reduced available moisture for corn in central Thailand and rice in Vietnam. Scattered showers (25-50 mm) maintained moisture supplies for main-season rice in eastern and northern Thailand. A tropical depression off the western coast of Luzon, Philippines continued to bring heavy rain (50-200 mm or more) and flooding to most of Luzon. Showers enhanced by the tropical depression brought moderate showers to the rest of the Philippines favoring rice and corn. Shower activity increased in peninsular Malaysia and Sumatra, providing more moisture to oil palm and plantation crops. In Java, Indonesia, scattered, light showers provided additional moisture to irrigated second-season rice.



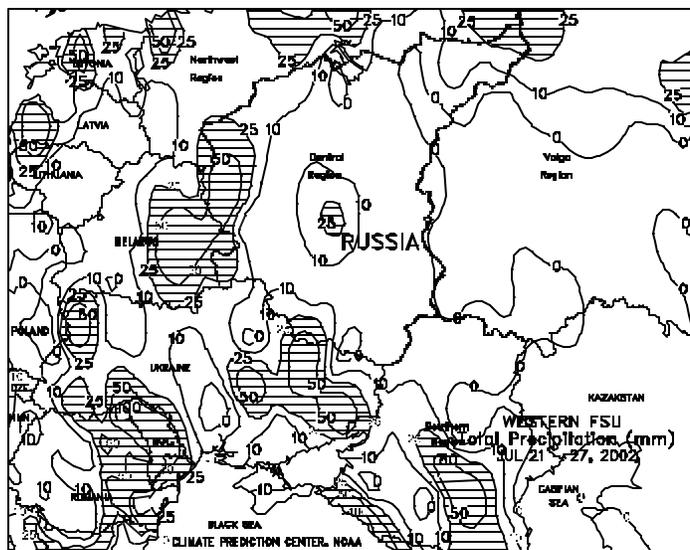
SOUTH ASIA

Rainfall continued well-below normal throughout most of India, with the exception of the eastern Indian states and Bangladesh. The driest areas have been the Gangetic Plain and the western states. Irrigation supplies are decreasing for rice in Uttar Pradesh, while torrential rainfall (50-200 mm) flooded rice areas in Bangladesh and the eastern Indian states. Hot, dry weather (middle to upper 30s degrees C) in western states continued to stress oilseeds. Typically the monsoon reaches into Pakistan by the end of July, but this season's progress has been erratic. The weaker monsoon has been attributed to warming Pacific sea surface temperatures, coinciding with the developing El Niño.



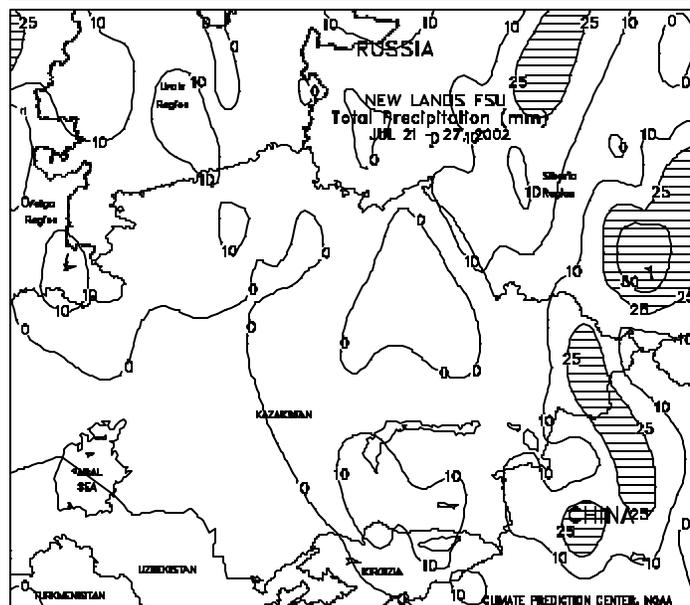
EUROPE

Mostly dry weather (less than 5 mm) provided excellent weather for winter grain maturation and harvesting across England and France. Scattered showers (10-30 mm or more) slowed winter grain maturation and early harvesting across northern and southeastern Germany, Denmark, northeastern Poland, and southern Sweden. Drier weather (less than 10 mm) prevailed elsewhere in Poland and Germany, aiding fieldwork. Scattered showers (5-20 mm) provided some moisture for vegetative to reproductive summer crops in the Czech Republic, Slovakia, and Hungary, but more rain is needed in Hungary as corn approaches reproduction. Late in the week, a slow-moving surface low pressure system developed in the eastern Mediterranean Sea, bringing unseasonably heavy rain (10-50 mm) to central and southern Italy and the southern Balkans, favoring summer crops and boosting irrigation supplies for upcoming winter grain season. The heaviest rain (30-100mm) fell in northern and central Greece, increasing moisture for reproductive cotton. The system also produced beneficial rain (10-40 mm) for reproductive corn in Bulgaria, Serbia, and eastern Romania, but southwestern Romania did not receive more than 10 mm. In southern Spain, cool, dry weather continued to reduce irrigation requirements for summer crops. Temperatures averaged near to slightly below normal across most of Europe, reducing crop water use for irrigated and rainfed summer crops.



FSU-WESTERN

In Ukraine and Southern Region in Russia, hot weather (maximum temperatures between 30-34 degrees C) at the beginning of the week was replaced by cooler air (maximum temperatures between 18-26 degrees C) by midweek. Scattered showers and thunderstorms (10-40 mm or more) accompanied the cooler weather, boosting moisture supplies for these crops. Although the cooler weather during midweek eased stress on summer crops, warmer weather (maximum temperatures between 29-37 degrees C) returned to the region by week's end, increasing evaporative losses. Farther north, mostly dry weather (less than 8 mm) in most of Central Region and Volga Region of Russia promoted winter grain maturation and harvesting. In Central Region, hot weather (maximum temperatures between 28-33 degrees C) during the first half of the week favored rapid dry down. Cooler weather (maximum temperatures between 18-29 degrees C) filtered into this region during the latter half of the week. Hot weather (maximum temperatures between 29-36 degrees C) prevailed across the Volga Region throughout the week. In the Baltics and Belarus, scattered showers (10-40 mm or more) caused some delays in winter grain harvesting. The delays were likely temporary in most areas, however, with periods of drier weather interspersed among the rainfall. Temperatures in the Baltics, Belarus, Ukraine, and Southern Region in Russia averaged about 0 to 2 degrees C above normal. Elsewhere in Russia, temperatures averaged about 2 to 6 degrees C above normal.



FSU-NEW LANDS

Mostly light, scattered showers (5-25 mm) fell across Kazakhstan and nearby areas in Russia, maintaining moisture supplies for reproducing to filling spring grains. Unseasonably cool weather slowed crop development in Kazakhstan, the eastern Urals, and western parts of Siberia, with temperatures averaging about 1 to 3 degrees C below normal. In major cotton-producing areas of Central Asia, unseasonably cool weather followed the very hot weather from the previous week. Maximum temperature were generally in the 30s degrees C in these areas.

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

Annual subscriptions: domestic first class \$45, foreign \$55 (in U.S. funds by international money order or check drawn on U.S. bank) payable to **U.S. Department of Commerce, NOAA**. POSTMASTER: Send address changes to: **Climate Prediction Center, W/NP52, Attn: Weekly Weather and Crop Bulletin, Room 605, WWBG, 5200 Auth Road, Camp Springs, MD 20746-4304**. Order subscriptions from the office and address listed above. First-class postage paid at Washington, DC, and other mailing offices. Correspondence to the meteorologists should be directed to: **Weekly Weather and Crop Bulletin, NOAA/USDA, Joint Agricultural Weather Facility, USDA South Building, Room 5844, Washington, DC 20250**. Internet URL: <http://www.usda.gov/oce/waob/jawf>, E-mail address: bmorris@oce.usda.gov

U.S. DEPARTMENT OF COMMERCE

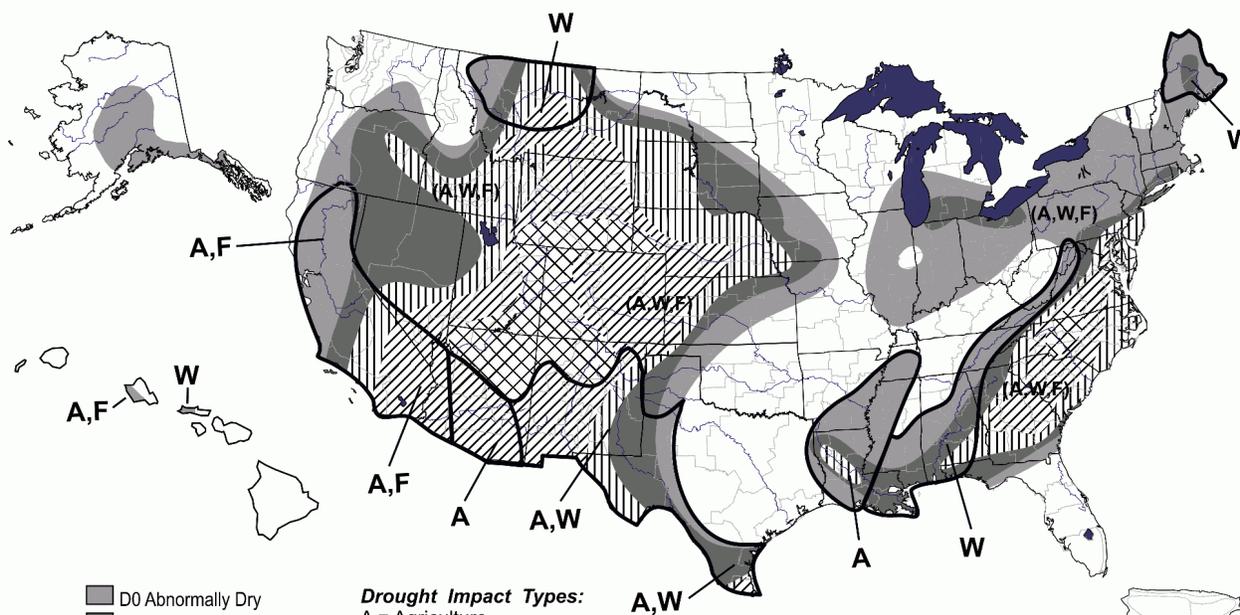
National Oceanic and Atmospheric Administration
 National Weather Service/Climate Prediction Center
 Managing Editor **David Miskus** (202) 720-7919
 Meteorologists **Eric Luebehusen, Brad Pugh,**
 **Cory Demko, and Chester Schmitt**
 Subscriptions **John Kopman** (301) 763-8000 ext 7534
 fax: (301) 763-8125

U.S. DEPARTMENT OF AGRICULTURE

Economic Research Service
 E.R.S. Editor **Sharon Lee**
 National Agricultural Statistics Service
 Agricultural Statistician **Mark Miller** (202) 720-7621
 State Summaries Editor **Delores Thomas** (202) 720-8033
 World Agricultural Outlook Board
 International Editor **Tom Puterbaugh**
 U.S. Editor **Brad Rippey** (202) 720-2397
 Agricultural Weather Analysts **Mark Brusberg**
 **Bob Stefanski, Brian Morris, and Harlan Shannon**
 Stoneville **Lee Crowley, and Ryan Wade**

U.S. Drought Monitor

July 23, 2002
 Valid 8 a.m. EDT



- D0 Abnormally Dry
- D1 Drought—Moderate
- ▨ D2 Drought—Severe
- ▩ D3 Drought—Extreme
- ▩ D4 Drought—Exceptional

Drought Impact Types:
 A = Agriculture
 W = Water (Hydrological)
 F = Fire danger (Wildfires)
 — Delineates dominant impacts
 (No type = All 3 impacts)

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

<http://drought.unl.edu/dm>



Released Thursday, July 25, 2002
 Author: Brad Rippey, USDA

Climate Prediction Center, W/NP52
 Attn: *Weekly Weather & Crop Bulletin*
 NOAA/NWS/NCEP/CPC
 5200 Auth Road
 WWB, Room 605
 Camp Springs, MD 20746-4304

**WEEKLY NEWS BULLETIN
 FIRST CLASS**

FIRST CLASS MAIL
 POSTAGE & FEES PAID
 NOAA
 PERMIT NO. G-19

OFFICIAL BUSINESS
 PENALTY FOR PRIVATE USE, \$300