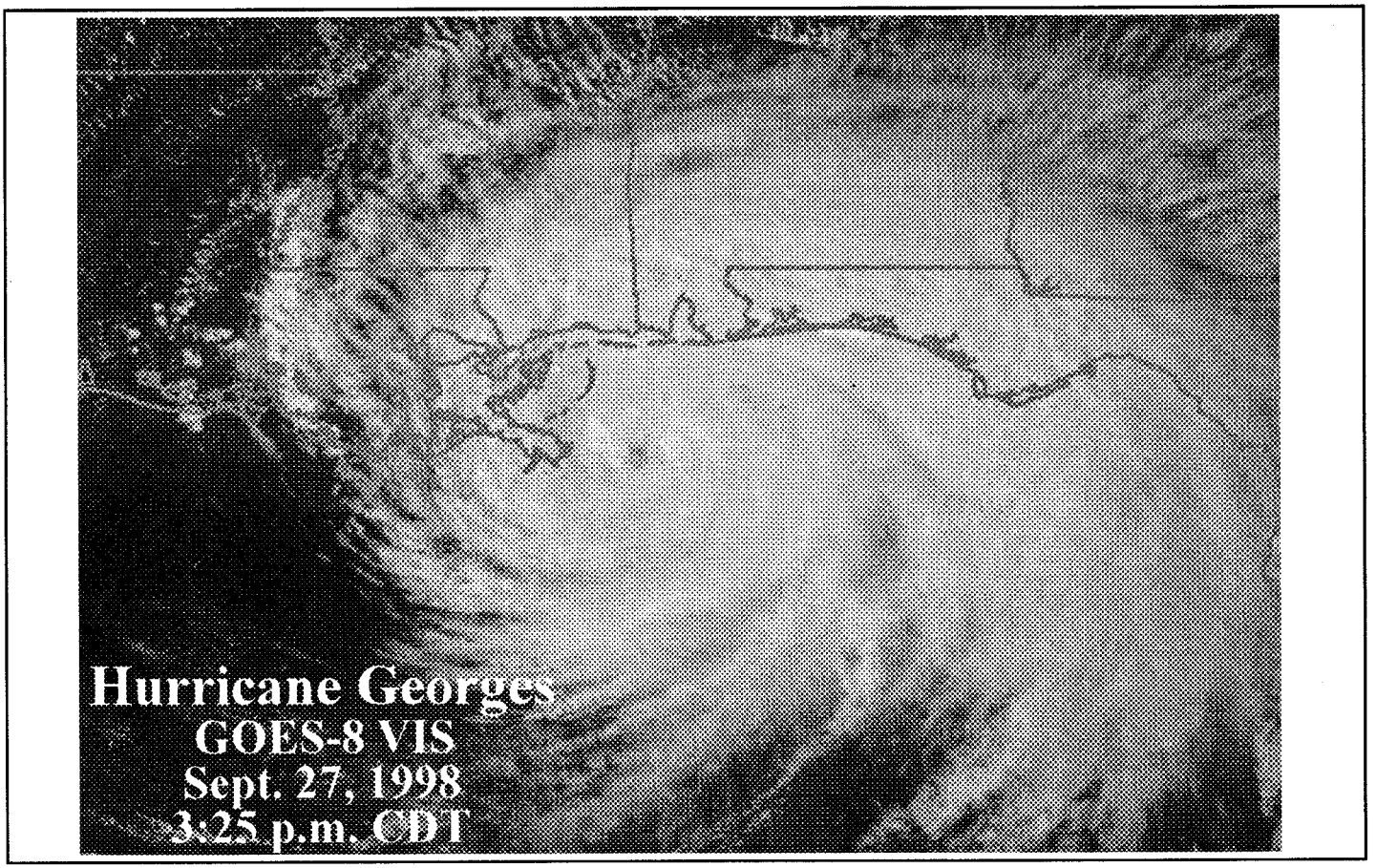
Volume 85, No. 40 October 6, 1998

# 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

### September 27 - October 3, 1998

Hurricane Georges slammed into the **Gulf Coast** near **Biloxi, MS** on the morning of September 28, with sustained winds near 105 mph. The storm weakened and drifted eastward during the next 3 days, producing torrential rainfall and flooding. Storm-total rainfall ranged from 8 to locally more than 20 inches in parts of **southern Alabama and western Florida**, possibly damaging cotton, which was mostly in the open boll stage of development, and halting peanut harvesting. Slightly lesser amounts of rain (2 to 8 inches) soaked **southern Georgia**. Meanwhile in the **Corn Belt**, corn and soybean harvesting rapidly progressed until the arrival of late-week showers. Much-needed rain dampened

*(Continued on page 3)*

## *Contents*

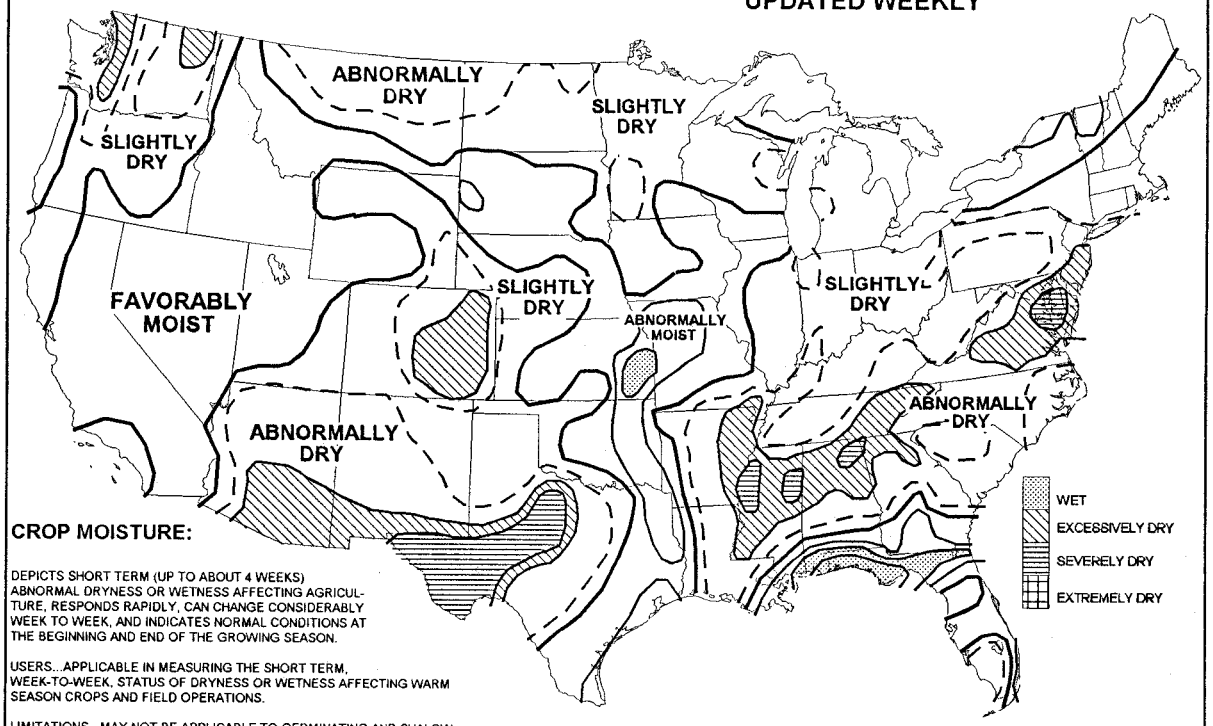
Crop Moisture Maps ..... 2
Extreme Maximum & Minimum Temperature Maps ..... 3
Total Precipitation & Temperature Departure Maps ..... 4
Growing Degree Day Maps ..... 5
National Weather Data for Selected Cities ..... 6
National Agricultural Summary ..... 9
Crop Progress and Condition Tables ..... 10
Pasture Condition Table ..... 12
State Agricultural Summaries ..... 13
International Weather and Crop Summary & **September Temperature/Precipitation Table** 19
Subscription Information & **Track of Hurricane Georges** ..... 24

## CROP MOISTURE

(SHORT TERM, CROP NEED VS. AVAILABLE WATER IN 5-FT. SOIL PROFILE)

**October 3, 1998**

**UPDATED WEEKLY**




**CROP MOISTURE:**

DEPICTS SHORT TERM (UP TO ABOUT 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.

USERS...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 SHALOW 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 55 DEG F. IT IS NOT GENERALLY INDICATIVE OF THE LONG TERM (MONTHS, YEARS) DROUGHT OR WET SPELLS WHICH ARE DEPICTED BY THE DROUGHT SEVERITY INDEX.

NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY Based on preliminary reports

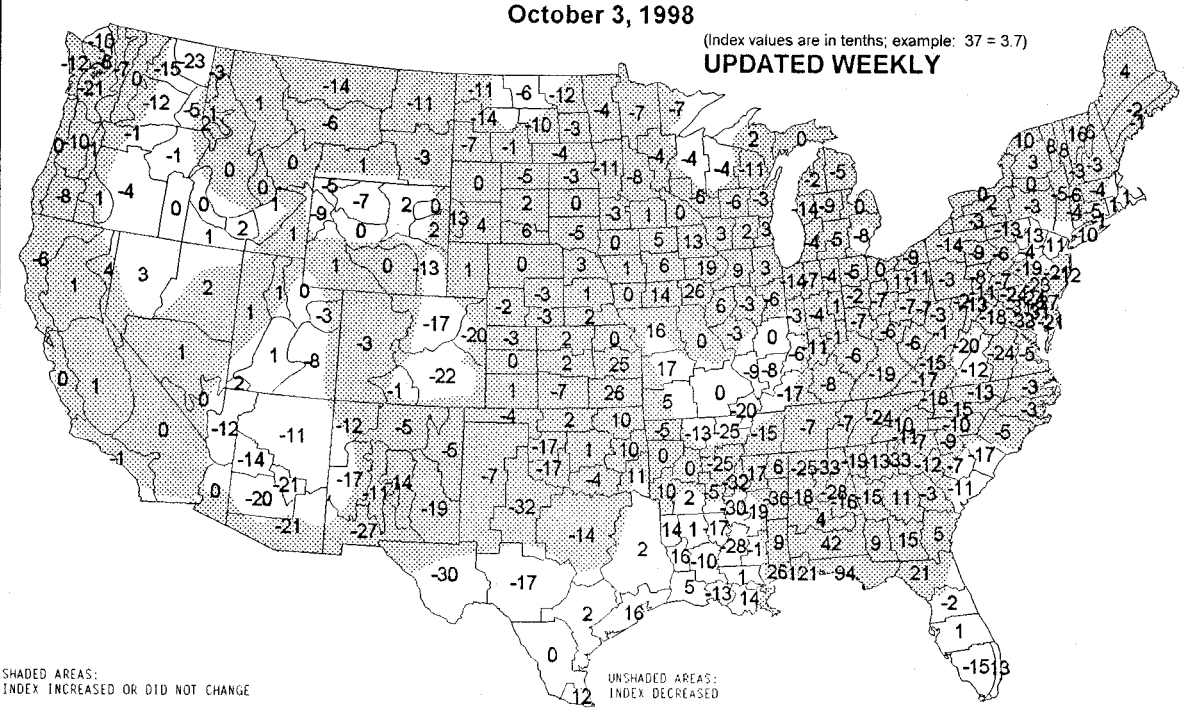
## CROP MOISTURE INDEX

(SHORT TERM, CROP NEED VS. AVAILABLE WATER IN 5-FT. SOIL PROFILE)

**October 3, 1998**

(Index values are in tenths; example: 37 = 3.7)

**UPDATED WEEKLY**



SHADED AREAS:
INDEX INCREASED OR DID NOT CHANGE

| | |
|---|---|
| ABOVE 3 | 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 CONTINUES; 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 FIELDWORK |
| 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 reports

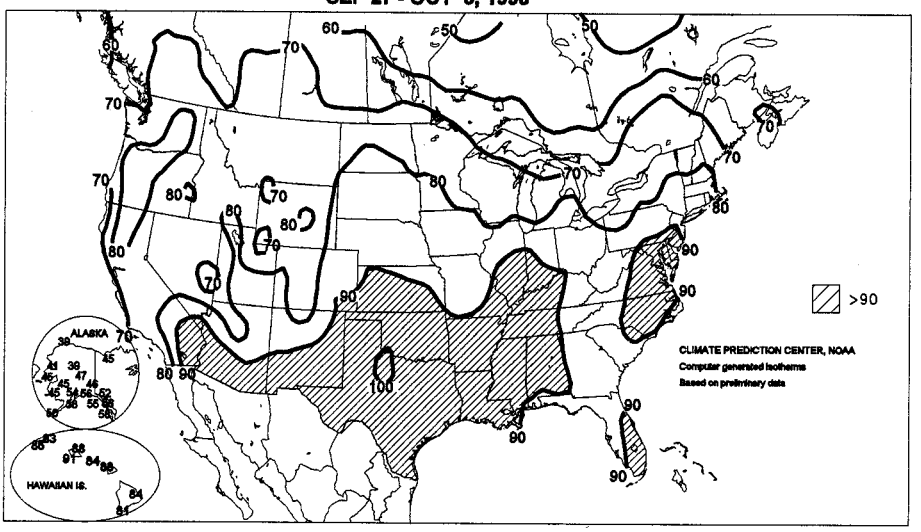
*(Continued from front cover)*

the **central and southern Plains**, improving prospects for winter wheat establishment. The season's first freeze occurred in the **Red River Valley** and surrounding areas on October 1 and 2, several days later than normal. Farther west, cool weather prevailed in **California**, where weekly temperatures were as much as 10°F below normal. In contrast, warm weather across the **South** resulted in departures ranging from +5 to +12°F.

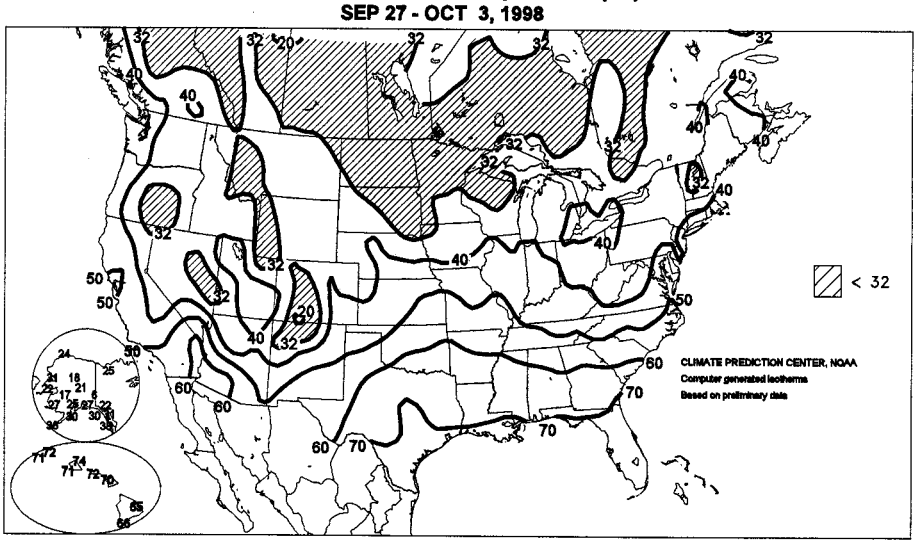
Early in the week, very warm weather continued across the **Eastern, Central**, and **Southern States**. During the last 7 days of September, more than 150 daily-record highs were established in these areas. On Sunday, highs soared into the 90's°F as far north as **Philadelphia, PA** (91°F) and **Springfield, IL** (91°F). Highs reached 98°F in **Houston, TX** (on Monday) and **Liberal, KS** (on Tuesday). On Wednesday, a high of 96°F in **Little Rock, AR** marked their 110th day of 90-degree heat this year, second only to 115 such days in 1954.

After passing near **Key West, FL** on September 25, Hurricane Georges approached the **central Gulf Coast**. (For a short period on September 25-26, there were four hurricanes--Georges, along with Ivan, Jeanne, and Karl in the **eastern Atlantic Ocean**--simultaneously in the **Atlantic Basin** for the first time since August 1893.) An approaching cold front helped to steer the hurricane on a more northward course before landfall, and to turn the storm's remnants eastward across **northernmost Florida**. In **southern Alabama** and extreme **western Florida**, storm surges ranged from 5 to 12 feet, breaching **Dauphin Island, AL** and several other barrier islands. Major flooding occurred in most basins across **western Florida** and **southern Alabama**, including the **Perdido, Escambia, Blackwater**, and **Yellow Rivers**. Storm-total rainfall

**Extreme Maximum Temperature (°F)**
**SEP 27 - OCT 3, 1998**



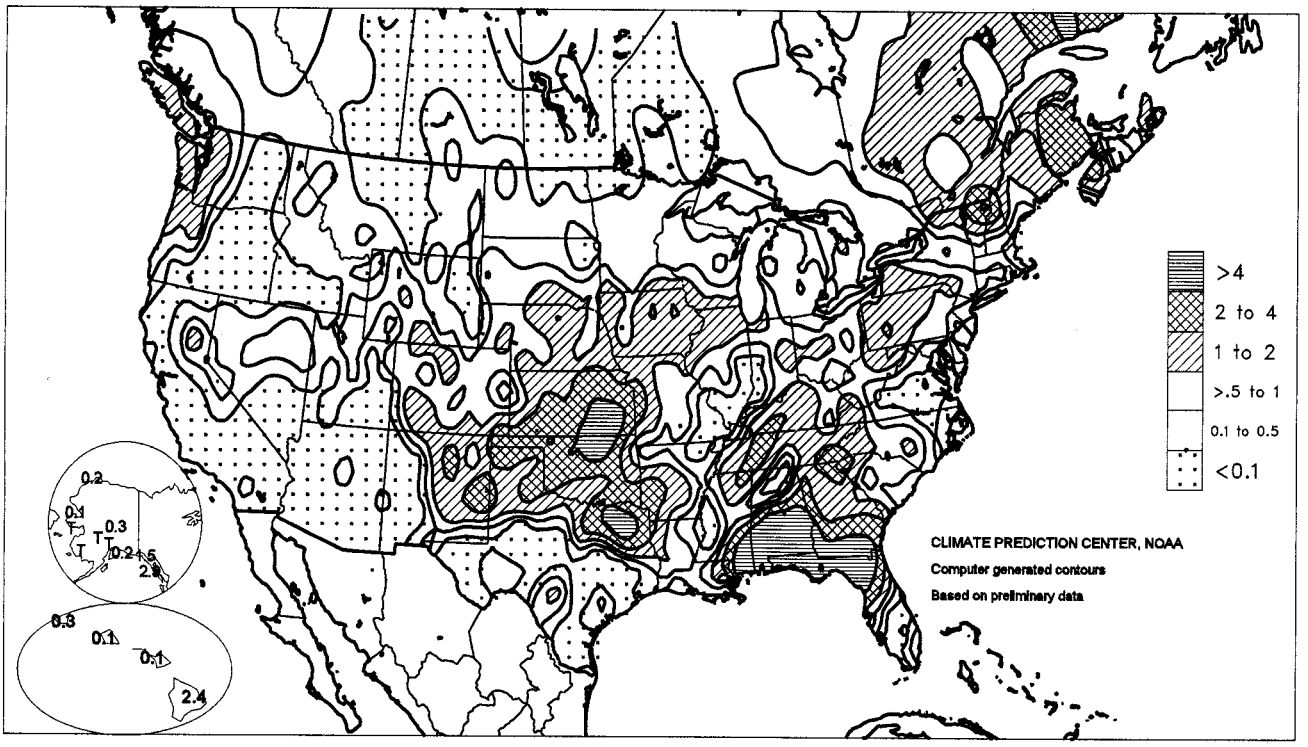

**Extreme Minimum Temperature (°F)**
**SEP 27 - OCT 3, 1998**



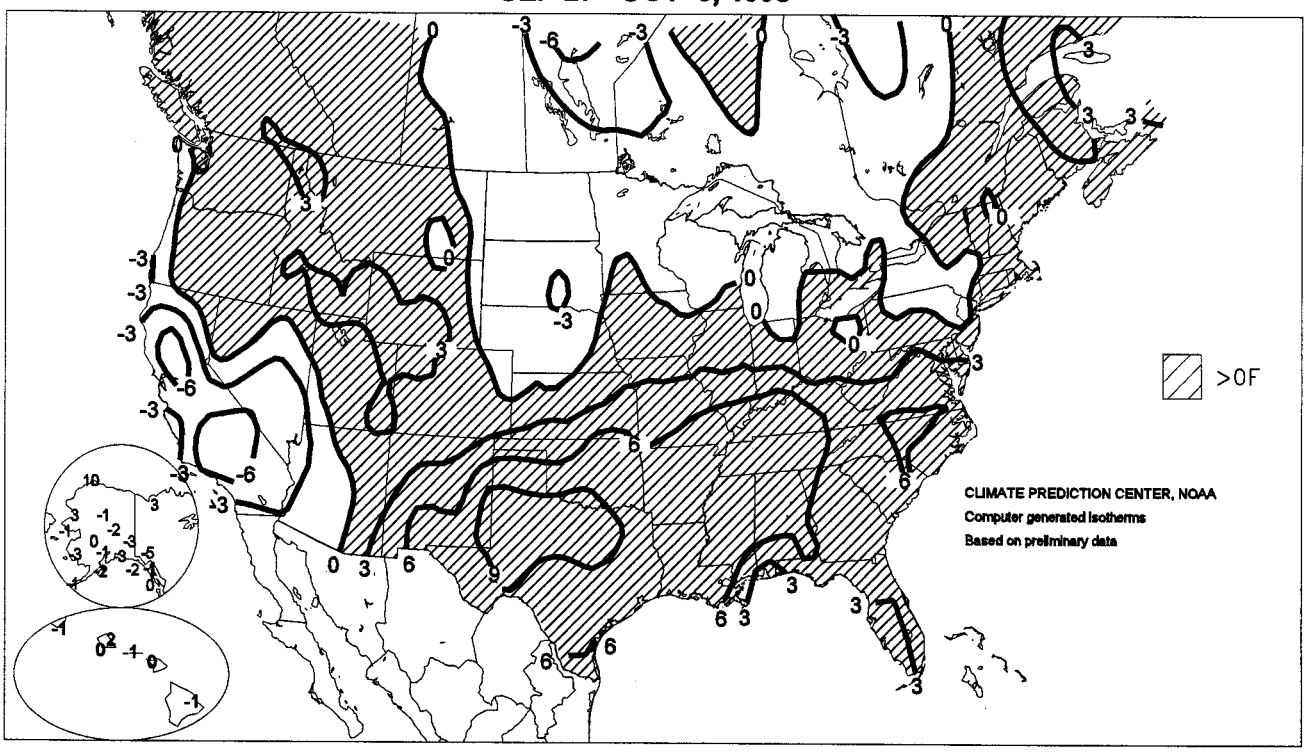

approached 30 inches in a few locations, including **Bay Minette, AL** (29.66 inches), **Gulf Breeze, FL** (26.87 inches), and Eglin AFB, near **Valparaiso, FL** (24.24 inches).

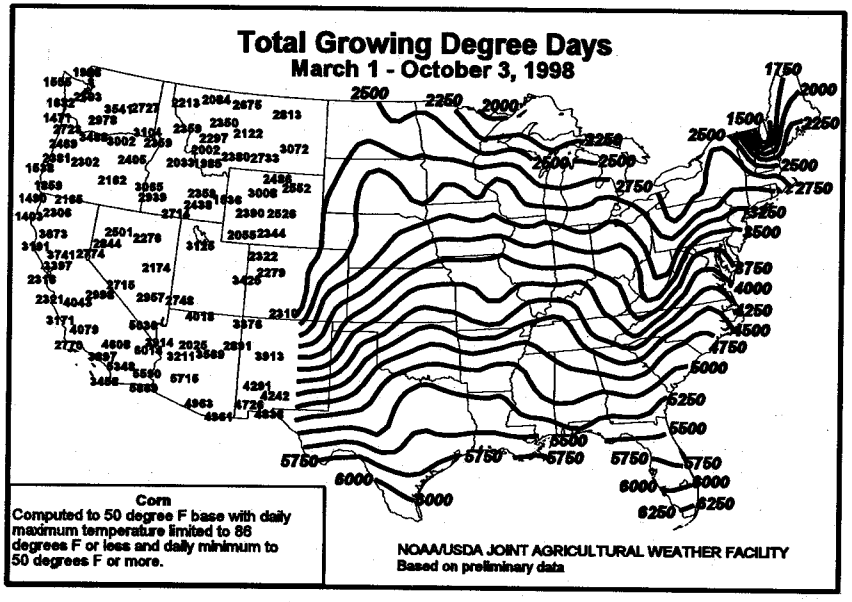
At midweek, sharply cooler air overspread much of the Nation. On Thursday, lingering heat across the **South** resulted in an October-record high of 94°F in **New Orleans, LA**. Farther north, a hard freeze on October 2 produced lows of 20°F in both **Grand Forks, ND** and **Hayward, WI**. Meanwhile, **Virginia's Dulles Airport** notched a daily-record low of 32°F. Near the boundary of contrasting air masses, frequent showers and thunderstorms occurred across the **central and southern Plains**. Weekly rainfall totaled generally 1 to 4 inches across most of **Kansas, Oklahoma, southeastern Colorado**, and **northern Texas**, with locally higher totals near the **Kansas-Oklahoma border**. Late-week highs struggled to only 47°F in **Dubuque, IA** on Friday, and 48°F a day later in **North Platte, NE**. Snowfall blanketed higher elevations of the **West**, including a 3-inch depth by Sunday morning (October 4) in **Telluride, CO**.

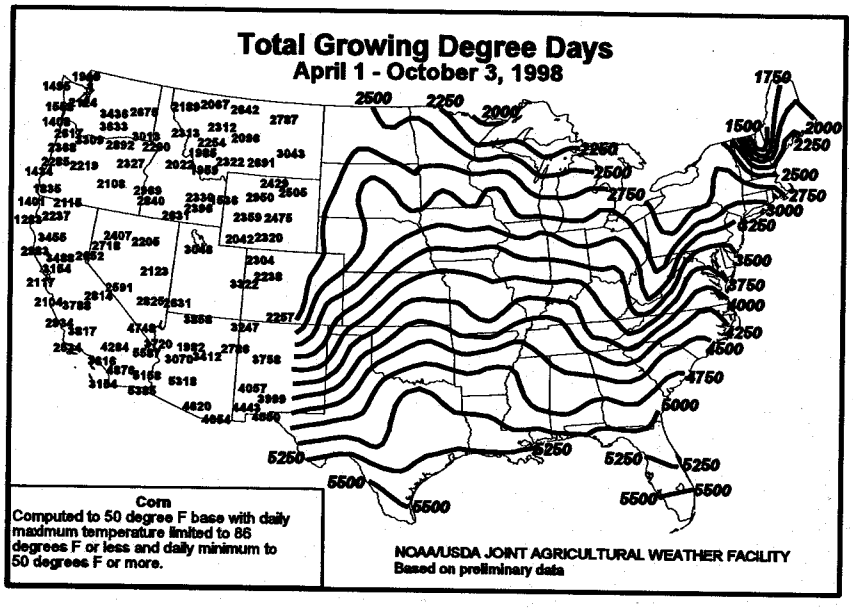
## Total Precipitation (Inches)
### SEP 27 - OCT 3, 1998

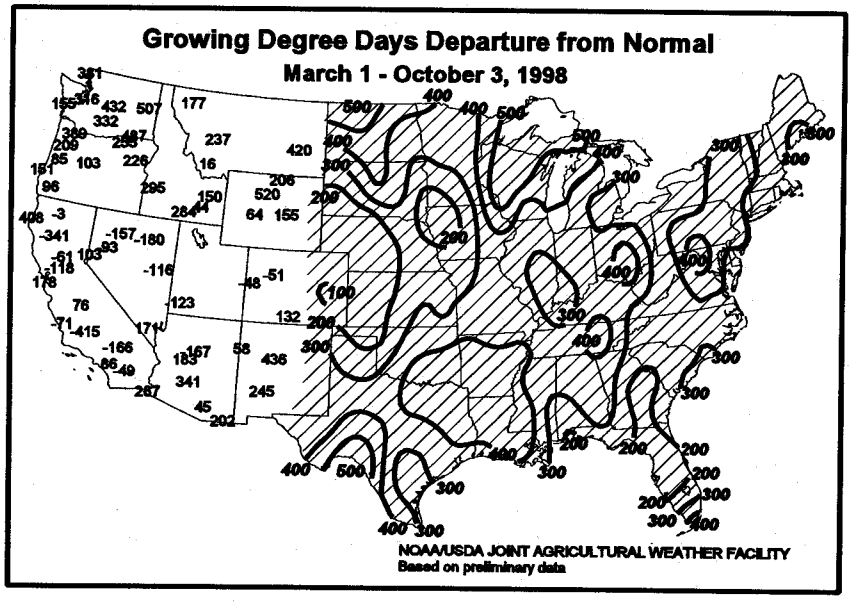


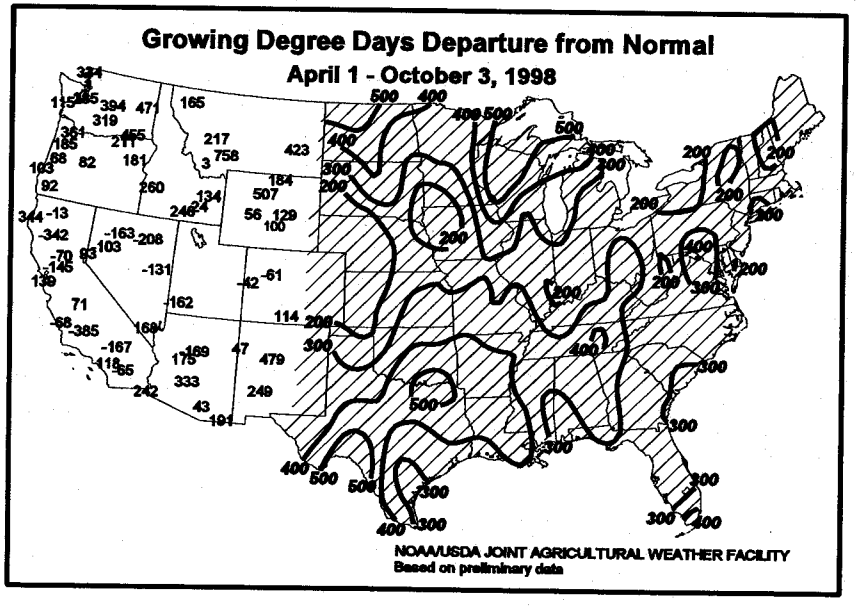

## Departure of Average Temperature from Normal(°F)
### SEP 27 - OCT 3, 1998




Total Growing Degree Days
March 1 - October 3, 1998
Corn
Computed to 50 degree F base with daily maximum temperature limited to 86 degrees F or less and daily minimum to 50 degrees F or more.
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary data


Total Growing Degree Days
April 1 - October 3, 1998
Corn
Computed to 50 degree F base with daily maximum temperature limited to 86 degrees F or less and daily minimum to 50 degrees F or more.
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary data


Growing Degree Days Departure from Normal
March 1 - October 3, 1998
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary data


Growing Degree Days Departure from Normal
April 1 - October 3, 1998
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary data

# National Weather Data for Selected Cities

## Weather Data for the Week Ending October 3, 1998

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

| STATES AND STATIONS | | TEMPERATURE °F | | | | | | PRECIPITATION | | | | | | | RELATIVE HUMIDITY, PERCENT | | NUMBER OF DAYS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | TEMP, °F | | PRECIP. | |
| | | AVERAGE MAXIMUM | AVERAGE MINIMUM | EXTREME HIGH | EXTREME LOW | AVERAGE | DEPARTURE FROM NORMAL | WEEKLY TOTAL, IN. | DEPARTURE FROM NORMAL | GREATEST IN 24-HOUR, IN. | TOTAL, IN., SINCE Sep 1 | PCT. NORMAL SINCE Sep 1 | TOTAL, IN., SINCE Jan 1 | PCT. NORMAL SINCE Jan 1 | AVERAGE MAXIMUM | AVERAGE MINIMUM | 90 AND ABOVE | 32 AND BELOW | .01 INCH OR MORE | .50 INCH OR MORE |
| AL | BIRMINGHAM | 87 | 69 | 94 | 62 | 78 | 10 | 0.44 | -0.33 | 0.18 | 1.09 | 26 | 55.05 | 129 | 89 | 51 | 2 | 0 | 3 | 0 |
| | HUNTSVILLE | 89 | 66 | 94 | 53 | 77 | 10 | 0.08 | -0.76 | 0.08 | 0.56 | 13 | 33.31 | 77 | 87 | 46 | 2 | 0 | 1 | 0 |
| | MOBILE | 82 | 71 | 90 | 66 | 77 | 3 | 12.64 | 11.65 | 7.32 | 24.13 | 385 | 78.00 | 150 | 100 | 76 | 1 | 0 | 5 | 3 |
| | MONTGOMERY | 84 | 69 | 91 | 64 | 77 | 5 | 8.73 | 7.98 | 4.49 | 9.48 | 218 | 44.77 | 107 | 94 | 64 | 2 | 0 | 5 | 2 |
| AK | ANCHORAGE | 49 | 34 | 54 | 25 | 41 | -1 | 0.01 | -0.56 | 0.01 | 0.74 | 25 | 9.27 | 78 | 82 | 46 | 0 | 3 | 1 | 0 |
| | BARROW | 36 | 31 | 39 | 24 | 34 | 10 | 0.17 | 0.06 | 0.10 | 1.03 | 161 | 3.32 | 94 | 94 | 73 | 0 | 4 | 6 | 0 |
| | FAIRBANKS | 44 | 27 | 47 | 21 | 35 | -2 | 0.34 | 0.16 | 0.30 | 1.19 | 116 | 9.59 | 113 | 89 | 45 | 0 | 6 | 2 | 0 |
| | JUNEAU | 51 | 40 | 56 | 31 | 45 | -1 | 1.28 | -0.49 | 0.88 | 6.20 | 83 | 34.80 | 92 | 100 | 69 | 0 | 2 | 5 | 1 |
| | KODIAK | 50 | 37 | 53 | 30 | 43 | -2 | 4.49 | 2.78 | 3.39 | 12.34 | 160 | 80.16 | 166 | 84 | 51 | 0 | 1 | 4 | 2 |
| | NOME | 41 | 28 | 45 | 22 | 35 | -1 | 0.01 | -0.43 | 0.01 | 3.49 | 134 | 20.48 | 173 | 93 | 61 | 0 | 5 | 1 | 0 |
| AZ | FLAGSTAFF | 65 | 38 | 69 | 28 | 50 | -2 | 0.06 | -0.34 | 0.06 | 4.45 | 202 | 22.09 | 130 | 86 | 28 | 0 | 3 | 1 | 0 |
| | PHOENIX | 92 | 69 | 96 | 65 | 80 | -1 | 0.00 | -0.17 | 0.00 | 0.58 | 62 | 8.63 | 158 | 43 | 18 | 5 | 0 | 0 | 0 |
| | TUCSON | 91 | 61 | 95 | 57 | 76 | 0 | 0.00 | -0.32 | 0.00 | 1.10 | 61 | 12.26 | 131 | 46 | 15 | 5 | 0 | 0 | 0 |
| | YUMA | 92 | 68 | 96 | 65 | 80 | -2 | 0.00 | -0.06 | 0.00 | 2.26 | 686 | 4.38 | 196 | 65 | 20 | 5 | 0 | 0 | 0 |
| AR | FORT SMITH | 86 | 67 | 94 | 63 | 76 | 8 | 0.68 | -0.11 | 0.58 | 6.11 | 171 | 33.12 | 108 | 92 | 51 | 4 | 0 | 4 | 1 |
| | LITTLE ROCK | 89 | 69 | 97 | 59 | 79 | 9 | 0.91 | 0.02 | 0.58 | 4.75 | 108 | 31.50 | 84 | 87 | 50 | 4 | 0 | 3 | 1 |
| CA | BAKERSFIELD | 76 | 55 | 83 | 51 | 65 | -8 | 0.00 | -0.04 | 0.00 | 0.31 | 182 | 11.99 | 292 | 82 | 39 | 0 | 0 | 0 | 0 |
| | EUREKA | 62 | 49 | 65 | 44 | 55 | -1 | 0.44 | 0.16 | 0.20 | 0.54 | 53 | 41.35 | 184 | 100 | 74 | 0 | 0 | 6 | 0 |
| | FRESNO | 76 | 55 | 82 | 52 | 66 | -5 | 0.00 | -0.07 | 0.00 | 0.15 | 58 | 16.12 | 223 | 87 | 36 | 0 | 0 | 0 | 0 |
| | LOS ANGELES | 70 | 61 | 72 | 57 | 66 | -3 | 0.00 | -0.04 | 0.00 | 0.03 | 9 | 23.86 | 289 | 92 | 66 | 0 | 0 | 0 | 0 |
| | REDDING | 76 | 51 | 90 | 47 | 64 | -6 | 0.03 | -0.26 | 0.03 | 0.06 | 6 | 47.46 | 232 | 89 | 33 | 1 | 0 | 1 | 0 |
| | SACRAMENTO | 72 | 52 | 77 | 46 | 62 | -7 | 0.10 | -0.03 | 0.00 | 0.30 | 70 | 23.74 | 211 | 94 | 47 | 0 | 0 | 1 | 0 |
| | SAN DIEGO | 70 | 63 | 72 | 60 | 67 | -3 | 0.00 | -0.04 | 0.00 | 0.03 | 12 | 14.30 | 219 | 80 | 61 | 0 | 0 | 0 | 0 |
| | SAN FRANCISCO | 63 | 56 | 69 | 55 | 60 | -4 | 0.09 | -0.03 | 0.05 | 0.11 | 44 | 28.69 | 229 | 92 | 67 | 0 | 0 | 3 | 0 |
| CO | ALAMOSA | 68 | 33 | 79 | 24 | 51 | 1 | 0.44 | 0.25 | 0.23 | 0.99 | 102 | 4.96 | 82 | 89 | 27 | 0 | 4 | 5 | 0 |
| | CO SPRINGS | 72 | 45 | 85 | 40 | 58 | 3 | 0.30 | 0.09 | 0.15 | 0.72 | 51 | 14.90 | 102 | 82 | 33 | 0 | 0 | 5 | 0 |
| | DENVER | 71 | 47 | 86 | 43 | 59 | 1 | 0.43 | 0.17 | 0.21 | 1.21 | 90 | 14.70 | 113 | 80 | 39 | 0 | 0 | 4 | 0 |
| | GRAND JUNCTION | 75 | 50 | 82 | 42 | 63 | 1 | 0.41 | 0.20 | 0.28 | 1.45 | 156 | 7.07 | 110 | 66 | 24 | 0 | 0 | 3 | 0 |
| | PUEBLO | 78 | 47 | 93 | 43 | 62 | 2 | 1.60 | 1.46 | 0.83 | 1.25 | 130 | 10.21 | 104 | 86 | 32 | 1 | 0 | 3 | 2 |
| CT | BRIDGEPORT | 71 | 52 | 80 | 44 | 61 | 0 | 0.64 | -0.05 | 0.59 | 2.18 | 65 | 36.08 | 114 | 78 | 32 | 0 | 0 | 4 | 1 |
| | HARTFORD | 71 | 47 | 86 | 40 | 59 | 1 | 0.39 | -0.44 | 0.26 | 2.34 | 57 | 36.27 | 110 | 91 | 39 | 0 | 0 | 3 | 0 |
| DC | WASHINGTON | 79 | 59 | 94 | 50 | 69 | 3 | 0.15 | -0.55 | 0.03 | 1.92 | 53 | 32.77 | 110 | 80 | 36 | 1 | 0 | 3 | 0 |
| DE | WILMINGTON | 76 | 52 | 91 | 42 | 64 | 2 | 0.16 | -0.57 | 0.12 | 1.92 | 51 | 31.58 | 100 | 89 | 37 | 1 | 0 | 3 | 0 |
| FL | DAYTONA BEACH | 88 | 75 | 90 | 73 | 81 | 4 | 1.07 | -0.18 | 0.83 | 6.71 | 98 | 36.59 | 94 | 97 | 62 | 2 | 0 | 3 | 1 |
| | JACKSONVILLE | 85 | 74 | 88 | 71 | 79 | 5 | 3.24 | 2.08 | 1.86 | 9.72 | 130 | 53.13 | 121 | 97 | 68 | 0 | 0 | 4 | 2 |
| | KEY WEST | 87 | 80 | 89 | 79 | 84 | 2 | 0.00 | -1.24 | 0.00 | 11.63 | 183 | 29.27 | 95 | 85 | 68 | 0 | 0 | 0 | 0 |
| | MIAMI | 89 | 78 | 91 | 76 | 84 | 3 | 0.43 | -1.18 | 0.43 | 14.87 | 179 | 56.37 | 121 | 87 | 59 | 3 | 0 | 1 | 0 |
| | ORLANDO | 89 | 74 | 90 | 72 | 82 | 3 | 0.24 | -0.74 | 0.14 | 5.46 | 86 | 41.89 | 101 | 97 | 55 | 4 | 0 | 4 | 0 |
| | PENSACOLA | 82 | 72 | 89 | 68 | 77 | 3 | 14.73 | 13.67 | 9.09 | 19.69 | 342 | 59.96 | 118 | 98 | 75 | 0 | 0 | 5 | 3 |
| | TALLAHASSEE | 85 | 73 | 90 | 68 | 79 | 5 | 6.40 | 5.47 | 5.26 | 14.08 | 237 | 55.76 | 103 | 96 | 69 | 1 | 0 | 5 | 2 |
| | TAMPA | 86 | 78 | 87 | 76 | 82 | 3 | 0.60 | -0.31 | 0.41 | 8.67 | 138 | 53.81 | 141 | 94 | 70 | 0 | 0 | 3 | 0 |
| | WEST PALM BEACH | 89 | 77 | 91 | 74 | 83 | 3 | 0.59 | -1.28 | 0.43 | 13.82 | 149 | 55.05 | 115 | 90 | 58 | 3 | 0 | 3 | 0 |
| GA | ATHENS | 81 | 65 | 88 | 58 | 73 | 5 | 2.46 | 1.71 | 2.42 | 4.47 | 122 | 44.08 | 113 | 95 | 64 | 0 | 0 | 2 | 1 |
| | ATLANTA | 79 | 67 | 86 | 60 | 73 | 5 | 1.08 | 0.35 | 0.82 | 4.53 | 122 | 42.18 | 106 | 94 | 62 | 0 | 0 | 5 | 1 |
| | AUGUSTA | 84 | 66 | 89 | 56 | 75 | 6 | 0.50 | -0.15 | 0.37 | 8.54 | 258 | 45.69 | 126 | 97 | 60 | 0 | 0 | 3 | 0 |
| | COLUMBUS | 82 | 72 | 90 | 65 | 77 | 5 | 3.00 | 2.40 | 2.31 | 5.33 | 154 | 30.26 | 75 | 91 | 67 | 1 | 0 | 4 | 2 |
| | MACON | 82 | 69 | 89 | 64 | 76 | 5 | 2.59 | 2.04 | 1.57 | 7.44 | 248 | 40.18 | 113 | 98 | 70 | 0 | 0 | 3 | 2 |
| | SAVANNAH | 84 | 71 | 89 | 66 | 78 | 5 | 2.32 | 1.60 | 1.33 | 6.54 | 138 | 46.56 | 111 | 100 | 66 | 0 | 0 | 4 | 2 |
| HI | HILO | 82 | 68 | 84 | 65 | 75 | -1 | 2.42 | 0.49 | 0.53 | 8.37 | 90 | 42.54 | 45 | 98 | 67 | 0 | 0 | 7 | 2 |
| | HONOLULU | 86 | 74 | 88 | 71 | 80 | 0 | 0.00 | -0.33 | 0.00 | 0.05 | 5 | 2.67 | 20 | 85 | 56 | 0 | 0 | 0 | 0 |
| | KAHULUI | 85 | 72 | 88 | 70 | 78 | 0 | 0.07 | -0.07 | 0.00 | 0.41 | 103 | 3.46 | 25 | 85 | 54 | 0 | 0 | 1 | 0 |
| | LIHUE | 82 | 74 | 83 | 72 | 78 | -1 | 0.29 | -0.47 | 0.10 | 1.23 | 45 | 13.97 | 49 | 81 | 62 | 0 | 0 | 6 | 0 |
| ID | BOISE | 73 | 49 | 78 | 40 | 61 | 4 | 0.03 | -0.14 | 0.03 | 1.99 | 231 | 14.02 | 164 | 83 | 37 | 0 | 0 | 1 | 0 |
| | LEWISTON | 71 | 47 | 78 | 39 | 59 | 1 | 0.18 | -0.01 | 0.15 | 2.08 | 229 | 13.45 | 144 | 90 | 34 | 0 | 0 | 3 | 0 |
| | POCATELLO | 70 | 41 | 80 | 35 | 56 | 2 | 0.18 | -0.03 | 0.09 | 1.96 | 211 | 11.26 | 125 | 83 | 28 | 0 | 0 | 2 | 0 |
| IL | CHICAGO/O'HARE | 69 | 51 | 86 | 42 | 60 | 1 | 0.54 | -0.16 | 0.53 | 2.88 | 70 | 29.66 | 105 | 90 | 52 | 0 | 0 | 2 | 1 |
| | MOLINE | 70 | 51 | 85 | 43 | 61 | 1 | 1.54 | 0.72 | 0.80 | 4.62 | 104 | 37.67 | 119 | 95 | 57 | 0 | 0 | 5 | 2 |
| | PEORIA | 71 | 53 | 87 | 43 | 62 | 1 | 0.30 | -0.48 | 0.13 | 2.46 | 59 | 35.03 | 122 | 93 | 53 | 0 | 0 | 3 | 0 |
| | ROCKFORD | 68 | 48 | 82 | 38 | 58 | 0 | 0.39 | -0.38 | 0.20 | 2.68 | 65 | 32.19 | 111 | 99 | 52 | 0 | 0 | 5 | 0 |
| | SPRINGFIELD | 75 | 54 | 91 | 45 | 65 | 2 | 0.31 | -0.38 | 0.13 | 1.38 | 38 | 38.28 | 138 | 91 | 47 | 1 | 0 | 4 | 0 |
| IN | EVANSVILLE | 83 | 58 | 94 | 47 | 71 | 7 | 0.08 | -0.57 | 0.08 | 0.57 | 18 | 34.11 | 103 | 92 | 40 | 2 | 0 | 1 | 0 |
| | FORT WAYNE | 69 | 48 | 85 | 38 | 59 | -1 | 0.67 | 0.10 | 0.45 | 1.78 | 61 | 32.15 | 120 | 95 | 41 | 0 | 0 | 4 | 0 |
| | INDIANAPOLIS | 74 | 56 | 91 | 46 | 65 | 4 | 0.80 | 0.20 | 0.80 | 3.67 | 118 | 41.76 | 135 | 86 | 37 | 1 | 0 | 1 | 1 |
| | SOUTH BEND | 68 | 49 | 80 | 42 | 58 | 0 | 0.54 | -0.23 | 0.47 | 2.05 | 52 | 29.90 | 100 | 94 | 53 | 0 | 0 | 3 | 0 |
| IA | BURLINGTON | 75 | 56 | 89 | 46 | 66 | 5 | 0.95 | 0.11 | 0.39 | 6.79 | 153 | 38.96 | 134 | 85 | 51 | 0 | 0 | 4 | 0 |
| | CEDAR RAPIDS | 67 | 49 | 80 | 36 | 58 | 0 | 1.40 | 0.67 | 0.58 | 3.72 | 89 | 35.87 | 128 | 97 | 59 | 0 | 0 | 4 | 2 |
| | DES MOINES | 70 | 52 | 84 | 40 | 61 | 1 | 0.86 | 0.15 | 0.51 | 1.51 | 39 | 35.81 | 129 | 92 | 52 | 0 | 0 | 2 | 1 |
| | DUBUQUE | 65 | 48 | 78 | 40 | 57 | 0 | 1.27 | 0.41 | 0.50 | 4.67 | 93 | 38.29 | 123 | 93 | 56 | 0 | 0 | 4 | 1 |
| | SIOUX CITY | 71 | 48 | 87 | 33 | 59 | 1 | 0.62 | 0.04 | 0.45 | 1.04 | 33 | 26.25 | 118 | 94 | 46 | 0 | 0 | 3 | 0 |
| | WATERLOO | 68 | 48 | 84 | 35 | 57 | 1 | 1.04 | 0.32 | 0.48 | 2.47 | 65 | 38.75 | 137 | 96 | 52 | 0 | 0 | 4 | 0 |
| KS | CONCORDIA | 70 | 55 | 87 | 46 | 62 | 0 | 2.14 | 1.55 | 0.68 | 5.36 | 165 | 27.84 | 111 | 95 | 62 | 0 | 0 | 5 | 3 |
| | DODGE CITY | 80 | 54 | 98 | 45 | 67 | 3 | 1.92 | 1.56 | 1.56 | 1.91 | 93 | 17.16 | 91 | 94 | 47 | 3 | 0 | 4 | 1 |
| | GOODLAND | 70 | 48 | 87 | 37 | 58 | -1 | 0.87 | 0.58 | 0.76 | 1.21 | 72 | 15.28 | 94 | 92 | 50 | 0 | 0 | 4 | 1 |
| | TOPEKA | 73 | 59 | 90 | 51 | 66 | 3 | 2.01 | 1.19 | 0.53 | 4.91 | 119 | 31.02 | 106 | 92 | 63 | 1 | 0 | 7 | 2 |

**Based on 1961-90 normals**

## Weather Data for the Week Ending October 3, 1998

| STATES AND STATIONS | | TEMPERATURE °F | | | | | | PRECIPITATION | | | | | | | RELATIVE HUMIDITY, PERCENT | | NUMBER OF DAYS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | TEMP, °F | | PRECIP. | |
| | | AVERAGE MAXIMUM | AVERAGE MINIMUM | EXTREME HIGH | EXTREME LOW | AVERAGE | DEPARTURE FROM NORMAL | WEEKLY TOTAL, IN. | DEPARTURE FROM NORMAL | GREATEST IN 24-HOUR, IN. | TOTAL, IN., SINCE Sep 1 | PCT. NORMAL SINCE Sep 1 | TOTAL, IN., SINCE Jan 1 | PCT. NORMAL SINCE Jan 1 | AVERAGE MAXIMUM | AVERAGE MINIMUM | 90 AND ABOVE | 32 AND BELOW | .01 INCH OR MORE | .50 INCH OR MORE |
| | WICHITA | 81 | 61 | 97 | 51 | 71 | 6 | 3.71 | 3.02 | 1.52 | 4.58 | 122 | 22.31 | 91 | 95 | 59 | 3 | 0 | 5 | 4 |
| KY | JACKSON | 77 | 59 | 86 | 46 | 68 | 5 | 0.59 | -0.18 | 0.49 | 2.59 | 65 | 43.17 | 113 | 84 | 44 | 0 | 0 | 4 | 0 |
| | LEXINGTON | 79 | 57 | 90 | 42 | 68 | 5 | 0.95 | 0.32 | 0.94 | 1.55 | 45 | 42.99 | 123 | 88 | 46 | 1 | 0 | 2 | 1 |
| | LOUISVILLE | 82 | 61 | 92 | 53 | 72 | 8 | 0.95 | 0.30 | 0.91 | 1.42 | 42 | 40.82 | 118 | 82 | 37 | 2 | 0 | 2 | 1 |
| | PADUCAH | 87 | 60 | 95 | 50 | 73 | 8 | 0.18 | -0.57 | 0.18 | 0.31 | 8 | 42.45 | 113 | 92 | 37 | 4 | 0 | 2 | 0 |
| LA | BATON ROUGE | 90 | 72 | 93 | 69 | 81 | 7 | 0.31 | -0.62 | 0.29 | 8.56 | 164 | 47.65 | 99 | 89 | 53 | 4 | 0 | 2 | 0 |
| | LAKE CHARLES | 92 | 73 | 96 | 70 | 83 | 8 | 1.73 | 0.60 | 1.73 | 14.31 | 233 | 46.36 | 110 | 96 | 49 | 5 | 0 | 1 | 1 |
| | NEW ORLEANS | 89 | 75 | 94 | 72 | 82 | 7 | 0.49 | -0.47 | 0.47 | 18.98 | 324 | 71.56 | 146 | 90 | 57 | 4 | 0 | 2 | 0 |
| | SHREVEPORT | 91 | 71 | 94 | 67 | 81 | 9 | 2.26 | 1.47 | 1.32 | 10.04 | 292 | 36.31 | 106 | 93 | 52 | 5 | 0 | 2 | 2 |
| ME | CARIBOU | 58 | 43 | 63 | 35 | 50 | 2 | 1.03 | 0.31 | 0.50 | 3.72 | 99 | 30.43 | 113 | 94 | 61 | 0 | 0 | 4 | 1 |
| | PORTLAND | 65 | 44 | 74 | 37 | 54 | 0 | 0.35 | -0.42 | 0.31 | 3.06 | 89 | 41.00 | 132 | 88 | 47 | 0 | 0 | 2 | 0 |
| MD | BALTIMORE | 78 | 51 | 94 | 39 | 64 | 1 | 0.03 | -0.69 | 0.03 | 1.30 | 35 | 30.96 | 99 | 90 | 34 | 1 | 0 | 1 | 0 |
| MA | BOSTON | 72 | 53 | 86 | 46 | 62 | 2 | 0.14 | -0.56 | 0.08 | 3.05 | 91 | 45.36 | 150 | 84 | 43 | 0 | 0 | 3 | 0 |
| | WORCESTER | 66 | 46 | 81 | 35 | 56 | 1 | 0.21 | -0.74 | 0.11 | 1.70 | 39 | 38.31 | 108 | 93 | 45 | 0 | 0 | 3 | 0 |
| MI | ALPENA | 59 | 39 | 71 | 31 | 49 | -3 | 0.36 | -0.23 | 0.13 | 3.00 | 90 | 24.87 | 109 | 96 | 57 | 0 | 1 | 4 | 0 |
| | GRAND RAPIDS | 66 | 48 | 80 | 42 | 57 | 1 | 0.55 | -0.28 | 0.39 | 2.64 | 58 | 25.95 | 95 | 92 | 48 | 0 | 0 | 3 | 0 |
| | HOUGHTON LAKE | 61 | 40 | 71 | 34 | 50 | -2 | 0.14 | -0.51 | 0.10 | 2.10 | 57 | 16.82 | 76 | 95 | 55 | 0 | 0 | 3 | 0 |
| | LANSING | 67 | 42 | 84 | 36 | 55 | -1 | 0.87 | 0.21 | 0.58 | 2.14 | 56 | 23.92 | 101 | 94 | 44 | 0 | 0 | 3 | 1 |
| | MARQUETTE | 55 | 35 | 67 | 30 | 45 | -4 | 0.28 | -0.63 | 0.19 | 3.65 | 82 | 33.29 | 126 | 93 | 56 | 0 | 2 | 2 | 0 |
| | MUSKEGON | 64 | 46 | 74 | 38 | 55 | -1 | 0.93 | 0.15 | 0.44 | 3.74 | 89 | 21.06 | 88 | 95 | 58 | 0 | 0 | 4 | 0 |
| MN | DULUTH | 58 | 38 | 73 | 27 | 48 | -2 | 0.40 | -0.35 | 0.28 | 3.33 | 81 | 24.07 | 97 | 97 | 46 | 0 | 2 | 2 | 0 |
| | INT'L FALLS | 59 | 31 | 74 | 21 | 45 | -3 | 0.00 | -0.62 | 0.00 | 0.28 | 8 | 16.28 | 79 | 96 | 41 | 0 | 4 | 0 | 0 |
| | MINNEAPOLIS | 65 | 44 | 78 | 35 | 55 | -1 | 0.27 | -0.29 | 0.25 | 1.34 | 45 | 29.44 | 124 | 89 | 43 | 0 | 0 | 2 | 0 |
| | ROCHESTER | 63 | 43 | 77 | 33 | 53 | -1 | 1.12 | 0.44 | 0.33 | 1.61 | 43 | 26.61 | 107 | 96 | 51 | 0 | 0 | 4 | 0 |
| | ST. CLOUD | 63 | 38 | 77 | 31 | 51 | -2 | 0.44 | -0.18 | 0.43 | 1.25 | 36 | 20.59 | 88 | 94 | 40 | 0 | 1 | 2 | 0 |
| MS | JACKSON | 90 | 70 | 95 | 66 | 80 | 9 | 0.19 | -0.55 | 0.08 | 2.41 | 63 | 40.48 | 97 | 89 | 48 | 5 | 0 | 2 | 0 |
| | MERIDIAN | 87 | 70 | 92 | 65 | 78 | 8 | 1.64 | 0.90 | 1.35 | 2.36 | 62 | 45.99 | 106 | 94 | 57 | 3 | 0 | 3 | 1 |
| | TUPELO | 90 | 68 | 94 | 59 | 79 | 10 | 2.73 | 1.92 | 2.72 | 2.79 | 71 | 39.79 | 95 | 91 | 46 | 4 | 0 | 2 | 1 |
| MO | COLUMBIA | 75 | 57 | 88 | 48 | 66 | 3 | 0.96 | 0.11 | 0.36 | 4.90 | 117 | 35.11 | 114 | 94 | 61 | 0 | 0 | 5 | 0 |
| | KANSAS CITY | 71 | 58 | 84 | 48 | 64 | 2 | 1.84 | 0.83 | 0.65 | 9.47 | 180 | 36.65 | 117 | 93 | 66 | 0 | 0 | 6 | 2 |
| | SAINT LOUIS | 79 | 62 | 90 | 53 | 70 | 5 | 0.10 | -0.57 | 0.09 | 1.96 | 58 | 37.66 | 131 | 81 | 46 | 1 | 0 | 2 | 0 |
| | SPRINGFIELD | 78 | 61 | 88 | 53 | 70 | 6 | 1.41 | 0.43 | 0.88 | 6.22 | 124 | 39.95 | 121 | 97 | 60 | 0 | 0 | 4 | 1 |
| MT | BILLINGS | 67 | 44 | 77 | 38 | 55 | 1 | 0.15 | -0.16 | 0.08 | 1.23 | 82 | 11.98 | 96 | 89 | 40 | 0 | 0 | 2 | 0 |
| | BUTTE | 64 | 31 | 73 | 28 | 48 | 2 | 0.14 | -0.09 | 0.12 | 1.17 | 87 | 13.19 | 125 | 97 | 32 | 0 | 5 | 2 | 0 |
| | GLASGOW | 64 | 42 | 76 | 39 | 53 | 1 | 0.37 | 0.18 | 0.28 | 1.30 | 120 | 10.88 | 112 | 76 | 36 | 0 | 0 | 2 | 0 |
| | GREAT FALLS | 65 | 41 | 72 | 33 | 53 | 0 | 0.01 | -0.23 | 0.01 | 0.89 | 66 | 14.82 | 114 | 82 | 36 | 0 | 0 | 1 | 0 |
| | KALISPELL | 64 | 36 | 71 | 32 | 50 | 2 | 0.57 | 0.33 | 0.57 | 1.89 | 139 | 17.03 | 134 | 98 | 40 | 0 | 1 | 1 | 1 |
| | MILES CITY | 69 | 43 | 81 | 39 | 56 | 2 | 0.28 | 0.02 | 0.24 | 0.67 | 48 | 10.79 | 89 | 75 | 32 | 0 | 0 | 2 | 0 |
| | MISSOULA | 68 | 36 | 74 | 31 | 52 | 2 | 0.23 | 0.02 | 0.21 | 1.40 | 118 | 17.41 | 161 | 96 | 38 | 0 | 1 | 2 | 0 |
| NE | GRAND ISLAND | 69 | 49 | 89 | 42 | 59 | 0 | 0.94 | 0.44 | 0.63 | 0.95 | 31 | 22.56 | 102 | 92 | 50 | 0 | 0 | 3 | 1 |
| | LINCOLN | 71 | 51 | 86 | 41 | 61 | 1 | 0.91 | 0.24 | 0.66 | 2.85 | 76 | 28.55 | 118 | 94 | 56 | 0 | 0 | 3 | 1 |
| | NORFOLK | 68 | 47 | 86 | 33 | 58 | 0 | 0.86 | 0.37 | 0.71 | 1.40 | 53 | 30.10 | 137 | 95 | 51 | 0 | 0 | 3 | 1 |
| | NORTH PLATTE | 66 | 44 | 88 | 39 | 55 | -1 | 0.78 | 0.47 | 0.43 | 1.91 | 112 | 19.98 | 115 | 96 | 47 | 0 | 0 | 3 | 0 |
| | OMAHA | 72 | 51 | 90 | 40 | 62 | 2 | 1.25 | 0.52 | 0.93 | 2.10 | 52 | 38.72 | 145 | 95 | 51 | 1 | 0 | 3 | 1 |
| | SCOTTSBLUFF | 65 | 43 | 87 | 38 | 54 | -2 | 0.36 | 0.12 | 0.17 | 0.77 | 66 | 12.80 | 96 | 92 | 46 | 0 | 0 | 3 | 0 |
| | VALENTINE | 65 | 45 | 88 | 40 | 55 | -1 | 0.65 | 0.37 | 0.43 | 1.16 | 71 | 19.64 | 120 | 90 | 46 | 0 | 0 | 4 | 0 |
| NV | ELY | 65 | 34 | 73 | 28 | 50 | -2 | 0.30 | 0.06 | 0.17 | 0.98 | 87 | 10.02 | 124 | 90 | 23 | 0 | 3 | 3 | 0 |
| | LAS VEGAS | 83 | 62 | 88 | 59 | 73 | -2 | 0.00 | -0.05 | 0.00 | 1.29 | 430 | 6.37 | 206 | 45 | 19 | 0 | 0 | 0 | 0 |
| | RENO | 68 | 46 | 77 | 41 | 57 | 1 | 0.58 | 0.51 | 0.38 | 2.17 | 571 | 10.87 | 205 | 89 | 37 | 0 | 0 | 2 | 0 |
| | WINNEMUCCA | 68 | 43 | 76 | 35 | 55 | 1 | 0.53 | 0.42 | 0.43 | 2.81 | 653 | 13.13 | 224 | 90 | 35 | 0 | 0 | 3 | 0 |
| NH | CONCORD | 68 | 42 | 80 | 32 | 55 | 1 | 0.21 | -0.45 | 0.19 | 1.65 | 53 | 28.88 | 108 | 92 | 40 | 0 | 1 | 2 | 0 |
| NJ | NEWARK | 73 | 54 | 91 | 45 | 64 | 0 | 0.17 | -0.58 | 0.15 | 2.87 | 72 | 39.90 | 118 | 79 | 37 | 1 | 0 | 2 | 0 |
| NM | ALBUQUERQUE | 80 | 57 | 88 | 47 | 68 | 5 | 0.24 | 0.04 | 0.09 | 0.23 | 21 | 7.43 | 105 | 63 | 24 | 0 | 0 | 3 | 0 |
| NY | ALBANY | 66 | 45 | 84 | 35 | 55 | -1 | 0.44 | -0.21 | 0.20 | 2.18 | 67 | 32.33 | 118 | 94 | 51 | 0 | 0 | 3 | 0 |
| | BINGHAMTON | 63 | 44 | 80 | 35 | 54 | -1 | 1.30 | 0.59 | 1.20 | 2.67 | 74 | 33.09 | 118 | 93 | 45 | 0 | 0 | 3 | 1 |
| | BUFFALO | 65 | 49 | 79 | 42 | 57 | 0 | 0.59 | -0.13 | 0.36 | 2.64 | 70 | 29.78 | 105 | 92 | 48 | 0 | 0 | 3 | 0 |
| | ROCHESTER | 63 | 45 | 79 | 37 | 54 | -3 | 0.64 | 0.04 | 0.24 | 3.32 | 103 | 37.82 | 157 | 95 | 55 | 0 | 0 | 5 | 0 |
| | SYRACUSE | 63 | 48 | 77 | 40 | 56 | -1 | 0.48 | -0.33 | 0.25 | 2.85 | 89 | 31.30 | 107 | 92 | 52 | 0 | 0 | 4 | 0 |
| NC | ASHEVILLE | 77 | 56 | 86 | 47 | 66 | 5 | 0.39 | -0.45 | 0.20 | 1.40 | 33 | 40.21 | 108 | 100 | 56 | 0 | 0 | 4 | 0 |
| | CHARLOTTE | 80 | 61 | 87 | 51 | 71 | 3 | 0.64 | -0.15 | 0.37 | 4.16 | 109 | 34.48 | 103 | 91 | 53 | 0 | 0 | 3 | 0 |
| | GREENSBORO | 81 | 60 | 89 | 50 | 71 | 6 | 0.17 | -0.66 | 0.11 | 2.44 | 63 | 40.91 | 123 | 89 | 51 | 0 | 0 | 3 | 0 |
| | HATTERAS | 79 | 68 | 84 | 54 | 73 | 3 | 0.44 | -0.71 | 0.28 | 8.65 | 150 | 56.44 | 134 | 87 | 66 | 0 | 0 | 2 | 0 |
| | RALEIGH | 85 | 60 | 94 | 45 | 73 | 7 | 0.32 | -0.36 | 0.29 | 3.56 | 103 | 44.02 | 135 | 91 | 45 | 2 | 0 | 3 | 0 |
| | WILMINGTON | 84 | 68 | 90 | 57 | 76 | 5 | 0.46 | -0.39 | 0.23 | 5.60 | 104 | 57.55 | 127 | 90 | 55 | 1 | 0 | 2 | 0 |
| ND | BISMARCK | 65 | 37 | 82 | 24 | 51 | -1 | 0.18 | -0.11 | 0.08 | 1.06 | 66 | 19.05 | 139 | 90 | 42 | 0 | 2 | 3 | 0 |
| | DICKINSON | 63 | 39 | 79 | 32 | 51 | -1 | 0.24 | -0.09 | 0.23 | 2.52 | 139 | 19.38 | 134 | 83 | 37 | 0 | 1 | 2 | 0 |
| | FARGO | 64 | 38 | 77 | 30 | 51 | -2 | 0.49 | 0.05 | 0.25 | 2.44 | 112 | 25.06 | 151 | 92 | 40 | 0 | 2 | 4 | 0 |
| | GRAND FORKS | 63 | 31 | 80 | 20 | 47 | -4 | 0.08 | -0.35 | 0.06 | 0.44 | 18 | 15.99 | 101 | 95 | 38 | 0 | 4 | 2 | 0 |
| | JAMESTOWN | 62 | 36 | 78 | 27 | 49 | -3 | 0.17 | -0.15 | 0.11 | 0.68 | 36 | 16.24 | 108 | 96 | 40 | 0 | 2 | 2 | 0 |
| | WILLISTON | 63 | 38 | 77 | 26 | 50 | -1 | 0.31 | 0.05 | 0.31 | 1.20 | 83 | 12.89 | 108 | 86 | 35 | 0 | 2 | 1 | 0 |
| OH | AKRON-CANTON | 67 | 49 | 82 | 38 | 58 | -1 | 0.66 | 0.01 | 0.66 | 1.27 | 36 | 32.68 | 114 | 88 | 48 | 0 | 0 | 1 | 1 |
| | CINCINNATI | 76 | 54 | 89 | 42 | 65 | 3 | 0.52 | -0.12 | 0.52 | 1.19 | 38 | 42.92 | 134 | 85 | 37 | 0 | 0 | 1 | 1 |
| | CLEVELAND | 67 | 50 | 81 | 38 | 59 | 0 | 0.39 | -0.29 | 0.38 | 1.58 | 43 | 27.33 | 97 | 87 | 47 | 0 | 0 | 2 | 0 |
| | COLUMBUS | 73 | 53 | 89 | 41 | 63 | 3 | 1.38 | 0.83 | 0.73 | 1.91 | 60 | 29.91 | 99 | 93 | 40 | 0 | 0 | 3 | 2 |
| | DAYTON | 73 | 53 | 90 | 43 | 63 | 2 | 0.95 | 0.41 | 0.87 | 1.64 | 58 | 32.89 | 116 | 83 | 34 | 1 | 0 | 2 | 1 |
| | MANSFIELD | 68 | 47 | 81 | 35 | 58 | -1 | 0.86 | 0.24 | 0.86 | 1.56 | 43 | 32.41 | 105 | 91 | 45 | 0 | 0 | 1 | 1 |

Based on 1961-90 normals

## Weather Data for the Week Ending October 3, 1998

| STATES AND STATIONS | | TEMPERATURE °F | | | | | | PRECIPITATION | | | | | | | RELATIVE HUMIDITY, PERCENT | | NUMBER OF DAYS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | TEMP, °F | | PRECIP. | |
| | | AVERAGE MAXIMUM | AVERAGE MINIMUM | EXTREME HIGH | EXTREME LOW | AVERAGE | DEPARTURE FROM NORMAL | WEEKLY TOTAL, IN. | DEPARTURE FROM NORMAL | GREATEST IN 24-HOUR, IN. | TOTAL, IN., SINCE Sep 1 | PCT. NORMAL SINCE Sep 1 | TOTAL, IN., SINCE Jan 1 | PCT. NORMAL SINCE Jan 1 | AVERAGE MAXIMUM | AVERAGE MINIMUM | 90 AND ABOVE | 32 AND BELOW | .01 INCH OR MORE | .50 INCH OR MORE |
| | TOLEDO | 69 | 48 | 84 | 38 | 59 | 1 | 0.48 | -0.07 | 0.28 | 1.28 | 42 | 28.58 | 113 | 91 | 38 | 0 | 0 | 4 | 0 |
| | YOUNGSTOWN | 67 | 47 | 80 | 39 | 57 | -1 | 1.14 | 0.44 | 0.74 | 3.12 | 83 | 30.56 | 105 | 93 | 48 | 0 | 0 | 3 | 1 |
| OK | OKLAHOMA CITY | 84 | 65 | 95 | 59 | 75 | 7 | 1.98 | 1.10 | 0.74 | 5.61 | 134 | 25.10 | 93 | 97 | 62 | 4 | 0 | 3 | 3 |
| | TULSA | 83 | 66 | 94 | 57 | 75 | 6 | 2.17 | 1.15 | 0.98 | 6.97 | 137 | 34.51 | 108 | 96 | 60 | 3 | 0 | 4 | 2 |
| OR | ASTORIA | 63 | 48 | 74 | 45 | 55 | -1 | 1.32 | 0.41 | 0.55 | 1.95 | 59 | 47.46 | 117 | 98 | 60 | 0 | 0 | 5 | 1 |
| | BURNS | 70 | 34 | 79 | 28 | 52 | 1 | 0.01 | -0.13 | 0.01 | 1.04 | 160 | 12.86 | 186 | 82 | 20 | 0 | 3 | 1 | 0 |
| | EUGENE | 70 | 46 | 81 | 40 | 58 | -1 | 0.38 | -0.08 | 0.32 | 0.72 | 39 | 28.54 | 98 | 96 | 45 | 0 | 0 | 4 | 0 |
| | MEDFORD | 77 | 47 | 88 | 44 | 62 | 1 | 0.24 | 0.00 | 0.10 | 0.26 | 27 | 18.22 | 167 | 87 | 29 | 0 | 0 | 4 | 0 |
| | PENDLETON | 73 | 47 | 79 | 42 | 60 | 2 | 0.02 | -0.13 | 0.02 | 1.13 | 171 | 10.17 | 126 | 89 | 37 | 0 | 0 | 1 | 0 |
| | PORTLAND | 70 | 51 | 82 | 48 | 61 | 2 | 0.78 | 0.32 | 0.47 | 1.87 | 97 | 26.89 | 120 | 92 | 43 | 0 | 0 | 3 | 0 |
| | SALEM | 69 | 48 | 81 | 42 | 58 | 1 | 0.32 | -0.13 | 0.12 | 0.99 | 57 | 29.49 | 127 | 94 | 48 | 0 | 0 | 4 | 0 |
| PA | ALLENTOWN | 70 | 45 | 88 | 37 | 57 | -2 | 0.45 | -0.31 | 0.30 | 3.30 | 78 | 33.49 | 100 | 94 | 43 | 0 | 0 | 4 | 0 |
| | ERIE | 66 | 53 | 78 | 46 | 60 | 1 | 0.26 | -0.68 | 0.10 | 1.83 | 38 | 26.50 | 87 | 87 | 48 | 0 | 0 | 4 | 0 |
| | MIDDLETOWN | 75 | 51 | 91 | 43 | 63 | 2 | 0.66 | -0.08 | 0.63 | 2.44 | 64 | 42.44 | 136 | 87 | 35 | 1 | 0 | 2 | 1 |
| | PHILADELPHIA | 75 | 55 | 90 | 44 | 65 | 2 | 0.29 | -0.38 | 0.21 | 2.07 | 56 | 28.04 | 87 | 79 | 37 | 1 | 0 | 2 | 0 |
| | PITTSBURGH | 70 | 51 | 83 | 40 | 60 | 2 | 0.72 | 0.12 | 0.71 | 1.80 | 56 | 29.33 | 101 | 86 | 40 | 0 | 0 | 2 | 1 |
| | WILKES-BARRE | 67 | 46 | 85 | 38 | 56 | -1 | 0.25 | -0.44 | 0.21 | 2.71 | 75 | 30.19 | 107 | 93 | 44 | 0 | 0 | 2 | 0 |
| | WILLIAMSPORT | 69 | 46 | 84 | 36 | 57 | -1 | 0.62 | -0.13 | 0.32 | 1.93 | 52 | 35.88 | 116 | 96 | 37 | 0 | 0 | 4 | 0 |
| RI | PROVIDENCE | 72 | 49 | 85 | 41 | 60 | 1 | 0.25 | -0.54 | 0.12 | 2.40 | 63 | 44.99 | 135 | 90 | 42 | 0 | 0 | 3 | 0 |
| SC | BEAUFORT | 85 | 71 | 88 | 67 | 78 | 5 | 0.26 | -0.55 | 0.07 | 5.64 | 106 | 45.18 | 104 | 96 | 67 | 0 | 0 | 2 | 0 |
| | CHARLESTON | 84 | 69 | 88 | 64 | 77 | 5 | 0.22 | -0.61 | 0.20 | 14.76 | 292 | 61.26 | 141 | 96 | 63 | 0 | 0 | 3 | 0 |
| | COLUMBIA | 83 | 65 | 89 | 53 | 74 | 5 | 0.52 | -0.19 | 0.37 | 6.58 | 166 | 42.84 | 105 | 90 | 57 | 0 | 0 | 2 | 0 |
| | GREENVILLE | 79 | 62 | 88 | 52 | 70 | 4 | 2.82 | 1.89 | 1.75 | 6.06 | 139 | 44.33 | 111 | 94 | 58 | 0 | 0 | 3 | 2 |
| SD | ABERDEEN | 65 | 40 | 83 | 24 | 53 | -2 | 0.20 | -0.16 | 0.20 | 0.26 | 13 | 19.81 | 120 | 92 | 40 | 0 | 2 | 1 | 0 |
| | HURON | 67 | 42 | 87 | 28 | 55 | -1 | 0.23 | -0.16 | 0.00 | 0.23 | 12 | 18.20 | 104 | 92 | 42 | 0 | 2 | 1 | 0 |
| | RAPID CITY | 63 | 41 | 83 | 37 | 52 | -3 | 0.44 | 0.18 | 0.44 | 1.95 | 144 | 14.81 | 101 | 88 | 44 | 0 | 0 | 1 | 0 |
| | SIOUX FALLS | 65 | 43 | 83 | 27 | 54 | -1 | 0.84 | 0.26 | 0.34 | 1.86 | 57 | 23.09 | 113 | 96 | 46 | 0 | 1 | 4 | 0 |
| TN | BRISTOL | 82 | 54 | 88 | 40 | 68 | 5 | 0.32 | -0.36 | 0.22 | 1.12 | 32 | 35.70 | 111 | 98 | 43 | 0 | 0 | 4 | 0 |
| | CHATTANOOGA | 82 | 65 | 91 | 56 | 74 | 7 | 0.75 | -0.10 | 0.58 | 1.64 | 37 | 44.11 | 108 | 94 | 52 | 1 | 0 | 2 | 1 |
| | KNOXVILLE | 81 | 61 | 89 | 53 | 71 | 6 | 0.31 | -0.36 | 0.13 | 1.44 | 43 | 44.16 | 122 | 92 | 52 | 0 | 0 | 3 | 0 |
| | MEMPHIS | 89 | 68 | 95 | 58 | 79 | 10 | 0.91 | 0.20 | 0.45 | 2.40 | 63 | 44.35 | 115 | 90 | 48 | 5 | 0 | 4 | 0 |
| | NASHVILLE | 87 | 65 | 93 | 52 | 76 | 9 | 0.91 | 0.24 | 0.91 | 2.30 | 62 | 42.20 | 116 | 89 | 41 | 4 | 0 | 1 | 1 |
| TX | ABILENE | 96 | 70 | 99 | 69 | 83 | 11 | 0.04 | -0.65 | 0.04 | 0.11 | 3 | 9.97 | 51 | 86 | 32 | 7 | 0 | 1 | 0 |
| | AMARILLO | 86 | 58 | 95 | 49 | 72 | 7 | 1.12 | 0.75 | 0.71 | 2.17 | 101 | 10.86 | 63 | 91 | 35 | 3 | 0 | 4 | 1 |
| | AUSTIN | 93 | 75 | 96 | 73 | 84 | 7 | 0.16 | -0.68 | 0.16 | 6.76 | 185 | 21.12 | 86 | 96 | 53 | 7 | 0 | 1 | 0 |
| | BEAUMONT | 92 | 73 | 95 | 71 | 83 | 8 | 0.10 | -1.15 | 0.10 | 13.28 | 196 | 46.81 | 107 | 95 | 54 | 6 | 0 | 1 | 0 |
| | BROWNSVILLE | 92 | 75 | 93 | 74 | 83 | 4 | 0.15 | -1.01 | 0.01 | 7.96 | 124 | 12.39 | 58 | 98 | 59 | 7 | 0 | 2 | 0 |
| | CORPUS CHRISTI | 92 | 75 | 95 | 74 | 84 | 5 | 0.02 | -1.08 | 0.02 | 8.49 | 143 | 19.38 | 79 | 98 | 58 | 7 | 0 | 1 | 0 |
| | DEL RIO | 91 | 73 | 94 | 71 | 82 | 6 | 0.00 | -0.66 | 0.00 | 1.51 | 49 | 25.33 | 171 | 88 | 48 | 7 | 0 | 0 | 0 |
| | EL PASO | 89 | 64 | 93 | 60 | 76 | 6 | 0.50 | 0.20 | 0.38 | 0.78 | 43 | 4.07 | 56 | 62 | 27 | 4 | 0 | 2 | 0 |
| | FORT WORTH | 92 | 72 | 97 | 64 | 82 | 9 | 3.62 | 2.77 | 3.54 | 4.30 | 116 | 22.89 | 87 | 92 | 47 | 5 | 0 | 2 | 1 |
| | GALVESTON | 92 | 79 | 96 | 76 | 85 | 8 | 0.10 | -0.97 | 0.10 | 12.97 | 206 | 40.17 | 122 | 97 | 63 | 4 | 0 | 1 | 0 |
| | HOUSTON | 94 | 73 | 98 | 70 | 83 | 9 | 0.00 | -1.11 | 0.00 | 10.16 | 190 | 32.79 | 94 | 97 | 51 | 7 | 0 | 0 | 0 |
| | LUBBOCK | 89 | 64 | 93 | 59 | 76 | 10 | 1.17 | 0.62 | 0.98 | 1.16 | 41 | 10.60 | 68 | 88 | 31 | 5 | 0 | 3 | 1 |
| | MIDLAND | 93 | 67 | 95 | 64 | 80 | 11 | 0.05 | -0.51 | 0.05 | 0.13 | 5 | 3.18 | 26 | 84 | 25 | 6 | 0 | 1 | 0 |
| | SAN ANGELO | 93 | 68 | 95 | 63 | 80 | 9 | 0.00 | -0.75 | 0.00 | 0.10 | 3 | 9.05 | 55 | 88 | 35 | 7 | 0 | 0 | 0 |
| | SAN ANTONIO | 91 | 73 | 94 | 70 | 82 | 7 | 0.00 | -0.80 | 0.00 | 1.58 | 42 | 20.22 | 84 | 93 | 49 | 5 | 0 | 0 | 0 |
| | VICTORIA | 92 | 76 | 95 | 74 | 83 | 7 | 0.39 | -0.77 | 0.39 | 10.72 | 177 | 24.81 | 83 | 96 | 57 | 6 | 0 | 1 | 0 |
| | WACO | 94 | 73 | 96 | 69 | 83 | 9 | 0.12 | -0.75 | 0.12 | 4.83 | 127 | 20.89 | 85 | 95 | 47 | 7 | 0 | 1 | 0 |
| | WICHITA FALLS | 94 | 70 | 99 | 65 | 82 | 11 | 0.19 | -0.64 | 0.09 | 0.41 | 10 | 16.30 | 69 | 88 | 39 | 5 | 0 | 1 | 0 |
| UT | SALT LAKE CITY | 72 | 50 | 80 | 44 | 61 | 1 | 0.56 | 0.23 | 0.40 | 2.01 | 142 | 20.48 | 167 | 84 | 35 | 0 | 0 | 4 | 0 |
| VT | BURLINGTON | 63 | 47 | 78 | 36 | 55 | 1 | 2.35 | 1.67 | 1.69 | 6.09 | 170 | 47.06 | 179 | 86 | 51 | 0 | 0 | 4 | 1 |
| VA | LYNCHBURG | 81 | 55 | 92 | 40 | 68 | 5 | 0.14 | -0.66 | 0.13 | 1.59 | 44 | 41.74 | 134 | 93 | 38 | 2 | 0 | 2 | 0 |
| | NORFOLK | 81 | 64 | 91 | 50 | 73 | 6 | 0.42 | -0.38 | 0.16 | 2.33 | 55 | 45.94 | 129 | 80 | 46 | 1 | 0 | 4 | 0 |
| | RICHMOND | 82 | 58 | 95 | 45 | 70 | 6 | 0.93 | 0.16 | 0.69 | 3.90 | 106 | 39.97 | 119 | 85 | 39 | 2 | 0 | 2 | 1 |
| | ROANOKE | 81 | 58 | 92 | 42 | 69 | 7 | 0.05 | -0.79 | 0.04 | 1.10 | 28 | 40.37 | 128 | 80 | 34 | 2 | 0 | 1 | 0 |
| | WASH/DULLES | 80 | 49 | 96 | 32 | 65 | 3 | 0.08 | -0.65 | 0.08 | 1.34 | 37 | 33.27 | 108 | 91 | 31 | 1 | 1 | 1 | 0 |
| WA | HANFORD | 80 | 48 | 85 | 43 | 64 | -- | 0.00 | -- | 0.00 | 0.10 | -- | 4.44 | -- | 80 | 27 | 0 | 0 | 0 | 0 |
| | OLYMPIA | 67 | 42 | 75 | 38 | 55 | 1 | 0.68 | 0.00 | 0.41 | 0.96 | 38 | 27.48 | 90 | 99 | 49 | 0 | 0 | 5 | 0 |
| | QUILLAYUTE | 61 | 43 | 72 | 36 | 52 | -2 | 1.65 | -0.04 | 1.19 | 2.17 | 38 | 50.04 | 77 | 100 | 66 | 0 | 0 | 3 | 1 |
| | SEATTLE-TACOMA | 65 | 50 | 70 | 49 | 58 | 1 | 0.47 | -0.07 | 0.35 | 1.19 | 56 | 20.38 | 91 | 97 | 53 | 0 | 0 | 4 | 0 |
| | SPOKANE | 70 | 44 | 77 | 35 | 57 | 3 | 0.01 | -0.16 | 0.01 | 0.24 | 31 | 10.44 | 95 | 90 | 31 | 0 | 0 | 1 | 0 |
| | YAKIMA | 72 | 39 | 80 | 29 | 56 | 0 | 0.06 | -0.02 | 0.00 | 0.12 | 29 | 7.05 | 137 | 92 | 33 | 0 | 1 | 1 | 0 |
| WV | BECKLEY | 73 | 51 | 81 | 36 | 62 | 4 | 0.30 | -0.42 | 0.16 | 2.08 | 57 | 40.29 | 125 | 98 | 46 | 0 | 0 | 3 | 0 |
| | CHARLESTON | 76 | 53 | 86 | 39 | 64 | 2 | 0.33 | -0.34 | 0.33 | 2.83 | 81 | 41.95 | 127 | 99 | 44 | 0 | 0 | 1 | 0 |
| | ELKINS | 71 | 45 | 80 | 32 | 58 | 1 | 0.52 | -0.25 | 0.41 | 3.72 | 91 | 41.07 | 117 | 100 | 48 | 0 | 1 | 5 | 0 |
| | HUNTINGTON | 77 | 55 | 90 | 41 | 66 | 4 | 0.17 | -0.45 | 0.17 | 0.86 | 27 | 36.24 | 112 | 94 | 34 | 1 | 0 | 1 | 0 |
| WI | EAU CLAIRE | 63 | 42 | 76 | 34 | 53 | -1 | 0.32 | -0.42 | 0.30 | 1.57 | 37 | 26.50 | 99 | 96 | 41 | 0 | 0 | 2 | 0 |
| | GREEN BAY | 65 | 43 | 78 | 33 | 54 | 0 | 0.24 | -0.42 | 0.24 | 3.54 | 95 | 25.24 | 109 | 93 | 51 | 0 | 0 | 1 | 0 |
| | MADISON | 65 | 44 | 78 | 35 | 55 | 0 | 0.79 | 0.16 | 0.28 | 2.97 | 82 | 34.99 | 140 | 97 | 54 | 0 | 0 | 4 | 0 |
| | MILWAUKEE | 67 | 50 | 78 | 40 | 59 | 2 | 1.34 | 0.67 | 0.43 | 2.91 | 80 | 29.12 | 112 | 86 | 53 | 0 | 0 | 4 | 0 |
| WY | CASPER | 68 | 39 | 81 | 35 | 54 | 1 | 0.06 | -0.18 | 0.03 | 0.85 | 82 | 9.41 | 92 | 89 | 51 | 0 | 0 | 3 | 0 |
| | CHEYENNE | 63 | 43 | 80 | 39 | 53 | 0 | 0.15 | -0.09 | 0.09 | 0.64 | 47 | 8.93 | 70 | 85 | 48 | 0 | 0 | 2 | 0 |
| | LANDER | 67 | 43 | 75 | 38 | 55 | 2 | 1.44 | 1.16 | 1.01 | 2.80 | 233 | 13.94 | 131 | 79 | 36 | 0 | 0 | 3 | 1 |
| | SHERIDAN | 64 | 38 | 76 | 34 | 51 | -1 | 0.58 | 0.26 | 0.47 | 3.26 | 217 | 14.31 | 120 | 98 | 51 | 0 | 0 | 3 | 0 |

**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

**September 28 - October 4, 1998**

## *HIGHLIGHTS*

**Crops continued to rapidly mature across most of the southern United States, as parts of the southern Plains, lower Mississippi Valley, and Southeast experienced record-high temperatures. The harvest pace gained momentum in the Corn Belt and Great Plains due to dry weather. Heavy rains from Hurricane Georges damaged crops and halted fieldwork along the eastern Gulf coast. Late-week rains also halted fieldwork in the central Great Plains, but the moisture aided germination and growth of winter wheat. Temperatures were unseasonably cool in the Southwest, but crops continued to quickly mature. Below-normal temperatures slowed crop development across the northern Great Plains and western Great Lakes region.**

**Corn:** Ninety-five percent of the Nation's corn has reached maturity and 31 percent has been harvested, more than 1 week ahead of normal for both categories. Normally by this date, 80 percent would be mature and 16 percent would be harvested. Cooler weather slowed crop maturation across the northern Corn Belt and adjacent areas of the Great Plains. However, the crop continued to rapidly develop in the eastern Corn Belt and central High Plains. Scattered late-week rains interfered with harvest progress in the western Corn Belt, but caused little or no delays in the eastern Corn Belt. Farmers made good harvest progress in the central Great Plains before heavy rains halted combines in most of Kansas and Oklahoma.

**Soybeans:** Eighty-eight percent of the Nation's soybeans were dropping leaves, compared with the previous week's 80 percent and the average rate of 79 percent. The crop continued to rapidly progress in the Mississippi Delta region and, to a lesser extent, across the Southeast. Cooler weather contributed to slower progress across most of the Corn Belt, but most fields were approaching maturity anyway. Harvest progress advanced 21 percentage points, to 41 percent, nearly 1 week ahead of the 5-year average for this date. Dry weather for most of the week aided harvest efforts across the Corn Belt, especially in Ohio and Minnesota. Growers in the Southeast were just beginning to harvest their soybeans.

**Cotton:** Fields with bolls opening reached 87 percent, 1 week ahead of normal. Development slowed in the southern Plains and Southeast, where progress was nearly complete. In California, development rapidly advanced in spite of below-normal temperatures. Nationally, 34 percent has been harvested, compared with 23 percent normally harvested by this date. Harvesting accelerated early in the week, but was halted along the eastern Gulf coast when Hurricane Georges came ashore. Farmers in the lower Mississippi Valley, unhindered by Georges' heavy rains, made excellent progress, especially in Louisiana, where growers harvested nearly half of their cotton. Heavy rain and severe flooding damaged cotton fields along the eastern Gulf coast.

**Winter Wheat:** Seeding advanced 14 percentage points, to 47 percent, but remained behind average as late-week rains slowed momentum. Most farmers welcomed the rain in spite of the planting delays, as moisture was needed to germinate seeds. Emergence reached 25 percent, up from 15 percent the previous week, but below the 29 percent average.

**Rice:** Harvest progressed to 80 percent complete, compared with the normal pace of 75 percent. Harvest activity continued at a steady rate in the Delta rice-producing areas. In California, the pace accelerated but remained well behind normal.

**Sorghum:** Eighty-five percent of the crop has matured, compared with 76 percent a week ago and 72 percent normally mature by this date. Warm weather aided development in the Great Plains and southern Corn Belt. Harvest accelerated, advancing 7 percentage points, to 41 percent, less than 1 week ahead of the 5-year average. Harvest activity slowed in most areas of the Delta States and accelerated in the central and northern Great Plains. Crop development and harvest progress fell behind normal in the southern Plains.

**Peanuts:** Harvesting advanced 7 percentage points, to 28 percent, well behind the 39 percent normal pace. Progress fell further behind normal in the major peanut-producing States in the Southeast due to heavy rains and flooding from Hurricane Georges. Harvest was active in the middle Atlantic Coast States, allowing progress to remain near normal. In the southern Plains, the harvest pace was slow, but remained nearly a week ahead of the 5-year average.

# Crop Progress and Condition

## Week Ending October 4, 1998

### Soybeans Percent Dropping Leaves

| | Oct 4 1998 | Prev Week | Prev Year | 5-Yr Avg |
|---|---|---|---|---|
| AL | 71 | 58 | 66 | 54 |
| AR | 56 | 42 | 38 | 36 |
| GA | 50 | 40 | 74 | 61 |
| IL | 84 | 77 | 89 | 84 |
| IN | 96 | 92 | 93 | 91 |
| IA | 98 | 88 | 96 | 87 |
| KS | 94 | 90 | 88 | 83 |
| KY | 69 | 60 | 53 | 54 |
| LA | 91 | 81 | 88 | 73 |
| MI | 91 | 81 | 67 | 79 |
| MN | 99 | 98 | 99 | 89 |
| MS | 88 | 79 | 76 | 70 |
| MO | 80 | 60 | 79 | 65 |
| NE | 98 | 92 | 97 | 92 |
| NC | 35 | 25 | 28 | 32 |
| OH | 97 | 90 | 86 | 90 |
| SC | 15 | 12 | 23 | 14 |
| SD | 100 | 96 | 98 | 92 |
| TN | 78 | 55 | 55 | 56 |
| ALL | 88 | 80 | 84 | 79 |

These 19 States planted 93% of last year's soybean acreage.

### Soybeans Percent Harvested

| | Oct 4 1998 | Prev Week | Prev Year | 5-Yr Avg |
|---|---|---|---|---|
| AL | 16 | 6 | 7 | 7 |
| AR | 20 | 11 | 13 | 10 |
| GA | 4 | 1 | 6 | 4 |
| IL | 37 | 17 | 41 | 30 |
| IN | 45 | 20 | 24 | 25 |
| IA | 51 | 24 | 49 | 29 |
| KS | 20 | 13 | 27 | 18 |
| KY | 22 | 10 | 10 | 7 |
| LA | 65 | 47 | 57 | 38 |
| MI | 29 | 10 | 7 | 12 |
| MN | 68 | 36 | 61 | 24 |
| MS | 62 | 49 | 45 | 32 |
| MO | 19 | 7 | 22 | 12 |
| NE | 36 | 14 | 26 | 28 |
| NC | 2 | 0 | 3 | 2 |
| OH | 55 | 20 | 17 | 22 |
| SC | 1 | 0 | 2 | 1 |
| SD | 43 | 21 | 32 | 20 |
| TN | 15 | 2 | 5 | 5 |
| ALL | 41 | 20 | 33 | 22 |

These 19 States planted 93% of last year's soybean acreage.

### Winter Wheat Percent Planted

| | Oct 4 1998 | Prev Week | Prev Year | 5-Yr Avg |
|---|---|---|---|---|
| AR | 3 | 1 | 4 | 6 |
| CA | 0 | 0 | 0 | 1 |
| CO | 88 | 76 | 91 | 85 |
| GA | 1 | 1 | 1 | 3 |
| ID | 48 | 27 | 56 | 49 |
| IL | 7 | 1 | 11 | 10 |
| IN | 24 | 7 | 19 | 18 |
| KS | 42 | 21 | 56 | 54 |
| MI | 48 | 24 | 37 | 36 |
| MO | 12 | 3 | 18 | 15 |
| MT | 49 | 40 | 75 | 59 |
| NE | 91 | 80 | 90 | 88 |
| NC | 15 | 10 | 10 | 14 |
| OH | 34 | 6 | 17 | 21 |
| OK | 32 | 17 | 55 | 54 |
| OR | 27 | 13 | 46 | 40 |
| SD | 88 | 74 | 94 | 88 |
| TX | 52 | 45 | 58 | 57 |
| WA | 73 | 70 | 88 | 77 |
| ALL | 47 | 33 | 57 | 54 |

These 19 States planted 91% of last year's winter wheat acreage.

### Winter Wheat Percent Emerged

| | Oct 4 1998 | Prev Week | Prev Year | 5-Yr Avg |
|---|---|---|---|---|
| AR | 1 | 0 | 1 | 2 |
| CA | 0 | 0 | 0 | 0 |
| CO | 65 | 45 | 72 | 59 |
| GA | 0 | 0 | 0 | 1 |
| ID | 16 | 8 | 24 | 18 |
| IL | 1 | 0 | 1 | 2 |
| IN | 2 | 1 | 5 | 3 |
| KS | 23 | 9 | 26 | 27 |
| MI | 15 | 3 | 9 | 12 |
| MO | 2 | 0 | 3 | 3 |
| MT | 16 | 4 | 37 | 19 |
| NE | 67 | 46 | 65 | 60 |
| NC | 0 | 0 | 0 | 0 |
| OH | 2 | 0 | 1 | 2 |
| OK | 7 | 3 | 20 | 19 |
| OR | 10 | 2 | 19 | 14 |
| SD | 66 | 40 | 68 | 64 |
| TX | 25 | 17 | 33 | 33 |
| WA | 63 | 55 | 70 | 60 |
| ALL | 25 | 15 | 31 | 29 |

These 19 States planted 91% of last year's winter wheat acreage.

### Cotton Percent Bolls Opening

| | Oct 4 1998 | Prev Week | Prev Year | 5-Yr Avg |
|---|---|---|---|---|
| AL | 90 | 85 | 70 | 79 |
| AZ | 95 | 93 | 100 | 100 |
| AR | 93 | 86 | 88 | 87 |
| CA | 75 | 60 | 100 | 99 |
| GA | 85 | 79 | 76 | 83 |
| LA | 100 | 100 | 96 | 97 |
| MS | 100 | 100 | 88 | 95 |
| MO | 100 | 100 | 95 | 89 |
| NM | 80 | 74 | 83 | 87 |
| NC | 95 | 90 | 77 | 92 |
| OK | 97 | 96 | 60 | 58 |
| SC | 88 | 85 | 76 | 84 |
| TN | 100 | 99 | 91 | 97 |
| TX | 81 | 77 | 74 | 68 |
| ALL | 87 | 82 | 81 | 81 |

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

### Cotton Percent Harvested

| | Oct 4 1998 | Prev Week | Prev Year | 5-Yr Avg |
|---|---|---|---|---|
| AL | 42 | 20 | 8 | 18 |
| AZ | 13 | 9 | 29 | 23 |
| AR | 31 | 15 | 14 | 20 |
| CA | 1 | 0 | 14 | 9 |
| GA | 18 | 15 | 9 | 18 |
| LA | 71 | 24 | 37 | 44 |
| MS | 59 | 35 | 19 | 34 |
| MO | 27 | 15 | 18 | 21 |
| NM | 3 | 0 | 3 | 2 |
| NC | 25 | 10 | 3 | 13 |
| OK | 16 | 5 | 1 | 6 |
| SC | 30 | 23 | 8 | 17 |
| TN | 38 | 22 | 12 | 21 |
| TX | 39 | 34 | 23 | 26 |
| ALL | 34 | 23 | 18 | 23 |

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

### Rice Percent Harvested

| | Oct 4 1998 | Prev Week | Prev Year | 5-Yr Avg |
|---|---|---|---|---|
| AR | 86 | 72 | 74 | 75 |
| CA | 30 | 20 | 69 | 40 |
| LA | 99 | 99 | 95 | 96 |
| MS | 93 | 86 | 81 | 79 |
| TX | 97 | 96 | 92 | 94 |
| ALL | 80 | 71 | 79 | 75 |

These 5 States planted 96% of last year's rice acreage.

# Crop Progress and Condition

## Week Ending October 4, 1998

### Corn Percent Mature

| | Oct 4 1998 | Prev Week | Prev Year | 5-Yr Avg |
|---|---|---|---|---|
| CO | 86 | 70 | 78 | 68 |
| GA | 100 | 100 | 100 | 100 |
| IL | 95 | 85 | 82 | 87 |
| IN | 95 | 85 | 81 | 84 |
| IA | 99 | 97 | 94 | 84 |
| KS | 99 | 93 | 95 | 91 |
| KY | 98 | 92 | 80 | 89 |
| MI | 94 | 88 | 23 | 51 |
| MN | 99 | 97 | 85 | 74 |
| MO | 96 | 91 | 97 | 91 |
| NE | 97 | 92 | 83 | 84 |
| NC | 100 | 95 | 99 | 100 |
| OH | 84 | 68 | 30 | 57 |
| PA | 60 | 40 | 47 | 51 |
| SD | 96 | 88 | 81 | 74 |
| TX | 100 | 97 | 95 | 97 |
| WI | 95 | 91 | 46 | 59 |
| ALL | 95 | 89 | 79 | 80 |

These 17 States planted 90% of last year's corn acreage.

### Corn Percent Harvested

| | Oct 4 1998 | Prev Week | Prev Year | 5-Yr Avg |
|---|---|---|---|---|
| CO | 13 | 6 | 9 | 9 |
| GA | 96 | 95 | 94 | 93 |
| IL | 33 | 22 | 12 | 15 |
| IN | 19 | 14 | 5 | 12 |
| IA | 19 | 13 | 7 | 9 |
| KS | 66 | 53 | 44 | 39 |
| KY | 69 | 59 | 32 | 44 |
| MI | 23 | 11 | 2 | 7 |
| MN | 29 | 18 | 5 | 7 |
| MO | 52 | 42 | 47 | 36 |
| NE | 31 | 21 | 10 | 10 |
| NC | 90 | 75 | 70 | 73 |
| OH | 15 | 9 | 1 | 7 |
| PA | 18 | 7 | 10 | 11 |
| SD | 23 | 14 | 6 | 6 |
| TX | 88 | 84 | 85 | 84 |
| WI | 17 | 10 | 4 | 7 |
| ALL | 31 | 22 | 14 | 16 |

These 17 States planted 90% of last year's corn acreage.

### Sorghum Percent Mature

| | Oct 4 1998 | Prev Week | Prev Year | 5-Yr Avg |
|---|---|---|---|---|
| AR | 98 | 96 | 95 | 97 |
| CO | 51 | 30 | 13 | 34 |
| IL | 61 | 42 | 66 | 66 |
| KS | 90 | 78 | 70 | 65 |
| LA | 100 | 100 | 100 | 99 |
| MS | 100 | 100 | 95 | 99 |
| MO | 89 | 81 | 82 | 74 |
| NE | 94 | 89 | 85 | 73 |
| NM | 20 | 8 | 13 | 28 |
| OK | 61 | 35 | 65 | 39 |
| SD | 91 | 76 | 84 | 74 |
| TX | 85 | 82 | 85 | 87 |
| ALL | 85 | 76 | 75 | 72 |

These 12 States planted 99% of last year's sorghum acreage.

### Sorghum Percent Harvested

| | Oct 4 1998 | Prev Week | Prev Year | 5-Yr Avg |
|---|---|---|---|---|
| AR | 94 | 83 | 80 | 82 |
| CO | 3 | 1 | 2 | 5 |
| IL | 7 | 3 | 4 | 6 |
| KS | 31 | 20 | 21 | 18 |
| LA | 100 | 98 | 98 | 93 |
| MS | 100 | 97 | 91 | 90 |
| MO | 43 | 38 | 34 | 32 |
| NE | 13 | 5 | 11 | 9 |
| NM | 0 | 0 | 2 | 4 |
| OK | 20 | 18 | 11 | 13 |
| SD | 31 | 15 | 11 | 9 |
| TX | 63 | 61 | 61 | 70 |
| ALL | 41 | 34 | 35 | 36 |

These 12 States planted 99% of last year's sorghum acreage.

### Peanuts Percent Harvested

| | Oct 4 1998 | Prev Week | Prev Year | 5-Yr Avg |
|---|---|---|---|---|
| AL | 27 | 24 | 73 | 58 |
| FL | 26 | 22 | 76 | 27 |
| GA | 32 | 23 | 63 | 56 |
| NC | 20 | 5 | 9 | 16 |
| OK | 11 | 5 | 11 | 15 |
| SC | 29 | 20 | 43 | 38 |
| TX | 26 | 20 | 26 | 15 |
| VA | 38 | 15 | 24 | 41 |
| ALL | 28 | 19 | 47 | 39 |

These 8 States planted 99% of last year's peanut acreage.

### Cotton Crop Condition by Percent

| | VP | P | F | G | EX |
|---|---|---|---|---|---|
| AL | 15 | 18 | 46 | 20 | 1 |
| AZ | 3 | 15 | 45 | 27 | 10 |
| AR | 6 | 19 | 37 | 31 | 7 |
| CA | 0 | 10 | 45 | 45 | 0 |
| GA | 12 | 25 | 36 | 23 | 4 |
| LA | 17 | 26 | 33 | 21 | 3 |
| MS | 4 | 12 | 39 | 42 | 3 |
| MO | 15 | 25 | 41 | 19 | 0 |
| NM | 1 | 7 | 23 | 48 | 21 |
| NC | 1 | 6 | 20 | 68 | 5 |
| OK | 9 | 15 | 12 | 58 | 6 |
| SC | 7 | 20 | 43 | 30 | 0 |
| TN | 4 | 12 | 36 | 37 | 11 |
| TX | 24 | 30 | 29 | 15 | 2 |
| ALL | 14 | 22 | 34 | 27 | 3 |
| Prev Wk | 13 | 19 | 36 | 28 | 4 |
| Prev Yr | 2 | 9 | 32 | 47 | 10 |

### Peanuts Crop Condition by Percent

| | VP | P | F | G | EX |
|---|---|---|---|---|---|
| AL | 6 | 25 | 44 | 24 | 1 |
| FL | 0 | 2 | 43 | 55 | 0 |
| GA | 6 | 15 | 37 | 34 | 8 |
| NC | 0 | 1 | 5 | 86 | 8 |
| OK | 5 | 15 | 38 | 42 | 0 |
| SC | 14 | 28 | 42 | 16 | 0 |
| TX | 12 | 12 | 33 | 34 | 9 |
| VA | 3 | 16 | 27 | 54 | 0 |
| ALL | 6 | 14 | 34 | 40 | 6 |
| Prev Wk | 8 | 14 | 31 | 41 | 6 |
| Prev Yr | 7 | 17 | 43 | 30 | 3 |

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

# Crop Progress and Condition

## Week Ending October 4, 1998

**Pasture and Range Crop Condition by Percent**
**Week Ending Oct 4, 1998**

| | VP | P | F | G | EX | | VP | P | F | G | EX |
|---|---|---|---|---|---|---|---|---|---|---|---|
| AL | 9 | 22 | 42 | 26 | 1 | NH | 0 | 3 | 24 | 59 | 14 |
| AZ | 4 | 9 | 22 | 51 | 14 | NJ | 0 | 35 | 35 | 30 | 0 |
| AR | 10 | 32 | 41 | 17 | 0 | NM | 9 | 28 | 37 | 24 | 2 |
| CA | 0 | 15 | 20 | 65 | 0 | NY | 0 | 16 | 25 | 59 | 0 |
| CO | 1 | 7 | 31 | 54 | 7 | NC | 28 | 23 | 29 | 19 | 1 |
| CT | 0 | 0 | 32 | 68 | 0 | ND | 6 | 21 | 42 | 30 | 1 |
| DE | 0 | 40 | 35 | 25 | 0 | OH | 7 | 20 | 36 | 32 | 5 |
| FL | 0 | 0 | 30 | 65 | 5 | OK | 22 | 25 | 40 | 13 | 0 |
| GA | 11 | 17 | 40 | 27 | 5 | OR | 2 | 10 | 53 | 34 | 1 |
| ID | 0 | 12 | 28 | 44 | 16 | PA | 15 | 35 | 35 | 14 | 1 |
| IL | 6 | 17 | 34 | 39 | 4 | RI | 0 | 0 | 38 | 56 | 6 |
| IN | 12 | 30 | 42 | 14 | 2 | SC | 2 | 8 | 47 | 41 | 2 |
| IA | 10 | 14 | 33 | 34 | 9 | SD | 5 | 9 | 28 | 44 | 14 |
| KS | 1 | 12 | 36 | 45 | 6 | TN | 22 | 36 | 31 | 11 | 0 |
| KY | 27 | 34 | 27 | 11 | 1 | TX | 18 | 24 | 33 | 19 | 6 |
| LA | 8 | 22 | 39 | 28 | 3 | UT | 0 | 6 | 25 | 55 | 14 |
| ME | 6 | 35 | 36 | 23 | 0 | VT | 0 | 0 | 18 | 53 | 29 |
| MD | 16 | 24 | 32 | 27 | 1 | VA | 30 | 39 | 20 | 11 | 0 |
| MA | 0 | 47 | 24 | 25 | 4 | WA | 0 | 18 | 47 | 35 | 0 |
| MI | 23 | 20 | 35 | 20 | 2 | WV | 20 | 23 | 29 | 23 | 5 |
| MN | 12 | 25 | 35 | 25 | 3 | WI | 3 | 13 | 35 | 44 | 5 |
| MS | 6 | 26 | 34 | 32 | 2 | WY | 1 | 7 | 23 | 58 | 11 |
| MO | 2 | 10 | 34 | 46 | 8 | ALL | 9 | 19 | 33 | 34 | 5 |
| MT | 10 | 26 | 50 | 13 | 1 | | | | | | |
| NE | 3 | 13 | 36 | 45 | 3 | Prev Wk | 9 | 18 | 34 | 34 | 5 |
| NV | 0 | 0 | 22 | 70 | 8 | Prev Yr | 4 | 15 | 34 | 41 | 6 |

# 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 4.2. Topsoil moisture 21% very short, 18% short, 21% adequate, 40% surplus. Hurricane Georges brought needed moisture to some areas, delayed harvest of peanuts, cotton. Defoliated cotton was hit hard in the southern part of State. Pecan producers in Baldwin, Mobile Counties saw significant damage to their crop. Pastures received a boost, which helped prospects for winter grazing. Corn harvested 96%, 90% 1997, 83% avg. Cotton bolls opened 90%, 70% 1997, 79% avg. Cotton harvested 42%, 8% 1997, 18% avg. Soybeans dropping leaves 71%, 66% 1997, 54% avg. Soybeans harvested 16%,7% 1997, 7% avg. Peanuts dug 38%, 82% 1997, 68% avg.; combined 27%, 73% 1997, 58% avg. Cotton 15% very poor, 18% poor, 46% fair, 20% good, 1% excellent. Soybean 16% very poor, 45% poor, 32% fair, 6% good, 1% excellent. Peanut 6% very poor, 25% poor, 44% fair, 24% good, 1% excellent. Livestock 9% very poor, 15%, poor, 53% fair, 21% good, 2% excellent. Pasture feed 9% very poor, 22% poor, 42% fair, 26% good, 1% excellent.

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**ALASKA:** Days suitable for fieldwork 5.0. Topsoil moisture 100% adequate. Subsoil moisture 20% short, 75% adequate, 5% surplus. Cool, dry, sunny conditions returned to the State's agricultural areas, which allowed the fall harvests to advance rapidly. Daytime high temperatures ranged form the mid 40's degree F to the mid 50's. Lows in the single digits reported during the week in the Kenny Lake and Sawmill Creek areas. Barley crop 95% harvested. Oats crop 75% harvested. Commercial potato crop 95% harvested. Other vegetable harvests winding down. Second-crop hay, 70% harvested. Winds, dry conditions allowed the harvest to advance in the Matanuska Valley. Straw supplies 25% short, 75% adequate. (Last report for the year.)

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**ARIZONA:** As of October 4, cotton bolls opening was 95%, 100% 1997, 100% avg. Cotton harvested 13%, 29% 1997, 23% avg. Cotton condition improved a little from the previous week. Condition was reported as 3% very poor, 15% poor, 45% fair, 27% good, 10% excellent. Alfalfa harvest activity was reported as 16% not being harvested, 3% light, 35% moderate, 40% active, 6% finished. Alfalfa condition improved, 3% poor, 20% fair, 67% good, and 10% excellent. Range, pasture feed 4% very poor, 9% poor, 22% fair, 51% good, 14% excellent. Last-week central area growers harvested cantaloupes, green onions, honeydews, watermelons, while eastern producers shipped gold, red delicious apples, chili peppers, a light volume of head lettuce, pumpkins. Western citrus groves harvested lemons.

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**ARKANSAS:** Days suitable for fieldwork 6.5. Soil moisture 7% very short, 45% short, 48% adequate. Dry, warmer-than-normal week ended with rain late 2nd, 3rd morning. Heaviest rain amounts occurred in the western portion of the State. In central, eastern areas, rainfall for the week was generally below normal. Main farming activities included spraying armyworms in pastures, harvesting rice, soybeans, cotton. Other farm activities included planting wheat, defoliating cotton, harvesting hay, completing the sorghum, corn harvest. Crop development continued ahead of the 5- year average in most categories due to hot, dry conditions that prevailed during the crop's earlier development stages. In addition, crop development had progressed nearly a week ahead of last year's crop in most categories. Some cattle producers were forced to feed hay to their herds due to armyworm infestation, which has caused pasture losses. Producers continued to wean calves, cull cows from their herds. Cattle, also treated for flies, reported in fair condition statewide. Alfalfa 8% very poor, 30% poor, 44% fair, 18% good. Other hay 9% very poor, 26% poor, 45% fair, 20% good. Range, pasture feed 10% very poor, 32% poor, 41% fair, 17% good.

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**CALIFORNIA:** Field activities progressed normally in most areas. The rain showers of the previous weekend in central and northern counties had little impact on current crop activities. Ground preparation for fall-seeded small grains, forage crops was ongoing. Cotton defoliation was slowly gearing up in the San Joaquin Valley, although many fields still had unopen bolls. Some growers were treating late developing cotton fields for aphids. Desert area cotton harvest continued. Black eye, pink beans were harvested in the San Joaquin Valley. Lima, kidney beans were cut and windrowed for drying. Safflower harvest was active in the Sacramento Valley. Sugar beets harvested in the San Joaquin, Imperial Valleys. Seed alfalfa harvest was nearing completion. Alfalfa crop residue was immediately burned or incorporated. Rice harvest was slowly gaining momentum in the Sacramento Valley, as it was just getting underway in the San Joaquin Valley. Corn was harvested for grain or silage. Some corn fields in Glenn County were lodging badly due to high winds. Alfalfa hay fields were sprayed for worms. Alfalfa and sudan grass were cut for hay or green chopped. San Joaquin Valley grapes were harvested for fresh consumption.. Flame seedless, red globe, and ruby seedless were the major varieties moving. Thompson seedless variety grapes were picked for fresh, raisin, wine uses. Almost all of the raisin crop has been harvested, with about 40% on open trays, 27% rolled, one-third picked up. Harvest of grapes for wine was also active, growers were plagued by bunch rot. Late-variety stone fruit picking was winding down. Royal gala, Fuji, granny Smith, red delicious apple picking was active. Dried figs were picked up. Olive harvest began. Bartlett pear harvest was active in Lake, Mendocino Counties. Asian pear picking, pomegranate picking were also active in the San Joaquin Valley. Prune harvest continued; growers had fruit quality concerns. Almond, pistachio, walnut harvestings increased in intensity. Valencia orange harvest continued at a slow pace. New-crop navel oranges were maturing, with small sized fruit. Lemon and grapefruit picking continued. Fall season strawberry picking was active. Harvest of potatoes, bell peppers, pumpkins, cucumbers, fresh, processing tomatoes continued. Cantaloupe, honeydew, watermelon harvests were starting to decline. Sweet corn harvest was winding down. Lettuce was being harvested in the central coast area. Additional vegetable crops harvested included fresh, processing onions, eggplant, bell peppers, green beans, cucumbers, squash, radishes, sweet potatoes, bitter melon (fruit and leaves) and beets. Fall lettuce, cabbage, broccoli crops were growing well, some fields were treated for worms. Broccoli, cauliflower were growing well with the cooler weather in Tulare County. Spinach was being planted for early spring harvest. Fall cucumber picking was steady, weather was affecting fruit size. Garlic, carrot, onion, potato, broccoli, cauliflower, lettuce fields continued to be planted in central and southern areas of the State. California's pastures and rangeland were in need of water. Dry feed, stock water supplies on winter pastures were adequate in most areas. A few early shipments of cattle were moved down from high-elevation pastures. Livestock were in generally good condition, with fall calving well underway in central and northern California. Beekeepers were doing maintenance on hives, equipment; some were securing contracts for next year's almond bloom.

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**COLORADO:** Days suitable for fieldwork 4.6. Topsoil moisture 7% very short, 27% short, 63% adequate, 3% surplus. Subsoil moisture 11% very short, 22% short, 65% adequate 2% surplus. Seasonal late-summer and fall weather prevailed during the week, with daytime temperatures in the 60's degrees F or higher. Some much-needed rain for the winter wheat crop was received over portions of the eastern plains. Dry onions 87% harvested, 93% 1997, 88% avg. Sugar beets 10% harvested, 9% 1997, 8% avg.; 1% very poor, 3% poor, 9% fair, 74% good, 13% excellent. Summer potatoes 94% harvested, 87% 1997, 89% avg. Fall potatoes 67% harvested, 81% 1997, 65% avg.; 2% poor, 7% fair, 38% good, 53% excellent. Dry beans 96% cut, 86% 1997, 87% avg.; 87% threshed, 76% 1997, 75% avg. Alfalfa 90% 3rd cutting, 90% 1997, 80% avg.; 15% 4th cutting, 34% 1997, 22% avg.; 1% very poor, 4% poor, 24% fair, 54% good, 17% excellent. Spring wheat 99% harvested, 94% 1997, 95% avg. Pasture, range feed in mostly fair to good condition.

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**DELAWARE:** Days suitable for fieldwork 6.5. Topsoil moisture 10% very short, 65% short, 25% adequate. Subsoil moisture 15% very short, 65% short, 20% adequate. Barley 20% planted, 30% 1997, 25% avg. Wheat 5% planted, 3% 1997, 2% avg. Soybeans 65% turned, 60% 1997, 63% avg.; 35% shedding leaves, 39% 1997, 42% avg.; 5% harvested, 3% 1997, 4% avg.; 16% poor, 50% fair, 24% good, 10% excellent. Field corn 90% mature,

76% 1997, 88% avg.; 55% combined, 33% 1997, 48% avg.; 6% very poor, 34% poor, 34% fair, 26% good. Silage 100% harvested, 83% 1997, 92% avg. Apples 90% harvested, 88% 1997, 80% avg. Sorghum 80% turning color, 74% 1997, 76% avg.; 55% mature, 34% 1997, 49% avg.; 15% harvested, 5% 1997, 6% avg; 10% poor, 20% fair, 50% good, 20% excellent condition. Lima beans 81% harvested, 90% 1997, 88% avg. Alfalfa hay 81% 4th cutting, 73% 1997, 75% avg. Other hay 43% 4th cutting, 71% 1997, 35% avg. Hay supplies 40% short, 60% adequate. Pasture feed 40% poor, 35% fair, 25% good. Activities: Planting of barley continued in its second week, wheat planting started, continued harvesting of corn, sorghum; soybean harvest is off and running.

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**FLORIDA**: Topsoil moisture adequate, surplus. Haying delayed by rain. Hurricane Georges left flooding problems Panhandle, northern Peninsula. Pensacola felt brunt of Tropical Storm Georges as it passed over during first part of week, with rain totaling almost 15 in. Tallahassee reported over 6 in., while Jacksonville recorded about 3 in. Most other Peninsula areas received an inch or less rain for the week. The Palmetto-Ruskin area received from about an inch to an inch and a half for week, while Dade County reported little over an inch. Temperatures averaged 70's degrees Fover Panhandle and Big Bend area, while rest of Peninsula averaged 80's degrees F. Temperatures at major stations ranged 3 to 5 degrees above normal. Twenty plus in. rain western Panhandle. Early prediction is for heavy loss of cotton, soybeans in western Panhandle. In eastern Panhandle, northern Peninsula rains, winds less, but loss could be high if fields do not dry out soon. Tobacco marketing active. Fall armyworms serious pest in hay fields, pastures. Cotton, peanut, soybean harvest delayed by rain. No major damage sugarcane area. Sugarcane planting active. Twenty-six percent peanut acreage for nuts harvested. Peanut poor 2%, fair 43%, good 55%. Sunny weather, scattered showers allowed vegetables to recover from hurricane wind, rain damage. Vegetable fieldwork progressing schedule. Scattered showers, high humidity with 90-degree F temperatures was the rule this week, citrus areas. Caretakers still drying out groves from Hurricane Georges. New crop fruit sizing well, some splitting early fruit from excessive moisture. Harvest, packing early fruit continues to increase. Caretakers cutting cover crops, fertilizing, spraying, herbiciding. Some resetting following pushing dead trees. Pasture feed fair 30%, good 65%, excellent 5%. Condition of cattle fair 20%, good 75%, excellent 5%. Central area pastures greened-up. Armyworms still problem in some pastures. Panhandle, west-central pastures quite wet from rains of Hurricane Georges. Statewide, condition of cattle, calves mostly fair to good.

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**GEORGIA**: Days suitable for fieldwork 3.6. Soil moisture 6% very short, 15% short, 44% adequate, 35% surplus. Corn 96% harvested for grain, 94% 1997, 93% avg. Cotton 12% very poor, 25% poor, 36% fair, 23% good, 4% excellent; 85% bolls open, 76% 1997, 83% avg.; 18% harvested, 9% 1997, 18% avg. Hay 11% very poor, 24% poor, 39% fair, 24% good, 2% excellent. Peanuts 6% very poor, 15% poor, 37% fair, 34% good, 8% excellent; 48% dug, 79% 1997, 74% avg.; 32% threshed, 63% 1997, 56% avg. Rye 21% planted, 17% 1997, 20% avg. Sorghum 66% harvested for grain, 43% 1997, 55% avg. Soybeans 22% very poor, 24% poor, 38% fair, 15% good, 1% excellent; 50% dropping leaves, 74% 1997, 61% avg.; 4% harvested, 6% 1997, 4% avg. Wheat 1% planted, 1% 1997, 3% avg.; 0% emerged, 0% 1997, 1% avg. Other small grains 11% planted, 7% 1997, 11% avg. Apples 2% very poor, 16% poor, 34% fair, 48% good; 69% harvested, 70% 1997, 76% avg. Pecans 17% very poor, 24% poor, 34% fair, 22% good, 3% excellent; 2% harvested, 3% 1997, 2% avg. Pasture feed 11% very poor, 17% poor, 40% fair, 27% good, 5% excellent. Rain over most of the State limited most fieldwork. Southeastern soil moisture levels were highest in the State. Harvesting peanuts and cotton delayed. Most cotton defoliation stopped. Armyworms still causing damage to pastures, hayfields. Overseeding pastures, hayfields with small grains. Preparing fields for small grain planting. Remnants of Hurricane Georges caused considerable damage to pecan trees in the southwestern part of the State. Other activities included preparing for small grain planting, cutting and baling hay, routine care of livestock.

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**HAWAII**: Weather conditions generally favored agriculture. Sunny, warm in most areas. Irrigation ensured normal crop progress. Windwards areas received beneficial mixture of showers and sunshine. Days remain warm, nights cooler. Gusty trade winds late in week hampered some types of irrigation, spraying. Banana production steady. Spraying intensified due to showery weather in major producing areas. Papaya varies by locale; steady to seasonally light. Head, Chinese cabbage harvesting steady. Cooler conditions helping crop. Harvesting of other vegetables at seasonally light levels.

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**IDAHO**: Days suitable for fieldwork 5.9. Topsoil moisture 1% surplus, 60% adequate, 39% short. Temperatures remain above normal for this time of the year. Alfalfa hay third cutting 92%, 1997 82%, avg. 82%. Irrigation supply 29% excellent, 60% good, 8% fair, poor 3%. Dry beans harvested 85%, 1997 87%, avg. 83%. Onions harvested 57%, 1997 79%, avg. 77%. Hops harvested 95%, 1997 100%, avg. 99%. Peaches harvested 92%, 1997 99%, avg. 98%. Prunes, plums harvested 69%, 1997 99%, avg. 97%. Apples harvested 23%, 1997 30%, avg. 36%. Potato vines dead/killed 96%, 1997 97%, avg. 98%; harvested 35%, 1997 43%, avg. 43%. Sweet corn harvested 96%, 1997 98%, avg. 97%. Corn harvested for silage 59%, 1997 74%, avg. 68%. Corn harvested for grain 5%, 1997 8%, avg. 5%. Sugar beets harvested 13%, 1997 13%, avg. 14%. Activities: Working the seedbed, planting winter wheat, harvesting fall crops, moving livestock off of summer range.

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**ILLINOIS**: Days suitable for fieldwork 5.6. Topsoil moisture 8% very short, 30% short, 61% adequate, 1% surplus. Last week, farmers continued to harvest their corn and soybean crops between rain showers. Soybean harvest jumped ahead of the corn harvest. Statewide, corn harvest remains ahead of recent years. Activities for last week included planting wheat, fall tillage and applying fertilizer. Soybeans turning yellow 95%, 97% 1997, 95% avg. Sorghum coloring 92%, 95% 1997, 92% avg

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**INDIANA**: Days suitable for fieldwork 6.8. Topsoil moisture 30% very short, 53% short, 16% adequate, 1% surplus. Subsoil moisture 22% very short, 57% short, 21% adequate. Soybean harvest advanced rapidly, corn harvest made modest progress last week. Farmers took full advantage of dry conditions until cool, damp weather arrived over the weekend. Harvest activities halting across much of the State. Tobacco harvest 88% complete, 73% 1997, 90% avg. Range, pasture feed 12% very poor, 30% poor, 42% fair, 14% good, 2% excellent. Activities: Harvesting corn, soybeans, seeding winter wheat, harvesting tobacco, caring for livestock.

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**IOWA**: Days suitable for fieldwork 5.9. Topsoil moisture very short 8%, short 27%, adequate 58%, surplus 7%. Subsoil moisture very short 10%, short 23%, adequate 64%, surplus 3%. Harvest was in full swing, with soybean harvest now over half complete. Corn acreage mature 99%, 94% 1997, 84% avg.; harvested 19%, 7% 1997, 9% avg. Moisture content of harvested field corn averaged 19%. Soybeans leaves dropping 98%, 96% 1997, 87% avg.; harvested 51%, 49% 1997, 29% avg. Soybeans lodging 60% none, 28% light, 11% moderate, 1% heavy; shattering 53% none, 35% light, 11% moderate, 1% heavy. Winter wheat planted 49%, 43% 1997, 40% avg. Third-crop alfalfa harvested 96%, 95% 1997, 96% avg. Livestock good condition. Pasture feed lower at 10% very poor, 14% poor, 33% fair, 34% good, 9% excellent.

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**KANSAS**: Days suitable for fieldwork 3.0. Topsoil moisture 1% very short, 14% short, 49% adequate, 36% surplus. Subsoil moisture 1% very short, 17% short, 68% adequate, 14% surplus. Rains fall across the State late in the week, with heaviest amounts in the east. Fall fieldwork advanced early in the week as fall harvest continues ahead of normal. Wheat 1% very poor, 10% poor, 33% fair, 51% good, 5% excellent. Sorghum 1% very poor, 6% poor, 27% fair, 53% good, 13% excellent. Soybean 2% very poor, 11% poor, 32% fair, 45% good, and 10% excellent. Sunflowers mature 84%, 81% 1997; harvested 37%, 23% 1997. Sunflowers 1% very poor, 3% poor, 29% fair, 59% good, 8% excellent. Major field activities were seeding, harvesting grain, harvesting silage. Pasture feed 1% very poor, 12% poor, 36% fair, 45% good, 6% excellent. Stock water supplies 1% very short, 8% short, 79% adequate, 12% surplus. Supplemental feeding of cattle has started in the southwest, calves are being weaned in the east. Cattle are being moved off pastures to feedlots, row crop stubble.

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**KENTUCKY**: Days suitable for fieldwork 5.8. Topsoil moisture 63% very short, 29% short, 8% adequate. Subsoil moisture 55% very short, 38% short, 7% adequate. For week, above-normal temperatures Statewide, rainfall 0.11 inches above normal. Getting tobacco planted early was the key to a good crop this year. Tobacco remaining in the field through this week is very small due to excessive dryness over the last 6 weeks. Burley tobacco

cut 95%, 80% 1997, 92% avg. Dark tobacco cut 95%, 86% 1997, 94% avg. Condition of housed tobacco was reported as 4% very poor, 12% poor, 33% fair, 39% good, 12% excellent. Sixty-nine percent burley not ready for stripping, 27% ready for stripping, 4% was stripped. Pastures feed 27% very poor, 34% poor, 27% fair, 11% good, 1% excellent.

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**LOUISIANA**: Days suitable for fieldwork 6.2. Soil moisture 2% very short, 23% short, 67% adequate, 8% surplus. Cotton harvest is moving at a rapid pace. Insect pressure is light to moderate. Hay 84% final cutting, 99% 1997, 92% avg. Soybeans 22% very poor, 31% poor, 32% fair, 13% good, 2% excellent; 95% turning color, 95% 1997, 90% avg. Soybean harvest continued with many pods being lost due to sprouting in the pods. Sugarcane 5% very poor, 12% poor, 24% fair, 42% good, 17% excellent; 83% planted, 98% 1997, 91% avg., 0% harvested, 4% 1997, 2% avg. Sweet potatoes 4% very poor, 21% poor, 45% fair, 30% good; 51% harvested, 50% 1997, 56% avg. Wheat 18% planted, 18% 1997, 7% avg. Livestock 3% very poor, 11% poor, 44% fair, 37% good, 5% excellent. Vegetables 11% very poor, 19% poor, 44% fair, 26% good. Preparing ground for fall vegetables. Armyworms continued to be a problem for pastures.

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**MARYLAND**: Days suitable for fieldwork 6.0. Topsoil moisture 20% very short, 50% short, 30% adequate. Subsoil moisture 32% very short, 50% short, 18% adequate. Barley 33% planted, Rye 13% planted, wheat 10% planted. Field corn 4% very poor, 17% poor, 34% fair, 40% good, 5% excellent; 91% mature, 88% 1997, 90% avg.; 52% combined, 22% 1997, 41% avg.; 90% harvested for silage, 84% 1997, 82% avg. Soybeans 10% very poor, 35% poor, 35% fair, 15% good, 5% excellent; 77% turned, 65% 1997, 76% avg.; 46% shedding leaves, 45% 1997, 50% avg. Sorghum 49% poor, 50% fair, 1% good; 80% turned, 94% 1997, 87% avg.; 40% mature, 56% 1997, 67% avg; 20% harvested, 13% 1997, 18% avg. Pasture feed 16% very poor, 24% poor, 32% fair, 27% good, 1% excellent. Apples 60% harvested, 72% 1997, 60% avg. Other hay 4th cutting 75% harvested, 68% 1997, 51% avg. Alfalfa hay 85% 4th cutting, 78% 1997, 82% avg.; 20% 5th cutting, 6% 1997, 12% avg. Hay supplies 5% very short, 13% short, 63% adequate, 19% surplus. Activities: Small grain planting started up for most farmers, continued harvesting of grain corn, silage.

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**MICHIGAN**: Days suitable for fieldwork 6.0. Topsoil moisture 29% very short, 40% short, 31% adequate. Subsoil moisture 37% very short, 40% short, 23% adequate. Hay 3rd cutting 97%, 91% 1997, 85% avg.; 4th cutting 46%, 39% 1997, 32% avg. Silage harvested 93%, 49% 1997, 60% avg. Soybeans mature 85%, 23% 1997, 46% avg. Light rain fell across the State 2nd, 3rd. Only northern fourth of Lower Peninsula received more than 1 inch of rain. Most of week was very favorable for the harvest of field crops. Corn harvest picked up in the north as fields matured. Many farmers in Thumb will have finished corn, soybean harvest before they start sugar beet harvest, which is unusual. Some sugarbeet harvest began this past week, with full harvest to begin middle of month. Sugar beets can still put on tonnage during the next month with sufficient rainfall. Winter wheat planting continued although the soil in many areas still too dry to prepare and plant. If recent rains continue, more hay fields will produce a fourth cutting. Concord grape harvest continued, with good to excellent quality reported. Apple harvest continued. Size and quality have been better than expected, considering dry summer, although yields were average. Cranberry harvest continued. Fresh, processing pepper harvest continued. Pumpkins continued to ripen. Winter squash harvest started. Harvest of carrots, cucumbers, celery, broccoli continued. Onion harvest began in the west-central area, with excellent size, quality reported.

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**MINNESOTA**: Days suitable for fieldwork 5.7. Topsoil moisture 10% very short, 38% short, 51% adequate, 1% surplus. Soybeans 98% mature, 90% 1997, 70% avg.; 11% moisture content, 11% 1997, 14% avg.; 31% stubble worked, 31% 1997, 12% avg. Potatoes 76% harvested, 74% 1997, 63% avg. Dry beans 93% harvested, 90% 1997, 74% avg. Flax 96% harvested, 62% 1997, 73% avg. Sugar beets 36% harvested, 10% 1997, 20% avg. Sunflowers 22% harvested, 8% 1997, 20% avg. Corn 19% moisture content, 25% 1997, 28% avg.; stubble worked 8%, 2% 1997, 2% avg. Pasture feed 12% very poor, 25% poor, 35% fair, 25% good, 3% excellent. Advanced maturity of crops, continuing mostly dry conditions in the fields allowed rapid progress to be made on the harvest of soybeans, corn. Soils in many areas have become very dry, difficult to work, good soaking would be welcome before freeze-up. Intense local wind, hail storms caused pre-harvest losses of mature crops in the west-central through east-central districts.

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**MISSISSIPPI**: Days suitable for fieldwork 5.8. Soil moisture 26% very short, 32% short, 36% adequate, 6% surplus. Corn 100% harvested, 95% 1997, 89% avg. Cotton 59% harvested, 19% 1997, 34% avg.; 4% very poor, 12% poor, 39% fair, 42% good, 3% excellent. Rice 100% mature, 97% 1997, 96% avg.; 93% harvested, 81% 1997, 79% avg. Sorghum 100% harvested, 91% 1997, 90% avg, Soybeans 99% turning color, 89% 1997, 88% avg.; 88% shedding leaves, 76% 1997, 70% avg.; 62% harvested, 45% 1997, 32% avg.; 8% very poor, 14% poor, 40% fair, 35% good, 3% excellent. Sweet potatoes 45% harvested, 38% 1997, 58% avg.; 1% very poor, 4% poor, 41% fair, 39% good, 15% excellent. Wheat 25% planted, 9% 1997, 10% avg.; 9% emerged, NA 1997, 1% avg.; 1% very poor, 6% poor, 12% fair, 70% good, 11% excellent. Peanuts 24% harvested, 20% 1997, NA% avg.; 39% fair, 53% good, 8% excellent. Cattle 2% very poor, 11% poor, 33% fair, 45% good, 9% excellent. Pasture feed 6% very poor, 26% poor, 34% fair, 32% good, 2% excellent. Activities: Hurricane Georges caused damage to crops, households in some southeastern counties. Soybeans harvested, winter wheat planted are ahead of 1997 and average.

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**MISSOURI**: Days suitable for fieldwork 4.3. Topsoil moisture 7% very short, 12% percent short, 55% adequate, 26% surplus. Most notable moisture shortages in southeast at 95% short to very short, followed by south central at 55% short to very short. Most notable excess moisture exists in west-central at 70% surplus, followed by northwest at 57% surplus. Rainfall was beneficial to newly seeded winter wheat, pasture growth, although weekend rains halted harvesting progress in most areas. Corn harvesting is the most advanced for this date since 1991. Southwest, southeast farmers have completed the corn harvest, while the northwest at 34%, northeast at 25% complete are least advanced. Ripening of the bean crop is most advanced in northwest, north-central at 79%, 68% mature, respectively. Least advanced beans are in south central, southeast at 34%, 47% mature, respectively. East-central leads the State at 30% beans harvested, followed by northeast 26% complete. Milo harvesting is most advanced for this date since 1991. Sorghum is most advanced in southwest at 88% harvested, followed by southeast at 79% complete. Winter wheat planting is most advanced in Bootheel at 20%, followed by north-central, southwest at 13% and northwest, northeast at 11% planted. Rainfall past week avg 2.00 in., varying from 0.50 in. or less in the east-central, south-central, southeast districts to over 3 in. in north-central, western districts. September precipitation averaged 5.02 in., compared with the 30-year average of 4.22 in. Bootheel with 0.98 in. was the driest area for the month. Pasture feed 2% very poor, 10% poor, 34% fair, 46% good, 8% excellent.

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**MONTANA**: Days suitable for fieldwork 5.8. Topsoil moisture 32% very short, 38% short, 29% adequate, 1% surplus. Subsoil moisture 40% very short, 31% short, 29% adequate. Conditions were seasonal, with temps in high 70's degrees F to low 80's, cooled off 2nd, 3rd when most of the State received some precipitation. Corn harvested for silage 93%, 88% 1997, 86% avg. Dry beans harvested 96%, 95% 1997, 88% avg. Sugar beets harvested 15%, 17% 1997, 16% avg. Potatoes harvested 27%, 32% 1997, 32% avg. Second-cutting alfalfa 99%, 96% 1997, 96% avg. Range, pasture remains in mostly fair to poor condition. Weekend precipitation improved range conditions slightly, more moisture is needed to improve conditions. Ranchers have moved 43% of the cattle, 55% of the sheep off summer pastures compared with the 5-year average of 34% of the cattle, 40% of sheep moved off by this time.

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**NEBRASKA**: Days suitable for fieldwork 5.6. Topsoil moisture 5% very short, 33% short, 61% adequate, 1% surplus. Subsoil moisture 8% very short, 39% short, 53% adequate. Corn 1% very poor, 2% poor, 16% fair, 62% good, 19% excellent; irrigated corn 79% good or excellent; dryland corn 84% good or excellent; mature 97%, ahead of 83% 1997, 84% avg.; harvested 31% , 2 weeks ahead of 10% 1997, 10% avg. Some producers done with harvest, others allowing grain to field dry further. Soybean 1% poor, 24% fair, 59% good, 16% excellent; dropping leaves 98%, 97% 1997, 92% avg. Harvested 36%, 26% 1997, 28% avg. Sorghum 1% poor, 18% fair, 66% good, 15% excellent; mature 94%, 85% 1997, 73% avg.; harvested 13%, 11% 1997, 9% avg. Dry beans harvested 82%, 85% 1997, 82% avg. Alfalfa 1% very poor, 8% poor, 33% fair, 50% good, 8% excellent; 4th cutting 68%, 56% 1997, 60% avg. Wheat seeding 91%, 90% 1997, 88% avg. Wheat emergence 67%, 65% 1997, 60% avg. Stands spotty, with some replanting in the Panhandle. Moisture during the week should improve stands, aid germination in fields yet to be seeded. Pasture feed 3% very

poor, 13% poor, 36% fair, 45% good, 3% excellent. Producer activities; millet, sugar beet, grain, hay harvests, weaning calves, livestock care, requesting Load Deficiency Payments at FSA.

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**NEVADA:** Third, 4th cuttings of alfalfa continued in northern valleys. Alfalfa seed harvest slowed neared completion. Seeding of new alfalfa fields continued. Grain harvest was completed and fields were being prepared for seeding of winter wheat, barley. Corn harvest continued. Mint distilling was ongoing in Orovada. Harvest of garlic was well along, planting of next year's crop was underway. Onion harvest was well along. Potato harvest gained momentum. Pasture, range condition continued to rate mostly good. Cattle movement to fall pastures was underway. Main farm, ranch activities: Haying, alfalfa seed harvest, potato harvest, onion harvest, garlic harvest, planting winter grains, fall seeding of alfalfa, mint distilling, irrigating, cattle marketing.

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**NEW ENGLAND:** Days suitable for fieldwork 5.8. Topsoil moisture 3% very short, 17% short, 74% adequate, 6% surplus. Subsoil moisture 3% very short, 17% short, 74% adequate, 6% surplus. Pasture feed 1% very poor, 14% poor, 25% fair, 45% good, 15% excellent. Maine potatoes 70% harvested, 60% 1997, 65% avg.; condition good. Massachusetts potatoes 80% harvested, 85% 1997, 85% average; condition good. Rhode Island potatoes 85% harvested, 90% 1997, 85% avg.; condition good to fair. Oats in Maine 99% harvested, 85% 1997, 90% avg.; condition good to fair. Barley in Maine 100% harvested, 85% 1997; condition fair to good. Field corn 60% harvested, 45% 1997, 55% avg.; condition good. Sweet corn 99% harvested, 99% 1997, 99% avg.; condition good to fair. First-cut hay 100% harvested, 99% 1997, 99% avg.; condition fair. Second-cut hay 95% harvested, 85% 1997, 90% avg.; condition good. Third-cut hay 70% harvested, 80% 1997, 75% avg.; condition good to excellent. Apples 75% harvested, 70% 1997, 65% avg., size average; condition good. Pears 90% harvested, 75% 1997, 85% avg., size average; condition good to fair. Cranberries 20% harvested, 25% 1997, 35% avg.; size average, condition good to excellent. Frost in northern parts of region. Field corn harvest in full swing. Major farm activities included: Harvesting apples, cranberries, pumpkins, corn silage, potatoes; spreading manure; disking down harvested fields; planting cover crops.

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**NEW JERSEY:** Days suitable for fieldwork 7. Farmers are irrigating crops, planting cover crops, spraying for disease, pests. Harvesting of fall items (spinach, cabbage, parsley, endive, escarole, Indian corn, beets, turnips, pumpkins) is increasing, while the harvesting of summer items is declining. Feed requirements are below average to average. Irrigation water supply is short to adequate. Moderate volume of beans, beets, cabbage, eggplant, endive, escarole, herbs, leeks, lettuce, peppers, spinach. Light supply of okra, parsley, pumpkins, Indian corn, cucumbers, tomatoes, turnips. Good, increasing volume of apples. Cranberries starting to be harvested in parts of Central areas. Harvesting of corn for silage continues with the harvesting of corn for grain increasing. Soybeans are dropping their leaves with limited harvesting occurring. Pasture feed, range poor to good.

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**NEW MEXICO:** Days suitable for fieldwork 5.8. Topsoil moisture improved to 18% very short, 48% short, 33% adequate, 1% surplus. Warm, wet weather covered most of the State last week. Wheat, onion producers were planting last week as hay, apple, corn, sorghum, chile, cotton harvests continued. Wheat planting neared completion, onion planting progressed to 38% complete. With the 4th cutting of alfalfa completed, the 5th, 6th cuttings moved to 82%, 47% complete respectively; 6% poor, 39% fair, 40% good, 15% excellent. Apples 66% picked, 74% 1997; 2% very poor, 2% poor, 22% fair, 71% good, 3% excellent. Corn harvest continued with 17% of the grain, 85% of silage cut. Overall condition of corn 2% poor, 36% fair, 55% good, 7% excellent; 85% mature, 87% 1997. Sorghum harvest was just getting underway along the east side of the State. Green chile harvest moved to 85% complete, 91% 1997; red chile harvest was 5% complete, 8% 1997; 1% very poor, 4% poor, 23% fair, 60% good, 12% excellent. Cotton harvest was just getting started in southern areas of the State. Lettuce harvest was approaching, with the crop condition 12% fair, 53% good, 35% excellent. Pecans remained in good condition, with no reports of any major damage from weather, insects, or disease. Cattle, sheep remained in fair to good condition.

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**NEW YORK:** Days suitable for fieldwork 5.4. Soil moisture 6% very short, 29% short, 62% adequate, 3% surplus. Pasture feed 16% poor, 25% fair, 59% good. Corn 6% fair, 69% good, 25% excellent. Silage corn 77% harvested, 36% 1997, 45% avg. Grain corn 20% harvested, 4% 1997, 4% avg. Third cutting of alfalfa 87% complete, 88% 1997, 88% avg. Potato harvest gained momentum. Apple picking in high gear. Harvest near half-way mark. Growers salvaging fresh market apples in Lake Ontario region after severe wind, hail damage. Vegetable harvests winding down.

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**NORTH CAROLINA:** Day suitable for fieldwork 6.0. Soil moisture 18% very short, 50% short, 31% adequate, 1% surplus. First part of October brought unseasonably warm weather. These above-normal temperatures combined with below-normal precipitation allowed farmers to make good gains in field crop harvest. Corn, cotton harvests continue to be ahead of the 5-year average. Moisture levels continue to be a concern throughout the State. Activities for the week included: Harvesting tobacco, corn, cotton, peanuts, sweet potatoes, sorghum; cutting hay; planting small grains, tending livestock.

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**NORTH DAKOTA:** Days suitable for fieldwork 5. Topsoil moisture 3% very short, 21% short, 74% adequate, 2% surplus. Subsoil moisture 6% very short, 35% short, 57% adequate, 2% surplus. Producers made excellent progress on late-season crop harvest before rain hit during the weekend. A hard frost was reported for most of the State, which will accelerate the dry down process for corn, sunflowers. Late-season crop harvest continued at a pace well ahead of the 5-year average. Corn for grain 97% ripe, 90% 1997, 77% avg.; 35% harvested, 11% 1997, 6% avg. Corn for silage 90% chopped, 87% 1997, 79% avg. Dry edible beans 98% combined, 87% 1997, 73% avg. Potatoes 85% dug, 81% 1997, 77% avg. Soybeans 68% harvested, 81% 1997, 47% avg. Sugar beets 39% lifted, 10% 1997, 22% avg. Sunflower 96% bracts turned brown, 90% 1997, 83% avg.; 17% harvested, 19% 1997, 8% avg. Sugar beet conditions remained relatively unchanged, while corn for grain, sunflower declined slightly from last week. Emerged crop condition: Corn for grain 2% very poor, 13% poor, 35% fair, 44% good, 6% excellent; sugar beets 1% very poor, 6% poor, 16% fair, 52% good, 25% excellent; sunflower 1% very poor, 4% poor, 27% fair, 58% good, 10% excellent. Livestock water 8% short, 89% adequate, 3% surplus.

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**OHIO:** Days suitable for fieldwork 6.7. Topsoil moisture 21% very short, 44% short, 34% adequate, 1% surplus. Corn mature 84%, 30% 1997, 57% avg.; harvested for silage 73%, 35% 1997, 62% avg.; harvested for grain 15%, 1% 1997, 7% avg. Soybeans dropping leaves 97%, 86% 1997, 90% avg.; mature 85%, 43% 1997, 69% avg.; harvested 55%,17% 1997, 22% avg. Alfalfa hay 84% 4th cutting. Other hay 93% 3rd cutting, 72% 1997, 82% avg. Tobacco 96% cut, 82% 1997. Fall, winter apples 65% harvested, 34% 1997, 40% avg. Hay 3% very poor, 10% poor, 33% fair, 45% good, 9% excellent. Activities throughout the State include cutting, baling 4th, 5th cutting hay; combining soybeans; harvesting corn for silage, grain; tilling ground; sowing wheat; hauling, drying grain; spreading fertilizer, manure, lime; harvesting pumpkins, tomatoes, cabbage, winter squash, peppers; cutting firewood; vaccinating, weaning calves; pressing cider; installing tile; building ponds; cutting, hanging tobacco. Some reported weed pressures were ironweed; thistle; Johnson grass; ragweed; lambs quarter in new alfalfa seedings; goldenrod; foxtail, trumpetkeeper. Green weeds in soybean fields are hindering the harvest. Mosquitoes, flies, alfalfa web worms were reported insects. Reported diseases include apple scab, mildew on pumpkins; some mold in corn, soybeans; blight, grey leaf spot in corn; leaf spot on tomatoes. Frost was reported for Friday, October 2, with a Pike County reporter mentioning that it may affect late-season crops. Pastures continue to deteriorate in the southern part of the State as many farmers are feeding hay to livestock. Livestock conditions are mostly good, but water sources have dried up for some producers in the south.

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**OKLAHOMA:** Days suitable for fieldwork 5.0. Topsoil moisture 6% very short, 31% short, 56% adequate, 7% surplus. Subsoil 10% very short, 33% short, 56% adequate, 1% surplus. Thunderstorms slowed small grain seeding, row crop harvest. Wheat 83% seedbed prepared, 94% 1997, 94% avg. Oats 70% seedbed prepared, 89% 1997, 89% avg.; 21% planted, 23% 1997, 31% avg.; 6% up to stand, 0% 1997, 8% avg. Corn 95% harvested, 82% 1997, 79% avg. Sorghum 6% very poor, 6% poor, 13% fair, 74% good, 1% excellent. Soybeans 7% very poor, 38% poor, 40% fair, 14% good, 1% excellent; 82% mature, 68% 1997, 63% avg; 41% harvested, 19% 1997, 22% avg. Peanuts 76% mature, 47% 1997, 54% avg; 4% combined, 1%

1997, 4% avg.; alfalfa hay 12% very poor, 17% poor, 38% fair, 32% good, 1% excellent; 57% 4th cutting, 88% 1997, 90% avg.; 10% 5th cutting, 23% 1997, 29% avg.; other hay 31% 2nd cutting, 64% 1997, 93% avg. Livestock 3% very poor, 9% poor, 27% fair, 59% good, 2% excellent.

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**OREGON:** Days suitable for fieldwork 6.7. Topsoil moisture 7% very short, 31% short, 62% adequate. Subsoil moisture 5% very short, 27% short, 68% adequate. Barley planted 12%, 19% 1997, 16% avg. Winter wheat 11% fair, 89% good; planted 27%, 46% 1997, 40% avg.; emerged 10%, 19% 1997, 14% avg. Range, pasture feed 2% very poor, 10% poor, 53% fair, 34% good, 1% excellent. Activities: Ground preparation for fall seeding continued. On westside new plantings of sugar beets for seed emerged, grass seed growers fertilizing, spraying established fields, mostly completed tall fescue seeding, started seeding perennial ryegrass. Third, 4th cutting alfalfa, last of red clover harvested. Field corn silage harvest continued. On east side some grain planted, sugar beets for sugar harvest started. Final alfalfa cuttings nearly completed. Nurseries gearing up for fall digging season. Greenhouses busy with fall pansies, mums, working on poinsettia. Easter Lily growers continued to harvest, grade, pack commercial grade bulbs. Christmas tree growers reported trees in excellent condition. Willamette Valley processors continued to receive late-harvested sweet corn. Cole crop harvest continued and salad vegetables still plentiful. Recent rains caused a blight problem in tomato crop. Pumpkin harvest started, pumpkin patches getting ready for Halloween sales. Most onions dried, fields closed to harvest cleanup. On east side potato harvest peaked. In Willamette Valley, hazelnuts continue to drop, first sweeping started. Caneberry clean up continued, grapes nearing maturity, late apples ready. Pear, apple harvest winding down in Rogue River Valley. Cranberry harvest underway on south coast. In Hood River Valley, Anjou pear harvest continued in upper valley, golden delicious apples harvest began in middle valley, Jonagold apple harvest completed. Apple harvest underway in the Milton-Freewater area. Livestock good. Fall weaning, vaccinations continued in northeast, southwest. Fall roundup underway in most range areas. Grass seed fields greening up nicely for sheep feeding. Willamette Valley pastures, eastern mountain rangeland greening up following recent rains.

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**PENNSYLVANIA:** Days suitable for fieldwork 6.2. Soil moisture 25% very short, 54% short, 20% adequate, 1% surplus. Ensilage corn harvested 80% harvested, 59% 1997, 63% avg. Soybean harvest 6% complete, 4% 1997. 4% avg.; 2% very poor, 6% poor, 27% fair, 47% good, 18% excellent. Potato harvest 67% complete, 64% 1997, 66% avg. Fall plowing 50% complete, 64% 1997, 60% avg. Wheat planted 18% complete, 49% 1997, 44% avg.; emerged 6% complete, 21% 1997, average not available. Barley planted 40% complete, 61% 1997, 60% avg.; emerged 17% complete, 33% 1997, average not available. Alfalfa 3rd cutting 92% complete, 91% 1997, 89% avg.; 4th cutting 58% complete, 63% 1997, 55% avg. Timothy clover 2nd cutting 95% complete, 99% 1997, 98% avg. Quality of hay made 1% very poor, 6% poor, 25% fair, 44% good, 24% excellent. Grape harvest 50% complete, 39% 1997, 54% avg. Apple harvest 59% complete, 54% 1997, 60% avg. Activities: Seeding small grains; fall plowing; cutting hay and haylage; harvesting grapes, apples; harvesting corn, soybeans, potatoes, fall vegetables; seeding wheat, barley; filling silos; machinery maintenance; fixing fences; hauling manure; caring for livestock.

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**SOUTH CAROLINA:** Days suitable for fieldwork 6.1. Soil moisture 4% very short, 35% short, 60% adequate, 1% surplus. Apples 70% harvested, 77% 1997, 74% avg.; 42% poor, 26% fair, 32% good. Corn 99% harvested, 96% 1997, 92% avg. Grapes 10% poor, 53% fair, 32% good, 5% excellent. Hay 99% cut, 100% 1997, 87% avg. Livestock condition 5% poor, 30% fair, 61% good, 4% excellent. Oats 10% planted, 23% 1997, 15% avg.; 2% emerged, 15% 1997, 7% avg. Pasture feed 2% very poor, 8% poor, 47% fair, 41% good, 2% excellent. Peanuts 29% harvested, 43% 1997, 38% avg.; 14% very poor, 28% poor, 42% fair, 16% good. Pecans 15% harvested, 13% 1997, 5% avg.; 18% poor, 57% fair, 25% good. Rye 15% planted, 24% 1997, 19% avg.; 3% emerged, 11% 1997, 9% avg. Sorghum 80% matured, 96% 1997, n/a avg; 52% harvested, 76% 1997; 5% very poor, 14% poor, 54% fair, 26% good, 1% excellent. Sweet potatoes 40% harvested, 27% 1997, 27% avg.; 5% fair, 90% good, 5% excellent. Tobacco 87% stalks destroyed, 93% 1997, 80% avg. Winter grazings 40% planted, 40% 1997, 36% avg.; 25% emerged, 29% 1997, 23% avg.; 3% very poor, 7% poor, 39% fair, 51% good. Winter wheat 15% planted, 15% 1997, 7% avg.; 3% emerged, 3% 1997, 2% avg.

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**SOUTH DAKOTA:** Days suitable for fieldwork 5.8. Topsoil moisture 12% very short, 49% short, 38% adequate, 1% surplus. Subsoil moisture 4% very short, 41% short, 53% adequate, 2% surplus. Cooler weather prevailed over the State early in the week, with heavy rain across most of the State by week's end. Many areas of the State reported a frost late in the week. Sunflower 2% poor, 18% fair, 57% good, 23% excellent; 92% mature, 74% 1997, 77% avg.; 32% harvested, 18% 1997, 13% avg. Sorghum 1% poor, 8% fair, 81% good, 10% excellent; harvested for silage 71%, 85% 1997, 60% avg. Corn 1% poor, 8% fair, 53% good, 38% excellent; harvested for silage 89%, 91% 1997, 72% avg. Soybeans 1% poor, 9% fair, 53% good, 37% excellent; mature 96%, 82% 1997, 68% avg. Weekend rains are expected to help the winter rye, winter wheat emergence. Winter rye seeded 94%, 95% 1997, 90% avg.; emerged 52%, 78% 1997, 73% avg. Alfalfa 1% very poor, 4% poor, 25% fair, 50% good, 20% excellent. Alfalfa cut three times 94%, 46% 1997, 9% avg. Livestock 1% poor, 9% fair, 68% good, 22% excellent. Stock water 1% very short, 15% short, 78% adequate, 6% surplus.

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**TENNESSEE:** Days suitable for fieldwork 7.0. Topsoil moisture 36% very short, 48% short, 16% adequate. Subsoil moisture 32% very short, 51% short, 17% adequate. Corn 90% harvested, 70% 1997, 69% avg. Burley 91% harvested, 85% 1997, 92% avg.; dark-air 96% harvested, 95% 1997, 97% avg.; dark-fire 95% harvested, 83% 1997, 94% avg. Pasture feed 22% very poor, 36% poor, 31% fair, 11% good. Cattle 2% very poor, 9% poor, 45% fair, 40% good, 4% excellent. Winter wheat 10% seeded, 10% 1997, 13% avg. Dry conditions allowed corn, tobacco farmers to continue harvest last week. Only 10% of the State's corn acreage remained to be harvested by week's end. Tobacco farmers took advantage of the favorable field conditions to practically wrap-up harvest for the 1998 season. Scattered showers across central, eastern areas helped tobacco farmers with curing, stripping activities. Winter wheat seeding, pasture growth continued to be hindered by the lack of moisture.

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**TEXAS:** The week began hot, dry; however, showers moved into many areas by late week. Land preparations moved ahead in the central, southern areas. Harvest operations increased in the plains, north-central areas. Producers continued to treat pastures for armyworms where populations reported worst in many years. Livestock markets down again in most areas.

Crops: Small Grains: Planting continued most areas during week. Growth, emergence slow some fields due hot weather, dryer conditions. Rain would benefit seeded fields across State. Armyworms continued to damage many fields. Chemical shortages, heavy demands on applicators problems facing producers. Corn: Harvest completed more High Plains fields early week. Scattered showers late week slowed progress. Cotton: Harvest expanded into more fields in the Plains during week. Bolls continued to open rapidly with hot weather. Additional defoliation also occurred. Harvest irrigated fields increased in the north-central areas. However, many dryland fields may not be harvested due poor development. Producers in southern areas continued to plow regrowth as fields dried out. Grain sorghum: Harvest increased in the plains early week. Additional baling occurred in poorer fields. Peanuts: Harvest increased in the plains, north-central, south. Fair, good yields reported. Rice: Second crop harvest off to a good start many fields. Harvest first crop virtually completed by end of week. Soybeans: Harvest of late-season, irrigated fields was better than that of the early-season, irrigated fields. Harvest in late-irrigated fields along Upper Coast better than early fields.

Commercial Vegetables: Rio Grande Valley, scattered showers kept land preparations, planting activity to minimum in some areas. Recent rains have helped sizes on citrus fruit. San Antonio-Winter Garden, planting activity continued without much delay. East, sweet potato harvest continued with no improvement in yields. High Plains, pumpkin harvest continued with slight delays due to scattered rain. Trans Pecos, chili peppers continued to make good progress. Some planting continued. Pecans: Harvest began few early groves. The expected crop still much less than last year.

Range and Livestock: Producers across Sstate continued to treat native pastures, small grain fields for armyworms. Worm damage was the worst of many years. Chemicals for spraying in high demand with a shortage in supply. Haying increased with recent rains in many areas. Livestock markets off again this past week. Supplemental feeding continued, however, at a slower pace due to improved grazing conditions.

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**UTAH:** Days suitable for fieldwork 6. Topsoil moisture 14% short, 85% adequate, 1% surplus. Subsoil moisture 16% short, 77% adequate, 7%

surplus. Pasture feed, range 6% poor, 25% fair, 55% good, 14% excellent. Cattle moved from summer range 46%, 45% 1997, 51% avg. Sheep moved from summer range 52%, 47% 1997, 53% avg. Winter wheat seeded 91%, 78% 1997, 75% avg.; emerged 45%, 28% 1997, 43% avg. Corn in dough stage 94%, 100% 1997, 54% avg.; in dent stage 67%, 69% 1997, 40% avg.; mature 41%, 28% 1997, 51% avg. Corn silage harvested 52%, 63% 1997, 61% avg. Alfalfa hay 3rd cutting 96%, 83% 1997, 88% avg.; 4th cutting 58%, 41% 1997, 43% avg. Alfalfa seed harvested 76%, 64% 1997, 59% avg. Onions harvested 65%, 60% 1997, 66% avg. Potatoes harvested 66%, 45% 1997, 41% avg. Peaches picked 93%, 100% 1997, 100% avg. Pears picked 94%, 100% 1997, 98% avg. Apples 20% picked, 24% 1997, 36% avg. Major farm/ranch activities included moving livestock, winding down much of the fruit harvest.

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**VIRGINIA:** Days suitable for fieldwork 6.3. Topsoil moisture 37% very short, 40% short, 23% adequate. Subsoil moisture 37% very short, 45% short, 18% adequate. Corn 67% harvested, 44% 1997, 52% avg.; 94% harvested for silage, 83% 1997, 83% avg. Cotton 41% harvested, 0% 1997, 10% avg.; 8% poor, 24% fair, 63% good, 5% excellent. Soybeans 46% dropping leaves, 37% 1997; 6% harvested, 3% 1997, 4% avg.; 12% very poor, 23% poor, 33% fair, 29% good, 3% excellent. Winter wheat 12% seeded, 1% 1997, 6% avg. Barley 9% seeded, 11% 1997, 20% avg. Flue cured tobacco 78% harvested, 77% 1997, 87% avg. Burley tobacco 91% harvested, 94% 1997, 93% avg. Fall apples 47% harvested, 42% 1997, 64% avg. Winter apples 20% harvested, 12% 1997, 22% avg. Apples 4% very poor, 12% poor, 46% fair, 30% good, 8% excellent. Pasture feed 30% very poor, 39% poor, 20% fair, 11% good. Scattered rain fell throughout the Commonwealth last week, helping to replenish much-needed topsoil moisture. Pasture conditions showed some improvement in some areas as a result. Livestock producers, however, still found it necessary to carry water, feed to their herds. Many producers are currently marketing their cattle due to poor pasture conditions, even though some are reporting lighter-than-normal weights. Many producers have reported that peanuts, cotton, soybeans are starting to show the effects of the past several months without significant precipitation. Despite the current conditions soybean producers have reported slightly higher than anticipated yields on their full season crop. Peanut producers are still hopeful for rain showers to soften the soil for ideal digging and combining conditions. Small grain planting is still at a standstill in many areas due to hard, dry soil conditions. Other activities for the week included harvesting of pumpkins, milo, cucumbers, snap beans, tomatoes, corn, some soybeans, defoliating, harvesting cotton, applying lime, fertilizers, and preparing land for fall planting.

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**WASHINGTON:** Days suitable for fieldwork 6.4. Topsoil moisture 5% very short, 59% short; 36% adequate. Subsoil moisture 2% very short, 43% short, 55% adequate. Potatoes 60% harvested, 54% 1997, 59% avg.; 10% fair, 90% good. Rain showers received at the end of the week were expected to kick planting into full gear in eastern areas, where producers have been waiting for precipitation before seeding winter wheat. Other regions reported emerged wheat in good condition. Sugar beet, potato harvests progressed, mint harvest was nearly complete. Hay, other roughage supplies, 2% short, 75% adequate, 23% surplus. Silage harvest continued, 4th, 5th cutting alfalfa hay production continued. Range, pasture feed 18% poor, 47% fair, 35% good. Cool, dry weather aided fruit harvests. Concord grape yields were low, some areas expected record wine grape yields. Red delicious, granny Smith apple harvests continued. Cranberry harvest underway in western areas, with average yields reported. Vegetable harvests continued, with pumpkin harvest also underway. Pre-harvest activities in Christmas tree fields continued.

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**WEST VIRGINIA:** Days suitable for fieldwork 6.3. Topsoil moisture 41% very short, 44% short, 15% adequate. Some areas of the State received some precipitation this past week, more rain is needed to improve soil moisture, crop conditions throughout the State. Dry weather has begun to hurt fall seeded crops. Apple 22% poor, 74% fair, 4% fair; harvest 53%, 35% 1997. Hay 12% very poor, 15% poor, 37% fair, 34% good, 2% excellent; 2nd cut 94%, 95% 1997, 91% avg.; 3rd cut 66%, 53% 1997, 64% avg. Corn 13% poor, 38% fair, 49% good; doughing 94%, 95% 1997, 97 avg.; dent 65%, 49% 1997; mature 39%, 13% 1997, 57% avg.; harvested for grain 3%, 4% 1997, 17% avg. Soybean 11% poor, 44% fair, 45% good; 99% podding, 100% 1997, 100% avg.; 68% dropping leaves, 62% 1997, 57% avg. Tobacco 19% poor, 52% fair, 25% good, 4% excellent; topped 99%, 100% 1997, 100% avg.; harvested 59%, 85% 1997, 78% avg. Wheat planted 18%, 16% 1997. Cattle 1% poor, 21% fair, 74% good, 4% excellent. Sheep 2% poor, 33% fair, 64% good, 1% excellent. Pastures drying up from dry weather. There were reports of pinkeye.

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**WISCONSIN:** Days suitable for fieldwork 6.0. Soil moisture 14% very short, 39% short, 46% adequate, 1% surplus. Soybeans leaves dropping 93%, 65% 1997, 51% avg.; harvested 10%, 0% 1997, 0% avg.; 1% very poor, 1% poor, 10% fair, 52% good, 36% excellent. Fourth-crop hay harvested 53%. Corn for silage harvested 87%, 26% 1997, 34% avg. Last week marked the official start of autumn; scattered, light frosts were observed in the north-central, central, southwestern parts of the State. However, there has not been a hard frost; consequently, no frost-related crop damage. Hay harvest was nearly complete for the State. Many farmers harvested fourth and fifth crops this season; as a result, supplies are high. Dry weather in some parts of the State also contributed to the declining harvest activity. Many farmers will leave hay remaining in the fields for use as snow cover. Soybeans, corn for grain were in the early stages of being harvested, corn harvested for silage was nearly complete. Although the consensus among reporters was not unanimous, there was speculation that many will have record yields for corn, soybeans. Potato, apple, pear harvests continued and were reported to be in good to excellent condition. Winter wheat continued to be planted, had already emerged in some areas. Pasture feed 3% very poor, 17% poor, 29% fair, 44% good, 7% excellent.

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**WYOMING:** Days suitable for fieldwork 5.1. Topsoil moisture 18% short, 77% adequate, 5% surplus. Winter wheat emerged 90%, 92% 1997, 81% avg. Corn mature 85%, 94% 1997, 81% avg.; harvested for grain 8%, 5% 1997, 17% avg.; harvested for silage 88%, 95% 1997, 91% avg. Dry beans combined 91%, 96% 1997, 83% avg. Alfalfa 3rd cutting 73%, 54% 1997, 75% avg. Sugar beets harvested 7%, 13% 1997, 14% avg. Range, pasture feed 1% very poor, 7% poor, 23% fair, 58% good, 11% excellent. Corn 2% poor, 7% fair, 84% good, 7% excellent. Sugar beet 1% poor, 21% fair, 78% good. Winter wheat 12% fair, 76% good, 12% excellent. Livestock mostly good. Cattle moved from summer ranges 55%, 47% 1997, 50% avg. Sheep moved from summer ranges 59%, 53% 1997, 54% avg. Cool weather prevailed across the State, with welcome moisture arriving late in the week. Mountains were receiving snow. Producers were still waiting for the first hard freeze.

# International Weather and Crop Summary

**September 27 - October 3, 1998**

## HIGHLIGHTS

**FSU-WESTERN:** Although dry weather continued to help summer crop harvesting in eastern Ukraine and southern Russia, topsoils remained unfavorably dry for winter wheat emergence.

**FSU-NEW LANDS:** Cold, showery weather continued to hamper spring grain harvesting in Russia, while dry weather in Kazakstan allowed harvest activities to progress toward completion.

**EUROPE:** Frequent showers hampered summer crop harvesting and winter grain planting, especially in southern and eastern areas.

**AUSTRALIA:** Favorably drier weather dominated the east, aiding winter grain development and spring fieldwork.

**SOUTH ASIA:** Seasonable dryness was welcomed in the northwest as flooding rains returned to eastern rice areas.

**SOUTHEAST ASIA:** Drier weather favored rice harvesting across most of Thailand and northern Vietnam, while showers slowed harvesting elsewhere in the region.

**EASTERN ASIA:** Mostly dry weather favored summer crop harvesting across most of China, while Tropical Storm Yanni produced excessive rain and flooding in South Korea.

**SOUTH AMERICA:** In central Argentina, rain continued to ease dryness for vegetative winter wheat, while rain slowed wheat harvesting and increased quality problems in southern Brazil.

# September 1998

***MONTHLY DATA FROM SELECTED FOREIGN CITIES***
***CLIMATE PREDICTION CENTER-NCEP-NWS-NOAA***
****** DATA NOT AVAILABLE***

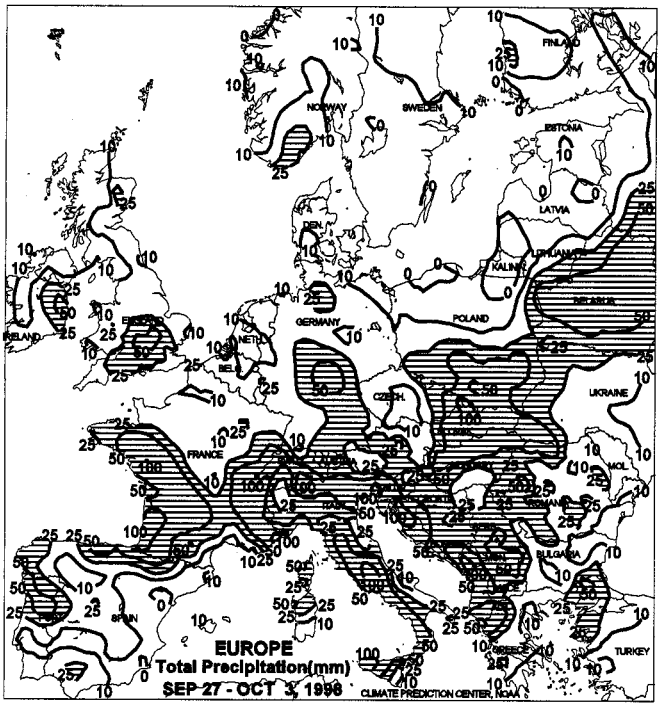
| COUNTRY | CITY | TEMPERATURE (C) AVG MAX | AVG MIN | HI MAX | LO MIN | AVG | DPART F/NRM | PRECIPITATION (MM) TOTAL | DPART F/NRM |
|---|---|---|---|---|---|---|---|---|---|
| NORWAY | OSLO | 15 | 8 | 23 | 2 | 12 | 2.3 | 126 | 28 |
| SWEDEN | STOCKHOLM | 16 | 9 | 22 | 2 | 13 | 0.8 | 0 | -53 |
| FINLAND | HELSINKI | 15 | 8 | 21 | 0 | 12 | 1.8 | 50 | -23 |
| UKINGDO | GLASGOW | 17 | 10 | 24 | 3 | 13 | 0.4 | 80 | -18 |
| | EDINBURGH | 17 | 10 | 24 | 4 | 13 | 1 | 45 | -22 |
| IRELAND | DUBLIN | 17 | 10 | 21 | 4 | 14 | 0.3 | 94 | 28 |
| ICELAND | REYKJAVIK | 11 | 7 | 16 | 2 | 9 | 1.4 | 37 | -29 |
| DENMARK | COPENHAGEN | 17 | 11 | 20 | 7 | 14 | 0.1 | 66 | 4 |
| LUXEMBO | LUXEMBOURG | 17 | 11 | 22 | 6 | 14 | 0.4 | 129 | 62 |
| SWITZERL | ZURICH | 17 | 11 | 25 | 7 | 14 | -0.3 | 159 | 64 |
| | GENEVA | 20 | 11 | 29 | 5 | 15 | 0.6 | 171 | 89 |
| FRANCE | PARIS/ORLY | 20 | 12 | 28 | 6 | 16 | *** | 80 | *** |
| | STRASBOURG | 20 | 11 | 27 | 4 | 15 | 0.4 | 83 | 27 |
| | BOURGES | 21 | 12 | 28 | 6 | 17 | 0.6 | 84 | 23 |
| | BORDEAUX | 23 | 15 | 31 | 9 | 19 | 1.5 | 165 | 91 |
| | TOULOUSE | 24 | 14 | 31 | 9 | 19 | 0.9 | 81 | 34 |
| | MARSEILLE | 25 | 16 | 31 | 9 | 20 | 0.4 | 169 | 122 |
| SPAIN | VALLADOLID | 25 | 13 | 33 | 8 | 19 | 0.5 | 28 | -5 |
| | MADRID | 27 | 15 | 34 | 9 | 21 | 0.5 | 62 | 28 |
| | SEVILLE | 31 | 19 | 37 | 16 | 25 | -0.1 | 64 | 43 |
| PORTUGA | LISBON | 25 | 18 | 30 | 15 | 21 | 0.1 | 42 | 16 |
| GERMANY | HAMBURG | 17 | 11 | 21 | 3 | 14 | 0.8 | 93 | 23 |
| | BERLIN | 18 | 11 | 24 | 6 | 15 | -0.1 | 37 | -9 |
| | DUSSELDORF | 19 | 12 | 24 | 7 | 16 | 0.3 | 158 | 96 |
| | LEIPZIG | 18 | 11 | 25 | 6 | 14 | 0.3 | 93 | 48 |
| | DRESDEN | 17 | 10 | 25 | 4 | 14 | -0.5 | 98 | 50 |
| | STUTTGART | 19 | 10 | 27 | 2 | 14 | 0.1 | 57 | -3 |
| | NURNBERG | 18 | 9 | 25 | 2 | 14 | -0.3 | 99 | 47 |
| AUSTRIA | VIENNA | 19 | 12 | 24 | 4 | 15 | -0.3 | 131 | 79 |
| | INNSBRUCK | 19 | 10 | 29 | 5 | 14 | 0.2 | 93 | 14 |
| CZECHRE | PRAGUE | 17 | 9 | 28 | 4 | 13 | -0.2 | 77 | 37 |
| POLAND | WARSAW | 18 | 9 | 26 | 3 | 13 | 0.2 | 25 | -16 |
| | LODZ | 18 | 9 | 27 | 3 | 14 | 0.5 | 46 | -7 |
| | KATOWICE | 18 | 9 | 26 | 3 | 14 | 0.8 | 65 | 12 |
| | PRZEMYSL | 17 | 8 | 25 | 3 | 13 | -0.9 | 41 | -14 |
| HUNGARY | BUDAPEST | 20 | 12 | 26 | 7 | 16 | -0.7 | 139 | 98 |
| YUGOSLA | BELGRADE | 22 | 13 | 28 | 8 | 18 | -0.1 | 95 | 46 |
| ROMANIA | BUCHAREST | 22 | 11 | 27 | 6 | 16 | -1.4 | 120 | 83 |
| BULGARIA | SOFIA | 20 | 11 | 27 | 6 | 16 | -0.8 | 60 | 15 |
| ITALY | MILAN | 26 | 16 | 30 | 8 | 21 | 2.1 | 104 | 37 |
| | VERONA | 24 | 16 | 29 | 10 | 20 | 1 | 97 | 34 |
| | VENICE | 23 | 15 | 28 | 10 | 19 | -0.1 | 98 | 32 |
| | GENOA | 24 | 18 | 28 | 12 | 21 | -1.2 | 269 | 154 |
| | ROME | 26 | 16 | 30 | 11 | 21 | -0.1 | 96 | 25 |
| | NAPLES | 26 | 17 | 31 | 13 | 22 | 0.8 | 91 | 7 |
| GREECE | THESSALONIKA | 26 | 17 | 29 | 14 | 22 | -0.4 | 28 | 2 |
| | LARISSA | 27 | 15 | 31 | 9 | 21 | -0.8 | 121 | 90 |
| | ATHENS | 29 | 20 | 31 | 15 | 24 | 0 | 7 | -6 |
| TURKEY | ISTANBUL | 24 | 18 | 31 | 12 | 21 | 1.4 | 55 | 14 |
| | ANKARA | 25 | 10 | 32 | 4 | 18 | -0.3 | 21 | -16 |
| CYPRUS | LARNACA | 31 | 20 | 34 | 16 | 26 | 0.8 | 3 | -2 |
| ESTONIA | TALLINN | 16 | 8 | 23 | 0 | 12 | 1.2 | 29 | -53 |
| LITHUANI | KAUNAS | 17 | 8 | 23 | 3 | 13 | 0.5 | 22 | -35 |
| BELARUS | MINSK | 16 | 8 | 23 | 2 | 12 | 0.4 | 102 | 46 |
| RUSSIA | KAZAN | 15 | 7 | 26 | 1 | 11 | -0.2 | 56 | 11 |
| | MOSCOW | 15 | 7 | 24 | 0 | 11 | 0.1 | 52 | -9 |
| | YEKATERINBURG | 12 | 5 | 26 | 0 | 9 | -1 | 46 | -4 |
| | OMSK | 13 | 5 | 24 | -2 | 9 | -1.7 | 74 | 43 |
| | NOVOSIBIRSK | 12 | 4 | 23 | -4 | 8 | -2.2 | 58 | 25 |
| | BARNAUL | 14 | 6 | 23 | -2 | 10 | -0.9 | 45 | 16 |
| | KHABAROVSK | 20 | 9 | 27 | 1 | 15 | 1.4 | 28 | -63 |
| | VLADIVOSTOK | 20 | 14 | 24 | 7 | 17 | 1.5 | 120 | -10 |
| | SARATOV | 20 | 10 | 29 | 2 | 15 | 2.6 | 1 | -35 |
| | VOLGOGRAD | 22 | 11 | 31 | 3 | 17 | 1.1 | 13 | -8 |
| | ASTRAKHAN | 24 | 11 | 32 | 7 | 18 | 0.4 | 12 | -10 |
| | KRASNODAR | 25 | 13 | 35 | 7 | 19 | 1.6 | 52 | 23 |
| | ORENBURG | 21 | 7 | 29 | -5 | 14 | 0.2 | 3 | -28 |
| KAZAKHS | TSELINOGRAD | 18 | 6 | 31 | -3 | 12 | -0.1 | 14 | -10 |
| | KARAGANDA | 19 | 6 | 37 | -3 | 12 | 0.1 | 25 | 3 |
| GEORGIA | TBILISI | 26 | 16 | 34 | 11 | 21 | 1.6 | 3 | -35 |

**Based on Preliminary Reports**

# September 1998

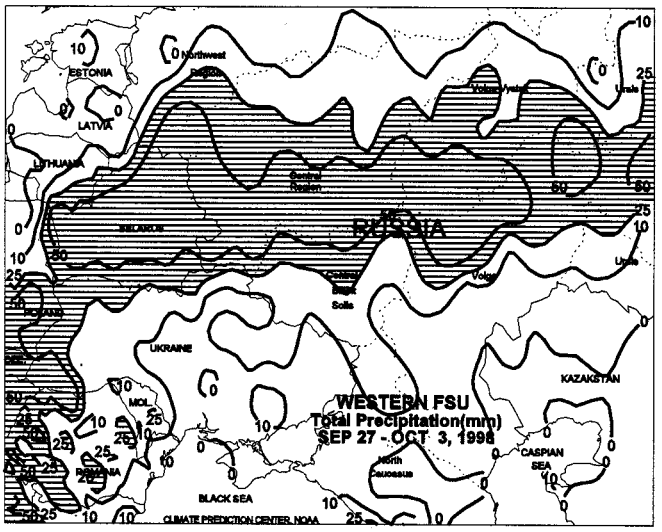
| COUNTRY | CITY | TEMPERATURE (C) AVG MAX | AVG MIN | HI MAX | LO MIN | AVG | DPART F/NRM | PRECIPITATION (MM) TOTAL | DPART F/NRM |
|---|---|---|---|---|---|---|---|---|---|
| UZBEKIST | TASHKENT | ** | ** | 39 | 3 | ** | *** | 12 | 7 |
| TURKMENI | ASHKHABAD | ** | ** | 41 | 13 | ** | *** | 0 | -4 |
| SYRIA | DAMASCUS | 35 | 15 | 40 | 11 | 25 | 1.5 | 0 | 0 |
| ISRAEL | JERUSALEM | 29 | 18 | 37 | 15 | 24 | 2 | 0 | 0 |
| PAKISTAN | KARACHI | 34 | 28 | 41 | 26 | 31 | 1.8 | 0 | -9 |
| INDIA | AMRITSAR | 32 | 24 | 38 | 20 | 28 | -0.3 | 9 | -77 |
| | NEW DELHI | 34 | 26 | 37 | 23 | 30 | 0.7 | 177 | 54 |
| | AHMEDABAD | 33 | 25 | 36 | 22 | 29 | 0.1 | 126 | 14 |
| | INDORE | 31 | 23 | 34 | 22 | 27 | 0.9 | 274 | 94 |
| | CALCUTTA | 33 | 26 | 37 | 24 | 29 | 0.3 | 218 | -86 |
| | VERAVAL | 32 | 26 | 36 | 25 | 29 | 1.2 | 26 | -69 |
| | BOMBAY | 31 | 25 | 35 | 23 | 28 | 1.3 | 521 | 212 |
| | POONA | 29 | 22 | 31 | 20 | 25 | 0.3 | 149 | 17 |
| | BEGAMPET | 30 | 23 | 32 | 21 | 27 | 0.3 | 133 | -38 |
| | VISHAKHAPATNAM | 31 | 26 | 34 | 24 | 29 | *** | 297 | ** |
| | MADRAS | 34 | 26 | 38 | 24 | 30 | 0.4 | 90 | -50 |
| | MANGALORE | 29 | 23 | 31 | 22 | 26 | 0.1 | 670 | 403 |
| HONGKO | KINGS PEAK | 30 | 25 | 32 | 23 | 28 | *** | 246 | ** |
| N KOREA | PYONGYANG | 24 | 16 | 32 | 11 | ** | *** | 120 | -30 |
| S KOREA | SEOUL | 28 | 19 | 33 | 16 | 24 | 3.2 | 178 | 36 |
| JAPAN | SAPPORO | 23 | 16 | 30 | 10 | 20 | 2.4 | 225 | 87 |
| | NAGOYA | 29 | 22 | 32 | 18 | 25 | 1.9 | 278 | 67 |
| | TOKYO | 27 | 22 | 33 | 18 | 25 | 1.5 | 237 | 57 |
| | YOKOHAMA | 27 | 22 | 30 | 17 | 24 | 1.6 | 284 | 85 |
| | KYOTO | 29 | 22 | 33 | 20 | 26 | 2.3 | 361 | 156 |
| | OSAKA | 29 | 23 | 34 | 19 | 26 | 1.6 | 162 | -2 |
| THAILAND | PHETCHABUN | 33 | 25 | 35 | 23 | 29 | 1.2 | 74 | -204 |
| | BANGKOK | 33 | 26 | 35 | 24 | 29 | 0.6 | 589 | 247 |
| MALAYSIA | KUALA LUMPUR | 32 | 24 | 34 | 23 | 28 | 2 | 150 | -41 |
| VIETNAM | HANOI | 32 | 26 | 35 | 22 | 29 | 1.2 | 114 | -140 |
| CHINA | HARBIN | 22 | 11 | 28 | 3 | 16 | 2.2 | 91 | 33 |
| | HAMI | 28 | 11 | 37 | 2 | 20 | 0.9 | 11 | 7 |
| | LANCHOW | 26 | 13 | 33 | 3 | 20 | 4 | 11 | -33 |
| | BEIJING | 28 | 17 | 33 | 10 | 23 | 2.9 | 5 | -44 |
| | TIENTSIN | 29 | 18 | 35 | 12 | 24 | 2.7 | 7 | -33 |
| | LHASA | 21 | 9 | 24 | 6 | 15 | 0.8 | 65 | 5 |
| | KUNMING | 25 | 16 | 27 | 11 | 20 | 2.7 | 35 | -87 |
| | CHENGCHOW | 30 | 19 | 35 | 13 | 24 | 3.5 | 1 | -91 |
| | YEHCHANG | 29 | 21 | 34 | 16 | 25 | 1.6 | 49 | -71 |
| | HANKOW | 29 | 22 | 35 | 18 | 26 | 2.4 | 26 | -63 |
| | CHUNGKING | 29 | 21 | 37 | 16 | 25 | *** | 117 | ** |
| | CHIHKIANG | 30 | 20 | 35 | 14 | 25 | 1.8 | 17 | -49 |
| | WU HU | 28 | 20 | 34 | 14 | 24 | *** | 66 | ** |
| | SHANGHAI | 27 | 22 | 32 | 18 | 25 | *** | 124 | ** |
| | NANCHANG | 29 | 22 | 35 | 18 | 26 | 1.3 | 85 | 9 |
| | TAIPEI | 29 | 25 | 35 | 23 | 27 | 0.6 | 482 | 261 |
| | CANTON | 32 | 24 | 34 | 21 | 28 | 0.7 | 155 | -4 |
| | NANNING | 33 | 25 | 36 | 20 | 29 | 1.9 | 29 | -92 |
| CANARY I | LAS PALMAS | 28 | 22 | 30 | 20 | 25 | 1.1 | 0 | -7 |
| MOROCC | CASABLANCA | 25 | 20 | 27 | 16 | 23 | 0.9 | 3 | -2 |
| | MARRAKECH | 32 | 20 | 42 | 17 | 26 | 0.6 | 1 | -5 |
| ALGERIA | ALGER | 30 | 19 | 36 | 13 | 25 | 1.7 | 22 | -7 |
| | BATNA | 31 | 17 | 39 | 9 | 24 | 3.6 | 26 | 5 |
| TUNISIA | TUNIS | 31 | 21 | 37 | 16 | 26 | 1.7 | 37 | 5 |
| NIGER | NIAMEY | 33 | 24 | 38 | 22 | 29 | 0.2 | 209 | 119 |
| MALI | TIMBUKTU | 37 | 26 | 43 | 21 | 32 | 1.3 | 56 | 33 |
| | BAMAKO | 31 | 23 | 36 | 19 | 27 | 0.7 | 151 | -42 |
| MAURITAN | NOUAKCHOTT | 34 | 26 | 43 | 23 | 30 | 0.9 | 160 | 135 |
| SENEGAL | DAKAR | 30 | 26 | 33 | 23 | 28 | 0.8 | 149 | 11 |
| CHAGOS | DIEGO GARCIA | ** | 26 | 29 | 24 | ** | *** | 146 | -92 |
| LIBYA | TRIPOLI | 35 | 22 | 46 | 19 | 28 | 1.8 | 0 | -15 |
| | BENGHAZI | 31 | 22 | 38 | 19 | 26 | 1 | 0 | -3 |
| EGYPT | CAIRO | 34 | 23 | 41 | 20 | 29 | 1.9 | 0 | 0 |
| | ASWAN | ** | ** | 45 | 21 | ** | *** | ** | ** |
| ETHIOPIA | ADDIS ABABA | ** | ** | 23 | 9 | ** | *** | ** | ** |
| KENYA | NAIROBI | 24 | 13 | 28 | 9 | 18 | -0.1 | 18 | -7 |
| TANZANIA | DAR ES SALAAM | 30 | 20 | 31 | 17 | 25 | 0.7 | 70 | 41 |
| GABON | LIBREVILLE | 28 | 24 | 30 | 23 | 26 | 0.3 | 228 | 122 |
| TOGO | LOME | 30 | 24 | 33 | 23 | 27 | 1.2 | 112 | 64 |
| BURKINA | OUAGADOUGOU | 32 | 24 | 35 | 20 | 28 | 1 | 199 | 60 |
| COTE D'I | ABIDJAN | 29 | 23 | 36 | 21 | 26 | 1.4 | 25 | -40 |
| MOZAMBI | MAPUTO | 28 | 18 | 38 | 14 | 23 | 1.8 | 37 | -6 |
| ZAMBIA | LUSAKA | 27 | ** | 34 | 11 | ** | *** | 0 | -1 |
| ZIMBABW | HARARE | 27 | 13 | 30 | 11 | 20 | 1.5 | 0 | -9 |
| S AFRICA | PRETORIA | 27 | 13 | 34 | 9 | 20 | 1.5 | 55 | 34 |
| | JOHANNESBURG | 23 | 9 | 29 | 4 | 16 | -0.3 | 149 | 122 |
| | BETHAL | 23 | 9 | 29 | 2 | 16 | 1 | 58 | 34 |
| | DURBAN | 23 | 16 | 31 | 10 | 19 | 0.3 | 28 | -45 |
| | CAPE TOWN | 19 | 9 | 28 | 4 | 14 | 0.1 | 29 | -11 |
| CANADA | TORONTO | 25 | 12 | 34 | 4 | 18 | 2.9 | 39 | -35 |
| | MONTREAL | 21 | 11 | 27 | 4 | 16 | 1.6 | 64 | -23 |
| | WINNIPEG | 21 | 7 | 32 | 0 | 14 | 1.8 | 11 | -41 |
| | REGINA | 22 | 7 | 35 | -6 | 15 | 2.9 | 30 | -5 |
| | SASKATOON | 21 | 6 | 30 | -5 | 13 | 2 | 28 | -4 |
| | LETHBRIDGE | 24 | 7 | 35 | -1 | 15 | 2.9 | 17 | -28 |
| | CALGARY | 20 | 6 | 32 | -1 | 13 | 2.2 | 26 | -21 |
| | EDMONTON | 19 | 7 | 30 | 1 | 13 | 2 | 40 | -2 |
| | VANCOUVER | 20 | 12 | 26 | 8 | 16 | 1.8 | 11 | -54 |
| MEXICO | GUADALAJARA | 22 | 18 | 26 | 15 | 20 | -0.4 | 206 | 47 |
| | MEXICO CITY | 21 | 15 | 25 | 14 | 18 | 1.6 | 201 | 84 |
| | ACAPULCO | 31 | 25 | 34 | 23 | 28 | 0.2 | 375 | 0 |
| BERMUDA | ST. GEORGES | 30 | 24 | 32 | 21 | 27 | 0.1 | 149 | -13 |
| BAHAMAS | NASSAU | 32 | 25 | 35 | 23 | 29 | 1.3 | 118 | -49 |
| JAMAICA | KINGSTON | 32 | 27 | 35 | 23 | 30 | 1.4 | 131 | 16 |
| P RICO | SAN JUAN | 31 | 25 | 34 | 24 | 28 | 0.2 | 177 | 55 |
| GUADELO | RAIZET | 32 | 25 | 34 | 23 | 29 | 1.5 | 189 | 42 |
| MARTINIQ | LAMENTIN | 32 | 25 | 34 | 23 | 28 | 1.8 | 226 | 11 |
| BARBADO | BRIDGETOWN | 31 | 26 | 32 | 23 | 28 | 0.7 | 193 | 57 |
| TRINIDAD | PORT OF SPAIN | 33 | 24 | 35 | 23 | 29 | 2 | 146 | -56 |
| COLOMBI | BOGOTA | 19 | 9 | 22 | 5 | 14 | 0.8 | 105 | 47 |
| VENEZUE | CARACAS | ** | ** | 33 | 23 | ** | *** | ** | ** |
| F GUIANA | CAYENNE | 33 | 23 | 34 | 21 | 28 | 1.3 | 56 | -19 |
| BRAZIL | RECIFE | 28 | 22 | 29 | 17 | 25 | 0.2 | 45 | -68 |
| | BELO HORIZONTE | 28 | 19 | 32 | 15 | 24 | 2.7 | 39 | -2 |
| | FRANCA | 28 | 18 | 33 | 12 | 23 | 3.9 | 39 | -33 |
| | RIO DE JANEIRO | 27 | 23 | 34 | 20 | ** | *** | 95 | 28 |
| | LONDRINA | ** | ** | 32 | 16 | ** | *** | ** | ** |
| | SANTA | 21 | 12 | 31 | 6 | 16 | 0.2 | 183 | 29 |
| | PORTO | 20 | 12 | 27 | 7 | 16 | -0.9 | 99 | -25 |
| PERU | LIMA | 19 | 15 | 22 | 15 | *** | ** | 0 | 0 |
| BOLIVIA | LA PAZ | ** | ** | 33 | -9 | ** | *** | ** | ** |
| CHILE | SANTIAGO | 19 | 5 | 28 | -1 | 12 | 1 | 10 | -11 |
| ARGENTIN | IGUAZU | 23 | 14 | 32 | 6 | 19 | *** | 294 | ** |
| | FORMOSA | 24 | 14 | 35 | 6 | 19 | -0.7 | 142 | 49 |
| | CERES | 23 | 8 | 30 | 0 | 15 | -0.9 | 8 | -40 |
| | CORDOBA | 20 | 8 | 29 | -1 | 14 | -1.1 | 27 | -12 |
| | RIO CUARTO | 18 | 8 | 25 | 1 | 13 | -0.7 | 36 | -6 |
| | ROSARIO | 20 | 7 | 27 | -2 | 14 | -0.2 | 13 | -49 |
| | BUENOS AIRES | 18 | 7 | 24 | 0 | 13 | 0 | 47 | -13 |
| | SANTA ROSA | 19 | 4 | 26 | -6 | 12 | -0.5 | 23 | -16 |
| | TRES ARROYOS | 16 | 6 | 24 | -2 | 11 | 0.1 | 164 | 110 |
| NEW CAL | NOUMEA | 25 | 20 | 29 | 16 | 23 | 2 | 77 | 38 |
| FIJI | NAUSORI | 27 | 21 | 29 | 16 | 24 | 0.9 | 87 | -77 |
| SAMOA | PAGO PAGO | 31 | 27 | 33 | 24 | 29 | 2.5 | 99 | -64 |
| TAHITI | PAPEETE | 29 | 22 | 30 | 21 | 26 | 1.1 | 57 | 12 |
| AUSTRALI | DARWIN | 32 | 24 | 34 | 21 | 28 | 0.4 | 13 | -5 |
| | BRISBANE | 23 | 15 | 26 | 11 | 19 | 0.7 | 102 | 69 |
| | PERTH | 19 | 9 | 24 | 2 | 14 | -0.6 | 114 | 43 |
| | CEDUNA | 22 | 9 | 33 | 3 | 15 | 0.8 | 18 | -10 |
| | ADELAIDE | 19 | 10 | 28 | 4 | 15 | 1.2 | 47 | -9 |
| | MELBOURNE | 17 | 8 | 29 | 0 | 13 | 0.8 | 19 | -29 |
| | WAGGA | 17 | 8 | 25 | 0 | 13 | 1.5 | 72 | 23 |
| | CANBERRA | 16 | 6 | 25 | -1 | 11 | 1.7 | 58 | 2 |
| INDONESI | DJAKARTA | 31 | 26 | 34 | 23 | ** | *** | 160 | ** |
| PHILIPPI | MANILA | 31 | 26 | 36 | 24 | 28 | 0.6 | 594 | 252 |

**Based on Preliminary Reports**



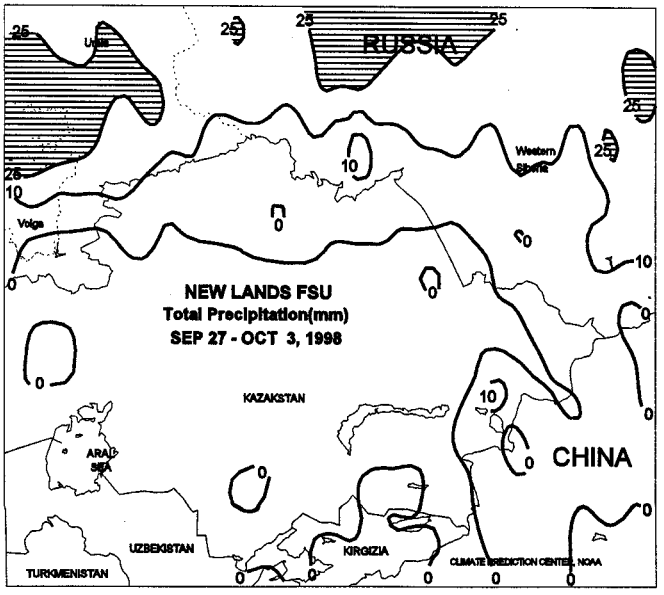

## EUROPE

Widespread frequent showers fell across Europe during the week, including moisture from the remnants of Hurricanes Karl, Ivan, and Jeanne. Greatest amounts of rain (40 to more than 50 mm) fell from western and southern France, eastward through Italy, into Serbia, Slovenia, Hungary, Slovakia, and southern Poland, delaying corn and sunflower harvesting and winter grain planting. Warmer, drier weather prevailed in southeastern Romania and Bulgaria, allowing fieldwork to resume after last week's heavy rains. Early-season rains (10-27 mm) continued in western and southern Spain, slowing crop harvesting but increasing topsoil moisture for upcoming winter grain planting. In northern Europe, light showers (3-25 mm) spread from England, eastward through northern France, the Benelux countries and northern Germany, into northern Poland, slowing corn and sugar beet harvesting and winter grain planting. The first freeze of the autumn season occurred in northeastern Poland. Extreme minimum temperatures ranged from -1 to -3 degrees C, ending the growing season. Weekly temperatures averaged 1 to 3 degrees C below normal in northeastern Europe and Spain, and 1 to 3 degrees C above normal in southeastern Europe.



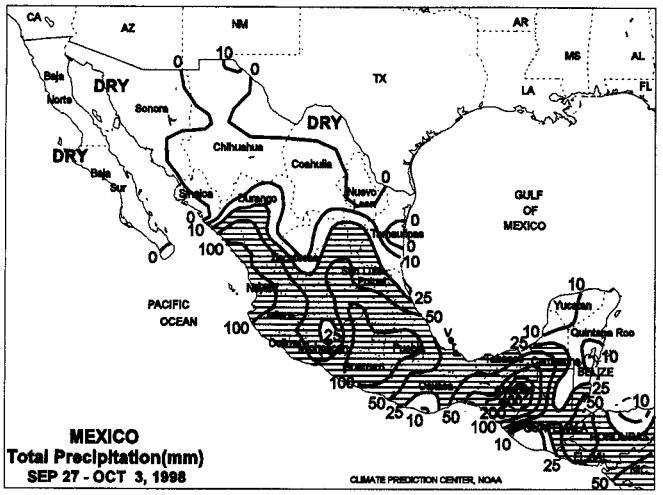

## FSU-WESTERN

In Russia, soaking rain (25-60 mm, with local amounts in excess of 70 mm) fell across the north (Northwest Region, Central Region, northern Central Black Soils region, Volga Vyatsk, and the upper Volga Valley), halting late-season fieldwork. However, the precipitation maintained abundant to excessive moisture conditions for winter grain establishment. Much colder weather pushed southward across northern Russia at week's end, turning rain to snow and dropping minimum temperatures below freezing (-1 to -5 degrees C). Farther south in Russia, light scattered showers (3-16 mm) fell in the lower Volga Valley and the North Caucasus region, causing only brief delays in corn, sunflower, and sugar beet harvesting. Reports as of September 28 indicated that sunflower and sugar beet harvesting in Russia was 31 and 47 percent complete, respectively. Topsoils in southern Russia remained unfavorably dry for winter wheat emergence and establishment. In Ukraine, showers slowed summer crop harvesting in the west, with dry weather allowing rapid harvest progress in the east. Persistent dryness in the east has reduced topsoil moisture to unfavorably low levels for uniform germination and crop establishment. Elsewhere, wet weather soaked crop areas in Belarus, halting late-summer crop harvesting. Weekly temperatures averaged 1 to 4 degrees C below normal in northern Russia, Belarus, and the Baltics, and 1 to 3 degrees C above normal in Ukraine and southern Russia.



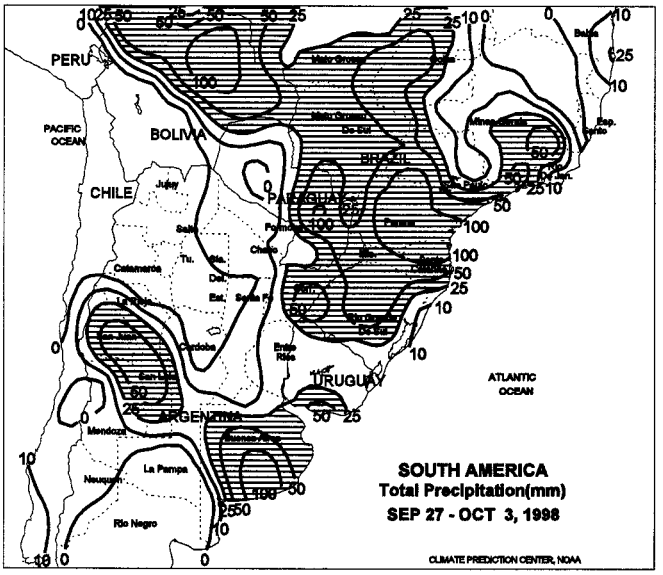

## FSU-NEW LANDS

Spring grain harvesting continued to progress in Russia and was likely nearing completion in Kazakstan. In Russia, frequent showers (10-43 mm) were accompanied by unseasonably cold weather, including some snow, hampering spring grain harvesting. The exception was in the Altay Kray region of Russia, where mostly dry weather allowed harvest activities to progress without delays. Reports as of September 28 indicated that small grains and pulses, excluding corn, were about 68 percent harvested. Weekly temperatures averaged 1 to 4 degrees C below normal in Russia. Extreme minimum temperatures ranged from -1 to -5 degrees C throughout most of the region. In Kazakstan, cool but generally dry weather allowed spring grain harvesting to advance toward completion. In cotton-producing areas of Central Asia, unseasonably warm, dry weather favored boll maturation and harvesting. Weekly temperatures averaged 2 to 5 degrees C above normal in the region.



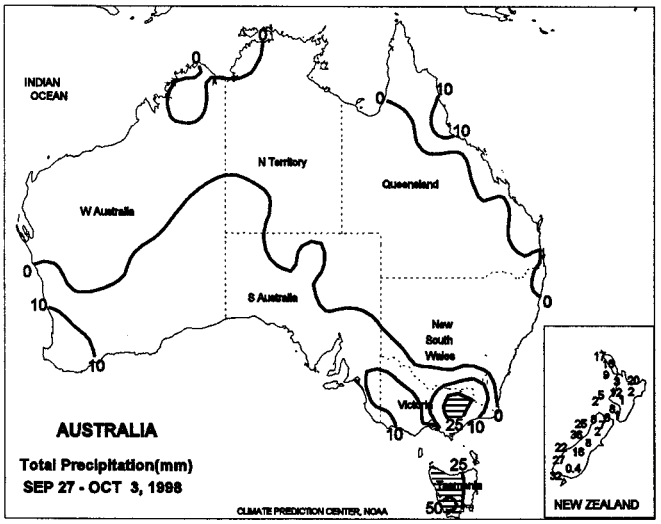

## MEXICO

Widespread showers (30-110 mm) continued to benefit filling corn across the Southern Plateau Corn Belt. Heavier rain (140-230 mm) near Mexico City caused local flooding. However, drier weather is needed as the corn crop nears maturity. Dry weather prevailed across northern Mexico. Temperatures averaged 1 to 3 degrees C above normal across most of Mexico.




## SOUTH AMERICA

In Argentina, timely moderate to heavy rain (25-110 mm) fell early in the week across central and southern Buenos Aires, boosting topsoil moisture for vegetative winter wheat. The heaviest rain, however, caused local flooding. Elsewhere, mostly dry weather continued to reduce moisture for wheat development in southern Santa Fe and La Pampa. Moisture is also needed in these areas for the upcoming summer crop season, where sunflower planting is just beginning. Temperatures averaged near normal across central Argentina and 2 to 4 degrees C below normal across the north. In southern Brazil, moderate to heavy rain (20-140 mm) fell across the eastern wheat areas of Rio Grande do Sul and Parana, reducing wheat quality and slowing harvesting. Widespread rain (15-50 mm) covered south-central Brazil (Mato Grosso do Sul, Mato Grosso, Minas Gerais, and Goias), increasing topsoil moisture for field preparations for summer crop planting. Temperatures averaged near to slightly above normal in southern Brazil.

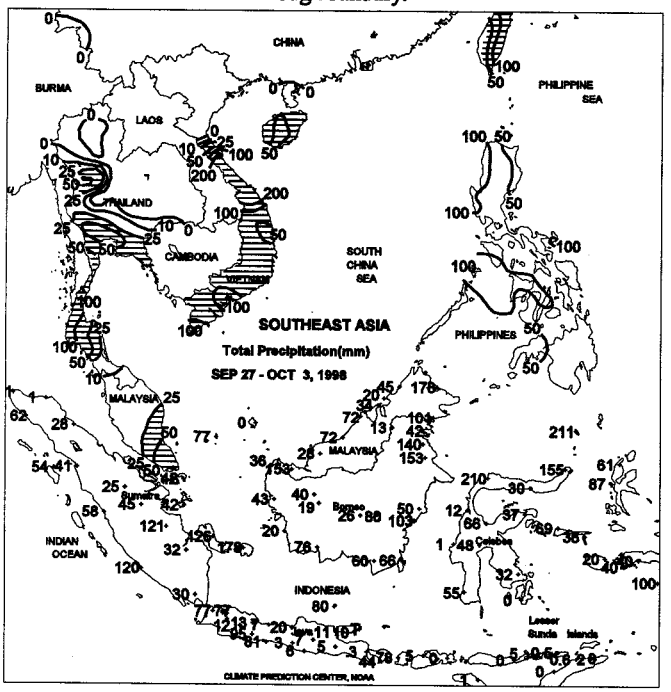



## AUSTRALIA

Much-needed, drier weather dominated the east. The break in the chronically wet pattern, accompanied by above-normal temperatures, favored mature winter grains and allowed cotton and sorghum fields an opportunity to dry prior to planting. Lingering light showers (10 mm or less) kept topsoils moist across the southeast. In Western Australia, scattered, mostly light showers (2-25 mm) covered southern sections of the winter grain belt as the north remained dry. Temperatures were mild, although unseasonable coolness (lows from 1-3 degrees C) lingered early in the week over sections of the west. Some of these same areas reported freeze damage to flowering wheat on the 26th. The extent of any permanent damage should become evident in a few weeks. In New Zealand, mostly dry weather (2-19 mm) continued throughout the main pasture areas.

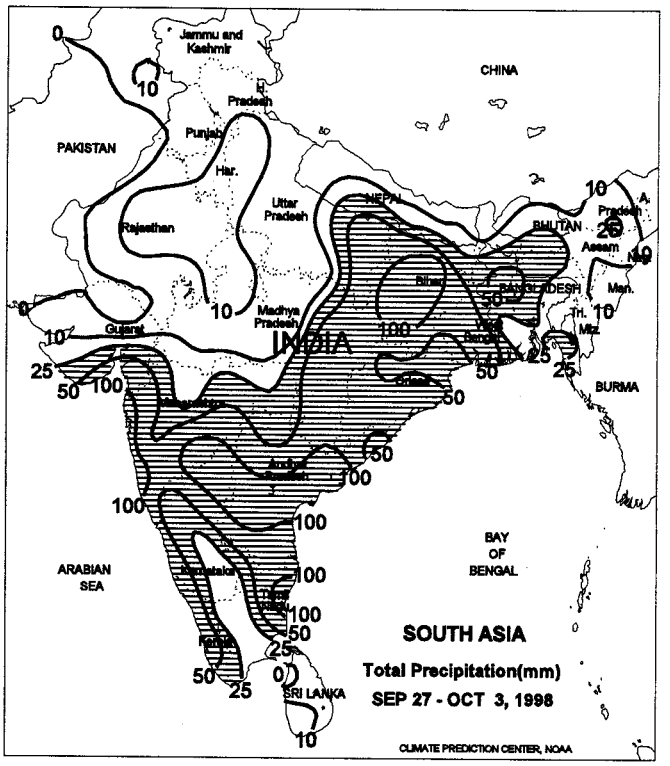
## SOUTHEAST ASIA

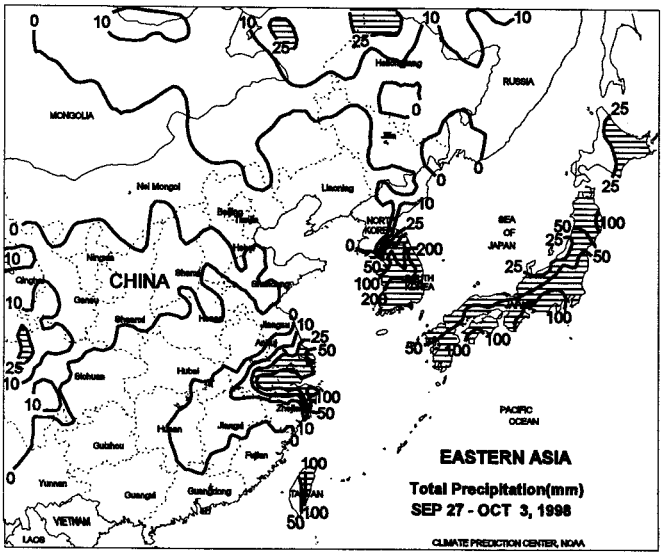
Drier weather (rainfall less than 10 mm) prevailed across most of Thailand and northern Vietnam, favoring rice harvesting. Moderate to heavy showers (50-150 mm) slowed harvesting in south-central Thailand (near Bangkok), southern Vietnam, and most of the Philippines. Extremely heavy rain (250-450 mm) again caused flooding and local rice damage in north-central Vietnam, outside of the main rice-producing areas. Drier weather prevailed across the oil palm areas of peninsular Malaysia. Mostly dry weather (less than 10 mm) favored second-crop rice and corn harvesting across eastern Java, while heavier showers (15-50 mm, with isolated amounts greater than 75 mm) were reported in the west. Main-season rice planting typically occurs from mid-October through January.




## SOUTH ASIA

Rainfall was generally scattered and light over Pakistan and northwestern India as a seasonably drier weather pattern developed over the region. This was good news for the region's cotton, rice, and oilseed producers, as the lingering late-season showers had been threatening crop quality and causing some localized damage. Moderate to heavy rain (25-100 mm or more) continued throughout the southern interior, maintaining abundant to excessive moisture levels for immature summer grains, oilseeds, and cotton. Autumn (rabi) plantings are likely experiencing some delays from excessive wetness. In the east, heavy showers (100 mm or greater) redeveloped over rice areas of east-central India (Bihar), causing some additional flooding. Rains were light to moderate (10-25 mm or more) in rice areas of Bangladesh and far eastern India, allowing floodwaters to recede, albeit slowly.




## EASTERN ASIA

Mostly dry, warm weather favored corn, soybean, and single-crop rice harvesting across most of China. The dry weather also aided winter wheat planting across the North China Plain, but topsoils are becoming too dry. Freezing temperatures remained confined to northern Manchuria (northern Heilongjiang). Light to moderate rain (15-60 mm) fell across the lower Yangtze Valley (Shanghai, Zhejiang, and southern Jiangsu). Temperatures averaged 2 to 6 degrees C above normal across central and southern China. Tropical Storm Yanni hit southern South Korea on September 30, with sustained winds of 60 to 70 mph, producing widespread excessive rain across the country (125-300 mm or more). This moisture caused flooding, damaged maturing rice, and reduced rice quality. Dry weather favored summer crop harvesting in North Korea. Moderate rain (25-75 mm) slowed rice harvesting in Japan. Temperatures averaged 2 to 4 degrees C above normal across the Korean Peninsula and Japan.

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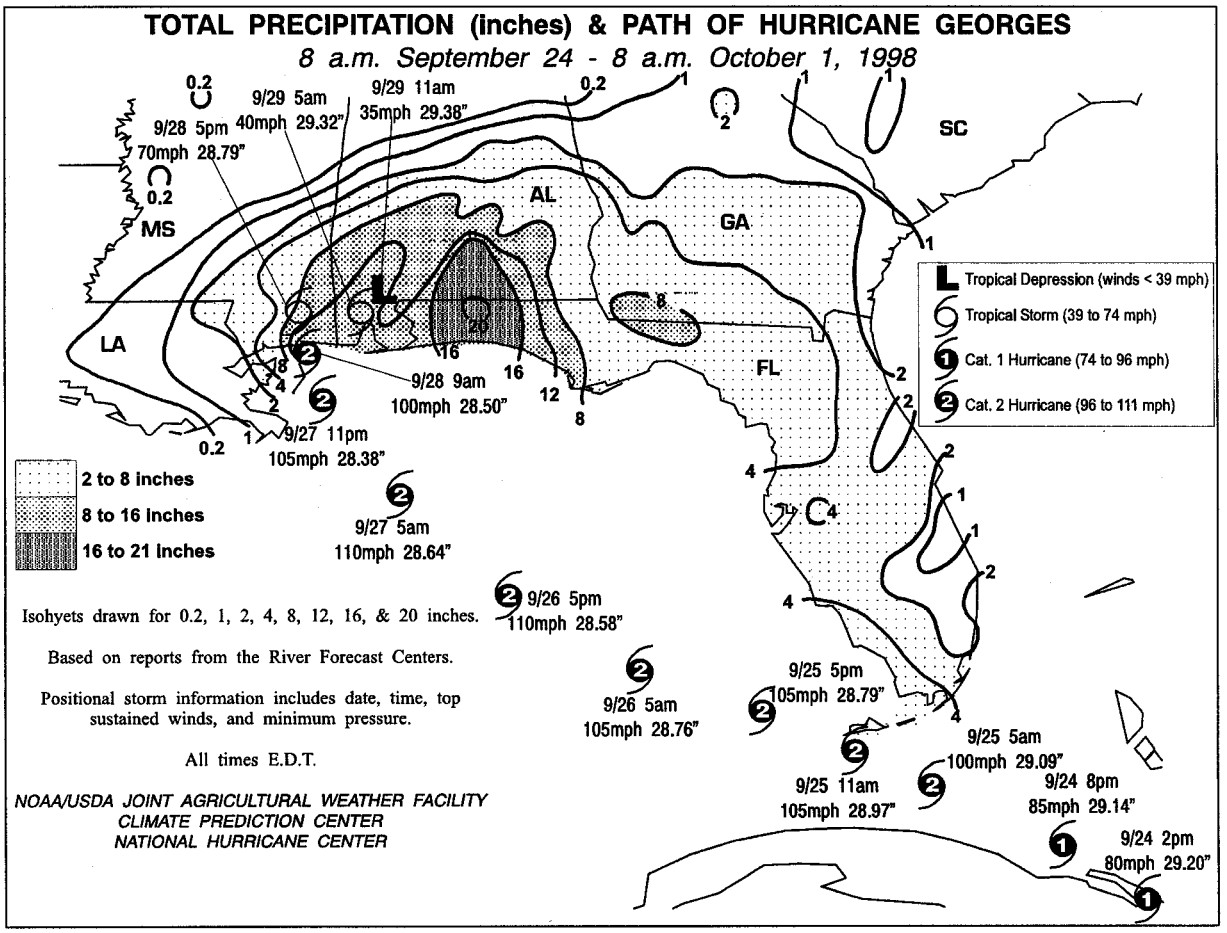


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