

WEEKLY WEATHER AND CROP BULLETIN

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

U.S. DEPARTMENT OF AGRICULTURE
Statistical Reporting Service
and World Agricultural Outlook Board

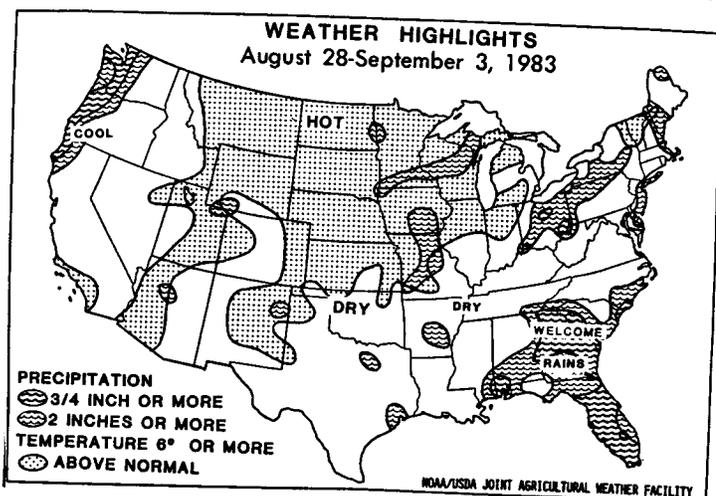
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WASHINGTON, D.C.

Sept. 7, 1983

National Weather Summary

August 28 to September 3



fell in California's central valleys and northward along the coast. Showers and thunderstorms covered Florida and reached into southern Georgia. The western portion of the Corn Belt cooled somewhat, but it was unusually warm from Wyoming northward into Canada.

WEDNESDAY...Light, occasionally moderate showers fell in all of the East Coast States, the upper Ohio Valley, the western slopes of the Appalachians, and were widely scattered across the South to eastern Texas and Oklahoma. Light showers fell from central California northward. Temperatures were unusually warm in the northern Plains. High temperatures reached 100 or more in Montana and southern Canada.

THURSDAY...Showers and thunderstorms covered the southeastern corner of the Nation and were more widespread along the gulf coast into Texas. Light showers spread over all of the Western States, and moderate showers covered the northern Rockies. The unusually hot weather moved eastward to cover the central and northern Plains. High temperatures in Montana and the Dakotas reached or passed the 100 mark.

FRIDAY...For the third consecutive day, recordbreaking heat plagued the Great Plains. High temperatures reached to over 100 from Nebraska to eastern North Dakota. Showers and thunderstorms covered the Southeastern States. The heaviest amount of rain fell along the coast and the southern Appalachians. A few showers fell in the upper Mississippi Valley and the northern Rockies.

SATURDAY...Showers and thunderstorms occurred along and behind a cold front which moved to a line from northern Wisconsin through Nebraska to eastern Colorado. Temperatures behind the front were much

(continued on p. 20)

HIGHLIGHTS: Average temperatures for the week were warmer than normal over nearly all of the Nation. Only the area from northern California through western Washington was cooler than normal. Temperatures in the northern Plains averaged 12-15 warmer than normal. The East Coast States were only 2-3 warmer than normal. Scattered showers provided little help to crops in the western Corn Belt, but heavier showers over the eastern portion and in the Southeast were beneficial.

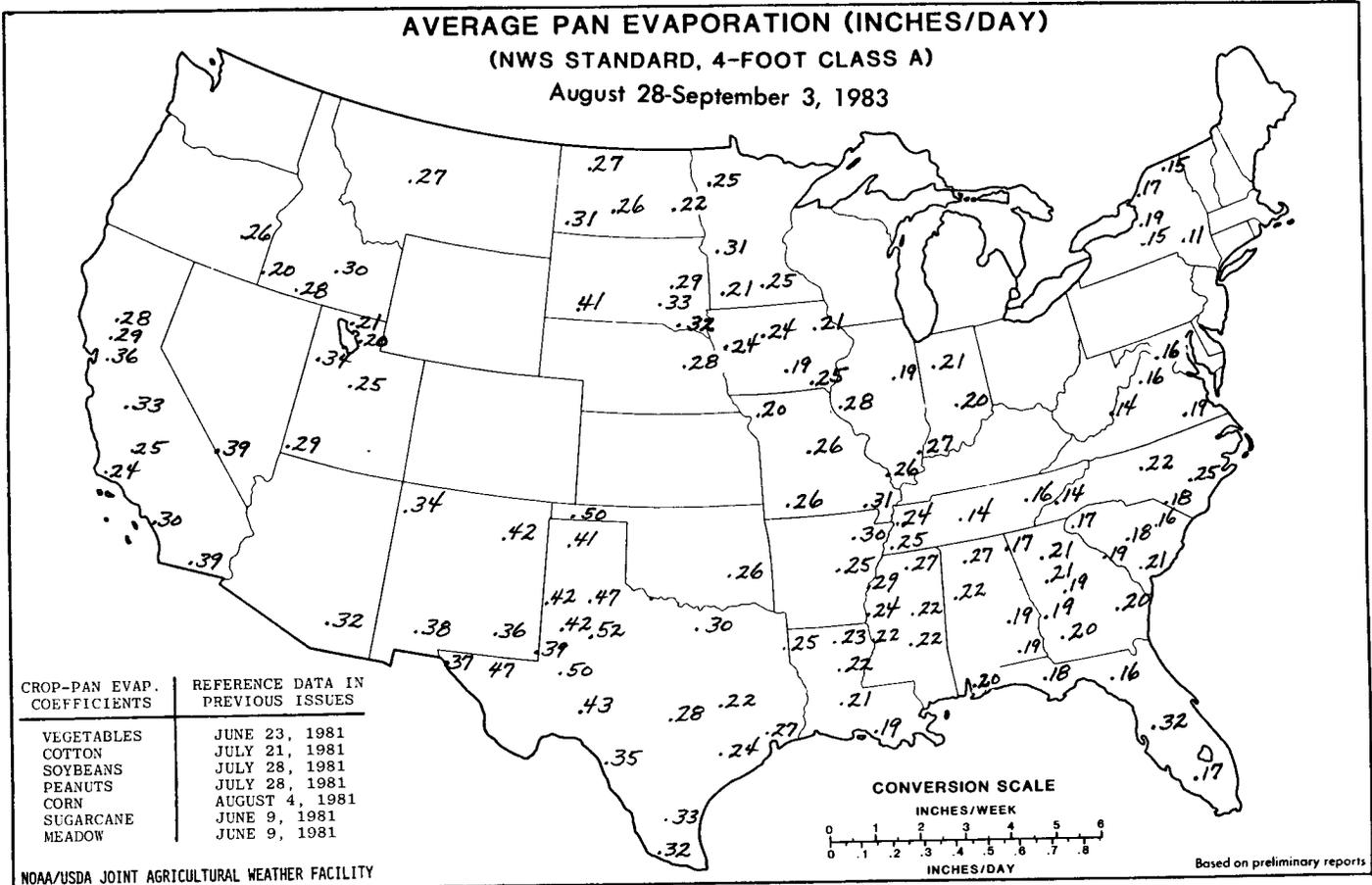
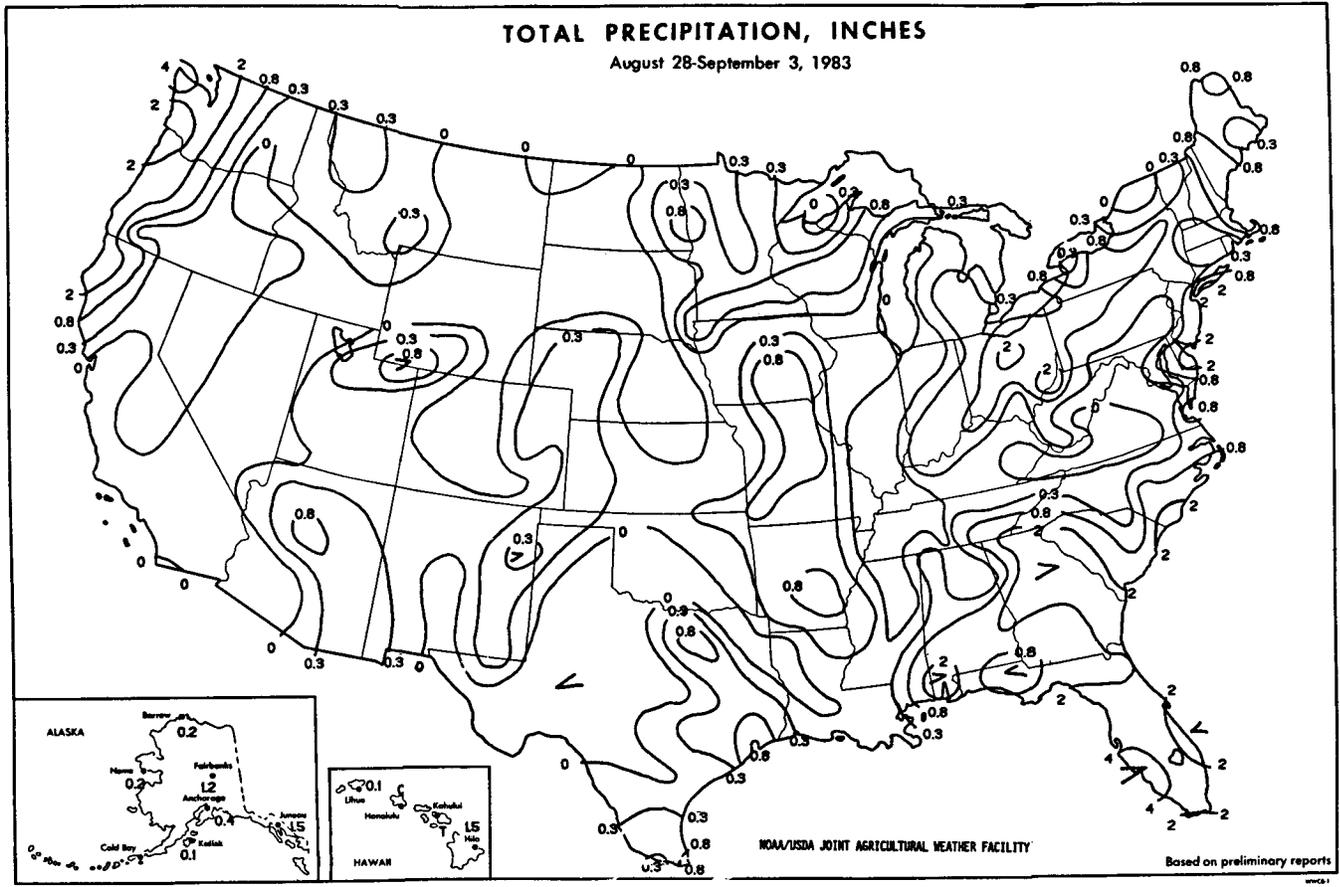
SUNDAY...Hurricane Barry began to diminish when it hit northeastern Mexico at about noon. Light showers spread along the Texas coast and throughout the Southeast. A cold front triggered showers through the upper Ohio Valley and along a line from southern New England to Kentucky and Tennessee, and to southern Kansas. Some moderate showers developed in south-central Virginia and parts of North Carolina and on the border of North Dakota and Minnesota. Very warm weather pushed northward through the Plains. High temperatures reached 100 in the Dakotas.

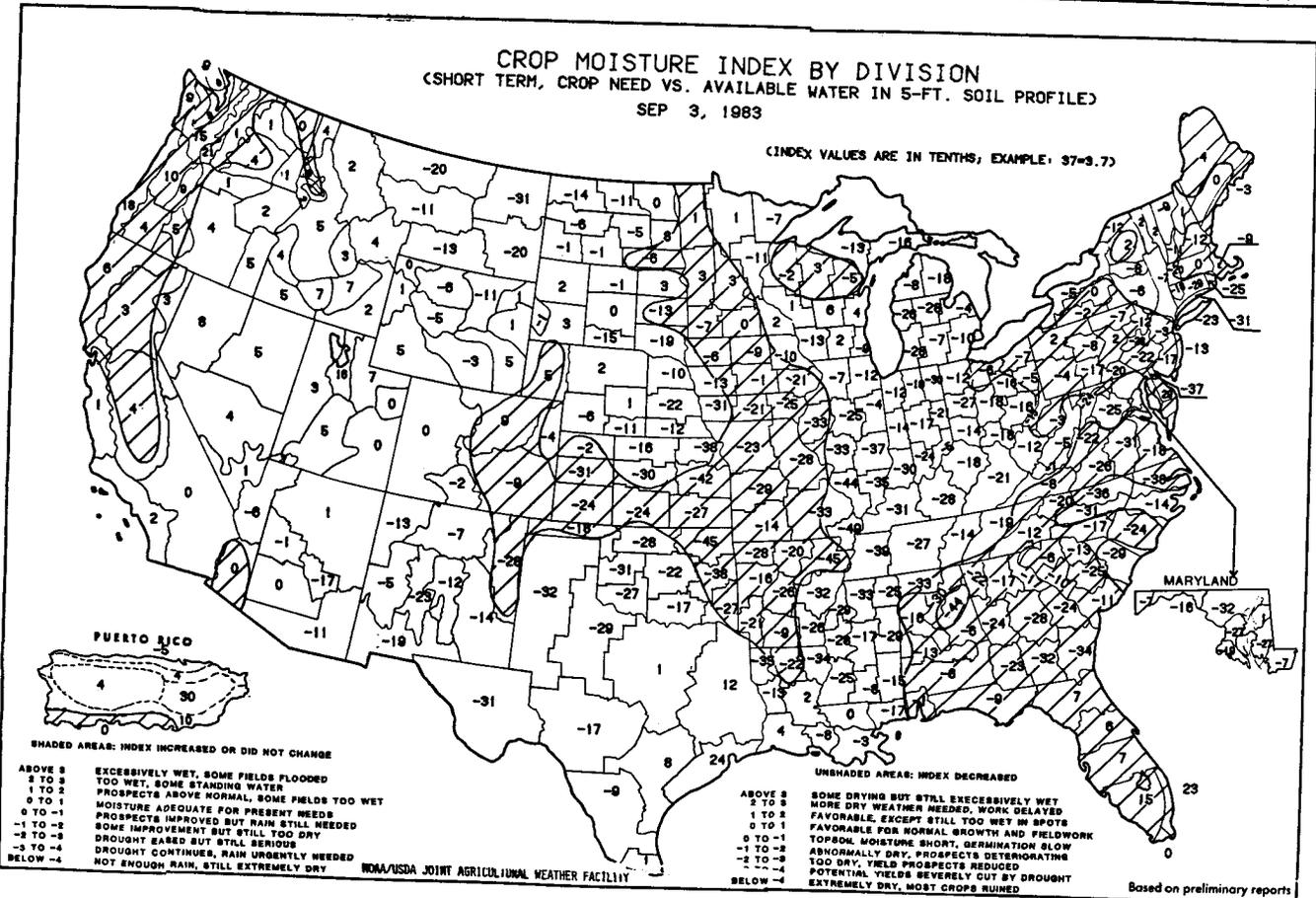
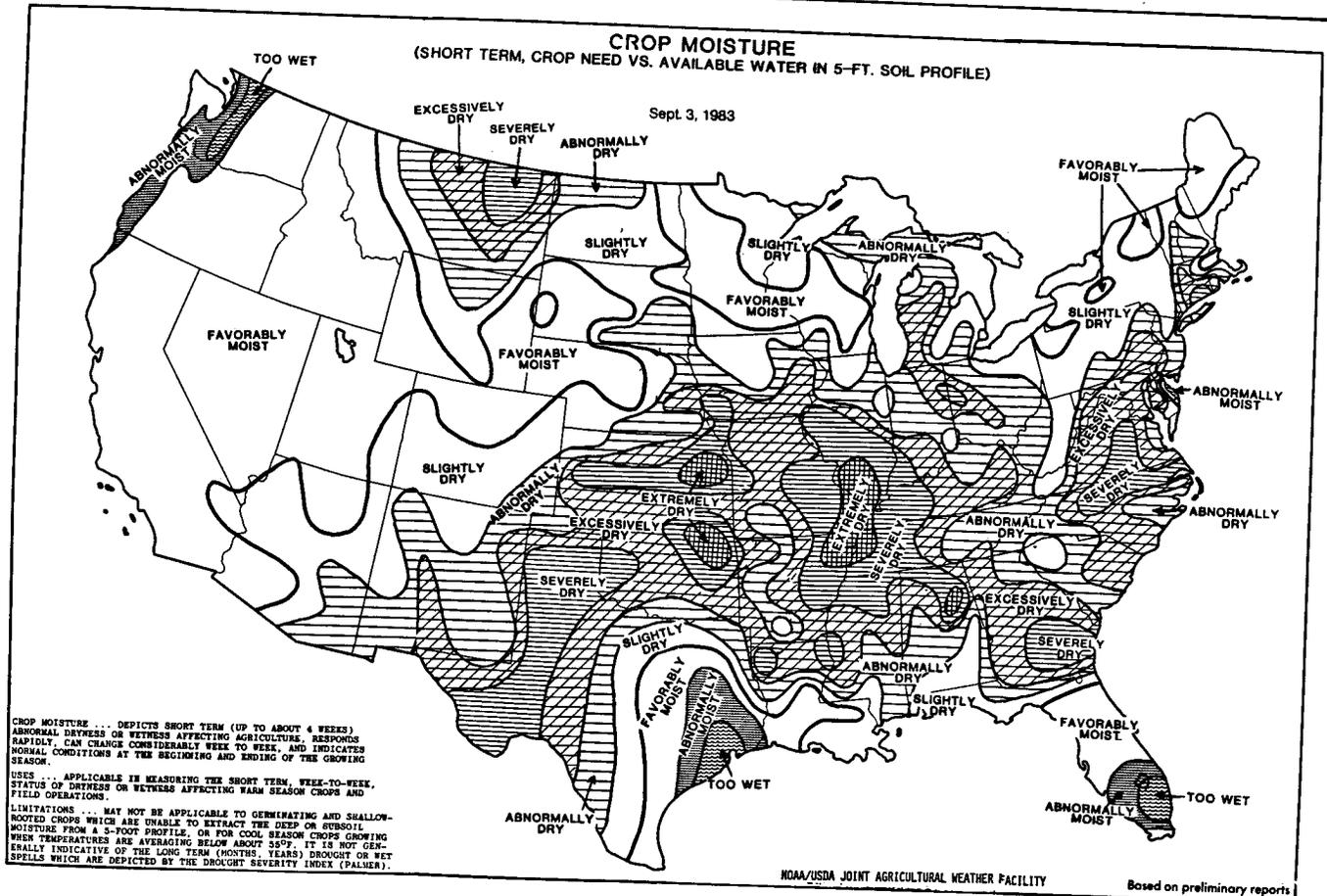
MONDAY...Moderate showers covered the northwest coast from northern California northward. Showers also fell in most of Minnesota, Wisconsin, Iowa, and along a line through northern Kansas into the central Rockies. Some moderate to heavy amounts fell in these areas. Light showers and thunderstorms covered western Arkansas, and heavier showers fell along the east-central gulf coast. Showers were light from western New England to the mid-Atlantic coast.

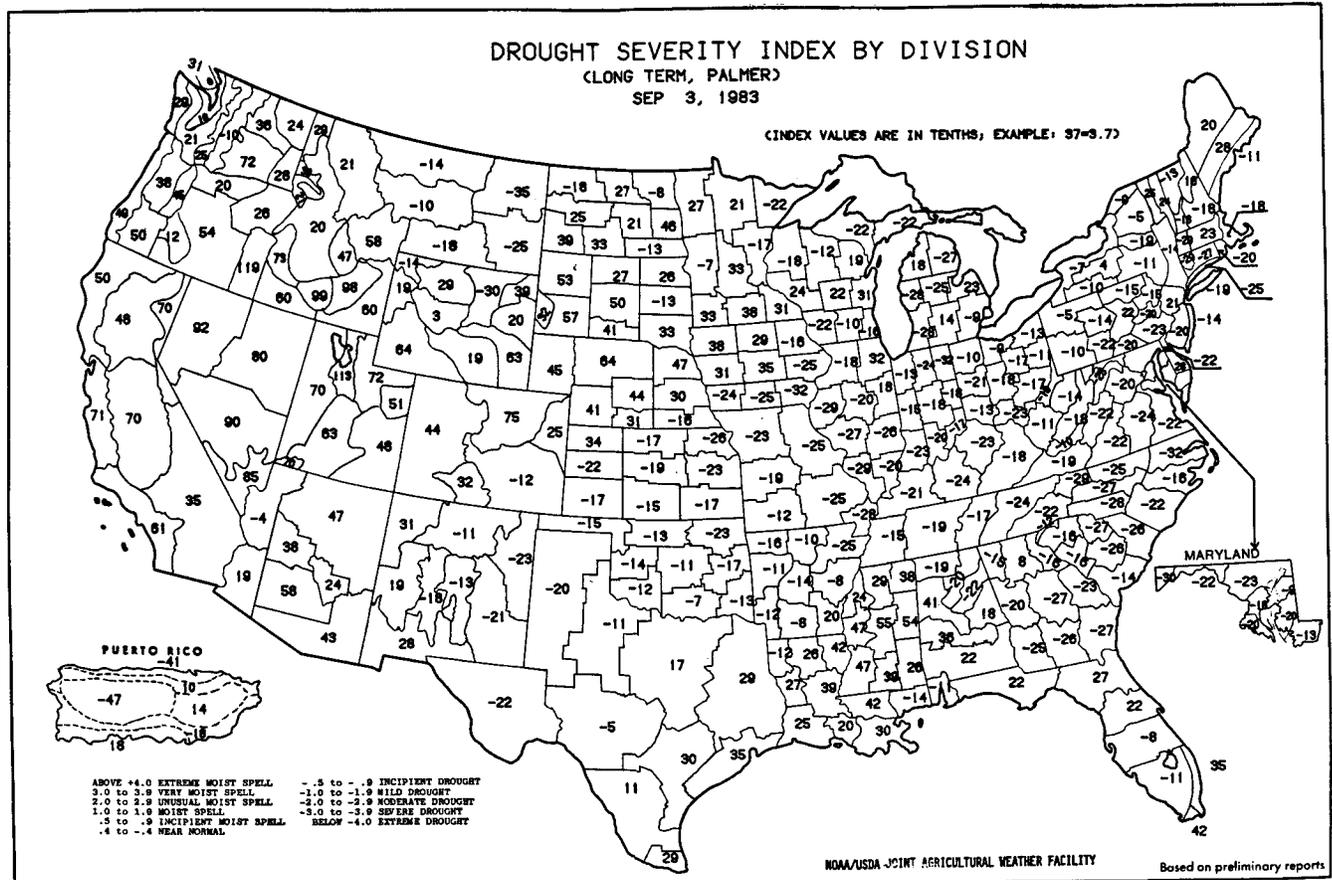
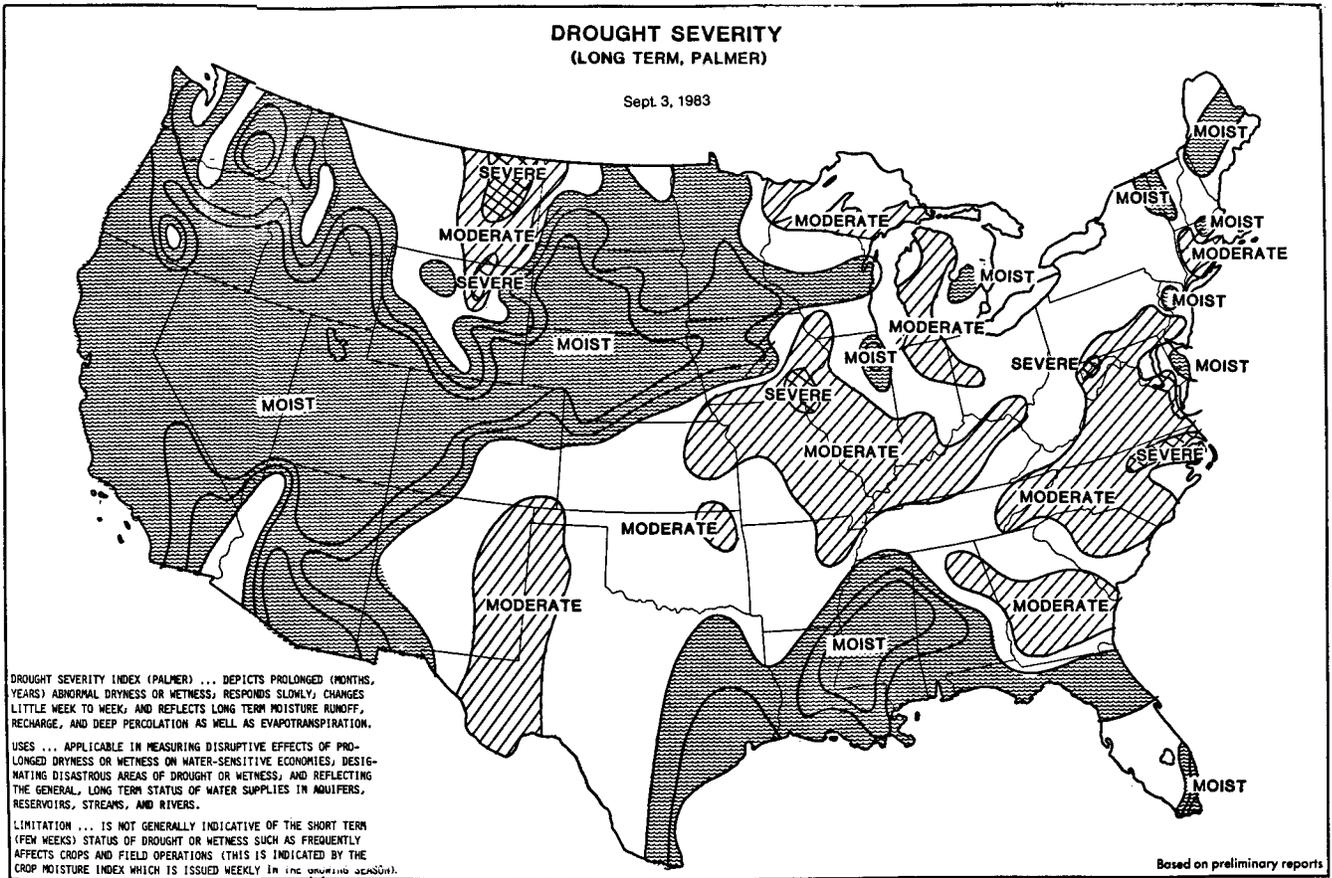
TUESDAY...Light to moderate showers covered the Great Lakes region, from Pennsylvania northward, and from Missouri to eastern Colorado. Light showers

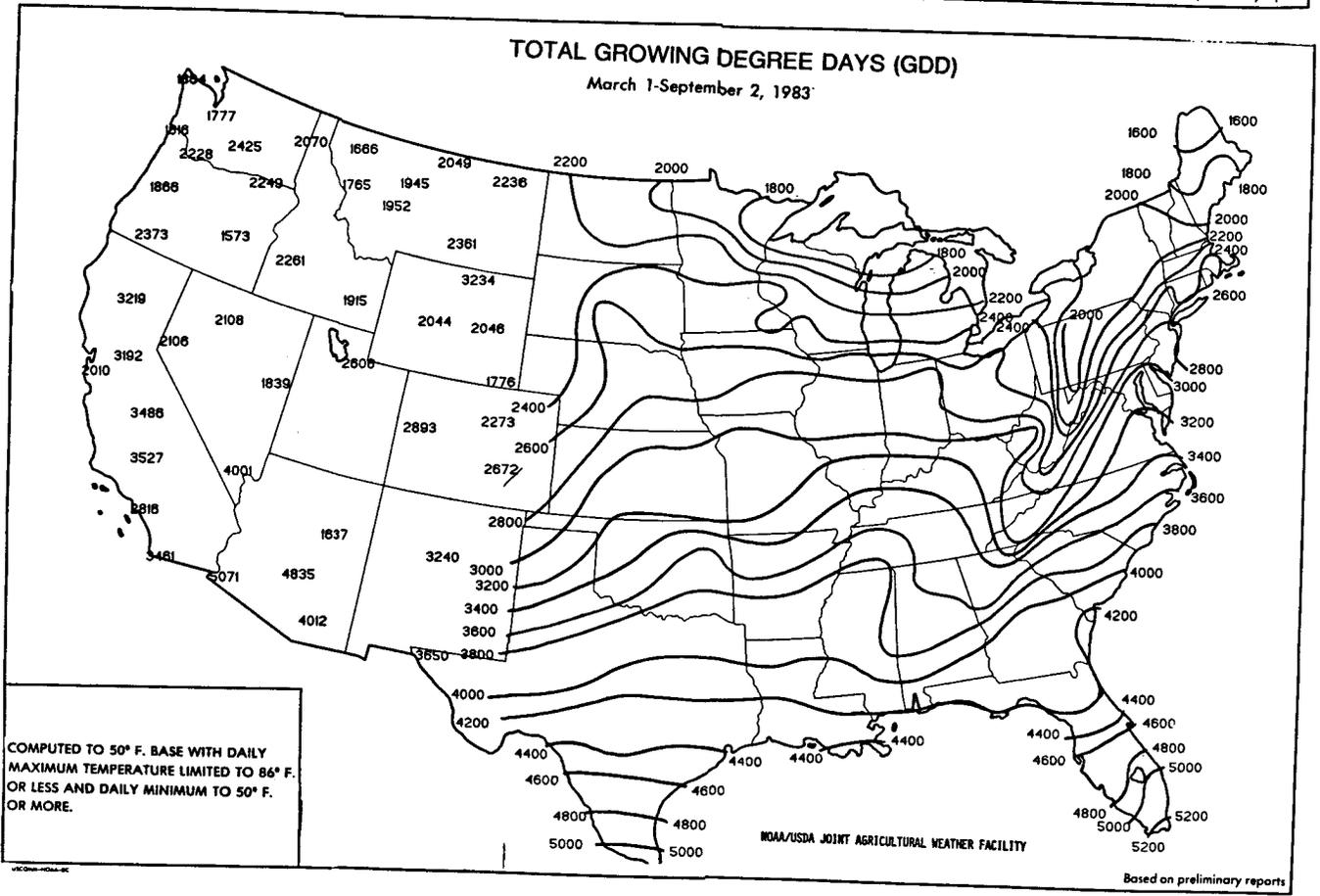
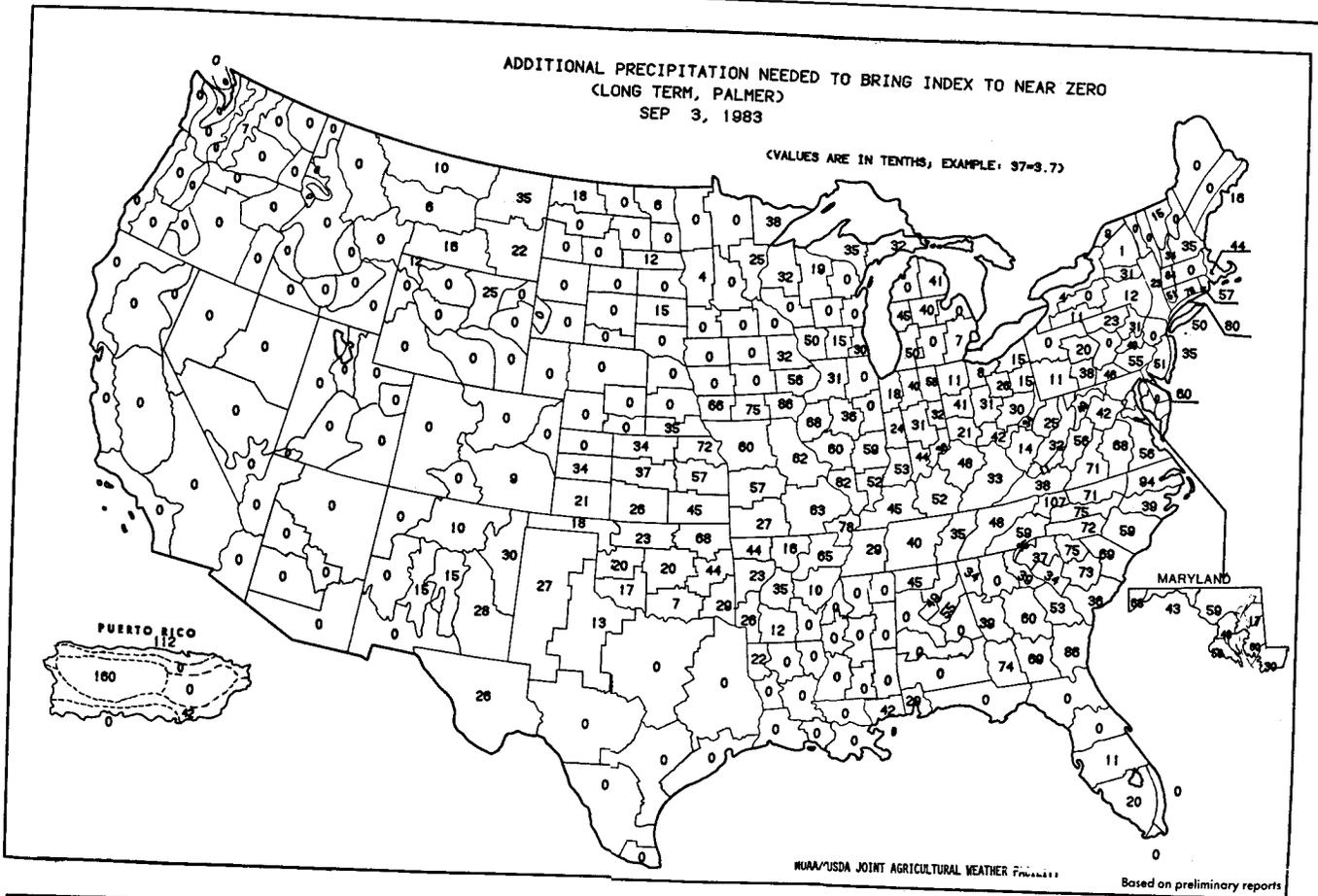
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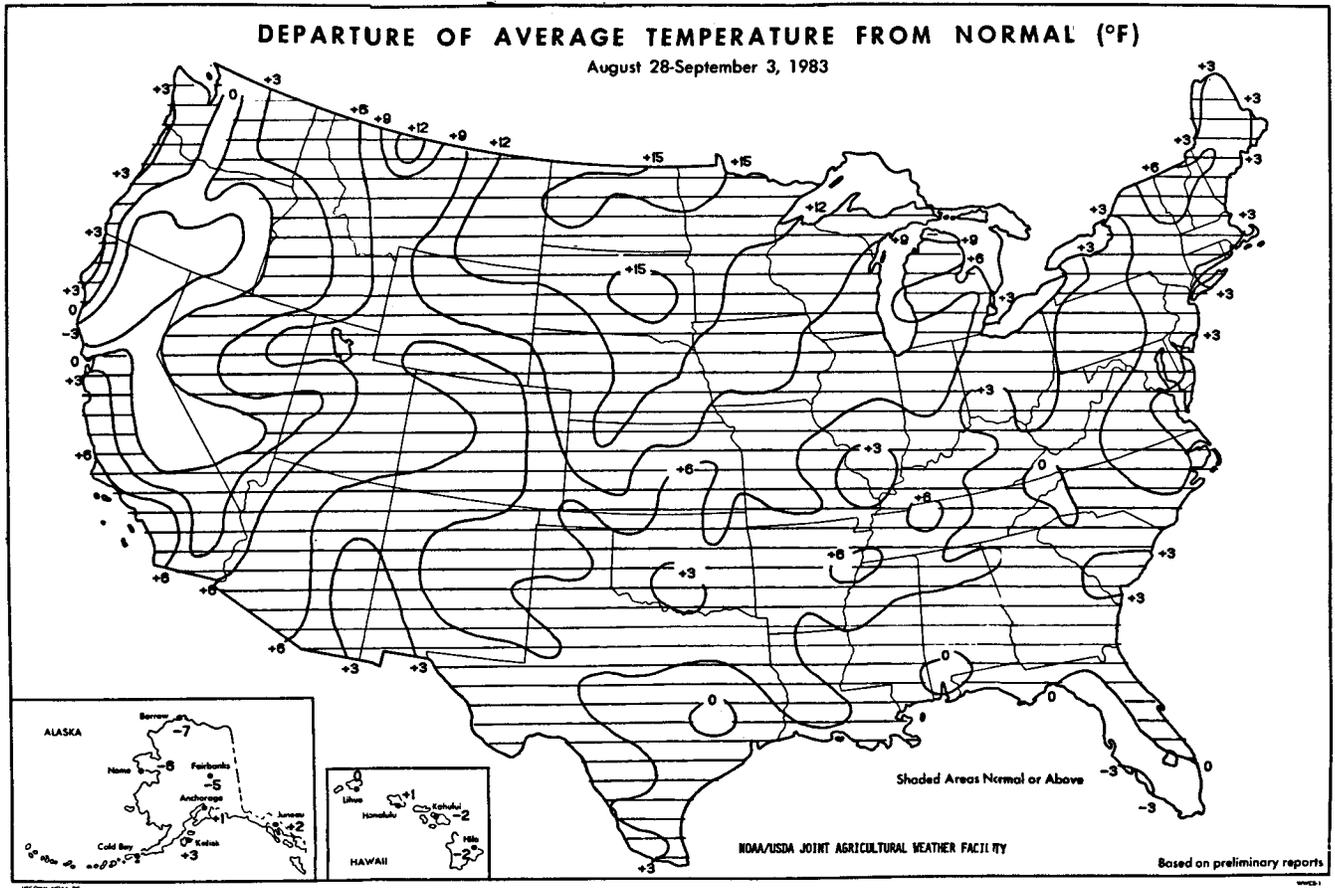
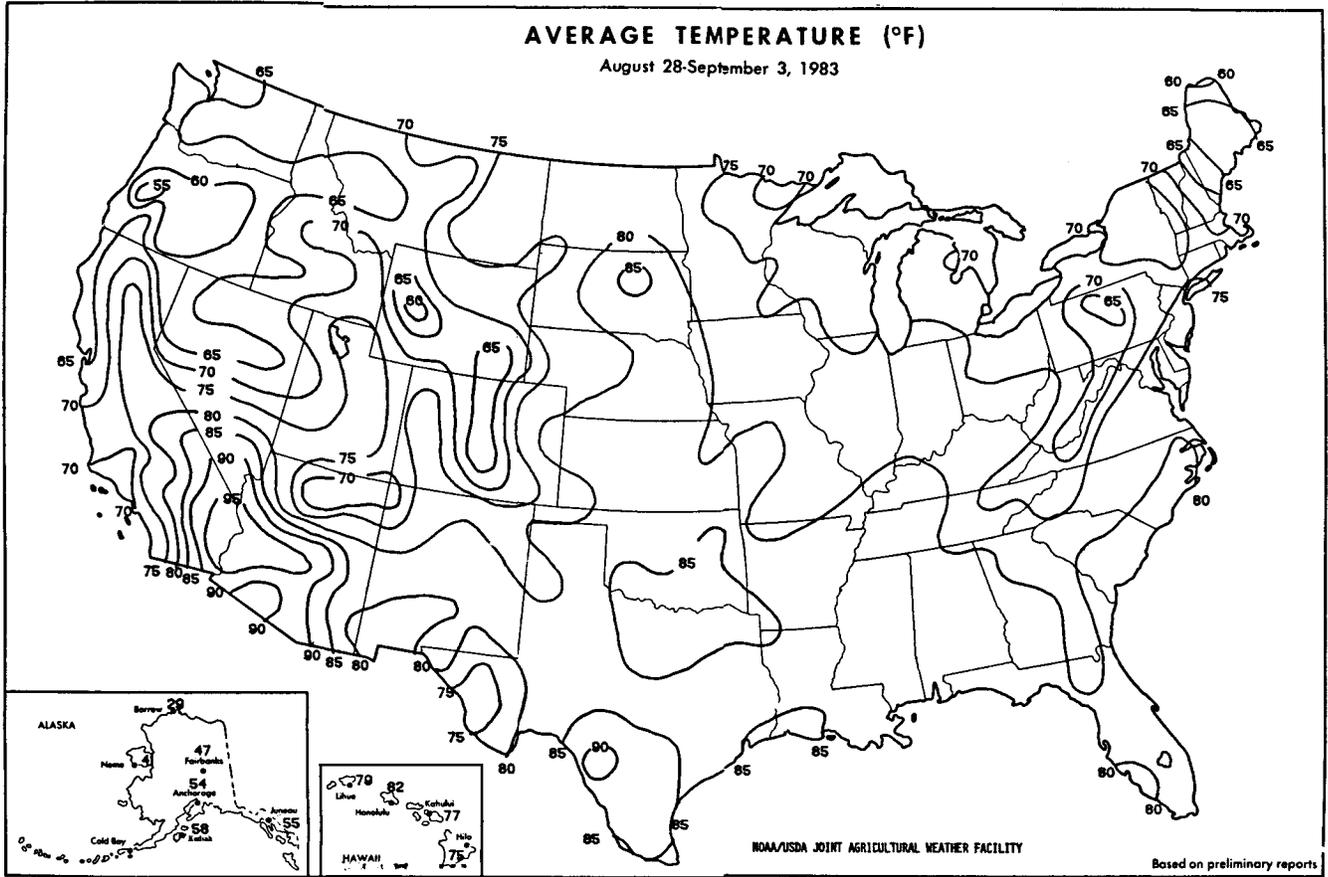
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Weather Data for the Week Ending Sept. 3, 1983

| STATES AND STATIONS | TEMPERATURE °F | | | | | | PRECIPITATION | | | | | | | | RELATIVE HUMIDITY PERCENT | | NUMBER OF DAYS | | | |
|---------------------------|--------------------|--------------------|-----------------|----------------|---------|--------------------------|----------------------|--------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|--------------------|---------------------------|--------------|----------------|---------------------|---------------------|--|
| | AVERAGE MAXIMUM | AVERAGE MINIMUM | EXTREME HIGH | EXTREME LOW | AVERAGE | DEPARTURE FROM NORMAL | WEEKLY TOTAL, IN. | DEPARTURE FROM NORMAL | GREATEST IN 24-HOUR, IN. | TOTAL, IN., SINCE AUG 28 | PCT. NORMAL SINCE AUG 28 | TOTAL, IN., SINCE JAN. 1 | PCT. NORMAL SINCE JAN. 1 | AVERAGE MAXIMUM | AVERAGE MINIMUM | TEMPERATURE | | PRECIPITATION | | |
| | | | | | | | | | | | | | | | | 90 AND ABOVE | 32 AND BELOW | .01 INCH OR MORE | .50 INCH OR MORE | |
| AL BIRMINGHAM | 91 | 71 | 96 | 69 | 81 | 3 | .1 | -.9 | .1 | .1 | 10 | 45.1 | 111 | 90 | 45 | 4 | 0 | 2 | 0 | |
| MOBILE | 90 | 70 | 94 | 67 | 80 | -1 | 2.4 | -.8 | .1 | 2.4 | 150 | 61.2 | 91 | 52 | 4 | 0 | 1 | 1 | | |
| AK MONTGOMERY | 91 | 72 | 98 | 69 | 82 | -2 | 1.0 | 0 | .8 | 1.0 | 100 | 52.5 | 87 | 50 | 4 | 0 | 4 | 1 | | |
| ANCHORAGE | 61 | 47 | 68 | 41 | 54 | -1 | .4 | -.1 | .2 | .4 | 80 | 8.2 | 91 | 83 | 54 | 0 | 0 | 3 | | |
| BARROW | 33 | 25 | 34 | 20 | 29 | -6 | 1.2 | 0 | .1 | .2 | 100 | 2.2 | 56 | 97 | 77 | 0 | 0 | 7 | | |
| FATRBANKS | 55 | 39 | 65 | 29 | 47 | -5 | 1.2 | 0 | .7 | 1.2 | 400 | 7.5 | 99 | 65 | 63 | 0 | 0 | 5 | | |
| JUNEAU | 60 | 49 | 70 | 46 | 55 | 2 | 1.5 | .2 | .9 | 1.5 | 115 | 34.1 | 109 | 100 | 80 | 0 | 0 | 2 | | |
| KODIAK | 64 | 50 | 70 | 46 | 57 | 3 | -.1 | -1.3 | .7 | 1.1 | 7 | 50.6 | 93 | 62 | 0 | 0 | 4 | | | |
| LAKE CHARLES | 48 | 34 | 53 | 25 | 41 | -6 | -.2 | -.5 | .2 | .2 | 29 | 7.4 | 64 | 89 | 59 | 0 | 3 | 3 | | |
| PHOENIX | 108 | 87 | 112 | 85 | 97 | 10 | T | -.2 | T | -.2 | 0 | 8.1 | 167 | 49 | 21 | 7 | 0 | 0 | | |
| PRESCOTT | 88 | 62 | 91 | 58 | 75 | 7 | .8 | .2 | .6 | .8 | 133 | 8.9 | 66 | 83 | 34 | 4 | 0 | 0 | | |
| TUCSON | 102 | 73 | 107 | 70 | 87 | 4 | -.2 | -.2 | .1 | .7 | 50 | 10.5 | 178 | 67 | 71 | 7 | 0 | 2 | | |
| YUMA | 110 | 87 | 113 | 84 | 99 | 8 | 0 | -.1 | .2 | 0 | 0 | 1.9 | 112 | 53 | 23 | 7 | 0 | 1 | | |
| AR FORT SMITH | 94 | 69 | 100 | 61 | 82 | 3 | .4 | -.3 | .4 | .4 | 57 | 21.6 | 74 | 88 | 37 | 6 | 0 | 0 | | |
| LITTLE ROCK | 93 | 72 | 102 | 69 | 83 | 5 | .9 | .1 | .9 | .9 | 113 | 27.6 | 81 | 81 | 47 | 5 | 0 | 1 | | |
| CA BAKERSFIELD | 94 | 66 | 101 | 64 | 80 | 0 | T | 0 | T | 0 | 0 | +100 | 7.9 | 219 | 76 | 33 | 7 | 0 | | |
| EUREKA | 70 | 56 | 73 | 52 | 63 | 6 | 3.2 | 3.1 | 1.6 | 3.2 | 3200 | 40.1 | 173 | 94 | 72 | 0 | 0 | 3 | | |
| FRESNO | 92 | 64 | 97 | 62 | 78 | 1 | .1 | 0 | .1 | .1 | 100 | 16.4 | 241 | 72 | 29 | 5 | 0 | 1 | | |
| LOS ANGELES | 82 | 67 | 85 | 66 | 74 | 4 | 0 | -.1 | 0 | 0 | 0 | 21.8 | 266 | 84 | 50 | 0 | 0 | 0 | | |
| RED BLUFF | 85 | 60 | 97 | 57 | 73 | -5 | .3 | .2 | .3 | .3 | 300 | 30.7 | 234 | 84 | 79 | 2 | 0 | 1 | | |
| SACRAMENTO | 80 | 60 | 96 | 56 | 75 | 1 | 0 | 0 | 0 | 0 | 0 | +100 | 14.6 | 231 | 80 | 26 | 4 | 0 | | |
| SAN DIEGO | 86 | 71 | 90 | 68 | 78 | 6 | T | 0 | T | 0 | 0 | +100 | 23.8 | 235 | 85 | 49 | 1 | 0 | | |
| SAN FRANCISCO | 79 | 59 | 89 | 56 | 69 | 5 | T | 0 | T | 0 | 0 | +100 | 25.4 | 213 | 84 | 46 | 0 | 0 | | |
| DENVER | 89 | 59 | 95 | 56 | 74 | 6 | T | -.3 | T | 0 | 0 | 16.7 | 138 | 71 | 21 | 3 | 0 | 0 | | |
| GRAND JUNCTION | 92 | 66 | 96 | 63 | 79 | 7 | T | -.2 | T | 0 | 0 | 9.6 | 175 | 56 | 20 | 6 | 0 | 1 | | |
| PUEBLO | 93 | 60 | 98 | 58 | 76 | 5 | .2 | -.1 | .2 | .2 | 67 | 11.7 | 123 | 85 | 23 | 6 | 0 | 2 | | |
| CT BRIDGEPORT | 79 | 65 | 86 | 60 | 72 | 2 | -.1 | -.7 | .2 | .2 | 13 | 38.8 | 140 | 98 | 65 | 0 | 0 | 2 | | |
| HARTFORD | 83 | 61 | 90 | 51 | 72 | 4 | -.2 | -.7 | .2 | .2 | 22 | 36.1 | 121 | 85 | 49 | 1 | 0 | 4 | | |
| DC WASHINGTON | 86 | 72 | 91 | 67 | 79 | 4 | -.9 | 0 | .9 | .9 | 100 | 33.4 | 119 | 85 | 52 | 2 | 0 | 1 | | |
| FL APALACHICOLA | 91 | 73 | 94 | 71 | 82 | 1 | 1.8 | -.2 | 1.3 | 1.8 | 90 | 45.8 | 116 | 97 | 60 | 5 | 0 | 4 | | |
| DAYTONA BEACH | 90 | 73 | 93 | 71 | 82 | 1 | 4.1 | 1.3 | 2.3 | 4.1 | 256 | 45.2 | 132 | 92 | 62 | 5 | 0 | 5 | | |
| JACKSONVILLE | 90 | 73 | 95 | 72 | 82 | 1 | 2.3 | .6 | 1.4 | 2.3 | 135 | 46.3 | 116 | 94 | 59 | 4 | 0 | 4 | | |
| KEY WEST | 88 | 77 | 89 | 74 | 83 | -1 | 1.4 | 0 | .9 | 1.4 | 100 | 45.5 | 180 | 82 | 63 | 0 | 0 | 3 | | |
| MIAMI | 91 | 74 | 93 | 71 | 82 | 0 | 3.0 | 1.2 | 1.8 | 3.0 | 167 | 44.5 | 110 | 98 | 56 | 5 | 0 | 6 | | |
| ORLANDO | 91 | 75 | 95 | 74 | 83 | 0 | 2.5 | 1.2 | 1.2 | 2.5 | 192 | 41.4 | 109 | 94 | 55 | 6 | 0 | 4 | | |
| TALLAHASSEE | 92 | 72 | 98 | 70 | 82 | 1 | 1.5 | -.1 | 1.0 | 1.5 | 94 | 50.1 | 107 | 96 | 58 | 4 | 0 | 3 | | |
| TAMPA | 88 | 74 | 91 | 71 | 81 | -1 | 3.5 | 1.8 | 1.5 | 3.5 | 206 | 49.8 | 136 | 100 | 68 | 2 | 0 | 4 | | |
| WEST PALM BEACH | 90 | 76 | 93 | 75 | 83 | 1 | -.9 | -.8 | .9 | .9 | 53 | 56.0 | 141 | 85 | 60 | 5 | 0 | 3 | | |
| GA ATLANTA | 86 | 70 | 95 | 67 | 78 | 1 | 2.9 | 2.2 | 2.1 | 2.9 | 414 | 28.4 | 81 | 88 | 59 | 4 | 0 | 4 | | |
| AUGUSTA | 90 | 72 | 99 | 70 | 81 | 3 | 2.2 | 1.3 | 1.3 | 2.2 | 244 | 40.4 | 174 | 89 | 53 | 4 | 0 | 4 | | |
| MACON | 91 | 73 | 101 | 71 | 82 | 2 | 1.0 | -.2 | .5 | 1.0 | 125 | 36.7 | 108 | 92 | 55 | 4 | 0 | 4 | | |
| SAVANNAH | 90 | 74 | 98 | 73 | 82 | 3 | .3 | -1.1 | .3 | .3 | 21 | 42.9 | 107 | 94 | 56 | 4 | 0 | 1 | | |
| HI HILO | 81 | 68 | 82 | 65 | 75 | -1 | 1.5 | -.4 | .6 | 1.5 | 79 | 45.0 | 52 | 88 | 66 | 0 | 0 | 5 | | |
| HONOLULU | 90 | 74 | 91 | 70 | 82 | 1 | T | -.1 | T | 0 | 0 | 2.2 | 15 | 79 | 43 | 4 | 0 | 1 | | |
| KAHULUI | 86 | 68 | 90 | 62 | 77 | -2 | T | -.1 | T | 0 | 0 | 4.0 | 33 | 82 | 54 | 1 | 0 | 0 | | |
| LIIHUE | 84 | 74 | 85 | 72 | 79 | 0 | .1 | -.4 | .1 | .1 | 20 | 10.1 | 37 | 75 | 57 | 0 | 0 | 1 | | |
| ID BOISE | 86 | 54 | 95 | 43 | 70 | 2 | .1 | 0 | .1 | .1 | 100 | 11.8 | 149 | 73 | 21 | 4 | 0 | 2 | | |
| LEWISTON | 86 | 57 | 94 | 51 | 72 | 3 | .1 | -.1 | .1 | .1 | 50 | 9.9 | 116 | 76 | 25 | 3 | 0 | 1 | | |
| POCATELLO | 87 | 53 | 94 | 50 | 70 | 5 | T | -.1 | T | 0 | 0 | 12.4 | 163 | 70 | 21 | 3 | 0 | 1 | | |
| IL CHICAGO | 88 | 63 | 94 | 58 | 76 | 6 | .1 | -.7 | .1 | .1 | 13 | 30.6 | 122 | 95 | 44 | 3 | 0 | 1 | | |
| MOLINE | 90 | 63 | 95 | 58 | 77 | 7 | .2 | -.6 | .2 | .2 | 25 | 21.4 | 77 | 93 | 41 | 4 | 0 | 1 | | |
| PEORIA | 90 | 66 | 94 | 62 | 78 | 7 | .1 | -.7 | .1 | .1 | 13 | 26.3 | 99 | 89 | 42 | 4 | 0 | 1 | | |
| QUINCY | 89 | 65 | 96 | 60 | 77 | 6 | .4 | -.6 | .4 | .4 | 40 | 17.9 | 64 | 88 | 40 | 3 | 0 | 1 | | |
| ROCKFORD | 86 | 64 | 90 | 58 | 75 | 7 | .1 | -.8 | .1 | .1 | 11 | 23.6 | 84 | 97 | 47 | 1 | 0 | 1 | | |
| SPRINGFIELD | 90 | 65 | 95 | 61 | 78 | 6 | T | -.7 | T | 0 | 0 | 19.6 | 78 | 93 | 41 | 3 | 0 | 0 | | |
| IN EVANSVILLE | 92 | 66 | 95 | 60 | 79 | 5 | .4 | -.2 | .4 | .4 | 67 | 33.6 | 108 | 89 | 41 | 6 | 0 | 1 | | |
| FORT WAYNE | 90 | 64 | 95 | 58 | 77 | 8 | T | -.7 | T | 0 | 0 | 18.8 | 72 | 73 | 27 | 4 | 0 | 1 | | |
| INDIANAPOLIS | 90 | 66 | 93 | 60 | 78 | 7 | .6 | -.1 | .6 | .6 | 86 | 23.8 | 82 | 89 | 41 | 5 | 0 | 1 | | |
| SOUTH BEND | 88 | 66 | 92 | 60 | 77 | 9 | 0 | -.8 | 0 | 0 | 0 | 20.5 | 76 | 89 | 39 | 3 | 0 | 0 | | |
| IA DES MOINES | 92 | 68 | 99 | 65 | 80 | 10 | 1.8 | .9 | 1.8 | 1.8 | 700 | 25.0 | 102 | 82 | 40 | 4 | 0 | 1 | | |
| SIOUX CITY | 91 | 67 | 94 | 64 | 79 | 9 | .1 | -.5 | .1 | .1 | 17 | 20.4 | 100 | 87 | 47 | 5 | 0 | 1 | | |
| WATERLOO | 88 | 63 | 93 | 58 | 76 | 9 | .5 | -.4 | .5 | .5 | 56 | 25.2 | 97 | 97 | 51 | 4 | 0 | 1 | | |
| KS CONCORDIA | 94 | 69 | 98 | 62 | 82 | 8 | T | -.8 | T | 0 | 0 | 17.7 | 82 | 78 | 34 | 7 | 0 | 1 | | |
| DODGE CITY | 96 | 72 | 101 | 69 | 84 | 9 | .1 | -.4 | .1 | .1 | 20 | 18.9 | 117 | 72 | 31 | 6 | 0 | 3 | | |
| GOODLAND | 94 | 67 | 98 | 64 | 81 | 11 | .6 | -.2 | .5 | .6 | 150 | 15.9 | 117 | 73 | 28 | 6 | 0 | 4 | | |
| TOPPRA | 94 | 66 | 100 | 59 | 80 | 6 | .3 | -.6 | .3 | .3 | 33 | 24.7 | 97 | 80 | 38 | 6 | 0 | 1 | | |
| WICHITA | 94 | 68 | 102 | 60 | 81 | 5 | .1 | -.7 | .1 | .1 | 13 | 27.8 | 131 | 81 | 35 | 6 | 0 | 2 | | |
| KY BOWLING GREEN | 89 | 67 | 93 | 63 | 78 | 3 | .2 | -.6 | .2 | .2 | 25 | 37.1 | 100 | 96 | 47 | 3 | 0 | 1 | | |
| LXINGTON | 90 | 69 | 91 | 65 | 78 | 5 | .1 | -.7 | .1 | .1 | 13 | 26.6 | 76 | 88 | 40 | 3 | 0 | 1 | | |
| LOUISVILLE | 90 | 69 | 93 | 65 | 79 | 5 | .4 | -.4 | .4 | .4 | 50 | 31.5 | 96 | 86 | 44 | 4 | 0 | 1 | | |
| LA ALEXANDRIA | 94 | 74 | 98 | 70 | 84 | 3 | .1 | -.4 | .1 | .1 | 20 | 37.7 | 97 | 94 | 48 | 7 | 0 | 1 | | |
| BATON ROUGE | 93 | 74 | 95 | 71 | 83 | 3 | .1 | -.4 | .1 | .1 | 9 | 57.8 | 140 | 92 | 48 | 7 | 0 | 1 | | |
| LAKE CHARLES | 94 | 76 | 98 | 72 | 85 | 4 | .1 | -1.0 | .1 | .1 | 8 | 40.5 | 106 | 92 | 50 | 7 | 0 | 2 | | |
| NEW ORLEANS | 92 | 73 | 94 | 71 | 82 | 1 | .2 | -1.2 | .2 | .2 | 14 | 58.7 | 135 | 88 | 50 | 5 | 0 | 1 | | |

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

+100 =

Weather Data for the Week Ending Sept. 3, 1983

| STATES AND STATIONS | TEMPERATURE °F | | | | | | PRECIPITATION | | | | | | RELATIVE HUMIDITY, PERCENT | | NUMBER OF DAYS | | | | |
|---------------------------|--------------------|--------------------|-----------------|----------------|---------|--------------------------|----------------------|--------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|--------------------|--------------------|--------------|--------------|---------------------|---------------------|
| | AVERAGE MAXIMUM | AVERAGE MINIMUM | EXTREME HIGH | EXTREME LOW | AVERAGE | DEPARTURE FROM NORMAL | WEEKLY TOTAL, IN. | DEPARTURE FROM NORMAL | GREATEST IN 24-HOUR, IN. | TOTAL, IN., SINCE AUG 28 | PCT. NORMAL SINCE AUG 28 | TOTAL, IN., SINCE JAN. 1 | PCT. NORMAL SINCE JAN. 1 | AVERAGE MAXIMUM | AVERAGE MINIMUM | TEMPERATURE | | PRECIPITATION | |
| | | | | | | | | | | | | | | | | 90 AND ABOVE | 52 AND BELOW | .01 INCH OR MORE | .50 INCH OR MORE |
| ME SHREVEPORT | 96 | 74 | 98 | 71 | 85 | 4 | T | -.7 | T | 0 | 0 | 34.2 | 109 | 89 | 44 | 7 | 0 | 0 | 0 |
| ME CARIBOU | 70 | 55 | 79 | 46 | 63 | 4 | T | -.8 | 0 | .6 | .8 | 100 | 29.7 | 121 | 98 | 67 | 0 | 0 | 4 |
| ME PORTLAND | 76 | 57 | 85 | 52 | 67 | 3 | T | -.9 | .2 | .8 | .9 | 129 | 39.4 | 143 | 97 | 59 | 0 | 0 | 2 |
| MD BALTIMORE | 85 | 67 | 89 | 62 | 76 | 2 | T | -.1 | -.9 | .1 | .1 | 10 | 35.0 | 117 | 92 | 53 | 0 | 0 | 1 |
| MD SALISBURY | 84 | 67 | 87 | 63 | 76 | 3 | T | 2.5 | 1.4 | 1.4 | 2.5 | 227 | 36.0 | 109 | 100 | 66 | 0 | 0 | 3 |
| MA BOSTON | 79 | 66 | 89 | 64 | 72 | 3 | T | 1.0 | .1 | .5 | 1.0 | 111 | 34.7 | 120 | 95 | 62 | 0 | 0 | 4 |
| MA CHATHAM | 78 | 53 | 94 | 0 | 66 | 0 | T | 1.1 | .2 | .5 | 1.1 | 122 | 40.9 | 132 | 96 | 83 | 1 | 1 | 4 |
| MI ALPENA | 83 | 57 | 90 | 51 | 70 | 9 | T | -.4 | -.4 | .4 | .4 | 50 | 23.3 | 111 | 99 | 50 | 1 | 0 | 1 |
| MI DETROIT | 86 | 59 | 91 | 52 | 73 | 5 | T | -.5 | .1 | .5 | .5 | 83 | 24.4 | 107 | 89 | 40 | 2 | 0 | 1 |
| MI FLINT | 86 | 61 | 90 | 52 | 74 | 8 | T | -.3 | -.4 | .3 | .3 | 43 | 21.3 | 96 | 96 | 44 | 1 | 0 | 1 |
| MI GRAND RAPIDS | 83 | 61 | 88 | 55 | 72 | 5 | T | -.7 | .7 | .1 | .1 | 13 | 24.6 | 102 | 95 | 48 | 0 | 0 | 1 |
| MI HOUGHTON LAKE | 81 | 57 | 85 | 45 | 69 | 7 | T | -.3 | .4 | .3 | .3 | 43 | 18.6 | 95 | 95 | 52 | 0 | 0 | 1 |
| MI LANSING | 83 | 60 | 88 | 52 | 72 | 5 | T | -.5 | .2 | .5 | .5 | 71 | 23.8 | 108 | 95 | 49 | 0 | 0 | 1 |
| MI MARQUETTE | 83 | 57 | 92 | 48 | 70 | 11 | T | -.9 | .1 | .9 | .9 | 113 | 26.8 | 105 | 95 | 48 | 2 | 0 | 1 |
| MI MUSKEGON | 83 | 60 | 85 | 54 | 71 | 5 | T | T | -.7 | T | 0 | 0 | 17.0 | 78 | 98 | 51 | 0 | 0 | 1 |
| MI SAULT STE. MARIE | 85 | 55 | 89 | 48 | 70 | 10 | T | .4 | .5 | .4 | .4 | 44 | 21.6 | 98 | 93 | 47 | 0 | 0 | 2 |
| MN ALEXANDRIA | 87 | 65 | 93 | 62 | 76 | 12 | T | .5 | .3 | .4 | .5 | 63 | 15.7 | 80 | 94 | 51 | 2 | 0 | 2 |
| MN DULUTH | 81 | 62 | 92 | 51 | 71 | 12 | T | -.2 | .7 | .1 | .2 | 22 | 16.9 | 75 | 89 | 56 | 1 | 0 | 3 |
| MN INT'L FALLS | 82 | 58 | 91 | 52 | 70 | 11 | T | -.7 | 0 | .5 | .7 | 100 | 17.7 | 96 | 88 | 57 | 1 | 0 | 3 |
| MN MINNEAPOLIS | 86 | 67 | 92 | 61 | 77 | 10 | T | -.6 | .1 | .6 | .6 | 86 | 28.1 | 137 | 82 | 50 | 2 | 0 | 1 |
| MN ROCHESTER | 84 | 63 | 89 | 57 | 73 | 9 | T | -.8 | .1 | .6 | .8 | 89 | 26.5 | 120 | 95 | 59 | 0 | 0 | 2 |
| MS GREENWOOD | 93 | 71 | 98 | 68 | 82 | 3 | T | -.3 | .3 | .3 | .3 | 50 | 44.6 | 118 | 88 | 45 | 6 | 0 | 1 |
| MS JACKSON | 94 | 70 | 97 | 66 | 82 | 2 | T | T | -.8 | T | 0 | 0 | 54.4 | 142 | 100 | 46 | 7 | 0 | 2 |
| MS MERIDIAN | 93 | 68 | 97 | 63 | 81 | 1 | T | -.8 | 0 | .8 | .8 | 100 | 50.9 | 132 | 100 | 48 | 6 | 0 | 1 |
| MO CAPE GIRARDEAU | 93 | 68 | 97 | 62 | 80 | 6 | T | 0 | .9 | 0 | 0 | 0 | 28.1 | 87 | 93 | 44 | 7 | 0 | 0 |
| MO COLUMBIA | 90 | 69 | 100 | 65 | 79 | 6 | T | 1.3 | .5 | 1.3 | 1.3 | 163 | 25.8 | 100 | 85 | 41 | 4 | 0 | 1 |
| MO KANSAS CITY | 91 | 67 | 97 | 62 | 79 | 6 | T | .2 | .7 | .2 | .2 | 22 | 22.2 | 83 | 93 | 40 | 5 | 0 | 1 |
| MO SAINT LOUIS | 89 | 70 | 94 | 65 | 79 | 5 | T | T | .6 | T | 0 | 0 | 28.6 | 115 | 94 | 41 | 3 | 0 | 2 |
| MO SPRINGFIELD | 93 | 67 | 100 | 60 | 80 | 6 | T | .6 | .3 | .4 | .6 | 67 | 28.1 | 101 | 85 | 36 | 5 | 0 | 1 |
| MT BILLINGS | 94 | 61 | 103 | 53 | 78 | 12 | T | T | .3 | T | 0 | 0 | 7.8 | 70 | 51 | 12 | 5 | 0 | 1 |
| MT GLASGOW | 93 | 62 | 103 | 55 | 77 | 14 | T | T | .3 | T | 0 | 0 | 5.9 | 60 | 59 | 18 | 5 | 0 | 0 |
| MT GREAT FALLS | 86 | 55 | 95 | 50 | 71 | 8 | T | -.2 | .1 | .2 | .2 | 67 | 11.6 | 96 | 63 | 20 | 4 | 0 | 1 |
| MT HAVRE | 90 | 53 | 99 | 46 | 71 | 8 | T | T | .2 | T | 0 | 0 | 10.6 | 110 | 64 | 18 | 4 | 0 | 1 |
| MT HELENA | 83 | 54 | 93 | 49 | 69 | 7 | T | -.1 | .2 | .1 | .1 | 33 | 13.2 | 148 | 73 | 26 | 2 | 0 | 1 |
| MT KALISPELL | 80 | 50 | 91 | 44 | 65 | 5 | T | -.4 | 0 | .4 | .4 | 100 | 13.3 | 114 | 91 | 33 | 2 | 0 | 1 |
| MT MILES CITY | 95 | 63 | 106 | 53 | 79 | 12 | 0 | 0 | .3 | 0 | 0 | 0 | 6.2 | 55 | 53 | 13 | 5 | 0 | 0 |
| MT MISSOULA | 82 | 49 | 91 | 45 | 66 | 4 | T | -.3 | .1 | .2 | .3 | 150 | 12.3 | 135 | 92 | 31 | 3 | 0 | 3 |
| NE GRAND ISLAND | 93 | 68 | 98 | 66 | 81 | 10 | T | -.6 | .6 | T | 0 | 0 | 22.0 | 116 | 80 | 36 | 6 | 0 | 0 |
| NE LINCOLN | 94 | 68 | 97 | 61 | 81 | 10 | T | -.8 | .6 | T | 0 | 0 | 21.2 | 100 | 89 | 38 | 7 | 0 | 0 |
| NE NORFOLK | 93 | 69 | 98 | 62 | 81 | 12 | T | -.6 | .6 | T | 0 | 0 | 22.1 | 111 | 76 | 38 | 6 | 0 | 0 |
| NE NORTH PLATTE | 92 | 65 | 96 | 62 | 78 | 10 | T | -.4 | .4 | T | 0 | 0 | 17.7 | 109 | 83 | 36 | 5 | 0 | 1 |
| NE OMAHA | 91 | 68 | 95 | 64 | 79 | 10 | T | .9 | .9 | T | 0 | 0 | 21.8 | 91 | 83 | 48 | 5 | 0 | 1 |
| NE SCOTTSBLUFF | 94 | 58 | 98 | 53 | 76 | 9 | T | .3 | .1 | .3 | .3 | 150 | 12.9 | 108 | 80 | 21 | 7 | 0 | 2 |
| NE VALENTINE | 96 | 63 | 103 | 57 | 80 | 12 | T | .6 | .2 | .3 | .6 | 150 | 21.6 | 141 | 84 | 30 | 5 | 0 | 3 |
| NV ELY | 82 | 50 | 85 | 46 | 66 | 4 | T | T | .1 | T | 0 | 0 | 11.1 | 176 | 74 | 25 | 0 | 0 | 1 |
| NV LAS VEGAS | 101 | 70 | 103 | 74 | 88 | 3 | T | .1 | .1 | T | 0 | 0 | 3.8 | 119 | 39 | 16 | 7 | 0 | 1 |
| NV RENO | 85 | 45 | 87 | 42 | 65 | 1 | T | -.2 | .1 | .2 | .2 | 200 | 7.7 | 160 | 79 | 20 | 0 | 0 | 2 |
| NV WINNEMUCCA | 86 | 46 | 92 | 37 | 66 | 1 | T | .1 | 0 | .1 | .1 | 100 | 8.0 | 140 | 72 | 17 | 2 | 0 | 1 |
| NH CONCORD | 81 | 57 | 88 | 50 | 69 | 5 | T | -.7 | .1 | .5 | .7 | 88 | 31.1 | 127 | 96 | 48 | 0 | 0 | 2 |
| NJ ATLANTIC CITY | 83 | 66 | 88 | 60 | 74 | 4 | T | 1.3 | .4 | 1.2 | 1.3 | 144 | 30.2 | 99 | 95 | 63 | 0 | 0 | 3 |
| NM ALBUQUERQUE | 95 | 68 | 99 | 64 | 82 | 8 | T | -.3 | .3 | T | 0 | 0 | 5.0 | 83 | 60 | 22 | 7 | 0 | 0 |
| NM CLOVIS | 93 | 65 | 97 | 61 | 79 | 5 | T | -.5 | .7 | T | 0 | 0 | 7.3 | 54 | 63 | 28 | 7 | 0 | 0 |
| NM ROSWELL | 95 | 70 | 98 | 68 | 83 | 6 | T | -.2 | .3 | .2 | .2 | 40 | 5.0 | 68 | 49 | 26 | 7 | 0 | 1 |
| NY ALBANY | 81 | 57 | 86 | 49 | 69 | 3 | T | -.2 | .6 | .1 | .2 | 25 | 32.0 | 133 | 100 | 60 | 0 | 0 | 2 |
| NY BINGHAMTON | 82 | 60 | 87 | 53 | 71 | 7 | T | .8 | .1 | .6 | .8 | 114 | 29.2 | 115 | 87 | 41 | 0 | 0 | 2 |
| NY BUFFALO | 81 | 61 | 85 | 54 | 71 | 4 | T | .3 | .6 | .3 | .3 | 33 | 20.9 | 81 | 88 | 44 | 0 | 0 | 1 |
| NY NEW YORK | 84 | 68 | 90 | 65 | 76 | 3 | T | .5 | .4 | .5 | .5 | 56 | 38.6 | 130 | 93 | 56 | 1 | 0 | 1 |
| NY ROCHESTER | 79 | 60 | 84 | 55 | 69 | 3 | T | 1.1 | .4 | .9 | 1.1 | 157 | 21.4 | 96 | 99 | 56 | 0 | 0 | 3 |
| NY SYRACUSE | 80 | 56 | 85 | 48 | 68 | 2 | T | .4 | .4 | .4 | .4 | 50 | 21.9 | 81 | 99 | 51 | 0 | 0 | 2 |
| NC ASHEVILLE | 83 | 63 | 90 | 60 | 73 | 3 | T | .9 | .1 | .4 | .9 | 90 | 30.7 | 88 | 99 | 56 | 1 | 0 | 4 |
| NC CHARLOTTE | 86 | 69 | 90 | 67 | 77 | 1 | T | -.2 | .6 | .1 | .2 | 25 | 29.4 | 95 | 89 | 51 | 3 | 0 | 2 |
| NC GREENSBORO | 85 | 67 | 91 | 63 | 76 | 2 | T | .1 | .9 | .1 | .1 | 10 | 30.5 | 98 | 84 | 49 | 1 | 0 | 1 |
| NC HATTERAS | 83 | 71 | 87 | 68 | 77 | 0 | T | .8 | .6 | .8 | .8 | 57 | 40.1 | 107 | 94 | 70 | 0 | 0 | 3 |
| NC NEW BERN | 88 | 72 | 92 | 68 | 80 | 2 | T | 1.0 | .4 | .7 | 1.0 | 71 | 40.1 | 103 | 91 | 59 | 4 | 0 | 4 |
| NC RALEIGH | 87 | 69 | 93 | 67 | 78 | 3 | T | -.9 | .7 | T | 0 | 0 | 32.2 | 104 | 95 | 53 | 2 | 0 | 1 |
| NC WILMINGTON | 88 | 71 | 93 | 70 | 80 | 2 | T | 2.0 | .5 | 1.2 | 2.0 | 133 | 43.9 | 109 | 90 | 59 | 4 | 0 | 2 |
| ND BISMARCK | 94 | 58 | 103 | 48 | 76 | 12 | T | -.3 | .3 | T | 0 | 0 | 10.3 | 80 | 85 | 22 | 6 | 0 | 0 |
| ND FARGO | 86 | 61 | 97 | 55 | 74 | 9 | T | 1.8 | 1.3 | 1.3 | 1.8 | 360 | 15.1 | 95 | 95 | 47 | 3 | 0 | 3 |
| ND GRAND FORKS | 90 | 63 | 103 | 57 | 77 | 15 | T | .5 | .1 | .3 | .5 | 83 | 17.0 | 120 | 91 | 41 | 4 | 0 | 2 |
| ND WILLISTON | 95 | 60 | 104 | 52 | 78 | 14 | T | .1 | .3 | .1 | .1 | 25 | 7.9 | 72 | 74 | 20 | 5 | 0 | 1 |
| OH AKRON-CANTON | 83 | 61 | 88 | 56 | 72 | 4 | T | .9 | .2 | .5 | .9 | 129 | 25.9 | 97 | 92 | 48 | 0 | 0 | 3 |
| OH CINCINNATI | 86 | 64 | 91 | 62 | 75 | 3 | T | .9 | .5 | .7 | .9 | 150 | 26.7 | 89 | 93 | 48 | 1 | 0 | 2 |
| OH CLEVELAND | 83 | 61 | 90 | 57 | 72 | 4 | T | 1.2 | .5 | .9 | 1.2 | 171 | 24.7 | 95 | 94 | 52 | 1 | 0 | 3 |
| OH COLUMBUS | 86 | 62 | 91 | 59 | 74 | 4 | T | 1.3 | .6 | .9 | 1.3 | 186 | 23.9 | 84 | 87 | 42 | 1 | 0 | 2 |

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

Weather Data for the Week Ending Sept. 3, 1983

| STATES AND STATIONS | TEMPERATURE °F | | | | | | PRECIPITATION | | | | | | | RELATIVE HUMIDITY, PERCENT | | NUMBER OF DAYS | | | | |
|---------------------------|--------------------|--------------------|-----------------|----------------|---------|--------------------------|----------------------|--------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|----------------------------|--------------------|----------------|--------------|---------------------|---------------------|---|
| | AVERAGE MAXIMUM | AVERAGE MINIMUM | EXTREME HIGH | EXTREME LOW | AVERAGE | DEPARTURE FROM NORMAL | WEEKLY TOTAL, IN. | DEPARTURE FROM NORMAL | GREATEST IN 24-HOUR, IN. | TOTAL, IN., SINCE AUG 28 | PCT. NORMAL SINCE AUG 28 | TOTAL, IN., SINCE JAN. 1 | PCT. NORMAL SINCE JAN. 1 | AVERAGE MAXIMUM | AVERAGE MINIMUM | TEMPERATURE °F | | PRECIPITATION | | |
| | | | | | | | | | | | | | | | | 90 AND ABOVE | 32 AND BELOW | .01 INCH OR MORE | .50 INCH OR MORE | |
| DAYTON | 87 | 61 | 92 | 56 | 74 | 3 | | | | | | | | | | | | | | |
| TOLEDO | 85 | 60 | 89 | 50 | 73 | 5 | .4 | -.2 | .4 | .4 | 67 | 24.7 | 93 | 84 | 36 | 1 | 0 | 0 | 0 | 0 |
| YOUNGSTOWN | 85 | 59 | 91 | 54 | 72 | 5 | .4 | -.3 | .3 | .4 | 57 | 21.6 | 93 | 84 | 36 | 1 | 0 | 0 | 0 | 0 |
| OK OKLAHOMA CITY | 93 | 70 | 101 | 63 | 81 | 6 | 1.2 | -.4 | .7 | 1.2 | 150 | 23.3 | 93 | 91 | 44 | 0 | 0 | 1 | 3 | 0 |
| TULSA | 97 | 73 | 105 | 66 | 85 | 6 | 0 | -.7 | 0 | 0 | 0 | 22.5 | 84 | 91 | 44 | 1 | 0 | 0 | 3 | 0 |
| OR ASTORIA | 68 | 57 | 76 | 52 | 62 | 2 | .2 | -.7 | .2 | .2 | 22 | 20.6 | 75 | 83 | 34 | 6 | 6 | 0 | 1 | 0 |
| BURNS | 77 | 41 | 83 | 37 | 59 | 2 | 1.2 | -.7 | .7 | 1.2 | 240 | 49.2 | 131 | 99 | 73 | 0 | 0 | 0 | 6 | 0 |
| MEDFORD | 77 | 53 | 84 | 47 | 65 | 2 | 1.1 | -.1 | .1 | .1 | 50 | 11.8 | 159 | 57 | 29 | 0 | 0 | 0 | 2 | 0 |
| PENDLETON | 80 | 56 | 92 | 51 | 68 | 1 | 1.1 | -.9 | .6 | 1.1 | 550 | 16.5 | 145 | 96 | 52 | 0 | 0 | 0 | 2 | 0 |
| PORTLAND | 73 | 60 | 76 | 57 | 67 | 1 | -.1 | -.1 | T | T | 0 | 9.0 | 123 | 82 | 32 | 2 | 2 | 0 | 3 | 0 |
| SALEM | 75 | 56 | 79 | 48 | 66 | 1 | 2.3 | 2.0 | 1.1 | 2.3 | 767 | 31.2 | 145 | 89 | 59 | 0 | 0 | 0 | 2 | 0 |
| PA ALLENTOWN | 85 | 63 | 89 | 57 | 74 | 5 | .1 | -.1 | T | T | 700 | 37.2 | 162 | 89 | 55 | 0 | 0 | 0 | 4 | 2 |
| ERIE | 80 | 61 | 82 | 52 | 71 | 5 | .2 | -.7 | T | .1 | 9 | 32.2 | 106 | 88 | 44 | 0 | 0 | 0 | 5 | 2 |
| HARRISBURG | 84 | 62 | 89 | 56 | 73 | 2 | .2 | -.6 | .2 | .2 | 22 | 26.9 | 102 | 88 | 54 | 0 | 0 | 0 | 2 | 0 |
| PHILADELPHIA | 84 | 67 | 87 | 64 | 76 | 3 | 1.0 | -.1 | .1 | .2 | 25 | 31.5 | 117 | 91 | 43 | 0 | 0 | 0 | 1 | 0 |
| PITTSBURGH | 82 | 60 | 88 | 55 | 71 | 3 | .9 | -.2 | .8 | .9 | 129 | 27.3 | 100 | 94 | 50 | 0 | 0 | 0 | 2 | 0 |
| SCRANTON | 82 | 60 | 87 | 54 | 71 | 4 | .4 | -.4 | .4 | .4 | 50 | 28.4 | 116 | 90 | 50 | 0 | 0 | 0 | 3 | 0 |
| RI PROVIDENCE | 82 | 66 | 91 | 62 | 74 | 6 | 1.4 | 0 | .9 | 1.4 | 100 | 42.5 | 138 | 81 | 48 | 1 | 0 | 2 | 0 | 0 |
| SC CHARLESTON | 89 | 74 | 96 | 72 | 82 | 3 | 1.3 | -.1 | .7 | 1.3 | 108 | 31.4 | 85 | 94 | 55 | 4 | 0 | 0 | 3 | 0 |
| COLUMBIA | 89 | 71 | 97 | 69 | 80 | 2 | .3 | -.7 | .2 | .3 | 30 | 37.3 | 114 | 90 | 52 | 4 | 0 | 4 | 1 | 0 |
| FLORENCE | 89 | 71 | 96 | 69 | 80 | 2 | 2.3 | 1.3 | 1.6 | 2.3 | 230 | 38.1 | 104 | 90 | 60 | 1 | 0 | 3 | 2 | 0 |
| SD ABERDEEN | 92 | 65 | 101 | 58 | 79 | 13 | T | -.4 | T | 0 | 0 | 18.3 | 125 | 94 | 40 | 4 | 0 | 0 | 3 | 0 |
| HURON | 97 | 68 | 104 | 64 | 82 | 15 | T | -.4 | T | 0 | 0 | 12.4 | 82 | 95 | 32 | 7 | 0 | 0 | 1 | 0 |
| RAPID CITY | 93 | 61 | 99 | 58 | 77 | 10 | T | -.3 | T | 0 | 0 | 13.6 | 99 | 72 | 24 | 5 | 0 | 0 | 0 | 0 |
| SIoux FALLS | 92 | 67 | 96 | 62 | 79 | 12 | 1.5 | -.7 | 1.3 | 1.5 | 188 | 21.2 | 108 | 93 | 49 | 5 | 0 | 0 | 0 | 0 |
| TN CHATTANOOGA | 87 | 69 | 94 | 67 | 78 | 1 | 1.1 | -.2 | .6 | 1.1 | 122 | 31.6 | 84 | 92 | 52 | 3 | 0 | 4 | 1 | 0 |
| KNOXVILLE | 86 | 67 | 90 | 64 | 76 | 1 | .5 | -.9 | .3 | .5 | 71 | 28.6 | 83 | 100 | 58 | 1 | 0 | 0 | 4 | 0 |
| MEMPHIS | 94 | 74 | 97 | 68 | 84 | 5 | T | -.2 | T | 0 | 0 | 35.0 | 91 | 90 | 44 | 6 | 0 | 0 | 0 | 0 |
| NASHVILLE | 93 | 71 | 97 | 68 | 82 | 5 | .3 | -.5 | .2 | .3 | 38 | 34.3 | 97 | 91 | 45 | 6 | 0 | 0 | 0 | 0 |
| TX ABILENE | 97 | 73 | 104 | 62 | 85 | 5 | T | -.7 | T | 0 | 0 | 12.7 | 76 | 66 | 25 | 7 | 0 | 0 | 0 | 0 |
| AMARILLO | 96 | 66 | 98 | 60 | 81 | 7 | T | -.5 | T | 0 | 0 | 10.6 | 67 | 62 | 25 | 7 | 0 | 0 | 0 | 0 |
| AUSTIN | 95 | 74 | 101 | 72 | 85 | 2 | .2 | -.5 | .1 | .2 | 29 | 25.5 | 67 | 62 | 25 | 7 | 0 | 0 | 0 | 0 |
| BEAUMONT | 91 | 77 | 94 | 74 | 84 | 2 | .3 | -.1 | .3 | .3 | 21 | 54.3 | 113 | 85 | 40 | 7 | 0 | 2 | 0 | 0 |
| BROWNSVILLE | 94 | 75 | 97 | 72 | 84 | 1 | .9 | -.1 | .5 | .9 | 90 | 16.8 | 108 | 92 | 52 | 6 | 0 | 3 | 0 | 0 |
| CORPUS CHRISTI | 93 | 75 | 96 | 72 | 84 | 0 | -.2 | -.1 | .2 | .2 | 17 | 26.1 | 131 | 96 | 52 | 6 | 0 | 1 | 0 | 0 |
| DEL RIO | 100 | 76 | 105 | 73 | 88 | 4 | T | -.5 | T | 0 | 0 | 6.3 | 52 | 77 | 29 | 7 | 0 | 0 | 0 | 0 |
| EL PASO | 97 | 69 | 100 | 66 | 83 | 5 | 0 | -.3 | 0 | 0 | 0 | 4.9 | 91 | 57 | 22 | 7 | 0 | 0 | 0 | 0 |
| FORT WORTH | 95 | 74 | 100 | 69 | 85 | 2 | .1 | -.5 | .1 | .1 | 17 | 24.1 | 111 | 79 | 35 | 7 | 0 | 0 | 1 | 0 |
| GALVESTON | 93 | 80 | 98 | 74 | 86 | 4 | 1.2 | -.1 | 1.1 | 1.2 | 92 | 35.8 | 130 | 86 | 57 | 6 | 0 | 0 | 0 | 0 |
| HOUSTON | 92 | 74 | 95 | 72 | 83 | 2 | .8 | -.3 | .4 | .8 | 73 | 38.3 | 121 | 95 | 55 | 6 | 0 | 3 | 1 | 0 |
| LUBBOCK | 94 | 66 | 97 | 60 | 80 | 5 | 0 | -.5 | 0 | 0 | 0 | 8.2 | 59 | 64 | 29 | 7 | 0 | 0 | 0 | 0 |
| MIDLAND | 98 | 71 | 101 | 64 | 84 | 6 | 0 | -.4 | 0 | 0 | 0 | 3.0 | 30 | 61 | 23 | 7 | 0 | 0 | 0 | 0 |
| SAN ANGELO | 96 | 67 | 101 | 59 | 82 | 1 | 0 | -.6 | 0 | 0 | 0 | 10.0 | 79 | 76 | 27 | 7 | 0 | 0 | 0 | 0 |
| SAN ANTONIO | 97 | 73 | 101 | 69 | 85 | 2 | T | -.8 | T | 0 | 0 | 17.3 | 86 | 80 | 34 | 7 | 0 | 0 | 1 | 0 |
| VICTORIA | 94 | 74 | 96 | 72 | 84 | 1 | .1 | -.2 | T | .1 | 8 | 27.9 | 111 | 97 | 49 | 7 | 0 | 2 | 0 | 0 |
| WACO | 97 | 74 | 104 | 66 | 85 | 2 | T | -.6 | T | 0 | 0 | 18.6 | 83 | 83 | 37 | 7 | 0 | 1 | 0 | 0 |
| WICHITA FALLS | 99 | 71 | 106 | 62 | 85 | 4 | 0 | -.7 | 0 | 0 | 0 | 15.7 | 81 | 76 | 26 | 7 | 0 | 0 | 0 | 0 |
| UT BLANDING | 88 | 60 | 91 | 55 | 74 | 6 | .2 | 0 | .2 | .2 | 100 | 9.6 | 137 | 71 | 40 | 3 | 0 | 1 | 0 | 0 |
| CEDAR CITY | 88 | 60 | 90 | 53 | 74 | 5 | T | -.2 | T | 0 | 0 | 10.9 | 147 | 63 | 21 | 1 | 0 | 1 | 0 | 0 |
| SALT LAKE CITY | 89 | 66 | 96 | 62 | 77 | 7 | .6 | -.4 | .3 | .6 | 300 | 15.9 | 149 | 67 | 29 | 4 | 0 | 1 | 0 | 0 |
| VT BURLINGTON | 81 | 58 | 85 | 53 | 70 | 6 | .2 | -.6 | .1 | .2 | 25 | 30.5 | 129 | 87 | 46 | 0 | 0 | 2 | 0 | 0 |
| VA NORFOLK | 84 | 70 | 94 | 67 | 77 | 1 | 1.7 | -.6 | 1.2 | 1.7 | 155 | 31.0 | 95 | 92 | 60 | 1 | 0 | 3 | 1 | 0 |
| RICHMOND | 87 | 67 | 92 | 64 | 77 | 2 | .1 | -.9 | .1 | .1 | 10 | 26.5 | 85 | 100 | 51 | 2 | 0 | 1 | 0 | 0 |
| ROANOKE | 88 | 64 | 93 | 58 | 76 | 3 | 0 | -.8 | 0 | 0 | 0 | 29.8 | 106 | 92 | 39 | 4 | 0 | 0 | 0 | 0 |
| WA COLVILLE | 67 | 54 | 77 | 48 | 60 | 2 | 4.4 | 3.6 | 2.7 | 4.4 | 550 | 74.6 | 177 | 86 | 47 | 0 | 0 | 3 | 0 | 0 |
| QUILLAYUTE | 70 | 59 | 72 | 58 | 64 | 2 | 2.3 | 2.0 | .7 | 2.3 | 767 | 25.5 | 119 | 93 | 64 | 0 | 0 | 5 | 2 | 0 |
| SEATTLE-TACOMA | 82 | 57 | 92 | 54 | 70 | 5 | .1 | -.1 | .1 | .1 | 50 | 13.8 | 124 | 68 | 28 | 7 | 0 | 2 | 0 | 0 |
| SPOKANE | 78 | 56 | 85 | 51 | 67 | 1 | .4 | -.3 | .3 | .4 | 400 | 7.8 | 173 | 81 | 40 | 0 | 0 | 5 | 0 | 0 |
| YAKIMA | 78 | 59 | 81 | 54 | 69 | 2 | .2 | -.6 | .2 | .2 | 25 | 25.1 | 81 | 98 | 56 | 0 | 0 | 1 | 0 | 0 |
| WV BECKLEY | 88 | 64 | 93 | 61 | 76 | 4 | T | -.8 | T | 0 | 0 | 27.7 | 88 | 91 | 45 | 2 | 0 | 2 | 0 | 0 |
| CHARLESTON | 86 | 66 | 91 | 62 | 76 | 4 | .1 | -.7 | .1 | .1 | 13 | 26.2 | 86 | 95 | 50 | 1 | 0 | 1 | 0 | 0 |
| HUNTINGTON | 85 | 64 | 89 | 60 | 75 | 4 | .3 | -.5 | .3 | .3 | 500 | 29.3 | 92 | 95 | 45 | 0 | 0 | 2 | 1 | 0 |
| PARKERSBURG | 86 | 66 | 99 | 59 | 77 | 10 | .1 | -.7 | .1 | .1 | 38 | 23.8 | 117 | 98 | 52 | 0 | 0 | 1 | 0 | 0 |
| WI GREEN BAY | 82 | 60 | 88 | 53 | 71 | 7 | .3 | -.5 | .3 | .3 | 38 | 20.2 | 86 | 95 | 48 | 3 | 0 | 1 | 0 | 0 |
| LA CROSSE | 88 | 66 | 99 | 59 | 77 | 10 | .1 | -.7 | .1 | .1 | 13 | 20.2 | 86 | 95 | 48 | 3 | 0 | 1 | 0 | 0 |
| MADISON | 84 | 57 | 89 | 48 | 71 | 6 | .3 | -.5 | .3 | .3 | 38 | 23.2 | 99 | 96 | 51 | 0 | 0 | 1 | 0 | 0 |
| MILWAUKEE | 83 | 64 | 89 | 60 | 73 | 7 | T | -.7 | T | 0 | 0 | 25.6 | 114 | 83 | 55 | 0 | 0 | 0 | 0 | 0 |
| WY WAUSAU | 84 | 63 | 88 | 55 | 73 | 10 | T | -.6 | .8 | 1.6 | 160 | 20.2 | 83 | 93 | 48 | 0 | 0 | 2 | 0 | 0 |
| CASPER | 92 | 57 | 96 | 53 | 74 | 10 | T | -.1 | T | 0 | 0 | 13.6 | 66 | 16 | 6 | 0 | 0 | 2 | 0 | 0 |
| CHEYENNE | 84 | 55 | 89 | 52 | 69 | 6 | .3 | -.1 | .3 | .3 | 150 | 17.2 | 156 | 84 | 26 | 0 | 0 | 1 | 0 | 0 |
| LANDER | 87 | 59 | 94 | 53 | 73 | 9 | T | -.1 | T | 0 | 0 | 10.6 | 108 | 47 | 18 | 2 | 0 | 0 | 0 | 0 |
| SHERIDAN | 95 | 58 | 99 | 48 | 76 | 13 | T | -.3 | T | 0 | 0 | 5.1 | 44 | 52 | 15 | 5 | 0 | 0 | 0 | 0 |
| PR SAN JUAN | 90 | 79 | 91 | 77 | 85 | 3 | .2 | -.1 | .1 | .2 | 14 | 28.3 | 81 | 89 | 65 | 5 | 0 | 2 | 0 | 0 |

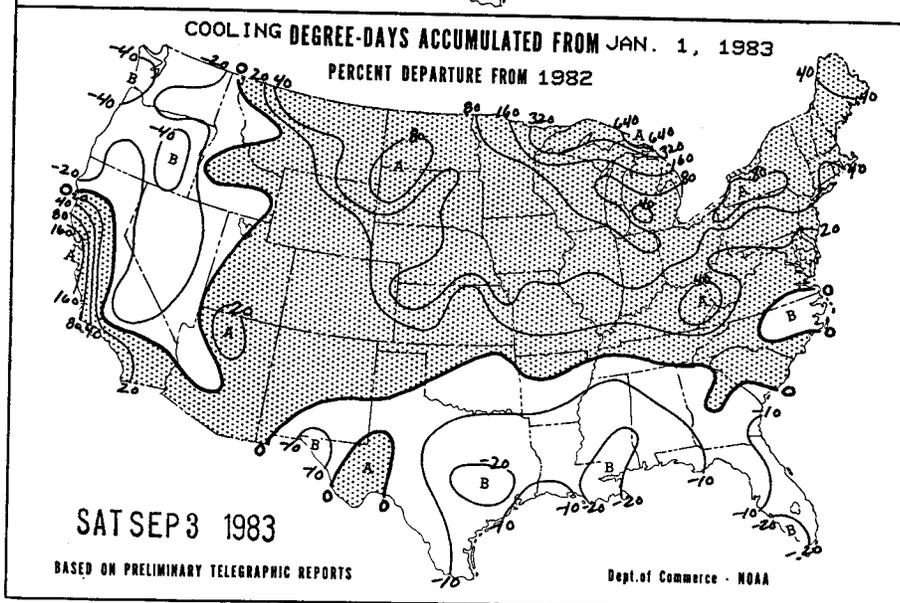
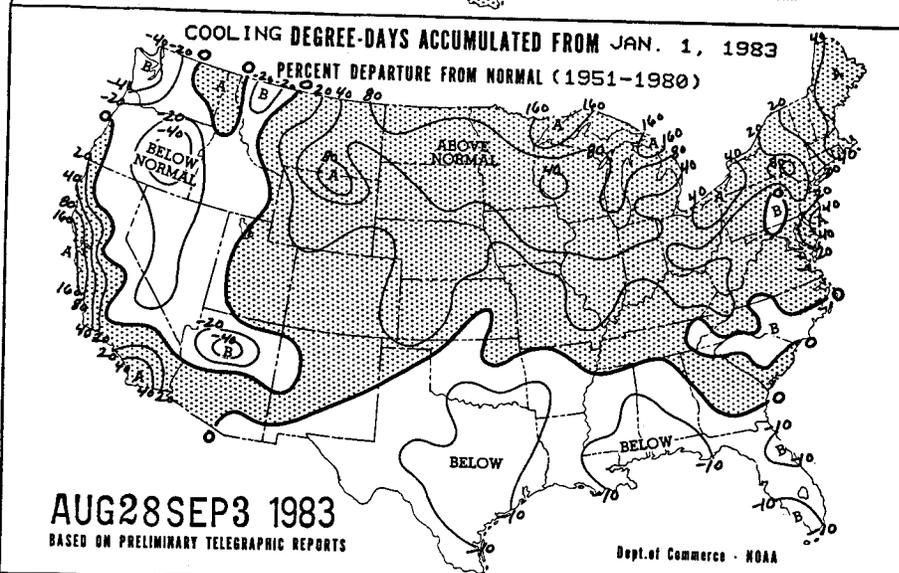
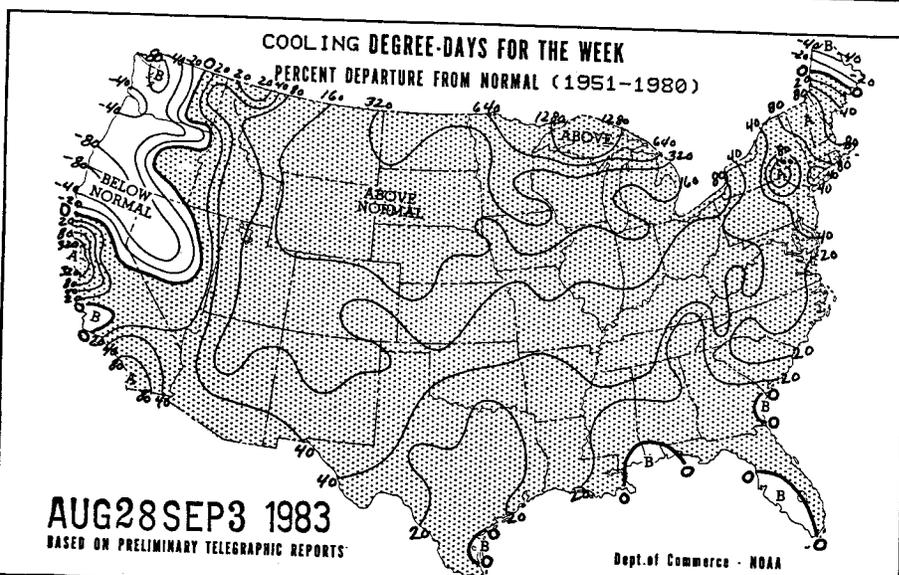
BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

COOLING DEGREE DAY DATA WEEKLY SUMMARY
CLIMATE ANALYSIS CENTER-NMC-NWS-NOAA
ASSESSMENT AND INFORMATION SERVICES CENTER-NESDIS-NOAA

THE FOLLOWING CHANGES HAVE BEEN MADE TO THE DEGREE DAY DATA.
NEW NORMALS (51-80) ARE NOW BEING USED.
11 STATIONS IN ALASKA, DELAWARE, AND HAWAII HAVE BEEN ADDED.

LAST DATE OF DATA COLLECTION PERIOD IS 9-3-1983
ACCUMULATIONS ARE FROM JANUARY 1
***** = NORMAL LESS THAN 100 OR RATIO INCALCULABLE

Table with columns: STATE CITY, CALL, WEEK TOTAL, WEEK DEV FROM NORM, WEEK DEV FROM L YR, CUM TOTAL, CUM DEV FROM NORM, CUM DEV FROM L YR, CUM DEV FROM NORM PRCT, CUM DEV FROM L YR PRCT. Rows list various cities and their corresponding weather data.



National Agricultural Summary

August 29 to September 4

HIGHLIGHTS: Hot, dry conditions delayed winter wheat seeding from the southern Plains into the Corn Belt. Widespread showers aided soybean sizing in portions of the Corn Belt and the Southeast, but the benefit to the corn crop was limited because of the late stage of development in many areas. Corn for grain acres continued to be cut for silage in the Southeast. Soil moisture was very short to short from the southern Plains eastward to Virginia, adequate in the West, and mostly short to adequate elsewhere. Farmers had 5 to 7 days suitable for fieldwork across the Nation. Winter wheat combining was nearly complete in the Northwest. Spring wheat was 95% harvested, 21 points ahead of normal. Ninety-four percent of the corn was in or past the dough stage and 64% was dented. Harvesting moved northward into Maryland and Missouri. Ninety-seven percent of soybeans had bloomed, and 90% had set pods. Moisture stress caused blossom and pod loss in some areas. Sorghum was headed on 91% of the acreage and coloring on 53% of the acreage. Cotton bolls were opening on 18% of the acreage, 11 points behind average. Rice was 91% headed and 26% harvested. The Texas harvest was 88% finished. In the Northeast, peach picking was at its peak, and potato growers began to kill vines. Pastures and ranges continued deteriorating, and supplemental feeding increased.

SMALL GRAINS: Winter wheat combining rapidly approached completion in the Northwest, well ahead of normal. Seeding reached 6% completion in Colorado, 3% in Nebraska, and was less than 5% finished in Montana. Hot, dry conditions limited planting from the southern Plains into the western Corn Belt. Producers plowed wheatland, but delayed seeding in hopes of rain.

Spring wheat harvesting reached 95% completion in the five major producing States, well ahead of last year's 76% and the 74% average. Warm temperatures caused rapid maturity and early combining in most areas. Idaho with 53% harvested was the only State behind normal.

CORN: Scattered showers provided limited benefit to the corn crop in portions of the Corn Belt and Southeast. However, fields continued in mostly poor to fair condition, except in the West, northern Plains, Great Lakes States, and the lower Delta where fair to good conditions were reported. Grain acres continued to be cut for silage in the Southeast. In the 17 major producing States, 94% of the corn was in or past the dough stage, and 64% was in or past the dent stage. Normally, about 90% has reached the dough stage and 59% has reached the dent stage. Crop development continued ahead of average across the Corn Belt due to the continued above-normal temperatures. Harvesting became more active and moved northward into Maryland and Missouri.

SOYBEANS: Widely scattered showers aided the filling of soybean pods in portions of the Corn Belt and benefited late-planted soybeans in the extreme Southeast. However, some fields from Virginia to South Carolina continued to lose blossoms and pods due to moisture stress. Stands continued in poor to fair condition in most producing areas. Growers across the northern Plains increased applications of insecticides to control large populations of woolly bear caterpillars. In the 18 major producing States, 97% of the crop had bloomed, 1 point behind both last year and the average. Ninety percent of the crop had set pods, compared with 93% a year earlier. Fields began dropping leaves in portions of the Corn Belt.

COTTON: Cotton was rated in mostly fair condition, except in Missouri and the Southeast where fair to poor conditions prevailed. Moisture stress caused some boll droppage in portions of Texas and the Southeast. Boll set was virtually finished in all States. Bolls had opened on 18% of the acreage in the 14 major producing States, compared with the 29% average for this date. Picking had begun in Georgia and was 10% finished in Texas. Spraying to control insects was active in many areas.

SORGHUM: Dryland sorghum fields became severely stressed across the southern Plains. Stands reached a critical development stage in Oklahoma and need moisture, while scattered showers benefited some stands in Kansas. Sorghum was in poor to fair condition, except in Colorado and Texas where fair to good conditions were reported. In the seven major producing States, heading was complete on 91% of the acreage, slightly behind last year's 92% and the average of 96%. Sorghum was coloring on 53% of the acreage, behind the 59% average. Coloring ranged from 25% in Kansas to 73% in Texas. Harvesting was active in Texas, reaching 62% completion, 4 points behind normal. Harvesting in Texas moved northward to the Blacklands.

OTHER CROPS: Tobacco harvesting continued active in all producing areas but trailed normal, except in Maryland. The burley crop was 18% cut in Kentucky, compared with the 39% average. Five percent of the burley crop and 70% of the flue-cured crop was harvested in North Carolina.

Peanut harvesting activity increased in many areas. Rainfall in the extreme Southeast aided crop development, but dry conditions in other areas stressed stands. The crop was in fair to poor condition in the Southeast. Irrigated fields in Texas were in excellent condition; however, dryland fields showed moisture stress.

Rice was headed on 91% of the acreage in the five major producing States, and harvesting was 26% complete. In the Southern States, harvesting ranged from 3% finished in Arkansas to 88% complete in Texas. Stands were rated in mostly fair to good condition.

VEGETABLES: Fall vegetable harvesting gained momentum on northern areas as volumes of summer vegetables continued to decline. Florida producers planted winter vegetables. Land preparation was very active, and irrigation has started in most extreme southern producing areas. California producers continued harvesting and planting a wide variety of vegetable crops. Growers in the Northeast began killing potato vines.

FRUITS AND NUTS: Peach picking reached its peak in the Northeast. The early apple harvest picked up momentum; fall apples began coloring. Florida's citrus groves continued in excellent condition with limited irrigation in drier areas. Early grapefruit were harvested. California producers picked apples, fresh grapes, pomegranates, prunes, grapefruits lemons, and almonds. The raisin lay was in full swing.

PASTURES AND LIVESTOCK: Pastures and ranges continued to deteriorate from the Rocky Mountains eastward as hot dry conditions continued in most regions. Supplemental feeding continued to become more widespread, and stock water supplies were becoming short in some areas. Poultry producers in Arkansas and the Southeast continued to experience losses due to the heat. In the West, livestock began moving from summer ranges.

CROP PROGRESS
FOR WEEK ENDING SEPT 4

| SOYBEANS % SETTING PODS | | | |
|----------------------------|------|------|------|
| | 1983 | 1982 | AVG. |
| ALA | 87 | 96 | 89 |
| ARK | 68 | 86 | 79 |
| GA | 84 | 94 | 87 |
| ILL | 100 | 100 | 100 |
| IND | 99 | 99 | 95 |
| IOWA | 100 | 93 | 99 |
| KANS | 85 | 70 | 85 |
| KY | 75 | 88 | 80 |
| LA | 88 | 91 | 91 |
| MICH | 100 | 100 | 100 |
| MINN | 99 | 99 | 99 |
| MISS | 64 | 95 | 91 |
| MO | 89 | 78 | 81 |
| NEBR | 100 | 94 | 100 |
| N C | 66 | 78 | 74 |
| OHIO | 100 | 100 | 100 |
| S C | 69 | 85 | 84 |
| TENN | 92 | 100 | 82 |
| 18 STATES | 90 | 93 | 92 |

| SOYBEANS % BLOOMING | | | |
|------------------------|------|------|------|
| | 1983 | 1982 | AVG. |
| ALA | 93 | 98 | 95 |
| ARK | 91 | 94 | 92 |
| GA | 97 | 100 | 98 |
| ILL | 100 | 100 | 100 |
| IND | 100 | 100 | 100 |
| IOWA | 100 | 100 | 100 |
| KANS | 98 | 90 | 98 |
| KY | 95 | 100 | 100 |
| LA | 97 | 99 | 98 |
| MICH | 100 | 100 | 100 |
| MINN | 100 | 100 | 100 |
| MISS | 92 | 100 | 100 |
| MO | 99 | 92 | 91 |
| NEBR | 100 | 100 | 100 |
| N C | 87 | 95 | 92 |
| OHIO | 100 | 100 | 100 |
| S C | 94 | 97 | 96 |
| TENN | 95 | 100 | 99 |
| 18 STATES | 97 | 98 | 98 |

| CORN % DOUGH | | | |
|-----------------|------|------|------|
| | 1983 | 1982 | AVG. |
| COLO | 82 | 76 | 76 |
| GA | 100 | 100 | 100 |
| ILL | 99 | 100 | 100 |
| IND | 97 | 100 | 95 |
| IOWA | 94 | 71 | 87 |
| KANS | 90 | 90 | 95 |
| KY | 95 | 100 | 100 |
| MICH | 95 | 95 | 96 |
| MINN | 96 | 84 | 83 |
| MO | 99 | 90 | 85 |
| NEBR | 90 | 75 | 85 |
| N C | 99 | 100 | 99 |
| OHIO | 100 | 100 | 100 |
| PA | 86 | 84 | 85 |
| S DAK | 79 | 72 | 85 |
| VA | 93 | 95 | 95 |
| WIS | 78 | 65 | 65 |
| 17 STATES | 94 | 86 | 90 |

| CORN % DENT | | | |
|----------------|------|------|------|
| | 1983 | 1982 | AVG. |
| COLO | 37 | 31 | 36 |
| GA | 100 | 100 | 100 |
| ILL | 84 | 84 | 76 |
| IND | 55 | 85 | 60 |
| IOWA | 68 | 37 | 57 |
| KANS | 45 | 55 | 65 |
| KY | 70 | 88 | 77 |
| MICH | 30 | 55 | 48 |
| MINN | 67 | 38 | 47 |
| MO | 89 | 71 | 71 |
| NEBR | 50 | 25 | 45 |
| N C | 97 | 94 | 96 |
| OHIO | 70 | 85 | 55 |
| PA | 27 | 37 | 36 |
| S DAK | 49 | 29 | 53 |
| VA | 76 | 80 | 81 |
| WIS | 49 | 27 | 48 |
| 17 STATES | 64 | 55 | 59 |

THESE 18 STATES PRODUCED 94% OF THE 1982 SOYBEAN CROP.

THESE 18 STATES PRODUCED 94% OF THE 1982 SOYBEAN CROP.

THESE 17 STATES PRODUCED 93% OF THE 1982 CORN CROP.

THESE 17 STATES PRODUCED 93% OF THE 1982 CORN CROP.

| RICE % HEADED | | | |
|------------------|------|------|------|
| | 1983 | 1982 | AVG. |
| ARK | 92 | 95 | 93 |
| CALIF | 70 | 75 | 82 |
| LA | 98 | 96 | 97 |
| MISS | 93 | 97 | 95 |
| TEX | 100 | 100 | 100 |
| 5 STATES | 91 | 93 | 93 |

| RICE % HARVESTED | | | |
|---------------------|------|------|------|
| | 1983 | 1982 | AVG. |
| ARK | 3 | 9 | 6 |
| CALIF | 0 | 0 | 0 |
| LA | 60 | 68 | 75 |
| MISS | 4 | 8 | 12 |
| TEX | 88 | 92 | 97 |
| 5 STATES | 26 | 31 | 32 |

THESE 5 STATES PRODUCED 98% OF THE 1982 RICE CROP.

THESE 5 STATES PRODUCED 98% OF THE 1982 RICE CROP.

| SORGHUM % COLORING | | | |
|-----------------------|------|------|------|
| | 1983 | 1982 | AVG. |
| COLO | 46 | 30 | 30 |
| KANS | 25 | 15 | 40 |
| MO | 56 | 59 | 55 |
| NEBR | 50 | 10 | 45 |
| OKLA | 40 | 55 | 70 |
| S DAK | 49 | 27 | 49 |
| TEX | 73 | 75 | 79 |
| 7 STATES | 53 | 45 | 59 |

| SORGHUM % HEADED | | | |
|---------------------|------|------|------|
| | 1983 | 1982 | AVG. |
| COLO | 90 | 88 | 91 |
| KANS | 80 | 80 | 90 |
| MO | 90 | 90 | 91 |
| NEBR | 100 | 97 | 100 |
| OKLA | 95 | 85 | 97 |
| S DAK | 90 | 98 | 96 |
| TEX | 95 | 99 | 99 |
| 7 STATES | 91 | 92 | 96 |

THESE 7 STATES PRODUCED 90% OF THE 1982 SORGHUM CROP.

THESE 7 STATES PRODUCED 90% OF THE 1982 SORGHUM CROP.

| COTTON % BOLLS OPENING | | | |
|---------------------------|------|------|------|
| | 1983 | 1982 | AVG. |
| ALA | 15 | 28 | 22 |
| ARIZ | 50 | 55 | 60 |
| ARK | 23 | 45 | 25 |
| CALIF | 15 | 20 | 29 |
| GA | 29 | 29 | 42 |
| LA | 12 | 46 | 35 |
| MISS | 33 | 70 | 53 |
| MO | 33 | 29 | 28 |
| N MEX | 6 | 20 | 12 |
| N C | 40 | 34 | 41 |
| OKLA | 0 | 0 | 5 |
| S C | 62 | 55 | 52 |
| TENN | 22 | 22 | 13 |
| TEX | 14 | 18 | 24 |
| 14 STATES | 18 | 28 | 29 |

THESE 14 STATES PRODUCED 99% OF THE 1982 COTTON CROP.

| SPRING WHEAT % HARVESTED | | | |
|-----------------------------|------|------|------|
| | 1983 | 1982 | AVG. |
| IDAHO | 53 | 66 | 67 |
| MINN | 97 | 92 | 93 |
| MONT | 95 | 50 | 45 |
| N D | 96 | 73 | 70 |
| S DAK | 100 | 100 | 98 |
| 5 STATES | 95 | 76 | 74 |

THESE 5 STATES PRODUCED 96% OF THE 1982 SPRING WHEAT CROP.

State Summaries of Weather and Agriculture

These summaries provide brief descriptions of crop and weather conditions important on a national scale. More detailed data are available in Weather and Crop Bulletins published each Monday by SRS State Statistical Offices in cooperation with the National Weather Service.

ALABAMA: Temperatures above normal. Rainfall light north, 1.00 to 3.00 in. in south.

Soil moisture very short to short. Field-work : 6.1 days. Corn mature 89%, 1982 97%; harvested 37%, 1982 56%, average 46%. Cotton bolls open 15%, 1982 28%, average 22%. Soybeans blooming 93%, 1982 98%, average 95%; setting pods 87%, 1982 96%, average 89%; turning yellow 10%, 1982 10%, average 21%. Sorghum harvested 17%, 1982 22%. Peanuts dug 4%, 1982 16%, average 4%. Activities: Harvesting corn, sorghum, hay, vegetables, and fruits; pest control on field crops; routine care of livestock and poultry; and land preparation for fall crops. Conditions: Corn, peanuts, and sorghum fair; soybeans, cotton, and pasture mostly fair.

ALASKA: Cool, wet weather. Temperatures cooler than normal. Precipitation greater than normal.

Continued rain, cooler temperatures hampered harvest operations Tanana and Matanuska Valleys. Light snow 2nd and hard frost 3rd ended growing season Delta area. Growers throughout Railbelt had 0 to 5 days suitable making hay and other fieldwork. Small grain and hay growers continued to wait for dryer conditions. Late stooking was causing harvesting, drying problems. Warm, sunny days needed to hasten maturity. Wind and rain damage ranged very little to moderate. Vegetable harvest continued. Potato harvest early varieties continued most areas. Soil moisture supplies varied short to surplus.

ARIZONA: Very hot weather, temperatures near record levels. Average temperature 11° above normal at Phoenix to normal at Grand Canyon. Heaviest precipitation was in north central, southeastern sections, also White Mountains. Amounts around 0.50 in.

Range, Pastures much improved. August rainfall increased forage growth. Most ranges, pastures in good condition. Some areas extreme southeast experienced sporadic rainfall, ranges, pastures in average condition. Livestock remained good condition, tank water supplies running short to adequate. No significant insect damage. Cotton continues to develop normally. Crop in average condition, bolls open on 50% of acreage. Compares with 55% a year ago, 60% average. Pink bollworm, lygus, tobacco budworms a problem, spraying done as needed. Corn growers getting ready for harvest which expected to begin this month. Crop progressing well and tasseling. Sorghum in average to good condition and heading out, some harvesting taking place. Alfalfa harvest continued. Planting of 1983-84 fall lettuce took place. Lettuce stands in Cochise County look good, harvest to begin around September 20. Other fall vegetables planted include cauliflower, broccoli. Dry onions, green chiles, green onions being harvested. Summer melon harvest virtually completed, some watermelons still left. Fall crop melons in good shape limited amounts of watermelon, cantaloups harvested. Harvest of the 1983-84 lemon crop in Yuma County continued. Picking in other areas has not begun. Lemons not ready for harvest, other citrus crops sizing normally. Groves in good condition. Grapefruits picked on limited scale. Other fruit harvests included apples, peaches.

ARKANSAS: Hot and dry weather beginning of week. Rains at midweek. Temperatures 1 to 6° above normal. Highest 106°, lowest 54°. Thundershowers confined mainly to western two-thirds of State. Highest rainfall 1.44 in. Least amount 0 to trace.

Days suitable for fieldwork 6.4. Crop progress slow. Soil moisture short to very short in eastern sections. Cotton fair; bolls opening 23%, 45% 1982, 25% average. Rice good condition; headed 92%, 95% 1982, 93% average; ripe 14%, 39% 1982, 32% average; harvested 3%, 9% 1982, 6% average. Soybeans fair to good condition, non-irrigated poor condition; blooming 91%, 94% 1982, 92% average; setting pod 68%, 86% 1982, 79% average; turning yellow 14%, 11% 1982, 9% average; none harvested. Corn fair; harvested 54%, 64% 1982, 33% average. Sorghum fair; harvested 22%, 24% 1982, 23% average. Pastures poor burning up. Cattle no weight gain feeding hay. Losing some poultry.

CALIFORNIA: A fairly vigorous low pressure area remained off the Oregon coast most of the week. Moist air, pumped across the north coast mountains, produced record rainfalls for the time of the year there. The Cascade-Sierra was uniformly cooler than normal while the central and south coasts, as well as the southeast Interior, were warmer than normal as much as 9°. The Central Valley, Red Bluff to Bakersfield, had mixed departures from normal temperature wise.

Cooler temperatures slowed crop development. Rice continues to head out, 70% have headed compared to 75% last year and an average of 82%. Cotton maturity still 1 to 2 weeks behind. Irrigation winding down, 15% of fields have open bolls compared to 20% last year and an average of 29%. Dry beans in bloom to early pod set. Harvest has begun in southern areas. Harvest of sugarbeets in south San Joaquin Valley nearly complete. Northern California harvest will begin soon. Safflower harvest active. Field corn doing well, silage continues to be cut. Harvesting main activity. Apple harvest underway, light crop Sonoma County. Fig crop damaged 10% by earlier rains in Riverside County. Bunch rot in grapes a problem, mainly San Joaquin Valley, some fungicide being applied. Raisin lay in full swing, no labor shortages. Fresh grapes being shipped, volume increasing. Kiwi sizing. Olive production down, scale spraying in Glenn County. Brown rot damage in cling peaches increased by rain, Merced County. Pomegranate harvest underway. Sacramento Valley prune harvest in full swing. Riverside County grapefruit entering export channels briskly. Desert lemons being harvested. Valencia harvest continues, granulation reported. Nonpareil almond harvest continues, low yields. Walnut orchards being prepared, some husk fly spraying. Green bean harvest continues for market, processing. Broccoli, cauliflower harvest active Central Coast. Planting San Joaquin Valley, Southern California. Cantaloup, mixed melon harvest central Interior Valleys, West Riverside, carrot harvest active Salinas Valley, light Kern District. Celery harvest active Central Coast, transplanting all coastal areas. Lettuce harvest active Central Coast. Planting San Joaquin Valley, Desert. Bell pepper harvest increasing Central Coast, continues South Coast, San Joaquin Valley. Summer potato harvest continues. Digging fall Norgolds

starting. Limited digging sweetpotatoes. Market tomato harvest active. Harvest processing tomatoes at peak. Central Valley, foothill areas continue dry. Fire danger high result dry conditions. Movement cattle from summer ranges increasing.

COLORADO: Hot and mostly dry weather. Widely scattered showers mostly in foothills at end of week. Temperatures above normal.

Winter wheat in good condition; 6% seed; 5% emerged. Corn in good to very good condition; 82% in dough, 76% last year, 76% average; 37% dented, 31% last year, 36% average. Sorghum in fair to good condition; 90% headed, 88% last year, 91% average; 46% turning color, 30% last year, 30% average. Barley, oats and spring wheat in fair to very good condition; barley 73% harvested, 76% last year, 77% average; spring wheat 22% harvested, 31% last year, 49% average. Statewide, 6.0 days suitable for fieldwork. Topsoil and subsoil moisture short in some areas but mostly adequate. Range and pasture condition, poor in southeast, good to very good rest of State.

FLORIDA: Most of period dominated by heavy showers, thunderstorms from an upper air disturbance over northeast Gulf of Mexico. By the 3rd, skies began to clear and showers, thunderstorms shut off, as dry air moved back over the State under rising pressure.

Soil moisture adequate to excessive south, south central and upper east coast; short to adequate north, Panhandle. Corn harvest about complete, peanut harvest underway. Nonirrigated peanuts hit hard by dry weather. Early soybeans fair to good, late beans poor condition. Cotton opening rapidly. Hay harvest active. Sugarcane prospects good to excellent. Pasture conditions good to excellent central, south Peninsula, but only poor to fair, north, Panhandle. Cattle remain in generally good condition. Citrus tree condition excellent. Moisture adequate most areas, limited irrigation drier sections. New crop fruit making normal progress, grapefruit for early harvest being tested, only occasional orange splitting reported. Caretakers active cultivating, spraying and pruning. Hot days with scattered showers prevailed, vegetable areas. Land preparation, laying plastic very active. Plantings celery, eggplant, cucumbers, peppers, squash, tomatoes continue increases. Sweet corn seeding continues, Everglads. Snap bean plantings underway. Plants in cabbage seedbeds progressing favorably.

GEORGIA: Isolated to widely scattered thunder-showers through midweek then rain 1st. Warm to locally hot during the 3rd and 4th. Temperatures averaged 2 to 4° above normal. Rainfall averaged near 1.00 in. but varied widely. Over the weekend beginning 2nd, warm with scattered showers and thunderstorms. Average rainfall near 1.00 in. with locally heavier amounts.

Soil moisture 29% very short, 44% short, 25% adequate, 2% surplus. Late week rainfall improved soil moisture supplies rating to short to adequate. Average days suitable for fieldwork: 4.7. Dry conditions continue in some areas. Main activities harvesting corn, hay, spraying for insects and disease, caring for livestock and poultry. Corn condition 8% very poor, 27% poor, 45% fair, 17% good, 3% excellent; 100% dent stage, this year, last year and average; 96% mature, 98% last year and average; 59% harvested, 70% last year, 62% average. Cotton condition 7% very poor, 25% poor, 52% fair, 14% good; 29% bolls open this year and last, 42% average.

Cotton harvest just beginning. Peanut condition 12% very poor, 33% poor, 37% fair, 13% good, 5% excellent; 8% dug, 18% last year, 10% average; 4% threshed, 9% last year, 5% average. Soybean condition 13% very poor, 41% poor, 36% fair, 9% good; 97% blooming, 100% last year, 98% average; 84% setting pods, 94% last year, 87% average; 11% dropping leaves this year and last, 9% average; rains beneficial for late planted soybeans. Tobacco 94% harvested, 100% last year, 98% average. Watermelons 99% harvested, 100% last year, 98% average. Condition of apples 16% very poor, 29% poor, 39% fair, 16% good; 64% picked, 70% last year, 66% average. Pecan condition 4% very poor, 23% poor, 58% fair, 15% good. Hay crops 14% very poor, 40% poor, 40% fair, 5% good. Pastures 17% very poor, 40% poor, 35% fair, 8% good. Some reports of heat stress of cattle and hogs. Supplemental cattle feeding continues. Poultry losses due to continued heat.

HAWAII: Weather continued favorable for the State's agricultural sector. Days were mostly hot and humid but nights were relatively cool. Isolated, gusty winds adversely affected crops in exposed areas. Local supplies of most vegetables will remain above year ago levels. Fruit output currently on a seasonal decline. Harvesting of pineapple for the processed market has been permanently terminated on Molokai and will be replaced by sporadic harvesting to supplement the fresh market.

IDAHO: Precipitation was limited to a few showers in the northern third of the State and the southeast highlands through 31st. Then a Pacific frontal system swept across the State on the 1st producing numerous showers and thunderstorms. Temperatures were near or above average for the entire State. The greatest departure was 9° above normal at Idaho Falls. The greatest precipitation fell in the north. Grangeville received the most rain with 1.1 in. Fair weather brought 6.3 days suitable for fieldwork. Winter wheat jumped to 78% harvested compared to 85% last year and 83% average. Spring wheat climbed to 53% harvested versus 66% last year and 67% average. Barley advanced to 59% harvested compared to 60% a year ago and 66% average. Vines were dying on 26% of the potato acreage, the same level as a year ago. The dry pea harvest was finished on 89% of the acreage. Sweet corn for processing was 36% harvested. Dry beans were harvested on 6% of the acreage. The second cutting of alfalfa was 82% complete while the third cutting was 7% finished.

ILLINOIS: Temperatures 4 to 9° above normal. Precipitation none to 0.35 in., widely scattered.

Soil moisture 86% short, 14% adequate. Days suitable fieldwork: 6.3. Corn dented 84%, 1982 84%, average 76%; mature 20%, 1982 22%, average 28%; condition 6% good, 48% fair, 43% poor, 3% failure. Soybeans 99% setting pods, 1982 100%, average 100%; 31% turning yellow, 1982 35%, average 27%, 11% shedding leaves, 1982 9%, average 8%; condition 12% good, 61% fair, 27% poor. Alfalfa hay 3rd crop 80% cut, 1982 73%, average 71%; condition 4% good, 40% fair, 52% poor, 4% failure. Pasture condition 3% good, 17% fair, 20% failure. Livestock condition fair.

INDIANA: Temperatures averaged 10° or more above normal in much of the north and east. Average highs Statewide ranged from the mid 80's to around 90°. The week was another dry one. No rain at all fell over most of the

State. Some exceptions did exist. Nearly 1.00 in. of rain was reported at Butlerville and 0.28 in. both at Bedford and Terre Haute.

Fieldwork averaged 6.4 days. Topsoil and subsoil moisture short. Corn condition poor to fair. Corn 55% dented, 1982 85%, average 60%. Corn 97% in dough, 1982 100%, average 95%. Corn 5% mature, 1982 20%, average 15%. Soybeans 100% blooming, 1982 100%, average 100%. Soybeans 99% podding, 1982 99%, average 95%. Tobacco 8% harvested, 1982 25%, average 20%. Wheatland 27% plowed, 1982 30%, average 27%. Silos 20% filled, 1982 20%, average 15%. Pastures mostly poor.

IOWA: Continued hot with temperatures averaging 9 to 10° above normal. Moderate showers fell at midweek and more widely scattered showers at the weekend. The southwest and nearby counties and eastern most reported little rain. Thunderstorms with damaging hail and winds were reported the night of the 5th and 6th, mostly in west. Temperature extremes: 51° and 101°.

Days suitable 5.7. Corn in dough stage 94%; 71% last year; 87% normal; dent stage 68%; 37% last year; 57% normal; mature 14%; 7% last year; 8% normal. Soybeans with leaves turning 22%; 0% last year; 21% normal; leaves shedding 5%; 0% last year; 3% normal. Third crop alfalfa hay harvested 64%; 60% last year; 64% normal. Second crop clover hay harvested 96%; 100% last year; 100% normal. Topsoil moisture 65% short; 35% adequate. Subsoil moisture 67% short; 33% adequate.

KANSAS: Moisture averaged 0.10 in. northeast and 0.30 in. to 0.70 in. elsewhere. Temperatures averaged 80° northwest and 81° to 84° elsewhere. These were 6 to 9° above normal southeast third and 10° above normal west and north.

Corn 90% dough, 90% last year, 95% average; 45% dent, 55% last year, 65% average, mature 15%, 20% last year, 30% average. Sorghum 80% headed, 80% last year, 90% average; coloring 25%, 15% last year, 40% average; mature 3%, 2% last year, 5% average; harvested 0%, 0% last year, 1% average. Soybeans bloomed 98%, 90% last year, 98% average; podding 85%, 70% last year, 85% average; dropping leaves 20%, 5% last year, 5% average; harvested 0%, 0% last year, 0% average. Rain may help some milo, sorghum, soybeans, pasture. Too late for corn. Crops fair west, poor to fair central, near failure to fair east. Alfalfa 3rd cutting 90% complete, 90% last year, 90% average; 4th cutting 15% complete, 20% last year, 30% average. Range and pasture extreme drought to fair. Supplemental feed and hauling water to livestock necessary many areas. Soil moisture inadequate most areas. Days suitable for fieldwork: 6.5.

KENTUCKY: Another unseasonably hot dry week. Highs from mid 80's to low 90's with average temperatures 4 to 5° above normal. West no measurable rainfall. Rainfall was scattered over east and central sections with totals from 0.10 in. to slightly more than 1.00 in.

All days suitable for fieldwork. Soil moisture 65% critically short, 32% short, 3% adequate. Crops continued mostly poor to fair under drought stress. Burley tobacco cutting 18% complete, 47% last year, 39% average. Corn, 70% dented or beyond, 88% last year, 77% average, 95% corn dough or beyond, 100% last year and average; 14% corn mature. Silage harvest 25% complete. Soybeans 75% podded or podding, 88% last year, 80% average. Some pod filling poorly. Pastures dry. Farmers feeding hay and hauling water.

LOUISIANA: Rainfall averaged none to 0.96 in. Temperatures 3 to 6° above normal. High 102°, low 66°.

Soil moisture short except southeast Coastal Parishes adequate. Days suitable 6.3. Corn mature 98%, 97% 1982. Corn harvest 54%, 80% 1982, 69% average. Condition good. Cotton setting bolls 100%, 100% 1982. Cotton open bolls 12%, 46% 1982, 35% average. Condition fair. Rice headed 98%, 96% 1982, 97% average. Rice ripe 72%, 78% 1982, 85% average. Rice harvested 60%, 68% 1982, 75% average. Condition fair to good. Soybeans blooming 97%, 99% 1982, 98% average. Soybeans setting pods 88%, 91% 1982 and average. Soybeans turning color 8%, 18% 1982, 17% average. Soybeans shedding 2%, 7% 1982, condition fair. Sweetpotato harvest 36%, 33% 1982, 34% average. Condition good. Sorghum turning color 88%, 96% 1982, 91% average. Sorghum ripe 68%, 89% 1982, 67% average. Sorghum harvested 53%, 69% 1982, 43% average. Condition fair to good. Sugarcane planted 18%, 20% 1982, 13% average. Condition good. Vegetables rated fair. Pecans rated good. Hay final cutting 43%, 41% 1982. Pastures and livestock fair to good.

MARYLAND AND DELAWARE: Warmer than normal temperatures and some rain. Temperatures averaged 3° above normal in Delaware and 5 to 6° above normal in Maryland. Rainfall generally around 1.00 in. accumulation.

Maryland: Topsoil remains short of moisture. Days suitable for fieldwork: 6.5. Corn remains in poor condition. Soybeans improved to fair condition. Tobacco reported in poor to fair condition. Corn, silked 100%, same as last year, dough stage 90%, 85% in 1982, dented 65%, 70% last year, 20% mature, 25% in 1982. Corn harvest just starting. Soybeans, 95% blooming, same as last year, 80% setting pods, 80% in 1982, 10% turning, same as a year ago. Tobacco, 80% blooming, 60% topped, 35% harvested. Last year 30% harvested. Fruit harvest: Apples 20%, 25% last year, peaches 75%, 90%, a year ago. Vegetables harvested: Sweet corn 90%, 95% last year, watermelons, 60% cantaloupes, 85%, tomatoes, 75%. Third cutting of alfalfa 85% complete, 90% in 1982. Fourth cutting of alfalfa 35% complete, 30% last year. All other hay, 3rd cutting 80% complete, 70% a year ago. Fourth cutting, 10% complete, ahead of last year.

Delaware: Corn improved to poor to fair condition. Soybeans improved to fair to good condition. Days suitable for fieldwork: 5.0. Corn, 100% silked, same as 1982, 85% in dough stage, same as last year, 35% dented, 75% in 1982. No corn mature or harvested. Soybeans, 95% bloomed, same as 1982, 70% setting pods, 75% last year, 10% turning color, same as a year ago. Fruit harvested: Apples 30%, same as 1982, peaches 80%, 95% last year. Vegetables harvested: Sweet corn, 95%, 100% in 1982, watermelons, 80%, 95% last year, cantaloupes 90%, 100% a year ago, tomatoes 60%, 85% in 1982, cucumbers 85%, 100% last year, lima beans 55%, 40% a year ago. Third cutting of alfalfa and all other hay complete. Fourth cutting of alfalfa 20% complete, 25% last year. All other hay 10% cut, ahead of last year.

MICHIGAN: The hot and dry conditions continued. Temperatures averaged almost 8° above normal. No area averaged more than 0.50 in. of rain.

Statewide 6.0 days were suitable for fieldwork. Corn 95% in dough, 95% last year, 96% average. Corn 30% dented, 55% last year, 48% average. Oats 97% harvested, 95% last year, 96% average. Soybeans 100% blooming, 100% last year, 100% average. Soybeans 100% setting

Pods, 100% last year, 100% average. Soybeans 25% turning color, 40% last year, 31% average. Dry beans 80% turning color, 95% last year, 92% average. Second cut hay winding down, while third cut 35% complete, 40% last year, 31% average. Fruit and vegetable crops being stressed by continued hot weather. Harvest continues at a normal pace.

MINNESOTA: Very hot weather with some severe thunderstorms and tornadoes. Temperatures averaged 10 to 13° above normal. High: 102°, low: 50°. Precipitation averaged 0.09 to 0.43 in. below normal for the northern third, east central, and southeast but 0.26 to 0.72 in. above normal elsewhere. Greatest weekly total: 3.31 in.

Much hotter than normal weather continued to push row crops toward early maturity. Rains of 1.00 to 7.00 in. covered wide band from west central through southeast. Filling of soybean pods aided by rains but benefit to corn was minimal. Windstorms caused heavy damage to corn borer infested stands of field corn in west central. Topsoil still dry in southwest and part of central. Topsoil moisture: 10% very short, 20% short, 64% adequate, 6% surplus. Days suitable for fieldwork: 4.9. Field corn 96% dough, 1982 84%, normal 83%. Field corn 67% dent, 1982 38%, normal 47%. Field corn 6% mature, 1982 1%, normal 3%. Soybeans turning 41%, 1982 30%, normal 32%. Soybeans shedding leaves 5%, 1982 5%, normal 6%. Spring wheat harvested 97%, 1982 92%, normal 93%.

MISSISSIPPI: Temperatures 5 to 10° above normal. Extremes 60 and 99°. Scattered rainfall, mostly in the southeast. Many locations in the northern third of the State received no measurable rain.

Soil moisture very short in northern half of State, short to very short in southern half. Fieldwork 6.4 days suitable, 6.0 1982, 5.1 average. Soybeans 92% blooming, 100% 1982 and average; 64% podding, 95% 1982, 91% average; crop in fair to poor condition. Cotton fair; bolls open 33%, 70% 1982, 53% average. Rice fair; 93% headed, 97% last year, 95% average; 4% harvested, 8% 1982, 12% average. Sorghum 19% harvested, 29% 1982, 21% average. Corn fair; 17% harvested, 30% 1982, 25% average. Hay 87% harvested, sorghum silage 63%, peanuts 41%, watermelon 91%, corn silage 84%, sweetpotatoes 17%. Pastures poor in north, fair in south.

MISSOURI: Temperatures remained hot, averaging 6 to 8° above normal. Scattered thundershowers early in the week brought an average of 0.50 to 0.75 in. in the north and west sections of the State. The southeast section averaged less than 0.25 in.

Days suitable for fieldwork: 6.0. Corn 89% dented, 71% last year and 71% normal. Corn 39% mature, 24% last year and 24% normal. Corn 7% harvested, 2% last year and 6% normal. Grain sorghum 90% headed, 90% last year and 91% normal. Sorghum 26% mature, 32% last year and 26% normal. Soybeans 89% setting pods, 78% last year and 81% normal. Bean 19% coloring, 5% last year and 8% normal. Third cutting alfalfa hay 70% harvested, 73% last year and 81% normal. Cotton 33% with open bolls, 29% last year and 28% normal. Cotton condition 92% poor and 8% fair. Corn condition 88% poor, 11% fair and 1% good. Soybean condition 70% poor and 30% fair. Sorghum condition 61% poor and 39% fair. Pasture condition 99% poor and 1% fair. Topsoil moisture supplies 99% short and 1% adequate.

MONTANA: Hot week again. Temperatures averaged 5° above normal in west and southwest to near

15° above in northeast and southeast. Hottest temperatures first of week with 10 to 20° cooler at end of week. No precipitation over northeast and southeast, light to moderate elsewhere late in week.

Soil moisture short. Harvest progress good. Harvest percent this year, last year, normal: Winter wheat 95, 85, 85; spring wheat 95, 50, 45; barley 80, 60, 50; oats 90, 65, 55. Winter wheat seeding delayed because of warm and dry soils plus grasshoppers this year seeding less than 5%, last year 0%, normal 5%. Fieldwork, days suitable 6.6. Range feed and stock water supplies short to adequate. Cattle and sheep moved from summer ranges 10%.

NEBRASKA: Sunny and hot with temperatures 8 to 12° above normal. Widely scattered thunderstorms over weekend, amounts light.

Corn mostly good to fair. Dough 90%, 75% last year and 85% average. Dent 50%, 25% and 45%. Silage cutting underway. Soybeans fair. Turning color 15%, 4% and 20%. Sorghum fair. Turning color 50%, 10% and 45%. Winter wheat sown 3%, 5% and 3%. Third cutting of alfalfa 80%, 75% and 75%. Topsoil moisture short. Subsoil moisture mostly short to adequate. Days suitable for fieldwork 6.7.

NEVADA: The week began with fair skies across State. Temperatures few degrees above normal. Low pressure system off California coast moved inland pushing temperatures below normal at midweek. With passage of low skies cleared and temperatures recovered to normal slightly above. Precipitation was experienced in most northern areas of State. In extreme south, Las Vegas received 0.01 in., while south central area failed to receive a trace.

Rain in northern areas slowed small grain and hay harvest. Potatoes continue to progress normally. Digging expected to begin in the next week. Alfalfa seed harvest progressing.

NEW ENGLAND: Temperatures were near normal at beginning of week, but warmer temperatures in the 90's ended the week. Frontal system crossing New England dropped between 0.50 to 2.00 in. of rain.

Soil moisture supplies short to adequate, and 5.5 days suitable for fieldwork. Silage corn chopping began. Second cut hay 90% harvested, third cut hay 45% completed. Maine potato farmers topkilling and other New England potato farmers harvesting small sized potatoes. Potato quality good.

NEW JERSEY: Temperatures averaged 5° above normal. Extremes 48° on the 2nd and 95° on the 5th. Weekly rainfall averaged 0.21 in. north, 0.50 in. central and 0.11 in. south. The heaviest 24-hour total 0.72 in. on the 30th to 31st. Estimated soil moisture in percent of field capacity, averaged 74% north, 78% central and 45% south. Four inch soil temperatures today averaged 72° north, 76° central and 79° south.

Fieldwork: Summer vegetable harvest continues to decline. Irish potato digging active. Scattered sweetpotato harvest beginning. Peach harvest at peak. Many varieties being picked at present. Fall apples coloring well. Hay making continues. All crops benefited from recent rains.

NEW MEXICO: Average temperatures 5 to 10° above normal most areas. Minimum temperature 44° central highlands. Maximum temperature 103°, southeastern Plains and southern Desert. Rainfall amounts generally less than 0.25 in. Few locations west and north measured 0.50 to 0.75 in.

Cotton fair to good, 1 to 2 weeks behind normal. Cotton open bolls: current 6%; last year, 20%; average, 12%. Alfalfa good to excellent, 90% third cutting complete, 50% 4th cutting. Irrigated grain sorghum good, 95% headed. Dryland sorghum poor to fair. Corn rated good, 90% dough. Chile harvest continue. Peanuts rated good. Potato harvest ending. Pecans, apples behind normal growth stage. Cattle and sheep rated good. Heavy supplemental feeding. Ranges generally poor all areas except northwest and mountains.

NEW YORK: Temperatures above average, rainfall near normal.

Oats for grain 82% harvested, 85% 1982, 87% average. Early corn denting. Second cutting alfalfa 93% done, 90% 1982, 91% average. Third cutting alfalfa 37% cut, 32% 1982, 33% average. Third cutting better than second. Dry bean development variable. Apple crop condition good, rain helped. Early variety apple harvest winding down. Peach, pear harvests nearly complete. Harvest of Aurora wine grapes and early table varieties begun. Overall grape crop condition good. Onion, sweet corn, snap bean, cabbage, beet harvests in progress. Hot weather, rain improved growth of vegetable crops.

NORTH CAROLINA: Temperatures 2 to 4° above normal. Precipitation variable, none in northwest Piedmont 1.95 in. at Smithfield.

Soil moisture: 35% very short, 45% short, 20% adequate. Days suitable for fieldwork: 5.9. Condition: Tobacco 16% poor, 77% fair, 7% good. Corn: 61% poor, 34% fair, 5% good. Cotton: 22% poor, 74% fair, 4% good. Peanuts: 22% poor, 71% fair, 7% good. Soybeans: 42% poor, 47% fair, 11% good. Sorghum: 55% poor, 31% fair, 14% good. Apples: 11% poor, 63% fair, 26% good. Sweetpotatoes: 19% poor, 73% fair, 8% good. Phenological stages: Cotton setting bolls: 98%, 1982 100%, average 100%, cotton opening bolls: 40%, 1982 34%, average 41%. Corn soft-dough: 99%, 1982 100%, average 99%. Corn dent 97%, 94% 1982, average 96%. Corn mature: 81%, 1982 86%, average 80%. Soybeans blooming: 87%, 1982 95%, average 92%. Setting pods: 66%, 1982 78%, average 74%. Harvests: flue-tobacco: 70%, 89% 1982, average 81%. Corn for grain: 11%, 1982 15%, average 20%. Corn for silage: 64%, 1982 62%, average 62%. Apples: 13%, 1982 40%, average 28%. Burley tobacco: 5%, 1982 15%, average 28%. Major farm activities: Flue-cured tobacco irrigation, harvest and marketing, scouting and spraying soybeans, corn for grain harvest, corn for silage cutting, haymaking, tilling PIK acreage and planting fall vegetables.

NORTH DAKOTA: Temperatures averaged 11 to 15° above normal. Twenty of 34 stations recorded temperatures over 100° or more. Hottest temperature recorded was 105° south central on 1st and central on 2nd. Week ended with a cool high pressure system from the Pacific northwest moving into State. The high cooled nighttime temperatures central and south central to 48° on 3rd. Scattered thunderstorms occurred across State during week. Rainfall spotty with only southeast and east central receiving more precipitation than normal. Average precipitation ranged from 0.46 in. below normal central to 0.21 in. above normal southeast.

Small grain harvest nearly complete as hot, dry weather pushed progress and conclusion at record pace, but row crops still suffer from lack of adequate moisture. Topsoil moisture deteriorated with 80% of the State short. Small grain harvest at least two weeks ahead of normal. Average of 6.7 days suitable for field-

work. The percent combined with last year and average: Hard red spring wheat 96, 73, 70; durum 92, 63, 58; barley 99, 92, 85; oats 98, 85, 82. Row crops mostly fair to good condition. Development mostly near or ahead of normal. Stages of development with progress this year, last year and average: Sunflower bracts yellow 57, 26, 28; corn ripe 16, 1, 3; potatoes dug 3, 4, 4; flax combined 47, 21, 21; dry edible beans combined 6, 9, 7; soybeans mature 8, 9, 11.

OHIO: Temperatures 4 to 10° above normal. Highs averaged mid 80's to near 90. Precipitation light. Average less than 0.10 in. Moisture levels still critically short. Corn maturing rapidly, condition fair. Soybeans, alfalfa, tobacco fair. Few insect problems reported. Soybeans blooming 100%, 100% 1982, 100% average; pods setting 100%, 100% 1982, 100% average; pods set, leaves green 85%, 95% 1982, 80%; leaves yellow 25%, 45% 1982, 25% average. Corn dough 100%, 100% 1982, 100% average; dented 70%, 85% 1982, 55% average; silage harvested 25%, 35% 1982, 15% average. Days favorable: 6.0. Pasture condition poor to fair. Soil moisture 88% short, 12% adequate.

OKLAHOMA: Average temperatures ranged from 4° above normal south central and southeast to 7° above normal Panhandle. Precipitation ranged from zero south central, southwest and west central to 0.68 in. Panhandle.

Hot, dry weather continued to stifle crop growth and development. Crop prospects greatly reduced on cotton and soybeans due to prolonged drought conditions. Grain sorghum in critical development stage and in dire need of moisture. Pastures and ranges continued to deteriorate. Cattle remain in good to fair condition. Sorghum headed: 95%, 85% 1982, 97% average; coloring 40%, 55% 1982, 80% average. Cotton setting bolls: 99%, 85% 1982, 95% average; open bolls 0%, 0% 1982, 5% average.

OREGON: Temperatures were below normal in the south; well above normal north. Wet weather prevailed most of the week. Rainfall in western portion ranged from 6.00 in. on the southern coast to 3.00 in. in Willamette Valley. East of the Cascades rainfall ranged from 0.10 to 0.70 in.

Winter wheat harvest virtually complete, except at the higher elevations. Preparation for planting of 1984 crop continues; summer fallow receiving final cultivation. Harvesting of bentgrass and red clover hampered by heavy rains; field burning behind schedule. Haying activities continue throughout east. Mint harvest well underway. Bartlett pear harvest winding down in Hood River Valley; anjou picking beginning in lower valley. Elberta peaches and Italian prunes to start this week. Blueberries and blackberries complete; fall ripening red raspberries starting. Cranberry harvest to begin by the end of September. Filbert harvest expected to start by end of month. Harvesting of onions continues. Sweet corn harvest in full swing. Snap beans finished. Norgold potato harvest winding down in Hermiston area; digging of russets getting underway. Potatoes just starting in Klamath Basin. Livestock, range and pasture condition good to excellent.

PENNSYLVANIA: Showers and thunderstorms during the first half of the week brought the State average precipitation to 0.82 in., which was only 0.03 in. below normal. There was no clear cut pattern to the rain. Temperatures continued well above normal, however, there

was a definite drop from previous week. The State average temperature was 71°, 5° above normal. Extremes were 92 and 44°.

Days suitable: 5.0. Moisture short to adequate. Activities: Plowing; baling straw; seeding barley; seeding alfalfa; making hay; and harvesting tobacco, corn silage, green chop, potatoes, cabbage, tomatoes, sweet corn, cantaloupes, apples, peaches, and grapes. Tobacco 30% harvested, last year 51%. Potatoes 44% harvested, last year 37% harvested. Corn silage 15% harvested, last year 7%. Corn for grain 86% in dough or past and 27% dented; last year 84% in dough or past and 37% dented; average 85% in dough or past and 36% dented. Fall plowing 34% complete; last year 41% complete; average 36%. Barley 5% planted, last year 8%. Wheat less than 5% planted, last year 8%. Third crop alfalfa 68% harvested, last year 54%. Fourth crop alfalfa 7% harvested, last year 10%. Second cutting clo-tim 88% harvested, last year 89%. Quality of hay made fair to good. Feed from pastures below average to average.

PUERTO RICO: Island average rainfall 1.27 in. or 0.49 in. below normal. Highest weekly total 6.22 in. Highest 24-hour total 2.80 in. Temperatures averaged about 82 to 81° on Coasts and 75 to 73° Interior Divisions. Mean station temperature ranged from 84.8 to 68.5°. Extremes 92 and 58°.

SOUTH CAROLINA: Hot at first, then cooler than usual, finally near or above normal. Much needed rain fell Statewide at midweek, heaviest in northwest and near coast.

Soil moisture varied, averaging short, 5.3 days for fieldwork. Corn 38% harvested, much being salvaged as silage, 57% year ago, 51% average; condition poor to fair. Cotton 62% open bolls, 55% last year, 52% average; dry, hot stress causing squares, small bolls to shed; condition generally poor. Soybean condition poor to fair, pods not doing well, some shedding pods; some cut for hay or abandoned; blooming at 94%, 97% last year, 96% average; 69% setting pods, 85% last year, 84% average. Tobacco 85% harvested, behind 98% last year, 94 average. Apple condition fair with 22% harvested behind 53% year ago, 42% average; rains could help sizing. Pecan crop potential could improve if rains continue. Fall vegetables in fair condition. Pastures condition poor, rains should relieve stress.

SOUTH DAKOTA: Average temperatures 8 to 16° above normal. Extremes: 108 and 42°. Much of the State was dry for the week. Mostly light 1.00 in. precipitation in the northeast and east central districts only.

Woolly bear caterpillars continued to eat their way through soybean and sunflower fields in the east. First outbreaks of economic levels for this pest in the past 21 years. Dry weather and grasshoppers have taken second cut of alfalfa over much of the west. Row crops mostly fair condition. Major activities were winter grain seeding, cutting corn for silage, fall plowing, spraying for caterpillars, and haying. Days suitable for fieldwork: 6.0. Spring wheat harvested 100%, 1982 100%, average 98%. Sorghum headed 90%, 1982 98%, average 96%. Sorghum coloring 49%, 1982 27%, average 49%. Corn dough 79%, 1982 72%, average 85%. Corn dent 49%, 1982 29%, average 53%.

TENNESSEE: Temperatures averaged closer to normal last week but rainfall continued to be limited, giving no relief to drought stressed crops.

Days suitable for fieldwork: 5.8. Corn dented 93%, 1982 95%, average 92%; mature 33%, 1982 33%, average 39%; harvested 5%, 1982 2%, average 4%. Cotton open bolls 22%, 1982 22%, average 13%. Soybeans blooming 95%, 1982 100%, average 99%; setting pods 92%, 1982 100%, average 82%. Tobacco harvested: Burley 40%, 1982 58%, average 58%; dark-fired 24%, 1982 46%, average 53%; dark air-cured 26%, 1982 47%, average 49%. Wheat sown 1%, 1982 3%, average 5%. Pastures poor. Livestock being feed or sold.

TEXAS: Fair to partly cloudy skies, hot temperatures. Widely scattered showers, thunderstorms over central, eastern portions during week but amounts light. Temperatures averaged about 6° warmer than normal across western, northern half of Texas, remainder about 2 to 4° warmer.

Crops: The State continued to suffer through hot, dry weather. Dryland crop becoming severely stressed. Land preparation for small grains continued, some producers beginning to "dust" in fields. Harvest, other fieldwork progressed well. Cotton continues to develop rapidly. Moisture shortages causing increase in boll dropage. Fruiting, boll development hampered, yields affected. The open weather allowed harvest to progress rapidly, still slightly behind previous years. By end of week, harvest moved north to Blacklands. Currently condition is 61% of normal compared with 60% a year ago. About 3% excellent, 19% good, 63% fair and 15% poor. Sorghum harvest continued at rapid pace. Harvest active across North Texas into Low Plains. Dryland fields becoming severely stressed. Irrigated fields making excellent progress. Insects, insect damage light. Overall condition 94% of normal compared with 92% a year ago. Reported condition 4% excellent, 21% good, 63% fair and 12% poor. Corn harvest moved rapidly, fields maturing well. Yields remain good. Plains, corn developing well, harvest expected in full swing later this month. Peanuts making steady growth, irrigated fields in excellent condition. Dryland fields need moisture. Rice harvest continued, first crop cutting nearly complete. Yields good. Soybeans progressing well, showing good growth, development.

Cotton setting bolls 100%, 96% 1982, 99% average; open bolls 14%, 18% 1982, 24% average; harvested 10%, 13% 1982, 12% average. Rice harvested 88%, 92% 1982, 97% average. Sorghum headed 95%, 99% 1982, 99% average; turing color 73%, 75% 1982, 79% average; mature 65%, 68% 1982, 70% average; harvest for grain 62%, 64% 1982, 66% average. Wheat planted all purposes 0%, 4% 1982, 7% average. Corn harvested for grain 55%, 42% 1982, 40% average. Peanuts harvested 1%, 8% 1982, 11% average. Sunflowers harvested 0%, 4% 1982, 4% average. Oats planted for all purposes 0%, 1% 1982, 4% average.

Commercial vegetables: Rio Grande Valley, land preparation, irrigation operation continued. Some seeding of fall vegetables. Citrus continues to develop well. East Texas, showers helpful, harvest of melons, sweetpotatoes continued. Sweetpotato quality, yields good. Trans-Pecos region, land preparation continued. Harvest of Chili peppers, cantaloupes continued. Cucumbers developing well. Plains potato harvest complete, onion harvest winding up. Carrots continue good growth. Pecans mostly in water stage, developing rapidly. Moisture needed to aid filling.

Range and livestock: Range, pasture condition continued to deteriorate. Coast, east, northeast Texas remained only areas where moisture sufficient for growth of grasses.

Grazing in all but these areas virtually non-existent. Stock tanks becoming dangerously low. Livestock remain in generally good condition, supplemental feeding increasing.

UTAH: Scattered thunderstorms over State. Precipitation accumulations moderate to heavy northern mountains, light to moderate rest of State. Temperatures averaged 5° above normal.

Spring wheat and barley harvest made good progress with 6.1 days suitable for fieldwork. Spring wheat 73% harvested, barley 75%, considerable hay loss Statewide due to continued rain showers. Third crop harvest just starting. Tonnage may be light because of the delayed season. Late fruit harvest active. Peaches 23% picked, pears 18%, and apples 6%. Onion digging will begin September 8th, an average yield is expected.

VIRGINIA: Temperatures Statewide were in the upper 80's to the low 90's averaging 2 to 7° above normal. Precipitation was in the form of thunderstorms. Amounts generally ranged from 0.50 to 1.00 in. Holland in the southeast reported 4.97 in. Temperatures continued very warm.

Topsoil moisture improved with increased shower and thunderstorm activity in east, southeast, southwest. Topsoil moisture rated 88% short, 12% adequate. Days suitable for fieldwork: 5.7. Corn condition still very poor. Percent in dough 93, 95% in 1982 and average; in dent 76%, 80% in 1982, 81% average; mature 51%, 48% in 1982, 51% average. Harvest active with some silage cut from grain acres. Grain harvest progressed to 9% complete, 8% in 1982, 10% average. Harvest for silage 51% complete, 52% last year, 39% average. Soybean condition declined, still rated poor. Spraying for corn ear worm continues, bloom and pods still being aborted. Percent in or beyond bloom 92, 99% last year; setting pods 70%, 83% last year. Flue pulling 44% complete, 74% last year, 60% average; burley 13% cut, 42% in 1982, 34% average; fire 55% harvested, 83% in 1982, 57% average; sun 38% harvested, 58% last year, 48% average. Peanut condition dropped to poor. Spraying for leaf spot and spider mites active, some corn ear worm spraying. Livestock feed continues short.

WASHINGTON: Wet week for west. Northern half of Puget Sound area recorded nearly ten times normal weekly amount of rainfall this period. Yearly totals for rainfall well above yearly averages both east and west. Surprisingly, coastal stations reported yearly totals near normals, but many western interior sites reported totals more than 110% of average yearly amounts. East also significantly above September through August normals with many reports exceeding averages by 50%.

Wheat and barley harvest essentially finished with general clean up underway. Occasional showers slowed third cutting of alfalfa hay. Harvest of alfalfa and red clover seed, most vegetable seeds, continues. Harvest of beet seed to begin soon. Potato digging continues. Mint and hop harvest well underway. Tree fruit in good condition with excellent quality. Bartlett pear harvest winding down and completed

some areas. Harvest of D'Anjou pears and early apples getting underway. Plum harvest continues full swing, while peach harvest nearing completion. Westside, blueberry harvest winding down. New strawberry plantings look good. Harvest of carrots, green beans, sweet corn, broccoli, cauliflower, and tomatoes continues. Cucumber harvest winding down and processing pea harvest finished most areas. Corn earworm a problem for Spokane County. Livestock in good shape. Pastures and ranges good condition as ideal weather continues. Calving in progress. Winter wheat harvested: 98%, 95% 1982, 91% average.

WEST VIRGINIA: Temperatures averaged 2 to 5° above normal. Low 44°, high 96°. Rainfall averaged below normal with some heavy localized thunderstorms causing heavy rains in some areas. Range: Trace to 3.53 in.

Soil moisture remains very short to short across the State. Days worked averaged 5.3. Main activities: Hay harvesting, pasture clipping, general maintenance. Oats were in fair to good condition with 97% harvested at 84% of normal. The oat harvest was complete at this time last year. Corn was in fair to poor condition with 3% pre-silked, 44% silked and 53% in dough stage; 4%, 29% and 67% in 1982. Tobacco was in fair to good condition with 90% topped, 19% harvested at 70% of normal; 44% harvested in 1982. Pasture and hay in fair to poor condition. Second cutting of hay 85% complete at 70% of normal; 79% and 82% in 1982. Fruit in fair condition. Peaches 71% harvested at 82% of normal; 89% harvested in 1982. Gardens in fair to poor condition. Extremely dry conditions continue across the State.

WISCONSIN: Highest temperature 94° at Iola, Racine and Coloma on 29th. Coolest reading 46° at Lake Thompson on early 1st. Scattered showers delivered 1.00 in. or more across north. Cooler temperatures moved in during midweek. By 3rd and 4th very warm and humid weather returned with showers.

Rains aid crops. Corn yields variable: 78% dough stage; acreage denting 49%, 27% last year, 48% average. As a result of hot, dry weather 3% of the crop cut as silage. Cutting of hay, third crop 29% complete same pace as 1982 at this time. Oats 95% harvested. Pastures improving to 83% of normal.

WYOMING: High pressure system caused temperatures to be above normal and precipitation below normal.

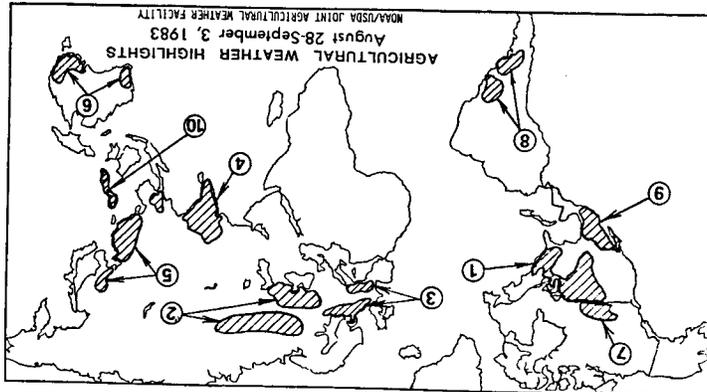
Topsoil moisture adequate 57% of State. Days suitable for fieldwork: 7.0. 1984 winter wheat crop seeded: 15%; normally, 40%. 1983 winter wheat harvest wind-up stages. Barley: 20% mature; 75% harvested. Normally, 77% harvested. Spring wheat: 35% mature; 60% harvested. Normally, 77% harvested. Oats: 35% mature; 55% harvested. Normally, 71% harvested. Corn: Milked 25%; dough 50%; dented 25%. Dry beans: 25% windrowed; few combined. Alfalfa second cutting 70% complete; third cutting underway few areas. Other hay harvest 85% complete. Current range conditions, fall grazing prospects, livestock all mostly good.

National Weather Summary (continued from front cover)

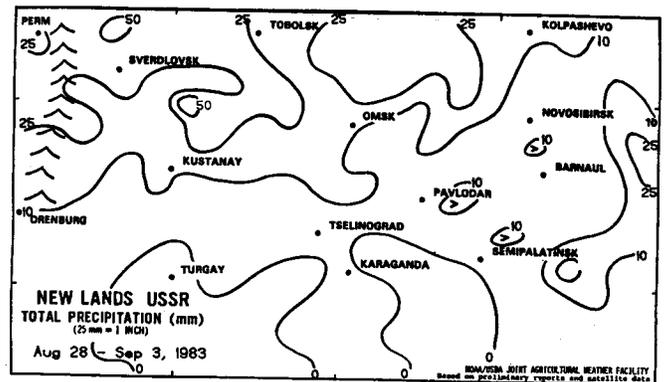
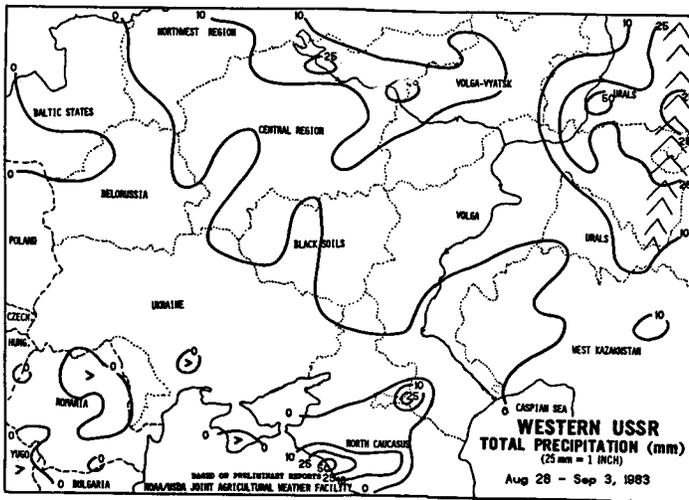
cooler, but record-high readings covered the central and southern Plains. Temperatures in the nineties reached eastward to Indiana. Showers tapered off in the Southeast, but some moderate amounts fell in the southern slopes of the Appalachians.

International Weather and Crop Summary

August 28 to September 3



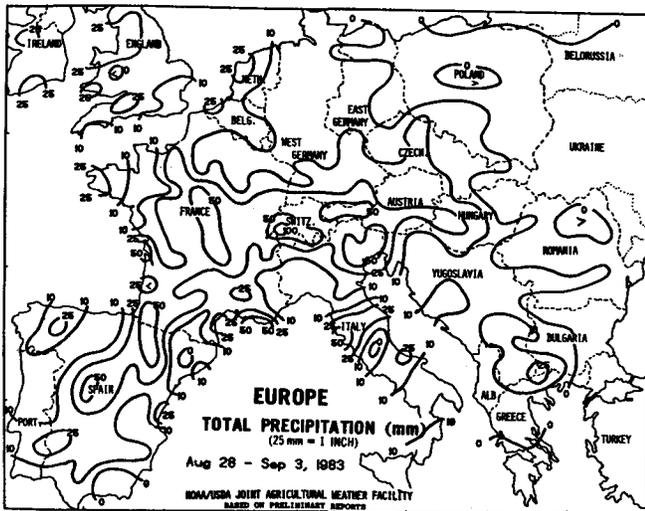
1. UNITED STATES ... Scattered showers provide little help to crops in the western Corn Belt, but heavier showers over the eastern portions and in the Southeast benefit soybeans. Unusually hot, dry weather over the Great Plains delays planting of winter wheat and further deteriorates pastures and lowers stock water supplies.
2. USSR ... Wet weather in northern crop areas provides favorable topsoil moisture for winter grain planting in European crop areas but further delays the spring grain harvest in the New Lands. Additional showers are needed to ensure proper germination in south European USSR.
3. EUROPE ... Wet weather in southern France and northern Italy is unfavorable for maturing crops. Rain is needed over much of northern Europe to replenish topsoil moisture and improve winter grain planting conditions.
4. SOUTH ASIA ... Moderate monsoon rains benefit most rice areas this week. Recent dry weather is unfavorable for cotton and groundnuts in the reproductive stage.
5. EASTERN ASIA ... Variable precipitation in southern China benefits coastal rice areas. Dry weather favors portions of cotton and corn areas. Moderate rain slows maturing northeastern corn and soybeans.
6. AUSTRALIA ... Rain benefits vegetative growth of wheat in Western Australia, South Australia, and Victoria, while mostly dry weather covers the eastern grain area. The wheat crop is generally in good condition.
7. CANADA ... Hot, dry weather accelerates crop maturing and aids harvesting of grains and oilseeds throughout the Prairies.
8. SOUTH AMERICA ... Widespread rain aids vegetative growth of wheat and ends the long dry spell in Argentina. Dry, mild weather in Brazil helps wheat growth and citrus/coffee harvest.
9. MEXICO ... Light rains help immature crops in the southern Plateau corn belt and replenish some western reservoirs. Rains from Tropical System Barry provide temporary relief to northeastern citrus.
10. SOUTHEAST ASIA ... Rain continues in much of Thailand, favoring late-planted rice. Dry weather benefits the central corn harvest.



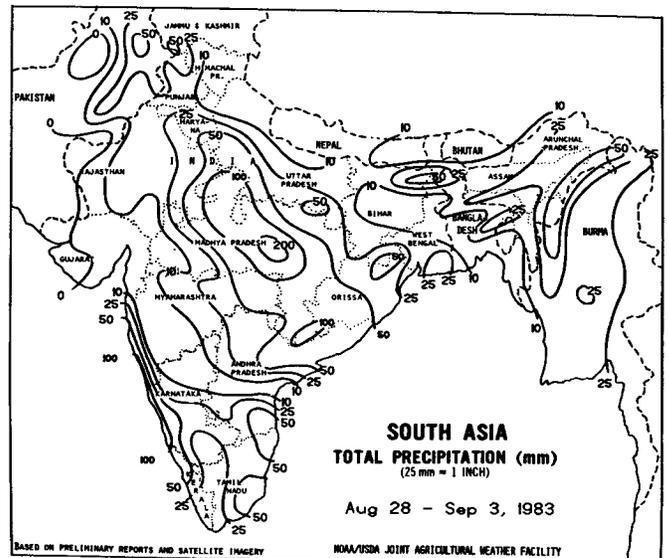
USSR...A weak cold front moved through Western USSR early in the week. Most of the precipitation associated with the frontal system was confined to crop areas in the north-central and northeastern portion of the region. As a result, topsoil moisture for winter grain planting is favorable in these areas. Across the south, mostly dry weather continued the pattern since mid-August, favoring grain maturation and harvest activity. Winter wheat planting normally begins in the south in early September, and additional showers are needed to replenish topsoil moisture for emergence and good early establishment. Winter wheat can be planted as late as early October, but after early October, planting based on normal weather conditions may not ensure proper plant

establishment before dormancy, making the crop more vulnerable to winterkill.

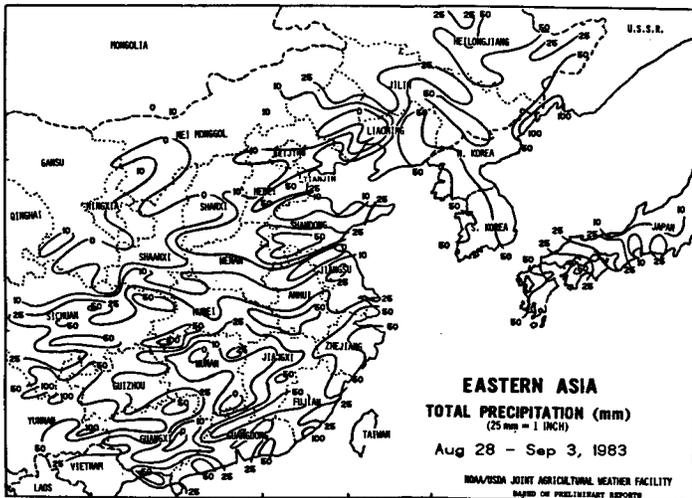
In the New Lands, a series of storm systems moved through the north, bringing widespread rain. The rain probably further delayed the spring grain harvest. In addition, the storm systems ushered in cooler air, especially in the west where scattered frost should have occurred late in the week. In the south and east, the storm systems were too weak to produce much precipitation. As a result, harvest activity in these areas should have progressed with few delays. Harvest activity normally ends over the entire region by the end of September.



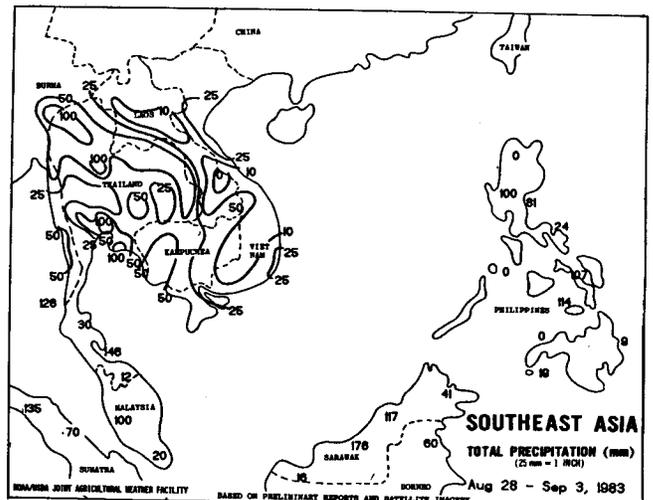
EUROPE... Substantial rains fell over much of France, Spain, and northern Italy. Although the rain in these areas improved soil moisture conditions, persistent showers in southern France and northern Italy are likely unfavorable for the corn crop which is normally maturing. Dry weather continued over northern West Germany, East Germany, and Poland, aiding harvest activity. However, winter grain planting begins in these areas in early September, and rain is needed to replenish topsoil moisture required for germination and early plant establishment. Dry weather also covered much of the southeast, aiding harvest activity. Winter grain in the southeast normally is planted in October. Weekly temperatures were near normal in the west and above normal in the east.



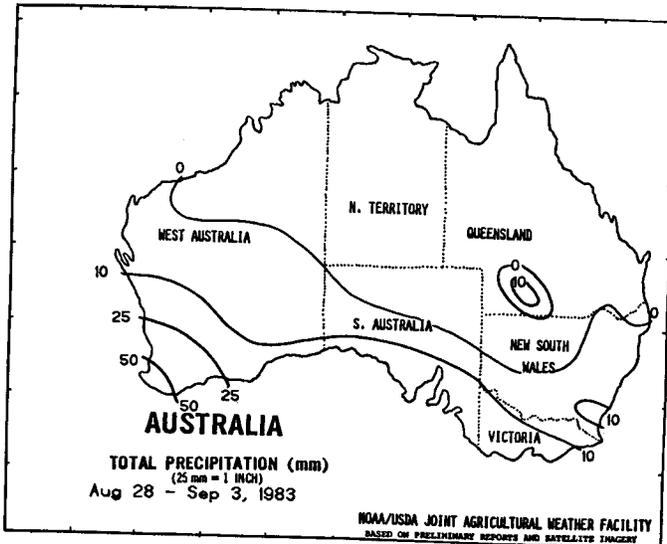
SOUTH ASIA... Monsoon rains continued at a moderate intensity over much of India this week. A band of moderate to heavy precipitation stretched from Jammu and Kashmir in the north, southeastward to Orissa. The moisture mainly benefited autumn rice areas, while winter rice areas received light to moderate rain. Autumn rice is in the heading stage later than normal because of spring planting delays. Winter rice is nearing the heading stage and will require continued rain for good yield prospects. Precipitation on the west coast continued to favor autumn rice. In contrast, dry weather for the second week covered the cotton and groundnut area in Gujarat, western Madhya Pradesh, and central Myaharashtra. The crops are in the reproductive stage and will require more precipitation. Temperatures continued favorable in nearly all crop areas in India.



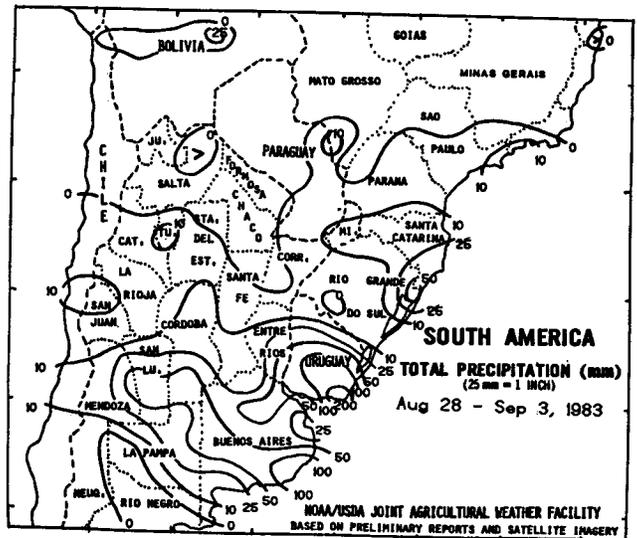
EASTERN ASIA... Variable precipitation continued in rice areas of southern China this week. Moderate rain in Sichuan was unfavorable for harvesting intermediate rice and maturing of the late single-crop rice. Relatively dry weather in Hunan and Guangxi was unfavorable for late double-crop rice entering the heading stage. However, moderate rain benefited late double-crop rice in Guangdong, Fujian, and Zhejiang. Dry weather in northwestern China through parts of the North China Plain benefited maturing cotton, corn, and soybeans. Precipitation in Shandong and Hebei helped late soybeans in the reproductive stage but slowed field work for cotton and corn. Precipitation returned to Manchuria following a favorable dry period during corn and soybean maturation. Continued rain would be unfavorable for the area. Temperatures were above normal in China this week, but not extremely unfavorable.



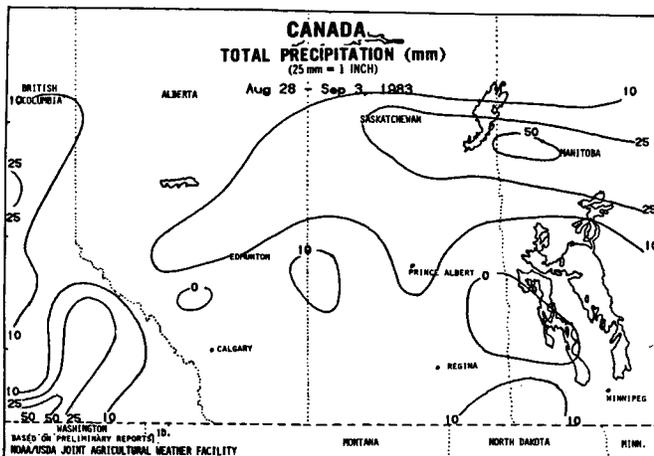
SOUTHEAST ASIA... Moderate to heavy precipitation fell in north and south-central Thailand this week, while the remainder of Indochina received mostly light to moderate amounts. The moisture was unfavorable for maturing rice but benefited late-planted rice now in the filling stage. Near-normal temperatures favored Thai crop areas this week. Relatively dry weather favored the central corn crop harvest. Scattered showers fell throughout the Philippines this week. Central Luzon was relatively dry following earlier excessive rains. Rice, in the vegetative stage, will need more moisture later during the reproductive stage. Temperatures were seasonable in most areas, but soil moisture is still insufficient in much of the southern islands.



AUSTRALIA...Substantial rain (greater than 20mm) fell over much of Western Australia's crop area from a storm system which moved southeastward off the southwestern coast of the continent. Lighter showers fell over southern crop areas of South Australia and Victoria as the storm passed to the south. Mostly dry weather covered the wheat areas of New South Wales and Queensland. Weekly temperatures were somewhat above average, favoring more rapid vegetative growth as the spring temperatures rise. Presently, crop conditions are rated good throughout the grain belt, although widespread spraying of fungicides has been reported in New South Wales and Victoria to contend with stripe rust disease in wheat. In Queensland, some early harvesting of wheat has occurred in the northernmost portion of the wheat area but, in general, the wheat crop is 2 to 3 weeks behind average development. Thus, the Queensland harvest is not expected to begin in earnest until late September. The major portion of the wheat crop is still in vegetative growth stages, and weather conditions will affect yield prospects during the crucial growth stages in the next 2 months.

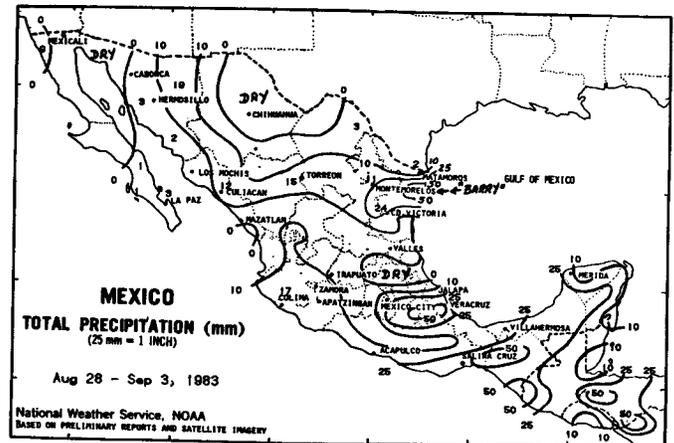


SOUTH AMERICA...Widespread rain covered Argentina's wheat areas for the second consecutive week, bringing an end to the long dry spell during the planting season. Topsoil moisture supplies have improved considerably, aiding early vegetative growth of the wheat crop. Near- to slightly above-average temperatures also favored early crop development. Wheat yield prospects have substantially improved following the recent rain; however, weather conditions during the next 2 months will determine the final yield outcome. The recent moisture also improved preplanting conditions for corn and other spring-sown crops. Extremely heavy rain fell in southern Uruguay, but mostly dry weather covered Brazil's wheat and coffee areas. The dryness in recent weeks over southern Brazil highly benefited agricultural activities following the earlier inundating rains. Mild weather promoted wheat development, pushing the crop into the reproductive cycle and early grain-formation period. The dryness in Sao Paulo aided citrus and coffee harvesting.



CANADA...The grain and oilseed harvests progressed rapidly throughout the Prairie Provinces. Rainfall was mostly light, except for a few showers which produced over 10mm in both the southeastern and northwestern portions of the grain belt. Heavier showers fell to the north of the major crop areas. Weekly temperatures averaged well above normal with maximum

(continued on back cover)



MEXICO...Minimal Hurricane Barry weakened rapidly upon entering northeastern Mexico at the beginning of the week. It moved through the sparsely populated coastal rangeland south of Matamoros, quickly losing its strong winds and heavy rains. By the time the remnants of the storm arrived over the Montemorelos citrus orchards, only light to moderate rains were falling, but these gave temporary relief to the persistent dryness. Light rains also fell across the southern Plateau corn belt and northwestern mountain watersheds. Amounts were generally subnormal but were still

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temperatures pushing into the midthirties ($^{\circ}\text{C}$) (midnineties ($^{\circ}\text{F}$)) during the latter half of the week. These excessively high temperatures continued to accelerate development of maturing crops and, in combination with the mostly dry weather, aided harvesting. By the weekend, a cold front pushed through the Prairies bringing more seasonal temperatures to the region. Crops are maturing ahead of average, and harvesting is well ahead of last year's pace in Saskatchewan and Alberta. Crops have suffered some yield reductions from the intense heat and dry weather during the latter portion of the growing season; however, the quality of harvested grains, as measured by the protein content, should be very good.

Mexico (continued from p. 23)

helpful to immature crops and in replenishing reservoirs. Most other northern areas remained dry, stressing orchards and livestock but aiding harvest. However, localized heavy showers drenched parts of southern Mexico and extended into Central America.

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