

WEEKLY WEATHER AND CROP BULLETIN

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

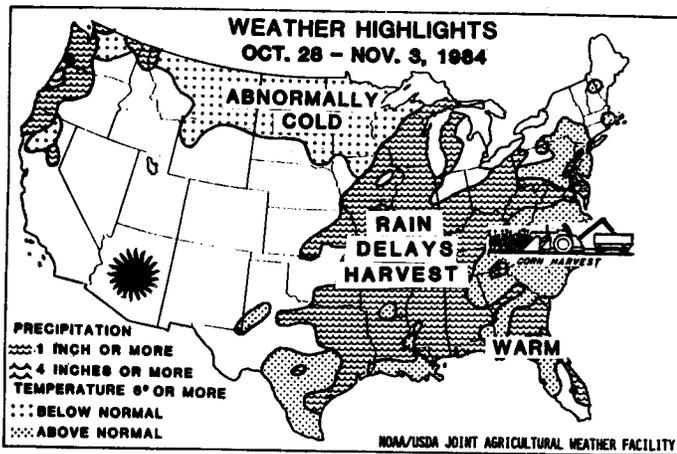
U.S. DEPARTMENT OF AGRICULTURE
Statistical Reporting Service
and World Agricultural Outlook Board

Volume 71, No 44

WASHINGTON, D.C.

Nov. 6, 1984

National Weather Summary October 28 to November 3



and along the southeastern coast. Another cold outbreak brought sub-zero temperatures to Montana and freezes throughout the Plateau, Rockies, and into Nebraska.

WEDNESDAY...Moderate to heavy showers and thunderstorms occurred along and ahead of a cold front from eastern Kansas and Missouri to the central Lakes. Lighter showers fell south of this area and through the Rockies. Very cold weather spread over the northern tier of States from Washington to Michigan.

THURSDAY...Showers, thunderstorms, and a few tornadoes were widespread from eastern Texas to western Alabama, and northward to the eastern Great Lakes. Lighter showers covered the Appalachians. Another Pacific storm brought heavy rain to the Northwest coast and snow inland. Sub-zero temperatures covered Montana and spread into North Dakota.

FRIDAY...Light and widely scattered showers fell from the lower Mississippi Delta, through the Southeast, and along the east coast. Showers were frequent in the Northwest and into central California. Snow fell in the Cascades, over the Plateau, and into the Rockies. Freezing temperatures pushed southward into the Texas Panhandle, Oklahoma, and eastward to Indiana.

SATURDAY...Freezing temperatures ended the growing season southward to the Ohio River and throughout the Northeast. However, warming began through the Plains. Showers and thunderstorms covered the Southeast, and showers reached northward to the upper Ohio Valley. Rain continued along the Pacific coast, and snow continued in the Mountains.

HIGHLIGHTS: Precipitation covered from the eastern portion of the Plains to the east coast. Moderate to heavy showers, thunderstorms, and a few tornadoes accompanied a cold front as it moved through the middle and lower Mississippi Valley and the Great Lakes to the Appalachian mountains. Pacific storms brought moderate to heavy rain to the Pacific Northwest coast and snow to the northern Plateau and Rockies. Freezing temperatures covered the Plains to the Texas Panhandle and northern Oklahoma; through the Lakes States to the Ohio Valley; and the Northeast. Temperatures averaged much warmer than normal in the Southeast and much colder than normal from Washington to the Great Lakes.

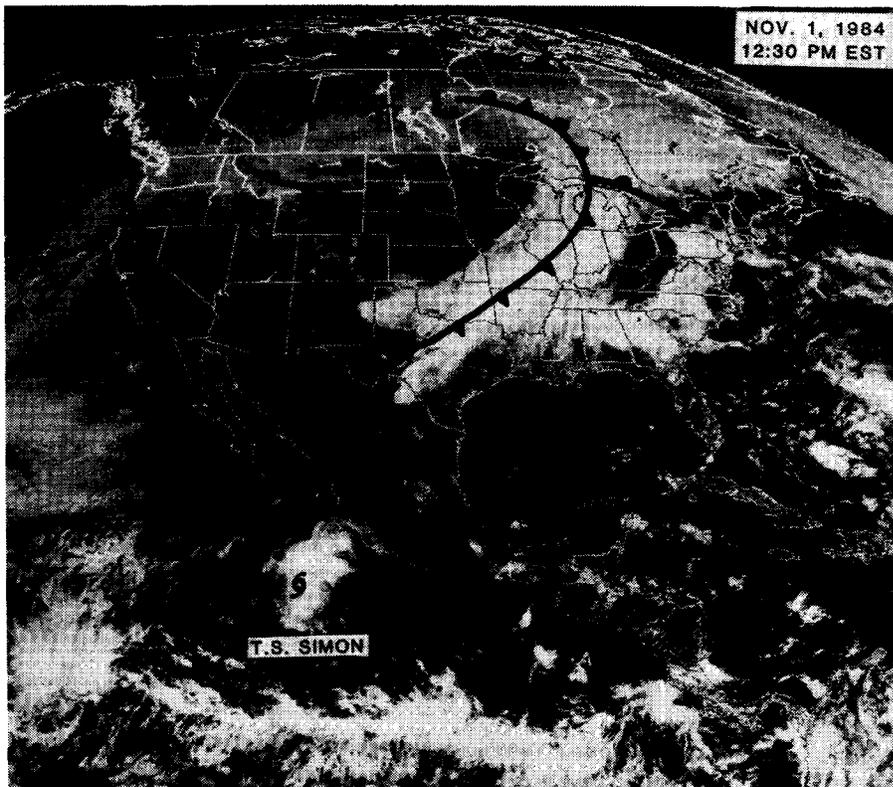
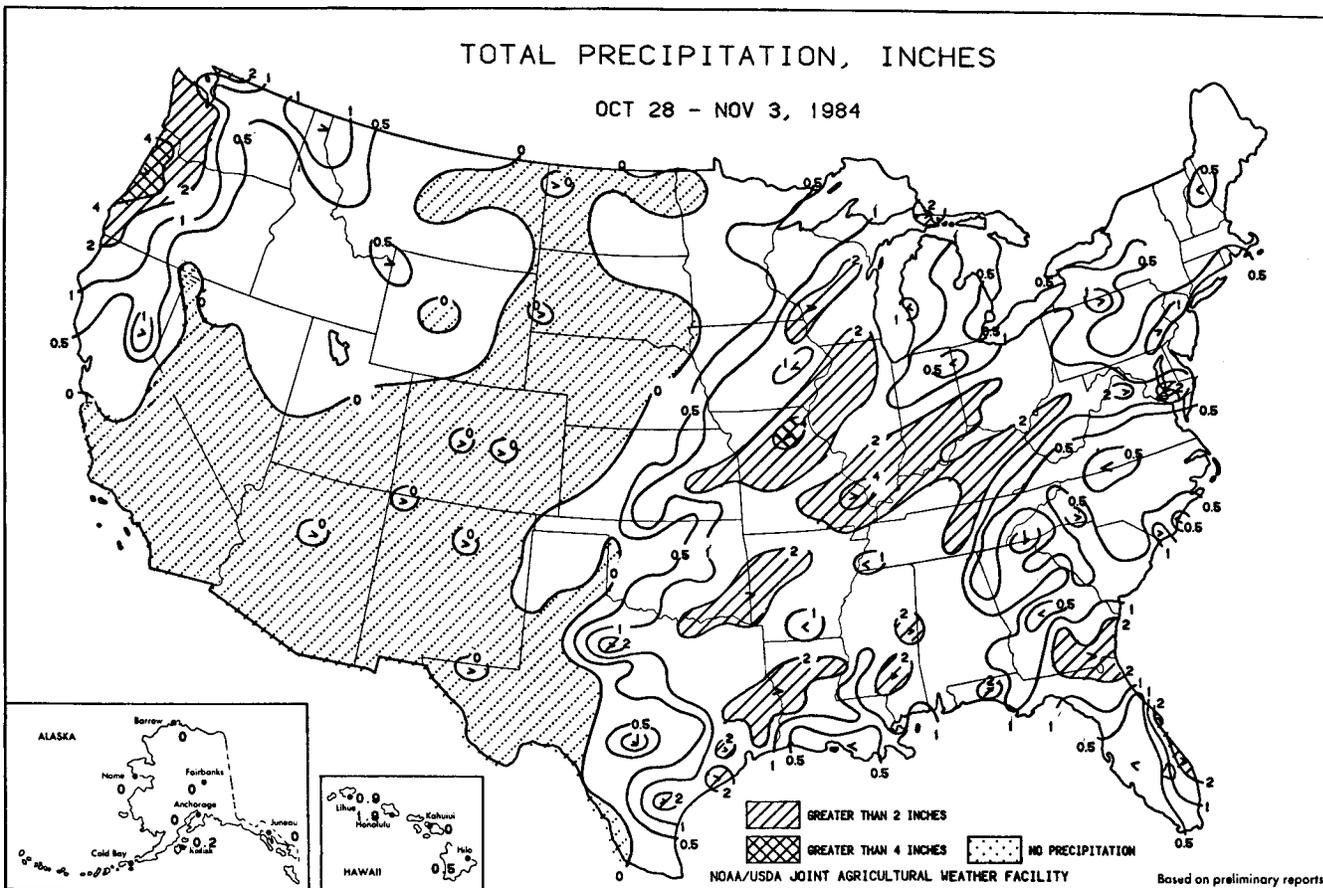
SUNDAY...Light showers fell to the east of a line from eastern Texas to Lake Erie. A few moderate showers fell through parts of the Ohio Valley and along the east coast. Light showers also fell from northern California through the Northwest. Snow covered the mountains and high plateaus. Record high temperatures were recorded in the East from Georgia to New York, while cold weather continued in the West.

MONDAY...Precipitation was light or absent over most of the Nation. Light precipitation fell from the Northwest to the western Great Lakes. Light showers scattered from northern Texas to southern New England. Freezing weather pushed into the central Great Lakes and upper Mississippi Valley. The very warm eastern weather receded southward.

TUESDAY...Light showers fell in the lower Missouri and middle Mississippi Valleys, in the Northwest,

Contents

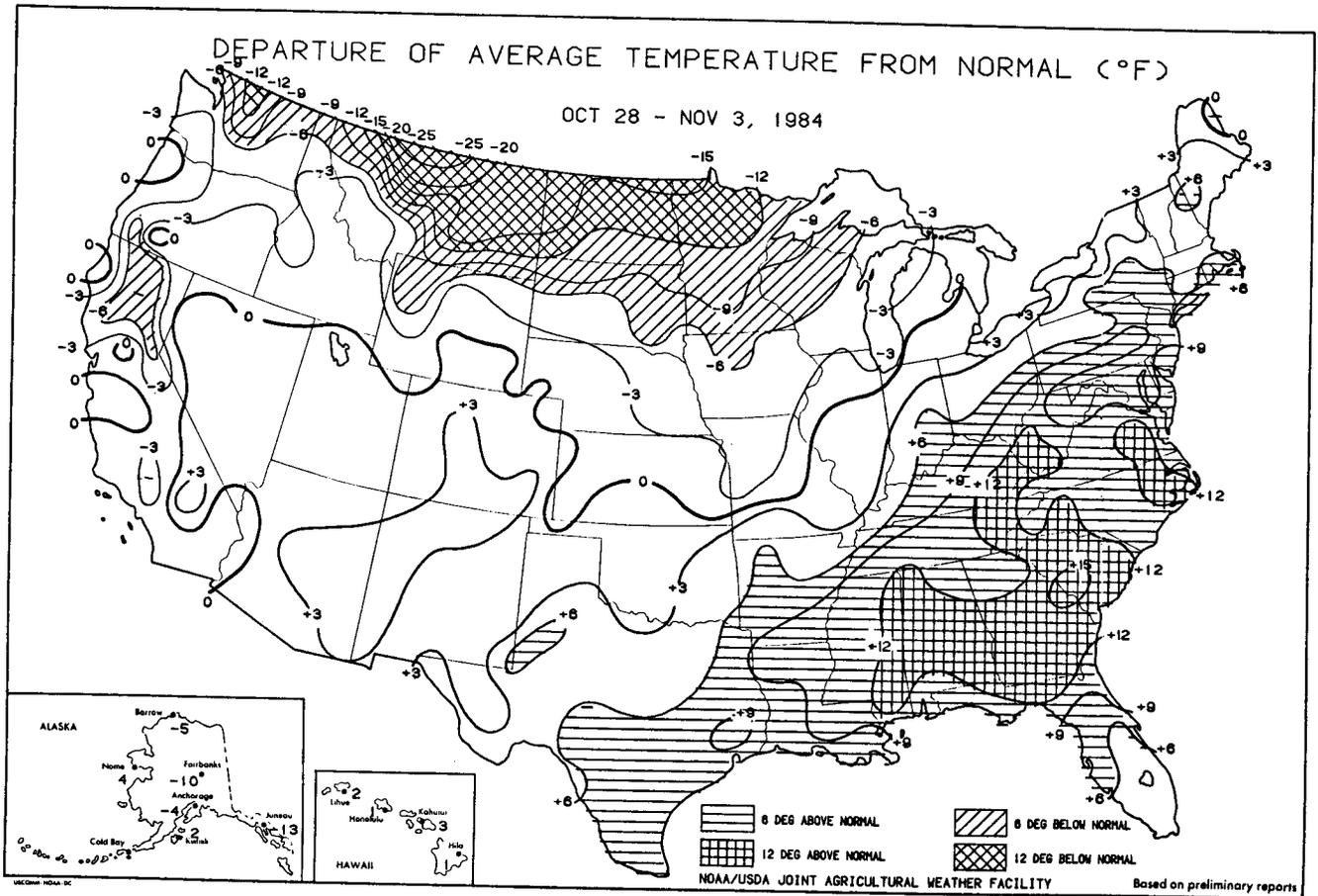
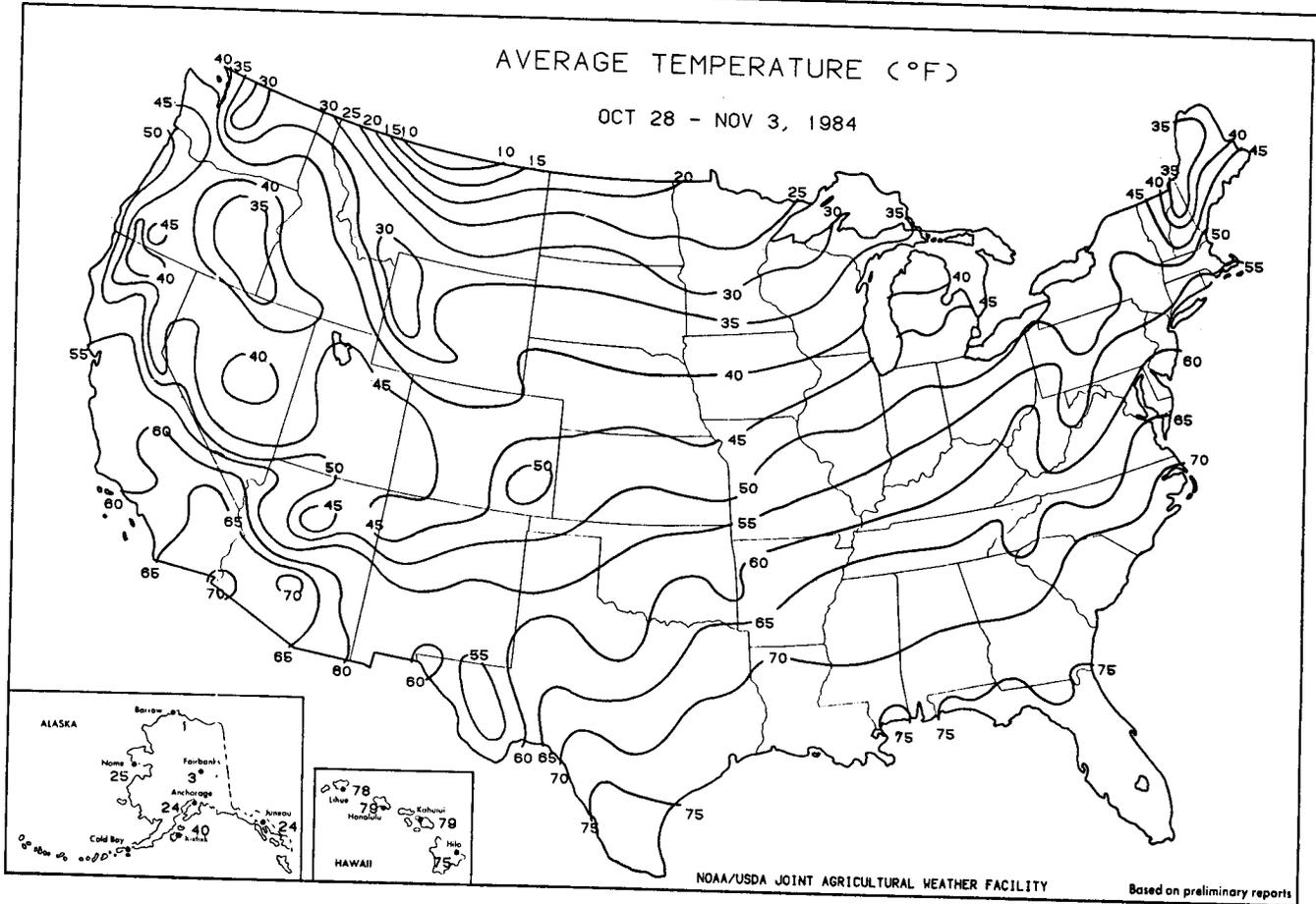
| | Page |
|--|------|
| National Weather Summary | 1 |
| Precipitation & North American Satellite Photo | 2 |
| Average Temperature & Departure | 3 |
| Extreme Minimum Temperature | 4 |
| Weather Data for Selected Cities | 5 |
| Heating Degree Days Table | 8 |
| Heating Degree Days Maps | 9 |
| October Weather & Crop Summaries | 10 |
| October Precipitation & Percent of Normal | 11 |
| October Temperature & Temperature Departure | 12 |
| October Weather Data for Selected Cities | 13 |
| October Heating Degree Days Table | 14 |
| National Agricultural Summary | 15 |
| Crop Progress Tables | 16 |
| State Summaries of Weather & Agriculture | 17 |
| Global Weather Satellite Photo | 24 |
| International Weather & Crop Summary | 25 |
| Subscription & Mailing Permit Information | 28 |

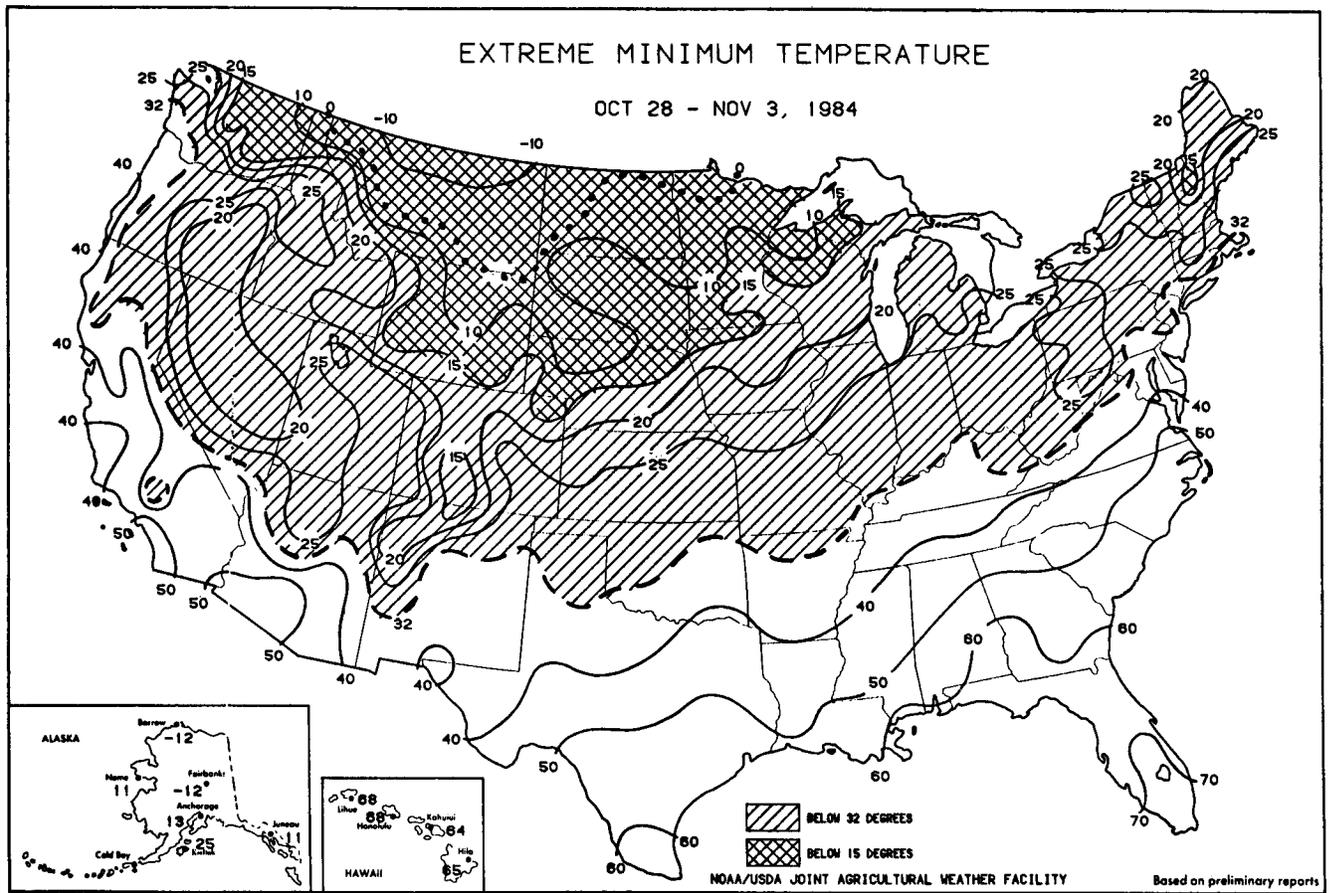


SHOWERS, THUNDERSTORMS, AND A FEW TORNADES WERE WIDE-SPREAD ON BOTH SIDES OF A COLD FRONT, MOVING EASTWARD. WARM, MOIST FLOW FROM THE GULF OF MEXICO COVERS THE EAST, WHILE MUCH COLDER AIR SPREADS THROUGH THE NORTHERN PLAINS.

ANOTHER PACIFIC STORM MOVES ONTO THE NORTHWEST COAST.

TROPICAL STORM SIMON BARELY BRUSHES THE MEXICAN COAST BEFORE MOVING WESTWARD.





Weather Data for the Week Ending November 3, 1984

| 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 Sept. 1 | PCT. NORMAL SINCE Sept. 1 | TOTAL, IN., SINCE JAN 1 | PCT. NORMAL SINCE JAN 1 | AVERAGE MAXIMUM | AVERAGE MINIMUM | 90 AND ABOVE | 32 AND BELOW | .01 INCH OR MORE |
| AL BIRMINGHAM | 78 | 59 | 87 | 48 | 69 | 12 | 1.4 | .7 | .7 | 5.9 | 81 | 39.7 | 89 | 56 | 0 | 0 | 0 | 1 |
| MOBILE | 79 | 64 | 86 | 54 | 71 | 9 | 1.1 | .5 | 1.1 | 7.0 | 75 | 50.0 | 93 | 66 | 0 | 0 | 0 | 1 |
| MONTGOMERY | 82 | 63 | 90 | 56 | 73 | 13 | 1.9 | 1.5 | 1.0 | 6.0 | 84 | 45.7 | 95 | 59 | 0 | 0 | 4 | 1 |
| AK ANCHORAGE | 31 | 17 | 34 | 13 | 24 | -4 | T | .3 | T | 4.0 | 93 | 13.7 | 105 | 51 | 1 | 0 | 4 | 0 |
| BARROW | 5 | -4 | 16 | -12 | 1 | -5 | T | .1 | T | .5 | 41 | 3.7 | 86 | 65 | 0 | 7 | 0 | 0 |
| FAIRBANKS | 15 | 18 | 20 | -12 | 3 | -10 | T | .1 | T | .9 | 48 | 8.6 | 96 | 68 | 0 | 7 | 0 | 0 |
| JUNEAU | 30 | 17 | 33 | 11 | 24 | -13 | 0 | .1 | 0 | 10.1 | 68 | 44.8 | 102 | 65 | 0 | 7 | 0 | 0 |
| KODIAK | 47 | 32 | 52 | 25 | 40 | 2 | T | .2 | T | 11.4 | 62 | 57.8 | 93 | 85 | 0 | 3 | 3 | 0 |
| NOME | 32 | 19 | 35 | 11 | 25 | 4 | T | .2 | T | 2.4 | 67 | 13.2 | 99 | 90 | 0 | 7 | 0 | 0 |
| AZ PHOENIX | 84 | 56 | 86 | 54 | 70 | 3 | 0 | .1 | 0 | 3.7 | 280 | 11.2 | 193 | 52 | 0 | 0 | 0 | 0 |
| PRESCOTT | 69 | 35 | 73 | 31 | 52 | 3 | 0 | .3 | 0 | 2.1 | 75 | 11.5 | 72 | 78 | 0 | 1 | 0 | 0 |
| TUCSON | 81 | 48 | 83 | 46 | 65 | 1 | 0 | .1 | 0 | 2.6 | 116 | 11.7 | 122 | 58 | 0 | 0 | 0 | 0 |
| YUMA | 84 | 56 | 87 | 54 | 70 | 1 | 0 | .1 | 0 | .1 | 14 | 4.1 | 195 | 62 | 0 | 0 | 0 | 0 |
| AR FORT SMITH | 73 | 49 | 85 | 37 | 61 | 6 | 2.5 | 1.7 | 2.0 | 20.0 | 294 | 41.5 | 122 | 92 | 0 | 0 | 0 | 0 |
| LITTLE ROCK | 74 | 53 | 84 | 35 | 63 | 6 | 1.1 | .3 | .6 | 18.9 | 274 | 46.5 | 121 | 90 | 0 | 0 | 3 | 1 |
| CA BAKERSFIELD | 72 | 46 | 82 | 43 | 59 | -3 | 0 | .1 | 0 | .1 | 20 | 1.4 | 31 | 77 | 33 | 2 | 0 | 0 |
| EUREKA | 60 | 46 | 64 | 38 | 53 | 0 | 1.4 | .3 | 1.0 | 5.5 | 131 | 22.3 | 83 | 89 | 0 | 0 | 3 | 0 |
| FRESNO | 71 | 47 | 80 | 41 | 59 | 0 | T | .7 | T | .7 | 99 | 2.8 | 78 | 38 | 0 | 0 | 0 | 0 |
| LOS ANGELES | 69 | 54 | 71 | 52 | 61 | -2 | 0 | .4 | 0 | .4 | 69 | 2.3 | 26 | 77 | 47 | 0 | 0 | 0 |
| RED BLUFF | 62 | 44 | 66 | 33 | 53 | -5 | 0 | .2 | 0 | 2.2 | 111 | 6.9 | 46 | 95 | 51 | 0 | 0 | 0 |
| SACRAMENTO | 67 | 49 | 73 | 39 | 58 | 0 | T | .4 | T | 1.1 | 79 | 4.0 | 33 | 93 | 53 | 0 | 3 | 1 |
| SAN DIEGO | 72 | 58 | 75 | 56 | 65 | 0 | 0 | .3 | 0 | .3 | 44 | 1.7 | 25 | 88 | 60 | 0 | 0 | 0 |
| SAN FRANCISCO | 64 | 49 | 67 | 42 | 56 | -1 | .1 | .1 | .1 | 2.0 | 136 | 6.1 | 44 | 94 | 61 | 0 | 2 | 0 |
| CO DENVER | 59 | 28 | 76 | 24 | 44 | -1 | 0 | .1 | 0 | 3.9 | 172 | 15.8 | 113 | 83 | 26 | 6 | 0 | 0 |
| GRAND JUNCTION | 62 | 34 | 65 | 30 | 48 | 1 | 0 | .1 | 0 | 2.9 | 175 | 10.6 | 154 | 72 | 32 | 2 | 0 | 0 |
| PUEBLO | 66 | 30 | 76 | 21 | 48 | 2 | 0 | .1 | 0 | 2.8 | 173 | 15.4 | 152 | 91 | 25 | 5 | 0 | 0 |
| CT BRIDGEPORT | 64 | 49 | 71 | 33 | 56 | 6 | 1.0 | .1 | .9 | 4.3 | 63 | 38.4 | 112 | 90 | 59 | 0 | 0 | 1 |
| HARTFORD | 64 | 40 | 73 | 24 | 52 | 5 | .2 | .6 | .2 | 4.0 | 51 | 37.7 | 103 | 87 | 48 | 2 | 0 | 0 |
| DC WASHINGTON | 70 | 55 | 82 | 38 | 62 | 9 | .8 | .1 | .8 | 5.6 | 89 | 33.1 | 99 | 90 | 57 | 0 | 2 | 1 |
| FL APALACHICOLA | 83 | 67 | 87 | 65 | 75 | 10 | 1.2 | .7 | .6 | 3.6 | 31 | 53.9 | 111 | 97 | 69 | 0 | 4 | 1 |
| DAYTONA BEACH | 84 | 71 | 86 | 70 | 78 | 9 | .3 | .3 | .3 | 12.2 | 106 | 43.3 | 98 | 86 | 62 | 0 | 2 | 1 |
| JACKSONVILLE | 82 | 67 | 87 | 64 | 75 | 10 | 2.6 | 2.2 | 1.6 | 15.4 | 144 | 47.0 | 97 | 100 | 69 | 0 | 6 | 2 |
| KEY WEST | 84 | 77 | 85 | 74 | 80 | 2 | .2 | .1 | .1 | 8.8 | 76 | 38.2 | 110 | 81 | 64 | 0 | 4 | 0 |
| MIAMI | 84 | 73 | 86 | 71 | 79 | 3 | 1.1 | .5 | .5 | 13.5 | 87 | 56.1 | 105 | 91 | 61 | 0 | 5 | 1 |
| ORLANDO | 85 | 68 | 88 | 67 | 76 | 6 | .2 | .2 | .2 | 7.0 | 82 | 42.2 | 95 | 99 | 60 | 0 | 3 | 0 |
| TALLAHASSEE | 84 | 68 | 89 | 66 | 76 | 13 | 1.0 | .4 | .8 | 3.9 | 41 | 52.6 | 92 | 97 | 64 | 0 | 3 | 1 |
| TAMPA | 86 | 69 | 88 | 66 | 78 | 7 | .3 | .1 | .3 | 4.8 | 56 | 31.8 | 74 | 93 | 54 | 0 | 1 | 0 |
| WEST PALM BEACH | 83 | 73 | 83 | 69 | 78 | 4 | 2.8 | 1.6 | 2.0 | 12.7 | 73 | 57.5 | 105 | 89 | 69 | 0 | 4 | 0 |
| GA ATLANTA | 73 | 61 | 83 | 51 | 67 | 11 | .6 | .1 | .4 | 1.6 | 26 | 49.7 | 120 | 93 | 61 | 0 | 3 | 0 |
| AUGUSTA | 83 | 64 | 90 | 53 | 73 | 15 | .3 | .1 | .1 | 1.4 | 24 | 42.4 | 112 | 97 | 55 | 0 | 4 | 0 |
| MACON | 80 | 66 | 89 | 59 | 73 | 14 | .1 | .3 | .1 | 1.1 | 19 | 40.5 | 105 | 91 | 59 | 0 | 4 | 0 |
| SAVANNAH | 81 | 67 | 86 | 56 | 74 | 12 | 1.5 | 1.1 | .8 | 9.2 | 124 | 47.9 | 106 | 96 | 63 | 0 | 3 | 2 |
| HI HILO | 83 | 67 | 85 | 65 | 75 | 1 | .5 | .5 | .5 | 6.5 | 36 | 69.3 | 68 | 86 | 59 | 0 | 2 | 0 |
| HONOLULU | 86 | 72 | 88 | 68 | 79 | 1 | 1.9 | 1.3 | 1.3 | 3.2 | 113 | 8.3 | 48 | 89 | 56 | 0 | 3 | 0 |
| KAHULUI | 90 | 69 | 95 | 64 | 79 | 3 | T | .4 | T | 0 | 0 | 6.8 | 45 | 82 | 46 | 3 | 0 | 0 |
| LIHUE | 83 | 72 | 86 | 68 | 78 | 2 | .9 | .7 | .7 | 3.8 | 51 | 14.2 | 42 | 81 | 61 | 0 | 4 | 1 |
| ID BOISE | 52 | 31 | 66 | 24 | 42 | -4 | .2 | .2 | .2 | 1.7 | 114 | 10.4 | 113 | 78 | 33 | 4 | 0 | 0 |
| LEWISTON | 51 | 36 | 63 | 27 | 44 | -1 | T | .2 | T | .8 | 45 | 9.5 | 91 | 74 | 41 | 2 | 2 | 0 |
| POCATELLO | 49 | 31 | 56 | 23 | 40 | -1 | .3 | .1 | .3 | 1.7 | 98 | 11.9 | 131 | 79 | 38 | 4 | 0 | 0 |
| IL CHICAGO | 57 | 30 | 68 | 21 | 43 | -3 | 1.3 | .9 | .8 | 7.8 | 136 | 28.8 | 98 | 93 | 51 | 4 | 2 | 1 |
| MOLINE | 56 | 32 | 65 | 24 | 44 | -2 | 2.4 | 1.9 | 1.3 | 10.3 | 156 | 34.3 | 102 | 82 | 47 | 4 | 2 | 2 |
| PEORIA | 59 | 35 | 69 | 25 | 47 | 0 | 2.6 | 2.1 | 1.5 | 8.9 | 142 | 34.4 | 110 | 87 | 53 | 0 | 2 | 2 |
| QUINCY | 60 | 36 | 68 | 25 | 48 | 0 | 2.4 | 1.8 | 2.2 | 9.5 | 125 | 34.6 | 101 | 91 | 59 | 0 | 3 | 2 |
| ROCKFORD | 57 | 30 | 64 | 22 | 43 | -1 | 2.3 | 1.7 | 1.5 | 8.5 | 125 | 28.1 | 85 | 87 | 44 | 4 | 2 | 2 |
| SPRINGFIELD | 61 | 38 | 70 | 26 | 50 | 1 | 1.1 | .7 | .7 | 10.2 | 177 | 35.0 | 117 | 89 | 54 | 3 | 2 | 1 |
| IN EVANSVILLE | 65 | 47 | 79 | 31 | 56 | 5 | 2.3 | 1.7 | 1.2 | 13.1 | 240 | 39.7 | 113 | 92 | 62 | 0 | 3 | 1 |
| FORT WAYNE | 60 | 41 | 70 | 29 | 50 | 4 | .4 | .2 | .4 | 6.6 | 124 | 25.7 | 87 | 84 | 59 | 2 | 3 | 2 |
| INDIANAPOLIS | 63 | 45 | 72 | 32 | 54 | 6 | 1.9 | 1.3 | 1.8 | 9.1 | 165 | 34.2 | 102 | 89 | 63 | 0 | 3 | 0 |
| IA DES MOINES | 58 | 37 | 69 | 26 | 47 | 1 | 1.0 | .3 | .8 | 8.8 | 131 | 28.1 | 86 | 83 | 55 | 2 | 2 | 1 |
| SOUTH BEND | 54 | 29 | 63 | 19 | 42 | -5 | 1.2 | .8 | .6 | 9.1 | 169 | 38.2 | 134 | 90 | 49 | 0 | 4 | 2 |
| KS WATERLOO | 49 | 29 | 61 | 17 | 39 | -6 | .1 | .1 | .1 | 5.3 | 123 | 30.7 | 129 | 81 | 39 | 6 | 2 | 0 |
| KS CONCORDIA | 51 | 25 | 60 | 18 | 38 | -5 | 1.8 | 1.4 | 1.0 | 7.5 | 130 | 31.5 | 104 | 88 | 48 | 0 | 7 | 2 |
| DODGE CITY | 64 | 37 | 78 | 28 | 50 | -3 | .2 | .1 | .2 | 6.0 | 124 | 25.1 | 98 | 95 | 54 | 3 | 2 | 0 |
| GOODLAND | 59 | 32 | 70 | 23 | 46 | -4 | T | .2 | T | 3.2 | 101 | 16.4 | 84 | 89 | 48 | 2 | 0 | 0 |
| TOPEKA | 58 | 37 | 73 | 27 | 48 | -2 | T | .1 | T | 3.5 | 146 | 20.2 | 132 | 88 | 40 | 3 | 2 | 0 |
| WICHITA | 63 | 40 | 69 | 29 | 52 | 0 | 1.3 | .8 | .9 | 8.7 | 136 | 35.4 | 116 | 92 | 56 | 3 | 0 | 0 |
| KY BOWLING GREEN | 69 | 50 | 80 | 34 | 59 | 8 | .9 | .5 | .9 | 4.9 | 81 | 22.5 | 85 | 91 | 61 | 1 | 2 | 1 |
| LEXINGTON | 68 | 51 | 77 | 32 | 59 | 8 | 1.0 | .3 | .9 | 9.5 | 150 | 48.7 | 119 | 98 | 62 | 0 | 3 | 3 |
| LA LOUISVILLE | 68 | 50 | 78 | 33 | 59 | 8 | 2.4 | 1.8 | 1.2 | 6.3 | 109 | 33.3 | 86 | 94 | 58 | 0 | 1 | 2 |
| ALEXANDRIA | 79 | 62 | 85 | 48 | 70 | 9 | 1.2 | .5 | .8 | 6.6 | 106 | 36.9 | 100 | 86 | 55 | 0 | 4 | 1 |
| BATON ROUGE | 81 | 62 | 88 | 51 | 72 | 9 | 1.3 | .2 | 1.3 | 14.0 | 195 | 57.3 | 125 | 91 | 64 | 0 | 2 | 1 |
| LAKE CHARLES | 81 | 62 | 86 | 48 | 72 | 8 | 1.7 | 1.0 | 1.6 | 18.5 | 253 | 46.4 | 98 | 97 | 62 | 0 | 2 | 1 |
| NEW ORLEANS | 79 | 63 | 85 | 53 | 71 | 7 | .2 | .1 | .1 | 19.2 | 215 | 55.2 | 124 | 100 | 63 | 0 | 3 | 0 |
| | | | | | | | .1 | .1 | .1 | 6.7 | 77 | 46.7 | 92 | 88 | 60 | 0 | 0 | 0 |

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

Weather Data for the Week Ending November 3, 1984

| 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 Sept. 1 | PCT. NORMAL SINCE Sept. 1 | TOTAL, IN., SINCE JAN 1 | PCT. NORMAL SINCE JAN 1 | AVERAGE MAXIMUM | AVERAGE MINIMUM | TEMPERA- TURE °F | | PRECIPI- TATION | |
| | | | | | | | | | | | | | | | | 90 AND ABOVE | 32 AND BELOW | .01 INCH OR MORE | .50 INCH OR MORE |
| SHREVEPORT | 80 | 61 | 88 | 45 | 70 | 10 | 1.7 | 1.0 | 1.4 | 16.2 | 259 | 22.5 | 116 | 96 | 62 | 0 | 0 | 0 | 0 |
| ME CARIBOU | 48 | 28 | 61 | 18 | 38 | 0 | .3 | -1.4 | .2 | 3.5 | 51 | 30.5 | 100 | 85 | 43 | 0 | 0 | 0 | 0 |
| PORTLAND | 59 | 35 | 68 | 23 | 47 | 0 | .2 | -1.8 | .2 | 4.1 | 54 | 40.9 | 117 | 91 | 40 | 0 | 0 | 0 | 0 |
| MD BALTIMORE | 68 | 50 | 83 | 35 | 59 | 0 | .3 | -1.4 | .2 | 4.2 | 62 | 32.1 | 90 | 93 | 55 | 0 | 0 | 0 | 0 |
| SALISBURY | 72 | 54 | 83 | 38 | 63 | 11 | .7 | 0 | .7 | 1.9 | 24 | 37.2 | 95 | 99 | 62 | 0 | 0 | 0 | 0 |
| MA BOSTON | 60 | 42 | 72 | 29 | 51 | 1 | .3 | -1.6 | .3 | 6.4 | 89 | 45.5 | 128 | 88 | 54 | 0 | 0 | 0 | 0 |
| CHATHAM | 63 | 49 | 69 | 40 | 56 | 7 | .1 | -1.8 | .1 | 7.3 | 93 | 45.0 | 119 | 11 | 1 | 0 | 0 | 0 | 0 |
| MI ALPENA | 51 | 26 | 65 | 20 | 39 | -2 | 1.0 | -.5 | .9 | 7.6 | 149 | 27.3 | 111 | 95 | 54 | 0 | 0 | 0 | 0 |
| DETROIT | 57 | 35 | 70 | 25 | 46 | 1 | .4 | -1.1 | .4 | 5.1 | 113 | 21.5 | 82 | 77 | 47 | 0 | 0 | 0 | 0 |
| FLINT | 57 | 35 | 68 | 25 | 46 | 1 | .7 | -.2 | .6 | 5.7 | 122 | 24.1 | 96 | 86 | 49 | 0 | 0 | 0 | 0 |
| GRAND RAPIDS | 57 | 34 | 69 | 25 | 45 | 1 | 1.2 | -.5 | 1.2 | 6.7 | 107 | 22.6 | 77 | 86 | 50 | 0 | 0 | 0 | 0 |
| HOUGHTON LAKE | 49 | 29 | 58 | 22 | 39 | -2 | .8 | -.3 | .8 | 4.6 | 88 | 24.6 | 103 | 87 | 55 | 0 | 0 | 0 | 0 |
| LANSING | 56 | 33 | 68 | 22 | 44 | 0 | .8 | -.3 | .7 | 6.4 | 131 | 23.4 | 93 | 90 | 53 | 0 | 0 | 0 | 0 |
| MARQUETTE | 44 | 18 | 56 | 13 | 31 | -7 | .6 | -.1 | .3 | 6.7 | 89 | 27.7 | 86 | 93 | 52 | 0 | 0 | 0 | 0 |
| MUSKOGON | 55 | 31 | 67 | 23 | 43 | -2 | .7 | -.1 | .7 | 4.6 | 78 | 22.9 | 87 | 88 | 54 | 0 | 0 | 0 | 0 |
| SAULT STE. MARIE | 45 | 26 | 59 | 17 | 36 | -4 | 2.2 | 1.5 | 1.6 | 10.5 | 149 | 28.0 | 100 | 96 | 60 | 0 | 0 | 0 | 0 |
| MN ALEXANDRIA | 36 | 18 | 54 | 8 | 27 | -11 | .2 | -.2 | 1.1 | 10.0 | 235 | 31.0 | 135 | 90 | 51 | 0 | 0 | 0 | 0 |
| DULUTH | 36 | 16 | 47 | 7 | 26 | -11 | .5 | -.1 | .3 | 9.1 | 163 | 24.2 | 90 | 82 | 51 | 0 | 0 | 0 | 0 |
| INT'L FALLS | 31 | 11 | 42 | 1 | 21 | -13 | .3 | 0 | .2 | 6.3 | 125 | 18.8 | 84 | 88 | 54 | 0 | 0 | 0 | 0 |
| MINNEAPOLIS | 44 | 25 | 53 | 15 | 34 | -7 | .3 | -.1 | .2 | 8.2 | 184 | 34.2 | 140 | 71 | 40 | 0 | 0 | 0 | 0 |
| ROCHESTER | 44 | 23 | 53 | 15 | 34 | -7 | .5 | -.2 | .5 | 6.1 | 117 | 24.6 | 94 | 86 | 47 | 0 | 0 | 0 | 0 |
| MS GREENWOOD | 78 | 59 | 86 | 42 | 69 | 11 | 1.4 | -.5 | 1.3 | 14.6 | 224 | 46.0 | 106 | 100 | 58 | 0 | 0 | 0 | 0 |
| JACKSON | 80 | 60 | 88 | 46 | 70 | 11 | .9 | -.1 | .6 | 9.5 | 146 | 41.9 | 97 | 100 | 57 | 0 | 0 | 0 | 0 |
| MERIDIAN | 81 | 62 | 87 | 51 | 71 | 13 | 1.4 | -.8 | 1.1 | 11.7 | 182 | 46.5 | 104 | 95 | 60 | 0 | 0 | 0 | 0 |
| MO CAPE GIRARDEAU | 65 | 46 | 77 | 33 | 56 | 1 | 3.9 | 3.2 | 2.6 | 17.2 | 269 | 38.1 | 102 | 96 | 70 | 0 | 0 | 0 | 0 |
| COLUMBIA | 62 | 38 | 76 | 26 | 50 | 0 | 2.2 | 1.6 | 2.0 | 12.1 | 168 | 43.7 | 135 | 93 | 64 | 0 | 0 | 0 | 0 |
| KANSAS CITY | 57 | 35 | 73 | 24 | 46 | -4 | 1.6 | 1.1 | 1.0 | 9.9 | 133 | 34.4 | 106 | 95 | 59 | 0 | 0 | 0 | 0 |
| SAINT LOUIS | 63 | 41 | 73 | 29 | 52 | 1 | 2.0 | 1.4 | 1.7 | 17.7 | 338 | 43.0 | 146 | 92 | 62 | 0 | 0 | 0 | 0 |
| SPRINGFIELD | 64 | 44 | 80 | 30 | 54 | 3 | 1.9 | 1.3 | 1.9 | 12.4 | 162 | 35.9 | 104 | 89 | 60 | 0 | 0 | 0 | 0 |
| MT BILLINGS | 36 | 13 | 58 | 1 | 25 | -17 | .2 | 0 | .2 | 1.8 | 71 | 8.7 | 65 | 93 | 54 | 0 | 0 | 0 | 0 |
| GLASGOW | 31 | 5 | 48 | -10 | 18 | -19 | T | -1 | T | 1.3 | 91 | 5.9 | 54 | 86 | 59 | 0 | 0 | 0 | 0 |
| GREAT FALLS | 31 | 8 | 55 | -9 | 20 | -21 | .2 | 0 | .2 | 1.6 | 85 | 10.4 | 75 | 87 | 54 | 0 | 0 | 0 | 0 |
| HAVRE | 22 | -3 | 41 | -17 | 9 | -28 | .1 | 0 | .1 | 1.7 | 110 | 6.0 | 58 | 92 | 55 | 0 | 0 | 0 | 0 |
| HELENA | 43 | 16 | 58 | -2 | 29 | -9 | .2 | 0 | .1 | 1.6 | 107 | 8.3 | 81 | 82 | 44 | 0 | 0 | 0 | 0 |
| KALISPELL | 36 | 14 | 45 | -3 | 25 | -11 | .8 | -.5 | .3 | 4.6 | 209 | 13.6 | 103 | 87 | 58 | 0 | 0 | 0 | 0 |
| MILES CITY | 39 | 11 | 59 | -2 | 25 | -14 | T | -1 | T | .8 | 40 | 7.6 | 58 | 88 | 41 | 0 | 0 | 0 | 0 |
| MISSOULA | 43 | 28 | 49 | 19 | 35 | -2 | .5 | -.4 | .2 | 2.2 | 114 | 12.1 | 107 | 97 | 55 | 0 | 0 | 0 | 0 |
| NE GRAND ISLAND | 52 | 30 | 70 | 20 | 41 | -4 | .1 | -.1 | .1 | 3.8 | 105 | 28.9 | 132 | 82 | 36 | 0 | 0 | 0 | 0 |
| LINCOLN | 53 | 30 | 63 | 20 | 42 | -4 | .3 | 0 | .3 | 5.2 | 112 | 32.9 | 130 | 91 | 46 | 0 | 0 | 0 | 0 |
| NORFOLK | 52 | 29 | 65 | 20 | 40 | -3 | T | -2 | T | 5.0 | 144 | 31.0 | 138 | 72 | 33 | 0 | 0 | 0 | 0 |
| NORTH PLATTE | 55 | 27 | 70 | 16 | 41 | -1 | T | -1 | T | 2.8 | 107 | 19.7 | 106 | 78 | 35 | 0 | 0 | 0 | 0 |
| OMAHA | 52 | 30 | 62 | 21 | 41 | -4 | .5 | -.2 | .5 | 7.8 | 140 | 32.6 | 116 | 83 | 55 | 0 | 0 | 0 | 0 |
| SCOTTSDUFF | 60 | 24 | 76 | 17 | 42 | 0 | 0 | -1 | 0 | 1.3 | 70 | 12.1 | 89 | 71 | 24 | 0 | 0 | 0 | 0 |
| VALENTINE | 56 | 19 | 68 | 8 | 37 | -4 | 0 | -1 | 0 | 1.0 | 45 | 18.4 | 112 | 72 | 26 | 0 | 0 | 0 | 0 |
| NV SLY | 57 | 24 | 64 | 17 | 40 | 1 | T | -1 | T | 5.2 | 384 | 13.0 | 169 | 79 | 27 | 0 | 0 | 0 | 0 |
| LAS VEGAS | 73 | 47 | 74 | 42 | 60 | 0 | 0 | -1 | 0 | .5 | 80 | 4.2 | 124 | 46 | 20 | 0 | 0 | 0 | 0 |
| RENO | 59 | 32 | 66 | 22 | 46 | 1 | T | -1 | T | .7 | 101 | 2.5 | 44 | 78 | 22 | 0 | 0 | 0 | 0 |
| WINNEMUCCA | 57 | 28 | 70 | 20 | 43 | 0 | .1 | -1 | .1 | 2.5 | 247 | 10.8 | 171 | 75 | 27 | 0 | 0 | 0 | 0 |
| NH CONCORD | 61 | 32 | 74 | 22 | 46 | 3 | .2 | -.6 | .2 | 5.5 | 84 | 36.8 | 123 | 96 | 41 | 0 | 0 | 0 | 0 |
| NJ ATLANTIC CITY | 70 | 51 | 81 | 34 | 61 | 10 | .4 | -.5 | .2 | 2.8 | 45 | 34.7 | 99 | 88 | 54 | 0 | 0 | 0 | 0 |
| NM ALBUQUERQUE | 67 | 38 | 73 | 36 | 52 | 2 | 0 | -1 | 0 | 4.3 | 245 | 10.2 | 140 | 87 | 27 | 0 | 0 | 0 | 0 |
| CLOVIS | 67 | 42 | 76 | 38 | 54 | 2 | .1 | -.2 | .1 | 5.1 | 134 | 22.4 | 138 | 81 | 37 | 0 | 0 | 0 | 0 |
| ROSWELL | 70 | 41 | 79 | 31 | 56 | 1 | T | -1 | T | 3.2 | 120 | 15.8 | 174 | 89 | 33 | 0 | 0 | 0 | 0 |
| NY ALBANY | 62 | 38 | 76 | 26 | 50 | 5 | .3 | -.4 | .2 | 4.1 | 63 | 32.4 | 108 | 92 | 51 | 0 | 0 | 0 | 0 |
| BINGHAMTON | 60 | 39 | 77 | 26 | 49 | 6 | .5 | -.2 | .3 | 3.7 | 55 | 32.9 | 105 | 89 | 45 | 0 | 0 | 0 | 0 |
| BUFFALO | 59 | 35 | 73 | 23 | 47 | 1 | .8 | 0 | .7 | 5.3 | 80 | 31.6 | 103 | 95 | 45 | 0 | 0 | 0 | 0 |
| NEW YORK | 66 | 51 | 80 | 34 | 59 | 6 | .8 | 0 | .8 | 5.7 | 81 | 44.9 | 125 | 87 | 57 | 0 | 0 | 0 | 0 |
| ROCHESTER | 60 | 38 | 76 | 32 | 49 | 3 | .2 | -.4 | .1 | 4.2 | 77 | 29.0 | 110 | 85 | 48 | 0 | 0 | 0 | 0 |
| SYRACUSE | 61 | 35 | 76 | 25 | 48 | 2 | .4 | -.4 | .2 | 4.7 | 69 | 29.9 | 91 | 94 | 50 | 0 | 0 | 0 | 0 |
| NC ASHEVILLE | 70 | 54 | 79 | 44 | 62 | 11 | .2 | -.5 | .2 | 2.9 | 39 | 41.8 | 101 | 99 | 62 | 0 | 0 | 0 | 0 |
| CHARLOTTE | 71 | 61 | 83 | 49 | 67 | 12 | T | -.6 | T | 2.5 | 38 | 40.4 | 109 | 90 | 57 | 0 | 0 | 0 | 0 |
| GREENSBORO | 74 | 58 | 82 | 43 | 64 | 11 | .8 | -.2 | .7 | 2.3 | 32 | 46.6 | 127 | 90 | 57 | 0 | 0 | 0 | 0 |
| HATTERAS | 76 | 66 | 84 | 59 | 71 | 11 | .3 | -.9 | .2 | 4.4 | 40 | 38.6 | 82 | 95 | 69 | 0 | 0 | 0 | 0 |
| NEW BERN | 78 | 64 | 85 | 55 | 71 | 12 | .4 | -.3 | .4 | 14.5 | 155 | 56.3 | 121 | 88 | 66 | 0 | 0 | 0 | 0 |
| RALEIGH | 71 | 59 | 82 | 47 | 65 | 11 | .2 | -.4 | .2 | 3.0 | 48 | 42.2 | 117 | 92 | 63 | 0 | 0 | 0 | 0 |
| WILMINGTON | 78 | 62 | 87 | 55 | 70 | 11 | .4 | -.3 | .3 | 19.4 | 219 | 55.2 | 117 | 98 | 67 | 0 | 0 | 0 | 0 |
| ND BISMARCK | 38 | 13 | 60 | 6 | 26 | -12 | T | -1 | T | 1.9 | 86 | 13.5 | 94 | 75 | 41 | 0 | 0 | 0 | 0 |
| FARGO | 33 | 17 | 44 | 6 | 25 | -12 | T | -2 | T | 7.8 | 243 | 19.1 | 104 | 80 | 47 | 0 | 0 | 0 | 0 |
| GRAND FORKS | 31 | 14 | 42 | 3 | 23 | -13 | T | -2 | T | 3.3 | 103 | 19.3 | 114 | 76 | 52 | 0 | 0 | 0 | 0 |
| WILLISTON | 32 | 5 | 49 | -6 | 19 | -17 | T | -1 | T | 2.7 | 125 | 9.9 | 77 | 85 | 53 | 0 | 0 | 0 | 0 |
| OH AKRON-CANTON | 61 | 41 | 72 | 27 | 51 | 5 | 1.7 | 1.2 | .8 | 6.0 | 111 | 30.0 | 97 | 93 | 53 | 0 | 0 | 0 | 0 |
| CINCINNATI | 65 | 48 | 74 | 31 | 57 | 8 | 2.1 | 1.4 | 1.3 | 8.6 | 151 | 32.9 | 96 | 89 | 58 | 0 | 0 | 0 | 0 |
| CLEVELAND | 60 | 41 | 73 | 28 | 51 | 3 | 2.0 | 1.4 | 1.3 | 5.3 | 94 | 34.4 | 114 | 81 | 52 | 0 | 0 | 0 | 0 |
| COLUMBUS | 64 | 46 | 75 | 28 | 55 | 8 | 2.0 | 1.4 | 1.5 | 5.8 | 120 | 27.4 | 86 | 86 | 50 | 0 | 0 | 0 | 0 |

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

Weather Data for the Week Ending November 3, 1984

| 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 SEPT. 1 | PCT. NORMAL SINCE SEPT. 1 | TOTAL, IN., SINCE JAN 1 | PCT. NORMAL SINCE JAN 1 | AVERAGE MAXIMUM | AVERAGE MINIMUM | 90 AND ABOVE | 32 AND BELOW | TEMPERATURE °F | | PRECIPITATION | |
| | | | | | | | | | | | | | | | | | | .01 INCH OR MORE | .50 INCH OR MORE | | |
| DAYTON | 61 | 43 | 70 | 28 | 52 | 4 | 2.2 | 1.7 | 1.8 | 7.1 | 154 | 29.0 | 98 | 89 | 58 | 0 | 2 | 3 | 1 | 1 | |
| TOLEDO | 58 | 35 | 73 | 22 | 46 | 1 | .5 | 0 | .5 | 4.4 | 94 | 25.8 | 96 | 92 | 57 | 0 | 2 | 1 | 1 | 1 | |
| YOUNGSTOWN | 60 | 39 | 73 | 22 | 50 | 5 | 1.4 | .7 | .9 | 5.3 | 88 | 31.3 | 98 | 93 | 57 | 0 | 2 | 3 | 1 | 1 | |
| OK OKLAHOMA CITY | 68 | 45 | 78 | 32 | 57 | 2 | .1 | -.4 | .1 | 7.8 | 125 | 23.5 | 83 | 98 | 58 | 0 | 2 | 3 | 1 | 1 | |
| TULSA | 70 | 48 | 82 | 34 | 59 | 4 | 1.4 | .7 | 1.3 | 11.0 | 137 | 38.5 | 111 | 89 | 56 | 0 | 0 | 2 | 2 | 0 | |
| OR ASTORIA | 53 | 42 | 58 | 34 | 48 | 2 | 2.2 | .3 | .8 | 13.0 | 125 | 48.5 | 99 | 87 | 58 | 0 | 0 | 2 | 2 | 6 | |
| BURNS | 45 | 23 | 50 | 16 | 34 | -.7 | .4 | .2 | .2 | 1.2 | 76 | 8.5 | 139 | -- | -- | 0 | 0 | 0 | 0 | 1 | |
| MEDFORD | 56 | 40 | 65 | 32 | 48 | 0 | 1.8 | 1.2 | 1.0 | 3.7 | 135 | 11.2 | 82 | 95 | 54 | 0 | 7 | 1 | 2 | 0 | |
| FENDLETON | 49 | 34 | 59 | 27 | 42 | -.4 | .3 | 0 | .3 | 1.7 | 103 | 10.2 | 111 | 77 | 46 | 0 | 3 | 4 | 1 | 0 | |
| PORTLAND | 52 | 42 | 59 | 39 | 47 | -.2 | 3.0 | 2.0 | 1.5 | 8.2 | 159 | 27.9 | 106 | 89 | 56 | 0 | 3 | 5 | 2 | 2 | |
| SALEM | 55 | 41 | 59 | 34 | 48 | -.2 | 3.5 | 2.5 | 2.0 | 8.8 | 159 | 32.0 | 114 | 97 | 61 | 0 | 0 | 4 | 4 | 2 | |
| PA ALLENTOWN | 67 | 47 | 80 | 30 | 57 | 1 | .7 | -.1 | .6 | 5.4 | 73 | 47.7 | 128 | 79 | 46 | 0 | 1 | 4 | 2 | 1 | |
| ERIE | 61 | 41 | 74 | 27 | 51 | 5 | .7 | -.1 | .4 | 7.5 | 98 | 30.5 | 93 | 89 | 52 | 0 | 1 | 3 | 3 | 0 | |
| HARRISBURG | 67 | 48 | 81 | 33 | 57 | 8 | .2 | -.5 | .1 | 2.9 | 43 | 37.3 | 113 | -- | -- | 0 | 0 | 3 | 3 | 0 | |
| PHILADELPHIA | 69 | 51 | 81 | 35 | 60 | 9 | .3 | -.4 | .3 | 4.4 | 68 | 39.8 | 114 | 85 | 50 | 0 | 0 | 3 | 3 | 0 | |
| PITTSBURGH | 67 | 46 | 75 | 28 | 56 | 10 | .7 | .2 | .3 | 4.4 | 81 | 29.3 | 93 | 89 | 44 | 0 | 2 | 2 | 2 | 0 | |
| SCRANTON | 64 | 43 | 80 | 27 | 53 | 7 | .7 | -.2 | .3 | 4.0 | 62 | 34.0 | 114 | 90 | 47 | 0 | 2 | 4 | 4 | 0 | |
| RI PROVIDENCE | 65 | 45 | 78 | 32 | 55 | 7 | .7 | -.2 | .3 | 6.0 | 78 | 43.5 | 117 | 86 | 46 | 0 | 1 | 1 | 3 | 1 | |
| SC CHARLESTON | 79 | 67 | 84 | 53 | 73 | 12 | .7 | .2 | .6 | 7.0 | 88 | 44.2 | 95 | 89 | 70 | 0 | 0 | 2 | 2 | 1 | |
| COLUMBIA | 81 | 63 | 90 | 48 | 72 | 14 | .6 | .1 | .5 | 1.5 | 22 | 42.0 | 97 | 97 | 54 | 0 | 0 | 0 | 0 | 0 | |
| FLORENCE | 77 | 64 | 85 | 53 | 71 | 12 | .4 | -.1 | .4 | 2.1 | 32 | 38.3 | 98 | 96 | 66 | 0 | 0 | 3 | 3 | 0 | |
| GREENVILLE | 74 | 59 | 82 | 44 | 67 | 12 | .2 | -.5 | .1 | 3.7 | 46 | 53.6 | 122 | 91 | 59 | 0 | 0 | 2 | 2 | 0 | |
| SD ABERDEEN | 40 | 20 | 55 | 10 | 30 | -.9 | T | T | T | 3.7 | 147 | 20.7 | 123 | 80 | 43 | 0 | 6 | 1 | 0 | 0 | |
| HURON | 45 | 23 | 61 | 13 | 34 | -.6 | T | T | T | 4.3 | 153 | 29.0 | 166 | 75 | 37 | 0 | 6 | 0 | 0 | 0 | |
| RAPID CITY | 55 | 20 | 72 | 7 | 38 | -.4 | T | T | T | 1.4 | 74 | 14.4 | 94 | 70 | 26 | 0 | 6 | 0 | 0 | 0 | |
| SIoux FALLS | 47 | 25 | 60 | 12 | 36 | -.5 | T | T | T | 4.9 | 112 | 27.7 | 123 | 78 | 38 | 0 | 5 | 0 | 0 | 0 | |
| TN CHATTANOOGA | 74 | 56 | 81 | 48 | 65 | 11 | .3 | -.4 | .3 | 7.2 | 95 | 42.7 | 98 | 92 | 59 | 0 | 5 | 0 | 0 | 0 | |
| KNOXVILLE | 78 | 55 | 83 | 45 | 67 | 13 | .4 | -.4 | .1 | 4.2 | 70 | 43.3 | 110 | 86 | 49 | 0 | 0 | 3 | 3 | 0 | |
| MEMPHIS | 76 | 56 | 87 | 36 | 66 | 10 | .8 | .1 | .8 | 10.5 | 166 | 47.7 | 111 | 99 | 57 | 0 | 0 | 3 | 3 | 0 | |
| NASHVILLE | 73 | 53 | 84 | 35 | 63 | 9 | 1.8 | 1.2 | 1.1 | 7.7 | 118 | 48.7 | 120 | 96 | 59 | 0 | 0 | 2 | 2 | 0 | |
| TX ABILENE | 70 | 51 | 79 | 36 | 60 | 1 | .4 | 0 | .4 | 9.1 | 166 | 17.5 | 82 | 81 | 59 | 0 | 0 | 1 | 1 | 2 | |
| AMARILLO | 67 | 40 | 78 | 29 | 53 | 2 | .1 | -.2 | .1 | 4.1 | 131 | 17.1 | 94 | 85 | 40 | 0 | 1 | 1 | 1 | 0 | |
| AUSTIN | 76 | 62 | 85 | 52 | 69 | 5 | .1 | -.5 | .1 | 11.2 | 155 | 21.2 | 77 | 96 | 64 | 0 | 0 | 2 | 2 | 0 | |
| BEAUMONT | 81 | 65 | 88 | 52 | 73 | 9 | .8 | 0 | .7 | 19.7 | 196 | 52.0 | 118 | 97 | 62 | 0 | 0 | 0 | 3 | 1 | |
| BROWNSVILLE | 85 | 69 | 89 | 62 | 77 | 6 | .1 | -.4 | .1 | 20.4 | 229 | 38.4 | 166 | 97 | 59 | 0 | 0 | 2 | 2 | 0 | |
| CORPUS CHRISTI | 82 | 67 | 87 | 57 | 75 | 6 | 1.2 | .8 | 1.2 | 10.7 | 114 | 20.7 | 76 | 100 | 69 | 0 | 0 | 1 | 1 | 0 | |
| DEL RIO | 78 | 63 | 82 | 52 | 71 | 6 | 0 | 0 | 0 | 4.7 | 94 | 11.9 | 74 | 91 | 54 | 0 | 0 | 0 | 0 | 0 | |
| EL PASO | 77 | 45 | 81 | 42 | 61 | 5 | -.3 | 0 | 0 | 4.3 | 197 | 15.0 | 211 | 86 | 25 | 0 | 0 | 0 | 0 | 0 | |
| FORT WORTH | 73 | 54 | 82 | 46 | 64 | 3 | 1.5 | 1.0 | 1.1 | 7.6 | 128 | 25.5 | 97 | 94 | 63 | 0 | 0 | 3 | 3 | 1 | |
| GALVESTON | 77 | 69 | 83 | 56 | 73 | 6 | .7 | .1 | .7 | 14.7 | 172 | 31.0 | 92 | 91 | 72 | 0 | 0 | 0 | 0 | 0 | |
| HOUSTON | 80 | 65 | 88 | 54 | 73 | 8 | .7 | -.1 | .5 | 20.5 | 230 | 43.7 | 115 | 87 | 58 | 0 | 0 | 2 | 2 | 0 | |
| LUBBOCK | 73 | 46 | 80 | 33 | 60 | 6 | T | T | T | 1.8 | 46 | 11.5 | 68 | 95 | 68 | 0 | 0 | 0 | 0 | 0 | |
| MIDLAND | 73 | 48 | 78 | 41 | 61 | 3 | 0 | 0 | 0 | 3.9 | 110 | 13.3 | 104 | 89 | 47 | 0 | 0 | 0 | 0 | 0 | |
| SAN ANGELO | 75 | 51 | 82 | 43 | 63 | 3 | T | T | T | 6.7 | 130 | 14.4 | 86 | 95 | 54 | 0 | 0 | 0 | 0 | 0 | |
| SAN ANTONIO | 77 | 64 | 85 | 54 | 71 | 6 | .1 | -.5 | .1 | 7.0 | 103 | 19.5 | 76 | 91 | 61 | 0 | 0 | 1 | 1 | 0 | |
| VICTORIA | 82 | 66 | 88 | 57 | 74 | 7 | .8 | .3 | .7 | 11.1 | 115 | 28.5 | 87 | 95 | 65 | 0 | 0 | 3 | 3 | 0 | |
| WACO | 74 | 49 | 85 | 48 | 67 | 4 | 1.4 | .8 | 1.4 | 13.2 | 204 | 27.6 | 102 | 95 | 68 | 0 | 0 | 0 | 1 | 1 | |
| WICHITA FALLS | 69 | 59 | 77 | 37 | 59 | 2 | .8 | -.4 | .8 | 7.8 | 127 | 17.6 | 72 | 94 | 63 | 0 | 0 | 2 | 2 | 0 | |
| UT ELANDING | 60 | 31 | 64 | 28 | 46 | 1 | 0 | 0 | 0 | 3.0 | 123 | 8.4 | 88 | 79 | 36 | 0 | 6 | 0 | 0 | 0 | |
| CEDAR CITY | 61 | 31 | 65 | 24 | 46 | 1 | T | T | T | 1.5 | 82 | 11.6 | 133 | 76 | 29 | 0 | 5 | 0 | 0 | 0 | |
| SALT LAKE CITY | 59 | 36 | 66 | 30 | 48 | 2 | .4 | .1 | .2 | 5.7 | 263 | 19.5 | 152 | 79 | 34 | 0 | 2 | 2 | 0 | 0 | |
| VT BURLINGTON | 59 | 33 | 74 | 27 | 46 | 4 | .3 | -.4 | .1 | 4.8 | 77 | 30.1 | 105 | 78 | 41 | 0 | 5 | 4 | 0 | 0 | |
| VA NORFOLK | 74 | 61 | 86 | 50 | 68 | 11 | .1 | -.6 | .1 | 2.5 | 31 | 39.9 | 101 | 88 | 60 | 0 | 0 | 1 | 1 | 0 | |
| WA RICHMOND | 68 | 50 | 80 | 36 | 59 | 12 | .1 | -.7 | .1 | 4.0 | 53 | 41.2 | 109 | 87 | 51 | 0 | 0 | 2 | 2 | 0 | |
| ROANOKE | 39 | 26 | 48 | 8 | 33 | -.7 | 1.3 | 1.0 | 1.0 | 4.1 | 60 | 39.1 | 115 | 93 | 57 | 0 | 0 | 1 | 1 | 0 | |
| WA COLVILLE | 48 | 36 | 53 | 24 | 42 | -.5 | 3.5 | .6 | 1.1 | 20.4 | 118 | 86.5 | 114 | 98 | 67 | 0 | 0 | 4 | 4 | 1 | |
| QUILLAYUTE | 49 | 38 | 54 | 31 | 43 | -.5 | 3.0 | 1.9 | 1.2 | 6.1 | 100 | 26.7 | 98 | 93 | 62 | 0 | 2 | 5 | 5 | 3 | |
| SEATTLE-TACOMA | 42 | 28 | 47 | 11 | 35 | -.6 | 1.0 | .6 | .8 | 2.2 | 112 | 12.8 | 104 | 90 | 52 | 0 | 1 | 5 | 5 | 3 | |
| SPOKANE | 49 | 27 | 58 | 17 | 38 | -.5 | .5 | -.4 | .5 | 1.1 | 126 | 6.4 | 110 | 74 | 37 | 0 | 5 | 6 | 3 | 1 | |
| WV YAKIMA | 69 | 47 | 80 | 30 | 58 | 12 | .7 | -.1 | .5 | 4.1 | 66 | 33.9 | 93 | 93 | 50 | 0 | 2 | 3 | 0 | 0 | |
| BECKLEY | 72 | 51 | 82 | 30 | 62 | 12 | .6 | 0 | .3 | 6.5 | 110 | 32.7 | 89 | 91 | 49 | 0 | 2 | 3 | 0 | 0 | |
| CHARLESTON | 70 | 51 | 81 | 32 | 60 | 10 | 2.1 | 1.5 | 1.8 | 7.7 | 136 | 32.3 | 93 | 87 | 52 | 0 | 1 | 4 | 4 | 0 | |
| HUNTINGTON | 69 | 52 | 81 | 33 | 60 | 11 | 1.8 | 1.2 | .8 | 4.8 | 92 | 26.1 | 72 | 93 | 58 | 0 | 0 | 4 | 4 | 1 | |
| PARKERSBURG | 50 | 25 | 59 | 18 | 37 | -.4 | 1.1 | .7 | .7 | 11.3 | 210 | 32.9 | 131 | 86 | 49 | 0 | 7 | 2 | 1 | 1 | |
| WI GREEN BAY | 48 | 26 | 53 | 19 | 37 | -.6 | 1.8 | 1.4 | 1.6 | 7.6 | 138 | 29.4 | 106 | 82 | 44 | 0 | 7 | 2 | 1 | 1 | |
| LA CROSSE | 51 | 23 | 60 | 18 | 37 | -.5 | 1.2 | .7 | .7 | 9.1 | 167 | 29.8 | 108 | 85 | 47 | 0 | 7 | 2 | 1 | 1 | |
| MADISON | 53 | 31 | 63 | 23 | 42 | -.2 | 1.8 | 1.3 | 1.5 | 8.8 | 166 | 33.7 | 125 | 88 | 52 | 0 | 4 | 2 | 1 | 1 | |
| MILWAUKEE | 44 | 22 | 51 | 15 | 33 | -.6 | 1.2 | .8 | .8 | 11.4 | 182 | 37.1 | 129 | 85 | 52 | 0 | 7 | 3 | 1 | 1 | |
| WAUSAU | 52 | 21 | 62 | 9 | 37 | -.3 | T | T | T | 1.2 | 71 | 11.9 | 116 | 81 | 26 | 0 | 6 | 6 | 2 | 0 | |
| WY CASPER | 54 | 23 | 66 | 15 | 39 | -.2 | T | T | T | 2.2 | 121 | 17.0 | 136 | 87 | 28 | 0 | 6 | 6 | 0 | 0 | |
| CHEYENNE | 52 | 24 | 61 | 12 | 38 | 0 | T | T | T | 1.4 | 66 | 12.3 | 103 | 68 | 25 | 0 | 6 | 6 | 0 | 0 | |
| LANDER | 52 | 23 | 61 | 12 | 38 | 0 | T | T | T | 2.2 | 91 | 13.1 | 97 | 86 | 38 | 0 | 6 | 6 | 0 | 0 | |
| SHERIDAN | 49 | 18 | 70 | 4 | 43 | -.6 | T | T | T | 1.4 | 66 | 12.3 | 103 | 68 | 25 | 0 | 6 | 6 | 0 | 0 | |
| FR SAN JUAN | 85 | 74 | 87 | 72 | 80 | -.1 | 2.5 | 1.7 | 1.7 | 10.4 | 85 | 36.3 | 82 | 83 | 64 | 0 | 4 | 4 | 1 | 1 | |

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

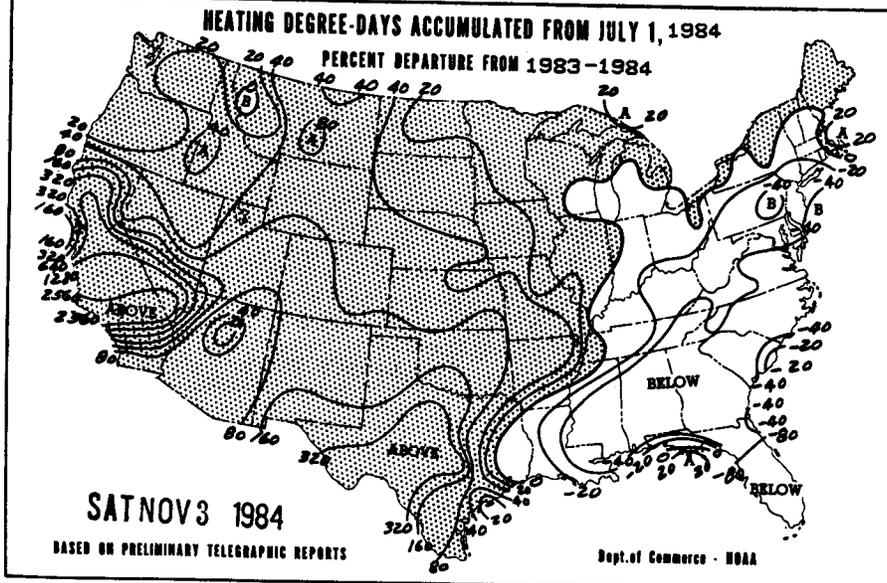
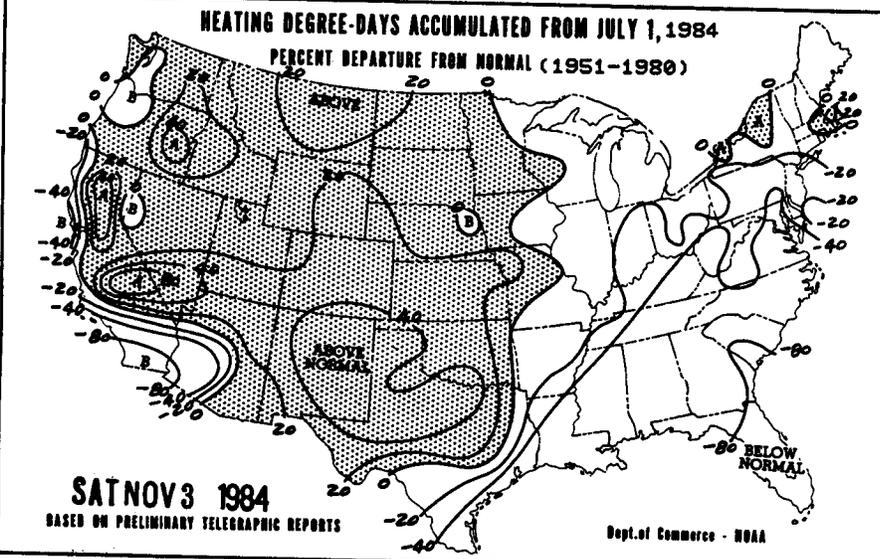
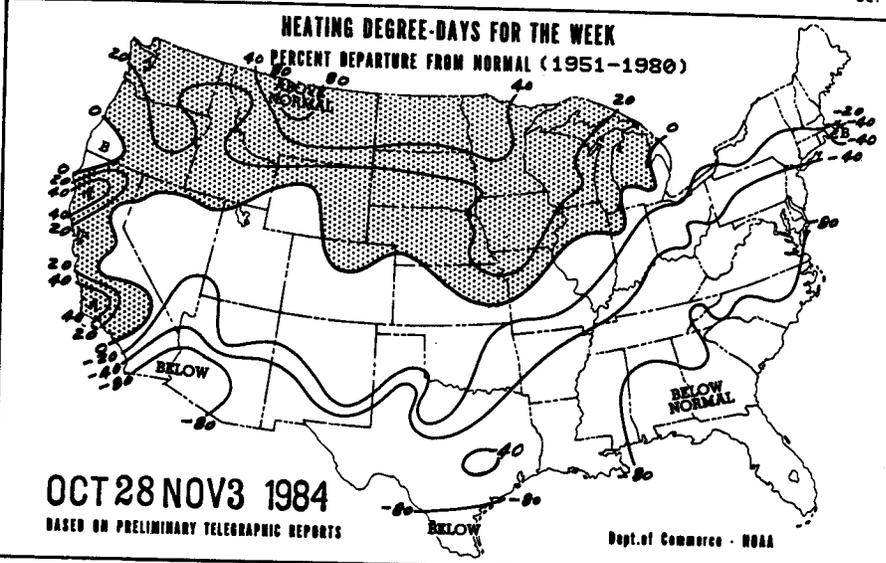
HEATING DEGREE DAY DATA WEEKLY SUMMARY
CLIMATE ANALYSIS CENTER-NMC-NWS-NOAA
ASSESSMENT AND INFORMATION SERVICES CENTER-NESDIS-NOAA

LAST DATE OF DATA COLLECTION PERIOD IS 11- 3-1984
ACCUMULATIONS ARE FROM JULY 1
** = NORMAL LESS THAN 100 OR RATIO INCALCULABLE

Table with columns: STATE CITY, CALL WEEK, WEEK WEEK, WEEK WEEK, CUM TOTAL, CUM DEV, CUM DEV, CUM DEV, CUM DEV. It lists weather data for various cities across the United States, including Birmingham, Atlanta, Chicago, and New York.

FAX CHART 136

OCT 73



OCTOBER WEATHER SUMMARY

HIGHLIGHTS: Most of the Nation's precipitation was above normal. The East Coast States, a small area in the central and southern Plains, the Southwest, and the western portion of the northern Plains and Rockies were the driest areas. Much of the Southeast from Florida to southern Virginia had less than half the normal rainfall. Very heavy rain fell from southeastern Texas to the lower Ohio Valley. Downpours in the upper Mississippi Delta damaged some crops. Rain in the central and southern Plains benefited winter grain planting and early growth, but delayed harvest in many other areas. Freezing temperatures ended the growing season from the northern Plains to Nebraska and the western Corn Belt. Temperatures averaged above normal east of the Plains, and below in the West. Much of the East was 5-9 degrees warmer than normal, and the West was 5-8 degrees colder than normal.

FIRST WEEK...Moisture from Tropical Storm Polo moved over the Southwest, spreading moderate showers from the central Plateau into the central Plains. Later, moisture from the Gulf of Mexico combined with the high level moisture to produce violent thunderstorms from northeastern Texas through Arkansas, to northern Mississippi, and western Tennessee. Lighter showers fell throughout the Mississippi Valley, the northern Plains, and the lower Great Lakes. Early-week moderate rain fell from northeastern Georgia through Virginia, Maryland, and New England. Colder-than-normal weather covered most of the Rockies and the East, but temperatures warmed as the week progressed. Another cold outbreak covered the Northeast late in the week.

SECOND WEEK...Showers and thunderstorms covered the Plains to the Appalachians. The rain especially benefited in the central and southern Plains, where newly planted grain needed moisture. However, some grain areas remained dry. Heavy downpours caused some local flooding in parts of south central Texas and Kansas. A winter-like storm off the Northwest coast brought high winds and showers to the coastline, and snow to the higher elevations of the Cascades and Rockies. Hurricane Josephine moved northward off the east coast and, by the week's end, brought heavy surf and gale winds to the coast from the Carolinas to New Jersey. Temperatures averaged warmer than normal over most of the Nation, especially in the northern Plains and Lakes areas.

THIRD WEEK...Precipitation fell in most of the Nation. Only the Southwest, southwestern Texas, and Florida remained dry. Snow piled deep on the Plateau and the Rockies. Thunderstorms produced heavy downpours on the southeastern Texas coast, and from eastern Oklahoma through Arkansas to the upper Delta region, and in much of Minnesota. Most of the east coast had only light rain. Temperatures fell below normal from the Plains westward, and above normal to the East. Record low temperatures

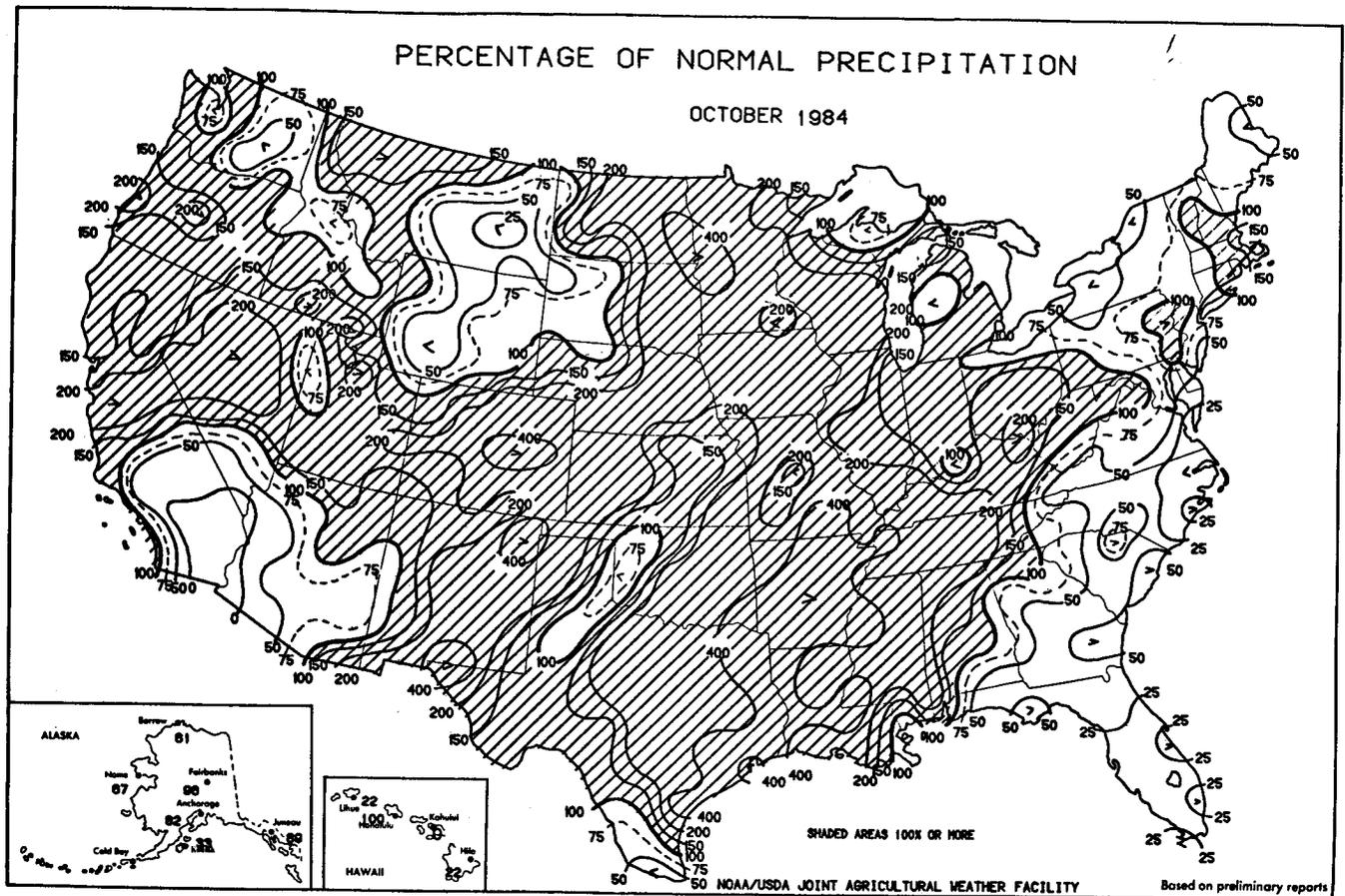
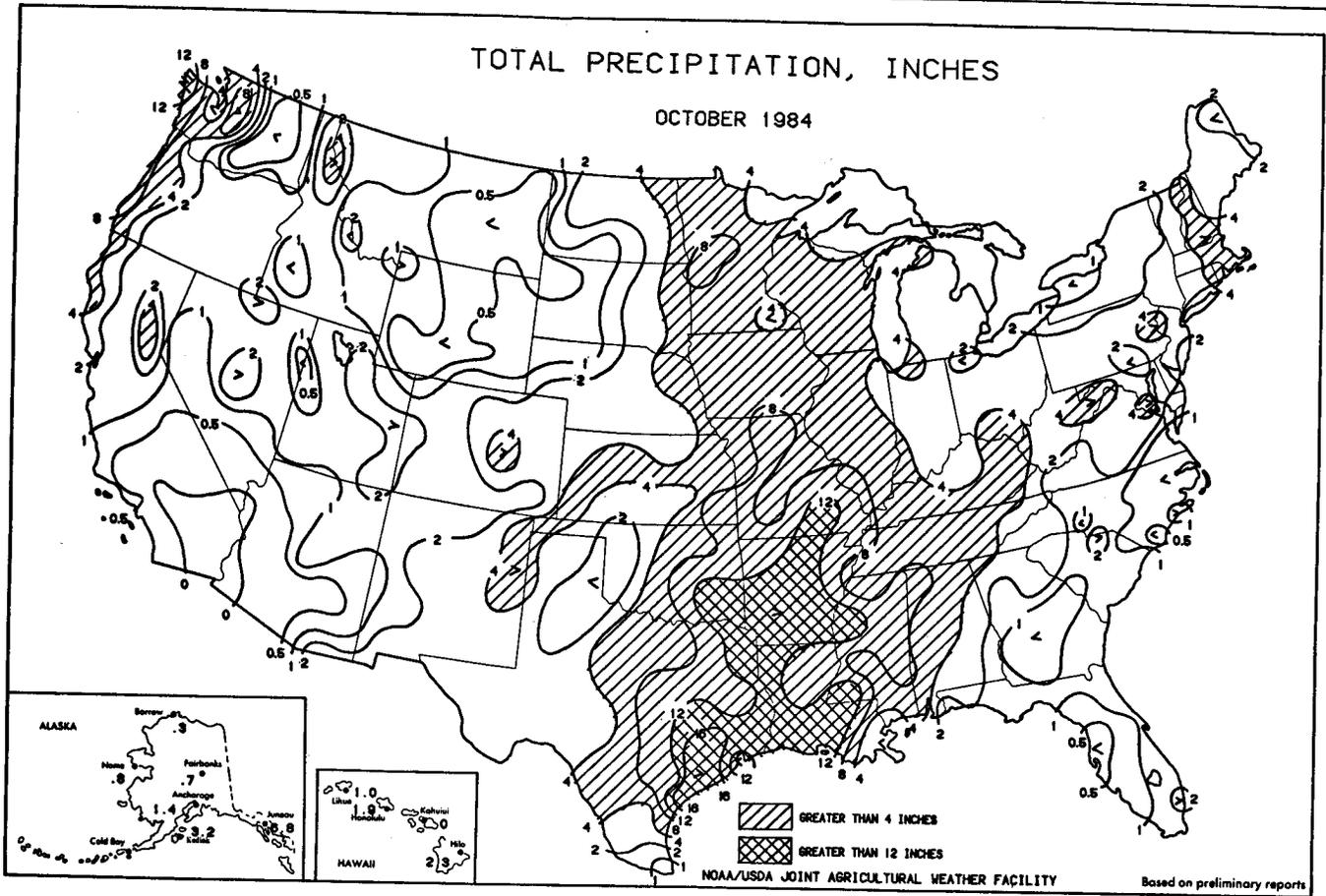
were recorded in parts of the Rockies and Plateau, while record high temperatures occurred in the Southeast.

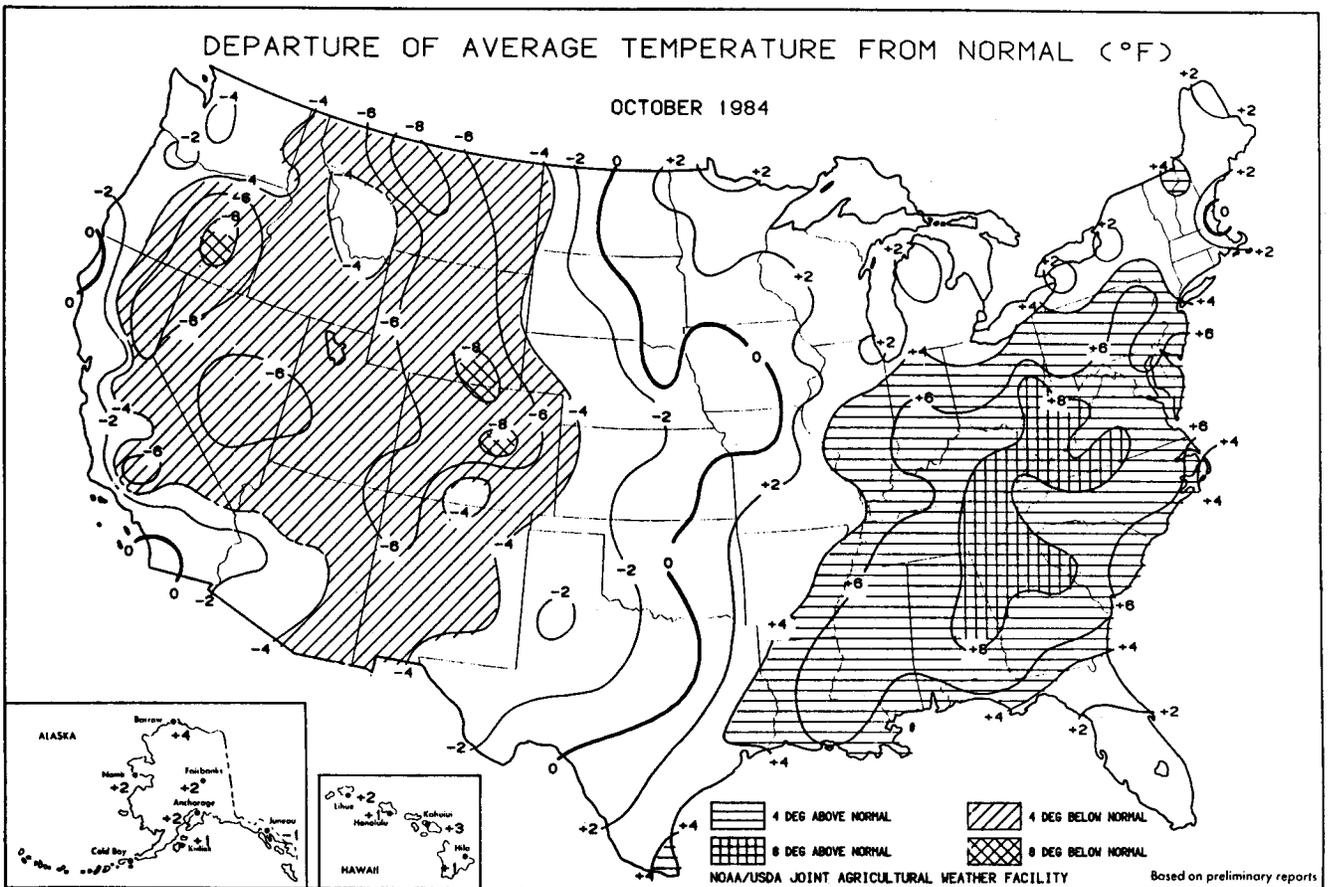
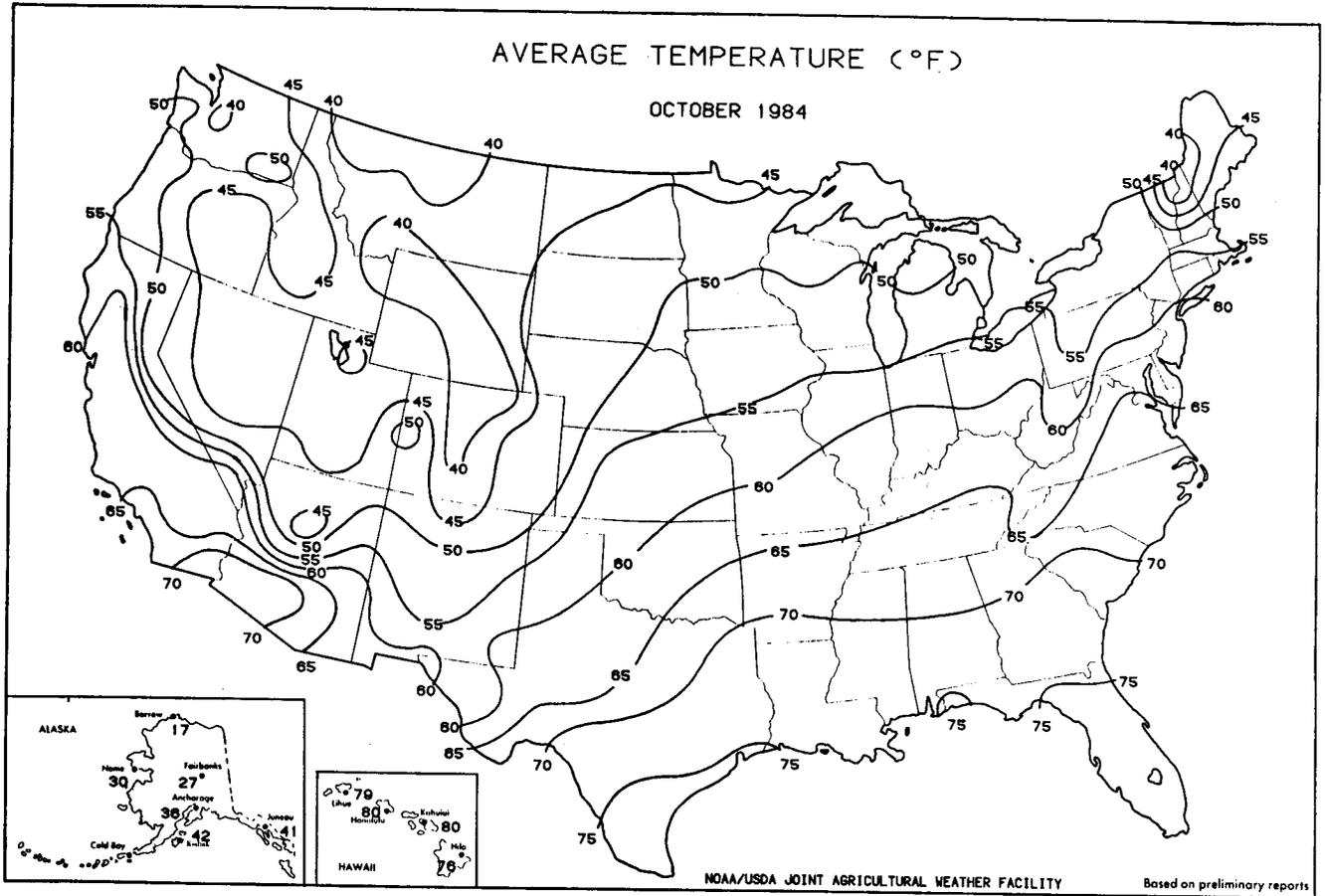
FOURTH WEEK...A near continuous moisture flow from the Gulf of Mexico caused moderate to heavy thunderstorms from much of Texas northeastward to southern New England, and eastward to Alabama and the Appalachians through Virginia, Maryland, and Pennsylvania. Lighter showers covered the rest of the Nation except the Southwest. Snow covered the higher elevations of the Plateau and Rockies. Temperatures averaged warmer than normal in the East, and colder in the West.

WINTER WHEAT SEEDING

Dry conditions delayed seeding of the 1985 winter wheat crop in the Southeast, but long-awaited rain allowed early-month planting in the west-central Plains. Persistent heavy rain throughout October from eastern Texas through the eastern Corn Belt delayed seeding and eroded some fields. Planting was 86 percent complete by November 4, trailing last year's 91 percent and the 92 percent average. Seeding was completed in Idaho, Montana, Nebraska, and South Dakota; and nearing completion in Colorado and Washington as the month ended. Seventy-one percent of the seeded acreage emerged, compared with 79 percent for both last year and the average. Stands rated mostly good, but excessive moisture caused some field yellowing in the Texas Blacklands and Delta States.

Kansas winter wheat seeding was 90 percent complete, equal to last year but 7 points behind average. Soil moisture was adequate to surplus, and stands rated mostly good to excellent. Planting was 80 percent finished in Oklahoma, trailing the 90 percent average. However, previous dryness left emergence at only 45 percent, 20 points slower than normal. Texas wheat showed good growth with ample moisture statewide. Seeding operations were 88 percent complete, 5 points ahead of schedule. Sixty-six percent of the acreage emerged, slightly ahead of normal. Wet weather delayed seeding in the eastern Corn Belt. Progress was 44 points behind schedule in Illinois, 31 points behind in Missouri, and 24 points slower than normal in Indiana. Montana planting was finished and 65 percent emerged, 25 points slower than normal. Stands rated mostly fair, but were good in the west and southeast. Seeding and emergence were virtually on schedule in Washington. Wet weather delayed planting in Oregon, where 87 percent of the acreage was seeded, 6 points behind average.





Temperature and Precipitation Data for October 1984

| States and Stations | Temperature °F | | Precipitation Inches | | States and Stations | Temperature °F | | Precipitation Inches | | States and Stations | Temperature °F | | Precipitation Inches | |
|---------------------|----------------|-----------|----------------------|-----------|---------------------|----------------|-----------|----------------------|-----------|---------------------|----------------|-----------|----------------------|-----------|
| | Average | Departure | Total | Departure | | Average | Departure | Total | Departure | | Average | Departure | Total | Departure |
| AL BIRMINGHAM | 69 | 6 | 4.6 | 2.0 | BATON ROUGE | 74 | 6 | 14.4 | 11.8 | COLUMBUS | 59 | 6 | 2.9 | 1.0 |
| MOBILE | 73 | 0 | 6.2 | 3.6 | LAKE CHARLES | 74 | 5 | 12.3 | 8.8 | DAYTON | 59 | 5 | 3.5 | 1.5 |
| AK ANCHORAGE | 36 | 2 | 1.4 | -0.3 | NEW ORLEANS | 73 | 5 | 2.8 | 0.2 | TOLEDO | 55 | 4 | 1.8 | -0.2 |
| BARROW | 17 | 4 | 0.3 | -0.2 | SHREVEPORT | 71 | 4 | 12.0 | 9.4 | OK YOUNGSTOWN | 56 | 5 | 2.2 | -0.4 |
| FAIRBANKS | 27 | 2 | 0.7 | -0.0 | ME CARIBOU | 45 | 2 | 1.8 | -1.3 | OKLAHOMA CITY | 62 | 0 | 6.8 | 4.1 |
| JUNEAU | 41 | -1 | 6.8 | -0.8 | PORTLAND | 49 | 1 | 3.3 | -0.6 | TULSA | 64 | -2 | 7.0 | 3.7 |
| KODIAK | 42 | 1 | 3.2 | -6.7 | MD BALTIMORE | 62 | 5 | 1.8 | -1.3 | OR ASTORIA | 51 | -2 | 8.1 | 1.7 |
| NOME | 30 | 2 | 0.8 | -0.4 | SALLISBURY | 64 | 7 | 1.1 | -2.6 | BURNS | 40 | -8 | 1.0 | 0.1 |
| AZ FLAGSTAFF | 42 | -5 | 1.4 | -0.1 | MA BOSTON | 53 | -1 | 5.2 | 1.8 | MEDFORD | 52 | -2 | 1.9 | 0.2 |
| PHOENIX | 71 | -2 | 0.3 | -0.3 | CHATHAM | 55 | 1 | 5.6 | 1.9 | PENDLETON | 49 | -3 | 1.0 | 0.0 |
| PRESCOTT | 52 | -2 | 0.1 | -1.1 | MI ALPENA | 48 | 2 | 2.8 | 0.8 | PORTLAND | 53 | -1 | 3.8 | 0.7 |
| TUCSON | 66 | -4 | 0.8 | -0.1 | DETROIT | 55 | 3 | 2.3 | 0.2 | SALEM | 51 | -1 | 4.2 | 0.8 |
| WINSLOW | 53 | -4 | 1.2 | 0.3 | FLINT | 54 | 4 | 2.5 | 0.3 | PA ALLENTOWN | 59 | 6 | 4.3 | 1.2 |
| YUMA | 73 | -2 | 0.0 | -0.3 | GRAND RAPIDS | 54 | 4 | 3.3 | 0.4 | ERIE | 56 | 5 | 1.8 | -1.6 |
| AR FORT SMITH | 64 | 2 | 11.8 | 8.6 | HOUGHTON LAKE | 50 | 3 | 2.1 | -0.2 | HARRISBURG | 62 | 7 | 2.0 | -0.7 |
| LITTLE ROCK | 65 | 2 | 14.0 | 11.3 | LANING | 53 | 2 | 3.1 | 0.9 | PHILADELPHIA | 61 | 5 | 2.5 | -0.4 |
| CA BAKERSFIELD | 62 | -6 | 0.1 | -0.2 | MARQUETTE | 46 | 3 | 2.2 | -1.1 | PITTSBURGH | 58 | 6 | 3.3 | 0.9 |
| BUREKA | 55 | 1 | 3.7 | 0.9 | MUSKOGON | 53 | 2 | 2.3 | -0.5 | SCRANTON | 58 | 7 | 2.3 | -0.5 |
| FRESNO | 63 | -2 | 0.7 | 0.3 | SAULT STE. MARI | 47 | 2 | 3.5 | 0.7 | RI PROVIDENCE | 56 | 3 | 4.3 | 0.5 |
| LOS ANGELES | 66 | -1 | 0.3 | 0.0 | MIN ALEXANDRIA | 48 | 2 | 8.1 | 6.3 | SC CHARLESTON | 71 | 6 | 1.7 | -1.2 |
| RED BLUFF | 60 | -5 | 1.9 | 0.6 | DULUTH | 46 | 2 | 5.2 | 3.0 | COLUMBIA | 69 | 7 | 0.8 | -1.7 |
| SACRAMENTO | 63 | 0 | 1.0 | 0.1 | INT'L FALLS | 45 | 2 | 4.1 | 2.3 | FLORENCE | 70 | 6 | 0.4 | -1.9 |
| SAN DIEGO | 69 | 1 | 0.3 | -0.1 | MINNEAPOLIS | 51 | 2 | 5.5 | 3.6 | GREENVILLE | 67 | 7 | 2.3 | -1.2 |
| SAN FRANCISCO | 60 | -1 | 1.9 | 0.8 | ROCHESTER | 50 | 1 | 3.8 | 1.7 | SD ABERDEEN | 49 | 1 | 2.9 | 1.9 |
| CO DENVER | 45 | -7 | 3.5 | 2.5 | ST CLOUD | 49 | 2 | 5.8 | 3.7 | HURON | 49 | 1 | 3.4 | 2.0 |
| GRAND JUNCTION | 50 | -4 | 2.6 | 1.7 | MS GREENWOOD | 70 | 6 | 127 | 9.8 | RAPID CITY | 47 | -2 | 0.7 | -0.1 |
| PUEBLO | 50 | -4 | 2.6 | 1.8 | JACKSON | 71 | 7 | 7.7 | 5.1 | ST LOUIS | 51 | 2 | 4.1 | 2.5 |
| CT BRIDGEPORT | 58 | 3 | 2.6 | -0.8 | MERIDIAN | 72 | 8 | 9.4 | 6.9 | TN CHATTANOOGA | 67 | 7 | 6.4 | 3.5 |
| HARTFORD | 55 | 3 | 2.8 | -0.7 | MO COLUMBIA | 58 | 2 | 4.5 | 1.2 | KNOXVILLE | 68 | 9 | 3.3 | 0.5 |
| DC WASHINGTON | 65 | 6 | 3.1 | 0.2 | KANSAS CITY | 57 | -1 | 6.0 | 3.0 | MEMPHIS | 68 | 6 | 7.7 | 5.4 |
| FL APALACHICOLA | 73 | 3 | 1.8 | -1.3 | SAINT LOUIS | 62 | 4 | 7.1 | 4.8 | NASHVILLE | 67 | 7 | 6.0 | 3.4 |
| DAYTONA BEACH | 76 | 3 | 1.1 | -3.5 | SPRINGFIELD | 60 | 2 | 5.7 | 2.5 | TX ABILENE | 64 | -2 | 5.2 | 2.9 |
| FT. MYERS | 78 | 1 | 0.7 | -3.2 | MT BILLINGS | 42 | -7 | 0.4 | -0.8 | AMARILLO | 57 | -2 | 3.2 | 1.8 |
| JACKSONVILLE | 72 | 3 | 1.5 | -1.8 | GLASGOW | 42 | -4 | 0.6 | 0.0 | AUSTIN | 70 | 1 | 10.3 | 7.0 |
| KEY WEST | 80 | 0 | 1.4 | -3.3 | GREAT FALLS | 41 | -7 | 1.0 | 0.2 | BEAUMONT | 75 | 5 | 14.9 | 11.3 |
| MIAMI | 78 | 0 | 2.4 | -4.7 | HAVRE | 38 | -7 | 1.0 | 0.4 | BROWNSVILLE | 79 | 4 | 0.9 | -2.5 |
| ORLANDO | 75 | 1 | 0.6 | -2.2 | HELENA | 42 | -3 | 0.8 | 0.1 | CORPUS CHRISTI | 76 | 3 | 6.5 | 3.4 |
| TALLAHASSEE | 73 | 5 | 1.4 | -1.6 | KALISPELL | 39 | -4 | 1.9 | 0.8 | DEL RIO | 71 | 1 | 2.9 | 0.7 |
| TAMPA | 76 | 1 | 0.3 | -2.0 | MILES CITY | 44 | -4 | 0.1 | -0.8 | EL PASO | 62 | -2 | 3.3 | 2.6 |
| WEST PALM BEACH | 77 | 0 | 1.7 | -6.0 | MISSOULA | 43 | -1 | 1.0 | 0.1 | FORT WORTH | 67 | -1 | 6.4 | 4.0 |
| GA ATLANTA | 70 | 8 | 1.5 | -1.0 | NE GRAND ISLAND | 52 | -1 | 3.5 | 2.5 | GALVESTON | 75 | 3 | 9.0 | 6.4 |
| AUGUSTA | 72 | 9 | 1.0 | -1.0 | LINCOLN | 53 | -1 | 3.9 | 2.2 | HOUSTON | 74 | 5 | 16.1 | 12.4 |
| MACON | 72 | 7 | 0.7 | -1.3 | NORFOLK | 53 | 1 | 4.3 | 3.0 | LUBBOCK | 60 | -1 | 1.7 | -0.1 |
| SAVANNAH | 73 | 7 | 1.1 | -1.1 | NORTH PLATTE | 48 | -2 | 2.4 | 1.5 | MIDLAND | 62 | -2 | 2.0 | 0.6 |
| HI HILO | 76 | 1 | 2.3 | -7.9 | OMAHA | 53 | -1 | 4.5 | 2.5 | SAN ANGELO | 64 | -2 | 3.7 | 1.7 |
| HONOLULU | 80 | 1 | 1.9 | 0.0 | SCOTTSBLUFF | 46 | -3 | 0.9 | 0.2 | SAN ANTONIO | 71 | 1 | 6.0 | 3.1 |
| KAHULUI | 80 | 3 | 0.0 | -0.9 | VALENTINE | 48 | -1 | 0.5 | -0.3 | VICTORIA | 75 | 4 | 8.5 | 5.3 |
| LIHUE | 79 | 2 | 1.0 | -3.6 | NV ELKO | 43 | -5 | 1.8 | 1.2 | WACO | 69 | 1 | 10.5 | 7.5 |
| ID BOISE | 47 | -4 | 0.8 | 0.0 | ELY | 40 | -5 | 1.4 | 0.9 | WICHITA FALLS | 63 | -1 | 6.2 | 3.7 |
| LEWISTON | 49 | -3 | 0.8 | -0.2 | LAS VEGAS | 63 | -4 | 0.0 | -0.3 | UT BLANDING | 46 | -5 | 2.1 | 0.7 |
| POCATELLO | 44 | -4 | 0.9 | -0.1 | RENO | 47 | -3 | 0.6 | 0.3 | CEDAR CITY | 46 | -5 | 1.5 | 0.7 |
| IL CAIRO | 64 | 3 | 7.9 | 4.4 | WINNEMUCCA | 44 | -4 | 1.8 | 1.2 | MILFORD | 44 | -6 | 1.3 | 0.6 |
| CHICAGO | 55 | 2 | 3.1 | 0.9 | NH CONCORD | 50 | 3 | 4.4 | 1.3 | SALT LAKE CITY | 50 | -3 | 3.8 | 2.7 |
| MOLINE | 55 | 2 | 6.6 | 4.0 | NJ ATLANTIC CITY | 62 | 7 | 1.5 | -1.6 | VA NORFOLK | 67 | 6 | 0.6 | -2.8 |
| PEORIA | 58 | 4 | 5.1 | 2.6 | NM ALBUQUERQUE | 52 | -5 | 3.2 | 2.3 | RICHMOND | 66 | 8 | 2.1 | -1.6 |
| QUINCY | 58 | 3 | 6.0 | 2.8 | CLOVIS | 56 | -3 | 4.4 | 2.6 | ROANOKE | 64 | 8 | 1.4 | -2.1 |
| ROCKFORD | 54 | 3 | 5.6 | 2.7 | ROSWELL | 58 | -4 | 2.3 | 1.3 | WA COLVILLE | 43 | -3 | 0.8 | -0.4 |
| SPRINGFIELD | 60 | 4 | 4.7 | 2.2 | ALBANY | 54 | 3 | 2.5 | -0.4 | QUILLAYUTE | 48 | -6 | 13.9 | 3.3 |
| IN EVANSVILLE | 63 | 6 | 5.1 | 2.6 | BINGHAMTON | 54 | 5 | 1.6 | -1.4 | SEATTLE-TACOMA | 50 | -2 | 2.1 | -1.4 |
| FORT WAYNE | 58 | 6 | 3.2 | 0.6 | BUFFALO | 53 | 2 | 0.9 | -2.1 | SPOKANE | 44 | -3 | 0.8 | -0.3 |
| INDIANAPOLIS | 61 | 7 | 2.6 | 0.1 | NEW YORK | 62 | 5 | 3.0 | -0.2 | WALLA WALLA | 51 | -3 | 1.7 | 0.3 |
| SOUTH BEND | 57 | 4 | 4.4 | 1.2 | ROCHESTER | 55 | 3 | 0.8 | -1.8 | YAKIMA | 47 | -2 | 0.2 | -0.3 |
| IA DES MOINES | 53 | -1 | 6.3 | 4.1 | SYRACUSE | 52 | 1 | 2.0 | -1.2 | WV BECKLEY | 61 | 9 | 2.2 | -0.4 |
| DUBUQUE | 54 | 3 | 6.5 | 3.6 | NC ASHEVILLE | 63 | 7 | 2.7 | -0.5 | CHARLESTON | 64 | 9 | 3.3 | 0.6 |
| SIoux CITY | 53 | -1 | 4.6 | 2.9 | CHARLOTTE | 68 | 7 | 0.8 | -2.0 | HUNTINGTON | 63 | 7 | 4.9 | 2.5 |
| WATERLOO | 52 | 2 | 5.4 | 3.0 | GREENSBORO | 65 | 7 | 1.2 | -2.0 | PARKERSBURG | 63 | 9 | 3.0 | 0.9 |
| KS CONCORDIA | 55 | -1 | 2.2 | 0.4 | HATTERAS | 69 | 4 | 0.5 | -4.3 | WI GREEN BAY | 51 | 3 | 4.9 | 2.9 |
| DODGE CITY | 56 | -1 | 2.9 | 1.6 | NEW BERN | 70 | 6 | 0.5 | -2.8 | LA CROSSE | 52 | 2 | 5.1 | 3.0 |
| GOODLAND | 49 | -3 | 3.3 | 2.4 | RALEIGH | 66 | 7 | 0.7 | -2.1 | MADISON | 52 | 3 | 5.6 | 3.4 |
| TOPEKA | 57 | 0 | 4.1 | 1.3 | WILMINGTON | 69 | 4 | 0.5 | -2.4 | MILWAUKEE | 53 | 2 | 5.2 | 2.9 |
| WICHITA | 58 | -1 | 2.7 | 0.3 | ND BISMARCK | 45 | 0 | 1.0 | 0.2 | WAUSAU | 49 | 2 | 6.3 | 4.1 |
| KY BOWLING GREEN | 63 | 5 | 5.7 | 2.8 | FARGO | 47 | 2 | 6.5 | 5.3 | WY CASPER | 40 | -6 | 0.7 | -0.2 |
| JACKSON | 64 | 5 | 4.1 | 2.0 | GRAND FORKS | 46 | 2 | 3.2 | 2.1 | CHEYENNE | 40 | -7 | 1.5 | 0.8 |
| LEXINGTON | 63 | 7 | 3.9 | 1.6 | WILLISTON | 41 | -4 | 0.5 | -0.2 | LANDER | 42 | -5 | 0.6 | -0.6 |
| LOUISVILLE | 64 | 6 | 2.1 | -0.5 | OH AKRON-GANTON | 57 | 4 | 2.6 | 0.4 | SHERIDAN | 41 | -5 | 0.3 | -0.9 |
| LA ALEXANDRIA | 72 | 4 | 9.8 | 5.7 | CINCINNATI | 61 | 7 | 3.9 | 1.3 | FR SAN JUAN | 81 | 0 | 5.1 | -0.6 |
| | | | | | CLEVELAND | 56 | 3 | 2.2 | -0.3 | | | | | |

Based on 1951-80 normals.

Heating Degree Days (Base 65° F.)

October 1984

| | | | | | |
|----------------------------|------|-------------------------------|-----|-----------------------------|-----|
| ALA. Birmingham . . . | 25 | MAINE, Caribou . . . | 630 | OKLA. Okla. City . . . | 162 |
| Mobile | 17 | Portland | 469 | Tulsa | 130 |
| Montgomery | 16 | MD. Baltimore | 123 | OREG. Astoria | 452 |
| ALASKA, Anchorage . . . | 906 | MASS. Boston | 359 | Burns | 777 |
| Barrow | 1478 | Chatham | 302 | Medford | 416 |
| Fairbanks | 1205 | MICH. Alpena | 498 | Pendleton | 490 |
| Nome | 1094 | Detroit | 310 | Portland | 377 |
| ARIZ. Flagstaff | 696 | Flint | 317 | Salem | 418 |
| Phoenix | 7 | Grand Rapids | 333 | PA. Allentown | 180 |
| Tucson | 49 | Houghton Lake | 481 | Erie | 262 |
| Winslow | 365 | Lansing | 373 | Harrisburg | 131 |
| Yuma | 2 | Marquette | 560 | Philadelphia | 138 |
| ARK. Fort Smith | 99 | S. Ste. Marie | 560 | Pittsburgh | 214 |
| Little Rock | 80 | MINN. Duluth | 588 | Scranton | 219 |
| CALIF. Bakersfield . . . | 140 | Internatl Falls | 626 | R.I. Providence | 271 |
| Eureka | 295 | Minneapolis | 434 | S.C. Charleston | 13 |
| Fresno | 129 | Rochester | 470 | Columbia | 22 |
| Los Angeles | 29 | St. Cloud | 492 | Greenville | 32 |
| Red Bluff | 176 | MISS. Jackson | 27 | S. DAK. Aberdeen | 514 |
| Stockton | 136 | Meridian | 30 | Huron | 493 |
| San Diego | 4 | MO. Columbia | 213 | Rapid City | 546 |
| San Francisco | 147 | Kansas City | 269 | Sioux Falls | 451 |
| COLO. Denver | 622 | St. Louis | 151 | TENN. Chattanooga | 40 |
| Grand Junction | 452 | Springfield | 168 | Knoxville | 30 |
| Pueblo | 474 | MONT. Billings | 701 | Memphis | 48 |
| CONN. Bridgeport | 219 | Glasgow | 705 | Nashville | 63 |
| Hartford | 298 | Great Falls | 760 | TEX. Abilene | 108 |
| D.C. Washington | 59 | Havre | 829 | Amarillo | 262 |
| FLA. Apalachicola | 10 | Helena | 716 | Austin | 34 |
| Ft. Myers | 0 | Kalispell | 817 | Beaumont | 8 |
| Jacksonville | 5 | Miles City | 664 | Brownsville | 2 |
| Key West | 0 | Missoula | 692 | Corpus Christi | 5 |
| Miami | 0 | NEBR. Grand Island | 405 | Del Rio | 22 |
| Orlando | 0 | Lincoln | 366 | El Paso | 144 |
| W. Palm Beach | 0 | Norfolk | 375 | Fort Worth | 66 |
| Tallahassee | 0 | North Platte | 519 | Galveston | 1 |
| Tampa | 0 | Omaha | 363 | Houston | 12 |
| GA. Atlanta | 22 | Valentine | 544 | Lubbock | 194 |
| Augusta | 16 | NEV. Ely | 759 | Midland | 135 |
| Macon | 23 | Las Vegas | 127 | San Angelo | 90 |
| Savannah | 8 | Reno | 575 | San Antonio | 28 |
| IDAHO, Boise | 557 | Winnemucca | 645 | Victoria | 6 |
| Lewiston | 510 | N. H. Concord | 446 | Waco | 41 |
| Pocatello | 648 | N. J. Atlantic City | 129 | Wichita Falls | 129 |
| ILL. Cairo | 103 | N. MEX. Albuquerque | 411 | UTAH, Milford | 641 |
| Chicago | 320 | N. Y. Albany | 344 | Salt Lake City | 480 |
| Moline | 303 | Binghamton | 341 | VT. Burlington | 460 |
| Peoria | 246 | Buffalo | 360 | VA. Lynchburg | 59 |
| Rockford | 322 | New York | 101 | Norfolk | 37 |
| Springfield | 194 | Rochester | 307 | Richmond | 57 |
| IND. Evansville | 186 | Syracuse | 390 | Roanoke | 74 |
| Fort Wayne | 204 | N. C. Asheville | 91 | WASH. Colville | - |
| Indianapolis | 138 | Charlotte | 31 | Quillayute | 525 |
| South Bend | 244 | Greensboro | 53 | Seattle-Tacoma | 467 |
| IOWA, Des Moines | 375 | Hatteras | 22 | Spokane | 662 |
| Dubuque | 339 | Raleigh | 42 | Walla Walla | 431 |
| Soux City | 405 | Wilmington | 18 | Yakima | 546 |
| KANS. Concordia | 311 | N. DAK. Bismarck | 602 | W. VA. Beckley | 137 |
| Dodge City | 295 | Fargo | 541 | Charleston | 74 |
| Goodland | 503 | Williston | 741 | Huntington | 91 |
| Topeka | 276 | OHIO. Akron-Canton | 254 | WIS. Green Bay | 429 |
| Wichita | 237 | Cincinnati | 128 | Madison | 397 |
| KY. Lexington | 84 | Cleveland | 271 | Milwaukee | 373 |
| Louisville | 84 | Columbus | 182 | WYO. Casper | 767 |
| LA. Baton Rouge | 16 | Dayton | 191 | Cheyenne | 770 |
| Lake Charles | 14 | Toledo | 297 | Lander | 721 |
| New Orleans | 14 | Youngstown | 271 | Sheridan | 730 |
| Shreveport | 36 | | | | |

Based on 1951-80 normals.

National Agricultural Summary

October 29 to November 4

HIGHLIGHTS: Heavy rains at midweek halted row crop harvesting and small grain seeding across the central and eastern Corn Belt; while scattered showers slowed field activities in the Delta States. Much needed rain allowed increased small grain seeding in parts of Georgia, but the rest of the Southeast continued very dry. Open weather allowed rapid small grains' harvesting and seeding across much of the Great Plains, western Corn Belt, and East of the Appalachians. Late-week freezing temperatures ended vegetable growth across the Ohio Valley and most of the Northeast. Farmers in the eastern Corn Belt and Delta States generally had less than 4 days suitable for fieldwork, while the remainder of the Nation had 4-6 days available. Soil moisture was adequate to surplus across much of the Nation's midsection; short to adequate in the Southeast, and generally adequate elsewhere.

Winter wheat was 86% seeded and 71% emerged; both trailed normal, especially in the eastern Corn Belt and Delta States. Corn harvesting reached 64% completion, 8 points behind schedule. Wet conditions continued delaying progress in the eastern Corn Belt. Soybeans were 53% combined, 25 points behind normal. Sorghum was 71% harvested, compared with the 79% average. Cotton bolls opened on 87% of the acreage and 38% was picked. Normally 94% has open bolls and 51% is harvested. Rice harvesting reached 94% completion, 4 points slower than normal. Vegetable harvesting increased seasonally in the South, as frost ended growth in the North. Pastures improved with ample moisture and warm temperatures across most of the South, except in the Southeast. Livestock rated fair to mostly good. Supplemental feeding continued in most northern regions.

SMALL GRAINS: Winter wheat seeding in the 15 major producing States reached 86% completion, compared with 91% a year earlier and the 92% average. Wet weather limited progress in portions of the Corn Belt. Illinois lagged normal by 44 points, Missouri 31 points, and Indiana by 24 points. Seeding was finished or neared completion in Colorado, Idaho, Montana, Nebraska, South Dakota, and Washington. Plants emerged on 71% of the acreage, 8 points slower than both last year and the average. Kansas wheat continued in mostly good condition, with 90% seeded and 80% of the acreage emerged. Oklahoma's wheat rated fair to good, but cloudy weather limited growth. Excessive moisture caused some field yellowing in the Texas Blacklands and Delta States.

CORN: Harvesting reached 64% completion in the 17 major producing States, trailing last year's 89% and the 72% average. Combining was generally on schedule in the western Corn Belt and Southeast, but lagged normal by 16 points in the eastern Corn Belt. Wet weather left combining 30 points behind normal in Ohio, 29 points in Kentucky, 26 points in Pennsylvania, 20 points in Indiana, and 19 points behind schedule in Illinois and South Dakota.

SOYBEANS: Harvesting advanced only 7% during the week, reaching 53% completion in the 18 major producing States. This compares with 77% a year earlier and the 78% average. Combining was behind schedule in all States except Georgia. Wet weather limited harvesting and caused crop deterioration in some areas. Harvesting was 32 points behind schedule in the South-central States, 31 points

behind in the eastern Corn Belt, 20 points in the western Corn Belt, and just slightly slower than normal in the Southeast.

COTTON: Bolls opened on 87% of the acreage, 7 points slower than normal. Harvesting was 38% complete in the 14 major producing States, well behind the 54% a year ago and the 51% average. Progress lagged in all States except Arizona, California, and Oklahoma. Heavy rains left Delta harvesting 37 points behind schedule. Southeastern picking was 10 points slower than normal, while western harvesting was 3 points ahead of schedule. Damp weather limited fieldwork in Texas, where only a quarter of the crop was harvested, compared with the 35% average. Defoliants were ineffective because of rains.

OTHER CROPS: Sorghum combining was 71% complete in the 7 major States, 8 points behind average. Progress trailed normal in all States, except Nebraska which was on schedule. Harvesting was 37 points behind schedule in Colorado, but was only 5 points slower than normal in Kansas, and 8 points behind schedule in Texas.

Rice harvesting neared completion in all States, except Arkansas was only 87% finished, 11 points behind normal. Arkansas rice rated mostly fair.

Peanut digging lagged normal by 17 points in Texas, reaching only 46% completion because of wet weather. Threshing was 98% complete in Georgia and Virginia, 97% finished in North Carolina, and 91% complete in Mississippi.

Tobacco curing, grading, and marketing continued active. The Tennessee burley crop was 38% stripped, while the Kentucky crop was only 15% stripped; both behind schedule.

FRUITS AND NUTS: Apple picking was virtually complete. Florida's citrus groves continued in good condition but new growth was slow. Early fruit harvesting increased. Arizona producers packed lemons and grapefruit and picked some oranges. California's desert grapefruit and lemons rated good. Tangerine and Navel orange picking began. Emperor table grape harvesting continued. Pecan harvesting got underway in New Mexico, while reaching 12 and 24% completion in Texas and Georgia, respectively. The crop rated mostly fair.

VEGETABLES: Late-week freezing temperatures halted fall vegetable growth in the Ohio Valley and the Northeast. Florida's producers harvested increasing volumes of most vegetables. Planting continued active in the southwest and southeast. Texas producers continued planting and harvesting as fields dried out. Arizona's lettuce, melon, and cantaloup harvesting continued active. California growers harvested light to moderate volumes of artichokes, broccoli, cantaloup, carrots, cauliflower, celery, lettuce, and honeydew melons. Green pepper and sweetpotato harvesting neared completion.

PASTURES AND LIVESTOCK: Pastures and ranges rated fair to mostly good. Warm temperatures and ample moisture across most of the South accelerated new grass growth. Dry conditions continued to limit growth in the Southeast. Livestock were in fair to mostly good condition. Supplemental feeding continued necessary in some areas.

CROP PROGRESS

FOR WEEK ENDING NOV 4

WINTER WHEAT
% PLANTED

| | 1984 | 1983 | AVG. |
|-----------|------|------|------|
| CALIF | 20 | 30 | 30 |
| COLO | 97 | 98 | 99 |
| IDAHO | 100 | 100 | 98 |
| ILL | 50 | 96 | 94 |
| IND | 68 | 97 | 92 |
| KANS | 90 | 90 | 97 |
| MO | 49 | 82 | 80 |
| MONT | 100 | 100 | 100 |
| NEBR | 100 | 100 | 100 |
| OHIO | 85 | 98 | 95 |
| OKLA | 80 | 90 | 90 |
| OREG | 87 | 92 | 93 |
| S DAK | 100 | 100 | 100 |
| TEX | 88 | 81 | 83 |
| WASH | 99 | 100 | 98 |
| 15 STATES | 86 | 91 | 92 |

THESE 15 STATES PRODUCED 84%
OF THE 1983 WINTER WHEAT CROP.

WINTER WHEAT
% EMERGED

| | 1984 | 1983 | AVG. |
|-----------|------|------|------|
| CALIF | 8 | 15 | 18 |
| COLO | 93 | 82 | 90 |
| IDAHO | 90 | 90 | 88 |
| ILL | 44 | 84 | 80 |
| IND | 60 | 90 | 75 |
| KANS | 80 | 80 | 85 |
| MO | 45 | 70 | 67 |
| MONT | 65 | 100 | 90 |
| NEBR | 100 | 100 | 100 |
| OHIO | 75 | 85 | 75 |
| OKLA | 45 | 75 | 65 |
| OREG | 65 | 75 | 79 |
| S DAK | 100 | 100 | 100 |
| TEX | 66 | 60 | 65 |
| WASH | 92 | 95 | 93 |
| 15 STATES | 71 | 79 | 79 |

THESE 15 STATES PRODUCED 84%
OF THE 1983 WINTER WHEAT CROP.

CORN
% HARVESTED

| | 1984 | 1983 | AVG. |
|-----------|------|------|------|
| COLO | 48 | 88 | 65 |
| GA | 98 | 98 | 97 |
| ILL | 66 | 95 | 85 |
| IND | 50 | 90 | 70 |
| IOWA | 77 | 96 | 74 |
| KANS | 85 | 95 | 85 |
| KY | 54 | 79 | 83 |
| MICH | 55 | 70 | 54 |
| MINN | 70 | 92 | 61 |
| MO | 71 | 92 | 78 |
| NEBR | 65 | 93 | 65 |
| N C | 95 | 95 | 94 |
| OHIO | 35 | 70 | 65 |
| PA | 29 | 60 | 55 |
| S DAK | 61 | 93 | 80 |
| VA | 72 | 81 | 81 |
| WIS | 48 | 61 | 48 |
| 17 STATES | 64 | 89 | 72 |

THESE 17 STATES PRODUCED 90%
OF THE 1983 CORN CROP.

RICE
% HARVESTED

| | 1984 | 1983 | AVG. |
|----------|------|------|------|
| ARK | 87 | 99 | 98 |
| CALIF | 98 | 100 | 95 |
| LA | 100 | 100 | 100 |
| MISS | 97 | 97 | 98 |
| TEX | 100 | 100 | 100 |
| 5 STATES | 94 | 99 | 98 |

THESE 5 STATES PRODUCED 98%
OF THE 1983 RICE CROP.

SORGHUM
% HARVESTED

| | 1984 | 1983 | AVG. |
|----------|------|------|------|
| COLO | 32 | 95 | 69 |
| KANS | 65 | 80 | 70 |
| MO | 66 | 88 | 78 |
| NEBR | 75 | 93 | 75 |
| OKLA | 45 | 50 | 55 |
| S DAK | 74 | 96 | 88 |
| TEX | 82 | 90 | 90 |
| 7 STATES | 71 | 86 | 79 |

THESE 7 STATES PRODUCED 85%
OF THE 1983 SORGHUM CROP.

COTTON
% BOLLS OPENING

| | 1984 | 1983 | AVG. |
|-----------|------|------|------|
| ALA | 100 | 100 | 100 |
| ARIZ | 100 | 100 | 100 |
| ARK | 96 | 100 | 97 |
| CALIF | 100 | 100 | 100 |
| GA | 97 | 96 | 97 |
| LA | 100 | 100 | 99 |
| MISS | 100 | 100 | 100 |
| MO | 100 | 100 | 100 |
| N MEX | 100 | 100 | 90 |
| N C | 100 | 100 | 100 |
| OKLA | 99 | 90 | 97 |
| S C | 100 | 100 | 100 |
| TENN | 100 | 100 | 100 |
| TEX | 75 | 95 | 89 |
| 14 STATES | 87 | 97 | 94 |

THESE 14 STATES PRODUCED 99%
OF THE 1983 COTTON CROP.

COTTON
% HARVESTED

| | 1984 | 1983 | AVG. |
|-----------|------|------|------|
| ALA | 66 | 84 | 73 |
| ARIZ | 55 | 45 | 45 |
| ARK | 30 | 89 | 74 |
| CALIF | 70 | 55 | 69 |
| GA | 66 | 54 | 70 |
| LA | 46 | 82 | 79 |
| MISS | 42 | 85 | 78 |
| MO | 31 | 95 | 80 |
| N MEX | 25 | 16 | 33 |
| N C | 51 | 79 | 69 |
| OKLA | 15 | 10 | 15 |
| S C | 61 | 92 | 84 |
| TENN | 42 | 91 | 75 |
| TEX | 25 | 40 | 35 |
| 14 STATES | 38 | 54 | 51 |

THESE 14 STATES PRODUCED 99%
OF THE 1983 COTTON CROP.

SOYBEANS
% HARVESTED

| | 1984 | 1983 | AVG. |
|-----------|------|------|------|
| ALA | 48 | 51 | 63 |
| ARK | 11 | 50 | 48 |
| GA | 46 | 38 | 44 |
| ILL | 63 | 97 | 97 |
| IND | 57 | 98 | 90 |
| IOWA | 82 | 96 | 96 |
| KANS | 65 | 70 | 80 |
| KY | 22 | 60 | 66 |
| LA | 46 | 71 | 73 |
| MICH | 65 | 90 | 81 |
| MINN | 87 | 88 | 90 |
| MISS | 30 | 50 | 56 |
| MO | 32 | 77 | 78 |
| NEBR | 70 | 93 | 95 |
| N C | 19 | 21 | 27 |
| OHIO | 65 | 95 | 90 |
| S C | 17 | 12 | 19 |
| TENN | 16 | 53 | 57 |
| 18 STATES | 53 | 77 | 78 |

THESE 18 STATES PRODUCED 93%
OF THE 1983 SOYBEAN 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 were 7 to 12° above normal. Precipitation most of the State, rainfall generally 0.50 to 1.00 in.

Fieldwork: 4.0 days. Soybeans mature 89%, 85% 1983. Soybeans harvested 48%, 51% 1983, 63% average. Cotton bolls open 100%, 100% 1983, 100% average. Cotton harvested 66%, 84% 1983, 73% average. Sorghum harvested 90%, 84% 1983, 83% average. Wheat seeded 36%, 51% 1983, 57% average. Activities: Harvesting sorghum, cotton, soybeans, and fall vegetables; planting small grains and winter grazing; applying lime; and routine care of livestock and poultry. Conditions: Soybeans fair; cotton fair to mostly good; pastures mostly fair to good; wheat, sorghum, and livestock fair to good.

ARIZONA: Sunny weather prevailed, no precipitation. Temperatures mostly 2 to 10° higher than previous week. Daily temperature ranges 25 to 90°. Averages varied 3° below normal to 4° above.

Ranges, pasture continued to supply above average grass feed. Northern areas and above average range feed, stock water. Cattle, sheep good to excellent condition. Range feed good, stock water supplies spotty central areas. Southern areas had abundant range feed, average stock water supplies. Good calf crop reported. Cotton 55% picked, 45% both last year and average. Some growers shredding stalks, preparing for next crop. Sorghum grain combining increased. Seedbed preparation for small grains started. Alfalfa harvest near completion, sheeping off increased. Lettuce harvest started Yuma, good progress other areas. Increased supplies dropped lettuce prices. Melon harvest making good progress. Cantaloupe harvest active Salt River Valley, winding down Aguila area. Lemons, grapefruit packed; some oranges picked. Mixed vegetable harvest continued good progress. Pecan harvest continued.

ARKANSAS: Very warm early in the week with temperature 3 to 8° above normal. Cold front brought showers at midweek, then dry and cool. High 87°, low 29°. Most rainfall 2.90 in., least 0.19 in.

Soil moisture surplus, 2.6 days favorable for fieldwork.

Cotton fair to poor; bolls virtually open, same as 1983 and average; harvested 30%, 89% 1983, 74% average. Rice condition fair; harvested 87%, virtually finished 1983 and average. Soybean condition fair, fields muddy and beans deteriorating; yellow 95%, virtually all 1983 and average; shedding leaves 88%, 97% 1983, 92% average; harvested 11%, 50% 1983, 48% average. Sorghum fair; harvested 87%, 98% 1983 and average. Pastures good to excellent. Livestock good condition.

CALIFORNIA: Temperature averages were below normal for all districts. Clouds and periodic precipitation enabled the northern districts to remain 4 to 5° below normal. Precipitation was restricted to the northern half of the State as a series of Pacific frontal systems moved through those districts. The southern half of the State remained dry.

Cotton harvest 70%, last year 55%, 69% average. Quality good. Rice harvest 98%

complete, 100% last year, 95% average. Stubble burning continues, weather permitting. Winter wheat 20% planted, 30% last year and average. Emerged 8%, 15% last year, 18% average. Other small grain plantings continue. Corn, dry bean, milo and alfalfa hay harvests approaching completion. Date harvest continues. Emperor table grape harvest continues. Good yields in kiwifruit. Olive harvest winding down with some fruit beginning to color. Desert grapefruit has good yields and demand. Desert lemons in excellent condition and in good demand. New Navel orange crop being harvested but sugar content barely making standards. Tangerine harvest has begun. Walnut and pistachio harvests nearing completion. Artichokes light supply central coast, improving quality. Broccoli moderate supply Salinas-Watsonville, Santa Maria-Oceano areas, good quality. Harvest continues San Joaquin Valley, desert area. Fall cantaloupe harvest continues peak levels, desert area. Quality ranges widely. Harvest continues slowly Palo Verde Valley. Carrots fairly light supply Salinas areas moderate supply San Joaquin Valley. Cauliflower moderate supply, Salinas-Watsonville, fairly light supply Santa Maria area, variable quality. Cauliflower harvest underway desert, continues light south coast, San Joaquin Valley. Celery heavy supply Salinas-Watsonville, good quality. Santa Maria area heavy volumes celery. Honeydew harvest increasing Imperial, Palo Verde valleys, sizes running variable. Lettuce harvest finished Salinas-Watsonville area. Santa Maria lettuce moderate volume, variable quality. Lettuce actively harvested Huron, good yields, excellent quality, heavy volumes. Firebaugh continues as desired head weights obtained. Spring planting begun Huron district. Heavy insect treatments desert lettuce. Harvest 2-3 weeks Palo Verde Valley. Green peppers virtually finished central, south coasts. Harvest dehydrator onions continues Tulelake. Fall potato harvest 80 to 85% complete Tulelake-Butte Valley area. Yields, quality excellent. Sweetpotato harvest nearing completion major areas. Green pack tomatoes continue harvested slow pace Huron, Fresno districts. Range grasses beginning to grow. More rain needed to saturate soils. Supplemental feeding necessary some areas. Calving, lambing active. Sheep continue grazing alfalfa, stubble fields.

COLORADO: Strong westerly winds common over the State during the period. Weather mostly fair with snow showers in mountains. Temperatures were within 2° of normal. Little precipitation occurred.

Winter wheat seeding 97% complete; 1983 98%; average 99%. Plant emergence 93% complete; 1983 82%; average 90%. Corn harvest at 49%; 1983 88%; average 65%. Sorghum harvest 32% complete; 1983, 95%; average, 69%. Sugarbeet harvest is 55% complete; 1983, 99%; average, 91%. Dry bean threshing at 94%; 1983, 98%; average, 97%. Potato harvest 98% complete; 1983, 100%; average, 99%. There was an average of 4.8 days suitable for fieldwork.

FLORIDA: Rainfall mostly under 0.25 in. with scattered showers and a few thunderstorms except for local 1.00 to 3.00 in. amounts along east coast the 3rd. Temperatures averaged well above normal.

Scattered showers helpful, more needed. Soil moisture remained short central, north, Panhandle areas; southern areas mostly adequate. Soybean harvest well advanced. Peanut harvest virtually complete. Cotton harvesting active, ahead of normal. Sugarcane cutting increasing seasonally. Planting small grains increased with scattered rainfall but behind schedule. Hay harvest continued but very limited. Pasture condition poor to fair Panhandle, north, central Peninsula. Conditions remain good to excellent lower southern Peninsula. Cattle condition good to excellent, lower southern Peninsula, mostly fair to good elsewhere. Commercial citrus groves good condition. Some weekend showers. New growth slow. Early fruit harvest increasing for fresh markets. In vegetable areas, scattered showers occurred during week. Rainfall mostly 1.00 to 2.00 in., some locally heavier. Harvest gaining snap beans, sweet corn, cucumbers, eggplant, escarole, lettuce, sweet peppers, radishes, squash, tomatoes. Harvest expected to increase seasonally most crops. Quality mostly good. Light harvest getting underway for cabbage, carrots, celery. Plantings continue active southwest, southeast areas. Potato plantings gaining. Early plantings up to good stands. Transplanting strawberries winding down for season. Early fields making good growth.

GEORGIA: Average temperatures 5 to 10° above normal. Departures early in week were as much as 15° above normal. Rainfall totals were 1.00 to 2.00 in. at locations in south with spots over 2.00 in. Most northern locations had less than 0.30 in.

Soil moisture 2% surplus, 29% adequate, 42% short, 27% very short. Average days suitable for fieldwork: 5.3. Main activities harvesting soybeans, cotton, pecans and planting small grains. Corn 98% harvested this year and last, 97% average. Cotton 97% bolls open this year and average, 96% last year; harvested 66%, 54% last year, average 70%; condition 22% excellent, 49% good, 27% fair. Peanuts dug 100%, 99% last year and average; threshed 98% this year and average, 96% last year. Soybeans dropping leaves 99%, 96% last year and average; harvested 46%, 38% last year, 44% average; condition 21% good, 49% fair, 26% poor, 4% very poor. Apples 98% picked this year and average, 97% last year. Pecans 24% harvested, 14% last year, 27% average; condition 35% good, 55% fair, 10% poor. Wheat 23% planted, 32% last year, 36% average. Rye 47% planted, 73% last year, 69% average. Other small grains 40% planted, 58% last year, 60% average. Grain sorghum condition 38% good, 52% fair, 10% poor. Hay condition 16% good, 49% fair, 30% poor, 4% very poor. Pasture condition 20% good, 45% fair, 28% poor, 6% very poor. Cattle 46% good, 48% fair, 5% poor. Hogs 62% good, 34% fair.

HAWAII: A slow moving band of clouds east of the State produced rainy weather for most of the week. Precipitation was moderate to heavy in most areas with flood watches taking effect in some low-lyin sections.

The major vegetable regions, however, received little rain during the week and water conservation measures became more critical. Plantings continued to be reduced and supplies of various vegetable will be lower than normal through the rest of the year. The dry conditions have also hurt future sugar harvests as some plantations have been forced to suspend plantings and to begin early harvesting of some fields. Production of head cabbage and head lettuce forecast to increase in the next two weeks. Both, however, will be of moderate

volume. Chinese cabbage output has been hard hit by the dry weather and production will light. Banana production will remain heavy while papaya output forecast to increase seasonally.

IDAHO: A westerly flow of air brought cool temperatures and heavy precipitation to the State. Temperatures averaged from 3 to 4° below normal in most areas. The exception was in the north which averaged near 9° below normal. Rainfall amounts ranged from above normal in the north to slightly below normal in the south.

With the exception of sugarbeets and corn, most major crops have been harvested in the State. Winter wheat was 100% seeded compared to 100% last year and 98% average. Emergence of winter wheat stood at 90% versus 90% in 1983 and 88% average. Field preparation for next spring's planting continued in several areas. The majority of the livestock have been moved to wintering areas. Feed supplies were adequate in most areas.

ILLINOIS: Temperatures normal to 5° above normal. Precipitation 1.10 to 3.37 in.

Soil moisture 26% adequate, 74% surplus. Corn harvested 66%, last year 95%, average 85%. Soybeans harvested 63%, last year 97%, average 97%. Sorghum harvested 45%, last year 89%, average 84%. Winter wheat seeded 50%, last year 96%, average 94%; emerged 44%, last year 84%, average 80% condition, 16% excellent, 56% good, 21% fair and 7% poor. Fall tillage of 1985 intended corn and soybean acreage 19%, last year 48%, average 42%. Pasture condition 20% excellent, 71% good, 9% fair; supplying 64% livestock roughage requirements, last year 49%, average 48%. Days suitable for fieldwork: 2.3.

INDIANA: Temperatures averaged 1 to 3° above normal northwest to 3 to 6° above elsewhere. Lows in lower 20s north to lower 30s south. Precipitation north averaged 0.50 to 1.00 in. Central and south from over 1.00 to 2.00 in.

Fieldwork averaged 3.0 days. Topsoil moisture adequate to mostly surplus. Subsoil moisture adequate to surplus. Corn 50% harvested, 1983 90%, average 70%. Corn moisture 25%, 1983 20%. Soybeans 57% harvested, 1983 98%, average 90%. Soybean moisture 16%. Wheat 68% seeded, 1983 97%, average 92%. Wheat 60% emerged, 1983 90%, average 75%. Wheat stands 16% fair, 67% good, 17% excellent. Rye 90% seeded, 1983 100%, average 97%. Tobacco 10% processed, 1983 15%.

IOWA: Temperatures average 5° below normal in northwest to slightly above normal southeast. Precipitation was above normal over all but northwest quarter of State.

Days suitable for fieldwork: 3.9. Corn harvesting 77% complete; 96% last year; 74% normal. Corn moisture content 20.6%. Soybean harvesting 82% complete; last year 96%; normal 96%. Soybean moisture content 15.2%. Sorghum acreage harvested 79% complete; last year 98%; normal 81%. Fall tillage 25% complete; 52% last year; 31% normal. Fall fertilize application 24% complete; 48% last year; 30% normal. Availability of grain storage 1% short, 76% adequate, 23% surplus. Availability of boxcars and trucks 2% short, 83% adequate, 15% surplus. Topsoil moisture conditions 62% adequate, 38% surplus. Subsoil moisture conditions 18% short, 75% adequate, 7% surplus. Livestock in good condition

KANSAS: Precipitation averaged little to none west and 1.00 to 2.00 in. eastern third. Temperatures averaged 46 to 50° west and north

to 54° southeast. These were 30° below normal north central and 20° above normal northwest.

Sorghum harvested 65%, 80% last year, 70% average. Soybeans harvested 65%, 70% last year, 80% average. Corn harvested 85%, 95% last year, 85% average. Wheat planted 90%, 90% last year, 97% average; emerged 80% last year, 85% average. Topsoil moisture adequate to surplus. Pasture and rangeland poor to good. Days suitable for fieldwork: 3.0.

KENTUCKY: Temperatures averaged 5 to 10° above normal but much cooler air late in week. This brought widespread frost with lows in upper 20's and low 30's. Earlier in week afternoon readings in upper 70's to mid 80's were recorded. Rainfall for week averaged well above normal as many locations measured over 2.00 in.

Harvest delays continue. Corn for grain and soybean harvest progress slowest on record. Days suitable for fieldwork: 2.9. Soil moisture 55% adequate, 42% surplus, 3% short. Corn for grain 54% harvested, 79% last year, average 83%. Soybeans 22% harvested, 60% last year, average 66%. Much burley still too moist for stripping. Burley 15% stripped, 18% last year, average 22%. Fall wheat seeding 45% complete, 72% last year, average 73%. Some acreage will not be seeded due to harvest delays. Pastures improved.

LOUISIANA: Rainfall amounts ranged from 0.07 to 2.25 in. Temperatures averaged between 9 and 12° above normal. High 89°; low 39°.

Soil moisture adequate to surplus southeast and northwest, and surplus elsewhere in the State. Days suitable for fieldwork: 3.8. Activities included cotton, soybean, sweetpotato, sugarcane, and pecan harvesting; wheat planting; and farm equipment repairs. Cotton harvest 46% 1984, 82% 1983, 79% average. Soybeans shedding leaves 96% 1984, 98% 1983, 96% average; harvest 46% 1984, 71% 1983, 73% average. Winter wheat planting 21% 1984, 54% 1983, 51% average; emerged 18% 1984, 33% 1983, 32% average; condition fair. Sweetpotato harvest 85% 1984, 92% 1983, 93% average. Sugarcane planting 100% 1984, 100% 1983, 99% average; harvested 11% 1984, 33% 1983, 28% average; condition fair. Vegetable condition fair. Pecans harvested 18% 1984, 26% 1983, 25% average. Pasture and livestock condition fair to good.

MARYLAND AND DELAWARE: Maryland: Weather warm and wet. Temperatures averaged mostly 12 to 15° above normal. This is the third consecutive week temperatures have been above normal. Rainfall averaged 0.70 in. ranging from 0.23 in. at Cumberland to 1.46 in. at Patuxent.

Field corn 85% harvested, one week behind both last year's and the average progress of 90%. Soybeans mostly fair condition. Harvest 35%, over a week behind last year's 50% harvested, average harvest 55%. Barley 95% seeded, equal to 1983, average 100% seeded. Wheat 75% seeded, over a week behind 1983's 85%, average 85% seeded. Rye 95% planted, equal to both 1983 and the average. Oat seeded 85% complete, a few days behind last year's 90%, average 95% seeded. The fourth cutting of 1984 hays was completed during the week.

Delaware: Weather warm and wet. Temperatures averaged 13 to 15° above normal. This is the third consecutive week temperatures have run above normal.

Topsoil and subsoil moisture are adequate. Farmers worked an average 5.7 days harvesting corn and soybeans and planting small grains.

Corn for grain 90% harvested, 1983 and average 95%. Soybeans 40% combined, a little over a week behind last year's 65% combined. The average percent combined 65%. Barley 95% seeded, 95% last year and average. Wheat seeding 65% complete, equal to 1983, average 75%. Rye planting 75%, last year 65%, average 70%.

MICHIGAN: This was a very typical week for the wrapup of the fall harvest. Temperatures averaged near normal. There were a couple of days of precipitation giving light to moderate rainfall.

Favorable progress made in harvesting fall crops. Statewide 4.0 days suitable for fieldwork. Corn 55% harvested, 70% last year, 54% average. Soybeans 65% harvested, 90% last year, 81% average. Sugarbeets 80% harvested, 85% last year, 86% average. Fall apple picking and vegetable harvest virtually complete.

MINNESOTA: It was a cool and dry week across the State. Temperatures averaged 5 to 15° below normal. High: 61°, low: 30° below. Precipitation averaged 0.72 in. above normal for the southeast and near normal to 0.27 in. below normal elsewhere. Greatest weekly total: 1.88 in.

Cloudy, windy and below-normal temperatures prevailed across most of the State during the week. A hard freeze hit most areas, which froze the ground and allowed machinery in the fields. The harvest of row crops made good progress. Moisture content of beans remained higher than normal. Sugarbeet harvest made excellent progress and neared completion. The cooler temperatures benefited beet storage at processing plants. Fall tillage was virtually at a standstill because of frozen soils. Most producers in the north had their cattle on full supplemental feed. The long feeding season has increased the demand for hay. The northern half of the State reported an adequate supply of topsoil moisture while the southern half continued to have surplus quantities. Topsoil moisture: 1% short, 36% adequate and 63% surplus. Days suitable for fieldwork: 3.4.

Field Corn: Harvested 70%, 1983 92%, normal 61%; moisture content 24%, 1983 20% normal 23%; stubble plowed or tilled 29%, 1983 66%, normal 34%. Soybeans Harvested: 87%, 1983 88%, normal 90%; moisture content 15%, 1983 14%, normal 13%; stubble plowed or tilled 47%, 1983 60%, normal 56%. Sunflowers: Harvested 81%, 1983 84%, normal 77%. Sugarbeets: Harvested 95%, 1983 99%, normal 98%.

MISSISSIPPI: Temperatures averaged 7 to 13° above normal, extremes 35 and 91°. Greatest weekly rainfall 3.40 in.

Soil moisture surplus. Fieldwork 3.7 days, 5.5 1983, 5.0 average. Farmers mainly harvesting cotton and soybeans.

Soybean condition fair; 100% dropping leaves, 100% 1983, 100% average; 30% harvested, 50% 1983, 56% average. Cotton condition fair; 42% harvested, 85% 1983, 78% average. Rice 97% harvested 97% 1983, 98% average. Sorghum 94% harvested; 95% 1983, 97% average. Corn 90% harvested; 92% 1983, 93% average. Sweetpotatoes 81% harvested; 78% 1983, 89% average. Peanuts 91% harvested; 87% 1983, 96% average. Pecan condition fair; 23% harvested, 16% 1983, 27% average. Pasture and livestock in good condition.

MISSOURI: Temperatures were 30° below normal in the northern half, near normal in the central part, and 30° above normal in the southern half. Rainfall was widespread and very heavy in

spots. Three inch totals were common in the eastern half of the State.

Days suitable for fieldwork: 0.6. Soybeans mature 94%, 98% last year, 97% normal. Soybeans harvested 32%, 77% last year, 78% normal. Corn harvested 71%, 92% last year, 78% normal. Grain sorghum harvested 66%, 88% last year, 78% normal. Cotton harvested 31% this year, 95% last year, 80% normal. Land tilled for spring crops 26%, 45% last year, 41% normal. Wheat planted 49%, 82% last year, 80% normal. Wheat emerged 45%, 70% last year, 67% normal. Condition of pasture 8% excellent, 55% good, 35% fair, 2% poor. Topsoil moisture supply 88% surplus, 11% adequate, 1% short.

MONTANA: Very cold air invaded northern portions early in week and covered most of State by middle of week. Cold air was replaced by much warmer air and strong winds late in week. For the week, temperatures averaged 20 to 30° below normal over northern areas east of Divide and only 2 or 3° below normal in southwest. Much of the area east of Divide, except southwest, had subzero temperatures. Coldest was 21° below zero near Simpson along Canadian Border.

Precipitation moderate to heavy west of Divide, totals ranged from 0.50 to 3.00 in. Front range also received heavy amounts, mostly in the form of snow. Elsewhere, precipitation light to none.

Soil moisture mostly short except west of Continental Divide. Winter wheat planted 100%, 1983 100%, average 100%, winter wheat emerged 65%, 1983 100%, average 90%. Winter wheat condition mostly fair, good in west and southeast. About 90% of cattle and sheep moved to winter ranges.

NEBRASKA: Rainfall ranged from traces up to 0.33 in. Temperatures were cool ranging from normal in west to 4° below normal northeast.

Winter wheat condition 2% poor, 13% fair, 81% good, 4% excellent; 100% wheat planted and emerged. Sorghum harvested 75%, 93% last year, 75% average. Soybeans harvested 70%, 93% last year, 95% average. Corn harvested 65%, 93% last year, 65% average. Topsoil moisture 4% short, 84% adequate, 12% surplus. Subsoil moisture 21% short, 70% adequate, 9% surplus. An average of 6.0 days were suitable for fieldwork.

NEVADA: Cool and showery early in period north and northeast. Colder midweek but warming trend end of period brought scattered showers north. Temperature fluctuations during week resulted in averages in a range from 3° above normal to 3° below.

Potato harvest in cleanup stage. Grazing continued at record high levels most areas. Cattle and sheep in excellent condition.

NEW ENGLAND: Temperatures averaged 1 to 4° above normal over CT, RI, east and south-central MA. The rest of the region ran 1 to 4° below normal. Highest for the week 77° on the 29th at Providence RI. Lowest, 12° on the 29th at Fort Kent, ME. Precipitation ranged from zero to 0.60 in. Extreme northern ME and central areas received 0.25 in. Extreme western areas received 0.50 in.

Cranberry harvest 90% complete. Fall tillage active. Soil moisture conditions adequate.

NEW JERSEY: Temperatures averaged 5° above normal. Extremes were 21° on the 4th and 80° on the 30th. Weekly rainfall averaged 0.92 in. north, 0.89 in. central and 0.53 in. south. The heaviest 24-hour total was 1.62 in. on the 4th to 5th. Estimated soil moisture, in

percent of field capacity, averaged 96% north, 85% central and 77% south. Four inch soil temperatures averaged 55° north, 60° central and 61° south.

Fieldwork: 6.0 days suitable. Soil moisture adequate. Frost in some parts of the state stopped fall vegetable harvest. Apple and potato harvest essentially complete. Corn and soybean harvest continues. Fall sown grains in good condition.

NEW MEXICO: Average temperatures near or little below normal statewide. Minimum temperature: 16° northern mountains. Maximum temperature: 82° southeastern plains. Few light showers eastern half of State, precipitation totals between none and 0.06 in.

Soil moisture supplies adequate to surplus. Alfalfa fair to good; fifth cutting continued. Cotton fair to good. Corn good; grain harvest continued. Barley good. Irrigated wheat good, dryland fair to good. Irrigated, dryland grain sorghum good; grain harvest continued. Pecans good; harvest just beginning. Peanuts fair; harvest well underway. Chile fair to good; red chile harvest neared completion. Lettuce fair to good; harvest continued. Cattle, sheep fair to excellent. Range fair to excellent. Cotton open bolls: 100%, last year 100%, August 88%; harvest: This year 25%, last year 16%, August 33%.

NEW YORK: Precipitation averaged 0.20 to 0.70 in. Temperatures averaged 1 to 7° above normal for week.

Freezing temperatures late in the week ended fall vegetable crop growth. Apple harvesting nearly complete.

NORTH CAROLINA: Temperatures averaged 10° above normal in most areas. Precipitation ranged from none to 3.60 in. with most areas receiving between 0.10 to 0.50 in.

Soil moisture: 12% very short, 45% short, 39% adequate, and 4% surplus. Days suitable for fieldwork: 5.4. Condition: Soybeans 3% poor, 38% fair, 53% good, 6% excellent. Pasture 7% poor, 50% fair, 40% good, 3% excellent. Sweetpotatoes 32% fair, 65% good, 3% excellent. Phenological stages: Soybeans dropping leaves 78%, 1983 72%, average 78%. Harvest: Corn for grain 95%, 1983 95%, average, 94%. Soybeans 19%, 1983 21%, average 27%. Sweetpotatoes 84%, 1983 85%, average 88%. Cotton 51%, 1983 79%, average 69%. Apples 93%, 1983 85%, average 94%. Peanuts threshed 97%, 1983 54%, average 80%. Planted: Wheat 60%, 1983 60%, average 54%. Major farm activities: Seeding small grains, combining corn and soybeans, picking cotton, preparation of land for fall seeding, harvesting apples, digging sweetpotatoes, grading burley tobacco, cutting firewood and general farm maintenance.

NORTH DAKOTA: Temperatures across the State were below normal again this week. The north central district was the coldest averaging 22° below normal. The south central district was warmest with temperatures averaging 12° below normal. Extremes ranged from +63° to 11° below zero.

The northern districts received the most precipitation with an average of about 0.15 in. Devils Lake received the most with 0.22 in. for the week.

Good progress made on harvest of late-season crops with completion rate at or ahead of average. Most sunflower coming in at high moisture. Sugarbeet and soybean harvests nearly complete. Frozen soil most areas may delay fall tillage till next spring. Harvest progress for

each crop compared to last year and average: Sunflower 77, 95, 70; corn for grain 91, 97, 77; soybeans 95, 98, 94; sugarbeets 98, 100, 99. Topsoil moisture supplies better than normal statewide with 2% of State showing surplus, 73% adequate and 25% short. Subsoil moisture supplies less than normal with 63% short or very short and 37% adequate.

OHIO: Temperatures 1 to 6° above normal. Precipitation 2.00 to 2.50 in. central and southwest, totals over 1.00 in. common elsewhere. Soil temperatures at 4 in. averaged low to mid-50s.

Topsoil moisture 50% adequate, 50% surplus; 4.0 days suitable for fieldwork. Activities delayed by intermittent showers fourth consecutive week. Corn and soybean harvest 2 weeks behind. Corn harvested 35% 1984, 70% 1983, 65% average. Soybean harvest 65% 1984, 95 1983, 90% average. Winter wheat planted 85% 1984, 98% 1983, 95% average; emerged 75% 1984, 85% 1983, 75% average; condition good. Pasture condition good.

OKLAHOMA: Temperatures averaged 1 to 2° below normal north central, west central, Panhandle and central to 6° above normal east central. Precipitation averaged 0.01 in. Panhandle and west central to 2.76 in. southeast.

Cloudy weather hampered growth of small grains. Row crop harvest delayed by wet fields. Frost received during week but no significant damage reported. Good moisture aided growth of winter grasses. Wheat and livestock good-to-fair. Cotton, sorghum and pastures fair condition. Wheat planted: 80%; 90% 1983; 90%, average. Wheat emerged: 45%; 75% 1983; 65% average. Sorghum harvested: 45%; 50% 1983; 55%, average. Cotton open bolls: 98%; 90%, 1983; 97% average. Cotton harvested: 15%; 10%, 1983; 15% average.

OREGON: Cool, very wet week. Coast averaged 3.00 in. of rain; Willamette Valley averaged 3.25 in.; east of Cascades precipitation was 0.20 to 0.40 in. Temperatures were 2 to 4° below normal in west; 3 to 7° below normal in east.

Winter wheat 87% seeded, 65% emerged. Last year, 92% seeded, 75% emerged. Average, 93% seeded, 79% emerged. Wetness west of Cascades hindering field activities. East, crop looks good with adequate moisture. Summer fallow fieldwork. Malheur County, finishing harvest of sugarbeets and field corn. Filberts 75% harvested. Walnut harvest; quality good. Grape harvest near complete. Spraying stone fruits. Apple harvest winding down. Cranberry harvest mostly complete; excellent crop. Some potatoes and onions awaiting drier harvest conditions in Willamette Valley. Cole crop harvest. Douglas County fresh market carrots digging. Potato harvest near complete around Hermiston. Western pastures green but need warmth to grow; some cattle operators feeding hay; livestock in mostly good condition. Eastward, cold weather slowed feed growth; herds off rangeland. Around Hermiston, grazing on turnips and corn stalks; other areas on stubble and alfalfa. Winter preparations.

PENNSYLVANIA: The passage of successive frontal systems across the State brought days of sunshine alternating with cloudy skies and wet weather. In the beginning of the week temperatures were well above normal. At the end of the week high pressure centered over the Northeast caused much cooler temperatures. Frost was reported in all areas, and temperatures fell down to the teens and 20's in

the north and west. Statewide average temperature for the week was 52°, 8° above normal. Average precipitation was 0.58 in., 0.15 in. below normal.

Days suitable: 4.0. Moisture supply mostly adequate. Activities: Plowing, seeding wheat, making small amount of hay, repairing fences, harvesting green chop, ensilage, high moisture ground ear and shelled corn, corn for grain, soybeans, and apples. Corn for grain 29% harvested, last year 60%, average 55%. Corn for silage harvest virtually complete, 2 weeks behind last year. Soybeans 32% harvested, last year 57%. Fourth crop alfalfa 77% harvested, last year 92%. Quality of hay made mostly fair to poor. Feed from pastures average to below average.

PUERTO RICO: Nothing Reported.

SOUTH CAROLINA: Unseasonably warm weather across State until late week, cold weather front caused cloudy skies and rain and sharp drop in temperature over weekend. Daily average fell to near normal for first time in over there weeks.

Soil moisture short. Days available for fieldwork: 5.6. Soybean condition fair: 87% shedding leaves, 92% last year, 90% average; 63% mature, 50% last year; 64% average; 17% harvested, 12 last year, 19% average. Cotton condition good: 61% harvested, 92% last year, 84% average. Sorghum condition fair to good; 78% harvested, 78% last year, 81% average. Tobacco harvesting complete; 93% stalks destroyed, 98% last year. Apple harvesting complete. Wheat condition fair to good: 15% planted, 20% last year; 32% average; 8% emerged, 13% last year, 22 average. Oats condition fair to good: 45% planted, 52% last year, 53% average; 27% emerged, 32% last year, 38% average. Rye condition fair to good; 40% planted, 53% last year, 57% average; 24% emerged, 42% last year, 45% average. Barley condition fair to good: 56% planted, 60% last year, 59% average; 35% emerged, 47% last year, 44% average.

SOUTH DAKOTA: Average temperatures were 0 to 12° below normal. Extremes: 76 and -6°. Precipitation was light and spotty with many locations receiving none at all or only a trace. The precipitation that did fall was generally in the north in form of rain and/or snow.

Days suitable for fieldwork: 5.0. Topsoil moisture short west, adequate to surplus east. Harvesting row crops and working cattle and calves were main farming activities. Range and pastures fair to good condition. Livestock good, some full feeding of livestock has begun. Sorghum harvested 74%, 1983 96%, average 88%. Corn harvested 61%, 1983 93%, average 80%. Winter wheat planted 100%, 1983 100%, average 100%. Winter wheat emerged 100%, 1983 100%, average 100%.

TENNESSEE: A series of frontal systems rolled across the State yielding rain and thunderstorms over all sections of the State. Temperatures averaged from 4 to 9° above normal, with extremes ranging from the upper 80's to the mid-30's. Precipitation amounts averaged 0.50 to 0.75 in. with amounts exceeding 1.00 in. in the west being common.

Farmers averaged 2.6 days suitable for fieldwork. Soil moisture levels were rated: 47% surplus, 45% adequate, 8% short. Corn harvest 56%, 1983 79%, average 81%. Cotton harvest 42%, 1983 91%, average 75%. Soybean mature: 89%, 1983 96%, average 96%; harvested:

16%, 1983 53%, average 57%. Burley tobacco stripped: 38%, 1983 38%, average 49%. Wheat sown 29%, 1983 59%, average 68%. Sorghum harvested 53%. Pastures and livestock in good condition.

TEXAS: Warm front moved through area first part week, rain North, Central Texas. Later week cold front bringing abundant rainfall everywhere except West, far West Texas. Average temperatures cooler than normal. Precipitation near normal Panhandle, West Texas, Edwards Plateau. Elsewhere, near normal.

Crops: Rain showers linger good portion State; precipitation totals less previous weeks. Planting, harvesting activities little progress because continued wet soil conditions. Additional rainfall aided growth, development small grains, pastures, ranges. Field operations resume as soils dry out. Cotton harvest little progress Plains before another cool front brought damp weather, halted fieldwork. Open cotton string out because of wet weather. Defoliants applied ineffective because rains. Warmer weather needed large bolls open, fieldwork resume. Scattered fields unharvested Cross Timbers, East Texas. Statewide condition 65% of normal compared with 47% a year ago. Current conditions 1%, excellent; 43%, good; 38%, fair; 13%, poor; and 5%, failure. Grain Sorghum harvest little progress, wet conditions prevented producers entering fields most week. Most grain plains mature, ready for harvest to continue as conditions permit. Some lodging remaining fields. Losses may begin occurring if fields do not dry out. Drier, open weather needed Corn producers enter fields, wind up harvest activities. Slight progress during early week. Heavy lodging because winds, recent rains. Harvest slightly behind schedule. Peanut fields too wet for harvest make any progress. Exception South Texas, operations some progress. Yields reduced this area because prolonged wetness. Sprouting in areas too wet for harvest. Small Grain fields show good growth most areas because good moisture accumulations. High Plains, fields developing well, begin providing grazing. Heavy amounts rain turned some fields yellow Blacklands. Good moisture exists statewide for planting, seeding operations ahead of schedule. Soybean fields need drier weather for harvest. Sugarcane harvest also delayed slightly Rio Grand Valley because inclement weather. Sucrose content below expectations, may improve drier weather returns. Sugarbeets Texas High Plains excellent yields. Producers resumed harvest slow pace. Cotton open bolls 1984 75%, 1983 95%, average 89%, harvested 1984 25%, 1983 40%, average 35%. Sorghum mature 1984 98%, 1983 100%, average 99%; harvested for grain 1984 82%, 1983 90%, average 90%. Wheat planted, all purposes 1984 88%, 1983 81%, average 83%; emerged 1984 66%, 1983 60% average 65%. Corn harvested for grain 1984 99%, 1983 100%, average 99%. Peanuts harvested 1984 46%, 1983 58%, average 63%. Soybeans harvested 1984 55%, 1983 49%, average 53%. Sugarbeets harvested 1984 60%, 1983 60%, average 44%. Pecans harvested 1984 12%, 1983 19%, average 17%. Sunflowers harvested 1984 60%, 1983 86%, average 80. Oats planted for grain 1984 84%, 1983 75%, average 76%.

Commercial Vegetables: Rio Grande Valley, harvest continues bell peppers, cucumbers. Good progress reported most other fall vegetables. Planting continued as fields dry out. San Antonio-Winter Garden, harvest begun cabbage. Peach aphids problems many fields. Onion planting resumed conditions improve. Trans-Pecos, harvest bell peppers continues

between showers. Harvest chilis continues; high losses occurring because wilt. East Texas, good progress all vegetables. Sweetpotatoes harvest delays. Pecan harvest slowed because weather conditions. Activities spread northward rapidly as conditions improve. Yields low all areas, except High Plains where crop fair.

Range and Livestock: Range conditions improving statewide because continued showers. Many winter forage varieties good growth. Good forage growth expected to continue as long as first heavy freeze holds off Central, South Texas. Small grain pastures excellent growth, livestock moved into some fields High Plains. Some additional hay cuttings occur if fields dry out. Livestock conditions improving. Markets steady.

UTAH: Precipitation observed at half of stations. Accumulations light to moderate in mountainous areas of north half and generally light rest of State. Maximum temperatures averaged 40 below normal north half, 10 below south, and normal Uintah Basin. Minimum averaged 20 below normal.

Apple picking sorting and marketing continued. Range feed supplies on winter ranges excellent. Livestock condition good.

VIRGINIA: Warm and wet beginning, ends with temperatures falling below normal. Temperatures in the 80's fell abruptly as Canadian air pushed overnight readings as low as 25° in west. Heavy frost occurred at one western station. Elsewhere overnight lows in 30's common except on coast where readings near 50 recorded. Rainfall amounts generally light ranging from 0.50 in. in west to 0.10 in. at coast.

Light rainfall scattered over State. Topsoil moisture ratings 49% short, 51% adequate. Days suitable for fieldwork: 5.4. Harvest of grain 72% complete, 81% last year and average. Yields above average. Soybean harvest 32% complete, 25% last year, 37% average. Harvest hindered by high moisture. Yields good to excellent. Peanuts dug 100% complete, 90% last year, 96% average. Peanuts combined 98% complete, 70% last year, 90% average. Overall peanut yields good.

Small grain seed bed preparation and seeding progressing rapidly with isolated reports of dry soil conditions. Oat seeding 94% complete, 91% last year, 91% average. Barley seeding 88% complete, 88% last year, 90% average. Wheat seeding 60% complete, 56% last year, 63% average. Grain sorghum harvest 40% complete, 27% last year, 35% average.

Burley tobacco grading and stripping continues active.

WASHINGTON: Winter wheat seeding nearing completion. Cold temperatures and snow delayed emergence. Potato digging almost complete. Raspberries being caned and tied. Cattle movement to winter pastures continued and feeder cattle were being marketed. Winter wheat seeded 99%, 1983 100%, average 98%. Winter wheat emerged 92%, 1983 95%, average 93%.

WEST VIRGINIA: Temperatures were above normal early in the week, dropping to below normal at week's end. First widespread frost occurred morning of 3rd. High of 84° in Spencer, Burlington and Charles Town, low of 18° at Green Bank. Above normal precipitation across the state, except the Northeast with a normal amount of rainfall. Most precipitation 2.54 in. at Spencer, least 0.04 in. at Martinsburg.

Soil moisture adequate. Days worked averaged 4.3. Fall seeding of wheat 86% complete, barley 95% complete. Corn in good condition with 39%

mature and 61% harvested. Corn moisture remains high. Pasture in good to fair condition. Main activities: Harvesting corn, general maintenance.

WISCONSIN: It was generally a cloudy week with below normal temperatures. Scattered rain fell throughout the week with the heaviest rain occurring on the 31st. Total precipitation varied from 1.00 to 3.30 in.

Soil was extremely wet, hampering but not stopping harvest. The soil was 0% dry, 15% wet and 85% surplus. There were 3.2 days suitable for fieldwork.

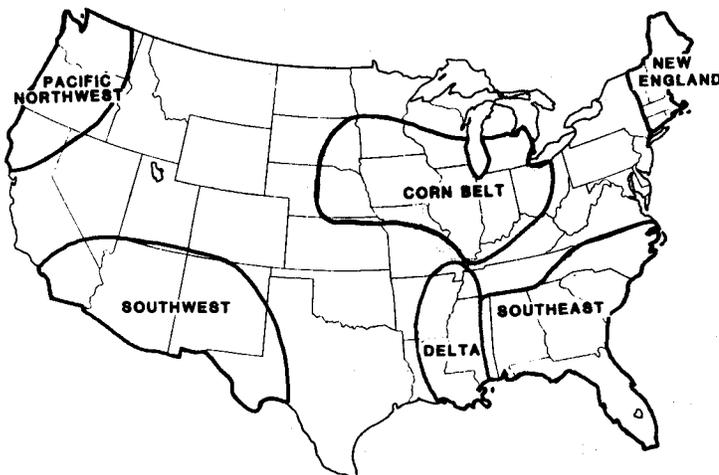
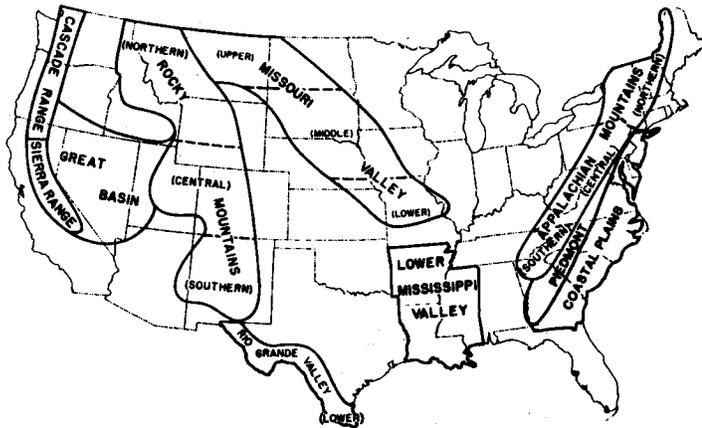
Corn harvest managed to struggle along, being 48% complete compared to 61% last year and a 48% average. Corn and soybeans were having trouble

drying down. Some mold was reported in the south and many fields were heavily damaged by late October storms. Soybeans were 58% harvested, 73% last year and 64% average. Fall plowing was put on hold as farmers put priority on harvest. Fall plowing was 30% finished, 46% last year and 32% average.

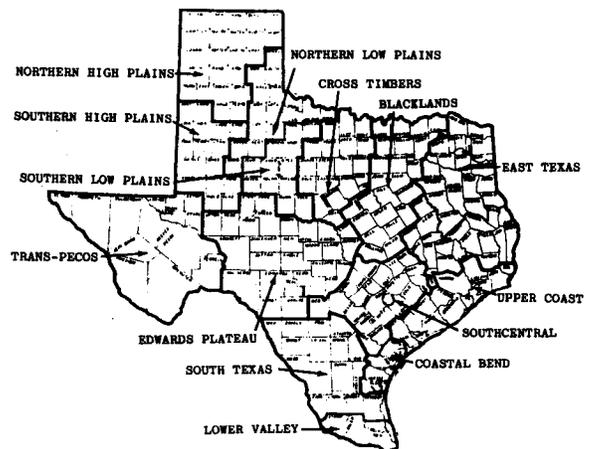
WYOMING: Dry windy week. Precipitation below normal except for northwest corner. Temperatures 5 to 10° below normal.

Winter wheat mostly good condition. Sugarbeet harvest wind-up stages. Harvesting of corn for grain continues at a rapid pace. Livestock mostly good condition. Hay supplies adequate most areas.

AREA NAMES COMMONLY USED IN WEEKLY WEATHER & CROP BULLETIN

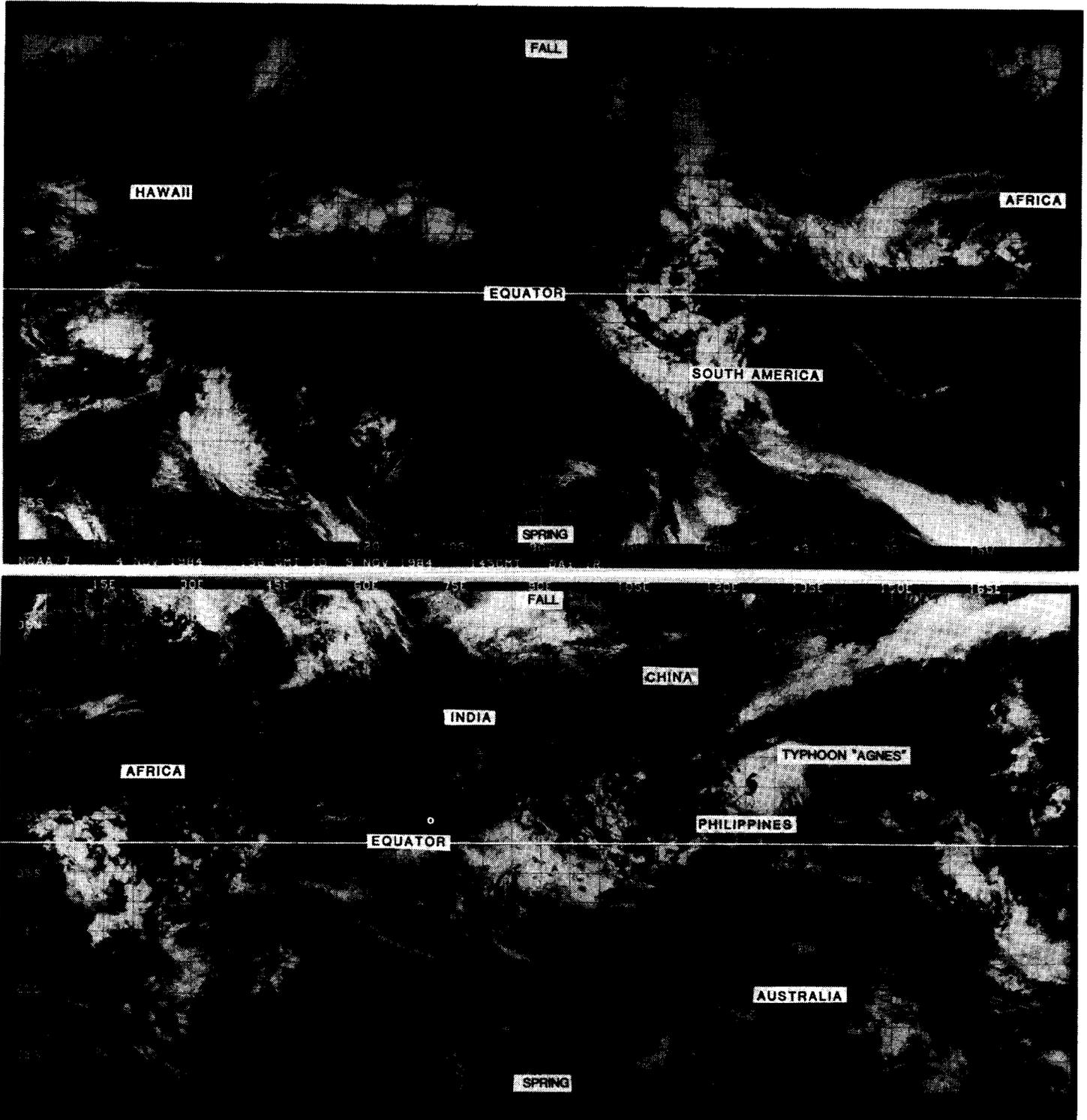


TEXAS



GLOBAL WEATHER SATELLITE PHOTO

Nov. 4 - 5

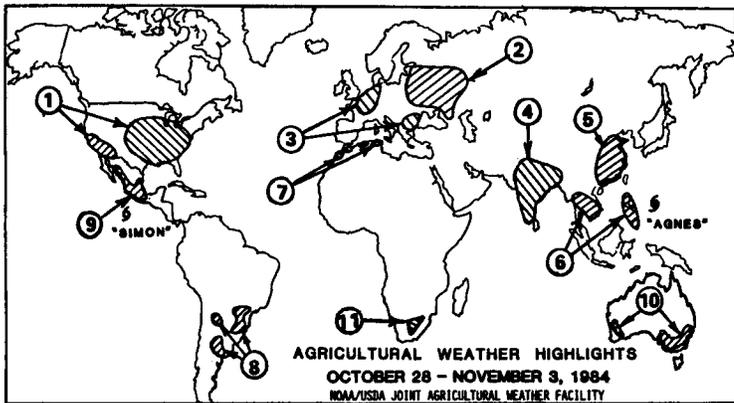


International Weather and Crop Summary

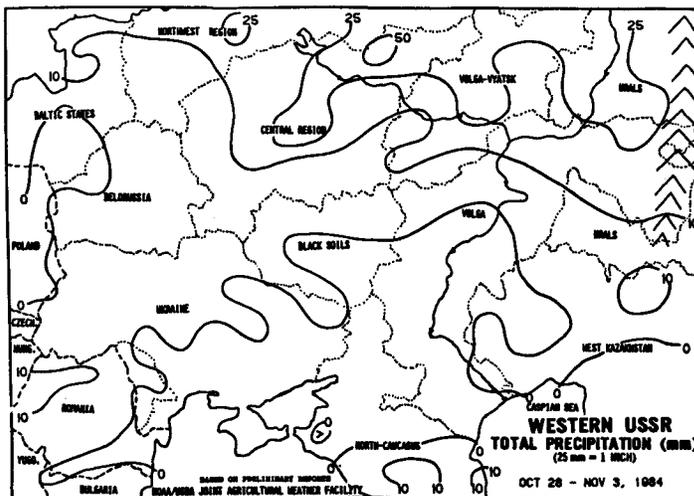
Oct. 28 to Nov. 3

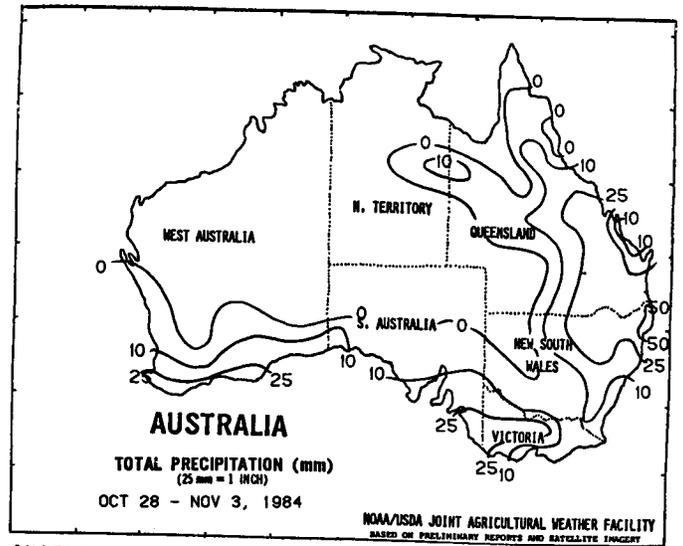
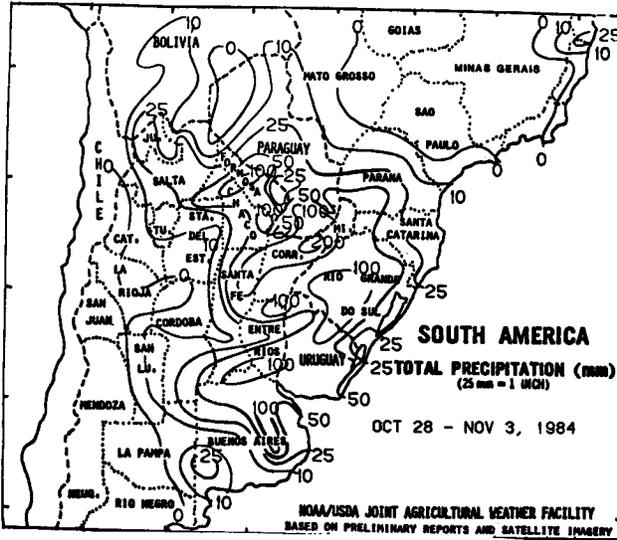
HIGHLIGHTS:

1. UNITED STATES ... Untimely, prolonged rain limits harvest and seriously impedes planting winter grains in the Corn Belt and Delta. In contrast, sunny weather favors rapid harvest across the Southwest, and most of the Great Plains and Southeast.
2. WESTERN USSR ... Winter grains are cold hardening in the north. Cool, dry weather favors late harvesting in the south, but showers are needed for winter wheat establishment.
3. EUROPE ... Dry weather relieves persistent wetness in the northwest. Topsoil moisture is unfavorably low for early winter grain growth in parts of the southeast.
4. SOUTH ASIA ... Dry weather covers most of the region, but moisture is mostly adequate for wheat.
5. EASTERN ASIA ... Favorably dry harvest weather continues in most areas. Warm temperatures aid cotton and winter wheat.
6. SOUTHEAST ASIA ... Tropical Storm Warren produces heavy rain in Vietnam, likely damaging coastal rice. Moderate rain falls in the Philippines as Tropical Storm Agnes approaches the islands.
7. NORTHWESTERN AFRICA ... Morocco's and northwestern Algeria's crop areas await the onset of autumn planting rains.
8. SOUTH AMERICA ... Wetness delays summer crop plantings in eastern Argentina and Brazil's southern soybeans areas. Hot, dry weather stalls planting over Brazil's northern soybean area. Wheat is maturing in Brazil and filling grain in Argentina; moisture is abundant.
9. MEXICO ... Dry, mild conditions aid crop harvest over the northwestern half. Elsewhere, a few showers slightly interfere with farm activities.
10. AUSTRALIA ... Wet weather slows wheat harvesting in southeastern Queensland, but helps grain filling in Victoria. Light showers in the west slightly delay early barley harvesting.
11. SOUTH AFRICA ... Near-normal rain favors early corn. However, moisture is most critical in January and February.



WESTERN USSR...The principal storm track remained across the north, producing 10-25 mm of precipitation. The south's mostly dry weather was caused by a west to east ridge of high pressure. Seasonable temperatures allowed continued winter grain growth over the southern and western portion of the region. However, parts of the southern Ukraine and Volga Valley have been dry for the past 3 weeks; additional showers would favor early plant establishment. Late harvesting of summer crops continued under mostly favorable weather. Winter grains across the Central Region, Volga Vyatsk, and northern Urals began hardening, as weekly temperatures averaged below the growth threshold value (5°C).



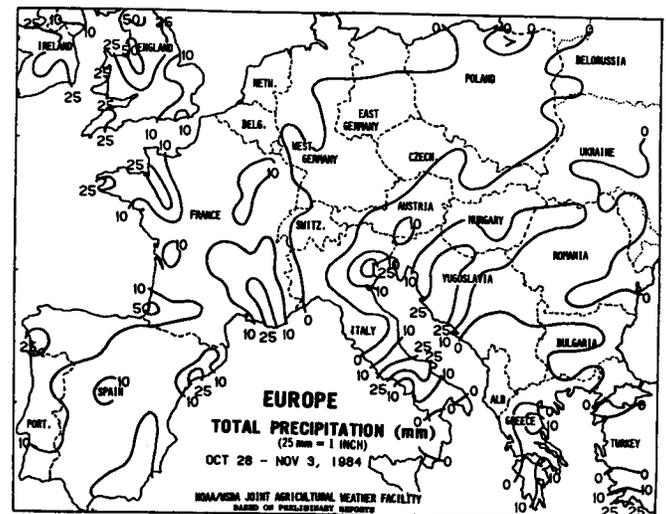


SOUTH AMERICA...Locally heavy rain (75-207 mm) covered eastern Argentina and southern Brazil, halting fieldwork, but providing abundant topsoil moisture for early summer crop growth and grain filling wheat. Argentina's corn planting is about 90 percent complete, but wetness delayed sorghum, sunflower, cotton, and soybean plantings. Excessive rain inundated cotton/sorghum areas in Formosa, Corrientes, and northern Santa Fe, and, corn/sunflower/soybean areas of northeastern Buenos Aires and southern Entre Rios. Locally heavy rain delayed the wheat harvest and early soybean planting in Rio Grande do Sul. In contrast, deficient moisture and hot weather stalled soybean planting in Brazil's northern crop areas. Soybean planting lags behind schedule in northern Parana (10 percent vs 30 percent normally). Unfavorable hot, dry weather extends into Mato Grosso do Sul, Sao Paulo and southern Minas Gerais.

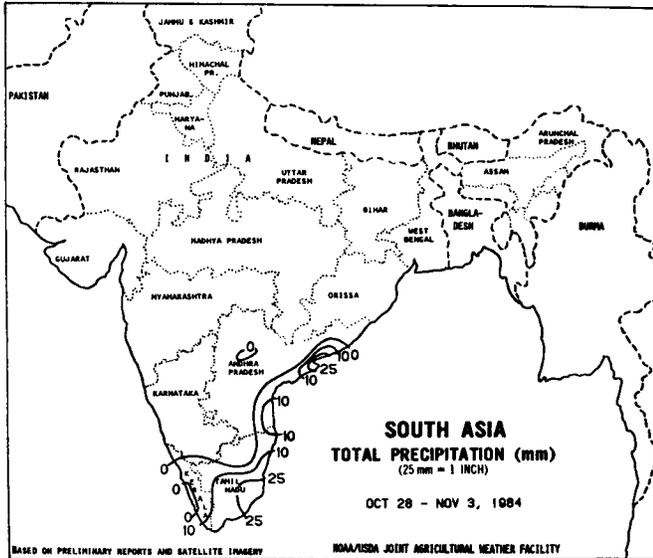
AUSTRALIA...Showers fell over nearly all of the wheat belt. The heaviest rain (28-43 mm) fell over southeastern Queensland and northern New South Wales, delaying the wheat and barley harvests. The moisture aided newly-sown cotton and sorghum emergence. Wheat is filling grain over the remainder of Australia's major producing region. Beneficial rain (10-22 mm) fell over wheat in Victoria, and extreme eastern South Australia. A drying trend over southern New South Wales, Victoria and South Australia during the past several weeks reduced moisture reserves for the late planted crop. Light showers fell in western crop areas where the barley harvest has begun. While dry harvest weather is needed in northern wheat areas, additional showers in the south during the next few weeks would still benefit yield prospects.



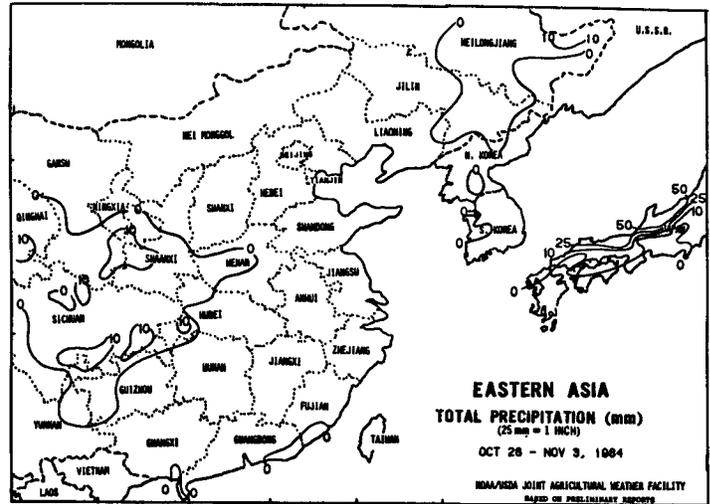
MEXICO...Sunny, mild weather favored harvesting of mature crops and development of winter vegetables across the northwestern half of the country. Light rain slowed corn and bean harvesting for a day or two over the southern Plateau corn belt and sugarcane and coffee along the east central coast. Scattered, moderate rains also delayed harvesting, but helped immature crops over Central America.



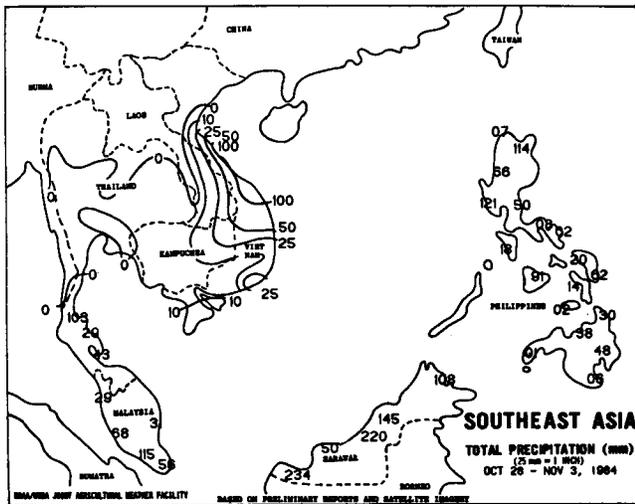
EUROPE...Generally dry weather relieved persistent wetness in northern France, the Netherlands, Belgium, and West Germany. The favorable weather aided summer crop late harvesting. Southwestern France's light, scattered showers caused only minor corn harvest delays. Showers scattered over southern Spain. Additional rain is needed before winter wheat planting can begin. Light showers dotted southeastern Europe. Topsoil moisture is unfavorably low for early growth of winter grains in southeastern Yugoslavia, southeastern Romania, and Bulgaria. Poland's and Czechoslovakia's winter grain areas were dry, but adequate soil moisture met crop moisture requirements. Weekly temperatures averaged near normal in most areas.



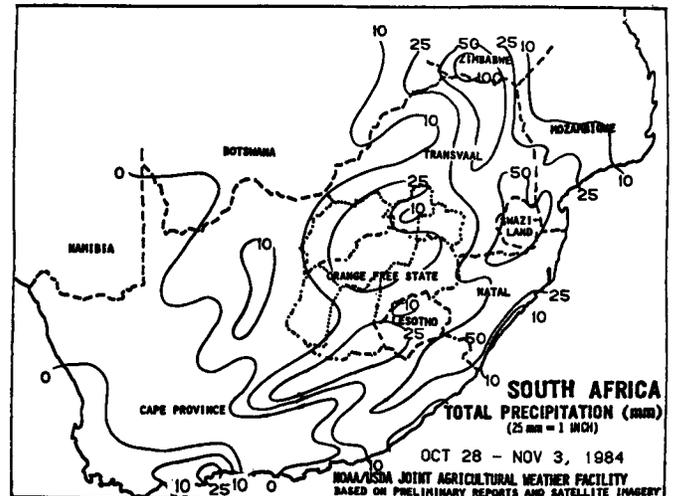
SOUTH ASIA...Seasonally dry weather covered most of India. Light to moderate precipitation (10-40 mm) was limited to Kerala, Tamil Nadu, and coastal Andhra Pradesh. Cotton is mostly developing bolls, but a portion of the crop is opening bolls. Cotton harvesting normally begins in November and extends through February. Eastern dry weather favored maturing winter rice. Dry conditions in Maharashtra and Andhra Pradesh benefited groundnut harvesting. Below-normal temperatures favored the western wheat belt, but above-normal temperatures in the east were unfavorable for emergence. Dry weather in Pakistan benefited cotton harvesting.



EASTERN ASIA...Favorable weather continued in the agricultural region of eastern China. Light showers (mostly less than 10 mm) fell to the west. North China Plain's dry weather benefited cotton and final soybean harvesting. Temperatures averaged above normal, aiding winter wheat establishment and late cotton boll development. Winter wheat soil moisture supplies are adequate in most of the region. Winter wheat normally enters dormancy by mid-November in the north and by mid-December near the Yangtze Valley. Southern dry weather favored maturing late rice. Winter grain soil moisture in southern Korea favors establishment.



SOUTHEAST ASIA...Tropical storm Warren remained in the South China Sea early in the week. Warren then weakened and moved onshore, producing heavy rain (100 mm) in central Vietnam. Coastal flooding likely damaged rice. Mostly dry weather covered northern and south central Thailand, while light showers (mostly less than 5 mm) fell across the central region. Most Thai rice has adequate moisture following several weeks of late-season precipitation. The dry season in Thailand normally begins in November. Moderate rain covered the Philippines as Tropical Storm Agnes approached the islands. Drier weather would benefit maturing lowland rice.



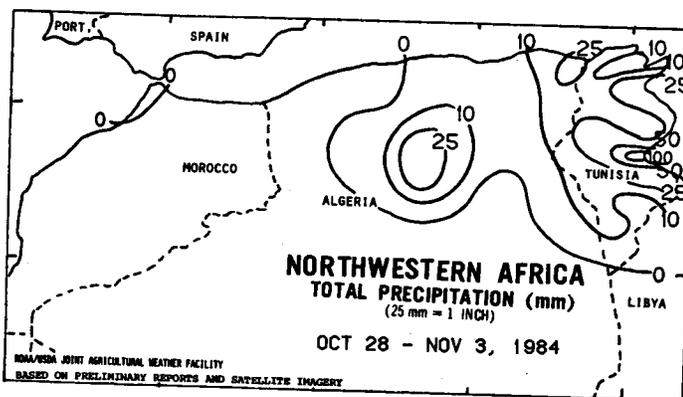
SOUTH AFRICA...Moderate rain covered most of eastern South Africa. Beneficial precipitation (as much as 45 mm) fell in the West Transvaal and Northwestern Orange Free State, the two major producing provinces. Light to moderate showers also favored early corn growth in northern Transvaal and the southern Orange Free State. Temperatures averaged a little above normal, increasing the evaporative demand. Corn planting normally continues through November and can extend into December. Precipitation has been near-normal in most of the Maize Triangle, similar to last year, creating favorable planting and early growth conditions. However, moisture conditions during January and February will have a large impact on the final yield.



OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, \$300

**WEEKLY NEWS BULLETIN
SECOND CLASS**

(continued from p. 27)



NORTHWESTERN AFRICA... Morocco's and northwestern Algeria's crop areas await the onset of autumn rains before winter wheat planting can begin. Showers continued to favor wheat planting in eastern Algeria and Tunisia but the heaviest precipitation fell south of the major crop areas. Temperatures averaged near normal over the region during the week.

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

Annual subscriptions: domestic \$25, foreign \$33 (in U.S. funds by international money order or check drawn on U.S. bank) payable to U.S. Department of Commerce, NOAA. POSTMASTER: Send address changes to NOAA/USDA, Joint Agricultural Weather Facility, USDA South Building, Room 5844, Washington, D.C. 20250. Order subscriptions from the office and address listed above. Second class postage paid at Washington, D.C., and additional mailing offices.

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Weather Service/Climate Analysis Center
Managing Editor Don Haddock
Meteorologists Lyle Denny,
Ray McInturff, Jim Williams, Wes Byrd,
and Mark Brusberg

Subscriptions (202) 447-7917. . . Cheryl Caleco

U.S. DEPARTMENT OF AGRICULTURE
Economics Management Staff
Editor Mary Maher
Statistical Reporting Service
Agricultural Statistician Bill Brannen
World Agricultural Outlook Board
Agricultural Weather Analysts. . . Ray Motha,
Tom Puterbaugh, and Ron Lundine