

WEEKLY WEATHER AND CROP BULLETIN

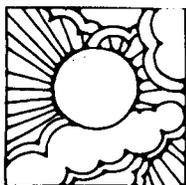
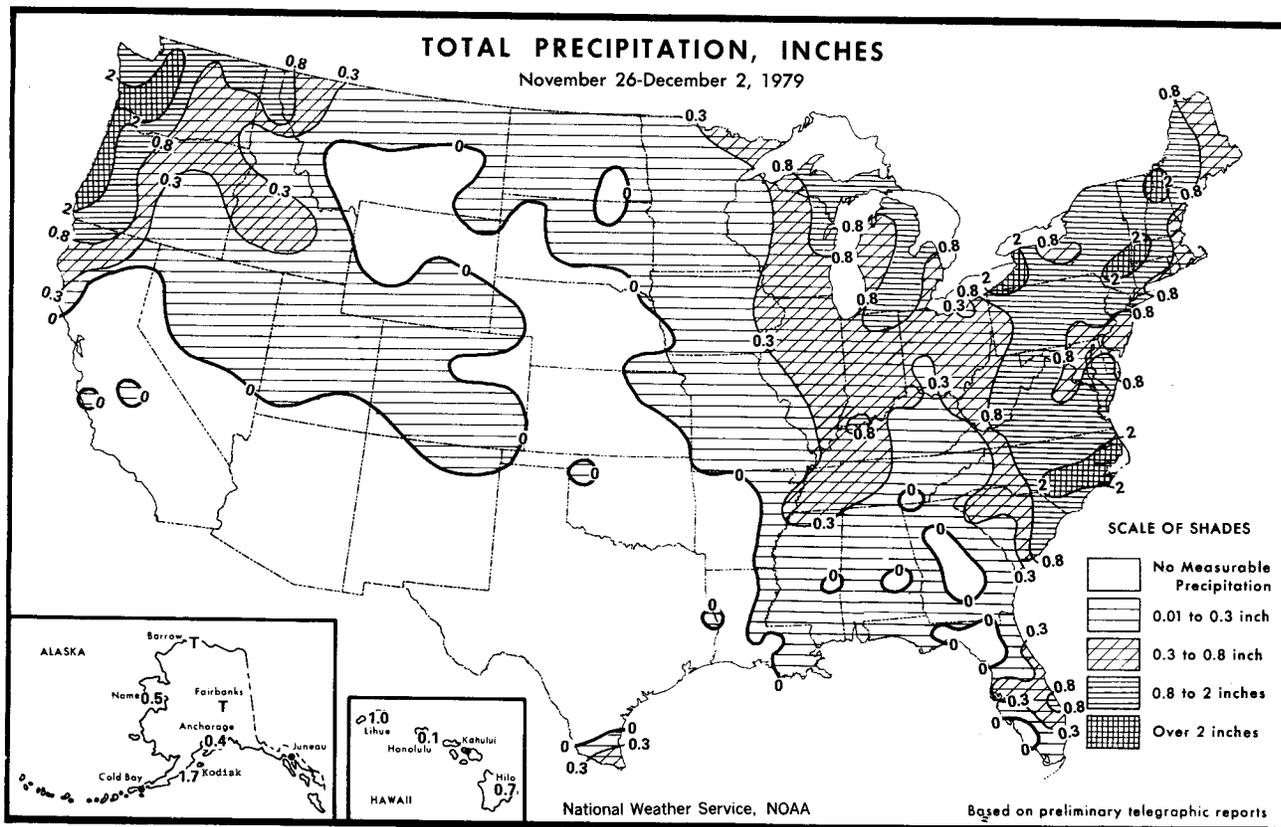
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National Weather Summary

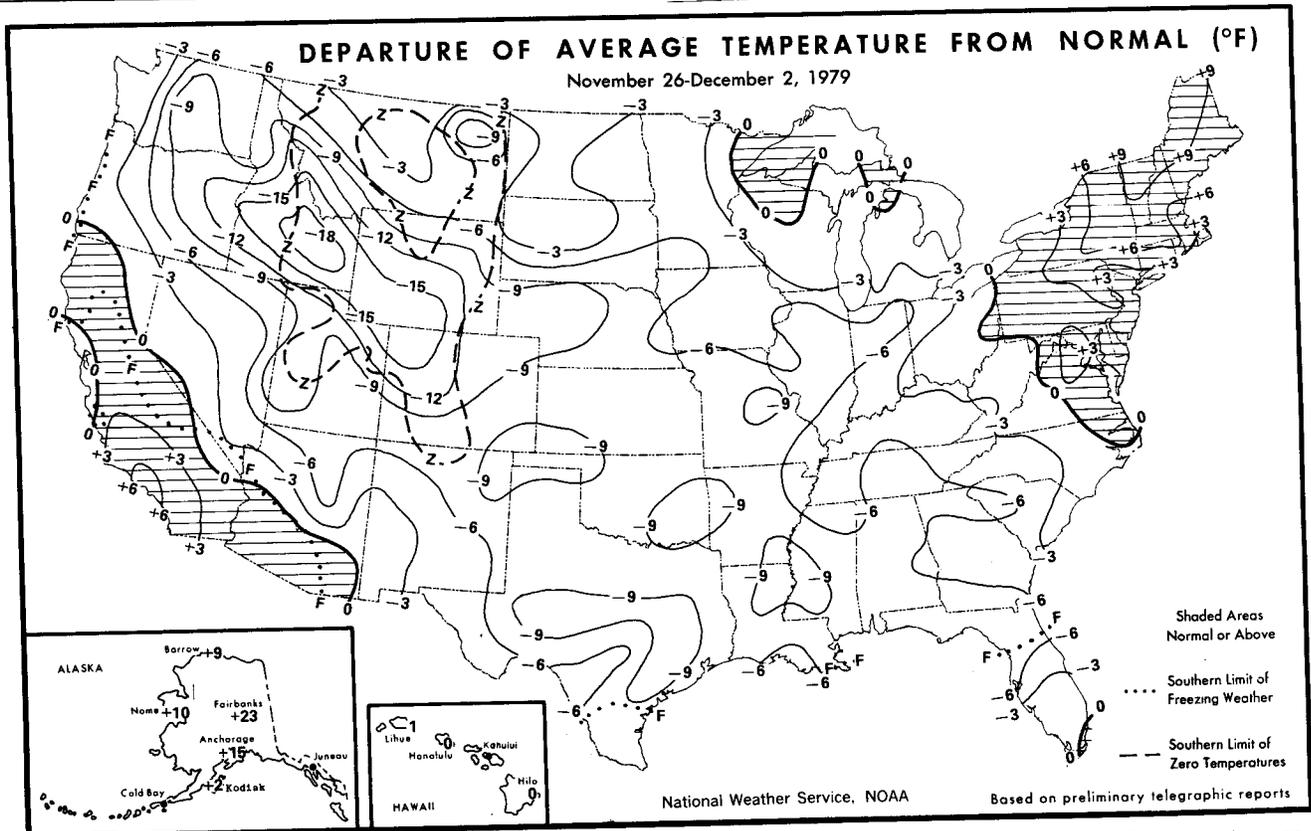
November 26 - December 2

HIGHLIGHTS: A cold airmass enveloped the Nation from the Sierras in the West to the Atlantic Ocean. The cold air was centered in a strong high pressure system located in Idaho and elongated southeastward.

Weekly temperatures averaged 19 degrees colder than normal near the center of the cold air. Very warm temperatures early in the week over New England and the mid-Atlantic States kept the week's averages near or above normal. Cold Canadian air flowing over the warmer Great Lakes caused snow showers south of the Lakes and some heavy accumulations on the lee shores.

A strong low pressure system in the Great Lakes area on Monday caused a variety of weather conditions from the northern Plains to the East Coast. Cold weather pushed southward through the Rockies and Plains, while record-breaking warm air reached northward through New England. Tornadoes, thunderstorms, and rain were common in the East, while snow and winterlike weather spanned a region from northern Michigan through the northern Plains. Snow showers dotted the Rockies. The weather was generally fair and mild from the Southwest to the Southeast. Record-breaking temperatures in the East included 74° in Washington, D.C., 67° in Syracuse, and Albany, N.Y., and 58° at Portland, Maine.

On Tuesday, as one low pressure center moved into southeastern Canada, a new low deepened in the Texas Panhandle. Scattered light rain and snow fell from the Panhandle across the middle Mississippi Valley to the western Great Lakes. Light snow was scattered across the northern Rockies and Plains to the upper Mississippi Valley. The snow and blowing snow reduced visibilities,



and coupled with sharply dropping temperatures, reduced wind chill temperatures into the very cold category. By evening, skies were fair over much of the Atlantic Coast, the southern two-thirds of the Plains, and the Southwest.

A cold front pushed rapidly eastward and off the Atlantic Coast on Wednesday. Light rain accompanied the front. Snow extended from the Dakotas across the upper Mississippi Valley and the central and northern Lakes area. Snow showers occurred from the eastern Great Lakes to the Appalachians after the front passed. Rain showers continued along the Gulf Coast and in Florida. Although temperatures in the East were quite warm at midday, cold air finally moved in and ended the unusual warm spell. Cold air continued to push southward through the Plains and the Mississippi Valley behind the front. Freeze warnings ranged as far south as Louisiana.

A strong high pressure system over the Rockies brought very cold temperatures from the Plains westward on Thursday. Below-freezing temperatures pushed southward across much of Texas, the lower Mississippi Valley, Alabama, and Georgia. Some low temperature records in the West included -30° at West Yellowstone, Mont., -15° at Laramie, Wyo., -21° at Gunnison, Colo., and -11° at Pocatello, Idaho. Cold air from Canada blew across the warmer Great Lakes again bringing snow showers south of the Lakes to the Appalachians. Some areas near the eastern Lakeshores accumulated heavy amounts.

Friday dawned cold and clear over most of the Nation. The high pressure centering the cold air over the northern Rockies remained nearly stationary but elongated southeastward. The cold weather continued to push southward and eastward. Minimum temperatures below freezing extended through most of Texas and well into Mexico. Fortunately, the

lower Rio Grande Valley, with its important vegetables, was spared the freezing temperatures. In the Southeast, the freeze extended into the Panhandle and parts of northern Florida. On Friday, record low temperatures included 13° at San Angelo, Tex., and 22° at Tallahassee, Fla. The cold air-mass covered the United States from the Cascades in the West to off the East Coast. Snow showers continued along and to the south of the Great Lakes. Heavy accumulations were recorded over much of the lee shores of the Lakes.

Snow squalls moving off the lower Great Lakes on Saturday continued to dump very heavy amounts in some areas. Twenty inches of new snow in the 24 hours ending at 9 am Saturday morning at Buffalo, N.Y., was the greatest one-day amount since 1945. Amounts of 2 feet or more were common in the area. Elsewhere, widely scattered snow showers were reported in central sections of the Dakotas and Nebraska with some snow in the mountains of Oregon and Washington. Rain fell along the northern Pacific Coast. The cold weather persisted from the Cascades to the Atlantic. Some of the record-breaking temperatures included 20° at Augusta, Ga., 27° at Pensacola, Fla., and 14° at El Paso, Tex.

On Sunday, a low pressure system in eastern New York continued to pull cold Canadian air across the Lakes producing snow squalls on the lee sides. As much as 2 to 3 feet of snow fell over parts of northeastern Ohio, northwestern Pennsylvania, and western New York. Elsewhere, a frontal system continued to work its way inland over the Pacific Northwest. Rain, with snow at higher elevations, reached from the northern half of the Pacific Coast through the northern half of the Plateau and into Montana. Gusty winds were blowing snow along the eastern slopes of the Rockies.



National Agricultural Summary

November 26 - December 2

HIGHLIGHTS: Snows in the Pacific Northwest brought needed moisture and protective snowcover but slowed fieldwork. Heavy snow also fell throughout the Great Lakes States hampering final row crop harvests and fall plowing. Throughout the South, farmers had from 2 to 4 days suitable for fieldwork; in the Corn Belt, only 1 to 4 days were available. Plowing was close to schedule in the Corn Belt except in Michigan. Winter wheat generally rated fair to good; planting was virtually complete. Cattle began grazing fall-planted small grains. Corn harvest continued to lag in the northern Corn Belt but elsewhere was almost complete. Cotton harvest reached 77%, surpassing last year's 59% and the 70% average. Soybean harvesting centered in the Delta and the Southeast. Unseasonably low temperatures continued the usual decline for grassland throughout most of the Nation. LP gas supplies held steady from the previous week at 10% tight and 87% adequate; shortages developed in parts of the western Corn Belt where drying high-moisture corn created a heavy demand. Diesel supplies declined to 16% tight and 83% adequate. Gasoline scored 13% tight and 86% adequate.

SMALL GRAINS: Minor acreages of winter wheat remained to be seeded across the South. Most of the crop was emerged ranging from 100% in the Corn Belt to 90% in Kansas, 85% in Oklahoma, and 82% in Texas. Kansas wheat stands were short and uneven in central and south central areas but good elsewhere. Nebraska winter wheat had snowcover in western and northern areas. A light snow covered North Dakota wheat but not enough to protect the crop from winter weather. Montana wheat rated fair with minimum snowcover; wind damage proved light. Low temperatures slowed Oklahoma wheat growth; 85% was up to stand. Cattle grazed 15% of the Oklahoma acreage, 5 points less than last year but 5 points more than average. Texas wheat provided grazing to stocker cattle throughout the High Plains where November rains improved prospects. East Texas and Blackland small grain fields provided good grazing; elsewhere, prospects were bleak with the exception of irrigated fields.

CORN: Corn harvest neared completion in all major-producing States except Wisconsin at 80%, Minnesota and South Dakota at 84%, and Michigan at 85%. Normally, harvests in these four States would be approaching 100%. Snow and high-moisture content grain in the range of 26% slowed the Minnesota harvest. Iowa reported subnormal harvest losses.

SOYBEANS: Soybean combining centered in two areas--the Delta and the Southeast. Harvest ranged from 93% in Alabama to 95% in Mississippi and 97% in Arkansas. Combining stood at 74% in South Carolina, 77% in North Carolina, and 88% in Georgia.

COTTON: Cotton picking advanced to 77%, surpassing last year's 59% and the 70% average. Growers in all States continued to make good progress, surpassing most recent years except in Tennessee where picking stood at 77%. The California harvest reached 94%, 19 points ahead of last year. The Texas harvest reached 69% statewide; picking on the Plains was more than half done. Clear weather aided harvest activities. Arkansas gins began closing for the season; some farmers worked on their second picking.

OTHER CROPS: The grain sorghum harvest was practically finished. South Dakota growers reached 94%, and Texas stood at 98%.

Sunflower combining ranged from 90% in Minnesota to 98% in South Dakota and 99% in North Dakota; the crop needs to be dried before moving into marketing channels or storage.

FRUITS & NUTS: Growers pruned and cleaned up deciduous orchards. The pecan harvest advanced across the South, ranging from a late 54% in Texas to an early 76 to 79% in the Southeast.

Florida citrus groves rated excellent following light rainfall. Orange and grapefruit harvests for processing increased seasonally. Texas citrus harvests increased moderately; cool weather raised the sugar content. Arizona growers harvested lemons, Navels, sweets, tangerines, and grapefruit. California growers harvested good-quality grapefruit, lemons, and Navels; Valencias sized well.

VEGETABLES: Florida vegetable shipments increased 30% from the previous week, although low temperatures slowed maturity and harvest activity. Most vegetable crop volumes held steady or increased; only cabbage supplies declined. Strawberry growth improved; scattered blooms showed in the north central area. Freezing temperatures hit virtually all of Texas, except the lower Rio Grande Valley where a light frost burned the plant tips of peppers, tomatoes, and eggplants. Elsewhere, in Texas, growers harvested cold-hardy crops. California growers harvested moderate volumes of most vegetables, although a significant amount of cauliflower was diverted to processors. Low temperatures damaged some processing-onion acreage in northern California.

PASTURES & LIVESTOCK: Pastures generally rated fair to good across the South where cattle grazed annual grasses. Some forage was available further north where herds were turned on dormant grasslands. Southern California and Arizona ranges needed soil moisture to improve winter browse. Only minor losses of cattle were attributed to recent snowstorms in the mountains and central Plains. Helicopters dropped hay to stranded cattle in some areas of deepest snow.

Weather Data for the Week Ending Dec. 2, 1979

| 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. 3 | Pct. normal since Sept. 3 | Average maximum | Average minimum | Temperature °F | | Precipitation | |
| | | | | | | | | | | | | | | 90 and above | 32 and below | .01 inch or more | .50 inch or more |
| ALA. Birmingham . . . | 53 | 30 | 71 | 20 | 41 | -6 | .1 | -1.0 | T | 16.8 | 165 | 77 | 41 | 0 | 4 | 1 | 0 |
| Mobile . . . | 60 | 35 | 76 | 25 | 48 | -8 | .2 | -1.9 | .2 | 19.6 | 158 | 72 | 36 | 0 | 4 | 1 | 0 |
| Montgomery . . . | 57 | 32 | 75 | 23 | 45 | -6 | 0 | -1.0 | 0 | 9.4 | 93 | 76 | 31 | 0 | 4 | 0 | 0 |
| ALASKA. Anchorage . . | 39 | 28 | 45 | 20 | 33 | 17 | .4 | -1.1 | .1 | 6.0 | 125 | 92 | 71 | 0 | 4 | 4 | 0 |
| Barrow . . . | 8 | -5 | 14 | -12 | 2 | 9 | T | -1.1 | T | .6 | 46 | 70 | 57 | 0 | 7 | 2 | 0 |
| Fairbanks . . . | 25 | 9 | 38 | -1 | 17 | 23 | T | -1.2 | T | .9 | 39 | 84 | 57 | 0 | 7 | 2 | 0 |
| Kodiak . . . | 41 | 27 | 46 | 20 | 34 | 1 | 1.7 | -1.5 | 1.5 | 15.3 | 86 | 91 | 68 | 0 | 3 | 3 | 1 |
| Nome . . . | 24 | 11 | 30 | -2 | 18 | 9 | .5 | -1.3 | .1 | 8.6 | 179 | 87 | 63 | 0 | 7 | 6 | 0 |
| ARIZ. Flagstaff . . . | 42 | 18 | 54 | 7 | 30 | -3 | 0 | -1.4 | 0 | 2.6 | 58 | 56 | 23 | 0 | 7 | 0 | 0 |
| Phoenix . . . | 71 | 41 | 75 | 37 | 56 | 1 | 0 | -1.1 | 0 | .3 | 21 | 36 | 12 | 0 | 0 | 0 | 0 |
| Tucson . . . | 69 | 43 | 76 | 36 | 56 | 2 | 0 | -1.2 | 0 | .3 | 13 | 31 | 12 | 0 | 0 | 0 | 0 |
| Winslow . . . | 45 | 17 | 61 | 9 | 31 | -7 | 0 | -1.1 | 0 | .6 | 33 | -- | -- | 0 | 6 | 0 | 0 |
| Yuma . . . | 73 | 47 | 77 | 42 | 60 | 1 | 0 | -1.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ARK. Fort Smith . . . | 49 | 24 | 66 | 18 | 36 | -9 | T | -1.7 | T | 6.6 | 67 | 84 | 32 | 0 | 7 | 0 | 0 |
| Little Rock . . . | 51 | 29 | 68 | 20 | 40 | -5 | T | -1.0 | T | 8.7 | 83 | 73 | 32 | 0 | 5 | 0 | 0 |
| CALIF. Bakersfield . . | 69 | 43 | 75 | 40 | 56 | 5 | 0 | -1.2 | 0 | .8 | 73 | -- | 43 | 0 | 0 | 0 | 0 |
| Eureka . . . | 58 | 43 | 64 | 32 | 51 | 0 | .4 | -1.1 | .4 | 12.9 | 126 | 84 | 63 | 0 | 1 | 1 | 0 |
| Fresno . . . | 63 | 40 | 72 | 35 | 52 | 3 | T | -1.4 | T | 1.5 | 79 | 94 | 49 | 0 | 0 | 0 | 0 |
| Los Angeles . . . | 75 | 54 | 81 | 52 | 65 | 6 | 0 | -1.5 | 0 | .4 | 15 | 46 | 30 | 0 | 0 | 0 | 0 |
| Red Bluff . . . | 62 | 41 | 73 | 37 | 51 | 2 | 0 | -1.8 | 0 | 6.8 | 142 | 65 | 45 | 0 | 0 | 0 | 0 |
| San Diego . . . | 74 | 53 | 78 | 49 | 63 | 5 | 0 | -1.4 | 0 | 1.0 | 48 | 64 | 37 | 0 | 0 | 0 | 0 |
| San Francisco . . . | 60 | 43 | 64 | 40 | 52 | -1 | 0 | -1.0 | 0 | 4.1 | 114 | 84 | 50 | 0 | 0 | 0 | 0 |
| Stockton . . . | 62 | 39 | 67 | 36 | 51 | 2 | T | -1.7 | T | 2.4 | 83 | -- | 52 | 0 | 0 | 0 | 0 |
| COLO. Denver . . . | 36 | 11 | 54 | 4 | 24 | -12 | T | -1.1 | T | 3.3 | 110 | 79 | 47 | 0 | 7 | 0 | 0 |
| Grand Junction . . . | 31 | 8 | 35 | 4 | 20 | -14 | .2 | -1.1 | .2 | 1.1 | 50 | 78 | 48 | 0 | 7 | 1 | 0 |
| Pueblo . . . | 46 | 11 | 62 | 6 | 28 | -8 | .1 | -1.0 | .1 | 1.9 | 90 | -- | 33 | 0 | 7 | 1 | 0 |
| CONN. Bridgeport . . . | 49 | 36 | 63 | 27 | 42 | 3 | .5 | -1.4 | .4 | 9.9 | 104 | 55 | 43 | 0 | 4 | 1 | 0 |
| Hartford . . . | 49 | 31 | 65 | 19 | 40 | 5 | .9 | -1.2 | .9 | 11.4 | 103 | 67 | 43 | 0 | 4 | 1 | 1 |
| D.C. Washington . . . | 55 | 39 | 74 | 28 | 47 | 5 | .7 | -1.0 | .7 | 14.2 | 167 | 71 | 38 | 0 | 1 | 1 | 1 |
| FLA. Apalachicola . . | 63 | 39 | 78 | 27 | 51 | -6 | T | -1.8 | T | 20.0 | 141 | 84 | 41 | 0 | 2 | 0 | 0 |
| Daytona Beach . . . | 66 | 45 | 77 | 35 | 56 | -6 | .6 | -1.2 | .6 | 24.0 | 166 | 67 | 48 | 0 | 0 | 2 | 1 |
| Ft. Myers . . . | 73 | 57 | 86 | 45 | 65 | -1 | 0 | -1.2 | 0 | 15.4 | 108 | 78 | 43 | 0 | 0 | 0 | 0 |
| Jacksonville . . . | 64 | 38 | 78 | 28 | 51 | -6 | T | -1.4 | T | 21.4 | 153 | 79 | 47 | 0 | 2 | 0 | 0 |
| Key West . . . | 75 | 68 | 82 | 62 | 72 | -1 | .2 | -1.2 | .1 | 7.2 | 47 | 79 | 68 | 0 | 0 | 1 | 0 |
| Miami . . . | 76 | 63 | 86 | 51 | 70 | 0 | .2 | -1.2 | .1 | 18.0 | 93 | 87 | 63 | 0 | 0 | 2 | 0 |
| Orlando . . . | 69 | 48 | 80 | 37 | 59 | -5 | .2 | -1.2 | .2 | 12.0 | 94 | 78 | 40 | 0 | 0 | 1 | 0 |
| Tallahassee . . . | 62 | 32 | 79 | 20 | 47 | -8 | T | -1.8 | T | 14.1 | 116 | 92 | 34 | 0 | 4 | 0 | 0 |
| Tampa . . . | 68 | 48 | 81 | 36 | 58 | -5 | .4 | -1.1 | .3 | 15.2 | 146 | 69 | 47 | 0 | 0 | 1 | 0 |
| W. Palm Beach . . . | 74 | 59 | 83 | 46 | 67 | -3 | .7 | -1.3 | .5 | 28.0 | 135 | 84 | 64 | 0 | 0 | 2 | 0 |
| GA. Atlanta . . . | 52 | 32 | 71 | 21 | 42 | -5 | T | -1.9 | T | 13.3 | 143 | 82 | 36 | 0 | 4 | 0 | 0 |
| Augusta . . . | 58 | 29 | 71 | 20 | 43 | -6 | .1 | -1.5 | .1 | 7.6 | 100 | 81 | 30 | 0 | 4 | 1 | 0 |
| Macon . . . | 59 | 34 | 74 | 23 | 46 | -5 | T | -1.8 | T | 9.5 | 119 | 87 | 34 | 0 | 3 | 0 | 0 |
| Savannah . . . | 61 | 37 | 77 | 27 | 49 | -4 | .3 | -1.3 | .1 | 15.7 | 154 | 75 | 37 | 0 | 2 | 2 | 0 |
| HAWAII. Hilo . . . | -- | -- | -- | -- | 73 | 0 | .7 | -2.9 | -- | 30.4 | 93 | -- | -- | 0 | 0 | -- | -- |
| Honolulu . . . | 83 | 68 | 89 | 62 | 75 | 0 | .1 | -1.7 | .1 | 1.6 | 30 | -- | -- | 0 | 0 | 1 | 0 |
| Kahului . . . | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0 | 0 | -- | -- |
| Lihue . . . | -- | -- | -- | -- | 73 | -1 | 1.0 | -1.4 | -- | 6.0 | 52 | -- | -- | 0 | 0 | -- | -- |
| IDAHO. Boise . . . | 30 | 12 | 43 | 4 | 21 | -14 | .4 | -1.0 | .3 | 2.9 | 107 | 88 | 59 | 0 | 7 | 2 | 0 |
| Lewiston . . . | 37 | 25 | 48 | 18 | 31 | -6 | .1 | -1.2 | .1 | 3.3 | 100 | 85 | 63 | 0 | 6 | 2 | 0 |
| Pocatello . . . | 23 | 1 | 39 | -12 | 12 | -19 | .2 | -1.0 | .2 | 2.2 | 100 | 90 | 65 | 0 | 7 | 3 | 0 |
| ILL. Cairo . . . | 44 | 31 | 64 | 23 | 38 | -5 | .1 | -1.9 | .1 | 8.8 | 87 | -- | -- | 0 | 5 | 1 | 0 |
| Chicago . . . | 35 | 25 | 46 | 15 | 30 | -4 | .6 | -1.1 | .3 | 4.8 | 61 | 75 | 59 | 0 | 5 | 5 | 0 |
| Moline . . . | 32 | 21 | 44 | 8 | 27 | -6 | .6 | -1.2 | .3 | 4.7 | 56 | 81 | 60 | 0 | 7 | 4 | 0 |
| Peoria . . . | 32 | 22 | 41 | 9 | 27 | -6 | .6 | -1.2 | .5 | 4.4 | 55 | 88 | 63 | 0 | 6 | 4 | 0 |
| Rockford . . . | 31 | 20 | 45 | 1 | 26 | -5 | .6 | -1.2 | .5 | 4.0 | 43 | 82 | 56 | 0 | 7 | 4 | 1 |
| Springfield . . . | 35 | 23 | 44 | 12 | 29 | -6 | .3 | -1.2 | .2 | 3.4 | 40 | 92 | 65 | 0 | 5 | 5 | 0 |
| IND. Evansville . . . | 43 | 29 | 65 | 22 | 36 | -3 | .8 | -1.0 | .8 | 12.0 | 136 | 80 | 57 | 0 | 5 | 1 | 1 |
| Ft. Wayne . . . | 34 | 21 | 55 | 1 | 27 | -7 | .4 | -1.2 | .3 | 6.5 | 81 | 83 | 71 | 0 | 6 | 3 | 0 |
| Indianapolis . . . | 38 | 24 | 57 | 14 | 31 | -5 | .5 | -1.2 | .4 | 7.3 | 83 | 84 | 60 | 0 | 6 | 4 | 1 |
| South Bend . . . | 37 | 24 | 59 | 3 | 31 | -2 | .9 | -1.3 | .4 | 9.9 | 113 | 89 | 71 | 0 | 5 | 3 | 0 |
| IOWA. Burlington . . . | 32 | 23 | 43 | 9 | 28 | -5 | .3 | -1.1 | .3 | 4.2 | 50 | -- | -- | 0 | 5 | 1 | 0 |
| Des Moines . . . | 34 | 21 | 45 | 7 | 27 | -3 | T | -1.3 | T | 5.4 | 82 | 78 | 51 | 0 | 7 | 2 | 0 |
| Dubuque . . . | 31 | 20 | 44 | 3 | 25 | -4 | .5 | -1.0 | .4 | 4.7 | 47 | 81 | 64 | 0 | 6 | 5 | 0 |
| Sioux City . . . | 30 | 17 | 38 | 8 | 23 | -6 | T | -1.2 | T | 9.2 | 174 | 82 | 59 | 0 | 7 | 1 | 0 |
| KANS. Concordia . . . | 38 | 19 | 47 | 14 | 28 | -7 | T | -1.1 | T | 6.6 | 116 | 76 | 43 | 0 | 7 | 1 | 0 |
| Dodge City . . . | 40 | 16 | 51 | 12 | 28 | -9 | T | -1.1 | T | 4.3 | 110 | 77 | 32 | 0 | 7 | 0 | 0 |
| Goodland . . . | 38 | 18 | 51 | 13 | 28 | -5 | T | -1.1 | T | 3.0 | 107 | 72 | 43 | 0 | 7 | 0 | 0 |
| Topeka . . . | 39 | 22 | 50 | 12 | 30 | -7 | T | -1.3 | T | 6.7 | 94 | 73 | 41 | 0 | 6 | 1 | 0 |
| Wichita . . . | 41 | 23 | 50 | 16 | 32 | -7 | T | -1.2 | T | 6.7 | 94 | 69 | 38 | 0 | 7 | 0 | 0 |
| KY. Lexington . . . | 44 | 27 | 65 | 15 | 36 | -4 | .2 | -1.6 | .1 | 17.3 | 216 | 80 | 47 | 0 | 4 | 1 | 0 |
| Louisville . . . | 44 | 28 | 67 | 21 | 36 | -4 | .3 | -1.5 | .3 | 18.7 | 215 | 76 | 47 | 0 | 5 | 2 | 0 |

Based on preliminary reports and 1941-70 normals

Weather Data for the Week Ending Dec. 2, 1979

| 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-hours, in. | Total, in., since Sept. 3 | Pct. normal since Sept. 3 | Average maximum | Average minimum | Temperature °F | | Precipitation | |
| | | | | | | | | | | | | | | 90 and above | 32 and below | .01 inch or more | .50 inch or more |
| LA. Baton Rouge | 60 | 37 | 79 | 25 | 49 | -7 | T | -1.1 | T | 11.0 | 104 | 78 | 40 | 0 | 3 | 0 | 0 |
| LA. Lake Charles | 60 | 38 | 77 | 28 | 49 | -7 | T | -1.2 | T | 20.5 | 174 | 76 | 44 | 0 | 2 | 0 | 0 |
| LA. New Orleans | 61 | 37 | 80 | 27 | 49 | -8 | T | -1.0 | T | 8.8 | 76 | 78 | 40 | 0 | 3 | 1 | 0 |
| LA. Shreveport | 58 | 33 | 79 | 22 | 45 | -7 | T | -.9 | T | 12.4 | 131 | 79 | 33 | 0 | 4 | 0 | 0 |
| MAINE. Caribou | 39 | 29 | 47 | 15 | 34 | 10 | T | -.3 | T | 9.2 | 90 | 86 | 63 | 0 | 3 | 1 | 1 |
| MAINE. Portland | 47 | 31 | 58 | 19 | 39 | 7 | T | -.4 | T | 14.0 | 123 | 82 | 48 | 0 | 5 | 1 | 1 |
| MD. Baltimore | 52 | 32 | 72 | 24 | 42 | 2 | T | -.2 | T | 14.6 | 164 | 80 | 35 | 0 | 4 | 1 | 1 |
| MASS. Boston | 51 | 37 | 66 | 25 | 44 | 5 | T | -.8 | T | 10.0 | 93 | 70 | 42 | 0 | 4 | 1 | 1 |
| MASS. Chatham | 50 | 38 | 60 | 29 | 44 | - | T | -.2 | T | 9.9 | 92 | 68 | 55 | 0 | 3 | 2 | 0 |
| MICH. Alpena | 36 | 21 | 53 | 8 | 28 | -1 | T | 1.0 | T | 5.1 | 66 | - | - | 0 | 3 | 2 | 0 |
| MICH. Detroit | 36 | 25 | 57 | 14 | 31 | -3 | T | -.7 | T | 6.5 | 92 | 80 | 65 | 0 | 5 | 4 | 1 |
| MICH. Flint | 37 | 25 | 59 | 6 | 31 | -1 | T | -.2 | T | 6.2 | 87 | 73 | 65 | 0 | 5 | 5 | 1 |
| MICH. Grand Rapids | 36 | 24 | 55 | 10 | 30 | -2 | T | -.2 | T | 7.6 | 86 | 88 | 69 | 0 | 5 | 5 | 0 |
| MICH. Houghton Lake | 34 | 22 | 54 | 10 | 28 | 0 | T | -.7 | T | 5.1 | 61 | 89 | 72 | 0 | 5 | 4 | 1 |
| MICH. Lansing | 34 | 24 | 56 | 1 | 29 | -3 | T | -.9 | T | 5.3 | 73 | 91 | 73 | 0 | 5 | 5 | 0 |
| MICH. Marquette | 27 | 17 | 35 | 7 | 22 | -6 | T | 1.3 | T | 12.4 | 141 | 93 | 74 | 0 | 7 | 6 | 1 |
| MICH. Muskegon | 35 | 25 | 49 | 11 | 30 | -4 | T | -.6 | T | 8.1 | 87 | 79 | 63 | 0 | 5 | 5 | 0 |
| MICH. S. Ste. Marie | 33 | 18 | 51 | 5 | 25 | -1 | T | 1.3 | T | 11.6 | 117 | 86 | 57 | 0 | 6 | 4 | 1 |
| MINN. Duluth | 27 | 16 | 36 | 5 | 22 | -1 | T | -.6 | T | 4.9 | 70 | 75 | 51 | 0 | 7 | 2 | 0 |
| MINN. Internatl. Falls | 20 | 6 | 26 | -5 | 13 | -3 | T | -.4 | T | 5.4 | 87 | 87 | 69 | 0 | 7 | 4 | 0 |
| MINN. Minneapolis | 28 | 14 | 37 | 4 | 21 | -4 | T | -.1 | T | 6.2 | 111 | 85 | 60 | 0 | 7 | 2 | 0 |
| MINN. Rochester | 27 | 16 | 35 | 2 | 22 | -3 | T | -.2 | T | 7.8 | 134 | 91 | 59 | 0 | 7 | 2 | 0 |
| MINN. St. Cloud | 27 | 11 | 33 | 1 | 18 | -5 | T | -.2 | T | 6.5 | 120 | 81 | - | 0 | 7 | 2 | 0 |
| MISS. Jackson | 57 | 29 | 77 | 19 | 43 | -9 | T | -1.1 | T | 16.2 | 174 | 82 | 41 | 0 | 4 | 1 | 0 |
| MISS. Meridian | 57 | 30 | 76 | 20 | 43 | -7 | T | -1.1 | T | 18.6 | 202 | 85 | 39 | 0 | 4 | 0 | 0 |
| MO. Columbia | 35 | 23 | 48 | 13 | 29 | -9 | T | -.3 | T | 6.6 | 70 | 67 | 52 | 0 | 5 | 1 | 0 |
| MO. Kansas City | 35 | 22 | 48 | 12 | 29 | -7 | T | -.3 | T | 5.7 | 65 | 66 | 42 | 0 | 5 | 1 | 0 |
| MO. St. Louis | 37 | 23 | 50 | 13 | 30 | -9 | T | -.4 | T | 4.0 | 49 | 88 | 57 | 0 | 5 | 4 | 0 |
| MO. Springfield | 41 | 24 | 53 | 16 | 33 | -7 | T | -.6 | T | 6.8 | 69 | 73 | 39 | 0 | 5 | 1 | 0 |
| MONT. Billings | 36 | 21 | 51 | 13 | 28 | -2 | T | -.2 | T | 1.4 | 44 | 58 | 36 | 0 | 6 | 0 | 0 |
| MONT. Glasgow | 24 | 5 | 45 | -7 | 15 | -8 | T | -.1 | T | 1.3 | 50 | 69 | 44 | 0 | 6 | 1 | 0 |
| MONT. Great Falls | 36 | 17 | 55 | 4 | 27 | -5 | T | -.1 | T | 1.4 | 67 | 82 | 42 | 0 | 7 | 0 | 0 |
| MONT. Havre | 37 | 11 | 60 | 0 | 24 | 1 | T | -.1 | T | 1.4 | 67 | 82 | 42 | 0 | 7 | 0 | 0 |
| MONT. Helena | 33 | 9 | 54 | -1 | 21 | -6 | T | -.1 | T | 1.5 | 26 | 76 | 40 | 0 | 7 | 0 | 0 |
| MONT. Kalispell | 30 | 15 | 44 | 4 | 23 | -4 | T | -.1 | T | 2.6 | 63 | 88 | 68 | 0 | 7 | 2 | 0 |
| MONT. Miles City | 35 | 13 | 46 | 2 | 24 | -3 | T | -.1 | T | 5 | 22 | 74 | 53 | 0 | 7 | 0 | 0 |
| MONT. Missoula | 24 | 4 | 44 | -8 | 14 | -14 | T | -.2 | T | 1.5 | 52 | 85 | 75 | 0 | 7 | 1 | 0 |
| NEBR. Grand Island | 33 | 17 | 40 | 12 | 25 | -7 | T | -.4 | T | 6.8 | 158 | 74 | 50 | 0 | 7 | 0 | 0 |
| NEBR. Lincoln | 35 | 19 | 44 | 10 | 27 | -5 | T | -.2 | T | 7.0 | 132 | 83 | 48 | 0 | 7 | 0 | 0 |
| NEBR. Norfolk | 29 | 15 | 36 | 9 | 22 | -8 | T | -.1 | T | 7.7 | 188 | 90 | 60 | 0 | 7 | 0 | 0 |
| NEBR. N. Platte | 31 | 11 | 43 | 6 | 21 | -10 | T | -.1 | T | 6.2 | 182 | 71 | 50 | 0 | 7 | 0 | 0 |
| NEBR. Omaha | 33 | 20 | 44 | 10 | 26 | -7 | T | -.2 | T | 8.2 | 144 | 82 | 52 | 0 | 7 | 0 | 0 |
| NEBR. Valentine | 31 | 10 | 39 | 7 | 20 | -9 | T | -.1 | T | 3.6 | 129 | 93 | 58 | 0 | 7 | 0 | 0 |
| NEV. Ely | 42 | 11 | 51 | 2 | 26 | -3 | T | -.2 | T | 1.3 | 81 | 57 | 32 | 0 | 7 | 1 | 0 |
| NEV. Las Vegas | 58 | 34 | 66 | 30 | 46 | -2 | T | -.1 | T | 0 | 0 | 34 | 18 | 0 | 2 | 0 | 0 |
| NEV. Reno | 51 | 20 | 64 | 13 | 36 | 0 | T | -.2 | T | 5 | 36 | 76 | 27 | 0 | 6 | 0 | 0 |
| NEV. Winnemucca | 42 | 17 | 58 | 10 | 30 | -4 | T | -.3 | T | 1.2 | 60 | 78 | 42 | 0 | 7 | 0 | 0 |
| N.H. Concord | 48 | 29 | 64 | 18 | 39 | 7 | T | -.6 | T | 9.9 | 99 | 77 | 45 | 0 | 5 | 1 | 1 |
| N.J. Atlantic City | 51 | 30 | 66 | 19 | 41 | 1 | T | -.6 | T | 8.7 | 81 | 82 | 42 | 0 | 4 | 2 | 0 |
| N.J. Trenton | 50 | 37 | 68 | 27 | 44 | 3 | T | -.1 | T | 12.7 | 138 | - | - | 0 | 4 | 1 | 1 |
| N.MEX. Albuquerque | 49 | 22 | 67 | 16 | 35 | -4 | T | -.1 | T | 1.6 | 84 | 61 | 20 | 0 | 7 | 0 | 0 |
| N.MEX. Roswell | 52 | 22 | 77 | 12 | 37 | -5 | T | -.1 | T | 0 | 9 | - | - | 0 | 6 | 0 | 0 |
| N.Y. Albany | 48 | 31 | 67 | 21 | 39 | 7 | T | -.6 | T | 10.8 | 126 | 69 | 44 | 0 | 4 | 2 | 1 |
| N.Y. Binghamton | 41 | 28 | 63 | 17 | 35 | 4 | T | -.3 | T | 10.6 | 115 | 72 | 46 | 0 | 5 | 4 | 1 |
| N.Y. Buffalo | 41 | 30 | 64 | 18 | 35 | 2 | T | 1.7 | T | 14.5 | 144 | 77 | 52 | 0 | 5 | 5 | 2 |
| N.Y. New York | 50 | 38 | 66 | 27 | 44 | 2 | T | -.1 | T | 10.8 | 111 | 71 | 49 | 0 | 4 | 1 | 1 |
| N.Y. Rochester | 42 | 29 | 68 | 14 | 36 | 2 | T | -.5 | T | 9.3 | 119 | 87 | 52 | 0 | 5 | 6 | 0 |
| N.Y. Syracuse | 45 | 33 | 67 | 25 | 39 | 5 | T | -.7 | T | 10.6 | 116 | 77 | 48 | 0 | 4 | 2 | 1 |
| N.C. Asheville | 49 | 27 | 66 | 19 | 38 | -4 | T | -.6 | T | 14.6 | 151 | 80 | 34 | 0 | 5 | 1 | 0 |
| N.C. Charlotte | 53 | 31 | 67 | 21 | 42 | -4 | T | 1.0 | T | 16.6 | 189 | 85 | 30 | 0 | 4 | 1 | 1 |
| N.C. Greensboro | 53 | 29 | 69 | 19 | 41 | -2 | T | 1.1 | T | 20.3 | 226 | 81 | 32 | 0 | 4 | 1 | 1 |
| N.C. Hatteras | 60 | 43 | 72 | 28 | 52 | 0 | T | 2.2 | T | 22.6 | 150 | 76 | 52 | 0 | 1 | 2 | 1 |
| N.C. Raleigh | 55 | 30 | 70 | 16 | 42 | -3 | T | 1.0 | T | 12.9 | 140 | 92 | 39 | 0 | 4 | 1 | 1 |
| N.C. Wilmington | 62 | 37 | 76 | 27 | 49 | -2 | T | 1.4 | T | 17.3 | 148 | 78 | 40 | 0 | 3 | 1 | 1 |
| N.DAK. Bismarck | 28 | 11 | 37 | 6 | 20 | -2 | T | -.1 | T | 9 | 36 | 90 | 68 | 0 | 7 | 2 | 0 |
| N.DAK. Fargo | 22 | 10 | 28 | 1 | 16 | -4 | T | -.1 | T | 3.3 | 94 | 88 | 69 | 0 | 7 | 1 | 0 |
| N.DAK. Williston | 26 | 7 | 40 | -1 | 16 | -5 | T | -.1 | T | 5 | 24 | 82 | 59 | 0 | 7 | 1 | 0 |
| OHIO. Akron-Canton | 42 | 28 | 59 | 14 | 35 | 0 | T | -.7 | T | 12.8 | 168 | 75 | 53 | 0 | 5 | 5 | 0 |
| OHIO. Cincinnati | 44 | 28 | 65 | 18 | 36 | -2 | T | -.4 | T | 15.1 | 191 | 82 | 57 | 0 | 5 | 4 | 0 |
| OHIO. Cleveland | 41 | 28 | 62 | 14 | 34 | -1 | T | -.3 | T | 8.1 | 100 | 81 | 50 | 0 | 5 | 6 | 0 |
| OHIO. Columbus | 43 | 29 | 60 | 17 | 36 | 0 | T | -.3 | T | 12.1 | 175 | 79 | 55 | 0 | 5 | 2 | 0 |
| OHIO. Dayton | 40 | 26 | 61 | 15 | 33 | -3 | T | -.3 | T | 10.4 | 153 | 77 | 52 | 0 | 5 | 4 | 0 |
| OHIO. Toledo | 36 | 26 | 59 | 14 | 31 | -2 | T | -.8 | T | 9.1 | 128 | 76 | 59 | 0 | 5 | 5 | 1 |
| OHIO. Youngstown | 40 | 30 | 58 | 16 | 35 | 1 | T | -.5 | T | 9.6 | 113 | 73 | 53 | 0 | 5 | 5 | 0 |

Based on preliminary reports and 1941-70 normals

Weather Data for the Week Ending Dec. 2, 1979

| 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-hours, in. | Total, in., since Sept. 3 | Pct. normal since Sept. 3 | Average maximum | Average minimum | Temperature °F | | Precipitation | |
| | | | | | | | | | | | | | | 90 and above | 32 and below | .01 inch or more | .50 inch or more |
| OKLA.Okla. City . . . | 48 | 24 | 61 | 16 | 36 | - 8 | 0 | .3 | 0 | 3.7 | 50 | 68 | 30 | 0 | 7 | 0 | 0 |
| Tulsa . . . | 47 | 27 | 59 | 20 | 37 | - 7 | T | .4 | T | 7.9 | 87 | 71 | 39 | 0 | 5 | 0 | 0 |
| OREG.Astoria . . . | 49 | 37 | 55 | 29 | 43 | - 1 | 2.7 | .3 | 2.0 | 22.5 | 112 | 82 | 68 | 0 | 2 | 5 | 2 |
| Burns . . . | 32 | 11 | 46 | -2 | 22 | -10 | .1 | .3 | 1.1 | 3.5 | 121 | 83 | 44 | 0 | 7 | 2 | 0 |
| Medford . . . | 49 | 30 | 55 | 26 | 40 | - 1 | 1.2 | .4 | 1.2 | 8.7 | 145 | 94 | 64 | 0 | 6 | 1 | 1 |
| Pendleton . . . | 30 | 21 | 45 | 16 | 26 | -12 | .4 | 0 | .3 | 3.8 | 112 | 94 | 88 | 0 | 7 | 1 | 0 |
| Portland . . . | 45 | 35 | 53 | 30 | 40 | - 3 | 1.8 | .4 | .9 | 10.7 | 97 | 84 | 63 | 0 | 2 | 4 | 2 |
| Salem . . . | 46 | 35 | 51 | 31 | 41 | - 2 | 1.8 | .3 | 1.4 | 12.0 | 101 | 83 | 77 | 0 | 2 | 4 | 1 |
| PA.Allentown . . . | 48 | 32 | 67 | 23 | 40 | 4 | 1.1 | .2 | 1.1 | 14.6 | 147 | 79 | 41 | 0 | 4 | 1 | 1 |
| Erie . . . | 41 | 32 | 64 | 23 | 37 | 1 | 2.1 | 1.3 | .9 | 15.0 | 143 | -- | -- | 0 | 4 | 4 | 1 |
| Harrisburg . . . | 48 | 31 | 70 | 23 | 39 | 1 | .7 | .1 | .7 | 13.2 | 153 | 63 | 40 | 0 | 4 | 1 | 1 |
| Philadelphia . . . | 51 | 34 | 68 | 25 | 43 | 2 | .6 | .2 | .6 | 11.2 | 123 | 79 | 41 | 0 | 4 | 1 | 1 |
| Pittsburgh . . . | 43 | 29 | 65 | 22 | 36 | 1 | .6 | 0 | .4 | 8.6 | 110 | 65 | 42 | 0 | 5 | 6 | 0 |
| Scranton . . . | 45 | 31 | 68 | 22 | 38 | 4 | .7 | 0 | .7 | 12.1 | 142 | 74 | 40 | 0 | 4 | 1 | 1 |
| R.I.Providence . . . | 51 | 35 | 64 | 26 | 43 | 6 | .6 | .5 | .6 | 12.6 | 114 | 47 | 42 | 0 | 4 | 1 | 1 |
| S.C.Charleston . . . | 62 | 37 | 76 | 24 | 50 | - 3 | 1.2 | .6 | .8 | 23.4 | 225 | 78 | 35 | 0 | 3 | 2 | 1 |
| Columbia . . . | 57 | 31 | 70 | 20 | 44 | - 5 | .2 | .5 | .1 | 14.2 | 153 | 87 | 32 | 0 | 4 | 1 | 0 |
| Greenville . . . | 54 | 28 | 67 | 20 | 41 | - 5 | .2 | .6 | .2 | 14.6 | 145 | 82 | 34 | 0 | 5 | 1 | 0 |
| S.DAK.Aberdeen . . . | 29 | 14 | 36 | 3 | 21 | - 1 | T | .1 | T | 1.2 | 35 | 81 | 52 | 0 | 7 | 0 | 0 |
| Huron . . . | 30 | 12 | 35 | 3 | 21 | - 4 | T | .1 | T | 2.1 | 55 | 81 | 55 | 0 | 7 | 2 | 0 |
| Rapid City . . . | 39 | 15 | 58 | 8 | 27 | - 3 | T | .1 | T | 1.2 | 48 | 74 | 32 | 0 | 7 | 0 | 0 |
| Sioux Falls . . . | 26 | 10 | 33 | 1 | 18 | - 8 | .1 | .1 | T | 9.0 | 173 | 92 | 67 | 0 | 7 | 2 | 0 |
| TENN.Chattanooga . . . | 49 | 28 | 66 | 19 | 38 | - 6 | T | 1.1 | T | 16.6 | 158 | 78 | 44 | 0 | 4 | 0 | 0 |
| Knoxville . . . | 51 | 31 | 65 | 19 | 41 | - 4 | .1 | .8 | .1 | 10.4 | 114 | 78 | 41 | 0 | 4 | 1 | 0 |
| Memphis . . . | 50 | 33 | 71 | 27 | 42 | - 5 | .8 | .2 | .8 | 13.0 | 135 | 77 | 45 | 0 | 5 | 1 | 1 |
| Nashville . . . | 49 | 27 | 70 | 17 | 38 | - 5 | .4 | .5 | .2 | 20.5 | 233 | 78 | 37 | 0 | 4 | 2 | 0 |
| TEX.Abilene . . . | 56 | 27 | 78 | 17 | 42 | - 8 | 0 | .2 | 0 | 1.1 | 19 | 56 | 18 | 0 | 5 | 0 | 0 |
| Amarillo . . . | 47 | 20 | 67 | 16 | 34 | - 8 | 0 | .1 | 0 | 2.2 | 51 | 74 | 23 | 0 | 7 | 0 | 0 |
| Austin . . . | 62 | 36 | 79 | 25 | 49 | - 6 | 0 | .5 | 0 | 2.3 | 26 | 67 | 20 | 0 | 2 | 0 | 0 |
| Beaumont . . . | 61 | 38 | 79 | 26 | 50 | - 7 | 0 | 1.1 | 0 | 16.3 | 122 | 85 | 41 | 0 | 4 | 0 | 0 |
| Brownsville . . . | 66 | 48 | 84 | 36 | 57 | - 8 | .5 | .2 | .5 | 10.5 | 107 | 75 | 48 | 0 | 0 | 1 | 1 |
| Corpus Christi . . . | 67 | 44 | 87 | 33 | 55 | - 6 | T | .4 | T | 13.6 | 145 | 65 | 33 | 0 | 0 | 0 | 0 |
| Del Rio . . . | 66 | 33 | 85 | 26 | 49 | - 6 | 0 | .1 | 0 | 1.3 | 24 | 68 | 16 | 0 | 4 | 0 | 0 |
| El Paso . . . | 59 | 27 | 76 | 14 | 43 | - 4 | 0 | .1 | 0 | .4 | 17 | 46 | 18 | 0 | 4 | 0 | 0 |
| Fort Worth . . . | 57 | 33 | 68 | 25 | 45 | - 6 | 0 | .4 | 0 | 4.9 | 62 | 60 | 22 | 0 | 3 | 0 | 0 |
| Galveston . . . | 57 | 46 | 71 | 36 | 52 | - 8 | 0 | .8 | 0 | 14.9 | 130 | 68 | 51 | 0 | 0 | 0 | 0 |
| Houston . . . | 62 | 35 | 80 | 25 | 49 | - 9 | T | 1.0 | T | 13.7 | 108 | 81 | 41 | 0 | 4 | 0 | 0 |
| Lubbock . . . | 52 | 23 | 76 | 17 | 38 | - 7 | 0 | .1 | 0 | .9 | 18 | 51 | 17 | 0 | 7 | 0 | 0 |
| Midland . . . | 56 | 24 | 81 | 18 | 40 | - 9 | 0 | .1 | 0 | 1.1 | 31 | 53 | 17 | 0 | 5 | 0 | 0 |
| San Angelo . . . | 57 | 23 | 77 | 13 | 40 | -11 | 0 | .1 | 0 | 1.1 | 20 | 59 | 16 | 0 | 6 | 0 | 0 |
| San Antonio . . . | 65 | 35 | 77 | 25 | 50 | - 6 | T | .4 | T | 2.3 | 27 | 65 | 24 | 0 | 3 | 0 | 0 |
| Victoria . . . | 63 | 37 | 79 | 25 | 50 | - 9 | 0 | .5 | 0 | 11.7 | 112 | 77 | 37 | 0 | 3 | 0 | 0 |
| Waco . . . | 59 | 29 | 77 | 18 | 44 | - 9 | 0 | .5 | 0 | 4.8 | 59 | 69 | 23 | 0 | 5 | 0 | 0 |
| Wichita Falls . . . | 53 | 29 | 70 | 19 | 41 | - 6 | 0 | .3 | 0 | 3.4 | 48 | 67 | 27 | 0 | 5 | 0 | 0 |
| UTAH.Blanding . . . | 39 | 14 | 45 | 9 | 26 | - 7 | 0 | .2 | 0 | 2.1 | 66 | 71 | 42 | 0 | 7 | 0 | 0 |
| Salt Lake City . . . | 34 | 17 | 39 | 11 | 25 | - 9 | .1 | .3 | 1.1 | 2.4 | 73 | 89 | 55 | 0 | 7 | 1 | 0 |
| VT.Burlington . . . | 43 | 33 | 64 | 21 | 38 | - 9 | 1.5 | .9 | 1.5 | 10.5 | 124 | 68 | 56 | 0 | 4 | 5 | 1 |
| VA.Lynchburg . . . | 50 | 29 | 66 | 15 | 40 | - 2 | .8 | .1 | .8 | 15.9 | 187 | 80 | -- | 0 | 4 | 1 | 1 |
| Norfolk . . . | 57 | 38 | 74 | 26 | 47 | 1 | 1.0 | .3 | 1.0 | 20.7 | 207 | 75 | 43 | 0 | 3 | 1 | 1 |
| Richmond . . . | 55 | 35 | 73 | 21 | 45 | 2 | 1.4 | .6 | 1.4 | 18.6 | 190 | 87 | 42 | 0 | 3 | 1 | 1 |
| Roanoke . . . | 51 | 31 | 67 | 20 | 41 | 0 | .9 | .3 | .8 | 16.0 | 174 | 71 | 33 | 0 | 4 | 2 | 1 |
| WASH.Colville . . . | 29 | 16 | 37 | 8 | 23 | - 8 | 1.1 | .6 | .6 | 4.8 | 109 | -- | -- | 0 | 7 | 2 | 2 |
| Omak . . . | 26 | 17 | 34 | 10 | 22 | - 9 | .6 | .2 | .6 | 4.6 | 148 | -- | -- | 0 | 7 | 1 | 1 |
| Quillayute . . . | 48 | 34 | 53 | 25 | 41 | - 1 | 1.7 | 1.7 | 1.1 | 24.5 | 78 | 83 | 78 | 9 | 2 | 4 | 1 |
| Seattle-Tacoma . . . | 45 | 37 | 49 | 28 | 41 | - 1 | 2.0 | .6 | 1.3 | 8.2 | 67 | 69 | 62 | 0 | 2 | 4 | 1 |
| Spokane . . . | 30 | 15 | 38 | 8 | 23 | - 9 | .5 | .1 | .3 | 3.3 | 70 | 91 | 63 | 0 | 7 | 1 | 0 |
| Walla Walla . . . | 35 | 26 | 55 | 20 | 30 | - 9 | .6 | .2 | .3 | 5.5 | 128 | 93 | 76 | 0 | 7 | 4 | 0 |
| Yakima . . . | 31 | 16 | 37 | 8 | 24 | -11 | .4 | .1 | .3 | 2.7 | 123 | 94 | 72 | 0 | 7 | 2 | 0 |
| W.VA.Beckley . . . | 43 | 24 | 64 | 10 | 33 | - 3 | .8 | .1 | .7 | 10.9 | 125 | 80 | 41 | 0 | 6 | 4 | 1 |
| Charleston . . . | 48 | 27 | 67 | 18 | 38 | - 2 | .7 | 0 | .5 | 11.5 | 140 | 79 | 44 | 0 | 5 | 4 | 1 |
| Huntington . . . | 47 | 29 | 65 | 19 | 38 | - 2 | .3 | .4 | .1 | 11.2 | 144 | 68 | 42 | 0 | 5 | 6 | 0 |
| Parkersburg . . . | 47 | 30 | 62 | 21 | 39 | - 1 | .4 | .2 | .4 | 9.2 | 124 | 71 | 45 | 0 | 5 | 2 | 0 |
| WISC.Green Bay . . . | 32 | 20 | 41 | 10 | 26 | - 1 | 1.0 | .6 | 1.0 | 6.1 | 86 | 85 | 63 | 0 | 6 | 1 | 1 |
| La Crosse . . . | 32 | 22 | 42 | 9 | 27 | - 1 | .2 | .1 | .1 | 7.2 | 104 | 85 | 58 | 0 | 6 | 2 | 0 |
| Madison . . . | 33 | 21 | 47 | 10 | 27 | - 1 | .6 | .2 | .5 | 5.5 | 75 | 81 | 60 | 0 | 7 | 3 | 1 |
| Milwaukee . . . | 33 | 24 | 43 | 14 | 29 | - 1 | .4 | 0 | .4 | 4.4 | 64 | 78 | 68 | 0 | 6 | 3 | 0 |
| WYO.Casper . . . | 24 | 5 | 37 | -7 | 15 | -15 | T | .1 | T | 1.5 | 65 | 77 | 47 | 0 | 7 | 0 | 0 |
| Cheyenne . . . | 31 | 11 | 51 | 3 | 21 | -11 | .1 | 0 | .1 | 3.4 | 142 | 65 | 38 | 0 | 7 | 1 | 0 |
| Lander . . . | 25 | 1 | 32 | -5 | 13 | -13 | T | .1 | T | .9 | 28 | 81 | 46 | 0 | 7 | 0 | 0 |
| Sheridan . . . | 36 | 10 | 50 | 2 | 23 | - 6 | T | .2 | T | 3.3 | 106 | 88 | 42 | 0 | 7 | 0 | 0 |
| P.R.San Juan . . . | 85 | 74 | 87 | 72 | 80 | 2 | .8 | .4 | .3 | 26.0 | 151 | 91 | 63 | 0 | 0 | 4 | 0 |

Based on preliminary reports and 1941-70 normals

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 ESCS State offices in cooperation with the National Weather Service.

ALABAMA: Much colder beginning 28th, lows below freezing entire state; average 8° subnormal. Little rain reported; heaviest 0.24 in.

Fieldwork: 3.0 days suitable. Soil moisture mostly surplus across northern tier, adequate elsewhere. Cotton and soybean harvest main activity where conditions permitted. Soybeans 93% harvested, 98% 1978. Cotton harvest 4 weeks behind 1978 at 85%. Wheat 94% seeded, 80% 1978. Pecans 60% harvested. Condition: Wheat, livestock mostly good; pastures fair.

ARIZONA: Fair, dry weather, high pressure prevailed. Temperatures near normal deserts, few degrees below in mountains, 6° below in northeast plateau.

Cotton harvest 81% complete, 71% last year, average 73%. Small grain seedbed preparation continued, planting increasing. Normal field practices continued on new crop sugarbeets. New, renovated alfalfa continued good progress. Some alfalfa grazed by sheep. Recent freezing wiped out remaining warm weather vegetable crops. Lettuce harvest full swing west, central. Harvest mixed vegetables underway, seasonal progress. Morning harvest some areas delayed by icing. Harvest lemons, navels, sweets, early tangerines, grapefruit active. No significant freeze damage. New crop Valencias sizing well, some color showing. LP gas adequate. Diesel adequate to tight central, southeast. Gasoline mostly adequate except southeast where adequate to tight. Cold, dry winds rapidly depleting moisture, especially mid-to-lower ranges. Prospects winter, early spring browse diminishing. Water hauling, supplemental feeding required many areas. Some herds being thinned due to lack natural browse. Cattle, calves in fairly good condition. Most sheep on feed, valley alfalfa fields.

ARKANSAS: Temperatures about 10° below normal. Highest normal 50°, lowest 41°. Highest mean 46°, lowest 35°. Highest temperature 76°, lowest 11°. Most rainfall 1.11 in.

Wet fields delayed harvesting. Land preparation continued. Fieldwork: 4.3 days possible. Soil moisture adequate to surplus. Diesel 88% adequate, 10% tight; gasoline 88% adequate, 8% tight; LP gas 96% adequate. Soybean harvest 97% complete. Cotton harvest 92%. Some second pickings remaining. Some gins closed for season. Wheat and oats in good condition. Wheat plantings 97% seeded. Oats 93% seeded. Cattle fair to good condition. Pastures slightly below average.

CALIFORNIA: Strong westerly flow of moist air influenced north first part of week. Several storm systems spread varying amounts of rain as far south as lower San Joaquin Valley. Strong high pressure moved in over area resulting in dry weather and warmer temperatures remainder of week.

Cotton harvest 94% complete, 75% last year. Cotton second picking active. Small grain planting and fertilizing active. Emerging fields in good condition. Sugarbeet harvest continued. Newly seeded sugarbeets emerging and in good condition. Alfalfa fields being sheeped off. Alfalfa reseeded active. Rice stubble burning continued whenever allowed. Pruning active, fungicides applied. Fall avocado harvest started. Olive harvest ending. Grapefruit quality good. Lemons harvested, quality good. Navels harvested, progressing well, quality good. Valencias sizing well. Broccoli harvest moderate central coast.

Cantaloup harvest very light Imperial Valley. Carrot pulling increasing Kern, moderate Salinas. Cauliflower harvest moderate most producing areas, heavy diversion to processors. Celery harvest moderate central coast increasing south coast. Lettuce harvest nearly complete San Joaquin Valley, south coast; active Palo Verde Valley, just started Imperial Valley. Some onions lost Tule-lake-Butte Valley due cold weather. Market tomato harvest slowing south coast, should end mid-month. Range conditions good to excellent. Some southern areas need more moisture. Supplemental feeding continued; new grass not sufficient to support livestock. Sheep continue graze harvested fields San Joaquin Valley. Calving and lambing continued. Farm fuels generally sufficient. Some areas reporting tight supplies.

COLORADO: Combination of weather systems brought up to a foot of new snow in mountains and 4 in. parts of northeast foothills early week. Skies cleared by 28th for remainder of week. Generally, precipitation averaged about 0.10 in. Arkansas, Rio Grande and Platte Basins and about 0.30 in. mountains. Temperatures much below normal, with record lows 29th and 30th both east and west. Overall temperatures averaged 8 to 15° subnormal, 20° below normal in San Luis Valley.

FLORIDA: Early on 26th cold front swept downstate into Florida straits with some rain, dropping temperatures especially over Panhandle, on 27th cold front moved back northward over south Florida as warm front with no significant rain. Warm front became stationary over central on 28th with rain very general. New cold front also moved into Panhandle from northwest. Next day both fronts swept southward leaving rain south and dropping temperatures considerably over north, central portions with freeze warnings. By 30th high pressure and clear skies brought colder air with another freeze warning Panhandle, north and central. By 1st, readings still below freezing Panhandle, north and central but considerably warmer by 2d.

Soil moisture mostly adequate. Soybean harvest rapidly nearing completion. Cotton picking continued. Sugarcane harvest full swing. Small grains fair to good, seeding continued. Fuel supplies adequate. Pasture condition most southern areas continued good to excellent but elsewhere only fair. Cold temperatures particularly after midweek limited forage supplies in Panhandle, upper northern Peninsula. Winter annuals central areas made good growth early week. Cattle fair to good Panhandle, mostly good elsewhere. Citrus groves excellent condition following light rainfall, cooler temperatures north and central producing areas. Orange, grapefruit harvests for processing increasing seasonally. Weather warm, overcast in vegetable growing areas. Cold front moved through late week and skies cleared. Weekend frost wiped out most of remaining Sumter County crop. Daytime temperatures 70's to 80's with nighttime readings 30's to 60's. Winds moderate to strong, rainfall limited to few scattered showers that preceded front. Cold weather slowed fruit maturity, harvest some areas. Overall shipments up 30% from previous week. Shipments snap beans, carrots, escarole, lettuce, okra, peppers, squash up considerably. Celery, sweet corn, cucumbers, eggplant, parsley, tomatoes increased. Chinese cabbage, radishes held steady. Supplies cabbage decreased. Cauliflower harvest underway. Quality size good to very good. Yields improving,

generally good. Strawberry crop condition good most fields as growth improved. Planting continued slow Dade County. Few scattered blooms evident west central area.

GEORGIA: Temperatures averaged 7° above normal northeast to 3° above normal south. Warm first of week, much colder by weekend. Rain first half of week; 1.00 to 2.50 in. northwest and generally less than 0.50 in. south. Weekend sunny and dry statewide.

Soil moisture short to mostly adequate except surplus in some northern areas. Fieldwork: 4 days suitable. Corn fair to good; 98% harvested, 97% last year, 94% average. Cotton fair to good; 95% picked, 97% last year, 87% average. Soybeans fair to mostly good; 88% combined, 91% last year, 86% average. Pecans poor to fair; 76% harvested, 68% last year, 74% average. Wheat 87% planted, 71% last year. Rye 93% planted, 74% last year. Other small grains 90% planted, 74% last year, 87% average. Pastures fair to good. Cattle and hogs good. LP gas 94% adequate; diesel fuel 94% adequate, 6% tight; gasoline 92% adequate, 7% tight.

HAWAII: Weather variable; favorable some islands. Cool, wet certain sections slowed crop progress. Dry with some areas needing more moisture.

Most crop production down. Spraying frequent preventing insect, disease losses. Gusty winds affected crops, banana orchards, exposed areas. Vegetable supplies light. Banana supplies light; leaf stripping. Some trees toppled from gusty winds. Papaya supplies light; seasonally down. More sugar mills closing for annual repairs. Pineapple harvesting slow. Pastures generally good. Fuel supplies adequate.

IDAHO: Temperatures 6° below normal north, 15 to 16° below normal remainder. Extremes: 49 and -24°. Precipitation below normal north, near normal remainder.

Farmwork limited to chores and caring for livestock. Marketing slowed by cold weather. Livestock in fair to good condition. Feed supplies adequate.

ILLINOIS: Temperatures 6 to 9° below normal, minimums in 20's. Precipitation 0.10 to 0.30 in. west, 0.50 to 0.75 in. other areas; 1 to 3 in. snow north, trace most other areas.

Corn harvest virtually completed, except extreme north. Winter wheat mostly good condition. Fall plowing, fertilizer application continuing some areas.

INDIANA: Cold. Temperature ranged from 1 to 67° and averaged 6° below normal. Precipitation averaged from 0.30 in. extreme northwest and southeast to 0.90 in. southwest and central. First appreciable snow in central on 27th. Several inches accumulated near Lake Michigan.

Fieldwork: 1 day suitable. Topsoil moisture mostly surplus. Subsoil moisture adequate to surplus. Corn 95% harvested, 1978 97%, average 92%. Wheat 100% emerged. Wheat stands good. Spring cropland 45% plowed, 1978 50%, average 45%. Tobacco 60% stripped, 1978 40%.

IOWA: Cool, dry. Temperatures averaged 4 to 7° subnormal with little rain or snow.

Fieldwork: 5 days favorable. Corn harvested 94%, 1978 100%, normal 99%. Corn harvest loss subnormal. Soybean acreage harvested 100%, 1978 100%, normal 100%. Fall plowing 50%, 1978 49%, normal 48%. Topsoil moisture adequate to surplus. Subsoil moisture adequate. Livestock good condition. Livestock market movement normal, herd replacement slowed.

KANSAS: Little to no precipitation. Local accumulations generally less than 0.10 in. Temperatures averaged from 29° north central and northwest to 33° southeast, 4 to 7° below normal.

Wheat crop 90% emerged; only 80% south central. Wheat stands generally short, uneven in central and south central. Good condition most other areas. Soil blowing on 28th. Fall crop harvest being finished. Fieldwork: 4.0 days suitable. Soil moisture mostly adequate. Fuel supplies show little change.

KENTUCKY: Temperatures averaged 3° below normal. Precipitation averaged 0.50 in.

Heavy rain previous week made fields wet and soft. Late harvesting and fall plowing minimal. Corn and soybean harvest about 97% complete. Burley market strong. Poundage marketed to date well below same date a year ago. Soil moisture ample. Cold temperatures placing stress on exposed young livestock.

LOUISIANA: Temperatures 5 to 9° below normal. Extremes: 80 and 20°. No rain.

Fieldwork: 4.5 days suitable. Soil moisture adequate to surplus. Cotton 98% harvested, 100% last year, 94% average. Sugarcane 82% harvested, 79% last year, 71% average. Oats and wheat 99% planted, 99% last year and average. Pecans 79% harvested, 74% last year. Pastures fair. Cattle fair to good.

MARYLAND & DELAWARE: Temperatures averaged much above normal. Highs averaged around 60° to mid-60's except low 50's in mountains. Lows averaged to mid-40's except low 30's in mountains. Precipitation light to moderate, averaging about 1.00 in. Weekend mostly sunny, windy, cold with some snow flurries 2d.

MICHIGAN: Temperatures declined steadily reaching subteen levels. Precipitation, 1 to 7 in. snow, above average.

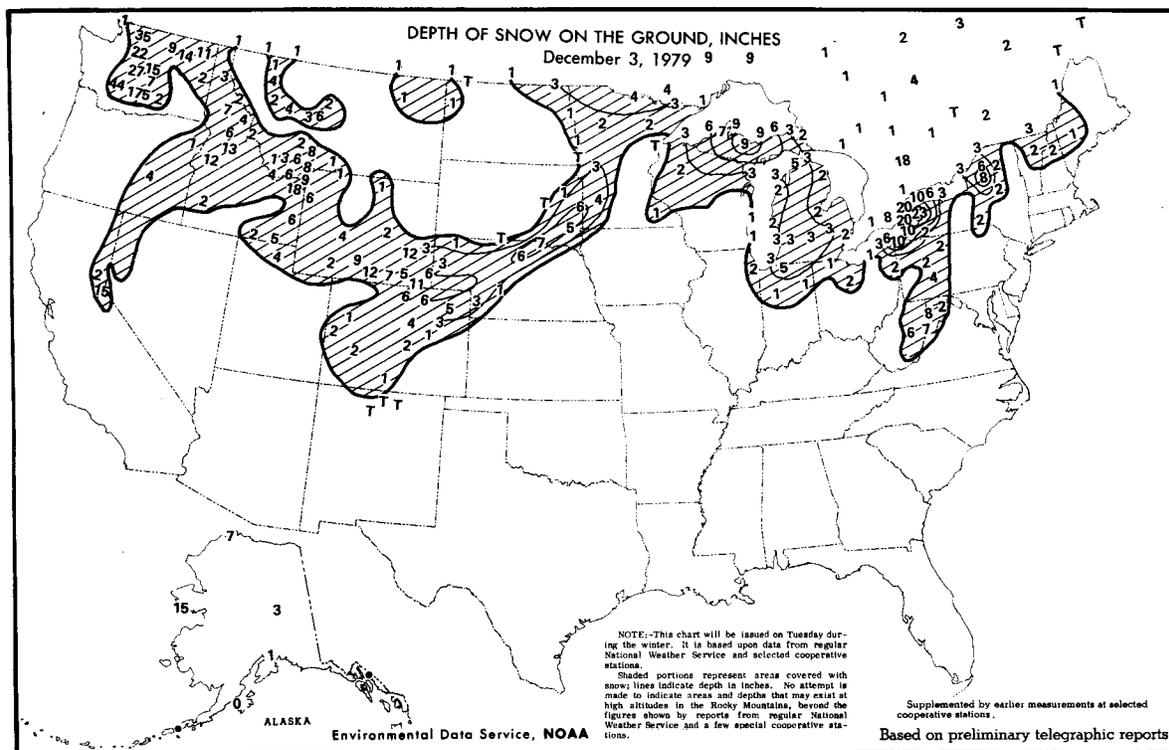
Fieldwork: 3 days suitable. Soil moisture adequate. Pasture feed supplies average. Corn 85% harvested, 100% last season, 93% normal. Fall plowing under 60% complete, 86% last fall, 70% normal.

MINNESOTA: Temperatures averaged near normal except south 4 to 5° below normal. Extremes: 43 and -9°. Precipitation averaged near normal to 0.10 in. below northwest half, up to 0.35 in. below extreme northeast, 0.15 in. below elsewhere. Precipitation totals light with 0.60 in. or less.

Fair progress harvesting remaining corn, sunflowers. Snowcovered fields in southwest, very high grain moisture in east central limited corn picking. Corn moisture averaging 26%. Most unharvested sunflowers are in extreme north. Harvested: Corn 84%, 1978 99%, normal 99%. Sunflowers 90%, 1978 99%, normal 99%.

MISSISSIPPI: Temperatures 15° below normal. Extremes 12 and 79°.

Soil moisture surplus to excessive north and central, south adequate. Fieldwork: 2.0 days suitable. Farmwork included scrapping cotton, harvesting beans, equipment maintenance, caring for livestock. Soybeans 95% harvested, 98% 1978, 90% average. Cotton 89% harvested, 100% 1978, 90% average. Pecans 78% harvested, 71% 1978, 76% average. Winter wheat 94% planted, 93% 1978; condition good to fair. Pasture condition fair to good. Livestock condition good to fair. Diesel and gasoline supplies adequate with scattered tight. LP gas adequate.



MISSOURI: Temperatures 1° below normal Bootheel, 4 to 7° below normal elsewhere. Precipitation averaged 1.25 in. East Ozarks and Bootheel, 0.10 in. or less elsewhere.

MONTANA: Cold, dry. Cold air trapped in valleys of west and southwest resulted in temperatures 15 to 20° below normal. Elsewhere temperatures averaged 5 to 8° below normal. Very little precipitation.

Winter wheat condition fair, minimum snowcover. Wind damage to winter wheat light. Soil moisture short. Stockwater supplies adequate. Cattle on supplemental feed 35%; sheep 55%. Cattle and sheep in good condition.

NEBRASKA: Precipitation trace to 0.20 in. extreme northern areas early week. Temperatures 5° below normal southeast with no snowcover; 10° below normal west and north with snowcover.

Corn harvest 95% complete, year ago 100%, normal 95%. Winter wheat condition fair to good. Diesel and gasoline 95% adequate; 5% tight. LP gas adequate. Fieldwork: 4.0 days suitable. Some minor livestock losses in western areas from recent storm.

NEVADA: Cold front early in period dumped as much as foot of snow north. Dry south central and extreme south. Gusty winds accompanied storm. Temperatures averaged 3 to 8° below normal. Extremes: 68° and -6° .

Cotton harvest continuing. Care and feeding livestock main ranch activities.

NEW ENGLAND: Above-normal temperatures through midweek, followed by seasonal readings end of week. Precipitation end of week from 0.25 in. to 0.50 in. along coast; 1.00 in. to 2.00 in. mountains.

NEW JERSEY: Temperatures 6 to 7° above normal, averaging 44° north, 48° south, 48° coastal. Extremes: 16 and 75° . Precipitation slightly above normal, averaging 1.40 in. north, 0.97 in. south, 0.73 in. coastal.

Field corn and soybean harvest in final stage. Fruit tree pruning continued. Farmers making machinery repairs, caring for livestock, marketing crops from storage.

NEW MEXICO: Dry. Warm 26th turning sharply cooler 27th and 28th. Gradual warming over weekend. Temperatures averaged 5 to 7° colder than normal.

Soil moisture supply short. Cotton advanced to 59% harvested. Pecan harvest underway. Limited harvesting of red chile. Most other crops harvest about done. Livestock good. Ranges fair, short on grasses. Winter wheat grazing increasing.

NEW YORK: Warm southerly flow of stable air at beginning of week caused excessive rainfall in most areas along with widespread thunderstorms. More seasonable cold air during the later part of week changed precipitation to snow with a few areas near Great Lakes receiving 2 to 3 feet of snow but most areas receiving 1 in. or less. Average temperatures were near to a little above normal and precipitation well above normal.

NORTH CAROLINA: Temperatures above normal. Precipitation moderate to heavy.

Fieldwork: 3.7 days suitable. Soil moisture adequate to surplus. Condition of wheat, oats, barley, rye, and pasture fair to mostly good with some small grains excellent. Harvested: Corn for grain 98%, 1978 100%, average 98%. Cotton 88%, 1978 90%, average 91%. Soybeans 77%, 1978 74%, average 80%. Sorghum grain 94%, 1978 100%, average

96%. Planted: Wheat 92%, 1978 90%. Barley 97%, 1978 96%. Oats 97%, 1978 95%. Rye 94%, 1978 93%.

NORTH DAKOTA: Storm on 27th and 28th had strong gusty winds with some blowing and drifting. New snow accumulations generally less than 1 in. Temperatures 1 to 3° below normal and averaged in teens. Extremes: -6 and 46°.

Sunflower and corn harvests nearing completion. Sunflower 99% combined. Corn 97%. Both 3 to 4 weeks behind last year. Remaining fields could be finished this week. Still additional drying to be done to prepare for marketing or permanent storage. Relatively mild late fall weather left only light snowcover. Presently, insufficient to protect winter wheat or rye. Current condition of both mostly fair. Some concern over low soil moisture supplies. Mild November weather let farmers catch up on winter preparations; also, kept livestock in good condition. Feed supplies appear adequate for winter. Some grazing continued, but supplemental feeding necessary due to poor pasture condition.

OHIO: Light snow and cold temperatures prevailed the second half of week. Snowcover 1 to 2 in. northern third. Much heavier snow fell in northeast. Temperatures ranged from high of 65° in south to low of 7° north averaging 3° below normal. Precipitation ranged from 0.70 in. to 0.10 in. central and southeast, 0.30 in. to 0.40 in. below normal.

Combining of soybeans and corn progressed in some areas.

OKLAHOMA: Dry, cold. Averages ranged from 8 to 11° below normal. Extremes: 11 and 76°.

Cold, open weather slowed growth late planted small grains; harvest late season crop good progress. By weekend peanut harvest virtually complete. Harvest sorghum and soybeans wind-up stage and cotton harvested excellent progress. Wheat up to stand 85%, 100% 1978, 95% average; wheat grazed 15%, 20% 1979, 10% average. Sorghum harvested 95%, 80% 1978, 90% average. Cotton harvested 55%, 30% 1978, 45% average. Fieldwork: 5.6 days suitable.

OREGON: Temperatures east of Cascades averaged 10 to 15° below normal; in west 1 to 4° below normal. Precipitation general first of week, but dry later half; amounts varied from 0.30 to 0.60 in. east, although over 1.00 in. noted south. In west amounts ranged 0.75 to 1.00 in. in valleys; 2.00 to 3.00 in. along coast. Heavy rains over the weekend added substantially to these totals.

Soil moisture adequate to surplus. Winter wheat mostly planted. Livestock condition mostly good. Hay supply short in some locations. Range and pasture conditions fair to good.

PENNSYLVANIA: Temperatures and precipitation returned to near normal conditions. Extremes: 71 and 5°. Snow squalls across western half second half of week up to 2 in. snow extreme northwest.

Fieldwork: 5 days suitable. Soil moisture surplus to adequate. Activities: Harvesting corn, soybeans; caring for livestock. Corn 93% harvested, last year 99%, normal 99%. Soybeans 90% harvested. Feed from pastures mostly average.

PUERTO RICO: Island average rainfall 3.31 in. or 2.16 in. above normal. Temperatures averaged about 78° on coasts and 71° interior. Extremes: 90 and 55°.

SOUTH CAROLINA: Above normal temperatures dropped to sharply below normal; freezes statewide 30th and 1st. Practically rainless.

Soil moisture adequate. Fieldwork: 4.5 days available. Cotton 96% harvested due to favorable conditions, but later than last year. Soybeans 74% harvested in good weather. Tobacco bed preparation continuing. Pecan condition poor to fair. Small grain planting good progress, stands good condition. Livestock condition good because pastures, winter grazing conditions good.

SOUTH DAKOTA: Average temperatures 2 to 14° sub-normal. Snowcover east. Extremes: 58 and -7°. Precipitation light.

Corn for grain 84% harvested, 1978 100%, average 100%. Sunflowers 98% harvested, 1978 100%. Grain sorghum 94% harvested, 1978 100%, average 100%.

TENNESSEE: Warm early week. Cold fronts remainder week. Cold weekend. Lows 15 to 25°; highs 40 to 50°. Precipitation 0.75 in. west, 0.25 in. east.

Soil moisture adequate. Corn virtually all harvested. Soybeans harvested 96%, 1978 99%, average 84%. Cotton harvested 77%, 1978 98%, average 83%. Wheat seeding nearing completion. Pastures fair. Livestock good. Fuel supplies adequate.

TEXAS: Cold front caused temperatures to average 11° below normal except Valley where 4° below average. Showers over Lower Rio Grande Valley up to 1.00 in. Dry elsewhere.

Lower Rio Grande Valley only area to escape sub-freezing temperatures. First hard freeze for much of Central, East, South Texas, however, absence of moisture limited prospects for small grains from Low Plains to South Texas. Cotton harvest over 50% complete on Plains as open weather aided harvest activities. Small grain prospects vary widely. Wheat providing grazing to stocker cattle throughout High Plains where November rains improved prospects. East Texas, Blackland oat and wheat fields providing good grazing. With exception of irrigated fields, prospects elsewhere remain bleak. Moisture needed on Low Plains, Cross-Timbers, Edwards Plateau, South Texas. Previously planted dryland fields awaiting moisture for germination; some emerged fields suffering moisture stress, poor root development. Insect damage minimal statewide. South Texas flax seedlings hampered by dry weather, few fields have emerged. Cotton open bolls 100%; harvested 69%, 43% 1978, 60% average. Sorghum harvested 98%, 95% 1978, 98% average. Wheat planted 98%, 100% 1978, 98% average; emerged 82%. Soybeans harvested 97%, 96% 1978, 96% average. Sugarbeets harvested 99%, 90% 1978, 90% average. Pecans harvested 54%, 64% 1978, 67% average. Barley planted 89%, 100% 1978. Flax planted 39%, 63% 1978, 64% average. Oats planted 93%, 99% 1978, 98% average. Growth from remaining warm season forage ended as hard freeze covered most of State except for extreme southern areas. With continuation of generally dry weather, winter ranges and pastures continued to deteriorate. Supplemental feeding hay, protein continued to increase. Although livestock remain generally good condition, some loss of condition occurred. Some feeding of sheep, goats necessary on Edwards Plateau.

In Lower Rio Grande Valley light frost received 30th burned tops peppers, tomatoes, eggplants. Harvest cabbage, carrots continued; good volume and quality. Onions made good growth although late. Some poor stands. Citrus harvest continued to increase moderately as sugar content continued rise with cool weather. Harvesting for gift packages very active. Coastal Bend cucumber harvest continued. Cool dry weather slowed growth, reduced yields. San Antonio-Winter Garden fall vegetable harvest active with good supply carrots,

cabbage. Light movement broccoli. Quality good. Laredo land prepared for planting onions. Harvest red chili peppers continued El Paso. High Plains carrot harvest near completion with light volume. Pecan harvest continued. High winds, freezing temperatures increased droppage. Quality varied.

UTAH: Scattered areas recurring snow forepart. Average accumulations generally light to moderate. Clearing and much colder latter part. Average temperatures 3 to 17° subnormal.

Routine chores, caring for livestock and poultry. Sorting, grading and marketing potatoes, onions and apples from storage continued.

VIRGINIA: Temperatures averaged slightly above normal. Unseasonably warm then much cooler. Extremes: 78 and 11°. Rainfall averaged near 1.00 in.

Wet soils most areas delayed field activity until midweek. Topsoil moisture adequate to surplus. Fieldwork: 3.9 days available. Corn 95% picked, 98% 1978, 95% average. Soybeans 85% combined, 90% 1978, 83% usual; Tidewater, south-east progress 83%, 87% 1978. Burley, fire-cured sales active. Sorghum grain 80% combined. Southwest cabbage cutting virtually done. Mild temperatures helped small grain germination, growth, condition good. Rye, wheat seeding continued. Pastures good to excellent. Feed supplies adequate to surplus. Livestock going into winter good to excellent condition. Some hay feeding quality low. Calving, lambing active. Farm fuel supplies adequate. Other tasks: Plowing for spring seedings; fertilizing, liming; winterizing fences, roads; fruit tree pruning; stripping sun-cured tobacco; soil sampling.

WASHINGTON: West: Temperatures averaged 5° below normal; except 3° below in coastal area. Precipitation averaged below normal, with heaviest rainfall of 2.30 in. coastal region.

Christmas tree harvest in full swing. Livestock and dairy are on winter programs. Carrot harvest near completion. Most activities slowed due to weather.

East: Temperatures averaged from 4 to 10° below normal, with precipitation also below normal. Snowcover all but stopped most farm activity. Orchard cleanup, farm machinery repair major activities.

WEST VIRGINIA: Temperature above normal beginning of period, below normal end of period. High 75°, low 11°. Precipitation above normal north and east, below normal elsewhere. Moderate snow accumulation higher elevations and mountains.

Farmwork: 3.5 days suitable. Soil moisture adequate to surplus. Feed supplies, hay, grain, adequate. Pasture condition poor to fair. Fuel supplies adequate.

WISCONSIN: Temperatures below normal. Week began with highs in 40's but cold Canadian air 27th dropped readings to 20's or near 30's remainder of week. Overnight lows ranged from around zero to the upper teens after the colder air arrived. Precipitation heaviest along eastern area as 2 to 4 in. snow fell 25th to 26th band south central to northeast. Snow accumulated 28th to 2d in snow belt around Lake Superior, with up to 30 in. some localities.

Corn harvest continuing, most other crops harvested. Corn for grain about 80% harvested, 1978 and normal 98%. Ground beginning to firm as cold temperatures increasing frost penetration. Frost depths averaged only 0.50 in. for late November survey due to mild weather in second half of month. Snow depths also averaged only 0.50 in. as November snowfall below normal.

WYOMING: Temperatures well below normal. Maximums primarily in 30's. Minimums below zero. Precipitation below normal.

Winter wheat fair to good condition. Death losses from blizzard apparently negligible. Supplemental feeding necessary southeast due to heavy snowcover. Hay supplies adequate. Drifting snow made transportation of feed to livestock difficult southeast. National Guard made some hay drops to livestock in isolated areas. Recent warm weather improved the situation.

**HARVEST PROGRESS
FOR WEEK ENDING DEC 2**

| | CORN | | |
|-----------|------|------|------|
| | 1979 | 1978 | AVG. |
| COLD | NA | NA | NA |
| GA | 98 | 97 | 94 |
| ILLI | 99 | NA | NA |
| IND. | 95 | 97 | 92 |
| IOWA | 94 | 100 | 99 |
| KANS | NA | NA | NA |
| KY | 97 | NA | NA |
| MICH | 85 | 100 | 93 |
| MINN | 84 | 99 | 99 |
| MO | NA | NA | NA |
| NEBR | 95 | 100 | 95 |
| N.C. | 98 | 100 | 98 |
| OHIO | NA | NA | NA |
| PA | 93 | 99 | 99 |
| S DAK | 84 | 100 | 100 |
| VA | 95 | 98 | 95 |
| WIS | 80 | 98 | 98 |
| 17 STATES | 1/ | 1/ | 1/ |

THESE 17 STATES PRODUCED 93% OF THE 1979 CORN CROP.

| | COTTON | | |
|-----------|--------|------|------|
| | 1979 | 1978 | AVG. |
| ALA | 85 | 100 | 88 |
| ARIZ | 81 | 71 | 73 |
| ARK. | 92 | NA | NA |
| CALIF | 94 | 75 | NA |
| GA | 95 | 97 | 87 |
| LA | 98 | 100 | 94 |
| MISS | 89 | 100 | 90 |
| MO | NA | NA | NA |
| N MEX | 59 | NA | NA |
| N.C. | 88 | 90 | 91 |
| OKLA | 55 | 30 | 45 |
| S.C. | 96 | 100 | NA |
| TENN | 77 | 98 | 83 |
| TEX. | 69 | 43 | 60 |
| 14 STATES | 77 | 59 | 70 |

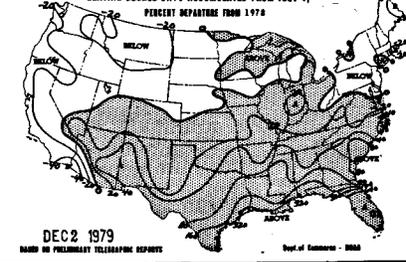
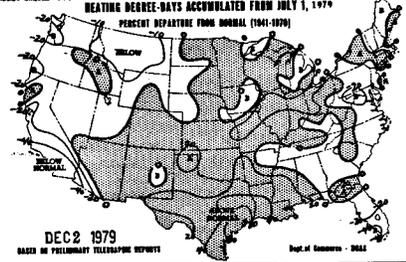
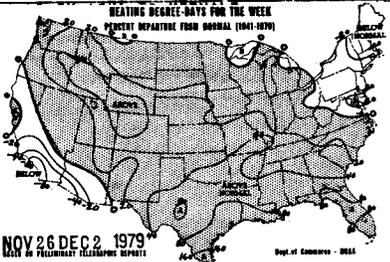
THESE 14 STATES PRODUCED 99% OF THE 1978 COTTON CROP.

NA NOT AVAILABLE
1/ NOT ENOUGH STATE DATA AVAILABLE

HEATING DEGREE DAYS (BASE 65°) FOR WEEK ENDING DEC. 2, 1979.

BASED ON 1941-70 NORMALS. + ACCUMULATION FROM JULY 1, 1979.

Table with columns for STATES AND STATIONS, WEEKLY DEPARTURE*, SEASONAL ACCUMULATION*, and DEPARTURE FROM 1978-79. Rows list various states and cities such as ALA. BIRMINGHAM, ARIZ. FLAGSTAFF, CALIF. BAKERSFIELD, etc.



NOV 26 DEC 2 1979

DEC 2 1979

DEC 2 1979

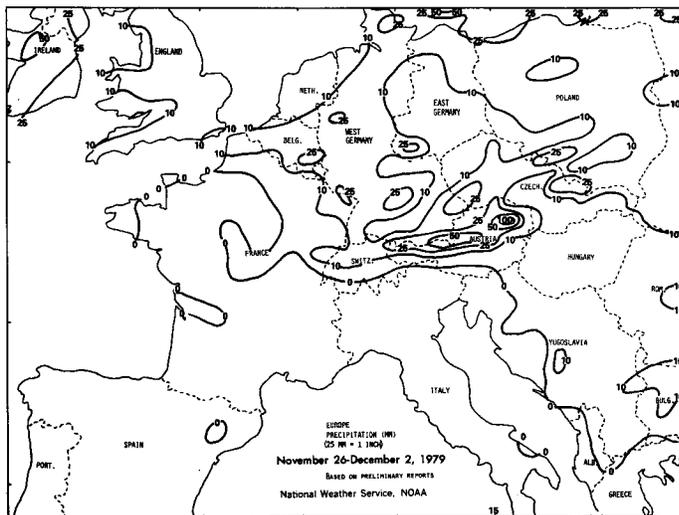
International Weather and Crop Summary

November 26 - December 2

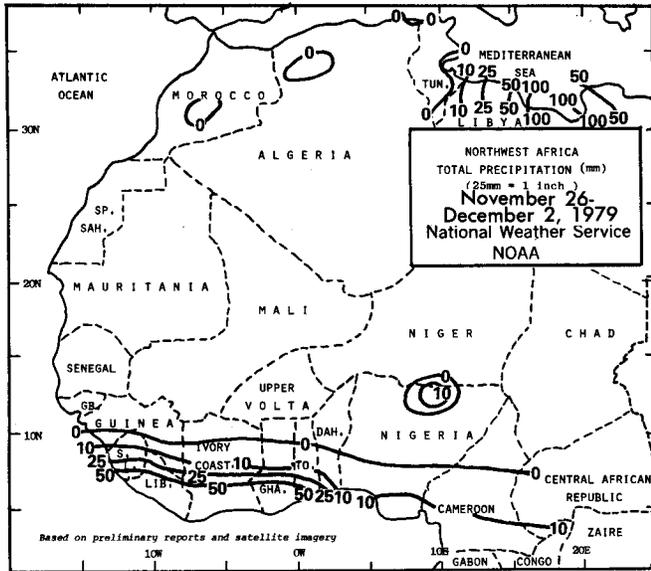
HIGHLIGHTS:

- USSR. Winter grains dormant in nearly all areas...above-normal rain; near-normal temperatures.
- EUROPE. Sowing winter grains in the south*...adequate soil moisture.
- CHINA. Winter wheat sown...soils dry; irrigation required.
- INDIA. Sowing winter wheat...beneficial rains in southeastern half of belt. Harvesting cotton in the south*...heavy rains in some areas.
- AUSTRALIA. Harvesting winter grain...improved harvest weather.
- AFRICA. Northern: sowing winter grains*...adequate soil moisture. Southern: planting in the Maize Triangle...good soil moisture.
- ARGENTINA. Harvesting wheat in Santa Fe*...weather near normal.
- BRAZIL. Planting soybean in Rio Grande do Sul; nearly complete in Parana...good soil moisture.

USSR. Precipitation increased to slightly above normal again in the winter grain belt with some much heavier totals in the north central Ukraine and across southern portions of the belt. The only substantial area of below-normal precipitation was the Volga Valley. Temperatures in all but extreme southern areas remained too low for wheat growth during most of the week, with only a slight warming trend in the western half of the Ukraine at the week's end. No immediate threat of winter-kill exists for the belt.

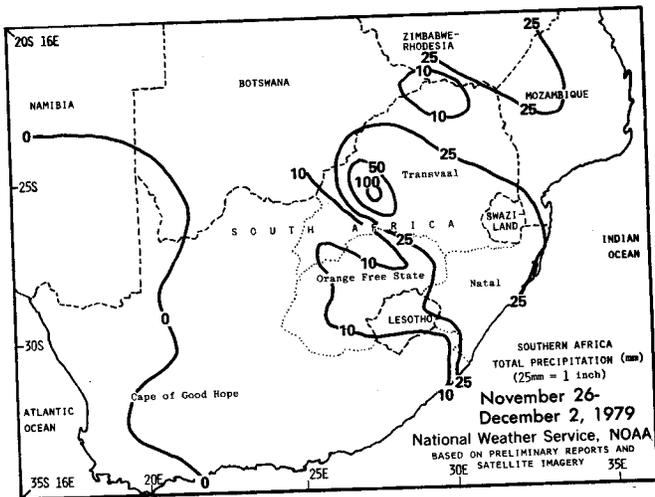
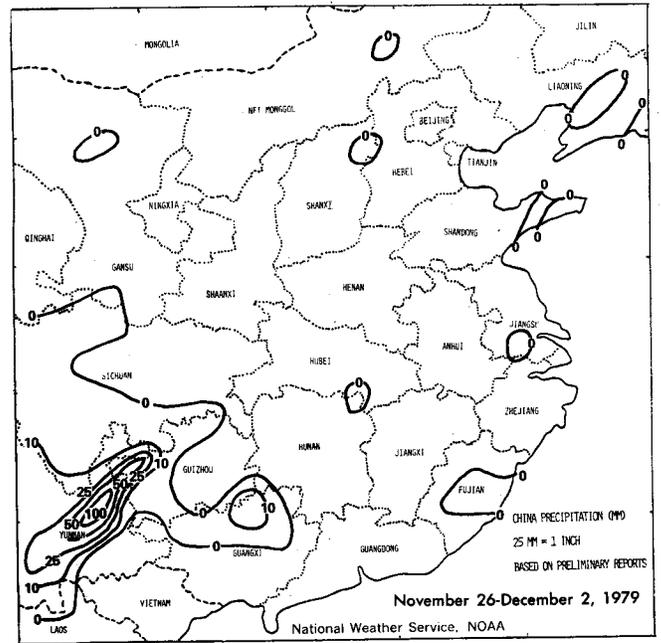


EUROPE. Most of southern Europe received very little precipitation--a relief for some of the southeastern countries. Soil moisture in the southwest should still remain adequate for winter grain sowing. Above-normal precipitation fell over much of northern Europe. The moisture was beneficial to the crop, although temperatures remained too low for much winter grain growth.

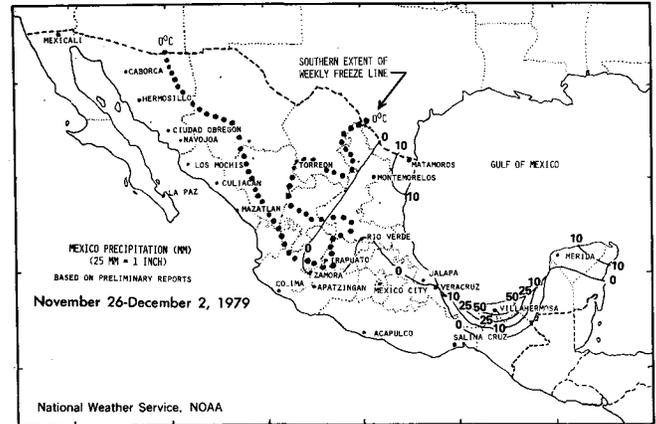
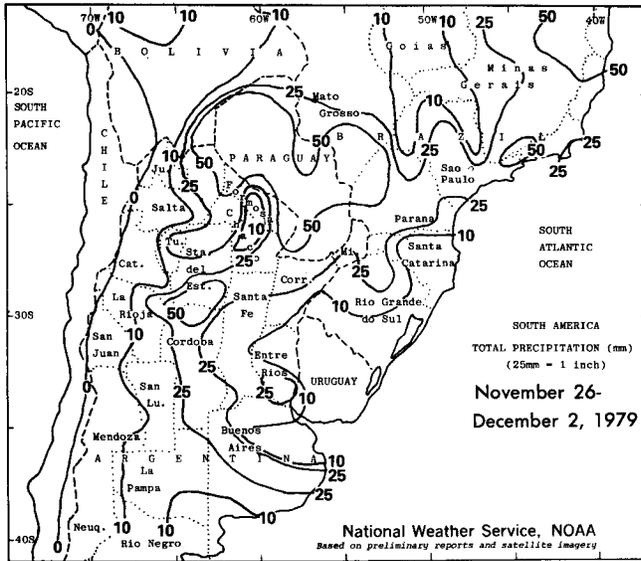


NORTHERN AFRICA. Virtually no rain fell in the winter grain-producing areas of Morocco, Algeria, and Tunisia. Sowing should be in progress, with good soil moisture in the eastern half and adequate conditions to the west of Alger.

CHINA. Dry weather prevailed over nearly all agricultural areas. This permitted continuation of late harvest activities in the south, but reports of dry conditions for winter wheat have been heard from all portions of the wheat belt. Temperatures remained near normal, so moisture demand was low, but unirrigated fields in the western, hilly portion of the belt have probably lagged in crop development.

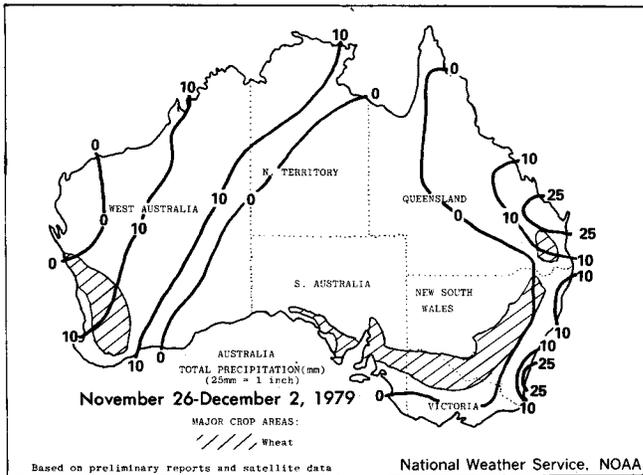
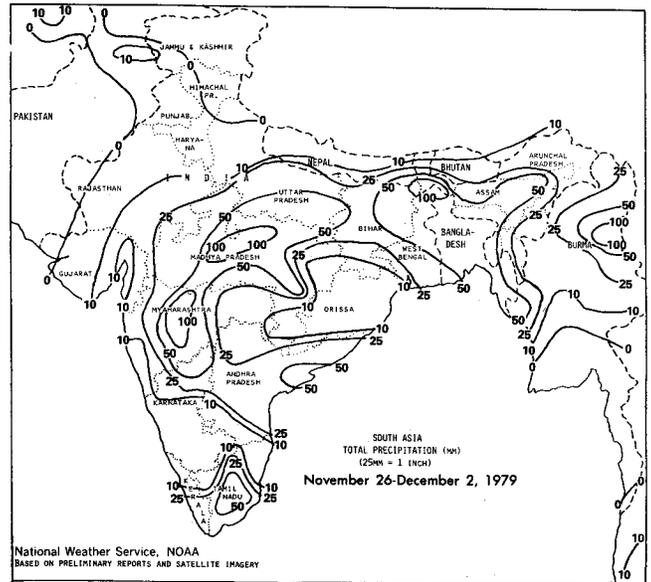


SOUTH AFRICA. Rainfall became near normal over the northeastern half of the Maize Triangle as planting continued. The precipitation pattern became somewhat variable to the southwest, with some central and far southwest areas receiving very little moisture. Planting conditions remained favorable due to previous weeks' rains.



MEXICO: Dry and mild conditions, dominating most of the country, benefited agriculture where soil moisture remained adequate. Drought continued in the north central rangelands. Light rains extended eastward from the central-interior strawberry region to across the citrus area. Locally heavy showers fell in the irrigated coastal strip of Villahermosa. Cool nighttime temperatures in the northeast slowed vegetable development but helped color citrus fruit. Freezing temperatures extended into the central interior. Southern and west coast vegetable areas were sunny and mild. Culiacan's afternoon maxima averaged 28°C with a relative humidity of 30 percent, while overnight minima averaged 10°C with an 80-percent humidity.

INDIA. A storm system moved into Andhra Pradesh from the east, curved northward through Myaharashtra, and then continued eastward through Madhya Pradesh, southwestern Uttar Pradesh, and points east. Some heavy totals in Myaharashtra probably hindered harvesting of cotton, but the southeastern half of the winter grain belt benefited immensely from the rainfall. Prospects there are much improved. Light rain fell north into Punjab, maintaining marginal conditions for wheat development in unirrigated fields, but northwestern Uttar Pradesh received very little moisture from the storm. In the extreme southern peninsula, rainfall tapered off to near normal after excessive rains persisted for most of November.



SOUTH AMERICA. Adequate rainfall in all Brazil soybean areas maintained good growing conditions. Planting was nearly complete in Parana and stood at two-thirds finished in Rio Grande do Sul, where nearly all of a reduced wheat crop had been harvested. Continuing near-normal moisture in the Argentine states of Santa Fe and Cordoba favored maize crop growth while allowing the wheat harvest to proceed. Lighter, below-normal rainfall in southern Buenos Aires probably was not needed by the maturing wheat crop.

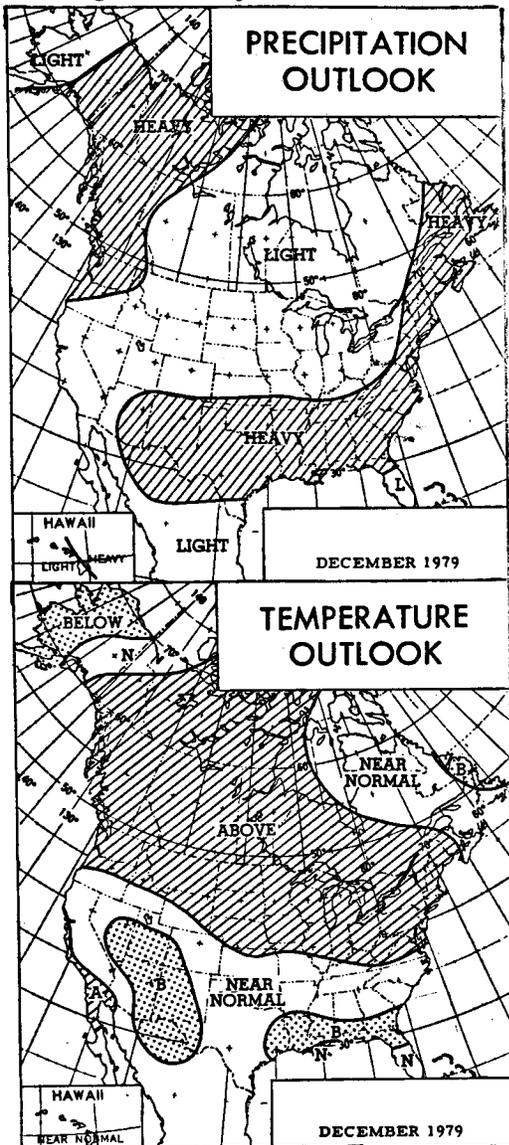
AUSTRALIA. Favorable harvest weather set in at last over the states of New South Wales, South Australia, and Victoria. Harvest activity was probably behind in many areas, and this improvement could be a shift to more-normal weather. Rainfall in Queensland wheat areas decreased to near normal, with harvest in the latter stages, while light rains in southern portions of the wheat area in West Australia ranged above normal.



FIRST CLASS MAIL

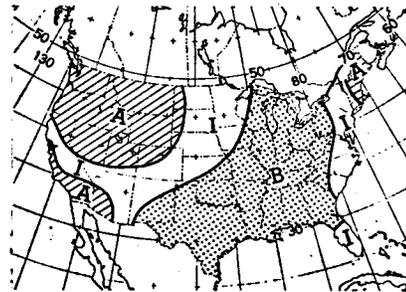
COM 210

Average Monthly Weather Outlook



OUTLOOK FOR WINTER AVERAGE TEMPERATURES

December 1979 through February 1980



-  **A** Above Normal, 65% chance of occurrence
-  **B** Below Normal, 65% chance of occurrence
-  **I** Indeterminate, 50% chance of Above Normal
50% chance of Below Normal

The two categories Above and Below are to be compared to the long-term average or "normal" temperatures of the year 1941-70. Each category has a natural climatic frequency or probability of 50%. Each carries a 65% probability of occurring where forecast (shaded area), based on the verification scores of twenty-one years of experimental seasonal predictions.

NOAA, National Weather Service
 Climate Analysis Center

November 28, 1979

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