

# WEEKLY WEATHER AND CROP BULLETIN

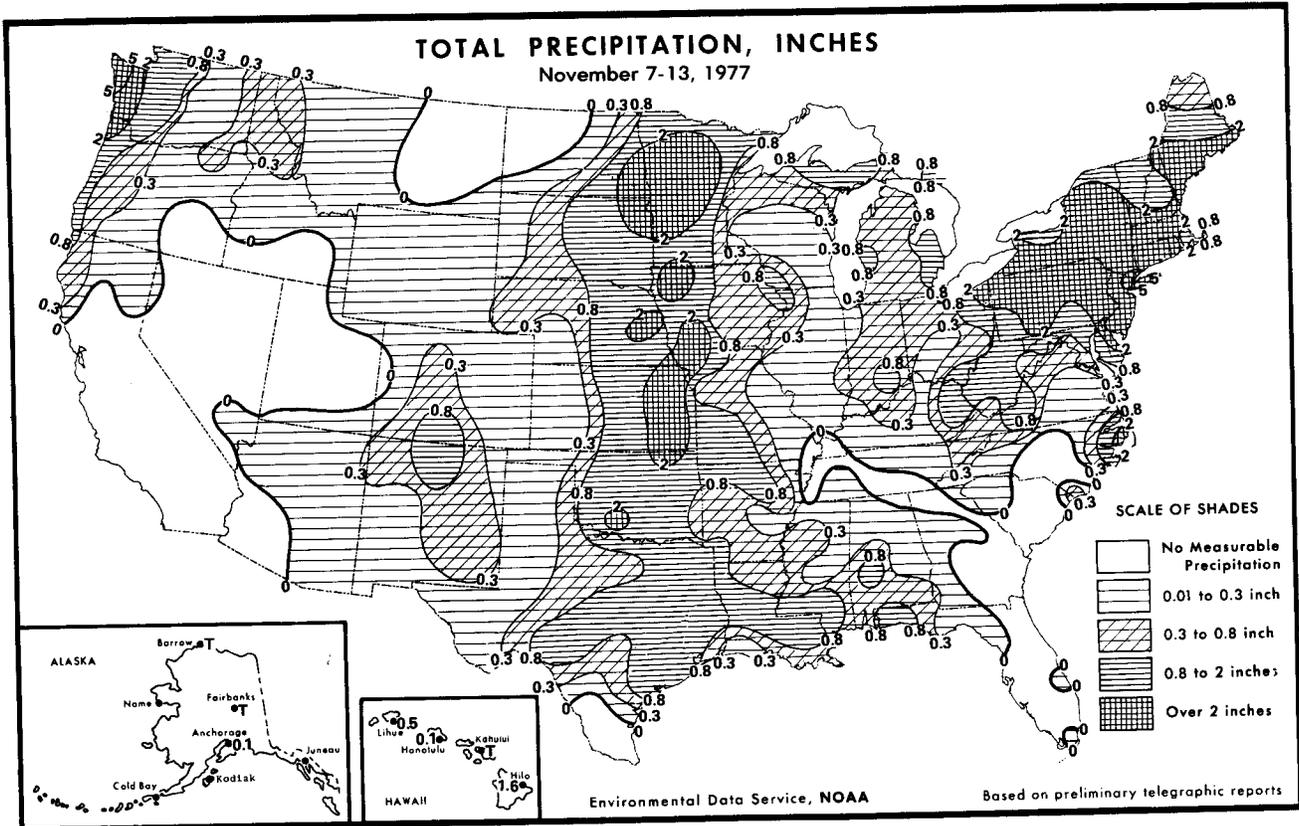
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## National Weather Summary

November 7 - 13

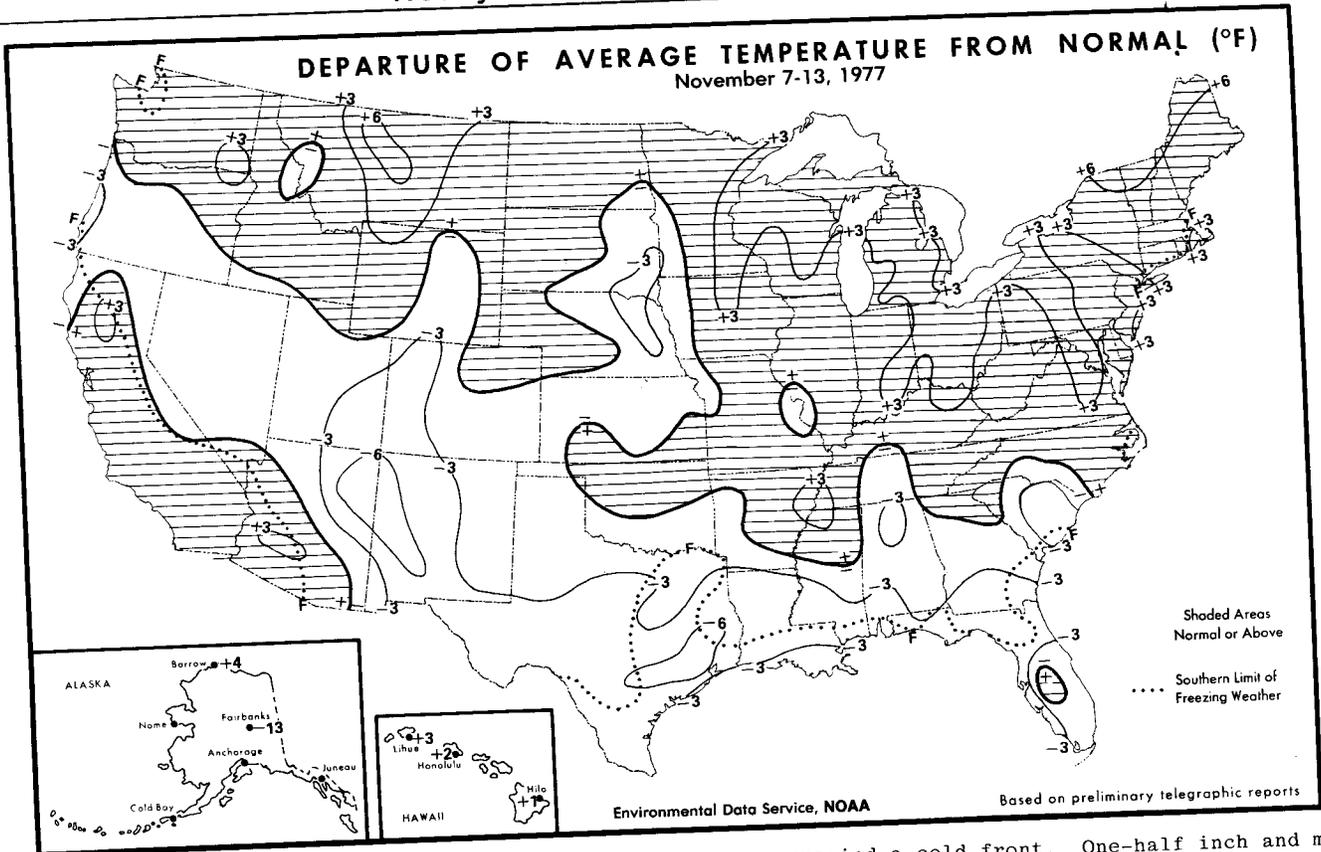
**HIGHLIGHTS:** A moisture-laden storm moved up the East Coast from Maryland through New England at the beginning of the week producing locally heavy rain. Heavy snow fell along the northern portion of a leading edge of cold air and clipped the Plains. The system moved to the Great Lakes and lingered to the end of the week.

At midweek the coldest air of the season rushed in from central Canada and covered most of the Nation from the Plains eastward to the Atlantic Coast.

Monday morning showers dampened the Midwest eastward to the Atlantic Coast, the western Florida coast, and the Rocky Mountain and Plateau Regions with snow in the higher elevations. Heavy amounts of rain fell in eastern Pennsylvania and New Jersey where Atlantic City scored its highest measurement

ever for this day, 3.90 in. At nightfall, rain and snow were falling in the same areas as morning; the southern Plains, however, experienced some heavy thunderstorms.

Two major storms blitzed the country on Tuesday. One produced snow in the lower half of the Rockies and moved into the northern and west central Plains. By midday 4 and 5-inch snowfalls hit points in Colorado; there was a 17-inch cover at some New Mexico stations and 2 feet in the higher elevations. Connected with the same storm system were showers and thunderstorms that clipped eastern Texas and Louisiana. Seven tornadoes touched down in that area. Meantime a northeastern storm center sent torrential rains along the eastern seaboard. Newark, N.J., was soaked by 5.33 in., New York City had 4.45 in., and Philadelphia recorded 3.99 in. for its heaviest November rainfall in one day.



The northeastern rain moved further up the coast drenching northern New England. The low pressure center over the Plains intensified carrying strong winds and heavy snow to Nebraska, Iowa, the Dakotas, and Minnesota. The same storm pulled Arctic air from Canada southward causing temperatures to plummet; Woodland Park, Colo., recorded  $-10^{\circ}$ . Snow and freezing rain spread from western Washington through Idaho to Montana. Spokane trudged through 5 inches of the white stuff. As day's end approached, a strong cold front associated with the Midwest storm moved eastward through the Ohio Valley and as far south as the central Gulf Coast.

Rain in the Northeast was particularly hard on New Jersey where 9.60 in. accumulated in Lodi triggering the worst flooding in the town's history.

Thursday dawned with snow and gusty winds in the upper sections of the Mississippi Valley and Great Lakes. This deep low pressure system left heavy snow in its wake; Watertown, S. Dak., accumulated a foot. High pressure building behind the storm brought clear skies and cold temperatures to the Plains. Record low readings included  $28^{\circ}$  at San Antonio and Houston's  $30^{\circ}$ . Meantime showers were observed along the coastal areas of Florida, North Carolina, and Virginia.

Cold air pushed across the East on Friday causing the mercury to dip below freezing as far south as Florida. While readings plunged to the lower 30's in the Sunshine State, Concord, N.H., marked  $69^{\circ}$  before the cold front edged in.

The northeastward-moving snowstorm whitened Buffalo and Cleveland with 3 inches by noon. Another area of precipitation in the Northwest

accompanied a cold front. One-half inch and more of rain dampened parts of Washington, Oregon, and northern California. When the system moved to the Intermountain Region snow salted the higher elevations.

Residents of northeastern Ohio and northwestern Pennsylvania awoke to a white Saturday. Several inches of snow had fallen through the night including a foot in Edinboro, Pa., and 8 inches at Meadville. As afternoon approached, heavy snows gathered in New York State; Jamestown and Sherman measured 9 inches. Snow showers extended southward along the Appalachians and as far as Maryland and Virginia.

Strong high pressure meant clear skies and cold temperatures in the Mississippi Valley southeastward; Atlanta shivered at  $32^{\circ}$ .

The Northwest had more rain. Parts of Washington counted more than one inch while the eastern portion of the State was covered by a half-foot of new snow in the mountain areas.

Snow continued over the lower Great Lakes and New England at sunrise Sunday. Two to 10 inches more fell on northeastern Ohio. The only other area of precipitation was scattered rain and snow showers in the northwestern quadrant of the country. Late evening light snow began falling in parts of Wisconsin, Illinois, Indiana, and Michigan. Chicago had about an inch by midnight.

Temperatures were very cold in the Southeast. Raleigh, N.C., tied its record of  $23^{\circ}$  while Columbia, S.C., set a new one-- $22^{\circ}$  which was well below the former record of  $28^{\circ}$ . And in Georgia, two readings opened the record book--Augusta's  $26^{\circ}$  and  $27^{\circ}$  at Macon.

## National Agricultural Summary

November 7-13

**HIGHLIGHTS:** The winter's first major storm sliced through the western north central States producing high winds and deep snow; very few crops were harvested. In some areas snow must melt before fields can be harvested. Frost extended into Texas where its beneficial effect defoliated cotton, but some tender vegetable crops were lost. Although most of the South and parts of the Corn Belt did not have much rain, soil moisture rated adequate to surplus in the eastern half of the Nation except parts of Florida and Louisiana. The West remained dry except in the Pacific Northwest. Corn harvest advanced only 4 points during the week to reach 81% falling between 1976's 92% and the 77% average. Soybean combining also moved ahead 4 points to 77% lagging both last year's 87% and the 81% average. Cotton harvest slowed, standing at 74%, which was significantly ahead of 1976's 49% and the 46% average. Sorghum harvest reached 90%, almost midway between 1976's 94% and the 85% average.

**SMALL GRAINS:** Winter wheat seeding was almost complete in the Great Plains; only Texas had some acreage to plant. Across the South planting ranged from 72 to 87%. Among the north central States seeding was 90 to 95% complete. Missouri lagged far behind last year's 91% reaching only 57%. Pacific Northwest seeding was over 90% complete. Stands rated good, generally in better condition than last year.

In Kansas mosaic and leaf rust were prevalent in the West. Cattle were pasturing 5% of the acreage, the same as last year but only half of normal. Oklahoma stands rated fair to good with 92% emerged; 10% of the acreage supplied grazing. Texas producers planted 90%, one point more than last year and slightly behind the 93% average. Scattered Texas rains benefited many areas, but dryland stands on the Plains made only limited growth and need more moisture. Montana's crop rated good and had very little wind damage. Pacific Northwest surface moisture was adequate but subsoils need an additional charge.

**CORN:** Rain, snow and soggy soils delayed the U. S. corn harvest especially in the western Corn Belt. Some farmers expect to finish when soils freeze firm to support equipment; others with less optimism and more snow may finish in the spring. High winds accompanying the storm damaged stalks and caused some ear drop. Farmers in the eastern north central States advanced to 79% (a 9 point advance for the week) lagging 1976's 86% but ahead of the 76% average. Western north central States producers managed to reach 80% only a slight increase over the previous week. This compares with 97% last year and the 76% average. The southern corn harvest was almost complete.

**SOYBEANS:** The U. S. soybean harvest reached 77% short of last year's 87% and the 81% average. The storm stopped combining and kept the pods and beans wet. Mold became evident in some areas. Pods shattered; growers expect increased harvest losses. Some southern soybeans were also drying slowly. In the eastern north central States harvest reached 92%, a 5 point increase for the week; last year growers were finished and on average reached 94%. In the western north central States progress advanced only 3 points to reach 82% lagging 1976's 97% and the 90% average.

In the south central States wet soils slowed harvesting and progress fell behind last year's 79%; now at 68% progress equals the average.

**COTTON:** Picking in the eleven major southern States reached 74%, another slow week with an advance of only 7 points. Earlier in the season picking was twice the 1976 rate and the average. A year ago progress hit 49% and the average was 46%. Wet conditions delayed picking in some areas and caused some quality deterioration. Frost caught some immature South Carolina bolls. Arkansas rain and wet fields delayed picking; producers harvested the last of the crop and disked stalks. Frost helped defoliate the remaining fields on the Texas High Plains. Trailers congested gin yards in some areas of the plains. The New Mexico cotton harvest reached 60%. Arizona growers delivered cotton to gins so quickly they ran late. California's first picking reached 85%.

**OTHER CROPS:** Grain sorghum harvest advanced to 90%, less than the 94% in 1976 but more than the 85% average. The Texas harvest was almost complete at 99%; the recent killing frost should help dry the few remaining acres. Rains and snow kept a damper on the harvest further north in Kansas, Nebraska, Missouri, and South Dakota.

Sugarcane producers harvested in Florida, Louisiana, and Texas. Cutting was just underway in Texas and reached 36% in Louisiana.

The peanut harvest was almost complete, but rains plagued the digging of the few remaining acres.

Growers stripped tobacco in preparation for market openings. Kentucky growers stripped 51% and Tennessee 73%; both States ahead of 1976 and the average.

**VEGETABLES:** Frost nipped tender vegetable crops in northern areas leaving only the harder crops such as cabbage for harvest. In Florida shipments increased 38% from the previous week. Leading the increased volume were cucumbers, greens, peppers, and tomatoes. Vegetable crops rated good to excellent; low temperatures slowed plant growth but improved fruit set. Texas growers harvested tomatoes, peppers, cucumbers, carrots, and cabbage. Frost damaged tomatoes, bell peppers, and other tender crops in north Texas. California producers harvested a wide variety of vegetables; most active were broccoli, cauliflower, celery, and carrots.

**FRUITS AND NUTS:** Fruit growers performed routine maintenance chores in deciduous orchards. Pecan harvest ranged from 42% in Georgia to 57% in Louisiana and 59% in Mississippi. California growers harvested almonds and walnuts. Florida citrus groves rated excellent with irrigation in the drier areas. Fruit reached good size and natural color. Texas citrus harvest volume increased. Arizona and California growers picked lemons, oranges, and grapefruit.

**PASTURES AND LIVESTOCK:** Adequate to surplus soil moisture in eastern areas kept pastures in fair to mostly good condition; only Florida's grasslands rated poor among the eastern States. Western rangelands rated poor to fair. Subnormal temperatures in Texas slowed growth; small grains furnished only limited grazing. Rains improved some northern California rangelands, but newly sprouted seeds need additional moisture. California's irrigated pastures rated poor because of overgrazing and low temperatures.

Temperature and Precipitation Data for the Week Ending Midnight, 1.s.t., Nov. 13, 1977

Table with columns for States and Stations, Temperature °F (Average, Departure), and Precipitation Inches (Total, Departure). Rows list various locations such as ALA. Birmingham, ALASKA Anchorage, ARIZ. Flagstaff, etc., with their respective temperature and precipitation data for the week ending Nov 13, 1977.

Based on 1941-70 normals

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Standard copy for the Bulletin is prepared by Donald J. Haddock, Lyle Denny, and O. W. Byrd, Environmental Data Service, National Oceanic &

Atmospheric Administration; Harry DeLong and Jim Carlin, Statistical Reporting Service, U.S. Department of Agriculture.

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## 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 offices in cooperation with the National Weather Service.

**ALABAMA:** Cool, dry weather moved across state, ending rains dropping temperatures. Temperatures averaged 3° below normal. Rainfall light and widespread.

Fieldwork: 2.7 days suitable. Soil moisture adequate to surplus. Harvest of row crops limited by wet fields. Cotton 75% harvested, 51% 1976, 64% average. Corn 92% harvested, 88% 1976, 85% average. Soybeans, 55% harvested, 72% 1976, 71% average. Small grains 80% sown, 80% 1976, 83% average. Pecans fair to good 56% harvested. Pastures fair to good.

**ARIZONA:** Winter storm ended 7th, sunny skies remainder of week. Precipitation ranged over 0.50 in. White Mountains, trace western areas. Temperatures above normal central, southwest; 6° below north, southeast.

Cotton harvest full volume, gins running well behind. Fall sugarbeets harvest virtually complete, spring beets good growth. Very limited alfalfa cutting, new and renovated fields good progress. Wheat, barley preparations well advanced, earlier planted fields good stands. Lettuce harvest active central, west. Harvest mixed vegetables underway soon. Cantaloup harvest active. Lemons, Navel and sweet oranges, grapefruit being picked; grapefruit slow. Desert, mid-elevation ranges fair condition. Stock water, soil moisture, still short. Cattle, sheep movements virtually complete. Lambing full swing.

**ARKANSAS:** Highest temperature 80°, lowest 22°. Readings 5° subnormal to 1° above normal.

Wet fields delayed harvesting early week. Soil moisture surplus to adequate. Fieldwork: 3 days suitable. Soybean harvest slowed; harvest 61% complete, 74% 1976, average 66%. Cotton harvest winding down, generally limited to scrapping operations; harvest 90% complete, 79% last year, average 76%. Stalk destruction continued. Rice harvest virtually complete except for few scattered fields and levees. Disking stubble continued. Wheat planting 72% complete, 80% year ago, average 78%. Oat seeding delayed by wet field conditions. Pastures providing average amounts feed.

**CALIFORNIA:** First major rainy season precipitation. Coast ranges, northern mountains, and Sierra Nevada reported major share, while Central Valley had widely varying amounts. Snow, to around one foot, was measured at higher Sierra elevations. Temperatures clustered near normal with no discernable trend. Coldest temperatures sub-teens northeast interior, and warmest 80's deserts and south coast.

Planting small grains; some areas too dry. Alfalfa some 7th cuttings. Dry beans, milo, grain sorghum, and field corn harvests near completion. Sugarbeets in all stages. Cotton first pick 85% complete. Post-harvest irrigations, pruning, pulling active in deciduous fruits. Still harvesting apples, avocados, dates. Figs being harvested with excellent quality. Olives moving to processors. Desert grapefruit harvest light, size near normal. Navel oranges showing more color; light harvest of early fruit. Later varieties maturing and beginning to show color. Almond and walnut harvesting continues. Brussels sprouts, cantaloups and market tomatoes slow. Broccoli, cauliflower, celery, and carrot harvests active. Lettuce reduced volume. Potato and onion harvest complete. Sweetpotatoes continue strong. Rains

some relief rangeland, more rain needed for newly sprouted seed. Irrigated pasture conditions poor due to over-stocking, cooler weather. Supplemental feeding necessary. Sheep, cattle moved onto winter range. Calving continues; lambing underway.

**COLORADO:** Winter storm moved eastward, through south 7th producing 6 to 10 in. snow. Storm continued north eastward 8th with 1 to 3 in. snow. Temperatures and northerly winds gusting 45 to 60 mph produced local blizzard conditions. Fair weather prevailed remainder of week. Precipitation 0.50 in. in mountains and southwest; 0.10 to 0.25 in. elsewhere. Temperatures 1 to 4° above normal east; 1 to 3° below normal mountains and west. Below zero 9th in mountains.

**FLORIDA:** Mostly fair to partly cloudy and mild. Rainfall generally 0.25 in. or less. Temperatures near normal 10th, but remainder of week 10 to 15° below normal. Scattered frost north, 12th, 13th; patchy frost as far south as central.

Soil moisture adequate Panhandle, short most other areas. Soybean harvest full swing; peanut harvest about complete; pecan harvest very active. Small grains good condition in west, need more moisture other areas. Seeding grains continues. Sugarcane good condition, harvest active. Pastures poor to fair. Some pastures overgrazed. Ryegrass planting continues. Cattle condition mostly good. Citrus grove condition continues excellent; few scattered showers, some irrigation drier areas. Drop not excessive; sizes, natural fruit color good. Vegetable crops good to excellent condition. Harvest very active most crops. Overall shipments up 38% from previous week. Crops showing increased movement included cucumbers, escarole-endeive, lettuce, peppers, tomatoes. Steady volume snap beans, carrots, sweet corn, eggplant, okra, radishes, squash. Chinese cabbage, celery harvest just getting underway. Cooler temperatures slowed plant growth but improved fruit set. Plantings continue active some crops. Irrigation, spray programs active.

**GEORGIA:** Temperatures above normal ranging from 10° above in northeast to 4° above along Florida border. Extremes: 81 and 27°. Rainfall 2.00 in. or greater. Very little rainfall in extreme south central.

Soil moisture varied; surplus north mostly adequate south. Fieldwork: 4 days suitable. Some flooding northern low-lying areas. Peanut harvest complete, last year 100% dug, 99% threshed. Corn rated poor; 94% harvested, last year 88%. Cotton poor to fair; 56% picked, last year 54%. Soybeans mostly fair to good; 41% combined, 42% last year. Pastures and cattle fair to good. Hogs fair to mostly good. Pecans mostly fair to good; 42% harvested, 39% last year. Apples fair to good; 98% harvested, 99% last year. Wheat seeding 70%, rye 81%, other small grains 80%. Last year wheat 62%, rye 78%, other small grains 74%.

**HAWAII:** Weather favorable. Few light showers.

Heavy irrigation resuming some areas of Hawaii and Maui. Spraying for insect control frequent. Vegetable supplies light to moderate. Banana, papaya supplies heavy. Pineapple plantings active all growing islands, harvesting light. Sugar: no activity, strike. Pastures fair to good.

IDAHO: Temperatures normal to 7° below normal. Extremes: 65 and 3°. Precipitation generally 0.01 to 0.49 in. below normal.

Sugarbeet harvest complete. Farm activities: moving cattle to winter feed areas. Livestock in good condition. Feed supplies adequate.

ILLINOIS: Temperatures 4° above normal extreme northwest, near normal elsewhere. Precipitation below 0.33 in. many sections, heaviest west and northwest. First snow northeast. No rainfall extreme south.

Corn 83% harvested, 90% 1976, 84% average. Soybeans 93% combined, 100% 1976, 98% average. Grain sorghum 90% harvested. 1978 winter wheat 95% seeded, 98% 1976 and average; new seedings mostly good. 1978 corn and soybean acreage 30% plowed, 50% 1976, 46% average. Pastures mostly good. Soil moisture adequate to surplus. Fieldwork: 2.5 days suitable.

INDIANA: Temperatures above normal; rainfall below normal with amounts 0.20 in. central and west, 0.50 in. elsewhere. Several inches snow extreme north and northeast weekend. Sunshine only 36% of possible. Extremes: 14 and 73°.

Fieldwork: 3 days suitable. Topsoil and subsoil moisture mostly adequate to surplus. Corn 80% harvested, 1976 85%, average 65%. Soybeans 85% combined, 1976 100%, average 85%. Wheat 90% seeded, 1976 100%. Wheat 80% emerged, 1976 80%; stands good. Tobacco 35% stripped. Pastures fair to good.

IOWA: Cold and wet, some snow. Blizzard, west side. Subnormal temperatures throughout.

Harvest showed little advance. Fieldwork: 2 days suitable. Corn condition fair, some wind damage and ear droppage. Corn harvest 78%, complete last year, 74% normal. Soybean harvest 87% complete, 100% last year, 96% normal. Increase in bean mold and pod shattering. Hay and pasture continue to benefit from additional moisture. Livestock in fair condition; more on grain.

KANSAS: Season's first snow northwest. Local flooding east as precipitation ranged from less than 0.10 in. west to over 2.00 in. east. Temperatures near normal to 2° above normal.

Cold, gusty winds, snow northwest; rain eastern two-thirds; farm activities halted. Hard freeze, farm activities slowest east due to excessive rainfall. 1978 wheat crop seeded near 100%, equal last year, average. Mosaic, leaf rust prevalent west. Pasturing wheat 5%, equal last year, average 10%. Corn harvest 95%, last year 90%, average 75%. Sorghum grain harvested 85%, last year 90%, average 75%. Soybeans harvested 65%, last year 90%, average 80%. Moisture conditions mixed, very dry west, adequate central, surplus east. Livestock grazing stubble, volunteer wheat, newly seeded wheat, sudan fields.

KENTUCKY: Weather unsettled; rainfall light although central averaged 1.20 in. Temperatures near 50°, about 5° above normal.

Fieldwork: 3 days favorable. Activities: Corn and soybean harvest, seeding wheat and cover crops, and stripping tobacco. Soil moisture adequate to surplus. Corn and soybean harvest slowed; corn now 85%, 83% 1976 and 84% average; beans 74% harvested, 78% 1976 and average. Corn harvesting losses large due to lodging and bird damage. Some early soybeans moldy. Tobacco stripping made good progress; 51% stripped, 34% 1976, 33% average. Some tobacco in high case due to warm, humid weather. Wheat, barley and pasture in good to excellent condition.

LOUISIANA: Temperatures 1 to 4° below normal. Extremes: 28 and 81°. Rain first of week.

Soil moisture short northwest, adequate to surplus elsewhere. Main activities harvesting cotton, soybeans, sugarcane and fall plowing and seeding. Cotton 86% harvested, 89% 1976, 68% average. Soybeans 80% harvested, 94% 1976, 77% average. Sugarcane 36% harvested, 38% 1976, 36% average. Sweetpotatoes 94% harvested, 97% 1976. Pecans 57% harvested, 87% 1976. Pastures and livestock fair to good.

MARYLAND & DELAWARE: Temperatures 10° above normal. Highs in upper 60's, lows in mid-50's. Precipitation widespread, mostly 1.00 to 2.00 in. rain. Few areas on Eastern Shore received 3.00 in. or more.

Topsoil moisture surplus, subsoil adequate. Pastures supplying above average amounts of feed. Soybean harvest delayed due to wet conditions. About 50% of crop harvested, 80% 1976, 68% average. Harvest should finish rapidly as fields dry.

MICHIGAN: Temperatures above normal ranging 1 to 4° above normal Lower and 2 to 4° above in Upper Peninsula. Extremes: 14 and 67°. Precipitation less than 0.50 in. central Lower to over 1.00 in. northeast Lower.

Fieldwork: 3 days suitable. Very limited fieldwork included picking corn, digging sugarbeets, combining soybeans, salvaging dry beans, and fall plowing. Soil moisture adequate to surplus. Pastures average or above. Fall plowing 25% complete, 42% 1976. Corn 60% picked, 89% 1976, 65% normal. Dry beans no progress. Soybeans 75% picked, 97% 1976, 85% normal. Sugarbeets 95% dug, 1976 complete. Cabbage 95% cut.

MINNESOTA: Temperatures 3° above normal east and central, near normal most of north and west, 3° below normal extreme southwest. Extremes: 61 and -3°. Precipitation near normal east, 1.75 in. above normal central and west. Amounts ranged up to 2.80 in. west and central. Rain followed by heavy snowfall midweek. Snow on ground at weeks end: None east, 2.00 to 6.00 in. southwest and north central.

Heavy snow, high winds halted all harvesting in western areas at midweek. Many unharvested fields filled with snow; few may not be harvested until spring.

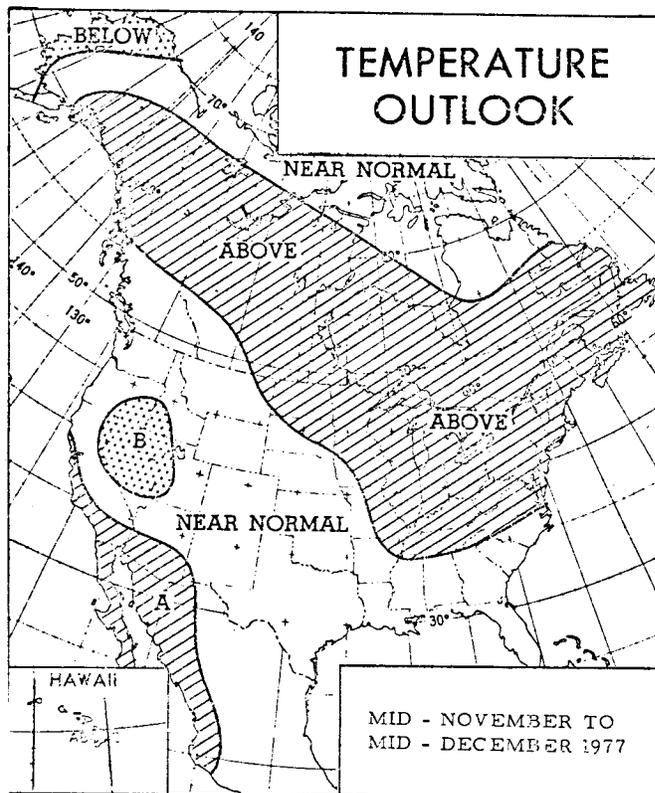
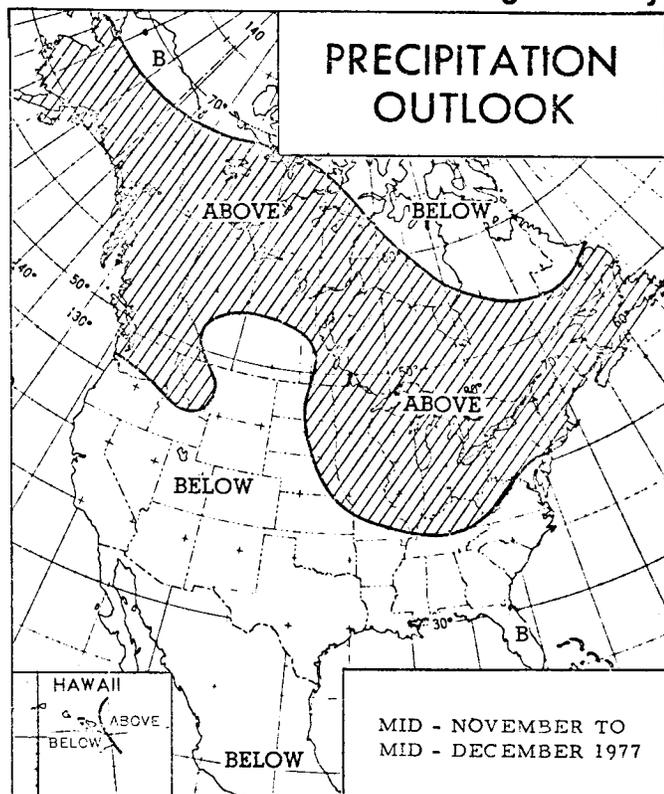
MISSISSIPPI: Temperatures 3 to 6° above normal. Extremes: 81 and 24°.

Soil moisture surplus to adequate. Fieldwork: 2.9 days suitable. Soybeans 70% harvested, 80% 1976, 64% average. Cotton 89% harvested, 82% 1976, 68% average. Corn 92% harvested, 91% 1976, 85% average. Sorghum 95% harvested, 93% average. Pecans 59% harvested, 41% 1976, 41% average. Winter wheat 80% planted, 91% 1976, 80% average. Oats 85% planted, 93% 1976, 87% average. Winter wheat and oats in good condition. Pastures and livestock in good to fair condition.

MISSOURI: Warm beginning week, cold at end. Temperatures 7° above normal Bootheel; Ozarks coldest areas with temperatures 2 to 3° above normal. Rainfall heaviest in northwest prairie, with about 1.00 in.; west Ozarks 0.75 in.; elsewhere 0.25 to 0.50 in.

Fieldwork: 1 day suitable. Soybeans 62% harvested, last year 90%, normal 77%. Corn 71% harvested, last year 91%, normal 72%. Grain sorghum 79% harvested, last year 93%, normal 76%. Cotton 88% harvested, normal 73%. Winter wheat seeding 57% complete, last year 91%. Fall plowing 25%

Average Monthly Weather Outlook



complete, last year 59%. Pasture condition good to excellent. Soil moisture adequate to surplus.

**MONTANA:** Temperatures near normal beginning week, warming 8 to 10° above normal midweek. Highest maximums lower 60's east of Divide and 50's west. Lowest temperatures in teens early in week, rising to 20's and 30's by end of week. Precipitation confined mostly to west and southwest, very spotty over the plains.

Topsoil moisture adequate, subsoil short to adequate. Winter wheat condition mostly good; wind damage none to light. About 20% of livestock on supplemental feed, stockwater mostly adequate. Winter range and pasture fair.

**NEBRASKA:** Temperatures above normal first and last parts of period, below normal midweek. Precipitation mostly snow north and west, rain changing to snow southeast.

Topsoil and subsoil moisture adequate or surplus. Corn harvest nearly 85% complete, 95% 1976, normal 80%. Sorghum grain harvest 90% complete, 100% year ago, 90% normal. Soybean harvest nearly 90% completed, 100% year ago, 95% normal. Winter wheat condition good. Wet fields, snow delayed harvest. High winds and snow increased losses most fields.

**NEVADA:** Light precipitation southeast, little or none elsewhere. Cold system early week, warming trend remainder. Temperatures ranged from 2° above normal to 5° below. Extremes: 77 and 3°.

Mild weather easy on fall seeded grains; cotton harvest off to slow start.

**NEW ENGLAND:** Cloudy, wet and mostly mild. Rain fell most days. Amounts of 3.50 to 4.50 in. reported locally in northern portions; elsewhere between 1.00 and 2.00 in. fell. Snow 12th and 13th totaling 1 to 4 in. Temperatures well above normal.

**NEW JERSEY:** Temperatures started 10 to 15° above normal, and ended 10 to 15° below normal, averaging 46° north, 49° south and 50° coastal areas. Extremes: 24 and 70°. Record breaking rainfall 14th thru 16th averaging 3.71 in. north, 3.80 in. south and 4.13 in. coastal sections. Snow flurries 12th in central and north.

Heavy rains caused some flooding. Harvest of hardy vegetables continues. Harvest of field corn and soybeans delayed by wet weather. Some crop losses occurred.

**NEW MEXICO:** Major storm brought appreciable rain and snow 6th to 8th. Very windy 8th and turning much colder with sub-freezing temperatures.

Cotton, 60% harvested. Alfalfa harvest completed. Grain sorghum, 90% harvested. Fall lettuce harvest completed. Irrigated winter wheat in good condition, dryland fair. Ranges poor to fair. Livestock good.

**NEW YORK:** Up to 5.75 in. rain south, up to 1.00 in. north. Cold on 12th and 13th caused up to 7 in. snow to lee of Great Lakes; up to 2 in. north country. Temperatures mostly in 40's. Extremes: 19 and 68°.

**NORTH CAROLINA:** Temperature and precipitation above normal.

Fieldwork: 1 to 2 days suitable. Soil moisture adequate to surplus. Conditions: Pastures fair to good; small grains good. Harvested: Cotton 65%, 1976 52%, average 61%; soybeans 19%, 1976 34%, average 38%; sorghum grain 81%, 1976 82%, average 80%. Planted: Wheat 76%, 1976 56%, average 65%; oats 81%, 1976 67%; barley 81%, 1976 59%; rye 75%, 1976 65%.

**NORTH DAKOTA:** First blizzard of season struck east; 7 in. snow with 2.62 in. water. Temperatures

above normal, including areas struck by storm. Temperature 2 to 5° above normal. Extremes: 63 and 9°.

Sunflower harvest and corn picking virtually complete. Blizzard hampered work in east. Winter ranges and pastures mostly fair condition. Sales of cattle and calves about normal.

OHIO: Temperatures above normal 7th to 10th, below normal remainder of week. Extremes: 76 and 16°. Precipitation 0.11 in. west to 2.18 in. east.

Fieldwork: Less than 5 days favorable. Soybean harvest virtually complete. Corn 80% harvested, 70% normal, 75% year ago. Cold weather allowed sugarbeet lifting to advance rapidly; virtually complete. Popcorn harvest 85% shelled, on schedule. Tobacco has been in case, 35% stripped, 15% last year. Winter wheat stands good. Pasture good. Soil moisture adequate. Much fall plowing.

OKLAHOMA: Temperatures 2 to 5° below normal south-east to near normal elsewhere. Precipitation between 1.00 and 1.50 in. except Panhandle. Panhandle precipitation was 2 in. snowfall.

Topsoil and subsoil moisture supplies adequate. Stock ponds low in west. Wheat rated good to fair; 92% up to stand, 93% 1976 and 88% normal. About 10% wheat acreage providing pasture. Oats rated good; 75% up to stand, 84% 1976 and normal. Barley rated good; 66% up to stand, 87% 1976 and normal. Grain sorghum harvest 78% complete, 81% 1976 and 63% normal. Cotton rated good to excellent; 33% harvested, 24% 1976 and 10% normal. Peanut harvest 87% complete, 89% 1976 and 77% normal. Soybean harvest 63% complete. Pasture and ranges good to fair condition. Livestock good condition.

OREGON: Temperatures near normal with highs mostly in the mid-50's to mid-60's. Minimum temperatures occurred at midweek with lows in upper 20's west of Cascades and in teens in east. Precipitation varied; along coast ranged from 1.01 to 3.22 in. Willamette Valley 0.30 to 0.70 in., elsewhere amounts generally less than 0.20 in.

Farm activity light. Fall seeding and land preparation continue as weather permits. Most areas over 90% complete. Harvesting activity at virtual standstill. Rains good for pasture and range growth. Cattle and calves in good shape. Feed supplies adequate.

PENNSYLVANIA: Cloudy, wet. Mild beginning week, much colder weekend. Precipitation totaled 2.00 to 3.00 in. east, 0.50 to 1.50 in. west. Snow flurries and squalls weekend, 8 to 12 in. north-west snowbelt, trace to several inches elsewhere. Temperatures near normal to 3° above normal. Extremes: 75 and 12°.

Farmers harvesting corn and soybeans where soil conditions permit.

PUERTO RICO: Island average rainfall 2.82 in. or 1.21 in. above normal. Temperatures averaged about 79° on coasts and 75° interior. Extremes: 97 and 61°.

SOUTH CAROLINA: Normal temperatures first to below normal later. Frost, freezing eastern, central regions, 11th and 12th. Scattered rains 13th.

Soil moisture generally adequate, few areas wet. Cloudy days slowed drying. Fieldwork: 4 days suitable. Cotton harvest interrupted by rains, some fields wet; growers hoped late bolls would mature before first freeze. Soybeans 91% mature compared to 94% last year; cloudy days slowed drying. Freeze terminated growth of late varieties. Pasture condition fair. Winter grazing 91% planted,

85% emerged to good stands; growing nicely. Small grain condition good to fair. Wheat 60% planted, 46% emerged. Oats, barley about 70% planted, 60% emerged. Rye 73% planted, 66% emerged. Many vegetable growers busy harvesting, anticipating freeze. Pecan harvest volume increase expected with drop from earlier rains, winds. Cotton harvested 76%, 64% 1976, 76% average. Soybeans harvested 25%, 31% 1976, 40% average.

SOUTH DAKOTA: Winter's first severe snowstorm midweek. Snow accumulation ranged from 4 to 12 in. Winds frequently more than 60 mph. Temperatures warmer prior to storm. Extremes: 5 and 64°.

Harvest at virtual standstill due to blizzard. Farmers waiting for snow to melt and ground to freeze hard. Corn harvested 80%, 1976 100%, normal 89%. Grain sorghum harvested 92%, 1976 100%, normal 99%. Soybeans harvested 96%, 1976 100%, normal 100%. Sunflowers 87% harvested.

TENNESSEE: Temperatures near normal averaging low to mid-50's west and upper 40's to low 50's east. Precipitation light with less than 0.10 in. over west and less than 0.75 in. middle and east.

Cattle marketings increasing due to short hay supplies and high overwintering costs. Pastures good. Soybeans harvested 75%, 75% 1976, 60% normal. Cotton harvested 88%, 62% 1976, 66% normal. Corn harvested 84%, 78% 1976, 77% normal. Burley tobacco stripped 73%, 64% 1976, 67% normal. Fall plowing completed 85%, 85% 1976, 88% normal. Wheat seeded 87%, 80% 1976, 80% normal. Oats seeded 96%, 92% 1976, 96% normal. Barley seeded 98%, 92% 1976, 98% normal.

TEXAS: Temperatures normal. Rainfall above normal Edwards Plateau, East Texas, Cross-Timbers, Blacklands; below normal Lower Valley.

First winter storm brought killing freeze to plains with sleet, snow on northern High Plains. Scattered frost extended into south. Cotton harvest continued at rapid pace as killing freeze defoliated fields not desiccated earlier. Trailers stacking up in gin yards some areas of plains, Trans-Pecos. Sorghum harvest virtually complete. Soybean harvest hampered by rain, wet fields along Upper Coast; but some progress made. Peanut harvest again slowed by wet weather. Sunflower harvest approaching completion; should finish rapidly. Sugarbeet harvest good progress on High Plains; sugar content improving with cooler weather. Sugarcane harvest now underway in Lower Rio Grande Valley. Wheat seeding some progress. Scattered rains beneficial to stands, however, dryland stands on plains have made only limited growth; more rain needed. Oat stands given boost by recent rains; looking better. Flax planting made little progress due wet fields. Sorghum harvested 99%, 97% 1976, 94% average. Cotton harvested 69%, 99%, 97% 1976, 31% average. Peanuts harvested 85%, 32% 1976, 79% average. Soybeans harvested 75%, 86% 1976, 62% average. Pecans harvested 27%, 33% 1976, 19% average. Sugarbeets harvested 66%, 61% 1976, 86% average. Sunflowers harvested 97%, 77% 1976, 77% average. Wheat planted 90%, 89% 1976, 93% average. Flax planted 6%, 7% 1976, 21% average.

Citrus harvest continues to increase. Onions, cabbage, cauliflower, broccoli, carrots making good growth. Harvesting tomatoes, peppers, cucumbers, carrots and cabbage. Frost damage to tomatoes, bell peppers and other tender crops some areas. Pecan harvest expected to accelerate after near freezing temperatures. Freezing temperatures, frost slowed pasture growth; light scattered frost extended into south. Few cattle deaths due winter storm on northern High Plains. Small grain pas-

tures furnishing very limited grazing, but stands, prospects, many areas improved by recent rains.

UTAH: Few isolated very light showers forepart of period otherwise little or no precipitation. Temperatures quite variable ranging from 3° below normal to 5° above.

Soil moisture deficit very serious. Range feed outlook poor. Potato and sugarbeet harvest virtually completed. Generally good weather for fieldwork. Breeding range ewes for spring lambing.

VIRGINIA: Rainfall 2.50 in. Temperatures 11° above normal. Extremes: 79 and 29°.

Corn combining 87%, 74% 1976, 76% average. Soybean combining 20%, 45% 1976, 51% usual. Sorghum grain harvest 28%, 49% 1976. Cotton picking complete, 65% 1976, 39% usual. Some peanut acreage not yet harvested; suffered some loss from rain and freeze damage. Burley, sun and fire tobacco growers preparing for market openings. Wheat seeded 67%, 66% 1976, 73% usual. Topsoil moisture adequate to surplus. Fieldwork: less than one day favorable.

WASHINGTON: West: Temperatures near normal. Precipitation below normal except 1.50 in. above along coastal area.

Carrots, celery and small amount silage harvested.

East: Temperatures near normal. Precipitation 0.10 to 0.30 in. below normal.

Orchardists continue rodent control, applying herbicides. Potato and carrot harvest nearing completion; sugarbeets and grain corn being harvested. Germinated wheat looks good; surface moisture adequate; subsoil needs more moisture. Pruning grape vines.

WEST VIRGINIA: Temperatures 10° above normal first of week; below freezing last. Precipitation averaged twice the normal amount falling as rain then changing to snow. Snow accumulation 7 in. higher elevations.

Fieldwork: 2.6 days suitable. Rain slowed all farm activities. Soil moisture adequate. Fall pasture good. Winter hay supply short to adequate.

WISCONSIN: Temperatures 3° above normal. Cloudy, foggy, and mild with periods of drizzle and light rain until midweek. High readings in 60's 8th but turning sharply colder with passage of cold front late 9th. Highs in 30's rest of week, lows in single digits or teens. Light snow and flurries 10th, a few inches accumulation extreme north. Precipitation heaviest north at 0.60 in., less than 0.50 in. elsewhere.

Little progress on corn and soybean harvest after midweek as weather cleared. Corn for grain 75% harvested, 1976 98%, normal 80%. Low fields too wet for harvesting will need hard ground freeze to support equipment. Few chopping corn stalks, but forage and straw supplies more abundant this year. Soybeans 75% combined, 1976 100%, normal 90%. Fall plowing 40% done, 1976 40%, normal 60%. Some fields too wet for plowing. Topsoil moisture supplies adequate to surplus. Winter wheat has good growth.

WYOMING: Temperatures above normal. Precipitation below normal with largest amount 0.49 in.

Winter wheat fair to good, additional moisture needed; some not emerged. Corn picking continues. Livestock fair to good condition, lighter than normal. Weaning and feeding calves.

## World Weather and Crop Update

November 7 - 13

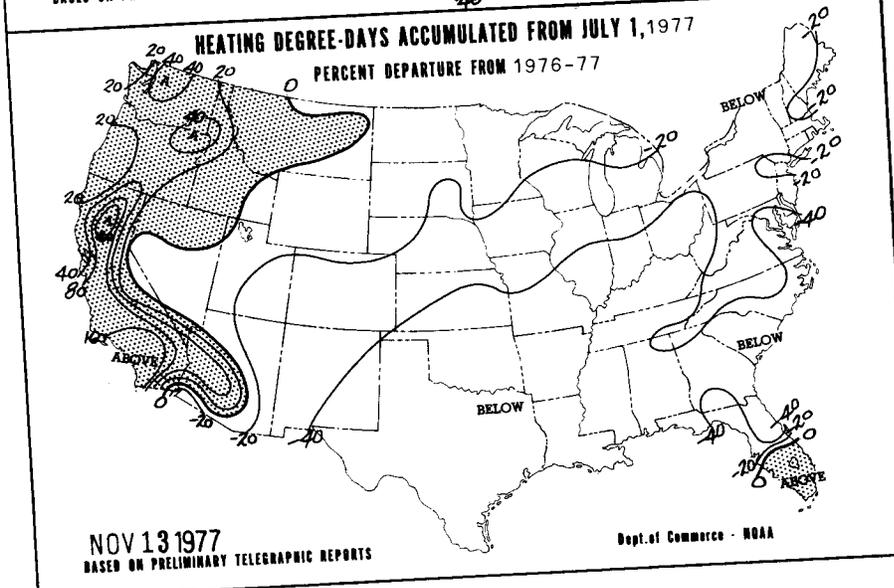
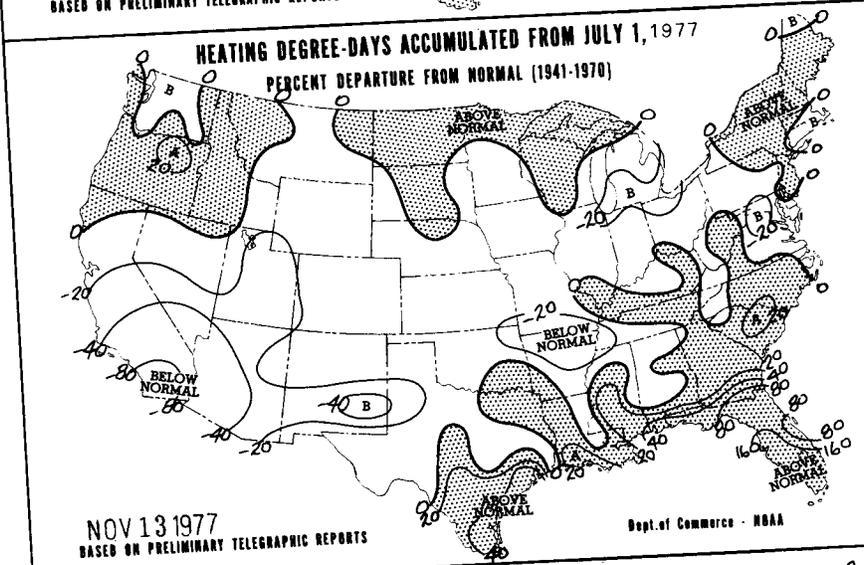
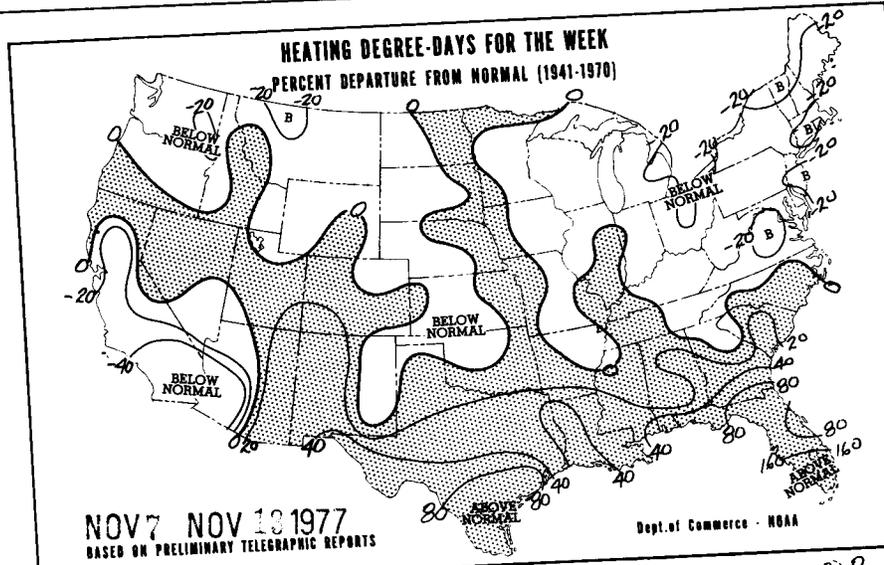
USSR. Mild weather has dominated European USSR thus far in November. Winter grains were helped by the extended fall and generally good growing conditions as vegetative growth (tillering) continued in the Ukraine, North Caucasus, and Moldavia. Harvesting of a record cotton crop continues in Central Asia.

ASIA. Dry weather continued to plague Australia's grain areas. Soil moisture was low in most areas, and rain is urgently needed to prevent further deterioration of crops and pastures. The Chinese have officially announced that winter wheat sowing was completed in the Yellow River, Huai River, and Haiho River Valleys, China's main winter wheat belt. Drought complicated sowing in some areas without irrigation facilities, but seeding was successfully carried out by watering by hand prior to sowing. Favorable conditions prevailed throughout South China where harvesting of late crops is underway. A tropical disturbance brought heavy rains to the lower third of the Indian Peninsula, but only light, isolated showers fell over the remainder of the subcontinent.

AFRICA. In North Africa, winter grains and pastures along the coastal regions of Tunisia and Algeria were aided by light to locally heavy rains. However, other regions in these countries and Morocco were without significant rainfall. It was warm and generally dry in the main agricultural region of South Africa where spring sowing began.

AMERICAS. Moderate to locally heavy showers fell over Brazil's southern agricultural regions, helping spring-sown crops but interfering somewhat with the wheat harvest still underway in the area. Winter grains, pastures, and spring crops continued to prosper as moderate to heavy rains, locally excessive, dampened most of the Argentine grain belt.

EUROPE. For the second successive week, the northern half of Europe from the United Kingdom into eastern Europe was dominated by a weather pattern that produced frequent, light rains and seasonally mild temperatures. Warm, dry conditions favored fieldwork in southern France, Spain, Italy, and Austria. Wet conditions also plagued field activities in the northern half of eastern Europe, but it was generally dry throughout the remainder of that region until weekend showers hit parts of Hungary and Yugoslavia. Light to moderate showers moistened much of Turkey including the main grain areas.



HEATING DEGREE DAYS (BASE 65°) FOR WEEK ENDING NOV. 13, 1977.

STATES AND STATIONS	WEEKLY		SEASONAL ACCUMULATION +		STATES AND STATIONS	WEEKLY		SEASONAL ACCUMULATION +		STATES AND STATIONS	WEEKLY		SEASONAL ACCUMULATION +	
	TOTAL	DEPARTURE*	TOTAL	DEPARTURE*		TOTAL	DEPARTURE*	TOTAL	DEPARTURE*		TOTAL	DEPARTURE*	TOTAL	DEPARTURE*
ALA. BIRMINGHAM...	100	20	294	14	MAINE CARIBOU...	149	46	1508	64	OKLA. OKLAHOMA CITY...	138	18	704	106
MOBILE...	62	4	159	47	PORTLAND...	91	26	1116	271	TULSA...	95	0	263	60
MONTGOMERY...	62	4	162	37	MD. BALTIMORE...	98	18	416	62	OREG. ASTORIA...	20	4	1159	44
ARIZ. FLAGSTAFF...	184	14	926	346	MASS. BOSTON...	90	32	563	35	BURNS...	157	1	763	108
PHOENIX...	146	16	181	16	MICH. ALPENA...	123	13	1213	13	DEFORD...	153	1	653	111
TUCSON...	156	14	66	6	DETROIT...	147	29	1088	95	PENDLETON...	142	1	996	221
WINSTON...	156	14	481	16	GRAND RAPIDS...	147	29	1088	95	PORTLAND...	142	1	996	221
YUMA...	156	14	481	16	HOUGHTON LAKE...	147	29	1088	95	SALEM...	142	1	996	221
ARK. FORT SMITH...	101	0	269	16	LANSING...	147	29	1088	95	PA. ALLENTOWN...	32	10	609	74
LITTLE ROCK...	90	0	234	6	MARQUETTE...	147	29	1088	95	ERIE...	126	2	366	30
CALIF. BAKERSFIELD...	39	1	1270	77	MUSKOGEE...	147	29	1088	95	HARRISBURG...	126	2	366	30
FRESNO...	98	1	152	52	S. STE. MARIE...	147	29	1088	95	PHILADELPHIA...	119	1	749	47
LOS ANGELES...	15	1	39	149	MINN. DULUTH...	21	19	1605	92	PITTSBURGH...	119	1	749	47
RED BLUFF...	46	1	176	110	INTERNATIONAL FALLS...	21	19	1605	92	SCRANTON...	119	1	749	47
SAN DIEGO...	54	1	476	10	MINNEAPOLIS...	21	19	1605	92	S. I. PROVIDENCE...	110	25	669	22
SAN FRANCISCO...	56	1	135	6	ROCHESTER...	21	19	1605	92	S. C. CHARLESTON...	63	10	184	21
STOCKTON...	56	1	135	6	ST. CLOUD...	21	19	1605	92	COLUMBIA...	63	10	184	21
COLO. DENVER...	156	12	682	141	MISS. JACKSON...	83	22	245	51	GREENVILLE...	63	10	184	21
GRAND JUNCTION...	185	26	529	131	MERIDIAN...	83	22	245	51	S. DAK. ABERDEEN...	23	14	1153	131
PUEBLO...	62	2	660	249	MO. COLUMBIA...	122	6	196	27	HURON CITY...	108	1	1018	40
CONN. BRIDGEPORT...	82	34	456	58	KANSAS CITY...	122	6	196	27	ST. LOUIS...	108	1	1018	40
HARTFORD...	116	31	711	231	ST. LOUIS...	122	6	196	27	SPRINGFIELD...	108	1	1018	40
DEL. WILMINGTON...	105	14	506	14	SPRINGFIELD...	122	6	196	27	TENN. CHATTANOOGA...	11	11	353	20
D.C. WASHINGTON...	74	29	286	94	MONT. BILLINGS...	165	22	1053	96	KNOXVILLE...	89	2	222	269
FLA. PALACHICOLA...	45	15	115	93	GLASGOW...	142	22	1208	106	MEMPHIS...	108	4	384	303
DAYTONA BEACH...	30	20	232	31	GREAT FALLS...	142	22	1208	106	TEXAS. ABILENE...	108	10	190	273
FORT MYERS...	20	15	52	31	HAYNE...	142	22	1208	106	AMARILLO...	108	10	190	273
JACKSONVILLE...	20	15	52	31	HELENA...	142	22	1208	106	AUSTIN...	108	10	190	273
KEY WEST...	30	15	137	98	KALISPELL...	142	22	1208	106	BEAURON...	108	10	190	273
LAKELAND...	30	15	137	98	MILES CITY...	142	22	1208	106	BROWNSVILLE...	108	10	190	273
MIAMI...	30	15	137	98	MISSOULA...	142	22	1208	106	CORPUS CHRISTI...	108	10	190	273
ORLANDO...	30	15	137	98	NEBR. GRAND ISLAND...	164	70	704	61	DEL RIO...	108	10	190	273
TALAHASSEE...	30	15	137	98	LINCOLN...	164	70	704	61	EL PASO...	108	10	190	273
TORONTO...	30	15	137	98	NORFOLK...	164	70	704	61	FORT WORTH...	108	10	190	273
WEST PALM BEACH...	30	15	137	98	NORTH PLATTE...	164	70	704	61	GALVESTON...	108	10	190	273
GA. ATLANTA...	98	1	294	29	ORAMA...	164	70	704	61	HOUSTON...	108	10	190	273
AUGUSTA...	74	1	240	14	VALENTINE...	164	70	704	61	LUBBOCK...	108	10	190	273
Macon...	62	1	167	1	NEV. ELY...	204	115	1157	146	MIDLAND...	108	10	190	273
SAVANNAH...	62	1	167	1	LAS VEGAS...	204	115	1157	146	SAN ANGELO...	108	10	190	273
IDAHO. BOISE...	105	5	803	60	RENO...	204	115	1157	146	SAN ANTONIO...	108	10	190	273
LEHISTON...	105	5	803	60	MINNEAPOLIS...	204	115	1157	146	VICTORIA...	108	10	190	273
POCATELLO...	105	5	803	60	N. H. CONCORD...	139	32	1148	115	NACO...	108	10	190	273
ILL. CAIRO...	114	34	633	275	N. J. ATLANTIC CITY...	94	23	469	33	RICHITA FALLS...	108	10	190	273
CHICAGO...	114	34	633	275	TRENTON...	94	23	469	33	UTAH. SALT LAKE CITY...	167	1	615	191
MOLINE...	114	34	633	275	N. MEX. ALBUQUERQUE...	61	33	435	12	BURLINGTON...	134	43	1083	7
PEORIA...	114	34	633	275	ROSMELL...	61	33	435	12	VA. LYNCHBURG...	87	23	455	49
ROCKFORD...	114	34	633	275	N. Y. ALBANY...	138	22	1033	267	NORFOLK...	63	2	236	30
SPRINGFIELD...	114	34	633	275	BINGHAMTON...	138	22	1033	267	RICHMOND...	63	2	236	30
IND. EVANSVILLE...	114	41	411	70	BUFFALO...	138	22	1033	267	ROANOKE...	63	2	236	30
FORT WAYNE...	114	41	411	70	NEW YORK...	138	22	1033	267	WASH. BULLAYUTE...	136	1	1409	78
INDIANAPOLIS...	114	41	411	70	ROCHESTER...	138	22	1033	267	SEATTLE-TACOMA...	124	1	894	26
SOUTH BEND...	114	41	411	70	SYRACUSE...	138	22	1033	267	SPokane...	124	1	894	26
IOWA. BURLINGTON...	111	6	67	30	N. C. ASHEVILLE...	119	24	309	24	HALLA HALLA...	103	8	1078	101
DES MOINES...	111	6	67	30	CHARLOTTE...	119	24	309	24	YAKIMA...	103	8	1078	101
DUBUQUE...	111	6	67	30	GREENSBORO...	119	24	309	24	W. VA. BECKLEY...	118	100	757	30
SIOUX CITY...	111	6	67	30	HATTERAS...	119	24	309	24	CHARLESTON...	118	100	757	30
KANS. CONCORDIA...	115	4	274	274	WILKINGTON...	119	24	309	24	HUNTINGTON...	118	100	757	30
DODGE CITY...	115	4	274	274	N. DAK. BISHARCK...	214	17	1304	28	PARKERSBURG...	110	1	492	38
GOODLAND...	115	4	274	274	FARGO...	214	17	1304	28	WIS. GREEN BAY...	171	27	1062	46
TOPEKA...	115	4	274	274	WILLISTON...	214	17	1304	28	LACROSSE...	171	27	1062	46
WICHITA...	115	4	274	274	OHIO. KARRON-CANTON...	133	23	466	33	MADISON...	164	18	1096	38
KY. LEXINGTON...	111	14	414	9	CINCINNATI...	133	23	466	33	WILBAURKE...	164	18	1096	38
LOUISVILLE...	111	14	414	9	CLEVELAND...	133	23	466	33	WYO. CASPER...	209	10	1048	10
LA. BATON ROUGE...	51	11	116	170	COLUMBUS...	133	23	466	33	CHEYENNE...	209	10	1048	10
LAKE CHARLES...	51	11	116	170	DAYTON...	133	23	466	33	LANDER...	209	10	1048	10
NEW ORLEANS...	74	2	103	139	TOLEDO...	133	23	466	33	SHERIDAN...	209	10	1048	10
SHREVEPORT...	74	2	103	139										

BASED ON 1941-70 NORMALS.

\* ACCUMULATION FROM JULY 1, 1977.



**FIRST CLASS MAIL**

**HARVESTING PROGRESS**

Percent of acres harvested as of November 13

CORN				SOYBEANS			
	1977	1976	Avg.		1977	1976	Avg.
Ga	94	88	NA	Ala	55	72	71
Ill	83	90	84	Ark	61	74	66
Ind	80	85	65	Ga	41	42	NA
Iowa	78	100	74	Ill	93	100	98
Kans	95	90	75	Ind	85	100	85
Ky	85	83	84	Iowa	87	100	95
Mich	60	89	65	Kans	65	90	80
Minn	NA	100	NA	Ky	74	78	78
Mo	71	91	72	La	80	94	77
Nebr	85	95	80	Mich	75	97	85
N C	100	92	85	Minn	99	100	100
Ohio	80	70	75	Mo	70	80	64
Pa	NA	NA	NA	Miss	62	90	77
S Dak	80	100	85	Nebr	90	100	95
Tex	100	100	100	N C	19	34	38
Wisc	75	98	80	Ohio	100	100	NA
U. S.	81	92	77	S C	25	31	40
				Tenn	75	75	60
				U. S.	77	87	81

These 16 States produced 92% of the 1976 U. S. corn crop.

These 18 States produced 96% of the 1976 U. S. soybean crop.

**COTTON**

	1977	1976	Avg.
Ala	75	51	64
Ark	90	79	76
Ga	56	54	NA
La	86	89	68
Miss	89	82	68
Mo	88	75	73
N C	65	52	61
Okla	33	24	10
S C	76	64	76
Tenn	88	62	66
Tex	69	32	31

11 Southern States 74 49 46

These 11 States produced 67% of the 1976 U. S. cotton crop.

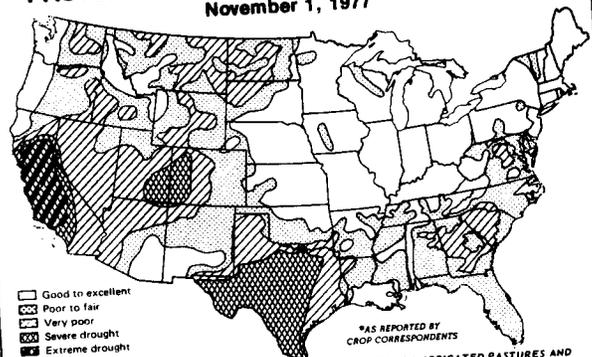
NA = Not Available

**SORGHUM**

	1977	1976	Avg.
Colo	NA	NA	NA
Kans	85	90	75
Mo	79	93	76
Nebr	90	100	90
Okla	78	81	63
S Dak	92	100	99
Tex	99	97	94
7 States	90	94	85

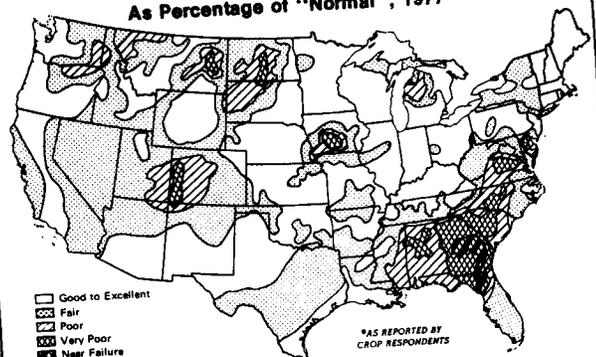
These 7 States produced 90% of the 1976 U. S. sorghum crop.

**PASTURE AND RANGE FEED CONDITIONS\***  
 November 1, 1977



\* INDICATES CURRENT SUPPLY OF PASTURE FEED FOR GRAZING ON NON-IRRIGATED PASTURES AND RANGES RELATIVE TO THAT EXPECTED FROM EXISTING STANDS UNDER VERY FAVORABLE WEATHER CONDITIONS.  
 U.S. DEPARTMENT OF AGRICULTURE NEG. SRS 7-77(11) STATISTICAL REPORTING SERVICE

**YIELD PER ACRE OF ALL CROPS\***  
 As Percentage of "Normal", 1977



\* AS REPORTED BY CROP RESPONDENTS  
 U.S. DEPARTMENT OF AGRICULTURE NEG. SRS 6-77(11) STATISTICAL REPORTING SERVICE