

Weekly Weather & Crop Bulletin

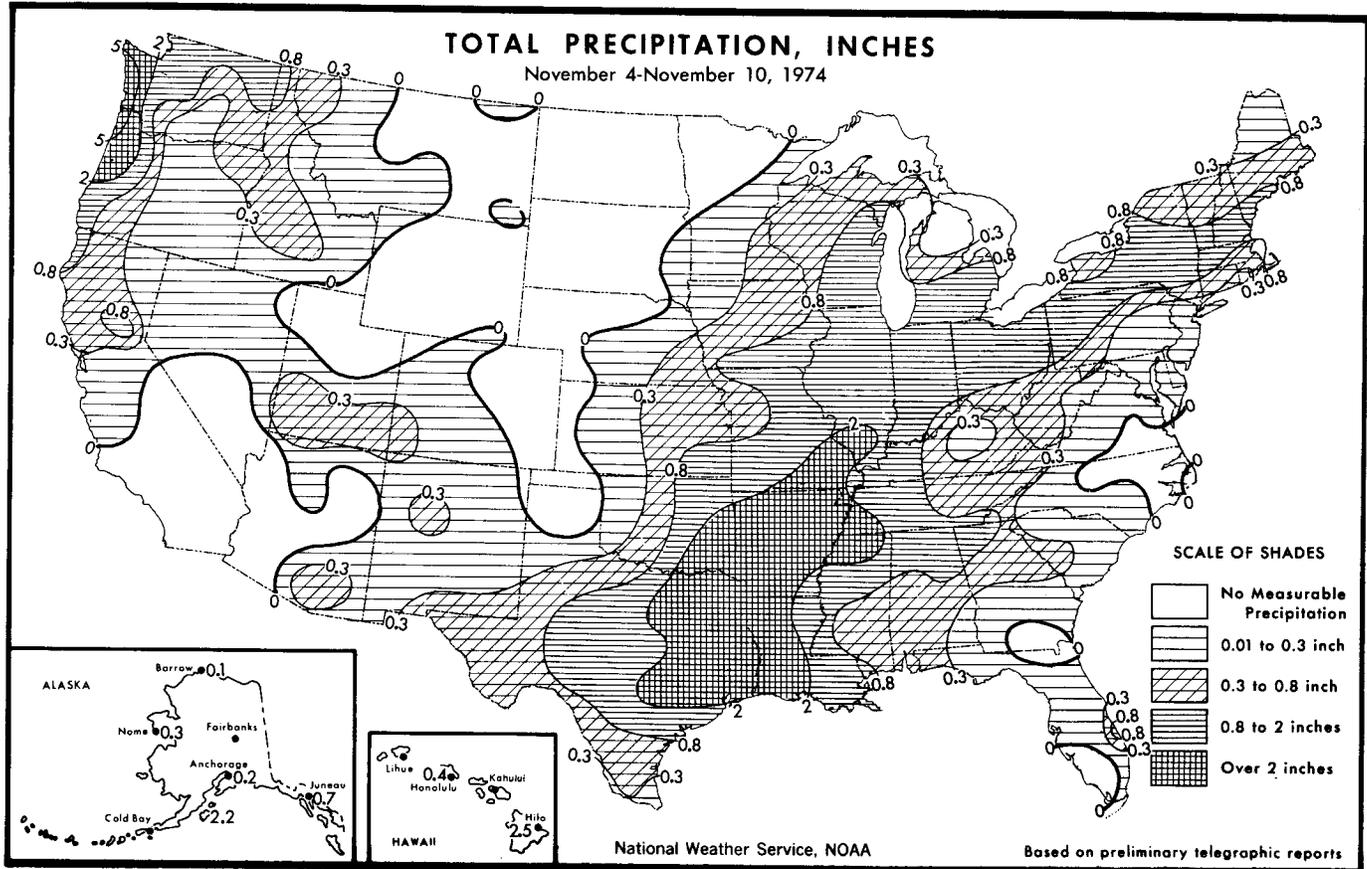
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NATIONAL WEATHER SUMMARY

HIGHLIGHTS: Moderate to heavy rains fell over a 17-State area from Texas to the Great Lakes and eastward into New England. Most of the precipitation was associated with frontal activity early and late in the week.

Heavy rains averaging over 2.00 in. soaked an area including parts of Texas, Louisiana, Oklahoma, Mississippi, Tennessee, and Missouri.

In the West, heavy rains also fell along the Washington-Oregon border.

Most of the Nation experienced temperatures varying only slightly from normal last week. The greatest departures occurred in several Middle Atlantic States and North Central States where temperatures averaged 6° above normal. Temperatures averaged 3 to 6° below normal in Texas, Missouri, Kansas, Oklahoma, New Mexico, and Arizona.

PRECIPITATION: Early in the week, last week's major cold front which had stalled from Michigan

to Texas, swept through the New England area, dumping precipitation averaging better than 1.00 in.

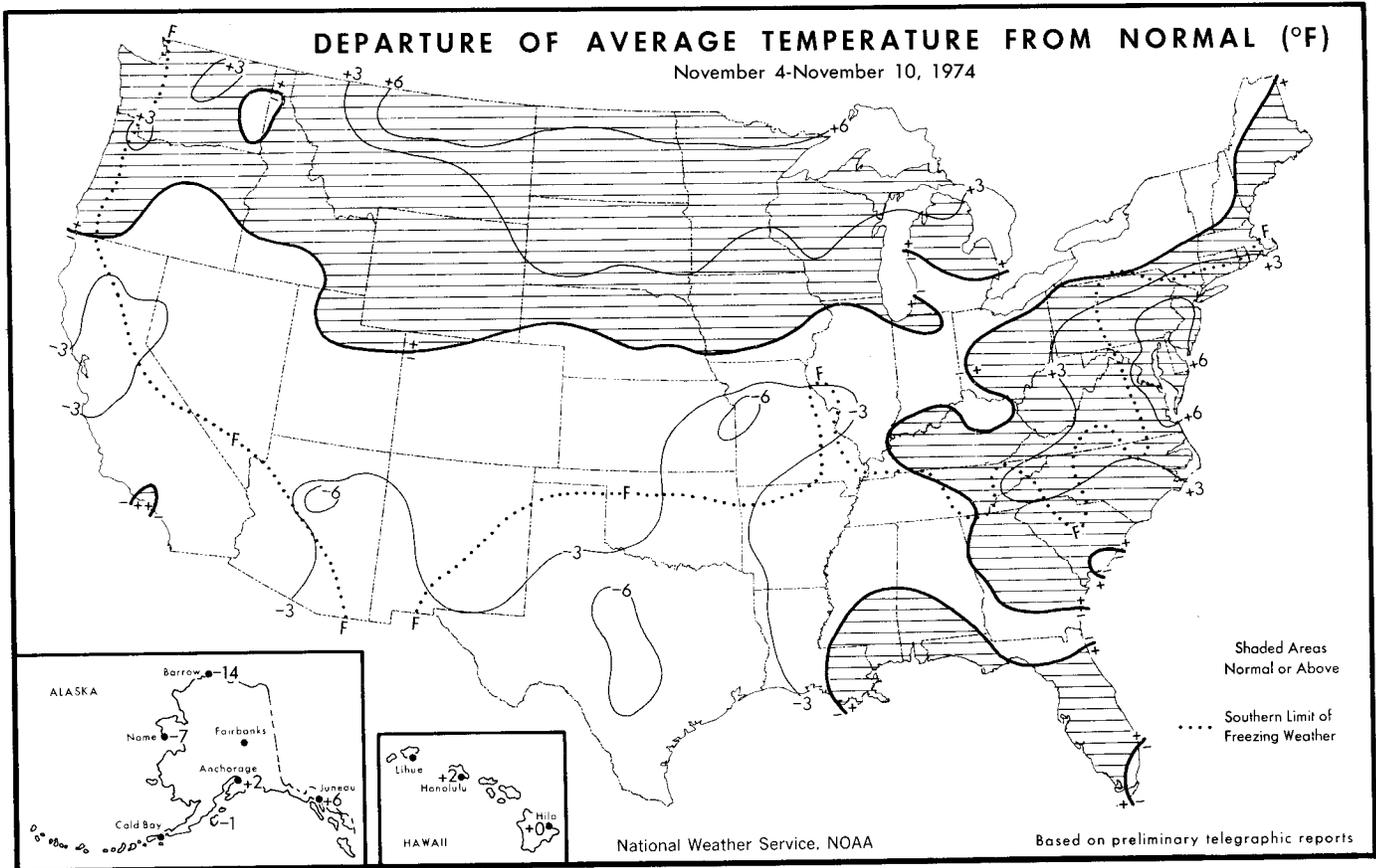
By Tuesday evening the front finally reached the Atlantic Coast with showers limited to New Jersey and southern New England.

At midweek, a cold front invaded the Pacific Coast bringing good rains to the Washington-Oregon border area.

The front moved steadily eastward and by Sunday was stretching from the Great Lakes to the western Gulf Coast, with moderate to heavy rain all along the front.

Monday precipitation moved slowly across the northeastern, central, and southern United States. Rainfall amounts were locally heavy with 6-hour totals over 1.00 in. reported at Memphis, Tenn., Palacios, Tex. and Lake Charles, La.

A low pressure system touched off showers and thunderstorms along the cold front trailing from western Indiana through Alabama on Tuesday. Be-



hind the low, cold air and cloudy skies brought snow to parts of the upper Mississippi Valley. During the afternoon 1.00 in. of snow fell at Mason City, Iowa. Widespread flooding continued in Texas and Oklahoma and parts of Kansas and Missouri.

Wednesday, a cold front moved into the Pacific Northwest, triggering widespread rain and shower activity from northern California through northern Idaho into extreme western Montana.

Rain and drizzle continued on Thursday over most of Texas northeast Oklahoma into northern Louisiana and southern Arkansas.

Friday, the cold front in the West caused scattered showers from the northern Rockies to the northern Great Basin. Light rain fell at the southern end of a cold front trailing into eastern Nevada and southwest Utah.

Light rain and drizzle fell Saturday from southern Minnesota through Kansas, Oklahoma, and western Arkansas into south central and southwestern Texas and extreme southeast New Mexico.

Sunday, the wet weather extended from Texas to Wisconsin, Illinois, and southeastern Minnesota and was moving slowly eastward. The heaviest rains fell over Texas; nearly 2.00 in. drenched Houston.

TEMPERATURE: Alternating warm and cold air dominated the Nation's weather. Temperatures in the East were above normal early and late in the week with cool temperatures in between, and the reverse in the Western States.

Freezing temperatures occurred as far south as

South Carolina, Georgia, New Mexico, and Arizona.

Monday, morning temperatures remained chilly west of the Mississippi River with readings in the 20's and 30's. Flagstaff, Ariz., reported the coldest reading this morning 10°, over snow covered ground. Record highs were set at Norfolk, Va., 84°; Atlantic City, N.J., 80°; Baltimore, Md., 81°; Richmond, Va., 84°.

Cool temperatures in the 30's reached as far south as central Texas and Arkansas on Tuesday. Below-freezing early morning temperatures ruled the northern half of the Plains and most of the Rockies.

Wednesday, the Nation's coldest area was centered in the Central Plains. Temperatures dipped into the 20's as far south as Kansas and Missouri.

Morning low temperatures in the 20's and 30's were common in the interior of the Nation on Thursday.

A new record high was set on Friday at Alpena, Mich., with 63°. Elsewhere, much of the Mississippi Valley and Great Lakes area warmed to the 60° mark.

Saturday, morning lows generally ranged from the 30's in the north to the 50's in the south.

During pre-dawn hours clouds kept temperatures ahead of the midwestern cold front ranging from the 40's in the western Great Lakes to the 60's along the western Gulf of Mexico.

Behind the front in Montana and Wyoming, many places dropped to the 20's while 30's were common in the Plateau.

NATIONAL AGRICULTURAL SUMMARY

For the Week of November 4-10

HIGHLIGHTS: Row crop harvesting was slowed by wet field conditions in much of the eastern half of the Nation. High moisture content also affected corn harvest in much of the Eastern Corn Belt.

The Nation's corn for grain crop was 70% harvested by November 10th, behind last year's excellent 77%, but slightly ahead of normal. Soybean harvest was nearing completion in several States and nationwide was 77% completed by the 10th. Winter wheat stands were much improved by recent rains in most areas except the Northern Plains.

SMALL GRAINS: Rain over much of the eastern half of the Nation and Pacific Northwest brought on germination and improved growth of the 1975 winter wheat crop. Moisture is adequate to surplus in most areas of Oklahoma and Texas and condition of wheat was good or better on the already emerged crop.

Heavy rains early in the week halted seeding progress in much of Oklahoma and Texas. Dry conditions still exist in the Northern Plains. Winter wheat seeding was virtually completed in Ohio and Illinois, 95% done in Indiana, and 81% complete in Missouri. Colorado and Wyoming wheat is in generally good condition with 91% emerged in Colorado.

Fall-seeded wheat responded favorably to the recent rains in Washington. Wheat on summer-fallowed land was showing good growth but additional moisture is needed on the dry second-cropped wheat.

CORN: Wet fields and high moisture content slowed corn harvest in many major corn producing States. By November 10th, harvest of the Nation's corn crop was 70% complete, behind the 77% in 1973 but slightly ahead of normal.

The Corn Belt harvest advanced 12 points during the week to 68% complete, compared to 75% in 1973 and 66% normally harvested by the 10th.

Completion of corn harvesting is ahead of normal in all of the Western Corn Belt States but lags in the Eastern Corn Belt. Harvest was virtually complete in South Dakota, 95% in Minnesota and 85% done in Nebraska. The Iowa crop reached 65% harvested, compared with 72% in 1973 and the normal of 57%. Corn in Illinois was 60% harvested versus 80% in 1973 and 70% average. Harvest in the South Atlantic States was 87% complete, while the South Central progress advanced to 79%.

COTTON: Cotton harvest was delayed by rainy weather in much of Texas, Arkansas, and Louisiana. Showers early in the week slowed picking in Alabama, but farmers continued to push harvest when weather permitted and many fields were completed in the South and central areas. Bolls are slow in opening in several major cotton States and more warm, dry weather is needed.

Cotton harvesting in the 11 Southern States advanced 6 points to about 44% complete, behind both last year's progress of 46% complete and the average 50%. The harvest in Texas was only 29% done versus 33% in 1973 and 32% average. Harvest completion for other States: South Carolina 78%, Georgia 73%, Alabama and Louisiana 70%, Mississippi 64%, Tennessee 49%, and Arkansas 45%. The Oklahoma harvest was 3% complete compared with 11% in 1973 and the normal 15%.

In California, picking was very active and the gins were running behind. Rain and frost slowed harvest in New Mexico, while harvest was in full swing in the Yuma, Arizona area.

SOYBEANS: The Nation's soybean harvest advanced 7 points to 77% complete, behind last year's excellent progress of 81%, but continues ahead of the average 75% harvested by November 10th. The Corn Belt harvest was 91% complete, versus 87% normally harvested and 95% completed by the 10th in 1973.

The soybean harvest was over in Minnesota and South Dakota, virtually complete in Ohio and near completion in Illinois with 95% harvested. Combining in Iowa was 97% done and Nebraska had 99% of their crop harvested. In Kansas the soybean harvest was half done while Missouri farmers were nearly two-thirds finished.

In the South soybeans were 50% harvested, a 12-point gain for the week, but trailing both last year and average progress. Harvest was the furthest advanced in Alabama and Louisiana with 70% of the soybean crop combined, and least advanced in Oklahoma with only 12% harvested.

OTHER CROPS: Sorghum grain harvesting was delayed by wet conditions in much of Texas, Kansas, Nebraska, and Oklahoma but harvest resumed in many areas as fields dried. Harvest was 90% complete in Nebraska, 65% in Texas, 40% in Kansas and 36% in Oklahoma. This year's harvesting progress was sharply behind both 1973 and average in most major sorghum States.

Burley tobacco was 5% stripped in Ohio, well behind normal in Kentucky with only 19% complete and 45% in Tennessee versus the normal 60%. The lack of humidity was the delaying factor which also caused stripping and grading problems in Virginia.

Sugarbeet harvest was virtually complete in Ohio and Michigan, approaching the final stage in Idaho, and 95% complete in Colorado.

FRUITS AND NUTS: Pecan harvest was underway in New Mexico, 26% complete in Georgia, and harvest was again delayed in Texas. Walnut harvest was about done in California, as rain slowed tree shaking.

Citrus trees are in good to excellent condition in Florida, but rain is needed in all areas. So far very little leaf curling or fruit softening has occurred and harvest was active. Navel oranges are being picked in California where fruit is maturing rapidly. In Texas the citrus harvest continued on a limited scale as rain and wet groves interrupted picking.

VEGETABLES: Harvesting of Florida vegetables was increasing as more crops reached maturity. Most vegetable areas were dry and irrigation was active in many areas to maintain adequate soil moisture. In California, harvest of artichokes, carrots, and Brussels sprouts continues; broccoli and cauliflower were in good supply; and bell peppers, lettuce, and celery harvests were active.

Wet weather limited vegetable harvest in much of Texas and vegetable seeding was almost at a standstill in the Lower Rio Grande Valley.

PASTURES AND LIVESTOCK: Pastures are short over much of the South Atlantic States and some supplemental feeding is required. Livestock in many areas are grazing on crop residues and fall pastures where available. Wheat pastures in Texas and Oklahoma have good growth but heavy rain in some areas has limited grazing. Recent rain improved range grasses in Wyoming, Texas, Oklahoma, Arizona, and California. Ranchers were busy moving livestock to winter quarters.

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., Nov. 10, 1974

| States and Stations | Temperature °F | | Precipitation Inches | | States and Stations | Temperature °F | | Precipitation Inches | | States and Stations | Temperature °F | | Precipitation Inches | |
|-------------------------|----------------|-----------|----------------------|-----------|-------------------------|----------------|-----------|----------------------|-----------|------------------------|----------------|-----------|----------------------|-----------|
| | Average | Departure | Total | Departure | | Average | Departure | Total | Departure | | Average | Departure | Total | Departure |
| ALA.Birmingham . . . | 55 | 0 | .6 | -.1 | La.Baton Rouge . . . | 61 | 0 | 1.2 | +.4 | Youngstown . . . | 45 | +1 | 1.1 | +.4 |
| Mobile . . . | 62 | +1 | .5 | -.1 | Lake Charles . . . | 59 | -3 | 3.5 | +2.7 | OKLA.Okla. City . . . | 50 | -3 | .5 | +.1 |
| Montgomery . . . | 58 | 0 | .5 | -.2 | New Orleans . . . | 64 | +2 | .9 | +.2 | Tulsa . . . | 48 | -5 | 1.1 | +.6 |
| ALASKA.Anchorage . . . | 26 | +2 | .2 | 0 | Shreveport . . . | 56 | -3 | 2.2 | +1.4 | OREG.Astoria . . . | 48 | 0 | 9.2 | +7.0 |
| Barrow . . . | -10 | -14 | .1 | 0 | MAINE.Caribou . . . | 36 | 0 | .2 | -.6 | Burns . . . | 37 | -2 | T | -.3 |
| Fairbanks . . . | - | - | - | - | Portland . . . | 45 | +3 | 1.0 | -.1 | Medford . . . | 47 | +1 | .5 | -.2 |
| Juneau . . . | 40 | +6 | .7 | -.7 | MD.Baltimore . . . | 56 | +6 | .2 | -.5 | Pendleton . . . | 46 | +2 | .3 | -.1 |
| Kodiak . . . | 35 | -1 | 2.2 | +.9 | MASS.Boston . . . | 51 | +2 | .7 | -.3 | Portland . . . | 50 | +3 | 2.1 | +.9 |
| Nome . . . | 12 | -7 | .3 | 0 | Chatham . . . | 49 | -1 | 1.1 | - | Salem . . . | 49 | +2 | 2.5 | +1.2 |
| ARIZ.Flagstaff . . . | 33 | -6 | .2 | -.1 | MICH.Alpena . . . | 41 | +2 | T | -.6 | PA.Allentown . . . | 52 | +6 | .2 | -.6 |
| Phoenix . . . | 62 | -1 | 0 | -.1 | Detroit . . . | 43 | -1 | .9 | +.3 | Erie . . . | 44 | 0 | 1.2 | +.3 |
| Tucson . . . | 56 | -5 | .8 | +.7 | Flint . . . | 43 | +1 | 1.0 | +.4 | Harrisburg . . . | 54 | +6 | .1 | -.6 |
| Winslow . . . | 43 | -4 | T | -.1 | Grand Rapids . . . | 40 | -2 | 1.0 | +.4 | Philadelphia . . . | 57 | +7 | .1 | -.6 |
| Yuma . . . | 65 | -1 | 0 | -.1 | Houghton Lake . . . | 41 | +3 | .3 | -.3 | Pittsburgh . . . | 49 | +4 | 1.0 | +.4 |
| ARK.Fort Smith . . . | 50 | -3 | 2.3 | +1.5 | Lansing . . . | 42 | 0 | 1.1 | +.5 | Scranton . . . | 50 | +5 | .3 | -.4 |
| Little Rock . . . | 53 | 0 | 2.9 | +2.1 | Marquette . . . | 43 | +5 | .5 | -.2 | R.I.Providence . . . | 50 | +3 | 3 | -.7 |
| CALIF.Bakersfield . . . | 58 | -1 | 0 | -.1 | Muskegon . . . | 42 | -1 | .4 | -.3 | S.C.Charleston . . . | 58 | -1 | .1 | -.4 |
| Eureka . . . | 52 | -1 | 1.1 | -.2 | S. Ste. Marie . . . | 40 | +3 | .2 | -.6 | Columbia . . . | 58 | +1 | .3 | -.2 |
| Fresno . . . | 54 | -2 | T | -.2 | MINN.Duluth . . . | 38 | +5 | .2 | -.2 | Greenville . . . | 54 | 0 | .2 | -.5 |
| Los Angeles . . . | 65 | +1 | 0 | -.4 | Internatl Falls . . . | 37 | +7 | T | -.3 | S.D.Aberdeen . . . | 40 | +4 | 0 | -.1 |
| Red Bluff . . . | 52 | -4 | .7 | +.1 | Minneapolis . . . | 40 | +3 | .3 | 0 | Huron . . . | 41 | +5 | T | -.2 |
| San Diego . . . | 62 | 0 | 0 | -.2 | Rochester . . . | 39 | +2 | .5 | +.2 | Rapid City . . . | 43 | +4 | 0 | -.1 |
| San Francisco . . . | 54 | -3 | .2 | -.2 | St. Cloud . . . | 39 | +4 | .2 | -.1 | Sioux Falls . . . | 41 | +3 | .1 | -.1 |
| Stockton . . . | 53 | -3 | .2 | -.1 | MISS.Jackson . . . | 58 | 0 | .7 | -.1 | TENN.Chattanooga . . . | 51 | -1 | 1.1 | +.3 |
| COLO.Denver . . . | 40 | -2 | T | -.2 | Meridian . . . | 58 | +1 | .3 | -.4 | Knoxville . . . | 55 | +3 | .6 | -.2 |
| Grand Junction . . . | 43 | -1 | .3 | +.2 | MO.Columbia . . . | 43 | -5 | 1.9 | +1.4 | Memphis . . . | 54 | 0 | 2.3 | +1.5 |
| Pueblo . . . | 44 | 0 | T | -.1 | Kansas City . . . | 42 | -6 | .2 | -.2 | Nashville . . . | 51 | 0 | .9 | +.2 |
| CONN.Bridgeport . . . | 53 | +3 | .2 | -.7 | St. Louis . . . | 44 | -5 | 1.9 | +1.3 | TEX.Abilene . . . | 51 | -6 | 1.0 | +.6 |
| Hartford . . . | 48 | +3 | .7 | -.3 | Springfield . . . | 44 | -5 | 1.6 | +1.0 | Amarillo . . . | 48 | -1 | T | -.2 |
| D.C.Washington . . . | 58 | +7 | .2 | -.4 | MONT.Billings . . . | 41 | +2 | T | -.2 | Austin . . . | 56 | -6 | 2.2 | +1.7 |
| FLA.Apalachicola . . . | 66 | +3 | T | -.5 | Glasgow . . . | 40 | +7 | T | -.1 | Beaumont . . . | 58 | -4 | 2.1 | +1.2 |
| Daytona Beach . . . | 69 | +2 | .1 | -.5 | Great Falls . . . | 44 | +6 | 0 | -.2 | Brownsville . . . | 66 | -4 | .2 | -.2 |
| Ft. Myers . . . | 72 | +1 | T | -.4 | Havre . . . | 41 | +7 | T | -.1 | Corpus Christi . . . | 62 | -5 | .5 | +.1 |
| Jacksonville . . . | 64 | 0 | T | -.5 | Helena . . . | 37 | +2 | T | -.1 | Del Rio . . . | 57 | -5 | .5 | +.3 |
| Key West . . . | 77 | +1 | T | -.8 | Kalispell . . . | 35 | +2 | .4 | +.1 | El Paso . . . | 52 | -3 | .5 | +.4 |
| Lakeland . . . | 70 | +1 | T | -.4 | Miles City . . . | 41 | +5 | 0 | -.1 | Fort Worth . . . | 56 | -3 | 2.2 | +1.7 |
| Miami . . . | 73 | -1 | T | -.9 | Missoula . . . | 35 | 0 | .1 | -.1 | Galveston . . . | 61 | -5 | 1.4 | +.7 |
| Orlando . . . | 70 | +1 | .1 | -.3 | NEBR.Grand Island . . . | 42 | 0 | T | -.1 | Houston . . . | 60 | -3 | 3.0 | +2.1 |
| Tallahassee . . . | 60 | -1 | T | -.6 | Lincoln . . . | 42 | -1 | .3 | +.1 | Lubbock . . . | 48 | -4 | .7 | +.5 |
| Tampa . . . | 71 | +2 | T | -.4 | Norfolk . . . | 42 | +1 | T | -.1 | Midland . . . | 53 | -3 | .7 | +.5 |
| W.Palm Beach . . . | 73 | 0 | .2 | -.6 | N.Platte . . . | 39 | -1 | T | -.1 | San Angelo . . . | 54 | -4 | 1.0 | +.8 |
| GA.Atlanta . . . | 57 | +3 | .3 | -.4 | Omaha . . . | 43 | +1 | .6 | +.3 | San Antonio . . . | 56 | -6 | .9 | +.4 |
| Augusta . . . | 57 | +1 | .5 | 0 | Valentine . . . | 40 | +1 | 0 | -.1 | Victoria . . . | 61 | -4 | .9 | +.3 |
| Macon . . . | 59 | +1 | .2 | -.3 | NEV.Ely . . . | 35 | -2 | T | -.1 | Waco . . . | 57 | -3 | 1.1 | +.5 |
| Savannah . . . | 61 | +1 | .1 | -.3 | Las Vegas . . . | 57 | 0 | 0 | -.1 | Wichita Falls . . . | 53 | -3 | .4 | 0 |
| HAWAII.Hilo . . . | 74 | 0 | 2.5 | -.5 | Reno . . . | 40 | -3 | T | -.1 | UTAH.Blanding . . . | 40 | -1 | .4 | +.2 |
| Honolulu . . . | 79 | +2 | .4 | -.2 | Winnemucca . . . | 40 | 0 | .1 | -.1 | Salt Lake City . . . | 44 | +2 | T | -.3 |
| Kahului . . . | - | - | - | - | N.H.Concord . . . | 42 | 0 | 1.0 | +.1 | VT.Burlington . . . | 40 | -1 | .5 | -.2 |
| Lihue . . . | - | - | - | - | N.J.Atlantic City . . . | 55 | +5 | .1 | -.9 | VA.Lynchburg . . . | 54 | +4 | .1 | -.5 |
| IDAHO.Boise . . . | 44 | +1 | .3 | 0 | Trenton . . . | 57 | +7 | .1 | -.6 | Norfolk . . . | 61 | +6 | T | -.7 |
| Lewiston . . . | 43 | 0 | .3 | 0 | N.MEX.Albuquerque . . . | 46 | -2 | .3 | +.2 | Richmond . . . | 58 | +6 | T | -.7 |
| Pocatello . . . | 39 | 0 | .2 | 0 | Roswell . . . | 47 | -3 | T | -.1 | Roanoke . . . | 54 | +4 | .2 | -.4 |
| ILL.Cairo . . . | 51 | -1 | 1.7 | +.9 | N.Y.Albany . . . | 44 | 0 | 1.1 | +.5 | WASH.Colville . . . | 39 | +2 | 1.3 | +.9 |
| Chicago . . . | 45 | 0 | 1.2 | +.6 | Binghamton . . . | 43 | 0 | .9 | +.2 | Omak . . . | 40 | +3 | .5 | +.1 |
| Moline . . . | 43 | 0 | .9 | +.4 | Buffalo . . . | 43 | -1 | .7 | -.2 | Quillayute . . . | 46 | +1 | 3.1 | 0 |
| Peoria . . . | 43 | -1 | 1.7 | +1.2 | New York . . . | 55 | +4 | .1 | -.7 | Seattle-Tacoma . . . | 47 | +1 | 1.3 | 0 |
| Rockford . . . | 42 | 0 | 1.2 | +.6 | Rochester . . . | 43 | -2 | .6 | -.1 | Spokane . . . | 37 | -1 | .9 | +.4 |
| Springfield . . . | 45 | -1 | 1.7 | +1.2 | Syracuse . . . | 44 | -1 | 1.1 | +.3 | Walla Walla . . . | 46 | +1 | .6 | +.2 |
| IND.Evansville . . . | 49 | +1 | 1.8 | +1.1 | N.C.Asheville . . . | 53 | +4 | .1 | -.6 | Yakima . . . | 43 | +2 | .1 | -.1 |
| Ft. Wayne . . . | 44 | 0 | 1.0 | +.4 | Charlotte . . . | 55 | +1 | T | -.6 | W.Va.Beckley . . . | 47 | +2 | .4 | -.2 |
| Indianapolis . . . | 45 | -1 | 1.2 | +.5 | Greensboro . . . | 56 | +4 | T | -.6 | Charleston . . . | 49 | 0 | .7 | +.1 |
| South Bend . . . | 46 | +3 | 1.1 | +.6 | Hatteras . . . | 63 | +4 | .1 | -.9 | Huntington . . . | 49 | 0 | .5 | -.1 |
| IOWA.Burlington . . . | 43 | -1 | 1.0 | +.6 | Raleigh . . . | 55 | +2 | T | -.6 | Parkersburg . . . | 50 | +2 | .4 | -.2 |
| Des Moines . . . | 43 | +1 | .5 | +.1 | Wilmington . . . | 60 | +1 | .1 | -.6 | WIS.Green Bay . . . | 38 | 0 | 1.1 | +.7 |
| Dubuque . . . | 40 | 0 | .8 | +.2 | N.DAK.Bismarck . . . | 38 | +4 | 0 | -.1 | La Crosse . . . | 43 | +3 | .7 | +.3 |
| Sioux City . . . | 41 | 0 | T | -.7 | Fargo . . . | 37 | +2 | 0 | -.2 | Madison . . . | 41 | +2 | 1.0 | +.6 |
| KANS.Concordia . . . | 44 | -2 | .4 | +.2 | Williston . . . | 39 | +6 | 0 | -.1 | Milwaukee . . . | 42 | +1 | 1.1 | +.6 |
| Dodge City . . . | 47 | 0 | .1 | -.1 | OHIO.Akron-Canton . . . | 47 | +2 | 1.2 | +.6 | WYO.Casper . . . | 39 | +2 | T | -.2 |
| Goodland . . . | 39 | -3 | T | -.1 | Cincinnati . . . | 47 | -1 | .7 | 0 | Cheyenne . . . | 38 | 0 | .1 | 0 |
| Topeka . . . | 44 | -3 | .7 | +.4 | Cleveland . . . | 45 | -1 | 1.1 | +.5 | Lander . . . | 36 | +1 | 0 | -.2 |
| Wichita . . . | 46 | -3 | .8 | +.5 | Columbus . . . | 48 | +2 | 1.1 | +.5 | Sheridan . . . | 38 | +1 | T | -.2 |
| KY.Lexington . . . | 48 | 0 | .1 | -.6 | Dayton . . . | 47 | +1 | 1.0 | +.4 | P.R.San Juan . . . | 80 | +1 | 1.5 | +.2 |
| Louisville . . . | 49 | +1 | .5 | -.2 | Toledo . . . | 43 | -1 | 1.4 | +.9 | | | | | |

Based on 1941 - 70 normals

CONDENSED STATE SUMMARIES

The Bulletin capsulizes nationally important weather and crop conditions. Every Monday SRS publishes more detailed data in State Weekly Weather and Crop Bulletins in cooperation with the National Weather Service, NOAA. Voluntary weather observers, crop reporters, and county extension agents contribute weekly observations for these reports.

ALABAMA: Temperatures averaged 1° above normal. Rainfall accumulations greatest northern half, ranging from 0.75 to near 1.00 in.

Row crop harvest extremely active latter part of week. Showers delayed fieldwork early in period but provided needed moisture. Farmers continued to push cotton harvest which was 70% complete compared with 55% year earlier. Harvest complete many fields south and central. Corn harvest 84% complete, 75% in 1973. Soybean growers have harvested 70% expected production, 57% 1973. Seeding of small grains 82% complete. General rain needed to boost growth of young seedlings and bring latest plantings up to stand. Moisture also needed to enable farmers to finish planting additional acreage, much of which will follow soybeans. Grazing on decline many pastures as grass becoming seasonally short and tough. Few cattlemen feeding hay.

ARIZONA: Scattered showers most State 8th and 9th, otherwise dry. Temperatures 5 to 12° below normal beginning week, near normal late week.

Cotton harvest full swing Yuma, increasing other areas. Sorghum harvest continued Yuma, increasing other areas. Sugarbeets good growth central, western, harvest Cochise County. Lettuce harvest near completion Cochise County, beginning Pima County, soon get underway Yuma County. Lettuce, cabbage, broccoli good progress Yuma. Mixed vegetables harvest Maricopa County. Lemons, Navel oranges, Algerian tangerines, Orlando tangelos, Ruby grapefruit picking Salt River Valley. Lemon, grapefruit harvest Yuma. Cattle, sheep good condition. Fall rains improved feed, water supplies.

ARKANSAS: Temperatures 1 to 6° below normal. Extremes: 75 and 28°. Rainfall early week and weekend; heaviest northwestern third.

Rain slowed harvest operations. Soil moisture surplus. Cotton picking slow, many green bolls unopened. Defoliation a problem, much regrowth, 83% bolls open, 97% a year ago. Harvest 45% complete, 68% 1973. Rice harvest 96% complete. Soybean harvest 35% complete, 11 points behind 1973. Most varieties mature, but small beans. Large acreages of wheat seeded. Small grains making good growth. Corn and sorghum harvest almost complete. Hay harvesting ended. Pastures providing ample forage. Cattle doing well.

CALIFORNIA: Period began with fair weather except some night, morning low cloudiness, coastal sections. Storm moved through State latter part period bringing precipitation to north portion 6th southward across central portion 7th with showers Sierra Nevada 8th. Over 1.00 in. fell sections North Coast, Sacramento Valley, and northern mountains. Amounts central portion generally light. Average temperatures slightly below normal nearly all areas.

Rain midweek again stopped field work Sacramento Valley. Damp weather slowing harvest San Joaquin Valley. Planting small grain active as weather permits. Early plantings emerged. Milo harvest active but moisture content high. Rice harvest almost complete. Cotton picking very active, gins running behind. Some cotton picked still in field.

Wine grape harvest slowing, most activity south half. Walnut harvest about complete, rain again slowed shaking. Limited amount apples to pick. Date harvest continues, good quality. Good avocado crop expected, early harvesting made light start, wind caused some immature drop Santa Barbara. Early Navel oranges being picked, fruit maturing rapidly. Shortage of lemon pickers Santa Barbara.

Artichoke harvest continues, broccoli, cauliflower good supply central coast. Brussels sprouts continue quality variable. Carrots continue San Joaquin. Cantaloup, honeydew light Imperial Valley. Celery, lettuce, bell peppers active.

Feed conditions improving new grass developing. Still need supplemental feed. Lambing, calving continuing some losses predatory animals. Bee colonies entering overwinter stage in good condition. Sheep in Southern Desert increasing as feeder lambs, ewes arriving. Cattle feedlots continue operate with reduced numbers. Movement mature turkeys to processing continue. Stock water supplies adequate.

COLORADO: Snow ended east early Monday. Light rain and drizzle portions east and lower elevations west. Mountains 2.00 to 4.00 in. snow. Temperatures below normal most areas, normal northwest.

Moisture weekend November 2d slowed harvest. Corn grain 78% harvested, 5-year average 50%. Sugarbeets 95% harvested, average 75%. Sorghum grain 41% combined, remainder crop ripe. Winter wheat seeding virtually complete, 91% emerged. Winter barley seeding complete, 93% emerged. Emergence slow, few stands poor northeast. Fall seeded grains generally good condition. Supplemental feeding livestock increasing, range forage limited. Livestock generally good condition.

FLORIDA: Variable cloudiness and near normal temperatures. Rainfall generally light panhandle, east coast. Soil moisture generally short to very short.

Harvest virtually complete corn and peanuts, active soybeans, cotton, just beginning sugarcane. Small grains poor to fair condition, need rain. Planting of grains slowed due to lack of moisture. Pasture mostly poor. Cattle and calves fair to good condition. Citrus tree condition good to excellent, rain needed all areas. Some irrigation being applied. Very little leaf curl or fruit softening, harvest active. Vegetable areas dry, irrigation active in many areas to maintain adequate soil moisture. Vegetable crops generally in good condition. Harvest increasing as more crops reach maturity. Sweet corn, beans, cukes, eggplant, and radishes moving in good volume. Celery, peppers, lettuce and leaf crops moderate volume. Tomatoes light but steady volume.

GEORGIA: Temperatures above normal, ranging from 3° above southeast to 10° above northwest. Precipitation ranged from around 0.10 in. south to between 0.75 and 1.00 in. north.

Rain at last, but more needed. Parched pasture acreages and fall seeded crops suffering from lack of adequate moisture. Most areas, especially south, still short to very short supplies at week-end. Small grains 59% seeded. Corn harvest 81% completed. Cotton 73% harvested, good yields

many areas. Soybean harvest 57% complete. Peanut harvest completed, record yields many areas. Pecans mostly fair, 26% harvested. Hay harvest continued.

HAWAII: Showers frequent in eastern section of the Islands.

Pastures and cane crop in previously dry areas benefited by increased shower activity. Strong winds caused bruising to crops in exposed areas but damage was generally light. Supply of vegetables adequate; banana and papaya production expected to decrease gradually. Grass growth in pastures improving with increased moisture. Cattle condition fair to good. Sugarcane harvesting nearing end of season some plantations. Supply of pineapples light.

IDAHO: Temperatures near seasonal normal, averaging in upper 30's and 40's. A continuing series of fronts from Pacific Northwest moving south and east brought morning fog, cloudiness, and rains to valleys with scattered light snow above 5,000 ft. end of period. Some north and central mountain areas received near 1.00 in. of much needed precipitation.

Sugarbeet harvest approaching final stages. Rains slowed completion of potato harvest on few remaining fields. Fall land preparation, seeding fall grains continues. Germination and early development winter grains improved with rains. Livestock moving into winter quarters. Cattle auctions active. Range and pasture forage short, but rains bringing some regrowth.

ILLINOIS: Temperature normal northern third, 1 to 5° below normal elsewhere. Precipitation moderate to heavy, amounts 0.75 to 2.00 in.

Corn harvest 60% complete, 80% 1973, 1971-73 average 70%. High moisture, poor quality problems with late-planted corn. Soybean harvest 95% complete, 98% 1973, average 92%. Rains delayed completion some areas. Grain sorghum harvest 50% complete. Winter wheat seedings good to excellent condition. Plowing 1975 corn and soybean acreage 35% complete, 40% 1973, average 37%. Fertilizer supplies generally adequate some distribution problems. Pastures supplying 55% roughage requirements. Soil moisture 13% short, 55% adequate, 32% surplus. Fieldwork: 4.0 days suitable.

INDIANA: Showers early and late in period. Rainfall 2.00 in. southwest, 1.00 in. west central, 1.40 in. elsewhere. Temperatures slightly above normal. Extremes: 26° Culver on 9th, 68° Versailles on 8th.

Fieldwork averaged 3 days. Topsoil and subsoil moisture mostly adequate to surplus. Corn 45% harvested, 69% average, 70% in 1973. Quality hurt, harvest slowed by high moisture. Soybeans 90% combined, 95% in 1973, 50% in 1972. Wheat 95% seeded, 85% emerged, stands mostly good. Land for spring seeding 25% plowed, 30% in 1973.

IOWA: Temperatures and precipitation both above normal. Light rain and snow on 5th, midweek sunny and mild, rain weekend.

Good weekday weather followed by general weekend rains. Days suitable for fieldwork 4.4, average 4.4 days. Soybean harvest finished in most areas with feed grain harvests continuing rapidly. Fall plowing continues and is ahead of normal progress. Fall fertilizer plowdown greater than normal as a result of price and availability uncertainties. Corn harvest 65% complete, average 57%. Soybean harvest 97% complete, average 87%. Grain sorghum harvest 80% complete, average 73% and

popcorn harvest 87% complete. Fall plowing 35% complete. Topsoil moisture 17% short, 82% adequate, 1% surplus, prior to weekend rains.

KANSAS: Temperatures averaged nearly normal west slightly below east. Hard freeze most sections on 6th. Precipitation from 0.25 in. west to 4.00 in. or more southeast. Heavy rains southeast caused local flooding.

Fall crop harvest progressed very slowly due general rains. Drying weather needed to move harvest ahead. Sorghum grain harvest 40% complete, 70% 1973, 75% average. Corn 80% harvested, 55% 1973, 75% average. Soybeans 50% harvested, 75% 1973, 85% average. Sugarbeet harvest virtually completed. Wheat condition improved. Stands evened up in areas previously spotty. Limited reseeding necessary local areas. Movement of cattle off native pastures to stalk and wheat fields slow due wet fields. Some supplemental feeding on native pastures.

KENTUCKY: Averaged temperature 5 to 8° above normal with showers first half and in the west again at end of week. Rainfall totals as much as 1.50 in. west and southeast.

Rain slowed corn and soybean harvest. Four days suitable for fieldwork. Topsoil moisture adequate. Corn 78% harvested, 83% 1973. Soybeans 65% harvested, 82% 1973. Burley tobacco 19% stripped, well behind normal. Fall wheat and barley mostly seeded and emerged grain good condition. Pastures excellent.

LOUISIANA: Temperatures slightly below normal north up to 2° above normal southeast. Extremes: 83° Bossalusa, Hammond, and Houma on 4th; 38° Homer and Ashland on 4th. Precipitation 1.00 to 3.00 in. statewide. Greatest 1-day total 1.96 in. Diamond on 6th.

Rain delayed harvest north. Fieldwork possible 3.8 days. Soil moisture mostly surplus north, mostly adequate elsewhere. Main activities were sugarcane, cotton and soybean harvest, land leveling, and stalk shredding. Cotton harvest little progress, 70% picked compared with 40% 1973 and normal 60%. Yields disappointing. Boll rot and bud worms took heavy toll. Soybean harvest 75% complete, 52% 1973, normal 70%. High moisture delayed harvest. Yields good. Sugarcane harvest 33% complete, about normal. Sucrose and purity continue good. Cane light due to dry weather. Sweetpotatoes 95% harvested, good yields and quality. Cultivation of winter vegetables active New Orleans area. Light harvest cabbage and shallots. Small grain seeding little progress, stands fair to good. Pastures improved slightly. Cattle fair to good, marketing light.

MARYLAND AND DELAWARE: Temperatures 8 to 12° above normal. Highs upper 70's to mid 80's except 69° Garrett County. Lows in low 30's to low 40's. Precipitation all areas, trace to over 0.75 in. Heaviest northcentral Maryland and northern Delaware.

Rain interrupted fieldwork northern areas on the 5th. Good progress remaining harvest. Moisture welcome for fall seedings and pastures. Most areas still dry.

MICHIGAN: Temperatures averaged near normal south to 4° above extreme north. Precipitation totals ranged from around 1.00 in. southern lower to 0.30 in. or less eastern upper and northern lower peninsula.

Corn harvest slow. Rain and warm weather improved winter wheat. Soil moisture adequate to

surplus east central and southwest, mostly adequate elsewhere. Fieldwork: 4.0 days suitable. Grain corn 50% harvested, 81% 1973, average 60%. Soybeans 94% harvested, average 73%. Sugarbeet harvest almost finished. Plowing for spring crops over 30% complete. Pasture feed average to short. Apple and vegetable harvest about finished.

MINNESOTA: Temperatures 3 to 6° above normal. Extremes: lower 60's to upper teens. Precipitation 0.30 to 0.60 in. southeast third with traces to 0.20 in. elsewhere. Minor snowfall in north early week melted.

Corn harvest essentially completed in all areas except southeast. Recent rains partly relieved short moisture reserves and have improved plowing conditions. Corn picking, combining 95% completed, 1973 88%, average 74%; moisture content of corn grain 19%, 1973 20%, average 24%. Soil moisture continues short to adequate.

MISSISSIPPI: Temperatures averaged 3° above normal. Extremes: 85 and 31°. Widespread rain 4th and 8th. Rainfall peak for 24-hour period 2.44 in.

Soil moisture adequate. Fieldwork: 4.0 days suitable. Cotton 36% bolls open but not harvested, 64% harvested, normal 71% harvested. Soybeans 6% shedding but not mature, 36% mature but not harvested, 56% harvested, normal 59% harvested. Cotton in poor to fair condition. Soybeans, corn, pastures, and livestock in fair to good condition.

MISSOURI: Weather wet and cool. Rainfall mostly over 2.00 in., except northwest. Temperatures generally few degrees below normal with frost or freezing temperatures midweek.

Fieldwork: 2 days suitable. Soil moisture adequate to surplus. Corn 67% harvested, 58% 1973, 62% average. Grain sorghum 58% harvested, 68% average. Soybeans 64% harvested, 78% 1973, 69% average. Cotton 52% harvested, 70% 1973. Fall seeding 81% completed, 74% 1973 and average. Fall plowing 38% completed, 41% average. Pastures fair to good condition.

MONTANA: Temperatures slightly above normal; highest maximums midweek in 50's and lower 60's. Precipitation generally spotty, below normal except western division where 0.33 in.

Warm temperatures helping fall tillage operations. Livestock grazing open with crop residues and fall pastures providing forage. Livestock marketing active.

NEBRASKA: Temperatures near normal. Precipitation 0.50 in. in southeast, south central, trace over north and west, 0.25 in. in Panhandle.

Fieldwork: 5.4 days. Topsoil moisture supplies short 59%. Subsoil moisture supplies short 97%. Corn 85% harvested, normal 70%, 65% 1973. Sorghum 90% harvested, normal 80%, 1973 95%. Soybean harvest practically complete, same as 1973, normal 90%. Wheat condition showed improvement, 16% poor, 64% fair, 19% good, 18% excellent. Range and pasture feed supplies short 84%. Culling of cows continuing.

NEVADA: Dry until 8th when active storm system brought rainfall most areas except extreme south. Rainfall generally light and ranged from zero to 0.34 in. which fell at Austin. Temperatures ranged from 2 to 4° below normal north and central, 1 to 2° above in extreme south.

Seeding winter grains about completed. Cotton harvest gaining momentum Pahrome Valley. Cattle and sheep fair to good condition.

NEW ENGLAND: Rain November 4th and 5th. Cool, dry midweek over most of New England. Highs to 70° Boston, Hartford. Rain November 8th and 9th to 1.52 in. south. Trace of snow in higher elevations.

NEW JERSEY: A mild dry week. Divisional temperature averages were: north 47.5°, south 50.8° and coastal 53.1°, which were 1.5 to 3.5° above normal. Extremes: 80° at Pamona and Glassboro on 4th and 21° at Newton on 11th. Weekly rainfall averaged 0.20 in. for all 3 divisions.

Light volumes of lettuce, spinach and other hardy "greens" moving. Weather conditions favorable for harvest of soybeans and corn for grain. Fall sown grains and cover crops growing nicely.

NEW MEXICO: Temperatures 2 to 6° cooler than normal. General showers with snow mountains 8th and 9th. Moisture totals generally less than 0.10 in.

Moisture adequate, some surplus. Sorghum, cotton, hay harvests slowed by rains and frosts. Cotton poor to fair, harvest 10%. Alfalfa fair, growers finishing season with hay in windrows. Sorghum irrigated fair, 30% harvested; dry poor, 5% harvested. Winter wheat, barley good. Peanut harvest delayed wet fields. Lettuce good, harvest 95% done. Pecan harvest starting, activity increase expected next week. Livestock, range fair to good.

NEW YORK: Temperatures averaged near to above normal. Rainfall averaged near to above normal except for light amounts in extreme northern and coastal southeastern sections. The important part of the week's rain fell on 4th and 5th. Light amounts fell on the 6th and in southcentral sections on the 7th. Mild air covered the southeast on the 4th resulting in the weekly high of 74° at New York City. Otherwise moderate temperatures with small daily range occurred through midweek. Seasonable weather occurred during the weekend although low cloudiness and fog held daytime temperatures below their potential in some areas. The 22° reading at Messina and Watertown on the 8th was the weekly low.

NORTH CAROLINA: Week began with record breaking warm temperatures but returned to normal late in week. Continued dry with generally less than 0.10 in. precipitation.

Soil moisture mostly short. Small grains condition fair to good. Pasture condition fair. Fieldwork averaged 4.9 days. Corn 89% harvested, 1973 90%, average 70%. Soybeans 40% harvested, 1973 48%. Cotton harvest 58% complete, 1973 73%, average 61%. Sorghum grain 78% combined, 1973 80%. Lespedeza seed harvest about 80% complete, 1973 77%. Small grains 63% planted, 1973 61%, average 67%.

NORTH DAKOTA: Temperatures above normal. Extremes: 64° Lemmon, 9° McHenry. Precipitation generally below normal except central. Most precipitation for week at McHenry with 0.43 in. which consisted of 3.00 in. snow on 2d.

Warm, dry conditions at week's end helped corn and sunflower harvest. Livestock being moved to winter quarters and feed supplies being readied for winter. Some late fall fertilizer being applied.

OHIO: Rainfall across State 4th and 5th. Greatest amount 1.43 in. Toledo, least 0.37 in. Zanesville. Temperatures remain above normal. Range: high 77° south, low 26° northwest.

Corn harvest slowed by rain, high moisture content. Corn 65% harvested, 80% 1973 and 75% normal. Sugarbeets virtually all lifted, 75% normal. Pop-corn 85% harvested. Winter wheat stand mostly good with improved germination due to rainfall. Tobacco 5% stripped. Fertilizer supplies available for current use, indicated short by half of reporters. Soil moisture supplies best since late May, 18% surplus, 76% adequate and 6% short. Fieldwork: Over 4 days favorable.

OKLAHOMA: Temperatures averaged from 4° subnormal panhandle and north central to 2° above normal southeast. Precipitation averaged from 0.60 in. panhandle to 5.21 in. northeast.

Excessive rains November 3d and 4th brought fieldwork to a near standstill. Small grain seeding progress halted, considerable replanting indicated north central and northeast areas. Wheat condition mostly good or better. Sorghums 36% harvested, 58% 1973. Best progress Panhandle. Cotton harvest slow, 3% picked, 89% bolls open. Harvest year ago 11%, average 15%. Some rot and quality loss. Peanut harvest made some progress, now 62% complete. Rains causing loss quality and quantity. Topsoil moisture surplus 70% of State. Ranges mostly good, cattle good to excellent.

OREGON: First substantial fall rain west. Rainfall coast ranged from 1.60 to 4.00 in. Willamette Valley 1.79 to 2.54 in., southwest interior valleys 0.25 to 0.80 in., east 0.25 in. or less. Temperatures near normal. Highs ranged from upper 50's to 60's. Lows 30's west, teens in east.

Fall seeding and land preparation continuing. East needs more rain for fall grain. Potato, vegetable and nut harvests are winding up. Ranges and pastures very dry. Livestock in good condition. Winter feed supplies are adequate.

PENNSYLVANIA: Mild and wet first half, cooler and dry last half of week. Slow moving cold front brought 0.50 to 1.50 in. rainfall to western and northern counties, but only light amounts south east. Record breaking highs for date on afternoon of 4th. Temperatures averaged 4 to 8° above normal. Extremes: 81 and 27°.

Farmers are finishing fall harvests and ground preparation.

PUERTO RICO: Island average rainfall 3.81 or 2.30 in. above normal. Some local flooding low-lying areas south coast. Temperatures averaged mid-70's on coasts and low 70% interior. Extremes: 95 and 58°.

Field operations at sugarcane plantations interrupted by heavy rainshowers. Coffee harvest delayed due poor condition of roads damaged by heavy shower activity. Ripe coffee beans falling from trees due to rains. Tobacco harvest interrupted by heavy rains that have caused some damage to plantings. Pastures in good condition islandwide. Heavy rains slowed harvest of food crop and excessive humidity causing some damage to plantations.

SOUTH CAROLINA: Temperatures averaged 2 to 8° above normal. Rainfall on 5th was first significant precipitation in a month for some sections. Heavy frost inland areas early 9th.

Rainfall not enough to relieve soil moisture shortages. Good harvest progress. Cotton 78% harvested, 77% 1973, 77% 5-year average. Soybeans 42% harvested, 38% 1973, 22% average. Marketing delays reported because storage limitation and transportation shortages. Sorghums 73% harvested, 54% 1973,

58% average. Tobacco bed preparation active Pee Dee area. Pasture condition below poor. Small grain planting slowed significantly. Wheat 31% planted, 40% 1973, 37% average. Oats 49% planted, 58% 1973, 50% average.

SOUTH DAKOTA: Limited precipitation fell in southeast counties, 0.10 in. or less. Temperatures averaged 3 to 9° above normal. Extremes: 72° Philip on 8th, 13° Leola on 6th.

Dry conditions continue. Corn harvest essentially complete.

TENNESSEE: General rain throughout early in week, dry remainder. Temperatures near normal west and central, above normal east.

Soil conditions quite dry in east to moderately wet west. Corn and soybean harvest 75 and 50% completed. Both same as 1973 and normal. Cotton 49% harvested, 66% 1973, 62% average. Bolls extremely slow opening. Warm, dry weather needed. Wheat germinated well, good condition. Burley tobacco stripping 45% completed, normal and 1973 60%. Lack of humidity delaying factor.

TEXAS: Cool, cloudy weather. Temperatures 4 to 8° below normal except near normal Panhandle. Near normal rainfall west, far south; above normal rainfall eastern half.

Wet weather dominated past week, stopped planting, harvesting activities. Moisture adequate to surplus most areas. Wheat, oats stands excellent growth, grazing restricted some localities because muddy fields. Harvest cotton, corn, sorghum, soybeans, peanuts generally behind 1973 schedule. Light harvest corn, sorghum, peanuts resumed toward end of week some localities. Major crops percent planted: Wheat 93, 1973 95, average 96; oats 92, 1973 92, average 88. Major crops percent harvested: Cotton 29, 1973 33, average 32; corn 80, 1973 97, average 98; sorghum 65, 1973 93, average 86; soybeans 44, 1973 46, average 50; peanuts 61, 1973 82, average 81; sugarbeets 35, 1973 79, average 54.

High Plains: Wet weather continues delay completion vegetable harvest. Trans-Pecos: Bell pepper harvest complete Reeves County, tomato picking hampered by cool, wet weather Hudspeth County. East: Majority sweetpotato crop harvested, some potatoes souring in field, as result excessive rainfall. Coastal Bend: Cucumber harvest in full swing. San Antonio-Winter Garden: Eggplant, cucumbers, bell peppers, squash being harvested. Early fields cabbage being cut. Lower Rio Grande Valley: Vegetable seeding almost at standstill because of wet fields. Cabbage, peppers, cucumbers making good growth. Harvest early cabbage got underway during week. Pecan harvest continues to be delayed by rains. Citrus harvest continued on limited scale as rains, wet groves interrupted picking. Most fruit sizing extremely well.

Wheat, oats excellent growth throughout furnishing moderate grazing High and Low Plains. Blacklands, East fields ready to graze but ground too wet. Adequate to surplus moisture insured good grazing through early winter. Growth rates slow because cool weather. New cases screwworms in southern part. Some ranchers winter feeding livestock. Livestock condition good to excellent.

UTAH: Precipitation fell early in week with scattered areas principally south portion latter part of period. Accumulated amounts of moisture generally moderate but locally heavy few locations. Average temperatures near normal north central and northeast, but 2 to 6° below normal elsewhere.

Harvest of corn for grain and sugarbeets, the last crops to be harvested progressed rapidly in most farming areas. Grading, sorting and marketing of potatoes, dry onions and apples in progress. Breeding of ewes on fall and winter range also in progress.

VIRGINIA: Record breaking high temperatures early in period. Light showers on 5th and 6th. Seasonal temperatures returning on weekend. Extremes: 87 and 27°.

Fieldwork: 5.9 days favorable. Topsoil moisture 92% short, 8% adequate. Dry fields, pastures, woodlands fire hazard. Corn for grain harvest 77%, 1973 84%. Soybean harvest 66%, 1973 74%. Cotton harvest 40% complete. Wheat seeding 73% complete, 1973 84%. Drought slowed all seeding progress. Pasture condition 77%, 1973 90%. Some hay feeding necessary. Hay may be in short supply north and west. Flue-cured tobacco sales nearing end. Strip-ping, grading other types tobacco difficult. Dry burley markets open November 25th. Fall land preparation increased as crop harvest ending.

WASHINGTON: West: Average temperatures near normal. Extremes: 50's, 30's. Precipitation throughout week with total amounts from 0.20 in. to over 2.00 in.

Harvesting Christmas trees, English holly, fall spinach, celery, carrots, potatoes. Some raspberry fields being caned out and tied. Caneberry fields being pruned. Fall pasture seedings, fall seeded wheat, and vegetable seed crops have responded favorably to recent rains. Livestock on winter rations or fall seeded pastures. Some dairymen green chopping. Range and pasture supplies adequate to short. East: Average north half one degree subnormal, elsewhere slightly above normal. Extremes: 40's, 20's. Rainfall varied from 0.10 to 1.00 in.

Harvesting sugarbeets, late potatoes. Winter wheat and winter cover crops being seeded following sugarbeet and potato harvests. Sprouting beginning on fall seeded winter wheat in dry recrop soils. Additional moisture needed to prevent stress. Winter wheat on summerfallow showing good but spotty growth. Greenbugs of concern. Fruit growers busy with fall cleanup; rodent control, sprinkler and overtree wind machine installation and pruning. Livestock in good shape and on winter feed or pasture.

WEST VIRGINIA: Temperature above normal with cooling trend. Rainfall above normal except south and eastern Panhandle below normal.

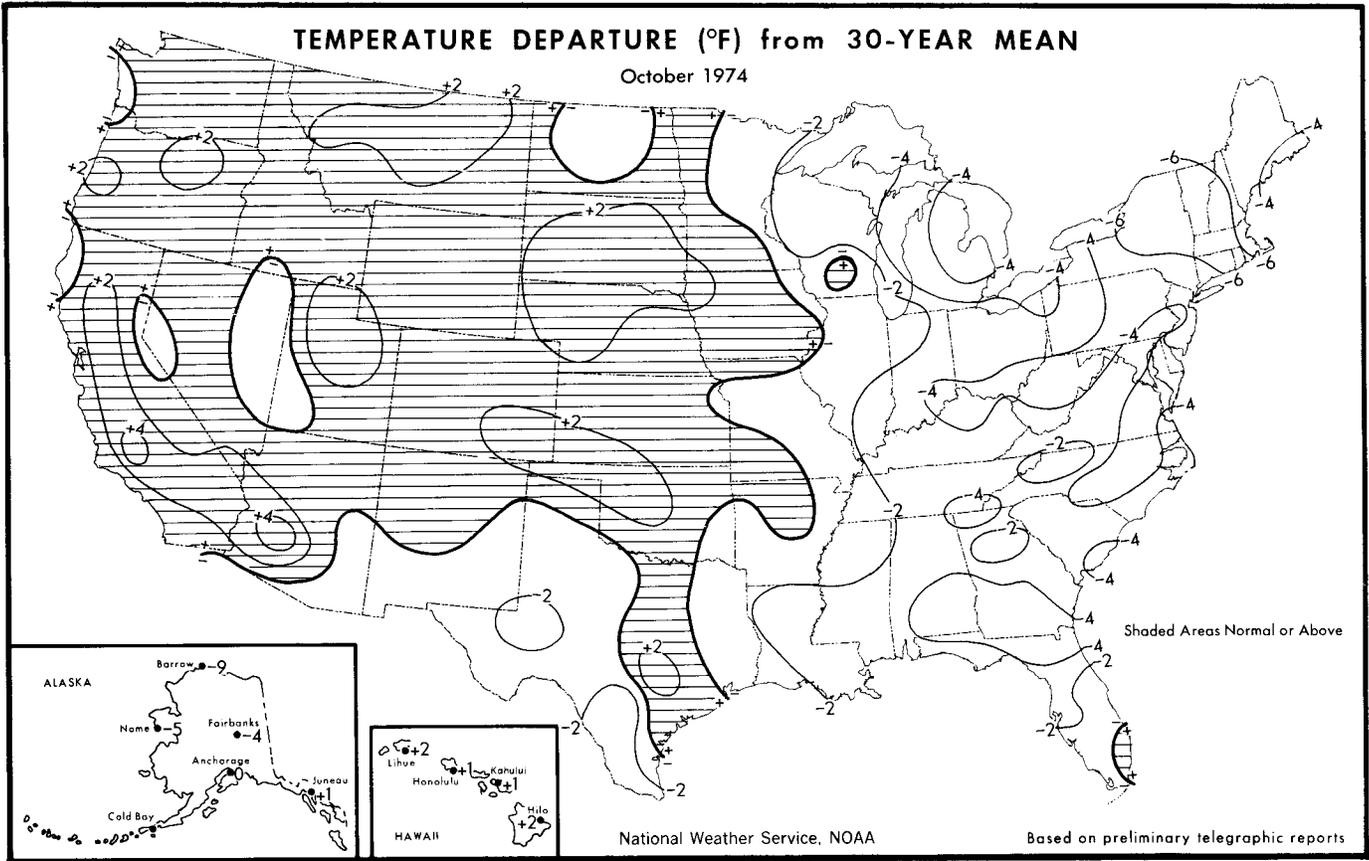
Soil moisture 56% adequate, 38% short, 6% surplus. Fieldwork suitable 5.0 days. Rains helped fall sown grains but slowed harvesting of high moisture corn for grain. Very little pasture growth, most cattle being fed hay. Many live-stock producers wintering as many cattle as their hay supply will allow.

WISCONSIN: Temperatures averaged 2 degrees above normal. Light and widely scattered showers early week; general and heavier rains 10th, with amounts exceeding 1:00 in. except western part.

Corn for grain harvest advanced to 55% completion, 1973 80%, 1968-73 average 65%. Moisture in corn highest since 1965. South still has over half of corn to pick, other areas further along due to less acreage for grain. Late plantings, below normal growing degree days, dry weather, and early frosts hurt corn quantity and quality. Corn stalks being chopped for feed and bedding. Soybeans 90% harvested, 1973 95%, 1968-73 65%. Fall plowing 55% done, 1973 65%. 1968-73 60%. Recent rains have improved fall plowing conditions. Winter grains and new seedings benefitted from mild temperatures and moisture of past three weeks, but growth less than usual due to earlier dryness. Soil moisture 33% short, 65% adequate, and 2% surplus prior to weekend rain. Harvest of most crops except corn is completed. Farmers taking advantage of good fall weather to catch up on outside work and get ready for winter.

WYOMING: Precipitation averaged slightly below normal. Greatest amounts Green and Bear drainages and Lower Platte drainage where 0.10 to 0.20 in. generally fell. Temperatures slightly below normal with greatest departure southeast. Highs from 30's to 60's, from low teens west to low 20's east.

Picking corn for grain continued. Last fields sugarbeets dug. Winter wheat good condition. Ranchers continued working, marketing livestock. Recent moisture improved palatability range grasses. Livestock condition good.



OCTOBER WEATHER SUMMARY

HIGHLIGHTS: Rainfall was highly variable during the month with some normally dry areas very wet and some usually wet areas very dry. Twice the normal rainfall hit Texas, Oklahoma, and much of the Desert Southwest. Amounts totaled 4.00 in. or more as far north as Iowa, helping to replenish soil moisture reserves but causing extensive flooding in some areas.

Generally from the Mississippi River eastward, precipitation was below normal with much of the Southeast less than 20 percent of normal as rainfall amounts were less than 0.50 in.

Temperatures were generally slightly above normal west of the Mississippi, but considerably below normal in the Eastern United States with the greatest departures in the New England area where they averaged 4 to 7° below normal.

PRECIPITATION: Precipitation was generally light during most of the month with the heaviest amounts falling during the last few days.

During the first week, little or no precipitation fell from Texas through Pennsylvania, with the exception of Florida. A stationary low in the Bahamas produced 1.00 to 2.00 in. of rain along the east coast of Florida. In the North Central United States, cool air moving southward collided with warm moist air from the Gulf triggering scattered showers with rains totaling up

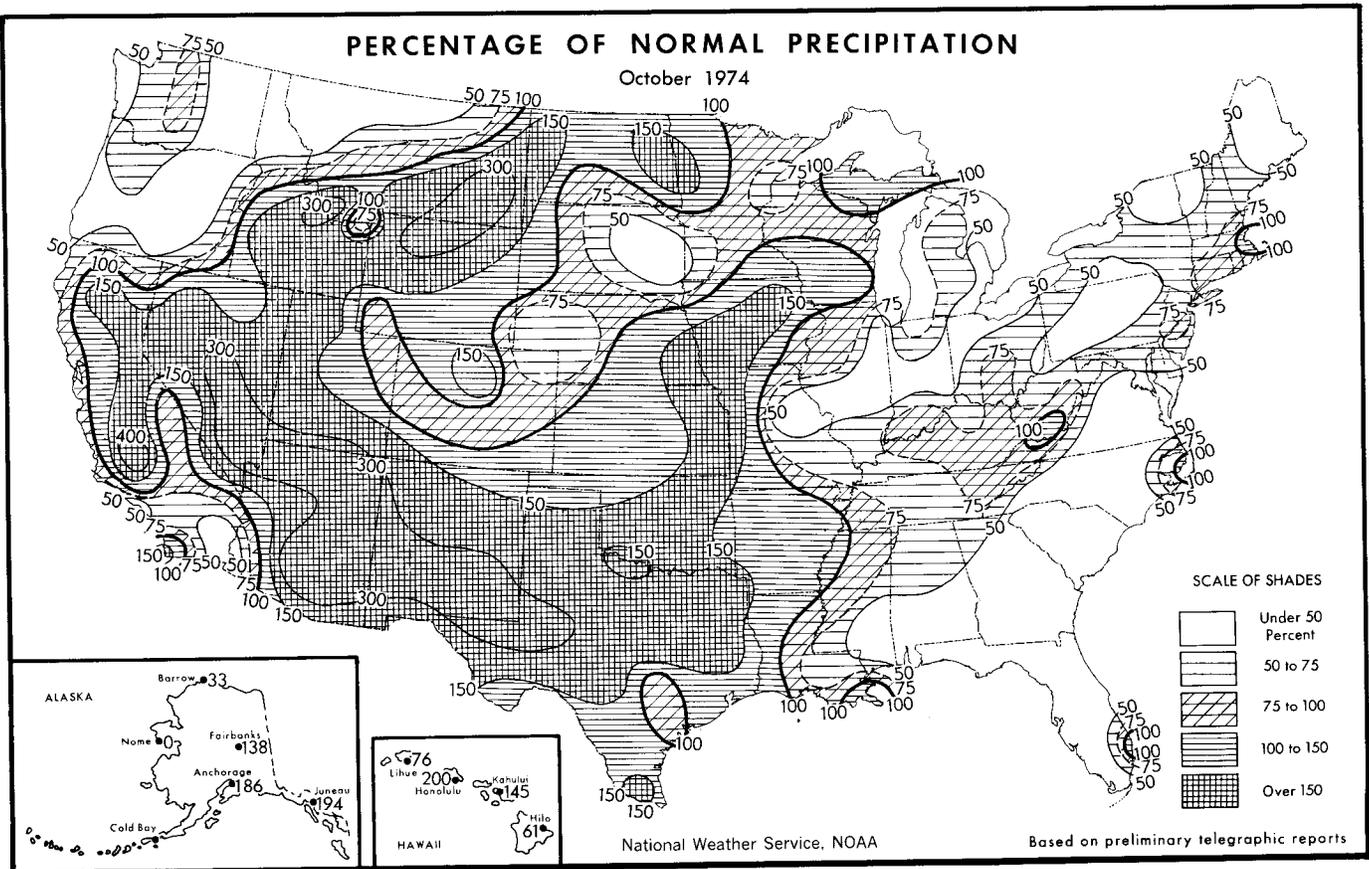
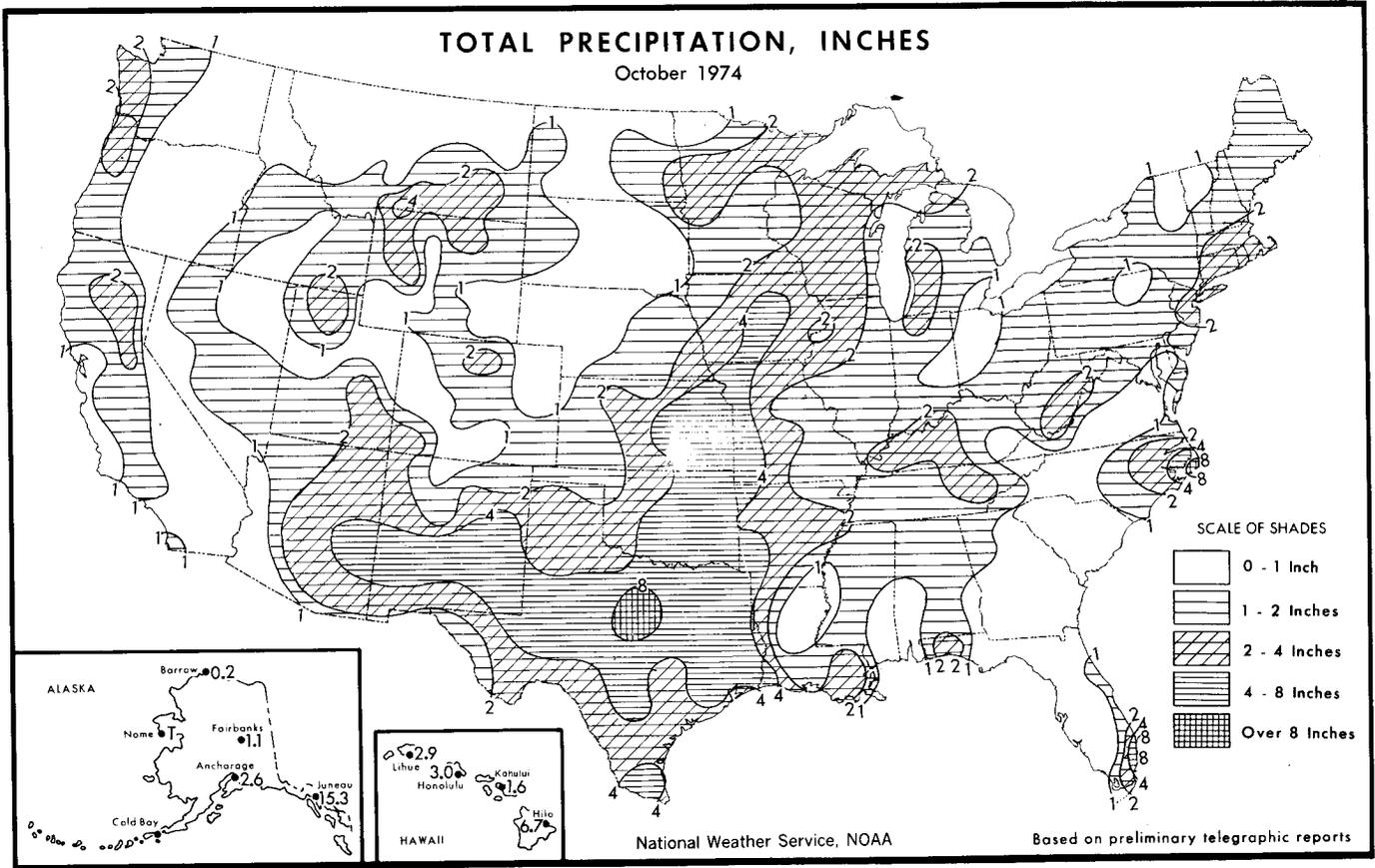
to 2.00 in. in some areas.

Precipitation was light and scattered during most of the next two weeks except for the Texas-Oklahoma, western Gulf Coast area. Moderate precipitation did fall from Texas to Michigan at midmonth with a cold front passage dropping 1.00 to 2.00 in. of moisture.

Good moisture fell in many Western States and the Desert Southwest during the last half of the month with heavy precipitation across the Nation's midsection as the month ended. Precipitation during the last week totaled as much as 10.62 in. at Tulsa, Okla.; 5.84 in. at Houston, Texas and 2.00 in. or more across much of the Corn Belt. The heaviest precipitation was associated with a cold front passage that broke record warm temperatures.

TEMPERATURES: The month began with cool Canadian air dominating the weather picture and temperatures east of the Mississippi averaging 10 to 15° below normal.

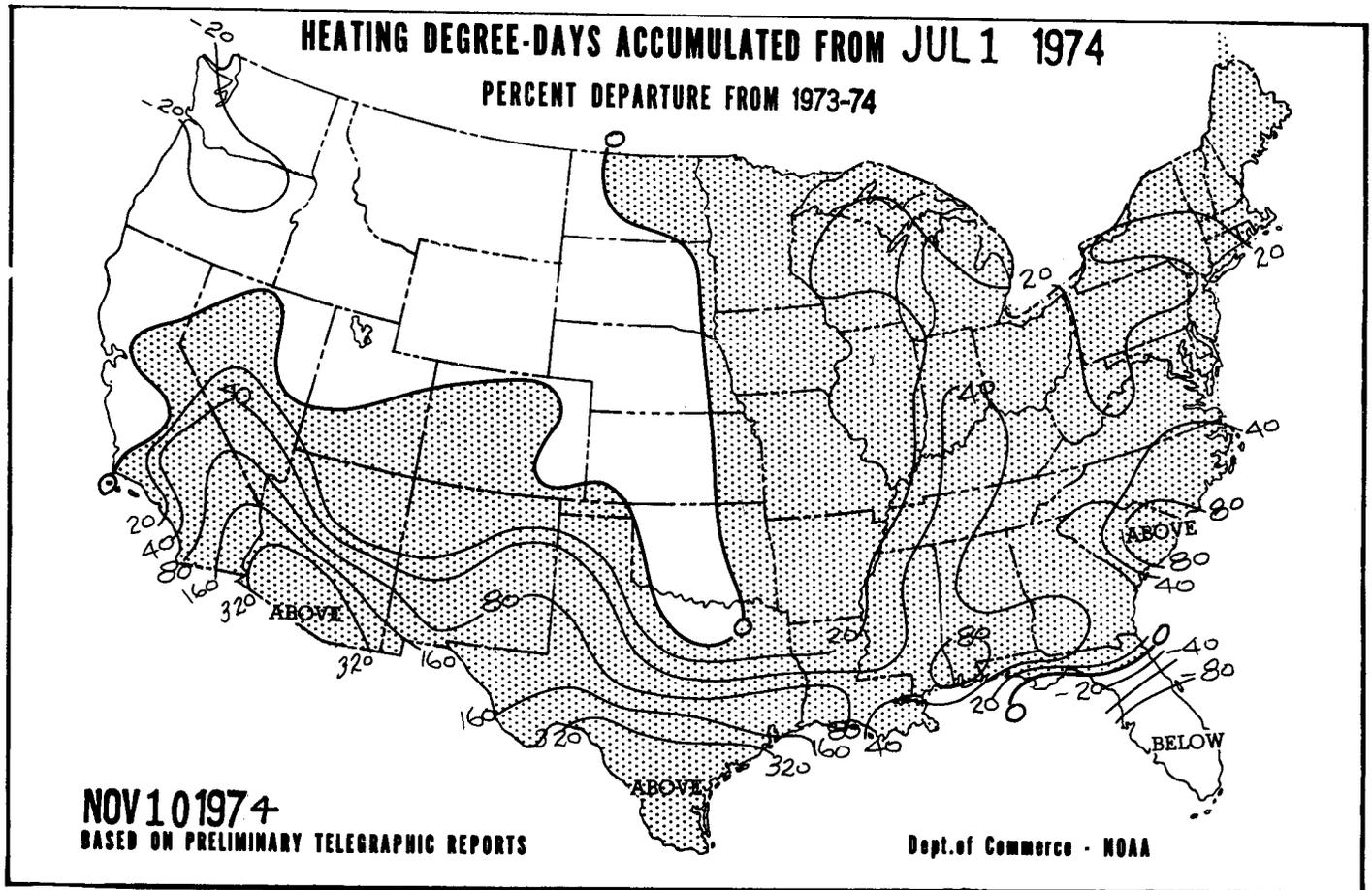
Temperatures warmed to near normal during the second week, but returned to cooler than normal during the third week of the month. Conditions continued colder than normal through the week ending the 26th, but the month ended with record warmth across the Eastern half of the Country.



Temperature and Precipitation Data for October 1974

| States and Stations | Temperature °F | | Precipitation Inches | | States and Stations | Temperature °F | | Precipitation Inches | | States and Stations | Temperature °F | | Precipitation Inches | |
|-------------------------|----------------|-----------|----------------------|-----------|-------------------------|----------------|-----------|----------------------|-----------|------------------------|----------------|-----------|----------------------|-----------|
| | Average | Departure | Total | Departure | | Average | Departure | Total | Departure | | Average | Departure | Total | Departure |
| ALA.Birmingham . . . | 61 | -2 | 1.5 | -1.1 | La.Baton Rouge . . . | 67 | -2 | 1.6 | -1.1 | Youngstown . . . | 49 | -4 | 1.7 | -1.2 |
| Mobile . . . | 66 | -3 | .9 | -1.7 | Lake Charles . . . | 69 | -1 | 4.2 | + .7 | OKLA.Okla. City . . . | 64 | +2 | 5.6 | +3.0 |
| Montgomery . . . | 62 | -4 | 1.5 | - .7 | New Orleans . . . | 67 | -3 | 2.3 | + .0 | Tulsa . . . | 63 | 0 | 6.4 | +3.2 |
| ALASKA.Anchorage . . . | 35 | 0 | 2.6 | -1.2 | Shreveport . . . | 66 | -2 | 3.8 | + .9 | OREG.Astoria . . . | 52 | -1 | 1.9 | +4.9 |
| Barrow . . . | 6 | -9 | .2 | - .4 | MAINE.Caribou . . . | 39 | -5 | 1.2 | -2.1 | Burns . . . | 48 | +1 | .4 | - .5 |
| Fairbanks . . . | 21 | -4 | 1.1 | + .3 | Portland . . . | 45 | -4 | 1.7 | -1.6 | Medford . . . | 54 | +1 | 1.2 | - .9 |
| Juneau . . . | 43 | +1 | 15.3 | +7.4 | MD.Baltimore . . . | 55 | -2 | 1.5 | -1.3 | Pendleton . . . | 55 | +2 | .3 | - .8 |
| Kodiak . . . | --- | --- | --- | --- | MASS.Boston . . . | 50 | -5 | 3.1 | + .1 | Portland . . . | 55 | +1 | 2.1 | -1.5 |
| Nome . . . | 24 | -5 | T | -1.4 | Chatham . . . | 50 | -2 | 2.2 | --- | Salem . . . | 53 | 0 | 2.2 | -1.8 |
| ARIZ.Flagstaff . . . | 48 | +1 | 3.6 | +2.2 | MICH.Alpena . . . | 45 | -2 | 1.4 | - .6 | PA.Allentown . . . | 50 | -4 | 1.6 | -1.1 |
| Phoenix . . . | 76 | +4 | 2.1 | +1.6 | Detroit . . . | 49 | -4 | .8 | -1.7 | Erie . . . | 48 | -4 | 1.6 | -1.6 |
| Tucson . . . | 69 | -1 | 2.1 | +1.4 | Flint . . . | 48 | -3 | 1.4 | - .8 | Harrisburg . . . | 52 | -4 | 1.3 | -1.3 |
| Winslow . . . | 57 | 0 | 3.4 | +2.7 | Grand Rapids . . . | 47 | -5 | 2.4 | - .2 | Philadelphia . . . | 55 | -2 | 1.9 | - .6 |
| Yuma . . . | 76 | 0 | .1 | - .2 | Houghton Lake . . . | 44 | -4 | 1.4 | -1.2 | Pittsburgh . . . | 52 | -1 | 1.1 | -1.4 |
| ARK.Fort Smith . . . | 62 | -1 | 3.8 | + .3 | Lansing . . . | 48 | -4 | 1.4 | - .9 | Scranton . . . | 49 | -4 | 1.1 | -1.7 |
| Little Rock . . . | 62 | 0 | 3.4 | + .4 | Marquette . . . | 47 | -2 | 3.0 | + .6 | R.I. Providence . . . | 48 | -6 | 2.8 | - .5 |
| CALIF.Bakersfield . . . | 71 | +4 | 1.8 | +1.5 | Muskegon . . . | 48 | -4 | 2.1 | - .6 | S.C. Charleston . . . | 62 | -4 | .4 | -2.7 |
| Eureka . . . | 53 | -1 | 1.7 | -1.5 | S. Ste. Marie . . . | 41 | -5 | 3.5 | + .6 | Columbia . . . | 61 | -3 | T | -2.6 |
| Fresno . . . | 66 | +2 | 1.4 | +1.0 | MINN.Duluth . . . | 43 | -2 | 1.6 | - .7 | Greenville . . . | 59 | -3 | .2 | -3.0 |
| Los Angeles . . . | 68 | 0 | .6 | -1.4 | Internatl Falls . . . | 43 | -1 | 1.6 | - .1 | S.D. Aberdeen . . . | 50 | +2 | .5 | - .7 |
| Red Bluff . . . | 67 | +2 | 2.2 | +1.0 | Minneapolis . . . | 50 | 0 | 1.7 | - .1 | Huron . . . | 52 | +2 | .5 | -1.0 |
| San Diego . . . | 67 | +1 | 1.0 | + .7 | Rochester . . . | 49 | -1 | 2.5 | + .7 | Rapid City . . . | 52 | +2 | 1.2 | + .3 |
| San Francisco . . . | 62 | -1 | .9 | - .1 | St. Cloud . . . | 47 | -1 | 1.6 | - .1 | Sioux Falls . . . | 52 | +2 | .3 | -1.2 |
| Stockton . . . | 66 | +2 | 1.0 | + .3 | MISS.Jackson . . . | 64 | -2 | 1.7 | - .5 | TENN.Chattanooga . . . | 57 | -4 | 1.7 | -1.3 |
| COLO.Denver . . . | 53 | +1 | 1.7 | + .6 | Meridian . . . | 63 | -2 | .6 | -1.6 | Knoxville . . . | 59 | -2 | 2.4 | - .3 |
| Grand Junction . . . | 56 | +1 | .7 | - .2 | MO.Columbia . . . | 57 | -1 | 1.2 | -2.2 | Memphis . . . | 62 | -1 | 2.7 | + .1 |
| Pueblo . . . | 57 | +2 | .9 | - .1 | Kansas City . . . | 58 | -1 | 7.2 | +4.0 | Nashville . . . | 59 | -2 | 1.5 | - .7 |
| CONN.Bridgeport . . . | 53 | -4 | 2.5 | - .3 | St. Louis . . . | 58 | -1 | 1.5 | -1.3 | TEX.Abilene . . . | 65 | -1 | 5.1 | +2.5 |
| Hartford . . . | 47 | -6 | 2.3 | - .7 | Springfield . . . | 59 | 0 | 4.3 | + .9 | Amarillo . . . | 59 | -1 | 3.4 | +1.6 |
| D.C.Washington . . . | 57 | -3 | 1.1 | -1.6 | MONT.Billings . . . | 51 | +2 | 2.2 | +1.3 | Austin . . . | 73 | +3 | 3.5 | - .2 |
| FLA.Apalachicola . . . | 69 | -2 | .1 | -2.8 | Glasgow . . . | 49 | +3 | .4 | - .2 | Beaumont . . . | 69 | -1 | 3.7 | + .7 |
| Daytona Beach . . . | 72 | -1 | 1.4 | -4.1 | Great Falls . . . | 51 | +3 | .4 | - .3 | Brownsville . . . | 74 | -2 | 2.6 | + .3 |
| Ft. Myers . . . | 75 | -1 | .2 | -4.2 | Havre . . . | 48 | +1 | .1 | - .6 | Corpus Christi . . . | 74 | 0 | 3.6 | + .8 |
| Jacksonville . . . | 66 | -5 | .3 | -4.2 | Helena . . . | 46 | 0 | .5 | - .1 | Del Rio . . . | 70 | -1 | 2.8 | + .7 |
| Key West . . . | 79 | -1 | 1.0 | -4.6 | Kalispell . . . | 43 | 0 | .1 | -1.1 | El Paso . . . | 63 | -1 | 1.9 | +1.1 |
| Lakeland . . . | 72 | -2 | T | -2.8 | Miles City . . . | 50 | +1 | 2.2 | +1.5 | Fort Worth . . . | 69 | +1 | 5.9 | +3.2 |
| Miami . . . | 78 | 0 | 3.7 | -4.5 | Missoula . . . | 46 | +2 | .3 | - .6 | Galveston . . . | 73 | 0 | 3.6 | + .8 |
| Orlando . . . | 73 | -1 | .5 | -3.6 | NEBR.Grand Island . . . | 55 | +1 | 1.4 | + .3 | Houston . . . | 71 | 0 | 4.5 | + .4 |
| Tallahassee . . . | 65 | -4 | .9 | -2.0 | Lincoln . . . | 56 | +1 | 3.0 | +1.5 | Lubbock . . . | 60 | -1 | 3.9 | +1.8 |
| Tampa . . . | 73 | -2 | .2 | -2.3 | Norfolk . . . | 54 | +1 | 1.7 | + .4 | Midland . . . | 64 | -2 | 5.4 | +4.0 |
| W.Palm Beach . . . | 77 | 0 | 9.3 | + .5 | N.Platte . . . | 53 | +2 | .6 | - .4 | San Angelo . . . | 66 | -1 | 4.8 | +2.9 |
| GA.Atlanta . . . | 61 | -1 | 1.2 | -1.3 | Omaha . . . | 55 | +1 | 2.7 | + .9 | San Antonio . . . | 68 | -3 | 4.1 | +2.3 |
| Augusta . . . | 61 | -3 | .1 | -2.1 | Valentine . . . | 52 | +2 | .8 | - .1 | Victoria . . . | 73 | +1 | 2.9 | - .7 |
| Macon . . . | 63 | -3 | .4 | -1.9 | NEV.Ely . . . | 45 | -1 | 1.5 | + .9 | Waco . . . | 70 | +1 | 6.8 | +4.2 |
| Savannah . . . | 65 | -2 | .1 | -2.7 | Las Vegas . . . | 69 | -2 | .6 | + .4 | Wichita Falls . . . | 65 | -1 | 3.5 | + .8 |
| HAWAII.Hilo . . . | 77 | +2 | 6.7 | -4.3 | Reno . . . | 49 | +1 | .7 | + .3 | UTAH.Blanding . . . | 53 | +1 | 3.9 | +2.5 |
| Honolulu . . . | 80 | +1 | 3.0 | +1.5 | Winemucca . . . | 48 | 0 | 1.7 | +1.0 | Salt Lake City . . . | 55 | +3 | 2.0 | + .8 |
| Kahului . . . | 78 | +1 | 1.6 | + .5 | N.H.Concord . . . | 42 | -7 | 1.6 | -1.1 | VT.Burlington . . . | 43 | -6 | .8 | +2.1 |
| Lihue . . . | 79 | +2 | 2.9 | - .9 | N.J.Atlantic City . . . | 52 | -5 | 1.9 | -1.6 | VA.Lynchburg . . . | 55 | -3 | .4 | +2.2 |
| IDAHO.Boise . . . | 52 | 0 | 1.5 | + .7 | Trenton . . . | 54 | -3 | 2.1 | - .4 | Norfolk . . . | 59 | -3 | 1.2 | - .9 |
| Lewiston . . . | 53 | +1 | .1 | -1.0 | N.MEX.Albuquerque . . . | 58 | 0 | 2.0 | +1.2 | Richmond . . . | 55 | -4 | .4 | -2.5 |
| Pocatello . . . | 49 | +1 | 2.0 | +1.2 | Roswell . . . | 59 | -1 | 3.8 | +2.6 | Roanoke . . . | 55 | -3 | .8 | -2.4 |
| ILL.Cairo . . . | 60 | -2 | 1.5 | -1.2 | N.Y.Albany . . . | 44 | -7 | 1.5 | -1.1 | WASH.Colville . . . | 46 | 0 | .1 | -1.3 |
| Chicago . . . | 54 | -1 | 1.2 | -1.4 | Binghamton . . . | 45 | -5 | 1.0 | -2.0 | Omak . . . | 48 | +1 | .1 | - .8 |
| Moline . . . | 54 | 0 | 2.0 | - .7 | Buffalo . . . | 49 | -3 | 1.8 | -1.2 | Quillayute . . . | 51 | 0 | 3.1 | -8.5 |
| Peoria . . . | 54 | -1 | 2.1 | - .4 | New York . . . | 54 | -4 | 2.0 | -1.0 | Seattle-Tacoma . . . | 53 | +1 | 2.0 | -1.9 |
| Rockford . . . | 52 | -1 | 2.4 | - .5 | Rochester . . . | 48 | -4 | 1.3 | -1.3 | Spokane . . . | 48 | 0 | .1 | -1.3 |
| Springfield . . . | 56 | -1 | 1.4 | -1.7 | Syracuse . . . | 47 | -6 | 1.6 | -1.5 | Walla Walla . . . | 54 | 0 | .4 | -1.1 |
| IND.Evansville . . . | 56 | -2 | 1.9 | - .6 | N.C.Asheville . . . | 55 | -2 | 1.3 | -2.0 | Yakima . . . | 50 | 0 | .5 | - .1 |
| Ft. Wayne . . . | 51 | -3 | 1.3 | -1.5 | Charlotte . . . | 58 | -4 | .5 | -2.2 | W.Va.Beckley . . . | 50 | -3 | 2.9 | + .4 |
| Indianapolis . . . | 53 | -3 | 1.0 | -1.5 | Greensboro . . . | 58 | -1 | .8 | -2.1 | Charleston . . . | 53 | -4 | 1.6 | - .9 |
| South Bend . . . | 53 | 0 | 2.5 | - .6 | Hatteras . . . | 62 | -3 | 9.0 | +4.2 | Huntington . . . | 54 | -3 | 1.6 | - .5 |
| IOWA.Burlington . . . | 55 | 0 | 2.8 | - .2 | Raleigh . . . | 56 | -4 | 1.2 | -1.6 | Parkersburg . . . | 53 | -4 | 1.1 | -1.0 |
| Des Moines . . . | 55 | +1 | 3.9 | +1.8 | Wilmington . . . | 62 | -3 | 1.1 | -2.2 | WIS.Green Bay . . . | 46 | -3 | 1.7 | - .2 |
| Dubuque . . . | 51 | -1 | 3.1 | + .3 | N.DAK.Bismarck . . . | 46 | -1 | .7 | - .1 | La Crosse . . . | 50 | -2 | 2.3 | + .2 |
| Sioux City . . . | 55 | +2 | 1.6 | 0 | Fargo . . . | 48 | +1 | 3.1 | +2.0 | Madison . . . | 51 | +1 | 3.2 | +1.0 |
| KANS.Concordia . . . | 58 | +1 | 2.0 | + .2 | Williston . . . | 47 | +1 | 1.1 | + .5 | Milwaukee . . . | 50 | -1 | 2.0 | 0 |
| Dodge City . . . | 60 | +2 | 1.9 | + .2 | OHIO.Akron-Canton . . . | 51 | -2 | 1.5 | - .9 | WYO.Casper . . . | 49 | +1 | 1.2 | + .3 |
| Goodland . . . | 54 | +1 | 1.0 | 0 | Cincinnati . . . | 53 | -4 | 1.1 | -1.1 | Cheyenne . . . | 48 | 0 | .9 | - .1 |
| Topeka . . . | 58 | 0 | 5.2 | +2.5 | Cleveland . . . | 51 | -3 | 1.2 | -1.4 | Lander . . . | 48 | +1 | 2.0 | + .8 |
| Wichita . . . | 61 | +1 | 3.4 | + .9 | Columbus . . . | 53 | -1 | 1.5 | - .4 | Sheridan . . . | 48 | 0 | 3.0 | +2.0 |
| KY.Lexington . . . | 54 | -4 | 1.5 | - .6 | Dayton . . . | 53 | -3 | 1.0 | - .9 | P.R.San Juan . . . | 82 | +2 | 8.2 | +2.6 |
| Louisville . . . | 55 | -3 | 2.1 | - .3 | Toledo . . . | 50 | -3 | .7 | -1.5 | | | | | |

Based on 1941 - 70 normals



THE HEATING DEGREE-DAY STATISTIC

Heating engineers developed the heating degree-day statistic as a useful integrator of temperature and fuel consumption early in the century. The heating degree-day statistic is a simple method, using only outdoor air temperature, and neglecting the other factors such as solar radiation and wind. Numerous studies have established the fact that when the daily mean air temperature is 65° or higher, most buildings require no heat to maintain an inside temperature of at least 70°.

The daily degree-day statistic is calculated by subtracting the mean temperature for the day from a base temperature of 65° as follows:

$$65^{\circ} - \frac{\text{Max Temp} + \text{Min Temp}}{2.0} = \text{Daily Heating Degree-Days}$$

Thus, each degree of mean temperature below 65° is one degree-day unit. If the mean temperature is

45°, 20 heating degree-days would be accumulated. If the daily mean temperature were 25°, 40 degree-day units were accumulated. Twice as much fuel would be required on a day with 40 heating degree-days than a day with 20 heating degree-days. If the mean temperature is greater than 65°, the heating degree-day value is set equal to zero (0) for the day. The degree-days for any given period are obtained by totaling the degree-days for each day of the period.

As the maps are presented, a positive departure indicates that the heating degree-day accumulation is greater than the comparative value, so temperatures have been colder than anticipated and thus fuel consumption is greater than expected. Similarly, a negative departure indicates that conditions have been warmer than anticipated. Note the similarity in the weekly percent of normal departure and the temperature departure map on page 2.

Heating Degree Days (Base 65°) For Week Ending Nov. 10, 1974

| States and Stations | Weekly | | Seasonal + Accumulation | | | States and Stations | Weekly | | Seasonal + Accumulation | | | States and Stations | Weekly | | Seasonal + Accumulation | | |
|---------------------|--------|------------|-------------------------|------------|------------------------|---------------------|--------|------------|-------------------------|------------|------------------------|---------------------|--------|------------|-------------------------|------------|------------------------|
| | TOTAL | Departure* | TOTAL | Departure* | Departure From 1973-74 | | TOTAL | Departure* | TOTAL | Departure* | Departure From 1973-74 | | TOTAL | Departure* | TOTAL | Departure* | Departure From 1973-74 |
| ALA. Birmingham | 68 | 6 | 246 | 2 | 60 | Portland | 136 | 24 | 1046 | -47 | 55 | Tulsa | 118 | 32 | 297 | -28 | 13 |
| Mobile | 32 | 5 | 90 | 2 | 51 | MD. Baltimore | 63 | 45 | 416 | -10 | 43 | OREG. Astoria | 111 | 9 | 962 | -99 | -273 |
| Montgomery | 52 | 2 | 172 | 5 | 49 | MASS. Boston | 95 | 19 | 686 | 143 | 109 | Burns | 193 | 9 | 1022 | -108 | -138 |
| ARIZ. Flagstaff | 219 | 37 | 1090 | -99 | 161 | MICH. Alpena | 165 | 20 | 1307 | 50 | 203 | Medford | 122 | 12 | 552 | -116 | 13 |
| Phoenix | 20 | 8 | 57 | 3 | 55 | Detroit | 141 | 7 | 846 | 141 | 183 | Pendleton | 135 | 13 | 556 | -150 | -190 |
| Tucson | 60 | 25 | 142 | 70 | 115 | Flint | 152 | 9 | 922 | 69 | 153 | Portland | 105 | 20 | 533 | -211 | -127 |
| Winslow | 153 | 25 | 522 | 76 | 55 | Grand Rapids | 170 | 12 | 1057 | 280 | 300 | Salem | 112 | 15 | 660 | -100 | -170 |
| Yuma | 3 | 12 | 20 | 1 | 20 | Houghton Lake | 166 | 21 | 1266 | 66 | 191 | PA. Allentown | 87 | 46 | 698 | 79 | 109 |
| ARK. Fort Smith | 104 | 23 | 273 | 28 | 28 | Lansing | 160 | 1 | 1017 | 203 | 184 | Erie | 145 | 3 | 920 | 88 | 192 |
| Little Rock | 85 | 3 | 219 | -40 | 40 | Marquette | 150 | 37 | 1243 | 104 | 206 | Harrisburg | 79 | 44 | 592 | 78 | 112 |
| CALIF. Bakersfield | 48 | 1 | 97 | -20 | 31 | Muskegon | 160 | 3 | 947 | 119 | 175 | Philadelphia | 61 | 47 | 424 | -12 | 10 |
| Eureka | 86 | 1 | 1211 | 11 | -112 | S. Ste. Marie | 174 | 24 | 1533 | 163 | 234 | Pittsburgh | 111 | 30 | 621 | -75 | 20 |
| Fresno | 76 | 14 | 170 | -3 | -3 | MINN. Duluth | 186 | 37 | 1676 | 267 | 239 | Scranton | 104 | 40 | 780 | 42 | -1 |
| Los Angeles | 17 | 12 | 60 | -113 | 6 | Internatl Falls | 195 | 48 | 1590 | 45 | 208 | R.I. Providence | 103 | 25 | 754 | 123 | 73 |
| Red Bluff | 91 | 31 | 189 | 26 | -24 | Minneapolis | 171 | 27 | 1043 | 38 | 132 | S.C. Charleston | 62 | 14 | 203 | 64 | 113 |
| San Diego | 18 | 7 | 44 | -55 | 18 | Rochester | 179 | 14 | 1081 | 88 | 151 | Columbia | 60 | 2 | 241 | 45 | 118 |
| San Francisco | 74 | 18 | 458 | 1 | -56 | St. Cloud | 182 | 29 | 1289 | 175 | 200 | Greenville | 74 | 3 | 318 | 59 | 50 |
| Stockton | 85 | 20 | 183 | 7 | 16 | MISS. Jackson | 58 | 3 | 143 | -23 | 19 | S. DAK. Aberdeen | 173 | 36 | 1009 | -45 | -73 |
| COLO. Denver | 176 | 17 | 842 | 93 | 100 | Meridian | 49 | 12 | 160 | -35 | 53 | Huron | 168 | 28 | 921 | -22 | -48 |
| Grand Junction | 156 | 7 | 548 | -41 | 55 | MO. Columbia | 154 | 33 | 601 | 147 | 115 | Rapid City | 152 | 32 | 947 | -2 | -151 |
| Pueblo | 146 | 2 | 563 | -31 | -2 | Kansas City | 157 | 35 | 567 | 124 | 88 | Sioux Falls | 168 | 33 | 949 | 28 | 44 |
| CONN. Bridgeport | 80 | 28 | 534 | 82 | 157 | St. Louis | 145 | 31 | 522 | 108 | 59 | TENN. Chattanooga | 96 | 3 | 374 | 56 | 82 |
| Hartford | 115 | 25 | 810 | 114 | 172 | Springfield | 144 | 32 | 514 | 90 | 133 | Knoxville | 76 | 15 | 314 | 5 | 18 |
| DEL. Wilmington | 70 | 41 | 499 | 60 | 124 | MONT. Billings | 165 | -16 | 1056 | 72 | -94 | Memphis | 76 | 3 | 225 | -30 | 35 |
| D.C. Washington | 55 | 40 | 331 | -3 | 56 | Glasgow | 176 | 45 | 1124 | -67 | -116 | Nashville | 97 | 2 | 341 | 22 | 114 |
| FLA. Apalachicola | 16 | 9 | 24 | -32 | -9 | Great Falls | 145 | -46 | 1053 | -56 | -204 | TEX. Abilene | 97 | 37 | 215 | 45 | 54 |
| Daytona Beach | 3 | 11 | 3 | 15 | -8 | Havre | 168 | -55 | 1176 | -101 | -109 | Amarillo | 121 | 12 | 451 | 76 | 92 |
| Ft. Myers | 0 | 7 | 0 | 9 | 0 | Helena | 194 | -17 | 1379 | 80 | -79 | Austin | 60 | 25 | 81 | -5 | 49 |
| Jacksonville | 22 | 4 | 61 | 7 | 15 | Kalspell | 209 | 12 | 1446 | -120 | -36 | Brownsville | 14 | 7 | 19 | 8 | 19 |
| Key West | 0 | 0 | 0 | 0 | 0 | Miles City | 164 | -36 | 1000 | -27 | -78 | Corpus Christi | 32 | 20 | 36 | 14 | 36 |
| Lakeland | 3 | 8 | 3 | -11 | -2 | Missoula | 211 | 1 | 1178 | -175 | -155 | Del Rio | 54 | 25 | 70 | -2 | 59 |
| Miami | 0 | 0 | 0 | 0 | 0 | NEBR. Grand Island | 163 | 4 | 737 | 48 | 17 | El Paso | 93 | 19 | 271 | 80 | 126 |
| Orlando | 2 | 7 | 2 | -10 | -4 | Lincoln | 159 | 7 | 661 | 40 | -9 | Fort Worth | 63 | 13 | 99 | -28 | -15 |
| Tallahassee | 45 | 11 | 101 | 24 | 29 | Norfolk | 162 | -9 | 776 | 10 | -4 | Galveston | 30 | 15 | 35 | -2 | 29 |
| Tampa | 0 | 10 | 0 | -13 | -7 | North Platte | 178 | 1 | 925 | 86 | -29 | Houston | 40 | 15 | 53 | -5 | 30 |
| W. Palm Beach | 0 | 0 | 0 | 0 | 0 | Omaha | 150 | -5 | 706 | 130 | 58 | Lubbock | 120 | 28 | 382 | 86 | 152 |
| GA. Atlanta | 55 | 20 | 229 | -18 | 37 | Valentine | 171 | -14 | 926 | 28 | -38 | Midland | 80 | 16 | 188 | 22 | 27 |
| Augusta | 64 | 1 | 227 | 38 | 46 | NEV. Ely | 205 | 9 | 1215 | -2 | -23 | Beaumont | 51 | 19 | 69 | -9 | 38 |
| Macon | 50 | 5 | 159 | 3 | 45 | Las Vegas | 57 | -5 | 148 | -9 | 57 | San Angelo | 76 | 22 | 138 | -7 | 59 |
| Savannah | 45 | 1 | 126 | 7 | 25 | Reno | 172 | 16 | 939 | 30 | 38 | San Antonio | 58 | 28 | 78 | 7 | 59 |
| IDAHO. Boise | 147 | 8 | 677 | -84 | -33 | Winemucca | 177 | -2 | 1000 | -10 | 47 | Victoria | 32 | 13 | 38 | -2 | 35 |
| Lewiston | 158 | 3 | 633 | -133 | -140 | N.H. Concord | 156 | -7 | 1176 | 219 | 97 | Waco | 53 | 12 | 78 | -28 | 16 |
| Pocatello | 180 | 3 | 976 | 6 | -53 | N.J. Atlantic City | 75 | -35 | 547 | 98 | 31 | Wichita Falls | 78 | 13 | 162 | -18 | -4 |
| ILL. Cairo | 99 | 6 | 327 | 33 | 25 | Trenton | 59 | -48 | 481 | 43 | 47 | UTAH. Salt Lake C | 146 | -13 | 570 | -162 | 83 |
| Chicago | 140 | 3 | 674 | 97 | 80 | N.MEX. Albuquerque | 134 | 14 | 471 | 82 | 50 | VT. Burlington | 175 | 7 | 1134 | 137 | 90 |
| Moline | 153 | 1 | 716 | 74 | 82 | Roswell | 121 | 16 | 452 | 97 | 204 | VA. Lynchburg | 76 | -29 | 454 | 43 | 74 |
| Peoria | 156 | 9 | 689 | 82 | 96 | N.Y. Albany | 148 | -3 | 1083 | 279 | 196 | Norfolk | 41 | -32 | 270 | 20 | 48 |
| Rockford | 163 | 0 | 776 | 33 | 92 | Binghamton | 156 | -4 | 1069 | 157 | 165 | Richmond | 62 | -29 | 434 | 85 | 96 |
| Springfield | 141 | 6 | 588 | 65 | 94 | Buffalo | 151 | 0 | 849 | 40 | 61 | Roanoke | 79 | -26 | 471 | 59 | 80 |
| IND. Evansville | 112 | 5 | 516 | 86 | 127 | New York | 71 | -29 | 486 | 94 | 109 | WASH. Quillayute | 135 | -2 | 1180 | -90 | -339 |
| Fort Wayne | 148 | 1 | 752 | 84 | 149 | Rochester | 152 | 6 | 928 | 166 | 195 | Seattle-Tacoma | 126 | -5 | 769 | -143 | -137 |
| Indianapolis | 134 | 1 | 685 | 128 | 195 | Syracuse | 145 | 3 | 969 | 235 | 183 | Spokane | 192 | 3 | 989 | -71 | -140 |
| South Bend | 134 | 17 | 672 | -35 | 114 | N.C. Asheville | 85 | -27 | 471 | 3 | 82 | Walla Walla | 132 | -8 | 562 | -50 | -119 |
| IOWA. Burlington | 153 | 7 | 690 | 92 | 121 | Hatteras | 32 | -16 | 176 | 35 | 63 | Yakima | 155 | -13 | 798 | -102 | -189 |
| Des Moines | 152 | 6 | 685 | 11 | 108 | Charlotte | 66 | -11 | 334 | 66 | 79 | W.VA. Beckley | 124 | -16 | 770 | 49 | 141 |
| Dubuque | 170 | 3 | 921 | 89 | 157 | Greensboro | 65 | -31 | 362 | 3 | 9 | Charleston | 111 | -4 | 610 | 138 | 145 |
| Sioux City | 166 | 3 | 729 | -4 | 59 | Raleigh | 73 | -12 | 385 | 70 | 132 | Huntington | 112 | -2 | 567 | 99 | 166 |
| KANS. Concordia | 145 | 9 | 545 | 11 | -25 | Wilmington | 52 | 2 | 206 | 58 | 88 | Parkersburg | 105 | -11 | 662 | 188 | 188 |
| Dodge City | 124 | 5 | 480 | 16 | -21 | N. Dak. Bismarck | 188 | -31 | 1356 | 184 | 35 | WIS. Green Bay | 190 | 4 | 1205 | 191 | 291 |
| Goodland | 178 | 16 | 808 | 90 | -23 | Fargo | 192 | -26 | 1265 | 126 | 39 | LaCrosse | 154 | -21 | 934 | 121 | 196 |
| Topeka | 148 | 20 | 539 | 51 | 36 | Williston | 180 | -46 | 1289 | 47 | -47 | Madison | 166 | -16 | 943 | -9 | 52 |
| Wichita | 132 | 17 | 413 | 14 | -26 | OHIO. Akron-Canton | 124 | -20 | 734 | 43 | 151 | Milwaukee | 157 | -14 | 908 | 41 | 149 |
| KY. Lexington | 116 | 4 | 579 | 129 | 161 | Cleveland | 136 | -3 | 748 | 75 | 177 | WYO. Casper | 180 | -14 | 1159 | 94 | -19 |
| Louisville | 111 | 5 | 547 | 112 | 182 | Columbus | 114 | -24 | 624 | 7 | 110 | Cheyenne | 188 | 1 | 1154 | 86 | -33 |
| LA. Baton Rouge | 35 | 2 | 62 | 42 | 22 | Cincinnati | 124 | 0 | 648 | 163 | 143 | Lander | 201 | -9 | 1144 | 40 | -66 |
| Lake Charles | 41 | 10 | 57 | -20 | 28 | Dayton | 123 | -12 | 675 | 111 | 148 | Sheridan | 185 | -13 | 1196 | 84 | -105 |
| New Orleans | 19 | 13 | 43 | 40 | 9 | Toledo | 151 | 0 | 840 | 135 | 133 | | | | | | |
| Shreveport | 63 | 13 | 109 | -29 | 6 | Youngstown | 137 | -10 | 859 | 119 | 133 | | | | | | |
| MAINE. Caribou | 199 | 6 | 1540 | 63 | 128 | OKLA. Okla City | 105 | 17 | 259 | -20 | -40 | | | | | | |

* Based on 1941-70 Normals.

† Accumulated from July 1, 1974



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WORLD AGRICULTURAL WEATHER WATCH

October rains improved prospects for fall-seeded grains, pulses and tobacco in India. They also gave peanuts and cotton a good boost in Nigeria.

On the other hand, rains have been troublesome in several areas. In much of Eastern Europe rains and flooding have delayed harvest and lowered quality of sugar beets, corn and other crops, and upset schedules for fall seeding. Yugoslavia and Hungary have been especially hard hit. Poland has experienced difficulty in seeding all acreage intended for winter wheat and rye and the rain has hampered harvesting of sugar beets. Parts of Western Europe, and Scandinavia in particular, have had similar problems. Severe storms at harvest cut hop production in the United Kingdom.

Extremely heavy mid-October rains caused considerable damage to tapioca in Thailand. And early fall rains became too much of a good thing in West Africa, favoring pod rot in cocoa and reducing production prospects. Unfavorable weather has also reduced cocoa prospects in Brazil. October typhoons damaged tobacco seedbeds in the Phillipines, delaying some transplanting thus the added risk of harvest of late acreage in the May rainy season.

In contrast, drought continued in southern Romania and Bulgaria. Drought took a further toll on wheat in the southern portion of the wheat region of Argentina. Central China is also quite dry. And a warm, dry fall has been delaying citrus maturity in Spain

USDA FOREIGN AGRICULTURAL SERVICE
W.J. Cremins
November 11, 1974

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