

# Weekly Weather & Crop Bulletin

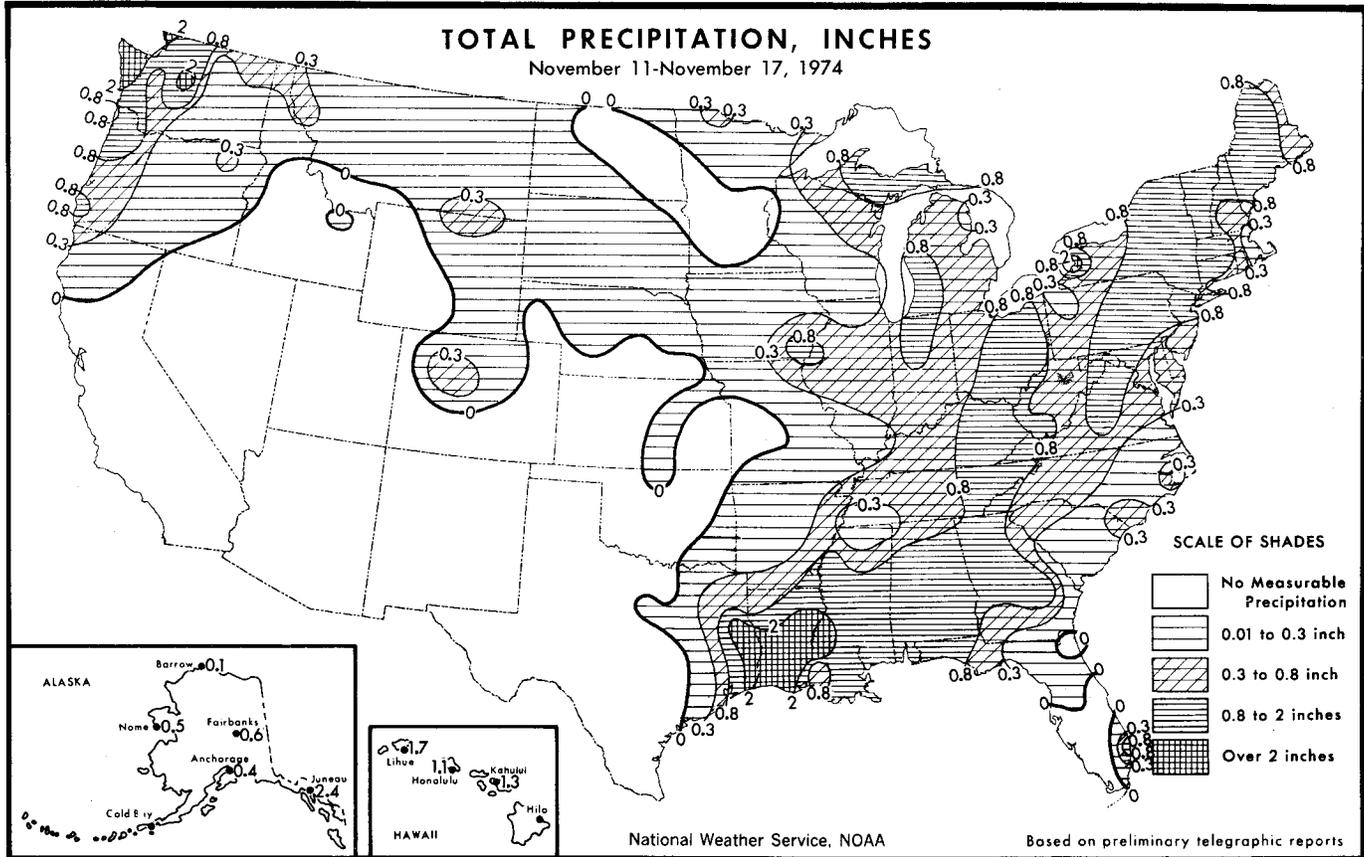
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## NATIONAL WEATHER SUMMARY

For the Week of November 11-17

**HIGHLIGHTS:** The season's first major snowstorm blanketed much of the Northern Great Plains, the Corn Belt and the Great Lakes area early in the week.

Moderate to heavy rains fell along the northern Gulf Coast States and northward through Tennessee and Kentucky into Ohio. Most of New England also received at least 1.00 in. of rain except along the Atlantic Coast. Precipitation was very light over the Northern Plains and the Pacific Northwest, except along the Oregon-Washington Coast where rainfall was heavy.

No precipitation fell in the remainder of the western states.

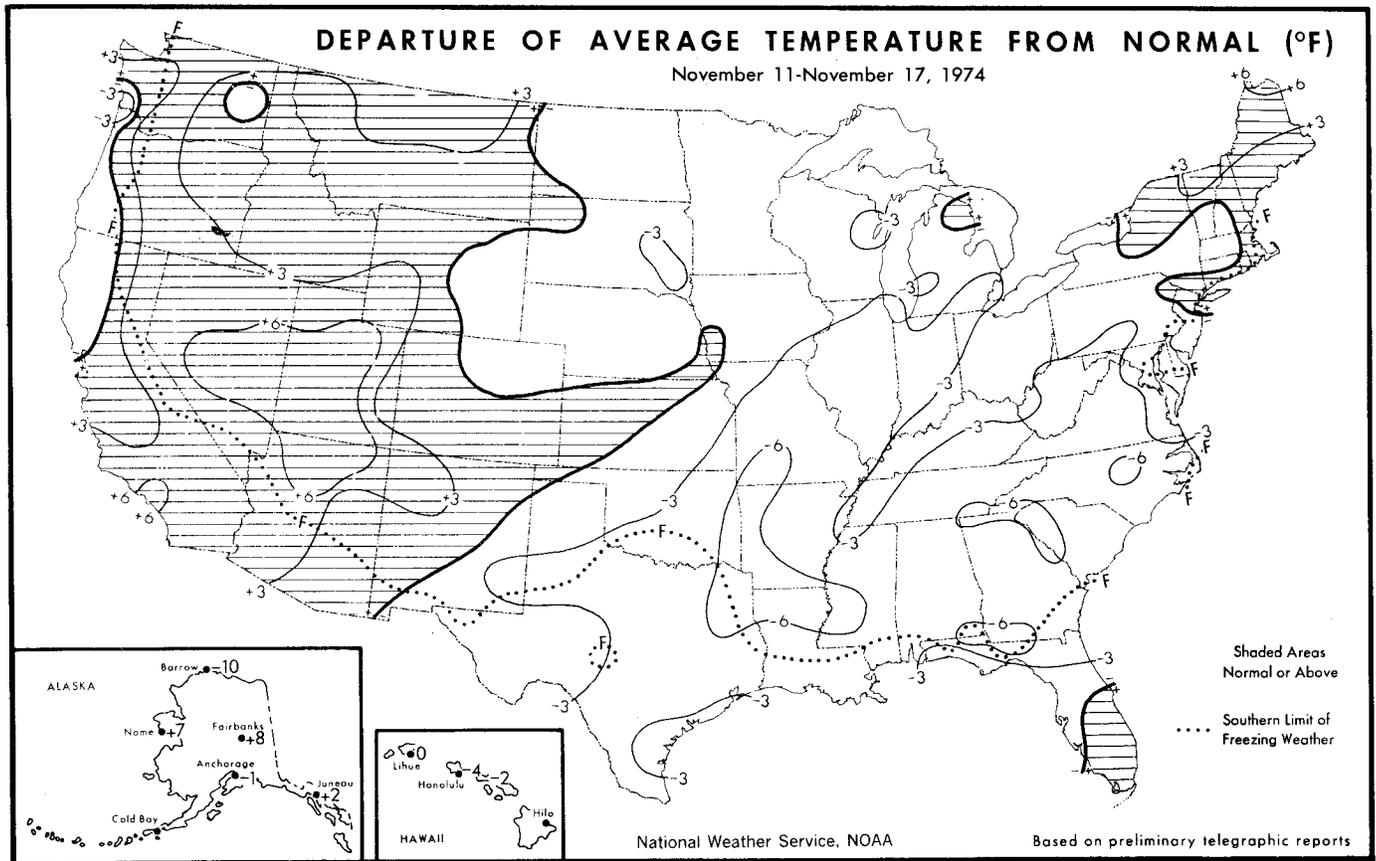
Temperatures averaged below normal east of the Rockies except for northern New England and southern Florida. From the Rockies westward temperatures were well above normal.

**PRECIPITATION:** Most of the Nation's eastern

half got some precipitation with light scattered amounts reported in the Northwestern States and North Central States. Although the amounts were light, much of the precipitation over the Corn Belt fell as snow.

Monday, last week's major cold front stretching from a low over the Great Lakes to the western Gulf Coast continued to produce light rain and drizzle from the western Great Lakes Region to the central Gulf Coast and in the eastern Mississippi Valley. During the day, the front moved rapidly eastward. By evening, the front reached from the Ohio Valley into the Florida Panhandle.

Cold air from the backside of the low, which was moving northward, brought the first snow of the season to the Northern Corn Belt on Tuesday. Much of the Great Lakes Region reported snow, and gusty winds while sleet and snow invaded central Illinois. Snow also fell in parts of the central and southern Appalachians. At sunset 5 in. of snow blanketed



Hancock, Mich. Both Duluth, Minn. and Park Falls, Wis. measured 1 in. of the winter white.

Wednesday, cold air and a vigorous weather system combined to drop snow over sections of the mid and upper Mississippi Valley, the Great Lakes and the northern Ohio Valley. Five inches of snow covered the ground at Moline, Ill. and 4 in. whitened the landscape at Peru, Ind. Parts of Iowa and southern Minnesota got 2 to 3 in.

Thursday, a cold blast of Canadian air produced snow showers in the Great Lakes Region and across the upper Mississippi Valley to the lower Missouri Valley. The greatest depth reported was 2 ft. at Ironwood, Mich.

Gusty winds swirling around a low pressure center over the Hudson Bay, gradually swept moisture from the warm waters and deposited it in the form of snow along the Great Lakes on Friday.

Saturday, warm dry air, blowing eastward across the Great Lakes halted the locally heavy snows in the lower Great Lakes Region. Elsewhere, rain showers developed from Kansas into west central Illinois, Arkansas, and the Texas Panhandle.

A Pacific cold front invaded the north Pacific Coast Sunday morning. Shortly before daybreak, rain began in Northwest Washington and gradually inched down through northern California during the day.

**TEMPERATURE:** Bitter cold gripped much of the Nation last week with freezing temperatures reaching almost to the Gulf Coast.

Monday, pre-dawn temperatures east of the Rockies ranged from the 20's and 30's in the northern Plains and North Atlantic States to the 60's along the

Gulf Coast. Elsewhere a large high pressure system continued to build over the west and southwest. Sunshine and warm winds pushed temperatures 15 to 20° above normal along the southern California Coast.

A few spots in the northern and central Rockies and west Central Plains dipped into the teens on Tuesday. In the Great Basin and Northern Plains 20's prevailed. And along the Atlantic, Pacific and Gulf Coasts, 40's and 50's were common; while southern Florida held in the 60's. The coldest afternoon temperature was 26° reported at both Duluth, Minn. and Minot, N. Dak.

Wednesday afternoon southern California coastal area was the warmest section of the Nation. Meanwhile the thermometer remained below the freezing mark between the northern Rockies and the Great Lakes.

Unseasonably cold air invaded parts of the South Thursday, where the afternoon temperature in Columbus, Miss. hovered in the thirties. In contrast Miami, Fla. reported the warmest temperature in the Nation with a mild 80° reading.

Friday, only the Desert Southwest and the Florida Peninsula reached the 70's and 80's. Most other parts of the Nation were near normal with highs in the 40's and 50's.

Coolest temperatures in the country on Saturday afternoon were in northern Maine, the upper Mississippi Valley and western Great Lakes Region where temperatures were in the 30's.

Sunday, high temperatures across the Nation ranged from the 30's in northern New England and the northern portions of the Rockies and the Plateau to the 80's in the Florida Peninsula.

### NATIONAL AGRICULTURAL SUMMARY

For the Week of November 11-17

**HIGHLIGHTS:** Inclimate weather stalled row crop harvesting in many areas east of the Mississippi River. Nationwide, harvesting advanced to 78% complete for corn and 83% for soybeans by November 17th, well behind last year's excellent progress, but equal to normal for both crops. Winter wheat stands continue to improve from recent moisture.

**SMALL GRAINS:** Winter wheat seeding, at 94% done, was nearing completion in much of Texas and compared with 97% in 1973 and average. Seeding was still being done in Missouri where 83% of the intended acreage was sown versus the average 79%.

Wheat growth has been excellent on early stands over much of Texas and Oklahoma. Condition improved in Kansas and Nebraska; and variable but generally good in South Dakota. Dry conditions still prevail over much of the Northern Plains and a protective snowcover is needed to keep wind erosion at a minimum. Winter wheat condition was mostly good in Colorado, but high winds caused some damage in the northeast.

In Washington, much of the winter wheat has emerged, but stands are spotty. Further germination and emergence will be slow without more moisture.

**CORN:** Rain, snow and high moisture content of the grain slowed harvest in many areas of major corn producing States, however progress advanced 8 points. By November 17th, harvest of the Nation's corn crop was 78% complete, equaling normal progress but continuing much behind the 88% pace in 1973.

The Corn Belt harvest advanced to 77% complete on the 17th slightly ahead of the average level but short of the 87% in 1973. The early frost on late planted corn continues to cause problems of high moisture, mold, kernel sprouting and stalk breakage in some areas of the North Central States. Iowa's corn was 78% harvested, compared with 86% in 1973 and the normal 69%. The Illinois crop was 70% harvested versus 90% in 1973 and the normal 78%. Harvest was mostly done in Minnesota except in the southeast; 90% in Nebraska and 80% in Ohio. Indiana trails all other Corn Belt States with only 50% harvested. Harvest in the South Atlantic States was 92% complete and the South Central States 85%.

**COTTON:** Cotton harvest made good progress in much of the Delta and South Atlantic States but wet field conditions kept pickers at a standstill until late in the week in Oklahoma and Texas. Frost on the 14th killed stalks, foliage, and immature bolls in Arkansas and hit some fields in Oklahoma.

Cotton harvesting in the 11 Southern States advanced 5 points to nearly 49% complete. Last year and average progress was 55% picked by the 17th. Harvest was only 30% done in Texas, behind both last year's 38% and average 35%. Bolls are very slow opening in Tennessee and Arkansas. Harvest was 76% complete in Alabama where second picking was underway in many fields. Picking was 75% done in Louisiana versus 48% in 1973, and 70% in Mississippi versus 78% normally harvested.

Nearly ideal weather in the Western States permitted steady harvest progress. In California cotton harvest was moving well. Harvest was active in Arizona and gins in Yuma County were overloaded. Harvest was over two-thirds complete in the western and central areas of the State.

Cotton was 20% harvested in New Mexico versus 50% in 1973.

**SOYBEANS:** Soybean harvesting was hampered by rain and wet fields in some States east of the Mississippi River, but overall progress advanced 6 points. By November 17th, 83% of the Nation's soybean crop was harvested, about normal for the date, but behind last year's pace of 88%. Harvest in the Corn Belt gained only 2 points and was 93% finished on the 17th, equal to average progress but trails the excellent harvest in 1973 of 98%.

Harvest was delayed in much of Indiana and Michigan and slow in Missouri. Soybean harvest was nearly finished in Illinois, but soft fields slowed completion. Soybean harvest was virtually done in Iowa, 96% complete in Wisconsin, 67% in Missouri, and 55% in Kansas.

Southern soybean harvesting advanced 14 points to 64% complete versus 68% a year earlier and the average 63%. Harvest was 82% done in Louisiana, 68% in Mississippi and 52% in Arkansas. Harvesting progress was behind in all the South Central States except Alabama and Mississippi.

**OTHER CROPS:** Fall plowing was behind last year's excellent pace in most North Central States but added soil moisture supplies in some States will aid the situation.

Sorghum harvest resumed in Oklahoma and Texas late in the week. Harvest was 95% finished in Nebraska, 76% in Texas, 50% in Kansas and 42% in Oklahoma.

Flue-cured tobacco sales were about finished in Virginia. Farmers were busy stripping burley tobacco with 10% completed in Ohio and 33% in Kentucky. In Tennessee 57% was stripped versus last year and normal progress of 70%.

The sugarcane harvest was 44% complete in Louisiana, slightly ahead of normal. In Florida, sugarcane was in good condition and harvest was underway.

**FRUITS AND NUTS:** Florida citrus trees were in good condition, but moisture was short in all areas and trees were depending on irrigation. Non-irrigated groves were showing stress. Harvest was active and increasing. Citrus harvest increased as groves dried out in Texas. Fruit quality continues well above average. Harvest of California wine grapes was limited. Grapefruit and early Navel orange harvest was starting.

**VEGETABLES:** Broccoli, cauliflower, and celery harvests were active in California; lettuce harvest was winding up on westside but active Desert; tomatoes were active on the south coast. Harvest was active and increasing in Florida for sweet-corn, peppers, tomatoes, snap beans, celery, lettuce and escarole. Radishes fluctuated seasonally while eggplant and squash held steady.

**PASTURES AND LIVESTOCK:** Cattlemen in most Northern States, western Texas, and parts of New Mexico are already supplementing feeding as winter approaches. Winter wheat pasture was furnishing good grazing in some areas of Colorado, Washington, Oklahoma and Texas. Crop residues were being pastured in Washington, California, and Kansas. Culling herds continued in New Mexico and Nebraska, marketing was heavy in a few States, but farmers are waiting for better prices.

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., Nov. 17, 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 . . .	47	-5	1.5	+ .6	La. Baton Rouge . . .	54	-5	.7	- .2	Youngstown . . .	40	-1	.7	0
Mobile . . .	54	-5	1.2	+ .4	Lake Charles . . .	57	-3	2.1	+1.2	OKLA. Okla. City . . .	47	-3	0	- .3
Montgomery . . .	51	-4	1.2	+ .4	New Orleans . . .	56	-4	1.8	+ .9	Tulsa . . .	46	-4	T	- .4
ALASKA. Anchorage . . .	20	-1	.4	+ .2	Shreveport . . .	50	-6	.4	- .4	OREG. Astoria . . .	43	-4	.7	-1.6
Barrow . . .	-10	-10	.1	0	MAINE. Caribou . . .	38	+6	.8	0	Burns . . .	39	+3	T	- .4
Fairbanks . . .	11	+8	.6	+ .5	Portland . . .	41	+1	1.0	- .2	Medford . . .	43	-1	.3	- .4
Juneau . . .	35	+2	2.4	+1.1	MD. Baltimore . . .	46	1	.8	+ .1	Pendleton . . .	43	+2	.1	- .3
Kodiak . . .	---	---	---	---	MASS. Boston . . .	47	+1	.1	-1.0	Portland . . .	49	+4	1.1	- .2
Nome . . .	23	+7	.5	+ .3	Chatham . . .	46	---	.2	---	Salem . . .	48	+3	.9	- .5
ARIZ. Flagstaff . . .	43	+6	0	- .3	MICH. Alpena . . .	37	+2	.2	- .4	PA. Allentown . . .	42	-1	.9	+ .1
Phoenix . . .	64	+4	0	- .1	Detroit . . .	36	+5	.7	+ .1	Erie . . .	40	-1	.1	- .8
Tucson . . .	61	+2	0	- .1	Flint . . .	37	+2	.5	+ .1	Harrisburg . . .	42	-3	1.4	+ .6
Winslow . . .	45	+1	0	- .1	Grand Rapids . . .	34	+5	1.2	+ .5	Philadelphia . . .	47	0	.4	- .4
Yuma . . .	68	+4	0	0	Houghton Lake . . .	35	0	.4	- .2	Pittsburgh . . .	42	0	.4	- .2
ARK. Fort Smith . . .	45	-6	.1	- .6	Lansing . . .	37	+2	.5	- .1	Scranton . . .	45	+3	1.4	+ .7
Little Rock . . .	47	-4	.2	- .7	Marquette . . .	33	+2	1.0	+ .3	R.I. Providence . . .	44	0	.3	- .8
CALIF. Bakersfield . . .	60	+4	0	- .1	Muskegon . . .	38	+2	1.0	+ .2	S.C. Charleston . . .	52	-5	T	- .5
Eureka . . .	52	0	.2	-1.2	S. Ste. Marie . . .	33	+1	1.0	+ .2	Columbia . . .	51	-3	.2	- .3
Fresno . . .	56	+2	0	- .3	MINN. Duluth . . .	27	+2	.3	- .1	Greenville . . .	45	-6	.4	- .3
Los Angeles . . .	69	+6	0	- .5	Internatl Falls . . .	26	0	.1	- .2	S.D. Aberdeen . . .	30	-1	.1	0
Red Bluff . . .	52	-2	.1	- .6	Minneapolis . . .	31	+2	T	- .3	Huron . . .	30	-3	.1	0
San Diego . . .	66	+5	0	- .3	Rochester . . .	31	+2	.1	- .1	Rapid City . . .	35	-1	.1	0
San Francisco . . .	56	0	T	- .5	St. Cloud . . .	29	+2	T	- .3	Sioux Falls . . .	31	-3	.1	- .1
Stockton . . .	55	+2	0	- .4	MISS. Jackson . . .	49	+7	1.6	+ .7	TENN. Chattanooga . . .	43	-6	.8	- .1
COLO. Denver . . .	38	-2	.3	+ .1	Meridian . . .	50	+4	2.0	+1.2	Knoxville . . .	46	-4	1.2	+ .4
Grand Junction . . .	42	+2	0	- .1	MO. Columbia . . .	39	+5	.1	- .3	Memphis . . .	49	-2	.2	- .7
Pueblo . . .	43	+2	0	- .1	Kansas City . . .	41	+3	0	- .3	Nashville . . .	45	-4	1.6	+ .8
CONN. Bridgeport . . .	47	0	.4	- .5	St. Louis . . .	40	+5	.1	- .5	TEX. Abilene . . .	50	-4	T	- .3
Hartford . . .	41	-1	.8	- .2	Springfield . . .	40	+6	T	- .5	Amarillo . . .	45	-2	0	- .1
D.C. Washington . . .	48	-1	.7	0	MONT. Billings . . .	37	+1	-1	- .1	Austin . . .	55	-4	T	- .5
FLA. Apalachicola . . .	60	-1	.6	0	Glasgow . . .	33	+4	.2	+ .1	Beaumont . . .	57	-3	2.2	+1.2
Daytona Beach . . .	63	-2	T	- .5	Great Falls . . .	39	+4	T	- .2	Brownsville . . .	64	-4	T	- .3
Ft. Myers . . .	70	0	T	- .3	Havre . . .	34	+4	T	- .1	Corpus Christi . . .	63	-2	T	- .4
Jacksonville . . .	56	-5	T	- .4	Helena . . .	34	+2	.1	0	Del Rio . . .	57	-3	0	- .1
Key West . . .	75	0	0	- .6	Kalispell . . .	33	+2	.2	- .1	El Paso . . .	51	-1	0	- .1
Lakeland . . .	67	0	T	- .4	Miles City . . .	34	+1	.1	0	Fort Worth . . .	52	-4	T	- .5
Miami . . .	74	+2	T	- .6	Missoula . . .	33	+1	.1	- .1	Galveston . . .	62	-2	.8	+ .1
Orlando . . .	67	0	T	- .4	NEBR. Grand Island . . .	38	+1	0	- .1	Houston . . .	57	-4	.1	- .8
Tallahassee . . .	53	-6	.3	- .3	Lincoln . . .	38	1	T	- .2	Lubbock . . .	46	-3	0	- .1
Tampa . . .	66	-1	T	- .4	Norfolk . . .	36	1	T	- .1	Midland . . .	52	-1	0	- .1
W. Palm Beach . . .	73	+2	.9	+ .4	N. Platte . . .	35	1	T	- .1	San Angelo . . .	54	-2	0	- .2
GA. Atlanta . . .	47	-5	1.7	+ .9	Omaha . . .	39	+1	T	- .2	San Antonio . . .	55	-5	T	- .4
Augusta . . .	48	-6	.1	- .4	Valentine . . .	35	0	-1	0	Victoria . . .	60	-3	T	- .6
Macon . . .	52	-4	1.0	+ .5	NEV. Ely . . .	42	+8	0	- .1	Waco . . .	53	-5	T	- .6
Savannah . . .	54	-3	T	- .4	Las Vegas . . .	45	+4	0	- .1	Wichita Falls . . .	49	-4	T	- .3
HAWAII. Hilo . . .	---	---	---	---	Reno . . .	58	+5	0	- .2	UTAH. Blanding . . .	43	+4	0	- .2
Honolulu . . .	73	-4	1.1	+ .4	Winnemucca . . .	42	+4	0	- .7	Salt Lake City . . .	45	+6	0	- .3
Kahului . . .	74	-2	1.3	+ .7	N.H. Concord . . .	39	0	.3	- .7	VT. Burlington . . .	42	+4	1.3	+ .6
Lihue . . .	75	0	1.7	+ .4	N.J. Atlantic City . . .	45	+2	.5	- .5	VA. Lynchburg . . .	44	-4	1.0	+ .4
IDAHO. Boise . . .	42	+2	T	- .3	Trenton . . .	46	+1	1.0	+ .2	Norfolk . . .	50	-2	.2	- .5
Lewiston . . .	42	+1	T	- .3	N.MEX. Albuquerque . . .	47	+3	0	- .1	Richmond . . .	45	-5	.4	- .4
Pocatello . . .	38	+2	0	- .3	Roswell . . .	47	0	0	- .1	Roanoke . . .	44	-3	.4	- .2
ILL. Cairo . . .	44	-5	.1	- .8	N.Y. Albany . . .	39	+2	1.4	+ .8	WASH. Colville . . .	36	+2	.3	- .2
Chicago . . .	35	-6	.5	0	Binghamton . . .	37	+2	1.4	+ .6	Omak . . .	39	+4	.2	- .2
Moline . . .	37	-3	.4	0	Buffalo . . .	41	0	2.2	+1.3	Quillayute . . .	48	+4	4.0	+ .8
Peoria . . .	35	-5	.6	+ .1	New York . . .	48	0	.5	- .4	Seattle-Tacoma . . .	47	+2	.6	- .8
Rockford . . .	35	-3	.1	- .5	Rochester . . .	40	1	.4	- .3	Spokane . . .	34	-2	.2	- .3
Springfield . . .	37	-5	.4	- .1	Syracuse . . .	43	+1	1.5	+ .7	Walla Walla . . .	44	+1	.2	- .2
IND. Evansville . . .	43	-2	.3	- .5	N.C. Asheville . . .	42	+5	.7	0	Yakima . . .	43	+4	T	- .3
Ft. Wayne . . .	37	-4	.6	0	Charlotte . . .	47	+5	.4	- .2	W. Va. Beckley . . .	38	-4	.9	+ .2
Indianapolis . . .	38	-4	.7	- .1	Greensboro . . .	46	+3	.4	- .2	Charleston . . .	43	-3	.6	0
South Bend . . .	38	-2	1.1	+ .5	Hatteras . . .	53	+4	.2	- .9	Huntington . . .	44	-2	1.4	+ .7
IOWA. Burlington . . .	36	-4	1.1	+ .7	Raleigh . . .	45	+6	.2	- .4	Parkersburg . . .	43	-3	.8	+ .2
Des Moines . . .	36	-2	.2	- .5	Wilmington . . .	52	+4	.4	- .3	WIS. Green Bay . . .	30	-5	.4	- .1
Dubuque . . .	35	-2	.1	- .2	N.DAK. Bismarck . . .	27	+2	.1	0	La Crosse . . .	36	0	T	- .4
Sioux City . . .	35	-2	.1	- .1	Fargo . . .	28	1	T	- .2	Madison . . .	35	0	.1	- .4
KANS. Concordia . . .	42	0	T	- .2	Williston . . .	28	1	.1	0	Milwaukee . . .	35	-2	.1	- .4
Dodge City . . .	44	+1	0	- .1	OHIO. Akron-Canton . . .	40	+1	.9	+ .3	WYO. Casper . . .	33	-1	.1	0
Goodland . . .	39	0	T	- .1	Cincinnati . . .	42	+2	.8	0	Cheyenne . . .	35	-1	.1	0
Topeka . . .	42	-1	T	- .3	Cleveland . . .	40	+2	1.1	+ .4	Lander . . .	35	+3	T	- .2
Wichita . . .	43	-2	T	- .3	Columbus . . .	42	0	1.0	+ .4	Sheridan . . .	34	+1	.4	+ .2
KY. Lexington . . .	42	-3	1.0	+ .2	Dayton . . .	41	-1	.7	+ .1	P.R. San Juan . . .	81	+2	1.3	0
Louisville . . .	43	-2	.7	- .1	Toledo . . .	37	-3	.7	+ .1					

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:** First snow some northern sections on 14th. Accumulations mostly light across Tennessee Valley, in Huntsville-Decatur area nearly 1 in. fell. Hard freeze followed northern sections morning of 15th, with variations statewide from 19° Winfield to 35° at both Dothan and Mobile. Dreary weather continued through weekend with a change to milder.

Row crop harvest continued. Rains slowed fieldwork but provided moisture for small grains. Soil moisture was adequate in most areas but short in the southeastern corner. Cotton harvest was 76% complete compared with 71% a year earlier. Second picking and scrapping operations underway in many fields. Corn harvest 88% complete, 84% same time in 1973. Combining of soybeans 79% done, 69% was harvested last year by same date. Progress of land preparation and seeding of small grains made fair progress. Statewide 87% of expected acreage planted. As pastures are becoming seasonally short, cattlemen supplementing feed with hay.

**ARIZONA:** High pressure mostly warm, dry. Upper level trough produced high clouds on 17th. Temperatures 2 to 4° above normal all areas, no precipitation recorded.

Cotton harvest active. Yuma County gins overloaded. Rains Pima County, some dropping. Harvest 65 to 70% western, central and 30% complete southeast. Sorghum harvest active. Sugarbeets good progress, Yuma County. Harvest Cochise County to end this week. Alfalfa hay being harvested western, central areas. Lettuce harvest active Pima County, beginning Yuma. Planting thinning spring lettuce, Yuma. Lettuce, cabbage, broccoli good progress. Navel oranges, lemons, Orlando tangelos, Algerian tangerines, grapefruit picking Salt River Valley. Lemon, grapefruit harvest Yuma. Cattle, sheep fair to good. Forage average, water normal.

**ARKANSAS:** Mild first of week and weekend, cold midweek. Averages: 44° north to 52° south, 3 to 8° below normal. Rainfall first of week and again on weekend.

Killing frost on 14th ended vegetative growth. Rains limited harvest to latter half of week. Soil moisture surplus. Cotton picking progressed slowly. Frost killed stalks, foliage, immature bolls, 83% bolls open, unchanged from last week, 57% harvested, 68% in 1973. Rice 98% harvested. Soybean combining 52% complete, 6 points ahead 1973. Wet soils delayed harvest. Corn, sorghum harvest complete. Pastures average condition.

**CALIFORNIA:** Precipitation limited few showers 9th, 14th northern mountains and along north coast. Night and morning fog Central Valley, other areas was generally fair, warm weather. Temperatures averaged above normal most areas, especially along south coast where highs were in 90's at midweek.

Small grain seeding active. Milo, corn harvest ending. Rice harvest almost complete. New sugarbeets doing well. Alfalfa cutting light. Cotton harvest moving well. Limited wine grape, Emperor harvest southern parts. Walnut, almond harvests virtually complete. Good quality reported date harvest continued. Avocado harvest gaining momentum. Grapefruit coloring, some selective picking. Tangerines coloring, Fairchild variety harvest near completion. Early Navel oranges being picked, harvest should increase in December. Desert lemon

harvest half over, statewide picking on increase, harvest seasonally light but exceeds previous years.

Broccoli, cauliflower active, quality good. Celery active. Central Coast, quality good. Lettuce winding up westside, active desert, good quality. Tomatoes active south coast. New grass growth started with improved moisture, but more rain needed. Many areas are reporting poor to fair range and pasture conditions. Supplemental feeding continues. Fall movement cattle to market underway but slow as result of market conditions. Cattle on feed numbers decline. Sheep on feed currently on alfalfa, stubble, beet tops and freezer bean fields. Fall lambing underway, predator activity reported. Movement mature turkeys to slaughter continues.

**COLORADO:** Storm moving through State midweek brought precipitation mainly north and west. Snowfalls 1 to 5 in. mountains and locally northeast. Strong winds 13th; frequent gusts to 50 mph mountains and Eastern Plains and up to 70 mph along eastern slopes. Temperatures averaged 1 to 6° above normal west and from 4° below to 2° above normal east. Cold air intrusion midweek dropped highs into 30's and 40's northeast on 13th and southeast on 14th.

Generally ideal harvest weather eastern plains. Corn grain 88% harvested. Sorghum grain 54% combined. Winter wheat condition mostly good although high winds caused some damage northeast. Few fields winter wheat being pastured. Livestock generally good condition. Marketings heavy some locales.

**FLORIDA:** Colder first half of period with near freezing temperatures and scattered frost over north and central morning of 13th. Partly cloudy skies and above normal temperatures prevailed 16th and 17th. Rainfall amounts were light in widely scattered showers except some locally heavy amounts northwest and southeast coast.

Soil moisture continues short. Harvest of soybeans, cotton continues active. Corn harvest nearing completion. Dry soils delayed planting small grains and winter grazing. Sugarcane in good condition, harvest underway. Pastures poor to severe drought conditions. Cattle and calves fair to good condition. Citrus very good tree condition, moisture short all areas. Trees depending on irrigation, non-irrigated groves showing stress. Harvest active and increasing. Sweetcorn moving at steady pace, cucumbers declined. Peppers, tomatoes increasing. Snap bean volume good, celery gaining momentum. Lettuce, escarole picking up. Radishes fluctuating seasonally. Eggplant, squash steady.

**GEORGIA:** Temperatures generally below normal, ranging from 1 to 2° below normal west to around 5° below east central sections. Precipitation mostly light and spotty in central and south sections, averaging near 0.25 in. or less. Precipitation more general in north with amounts near 1.00 in.

Soil moisture short to very short, particularly south. Fall seeding and pasture condition suffering due to inadequate moisture. Harvesting continuing. Small grains 67% seeded. Pecans 40% harvested. Cotton 82% harvested. Soybean harvest 69% completed. Corn 87% harvested.

**HAWAII:** Rain, wind and cool weather unfavorable for crop progress most areas. Winds caused some bruising to crops in exposed areas. Farm operations difficult because of wet fields. Vegetables in adequate supply. Banana and papaya production declining gradually. Pastures improving, cattle condition good. Sugar harvesting nearing end for most plantations. Pineapple operations active but harvesting light.

**IDAHO:** Weather unsettled with scattered showers and fog, mainly Panhandle. Light snow central mountains and south early week. Temperatures near or slightly above normal all areas. Highs upper 50's, lows from 17 to 33°. Light precipitation north and east.

Good weather prevailed for outdoor work. Sugar-beet and field corn harvests, fall plowing, seeding of winter grains nearly completed. Onion and potato marketing continues. Open weather provided good grazing for livestock. Moving sheep to desert areas.

**ILLINOIS:** Temperatures 2 to 5° below normal. Precipitation less than 0.10 in. to more than 1.00 in., heaviest amounts extreme west. Early snow amounts ranging from trace north to 5 in. west and central.

Corn harvest 70% complete, 90% 1973, 1971-73 average 78%. Progress good considering rain and snow. Reporters indicated high moisture, mold, kernel sprouting, stalk breakage problems with late-planted corn. Most reports indicated unharvested corn standing well. Soybean harvest nearly complete, soft field conditions delay harvest completion. Grain sorghum harvest 60% complete. Winter wheat seedings good to excellent condition. Plowing 1975 corn and soybean acreage 37% complete, 52% 1973, average 44%. Adverse weather limited progress. Pastures supplying 45% roughage requirements, condition fair to good. Snowfall reduced availability of roughage. Soil moisture 4% short, 54% adequate, 42% surplus. Fieldwork: 2.5 days suitable.

**INDIANA:** Considerable showers until weekend. Snowstorm on 13th left several in. of snow central and north; melted over weekend. Rainfall averaged 0.30 in. southeast, 0.50 in. southwest, 0.60 to 0.90 in. central and north. Temperatures 6° below normal. Extremes: 17° on 16th to 56° on 13th.

Fieldwork averaged 2 days. Topsoil and subsoil moisture mostly adequate to surplus. Corn 50% harvested; 70% average, 85% in 1973. Quality poor, harvest slowed by high moisture. Soybeans 90% combined; 100% in 1973, 50% in 1972. Wheat stands mostly good. Land for spring seeding 25% plowed, 35% in 1973.

**IOWA:** Temperatures averaging 3° below normal south-east to normal elsewhere. Snow blanketed most of State on 13th with 1 in. west central to 5 in. south-east. However, week's precipitation was below average. Scattered snow flurries on 3 other days and some sunshine remaining 3 days. Snow and rain slowed fieldwork. Days suitable for fieldwork 3.9, average 4.4 days. Corn harvest progressing at steady pace and soybean harvest complete except for a few late fields. Seventy-eight percent of the corn harvested, average 69%. Later corn is wetter and of poorer quality than corn already harvested. Grain sorghum harvest 86% complete, average 83%. Fall plowing for 1975 crop is 40% complete. Topsoil moisture 11% short, 77% adequate, 12% surplus.

**KANSAS:** Average temperatures ranged from 3° above normal northwest to 2° below normal southeast and

south central. Precipitation first of week averaged from 0.25 to 0.50 in. east to lesser and well scattered amounts west.

Harvest row crops gained momentum as fields begin to dry. Dry weather still needed to complete harvest. Winter wheat continued to improve. Sorghum grain harvest 50% complete, 80% 1973 and average. Corn acreage 85% harvested, 70% year earlier, 80% average. Soybean 55% harvested, 85% 1973, 90% average. Some cattle grazing stalk fields and wheat pasture.

**KENTUCKY:** Temperature normal to a few degrees below. Precipitation averaged 0.75 in. west to 1.25 in. east.

Rain again slowed harvest operations, only 3.5 days favorable for fieldwork. Soil moisture generally adequate for fall seedings and pasture crops. Corn harvest 84% complete, week behind 1973. Soybean combining active, reached 75% mark, 10 days behind 1973, over 50% crop going directly to market. Farmers busy preparing crop for burley market, opening November 25th, stripping nearly 33% done by mid-November, slightly behind last couple years.

**LOUISIANA:** Temperatures 1 to 6° subnormal, largest departures north. First freeze of season over much of State. Extremes: 77° November 17th Boothville and 25° November 15th Winnfield. Precipitation early and late in week, 0.33 to 2.00 inches statewide.

Rains delayed cotton and soybean harvest. Fieldwork possible 4.1 days. Soil moisture generally surplus north, adequate south. Fall plowing, seeding, fertilizing fair progress, mostly in south. Cotton harvest slow, 75% picked compared with 48% 1973 and 70% normal. Yields on recent pickings poor. Soybean harvest 82% complete, 65% 1973, 78% 1972, yields good. Sugarcane harvest 44% complete, slightly ahead of normal. Sweetpotato harvest virtually complete. Harvesting cabbage and shallots New Orleans area. Setting strawberry plants Hammond area. Small grain seeding 80% complete, stands good. Pastures near average. Cattle fair to good, some losing weight.

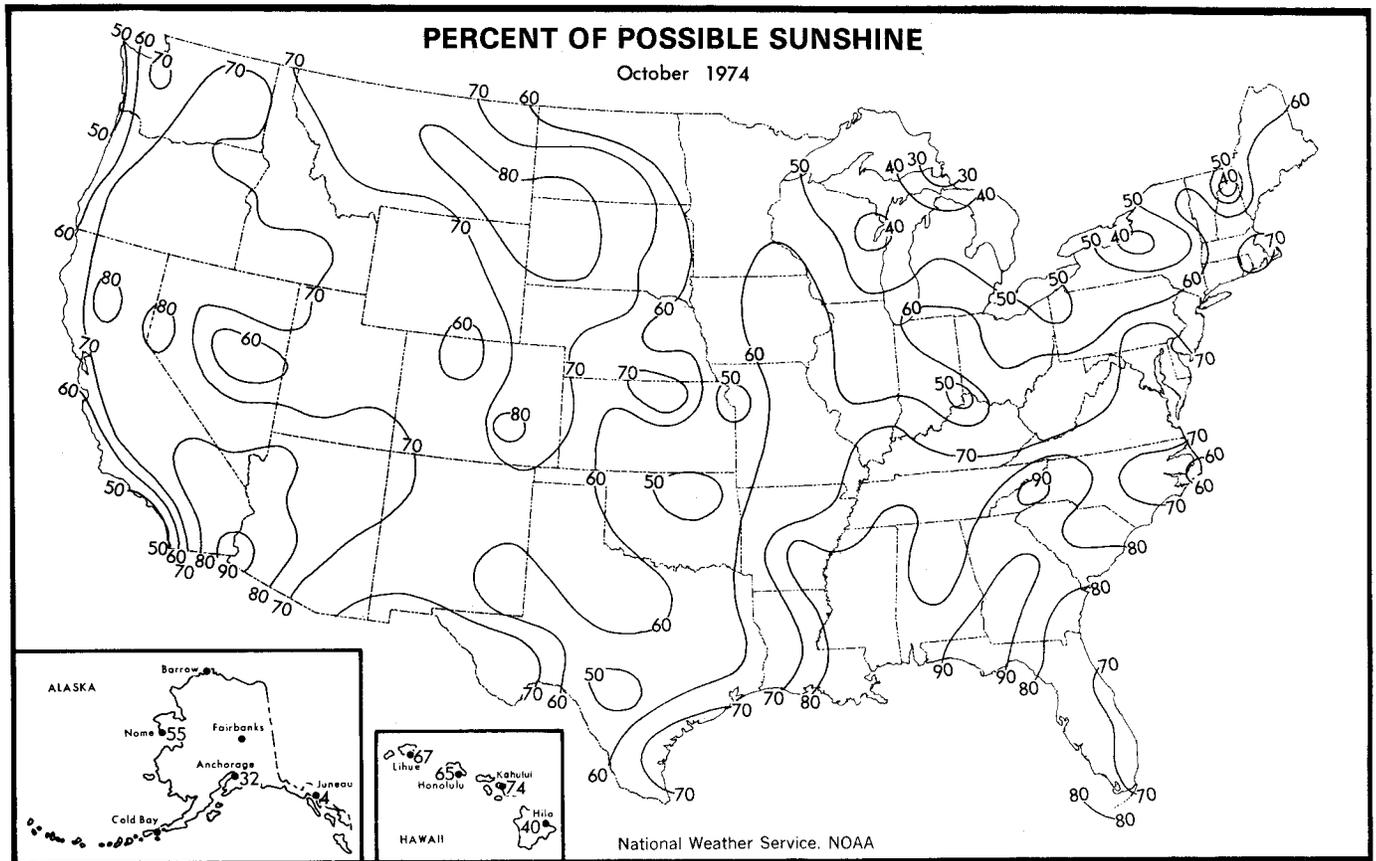
**MARYLAND AND DELAWARE:** Temperatures near normal. Highs 60's and 70's. Lows varied from 20 to mid and upper 30's. Precipitation all areas, amounts 0.09 to 1.93 in. Heaviest western and north central Maryland. Weekend cold, scattered precipitation with 4 in. snow Garrett County.

Harvest progress good. Corn 93% harvest, same as 1973, average 91%. Soybean harvest 84%, 1973 86%, average 81%. Fall seeding small grains nearly complete. Soils too dry for good development. Topsoil moisture short to adequate, subsoils also dry. Pastures below average.

**MICHIGAN:** Temperatures averaged 0 to 6° below normal. Precipitation totaled 0.50 to 1.00 in. southern and western lower and less than 0.50 in. eastern lower with 1.00 to 2.00 in. in upper peninsula. Most of southern precipitation fell as snow.

Snow halted corn harvesting. Soil moisture mostly adequate. Fieldwork averaged 3 days. Grain corn 65% harvested, 15% over last week. Moisture content still high, some mold. Soybeans made little progress 94% harvested, still ahead of average. Sugarbeets harvest complete. Winter wheat good most areas. Fall plowing 55% completed, 30% last week. Pasture feed short to average, mostly short. Fruit and vegetable harvest mostly completed.

**MINNESOTA:** Temperatures near normal to 3° below normal, with afternoons in 40's and 50's and morn-



ings 20's and low 30's. Ice forming on northern lakes. Precipitation continues below normal except northeast, where rain changed to snow on 14th and 15th. Isabella recorded 9 in. with 1 to 2 in. new snow in area. Elsewhere less than 1 in.

Because of early freeze, harvesting is mostly completed. Corn combining about done except southeast, 1973 95%, average 84% complete. Other farm work mostly preparing for winter schedule.

**MISSISSIPPI:** Average temperatures about normal but many counties cooler than normal varied from 10° warmer to 12°. Extremes: 78 and 19°. killing frost most of State late week. Scattered rains, with greatest 24-hour total of 2.15 in.

Soil moisture mostly adequate to surplus. Fieldwork: 3.3 days suitable. Cotton 70% harvested, normal 78% harvested. Soybeans 68% harvested, normal 67% harvested. Corn 89% harvested, normal 87% harvested. Soybeans, corn, pastures, and livestock in mostly good condition. Cotton and sorghum in fair condition. Pecans are in poor to fair condition.

**MISSOURI:** Weather wet and cool compared to normal. Temperatures averaged from normal to 5° below; rainfall totals were mostly from 0.75 in. to over 3.00 in. First general hard freeze of fall occurred 14th and 15th, when lows ranged from 19 to 28°.

Fieldwork: 2 days suitable. Corn 69% harvested, 75% 1973, 71% average. Grain sorghum 60% harvested, 84% 1973, 74% average. Soybeans 67% harvested, 90% 1973, 76% average. Cotton 69% harvested, 84% 1973, 73% average. Fall seeding 83% complete, 79% average.

Fall plowing 41% complete, 49% average. Soil moisture adequate to surplus, pastures fair to good condition.

**MONTANA:** Temperatures averaged slightly above seasonal normal with highs in 50's. Precipitation a little above normal southeast, elsewhere below normal with only scattered light amounts.

Winter wheat remains fair to good, but dry some areas. Very little wind damage to winter wheat so far. Protective snowcover mostly poor. Grazing open. Winter ranges mostly fair to good. Stockwater generally adequate. Nearly 15% cattle and sheep on supplemental feed.

**NEBRASKA:** Temperatures below normal early and midweek, above normal later. Rainfall general but light except extreme southeast up to 1.00 in.

Fieldwork: 5.6 days suitable. Topsoil moisture supplies short 57%, subsoil moisture supplies short 99%. Corn 90% harvested, normal 75%, 1973 80%. Sorghum 95% harvested, normal 80%, practically complete in 1973. Wheat condition improved, mostly fair to good. Range and pasture feed supplies short 92%. Culling of cows continues.

**NEVADA:** Unseasonably warm, 6-10° above normal entire State. Dry weather prevailed, no precipitation. Temperature extremes: 75° Las Vegas, 19° Winnemucca Battle Mountain, Elko and Ely.

Fall grains favored by mild weather. Cotton harvest continued Pahromp Valley.

**NEW ENGLAND:** Scattered showers occurred throughout week, accumulations up to 1.09 in. southwest

Maine and 1.16 in. northwest Vermont, other States traces. Warm November 11th over all New England becoming seasonably cold by November 16th.

**NEW JERSEY:** Temperatures averaged 1 to 2° below normal. Averages were: 41° north, 44° south and 45° coastal division. Extremes: 20° at Meshanic Station on 17th and 63° at several stations on 14th. Weekly rainfall averaged 1.50 in. north, 0.80 in. south and 0.70 in. coastal divisions.

**NEW MEXICO:** The driest week over the State this year since late March. Temperatures averaged very near seasonal normals with some cooling over Eastern Plains on 14th and gradual warming into weekend.

Lack of rainfall permitted drying fields. Harvest grain sorghum east side increasing, about 35% complete, 95% normal. Cotton picking active, 20% harvested, 50% 1973. Pecan raking starting, other crops harvest mostly completed. Livestock fair to good, calves moving to market, culling herds. Some ranchers are supplementary feeding.

**NEW YORK:** Temperatures averaged near to above normal. Precipitation was moderate to heavy across the State. The week began mild and dry. Water-town reached 65° on 11th for the weekly high. Rain throughout on 12th, starting a midweek wet spell. Binghamton, Utica, Syracuse and Boonville recorded over 1.00 in. of rain by 13th and significant amounts were reported from most locations. The highlight of the week occurred on 15th as colder, moist southwesterly winds brought flurries to much of the State. Heavy snow squalls developed. Over two feet of snow fell just north of Buffalo. The weekly low of 21° occurred 17th at Albany.

**NORTH CAROLINA:** Dry east but between 0.25 and 0.50 in. melted precipitation fell over western Piedmont and mountains. Temperatures averaged above normal early week but dropped to subnormal.

Fieldwork averaged 4.4 days. Soil moisture, 92% short to very short. Pasture condition fair. Labor supply adequate. Corn 93% harvested, 1973 93%, average 76%. Cotton 74% picked, 1973 80%, average 71%. Soybeans 62% combined, 1973 67%, average 44%. Sorghum grain 83% harvested, 1973 88%. Small grains 68% planted, 1973 75%, average 74%. Lespedeza seed 96% combined, 1973 88%, average 61%.

**NORTH DAKOTA:** Temperatures averaged 1 to 2° below normal northwest and south central, about 2° above northeast near normal elsewhere. Highs in 40's, lows in low teens. Snows of 1 to 4 in. snow western third on 12th and 13th.

Winding up harvest sunflowers, corn and application of fertilizers eastern portion. Field operations halted western areas because of snow. Some cullage cows, particularly where roughage supplies short. Grains being transported to deficit areas. Pastures furnishing very little feed with supplemental feed and/or roughage necessary.

**OHIO:** Rainfall across State on 11th, light snow 12th through 15th. Precipitation range: Frost 1.36 in. Chesapeake; least, 0.65 in. Dayton. Temperatures below normal 12th to 15th.

Corn harvest continued, high moisture still problem, 80% harvested, about normal, 90% last year. Popcorn, 90% complete. Winter wheat mostly good condition. Tobacco 10% stripped. Soil moisture supplies rated adequate or better. Fieldwork: Under 4 days favorable.

**OKLAHOMA:** Temperatures generally 3° subnormal,

except 4° below normal southwest and 2° below central. Precipitation averaged less than 0.10 in. Panhandle to 2.25 in. southeast. Weekend mild with light rains southeast.

Harvest progress was slow and reseeded operations light because of muddy fields. Wheat condition good 95% up to stand, 1 point ahead of 1973 and average. Fall planted oats and barley 93% up and in mostly good condition. Barley seedlings light. Sorghum harvest slow 42% combined, 70% 1973 and average for date 73%. Birds causing some loss. Some cotton hit by frost, only 4% picked, 15% 1973 and average 24%, condition poor to good. Peanuts loose quality from wet ground, 64% harvest compared 86% 1973 and average. Range growth slowed, condition mostly good going into winter.

**OREGON:** Temperatures above normal, maximums upper 50's and 60's. Minimums upper 30's and lower 40's in west, teens and 20's in east. Precipitation below normal, 0.16 in. to 0.90 coast, interior valleys, 0.20 to 0.30 in., east less than 0.10 in.

Fall seeding and land preparation continuing. Good stands of fall grains emerging. Eastern areas need more rain. Filberts and walnuts continue to be harvested. Fruit orchards continue annual clean-up activity. Dry ranges and pastures are receiving some relief from recent rains. Feed and hay supplies are adequate. Livestock moving slow to market. Many ranchers holding on to feeder calves and waiting for better prices.

**PENNSYLVANIA:** Seasonably cool most of week with unsettled conditions first half. Maximum temperatures mostly 40's and 50's, minima 20's and 30's. Extremes: 71° on 11th, 16° on 15th. Precipitation mostly as rain first half totaled from 0.40 in., southwest and southeast to 1.50 in. Susquehanna Valley. Windy with snow flurries higher elevations midweek with up to 1 in. occurring some mountain areas. Farmers finishing corn harvesting and doing routine winter chores.

**PUERTO RICO:** Island average rainfall 3.01 inches, 1.58 inches above normal. Shower and thunder-shower activity continued, with heaviest rainfall amounts recorded mostly in south coastal areas and southern slopes. Some local flooding occurred in low-lying areas east, south coasts and western/interior. Temperatures averaged about 77 to 79° on coasts, 73° interior, station temperatures ranging from 81.4°. Extremes: 92°, 58°.

Field operations in sugar cane plantations practically paralyzed due to continued rains. Coffee harvest interrupted and ripe beans that have fallen from trees were considered lost due to rains. Soil preparation for new tobacco. New plantings delayed. Pastures in good condition but too wet. Armyworm continued affecting them. Food crops badly affected by excessive rains. Humidity causing some diseases. Harvest delayed due to poor condition of roads.

**SOUTH CAROLINA:** Rainfall below normal all zones as severe dry trend continued.

Soil moisture short to very short throughout. However, general rains beginning late 17th will help some. Cotton harvested 84%, 82% 1973, 83% 5-year average. Soybeans harvested 65%, 56% 1973, 40% 5-year average. Sorghum harvested 83%, 63% 1973, 71% 5-year average. Pasture condition at lowest. Small grain planting slow. Wheat planted 43%, 49% 1973, 46% 5-year average. Oats planted 61%, 64% 1973, 58% 5-year average.

**SOUTH DAKOTA:** Snow fell over State on the 6th, 1 to 3 in. Moisture content from few hundredths

in south 0.25 in. north. Temperatures averaged from 6° below normal east to 4° above west. Extremes: 65° Hot Springs 11th, 8° McLaughlin and Summit 15th.

Moisture supply short. Livestock in good condition. Winter wheat condition variable, but generally good. Snow cover needed as fall growth was limited in most areas.

**TENNESSEE:** Rainfall most sections through midweek and over weekend, 1.00 to 3.00 in. Lowest temperatures of season on 15th. First killing frost southwest, hard freezes in middle and east.

Warm-dry weather needed for harvest. Soybeans 60% harvested; 67% 1973 and average. Corn 80% picked, nearly same as last year and average. Cotton very poor condition, bolls extremely slow opening, 59% picked, 1973 78%, average 70%. Wheat 83% sown, average for date. Early sown good condition. Late sown poor germination. Tobacco 57% stripped. Last year and normal 70%.

**TEXAS:** Rainfall light, near normal across southeast, below normal other areas. Much western half reported no precipitation. Temperatures near normal across Panhandle, High Plains, slightly above normal southwest. Eastern half 2 to 6° below normal.

Harvest cotton, corn, sorghum, soybeans resumed on High Plains toward end of week. Seeding wheat, oats nearing completion, early stands excellent growth furnishing good grazing across State. Blacklands, Cross-Timbers wet weather delay progress peanut crop. Major crops percent planted: Wheat 94, 1973 97, average 97; oats 94, 1973 96, average 93; flax 30, 1973 --, average --. Major crops percent harvested: Cotton 30, 1973 38, average 35; corn 88, 1973 98, average 99; sorghum 74, 1973 96, average 92; soybeans 56, 1973 53, average 67; peanuts 69, 1973 88, average 91; sugarbeets 49, 1973 91, average 63.

High Plains: Freezing temperatures ended crop year for warm season vegetables. Carrot, dry navy bean harvest continues. Trans-Pecos: Tomato harvest complete. Light harvest cabbage started. Lettuce harvest complete. Carrots growing well. East: Sweetpotato harvest virtually complete. Continuous rains recent weeks have prevented harvest of all intended acreage. Harvest fall vegetables, turnips, collard greens, green onions continues. Coastal Bend: Cucumber harvest underway. Spinach planting interrupted in San Patricio, Arkansas counties by rains during week. Fall watermelons near failure due cold weather. San Antonio-Winter Garden: Cabbage, green beans, peppers, squash, eggplant, cucumbers being harvested. Carrots developing well. Lower Rio Grande Valley: Pepper and cucumber harvest continues, light cabbage harvest started. Lettuce making good progress. Land preparation continues for vegetable crops. Citrus harvest activity increased as groves dried out. Fruit quality continues well above average. Pecan harvest activity gained momentum during week, now about one fourth complete for State.

Wheat, oats excellent growth, grazing increasing. Livestock going into winter good to excellent condition. Ranchers started winter feeding programs western areas. Some livestock losses Blacklands result flooding this week. Screwworm cases continue South Texas, Lower Rio Grande Valley, serious livestock problem some localities.

**UTAH:** Few light showers early in period. Little or no precipitation during remainder of week until weekend storm of moderate to heavy intensity moved into northwest. Accumulated amounts of moisture generally light. Average temperatures ranged from

near normal to 7° above.

Precipitation improved soil moisture, especially southern areas. Dryland winter wheat greening up. Considerable fall plowing completed. Sugarbeet processing in full operation. Grading, sorting, and marketing potatoes, dry onions, and apples in progress. Breeding range ewes will continue into December. Marketing and shipping cattle and lambs in progress. Turkey processing down from November peak but will increase after Thanksgiving.

**VIRGINIA:** First significant snow mountains, up to 2 in. southwest. Otherwise frequent showers. Rain ranged from 0.50 in. eastern Piedmont and Tidewater area to 1.00 in. southwest and about 1.50 in. north. Extremes: 74 and 14°. Warm early in period to slightly below normal for remainder of week.

Fieldwork: 4.4 days favorable. Topsoil moisture 54% short, 45% adequate, 1% surplus. Corn for grain harvested 85%. Soybeans 79% harvested. Wheat seedings 82% complete. Good progress made seeding small grains. Fall plowing making good progress as recent rains improve conditions. Flue-cured tobacco sales about finished. Stripping and grading fire-cured, sun-cured and burley continues.

**WASHINGTON:** West: Average temperatures 2° above normal. Extremes: 50's, 30's. Rain first half of period. Extremes: 0.30 in. to over 3.00 in. Snow above 3,000 foot level.

Harvesting: Celery, carrots, Christmas trees. Fall turnip, cabbage fields have emerged and look very good. Subsoiling of tulip, strawberry fields almost finished. Canning out raspberries, blueberries. Pruning all caneberrys. Some cattle on fall seeded pastures but most on winter rations. East: Average readings 2 to 6° above normal. Extremes: 50's, 20's. Scattered precipitation one or two days. Extremes: Trace to 0.30 in.

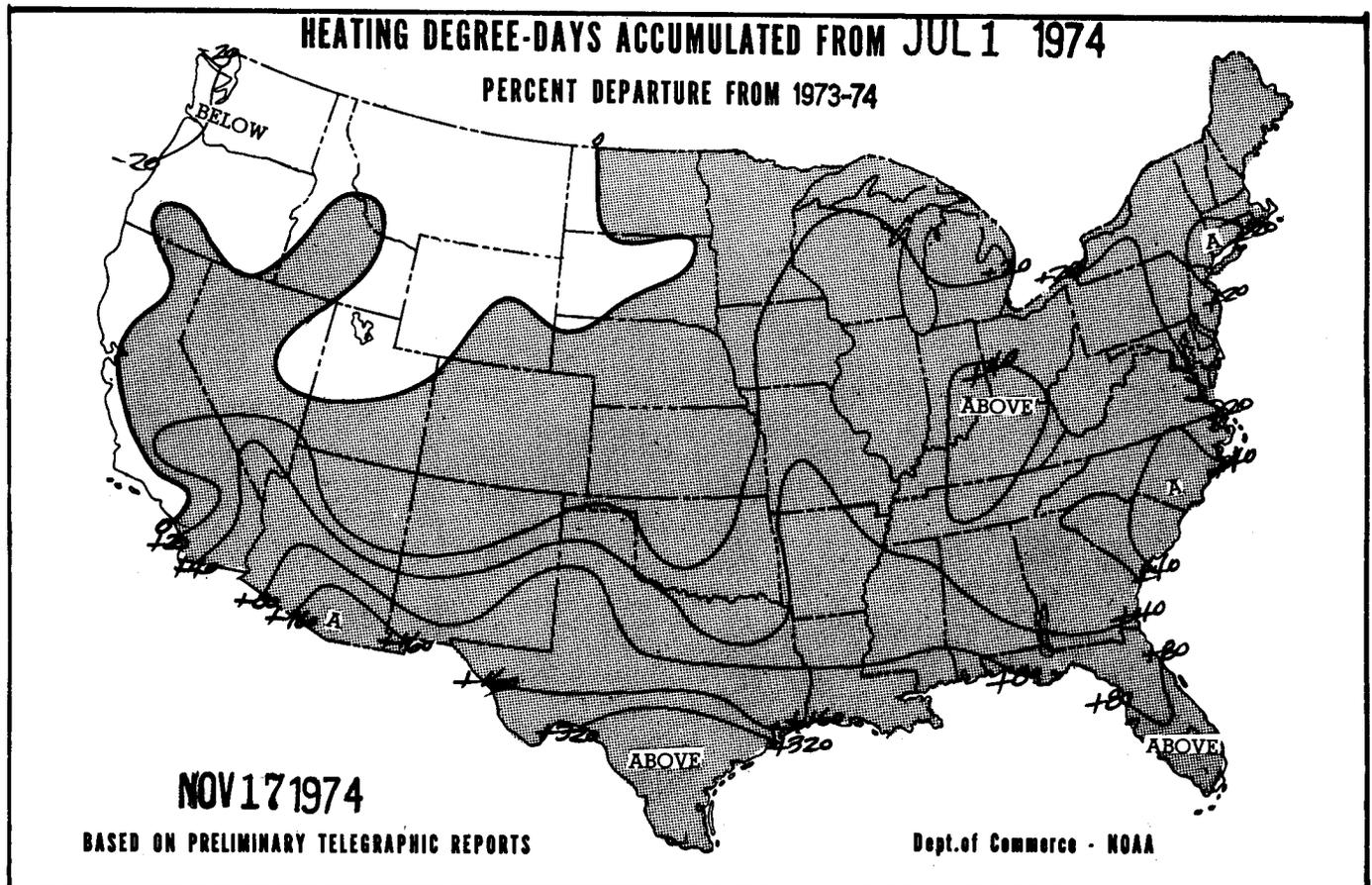
Harvesting field corn, sugarbeets. Fencing off harvested sugarbeet and corn fields for cattle feeding. Other activities: Plowing, fertilizing, spraying greenbugs, hop trellis repair, installation of irrigation systems in orchards, baiting and spraying for mice, pruning pears and stone fruits. Dryland farmers concerned about dry topsoil conditions. Fall seeded wheat has emerged but stands spotty. Further germination and emergence will be slow until additional moisture is received.

**WEST VIRGINIA:** Warm changing to cold midweek. Up to 5 in., snow accumulation, precipitation generally 0.25 to 0.50 in.

Soil moisture 87% adequate, 13% surplus. Fieldwork: 3.6 days suitable. Final corn harvest hampered by high moisture grain. Fall grains improved by warm spells and moisture. Livestock feeding increasing with additional snow cover.

**WISCONSIN:** Temperatures averaged 1 to 2° below normal. Nighttime lows in teens except south. Precipitation generally light except north where several periods of snow occurred. Unofficial reports indicated 30 in. near Hurley; Wassaw had only 1 in., flurries elsewhere.

Corn harvest continuing but south still lags due to high moisture content. Corn for grain 75% harvested, 1973 90%, 1968-73 80%. Some wet corn may be left in fields over winter. Farmers chopping a lot of corn stalks for feed and bedding. Soybeans 96% harvested, 1973 99%, 1968-73 80%. Soybean crop reduced by late planting, dry weather, and early frosts. Fall plowing 60% done, 1973 75%, normal 70%. Moisture conditions better for plowing as soil moisture 25% short, 70% adequate, 5% surplus. Cold temperatures froze top of ground but mild weather on weekend thawed surface again.



Recent rains helped winter grains and new seedings which were stalled by dry weather previously. Farmers that are done with crop harvest are getting prepared for winter. Fall weather was good for outside work.

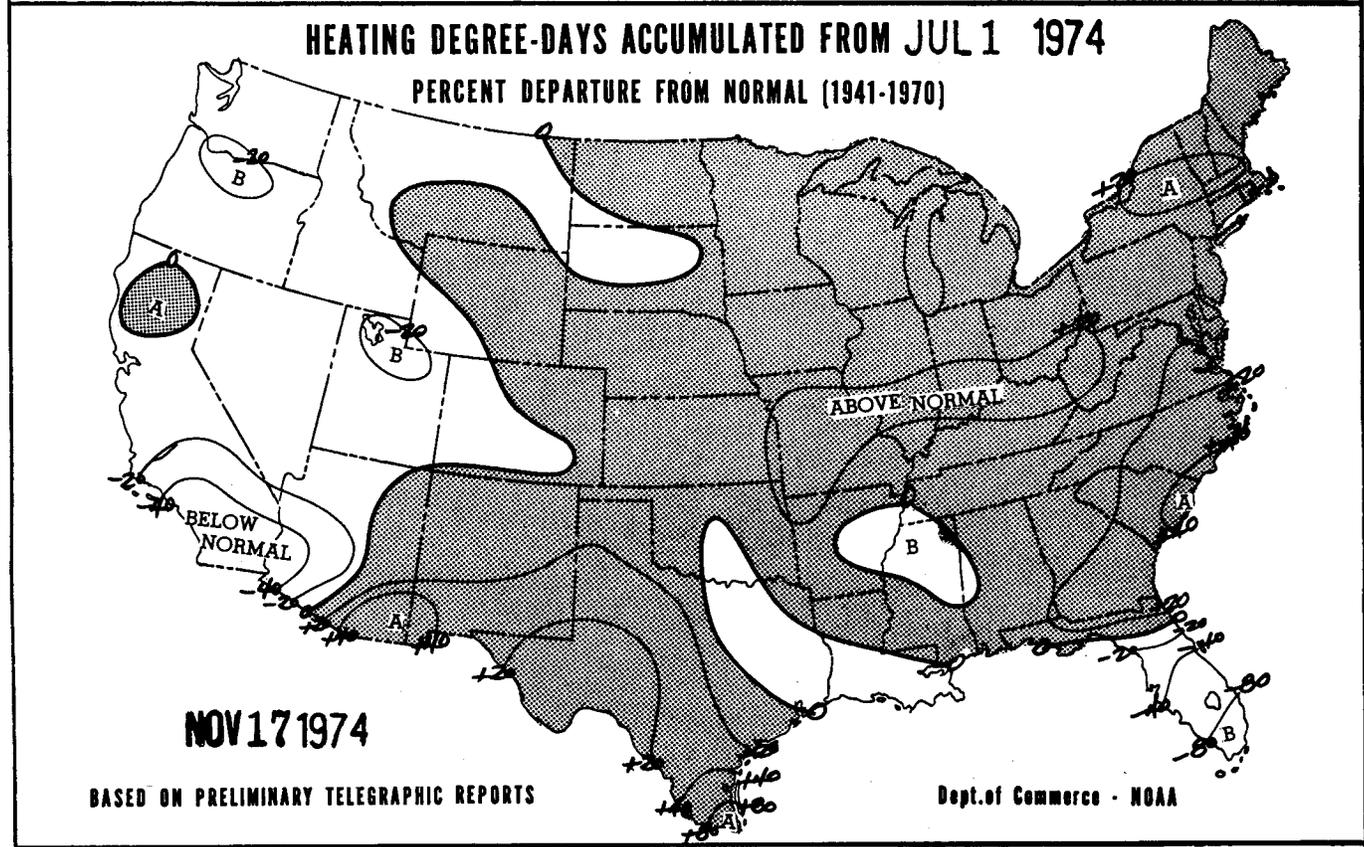
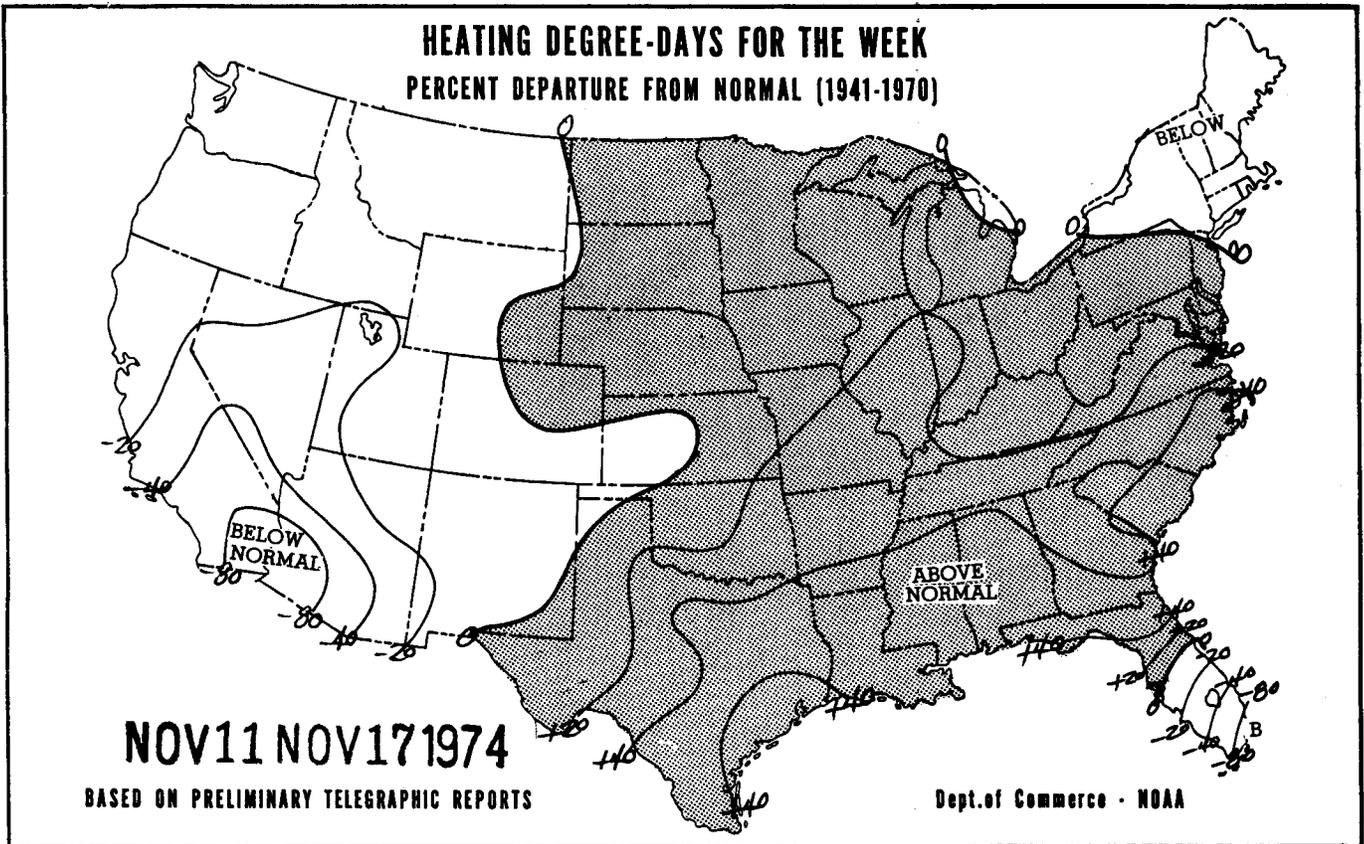
**WYOMING:** Relatively mild early week; inclement weather East last of period. Heaviest precipitation northeast where amounts were generally 0.25 to 0.50 in. Most other locations reported amounts averaging around 0.10 in. Temperatures slightly above normal southwest, slightly below southeast. Otherwise, near normal. East had coolest temperatures of season morning of 14th, dropping to 5 to 10° range.

Few fields corn for grain remained to be picked. Winter wheat condition good. Livestock marketing remained sluggish, some ranchers continue to hold calves. Snow some areas necessitated supplemental feeding. Livestock condition good.

Standard copy for the weekly Weather and Crop Bulletin is prepared by: Richard E. Felch, Lyle M. Denny, Orus W. Byrd, National Weather Service, NOAA; DeLon A. Brown, Nancy J. Burt, Statistical Reporting Service, USDA.

FAX CHART 136

OCT 73



Heating Degree Days (Base 65°) For Week Ending Nov. 17, 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 . . .	125	36	371	38	100	Portland . . .	164	-14	1210	-33	-29	Tulsa . . .	132	26	429	54	93	
Mobile . . .	78	31	168	33	94	MD. Baltimore . . .	130	3	546	-7	-33	OREG. Astoria . . .	85	-44	1047	-143	318	
Montgomery . . .	97	29	269	34	76	MASS. Boston . . .	126	-7	812	136	111	Burns . . .	178	-25	1200	-133	-135	
ARIZ. Flagstaff . . .	151	-47	1241	-146	148	MICH. Alpena . . .	196	-11	1503	39	205	Medford . . .	151	2	703	-114	15	
Phoenix . . .	9	-30	66	-27	38	Detroit . . .	199	29	1043	168	224	Pendleton . . .	151	-44	707	-164	-155	
Tucson . . .	27	-19	169	51	116	Flint . . .	192	10	1114	79	182	Portland . . .	111	-26	644	-237	-140	
Yuma . . .	137	-13	658	62	79	Grand Rapids . . .	216	36	1273	316	360	Salem . . .	121	-17	781	-117	-175	
ARK. Fort Smith . . .	140	42	413	70	99	Houghton Lake . . .	209	-1	1475	65	203	PA. Allentown . . .	160	6	858	85	144	
Little Rock . . .	124	24	343	16	104	Lansing . . .	198	16	1213	217	227	Erie . . .	173	4	1093	92	223	
CALIF. Bakersfield . . .	38	23	135	-43	36	Marquette . . .	220	8	1463	112	221	Harrisburg . . .	158	14	750	92	159	
Eureka . . .	89	2	1300	-13	-108	Muskegon . . .	187	11	1134	130	194	Philadelphia . . .	108	-18	532	-30	2	
Fresno . . .	59	18	229	-21	1	S. Ste. Marie . . .	219	-1	1752	162	233	Pittsburgh . . .	161	0	782	-75	48	
Los Angeles . . .	12	23	72	-136	-11	MINN. Duluth . . .	265	13	1941	280	281	Scranton . . .	158	-6	938	36	10	
Red Bluff . . .	77	0	266	26	-29	Internat'l Falls . . .	269	-6	1859	39	236	R. I. Providence . . .	143	-3	897	120	72	
San Diego . . .	10	-21	54	-76	12	Minneapolis . . .	235	7	1278	45	207	S. C. Charleston . . .	87	27	290	91	138	
San Francisco . . .	59	7	517	-6	-58	Rochester . . .	235	13	1326	111	232	Columbia . . .	97	-21	338	66	132	
Stockton . . .	69	14	252	-7	29	St. Cloud . . .	250	9	1539	184	269	Greenville . . .	94	-2	264	-91	-120	
COLO. Denver . . .	188	10	1030	103	174	MISS. Jackson . . .	107	39	250	16	70	S. DAK. Aberdeen . . .	244	5	1253	-40	-32	
Grand Junction . . .	164	9	712	-50	84	Meridian . . .	101	26	261	-9	96	Huron . . .	247	22	1168	0	27	
Pueblo . . .	154	14	717	-45	42	MO. Columbia . . .	179	35	780	182	206	Rapid City . . .	208	3	1155	1	-73	
CONN. Bridgeport . . .	123	4	657	78	169	Kansas City . . .	167	20	734	144	179	Sioux Falls . . .	233	14	1182	42	120	
Hartford . . .	167	8	977	122	203	St. Louis . . .	172	35	694	143	143	TENN. Chattanooga . . .	154	44	528	100	126	
DEL. Wilmington . . .	137	7	636	67	159	Springfield . . .	171	37	685	127	220	Knoxville . . .	130	23	444	28	45	
D. C. Washington . . .	117	3	448	0	77	MONT. Billings . . .	192	-12	1248	60	-45	Memphis . . .	118	22	343	-8	94	
FLA. Apalachicola . . .	41	6	65	-26	5	Glasgow . . .	225	-25	1349	-92	-95	Nashville . . .	141	27	482	49	177	
Daytona Beach . . .	25	4	28	-11	17	Great Falls . . .	182	-30	1235	86	-181	TEX. Abilene . . .	106	30	321	75	135	
Ft. Myers . . .	5	2	5	-11	5	Havre . . .	217	33	1394	-133	-67	Amarillo . . .	137	8	588	84	181	
Jacksonville . . .	60	25	121	32	42	Helena . . .	219	-13	1598	-67	-68	Austin . . .	65	20	146	15	108	
Key West . . .	0	0	0	0	00	Kalispell . . .	225	-15	1671	-135	0	Brownsville . . .	30	23	49	31	49	
Lakeland . . .	12	-3	15	-14	6	Miles City . . .	214	-12	1214	-39	-29	Corpus Christi . . .	21	4	51	12	51	
Miami . . .	0	0	0	0	0	Missoula . . .	220	-7	1398	-182	-111	Del Rio . . .	53	14	123	12	103	
Orlando . . .	12	-2	14	-12	6	NEBR. Grand Island . . .	185	1	922	49	81	El Paso . . .	92	1	363	-81	167	
Tallahassee . . .	90	44	191	68	78	Lincoln . . .	185	5	846	45	42	Fort Worth . . .	88	25	187	-3	37	
Tampa . . .	18	4	18	-9	9	Norfolk . . .	196	-2	972	8	61	Galveston . . .	29	7	64	9	54	
W. Palm Beach . . .	1	-5	1	-354	1	North Platte . . .	210	10	1135	96	42	Houston . . .	36	3	89	-2	50	
GA. Atlanta . . .	125	33	344	15	66	Omaha . . .	183	11	889	141	123	Lubbock . . .	130	18	512	104	238	
Augusta . . .	115	38	342	76	61	Valentine . . .	209	-2	1135	26	48	Midland . . .	92	11	280	33	89	
Macon . . .	90	21	249	24	83	NEV. Ely . . .	160	-55	1375	-53	-48	Beaumont . . .	54	13	123	4	72	
Savannah . . .	73	17	199	24	39	Las Vegas . . .	50	-30	198	-39	61	San Angelo . . .	79	13	217	6	119	
IDAHO. Boise . . .	158	17	835	-101	9	Reno . . .	136	-36	1075	-6	42	San Antonio . . .	76	38	154	45	129	
Lewiston . . .	160	-11	793	-144	-116	Winnemucca . . .	161	-31	1161	-41	84	Victoria . . .	33	6	71	4	67	
Pocatello . . .	187	-16	1162	-23	-16	N. H. Concord . . .	183	0	1359	219	81	Waco . . .	79	27	157	-1	76	
ILL. Cairo . . .	143	29	470	62	93	N. J. Atlantic City . . .	138	11	685	109	49	Wichita Falls . . .	106	23	268	5	80	
Chicago . . .	211	41	885	138	149	Trenton . . .	127	1	608	44	62	UTAH. Salt Lake C . . .	136	-43	706	-205	58	
Moline . . .	198	21	914	95	138	N. MEX. Albuquerque . . .	121	-20	592	62	64	VT. Burlington . . .	157	-32	1291	105	61	
Peoria . . .	211	39	900	121	179	Roswell . . .	122	-3	574	94	256	VA. Lynchburg . . .	145	23	599	66	101	
Rockford . . .	207	20	983	53	144	N. Y. Albany . . .	178	7	1261	288	204	Norfolk . . .	104	15	374	35	52	
Springfield . . .	195	37	783	102	192	Binghamton . . .	192	11	1261	168	195	Richmond . . .	142	35	576	120	127	
IND. Evansville . . .	154	17	670	103	182	Buffalo . . .	167	-4	1016	36	71	Roanoke . . .	149	25	620	84	119	
Fort Wayne . . .	199	30	951	114	216	New York . . .	114	-4	600	90	122	WASH. Quillayute . . .	122	-23	1302	-113	-368	
Indianapolis . . .	187	28	872	156	272	Rochester . . .	170	4	1098	170	223	Seattle-Tacoma . . .	126	-17	895	-160	-143	
South Bend . . .	189	16	861	-19	183	Syracuse . . .	154	-8	1123	227	174	Spokane . . .	216	11	1205	-60	-96	
IOWA. Burlington . . .	199	26	889	118	208	N. C. Asheville . . .	157	29	628	26	107	Walla Walla . . .	148	-8	710	-58	-81	
Des Moines . . .	203	16	888	27	193	Hatteras . . .	85	25	261	60	62	Yakima . . .	155	-29	953	-131	-186	
Dubuque . . .	210	11	1131	100	210	Charlotte . . .	127	34	461	100	96	W. VA. Beckley . . .	189	30	959	79	185	
Sioux City . . .	206	8	935	4	135	Greensboro . . .	122	9	484	6	2	Charleston . . .	154	21	764	159	177	
KANS. Concordia . . .	163	0	708	11	51	Raleigh . . .	134	34	519	104	171	Huntington . . .	147	14	714	113	204	
Dodge City . . .	147	-6	627	10	61	Wilmington . . .	91	28	297	86	101	Parkersburg . . .	155	19	817	207	222	
Goodland . . .	184	1	991	90	47	N. Dak. Bismarck . . .	266	16	1622	200	65	WIS. Green Bay . . .	240	28	1445	219	336	
Topeka . . .	160	8	699	59	107	Fargo . . .	259	9	1524	135	76	LaCrosse . . .	213	11	1152	-137	255	
Wichita . . .	155	17	568	31	61	Williston . . .	261	6	1550	53	-14	Madison . . .	207	-1	1150	-10	76	
KY. Lexington . . .	158	18	737	147	208	OHIO. Akron-Canton . . .	170	4	904	47	196	Milwaukee . . .	211	17	1119	58	190	
Louisville . . .	151	14	698	126	231	Cleveland . . .	177	18	925	93	219	WYO. Casper . . .	220	3	1379	97	51	
LA. Baton Rouge . . .	77	31	139	-11	73	Columbus . . .	162	4	786	11	140	Cheyenne . . .	210	5	1364	91	24	
Lake Charles . . .	58	19	115	-1	63	Cincinnati . . .	162	17	810	180	171	Lander . . .	208	-25	1352	15	-25	
New Orleans . . .	63	23	106	-17	48	Dayton . . .	164	5	839	116	183	Sheridan . . .	216	-5	1412	79	-36	
Shreveport . . .	100	39	209	10	64	Toledo . . .	193	20	1033	155	179							
MAINE. Caribou . . .	186	-42	1726	21	37	Youngstown . . .	175	7	1034	126	171							
						OKLA. Okla. City . . .	123	15	382	-5	36							

\* Based on 1941-70 Normals.

† Accumulated from July 1, 1974

## WORLD AGRICULTURAL WEATHER WATCH

This summary provides a brief, but concise, review of crop-weather conditions in various parts of the world. This information has been prepared through the cooperative efforts of the Foreign Agricultural Service and Economic Research Service of the U.S. Department of Agriculture, and the Agricultural Weather Support Service office of the National Weather Service, NOAA. In addition to the narrative material, maps showing the weather conditions during October in the USSR appear on the two following pages. Maps for other parts of the world will appear in next week's issue.

**HIGHLIGHTS:** "A DISASTROUS FALL FOR AGRICULTURE" captioned an article by a leading Belgian daily newspaper. And so it has been throughout much of Europe. In many places there have been record rainfall amounts and record numbers of days with rain. In northern Europe it rained, or snowed, practically every day in October. Similar weather has continued into the first two weeks of November. Much acreage remains unharvested with crops deteriorating and rotting in the field. Corn (grain and ensilage), potatoes, sugar beets, forage crops, and even grapes and oats have been affected.

There have also been serious problems getting fall sown crops in and preparing fields for next year. Seeding has lagged and considerable acreage intended for fall seeding will have to wait until spring. Competing with the usual spring-sown crops, a mild dry spring will be needed to handle such an enormous task.

Four typhoons struck Luzon, Philippines during October, and the 5th and most devastating hit November 6-8. Tobacco seedbeds were heavily damaged, but replanting is still possible. Reportedly, damage to rice was small, but harvesting was underway in most areas.

**GRAIN:** Prolonged cold, wet weather has impeded harvest of corn and lowered its quality in much of Europe, east and west. Planting of winter grains has been difficult and in many of these countries planting intentions will never be realized. This places added burden on spring planting, not only in the selection of substitute crops but also the physical difficulty of getting the increased workload completed during the spring. Next spring's weather becomes increasingly important.

Winter wheat seeding was completed in the USSR although a little short of planned acreage. A warm, dry fall in most of the USSR winter wheat region delayed dormancy a couple of weeks later than usual. This extra growth may make the wheat more vulnerable to winterkill.

China has good soil moisture except in Hunan and Hupeh provinces where unirrigated late rice will be affected. In India the summer monsoon has ceased, and many States are too dry for a good start on winter grains. The Indian Government has given high priority to electricity for pump irrigation, but at the price of curtailed fertilizer production.

Dry weather continues to delay seeding in Iraq, Syria, Bulgaria and much of Spain, although some acreage has been "dusted in."

West Africa, aided by favorable weather, is harvesting good crops of millet and sorghum. October rains relieved dry conditions and improved grain prospects in southern areas of Chile. Brazil's dry season extended longer than usual in Sao Paulo delaying seeding of "summer crops". Winter wheat harvest is underway in Rio Grande do Sul where favorable weather enhanced production prospects. Drought continued in the southern portion of Argentina's wheat region to the detriment of maturing grain. Further north in Argentina corn is off to a good start with adequate soil moisture.

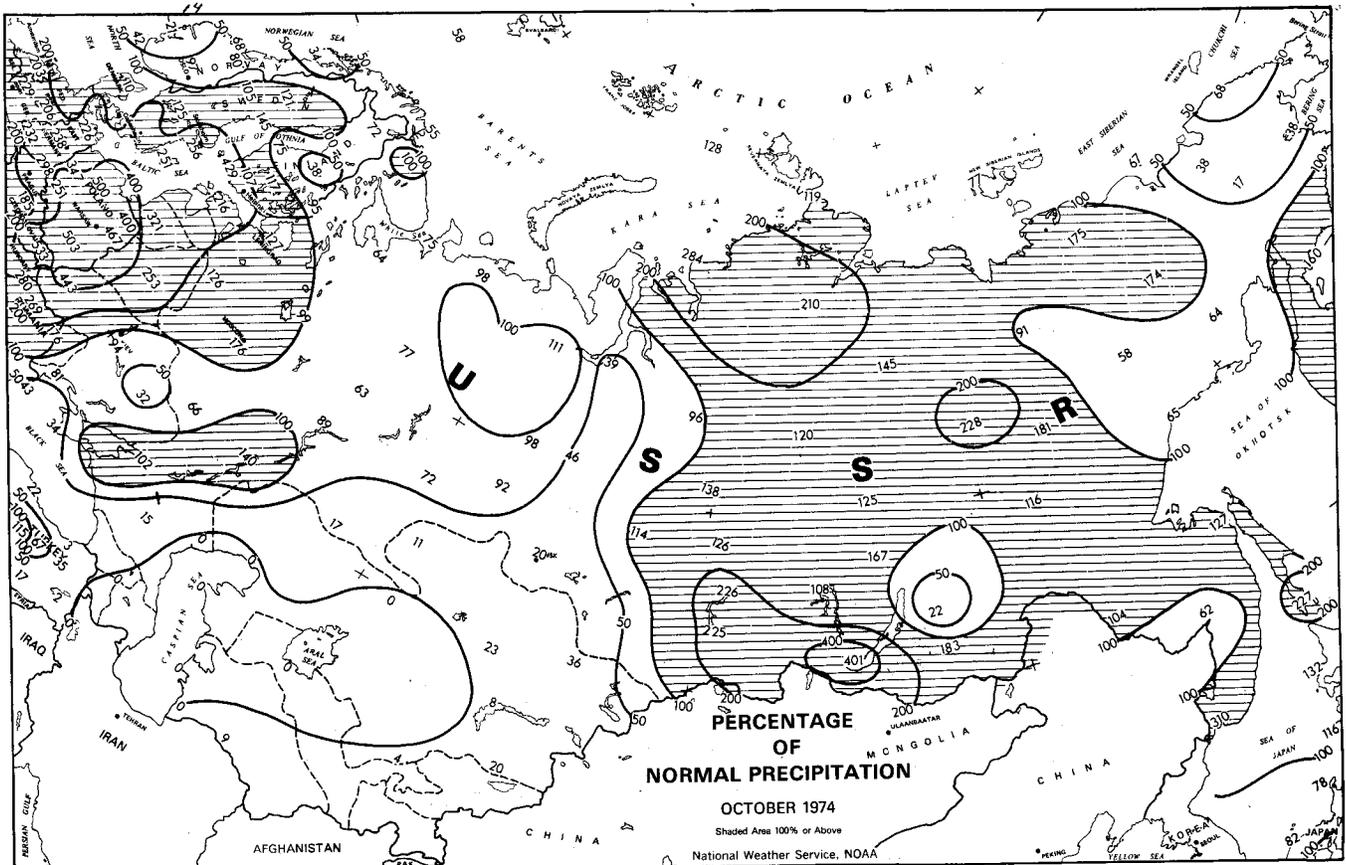
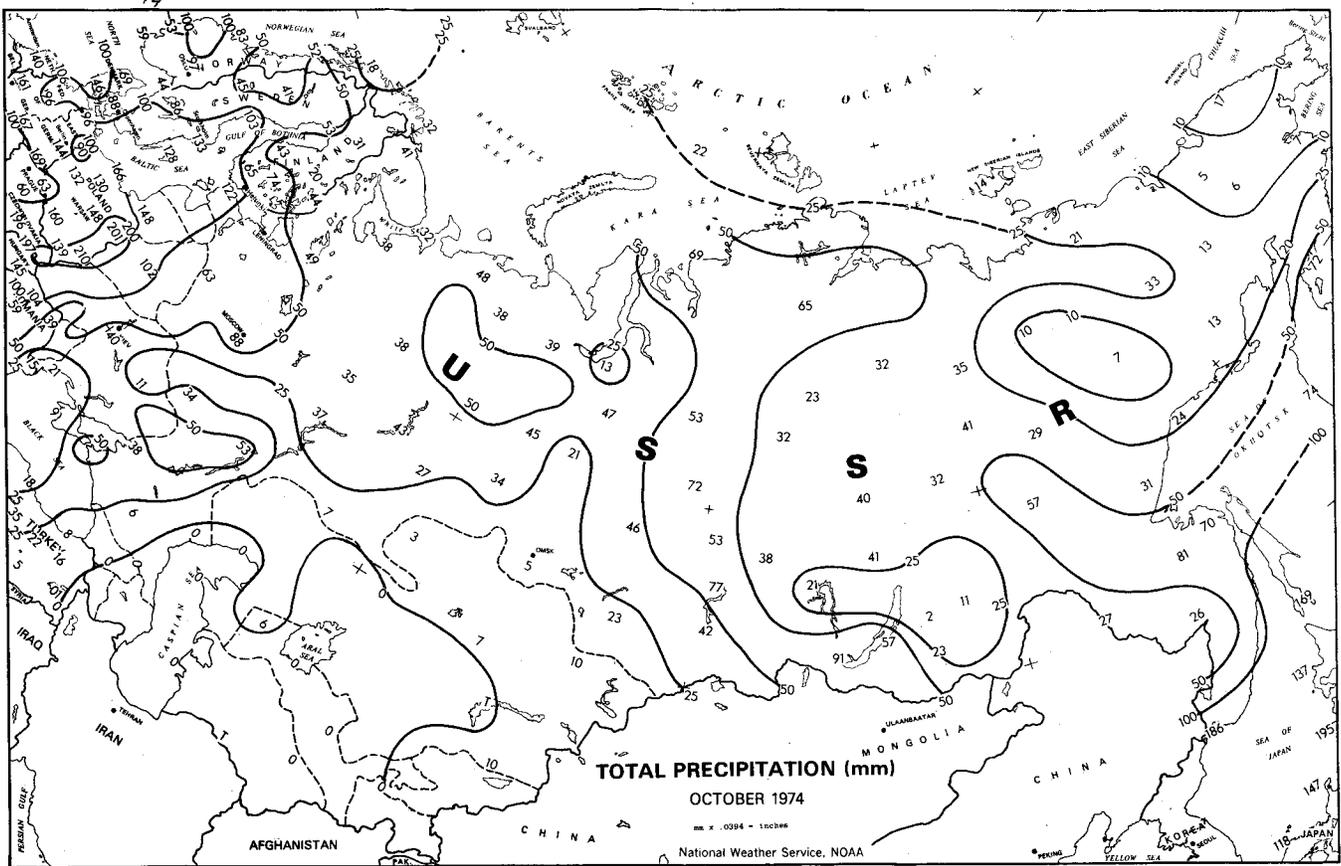
**FIBER:** Cotton made satisfactory development and harvest progressed well in most of the Northern Hemisphere. There were wet weather delays in the U.S. Southwest and a little rain damaged to unpicked cotton in Syria. Despite Fifi, the Honduras crop needs rain. And so does Guatemala, to wash volcanic dust from plants after recent eruptions. Southern Brazil has benefitted from "spring" rains to assist land preparation and seeding.

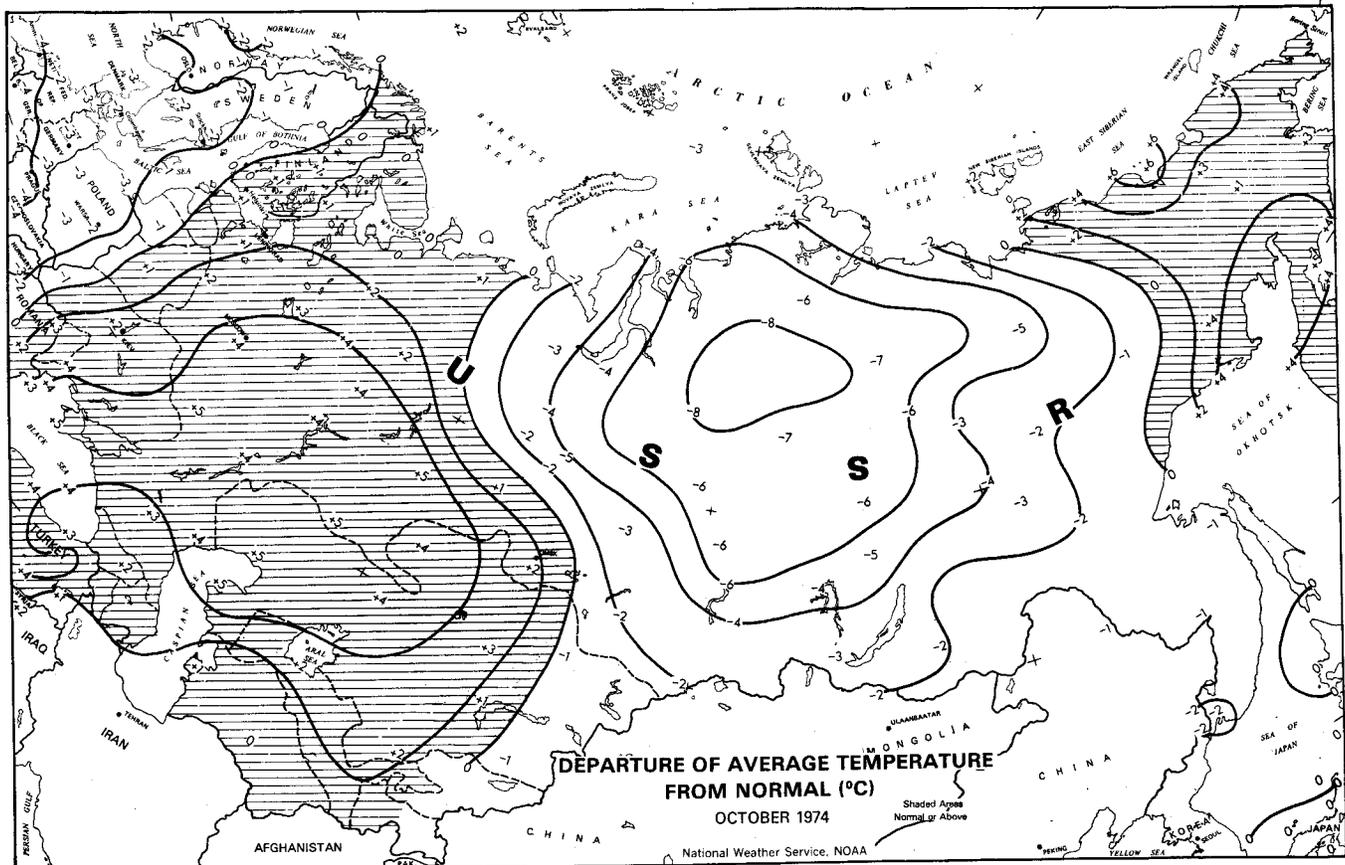
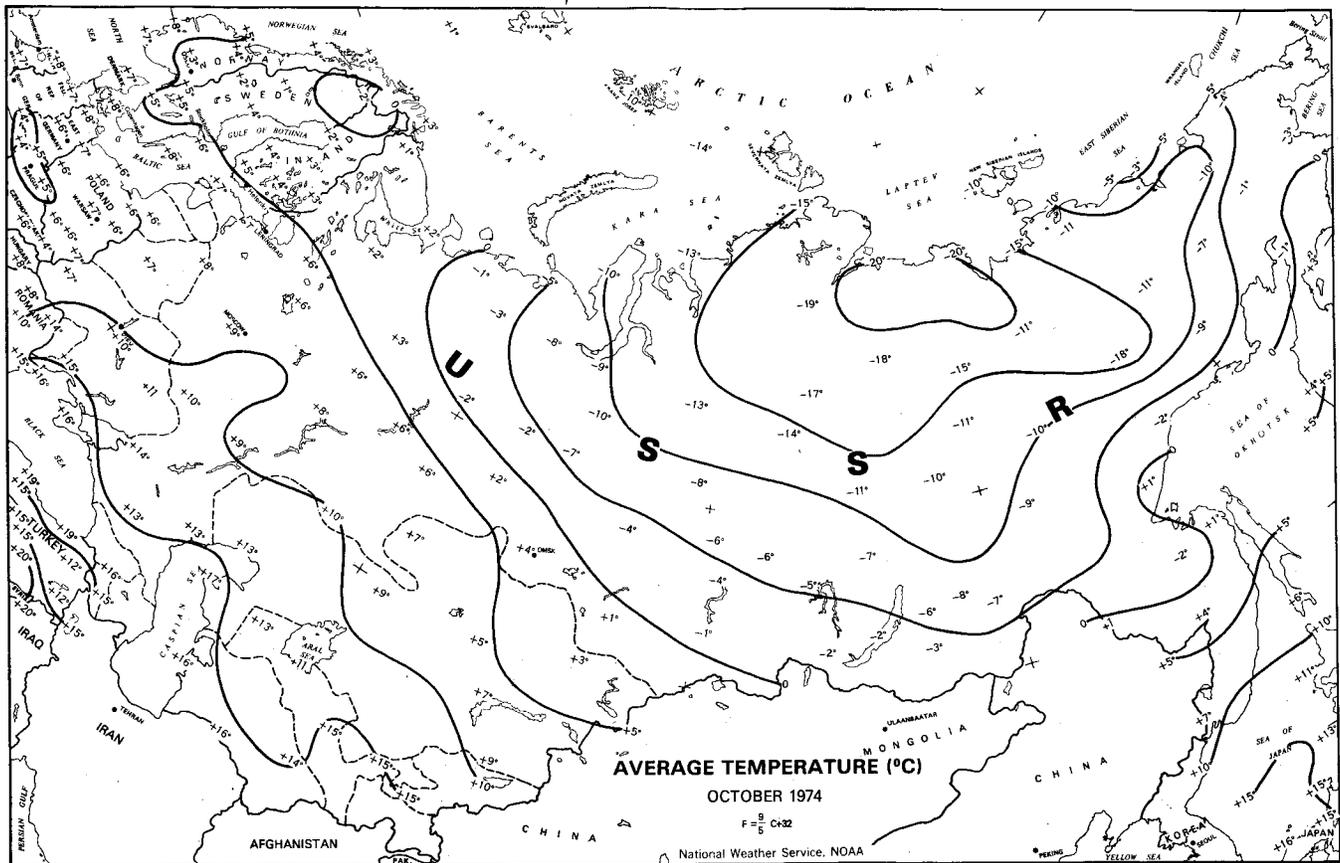
**FORAGE:** The cold, wet fall in Europe has slowed pasture growth, limited harvest of crops for ensilage, and reduced dairy production. Some corn has been damaged beyond salvage. Many fodder beets remain in the ground facing rot before harvest. In contrast, drought has reduced forage in Bulgaria, southern Romania, most of Spain, and parts of Brazil and Argentina.

**HORTICULTURE:** In Europe many potatoes and other root vegetables remain unharvested and subject to rot from waterlogged soils and freeze damage from encroaching water. The quantity and quality of wine grapes have also suffered. Late October frosts seriously hurt wine grapes in Chile along with other fruits and vegetables. Guatemala's banana industry estimates 2.5 million boxes of production were lost to Hurricane Fifi.

**SUGAR:** The soggy soils of Europe continued to drag out harvest of sugar beets and contribute to lower sugar yield. The increasing incidence of frost is taking an additional toll. Typhoons added to the sugar dilemma as a series of them have harassed the northern Philippines, disrupting transportation to ports and resulting in a government embargo on sugar exports. Rains have also delayed beet harvest in Bolivia.

W.J. Cremins  
November 18, 1974  
Foreign Agricultural Service







# FIRST CLASS MAIL

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## AVERAGE MONTHLY WEATHER OUTLOOK

