

# Weekly Weather & Crop Bulletin

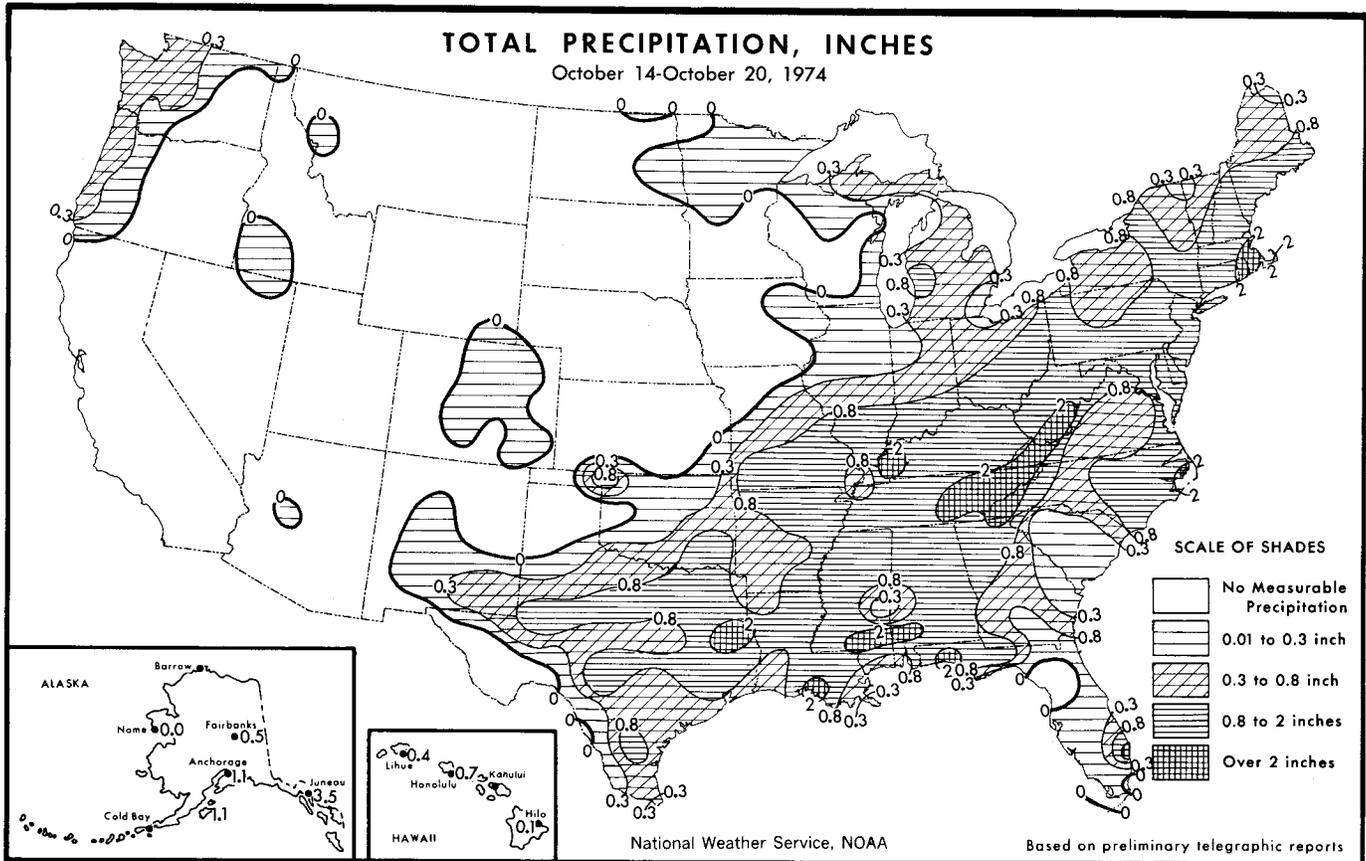
U. S. DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration

U. S. DEPARTMENT OF AGRICULTURE  
Statistical Reporting Service

Volume 61, No. 43

Oct. 22, 1974

Washington, D. C.



## NATIONAL WEATHER SUMMARY For the Week of October 14-20

**HIGHLIGHTS:** Cold Canadian air dominated the weather over the eastern half of the Nation. Surging out of the North Central U.S., the cold air encompassed all of the country from the Central Plains through Texas eastward to the Atlantic. The coldest areas included parts of Wisconsin, Michigan, New York, Vermont, New Hampshire, and Maine where temperatures averaged from 9 to 13° below normal.

From the Rockies westward, temperatures averaged well above normal.

Most of the Nation's rainfall occurred east of a line from west central Texas to Michigan. Heaviest amounts fell in the western Appalachians of Tennessee, Virginia, and West Virginia, totaling nearly 3.00 in.

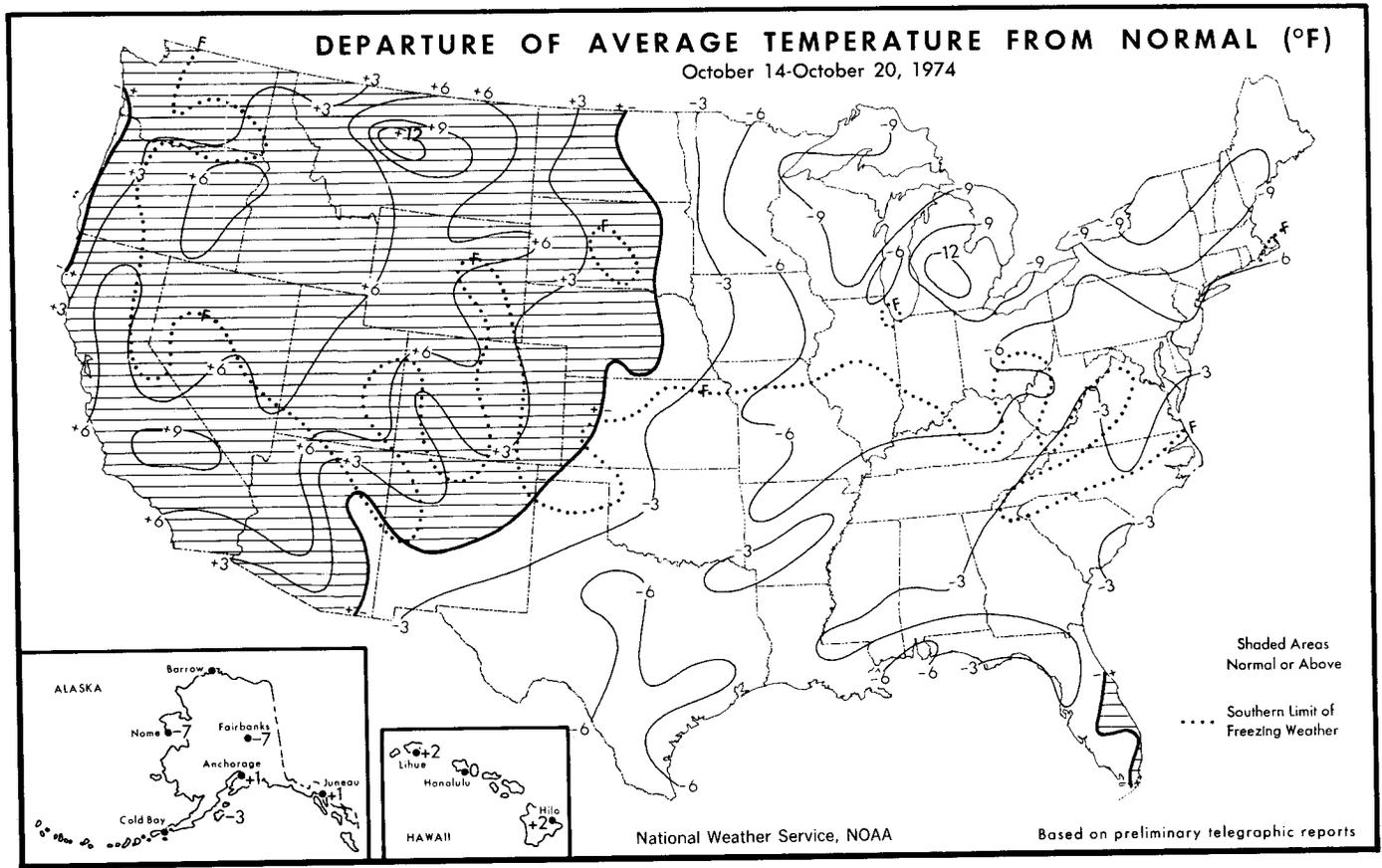
**PRECIPITATION:** Moderate rains of 1.00 to 2.00 in. fell east of a line from west central Texas to Michigan, mostly early in the week. The rain

was associated with a cold front passage. The rainfall was light on the eastern side of the Appalachians and in the Piedmont areas.

In the West, the Pacific Northwest recorded only light amounts west of the Cascades. The rest of the western States and the Central and Northern Great Plains or amounts less than 0.10 in. for the week.

Monday, widespread rains were associated with a cold front stretching from the southern Plains across the lower half of the Mississippi Valley and up the Ohio Valley to the interior of the northern Atlantic Coast States.

On Tuesday, the cold front extended from New York State to Texas, triggering showers from the northern Appalachians and eastern Great Lakes Region to the middle Mississippi Valley. Thunderstorms occurred in the lower Mississippi Valley and along the western Gulf Coast. Both Houston, Texas and Louisville, Ky. reported



around 1.30 in. of rain.

Rain and drizzle fell from southern New England to the eastern Ohio Valley on Wednesday while showers and thundershowers rumbled through the Carolinas, Georgia, Alabama, and the Florida Panhandle.

Thursday, a second front crossed the Great Lakes bringing some rain showers to the lower Great Lakes area and snow showers to the Lake Superior Region. Elsewhere, some isolated rain showers occurred measuring less than 0.25 in. along the Atlantic Coast States.

A small area of light rain began on Friday in southern Illinois, and moved over eastern Kentucky and western North Carolina by evening. Otherwise most of the Nation remained dry.

Saturday, rain fell over much of the interior sections of the Carolinas and southern Virginia. Rains along the North Carolina Coastline left 1.00 in. at Cape Hatteras. An approaching cold front brought low clouds and some rain to the Pacific Northwest Coast.

On Sunday, 1.00 in. of snow covered the ground at the Canton-Akron Airport in Ohio as well as in both Muskegon and Marquette, Mich. and as far south as Beckley, West Va.

**TEMPERATURE:** Unseasonably cold air kept temperatures below normal last week in the Nation's eastern half. Sections of New England averaged between 6 and 11° below normal and the Great Lakes area averaged between 9 to 13° below normal. The week's temperatures averaged 6° and 7° below normal in central Texas.

However, from the eastern slopes of the Rockies to the West Coast temperatures were above normal

for the week. Great Falls, Mont. averaged as much as 12° above normal and California's interior valley was 9° above normal.

Monday, maximum temperatures ranged from 100° at Palm Springs, Calif. to 43° at International Falls, Minn. and Grand Forks, N.D. The coldest reading in the morning was 18° at Butte, Mont.

Pre-dawn temperatures dropped into the 20's and 30's from the northern Great Lakes to the Northern and Central Plains on Tuesday. Record low temperatures were set at North Platte, Nebr. with 16° and St. Joseph, Mo., with 25°.

Wednesday, early morning temperatures over the country were in the 30's from the eastern Dakotas into northern New England and the 70's along the South Atlantic Coast and over Florida. Record morning lows were set in Texas: Victoria reported 45° and Beaumont-Port Arthur recorded 40°.

Unseasonably cool air covered most of the Nation on Thursday morning. A record low of 45° was recorded as far south as New Orleans, La.

Friday, pre-dawn temperatures were mostly in the 30's from the Great Lakes Region to northern New England with a few places in upper Michigan in the 20's. Sault Ste. Marie, Mich. had a record low temperature for so early in the autumn and the coldest reading in the Nation with 17°.

Cold weather prevailed from the northern and central Atlantic Coast to the Great Lakes Region and the Ohio Valley on Saturday. Record morning lows were reported at: New York City, N.Y. 32°; Worcester, Mass., 24°; Cincinnati, Ohio, 31°; Allentown, Pa., 24° and Concord, N.H., 11°.

Sunday, Philadelphia, Pa. measured its coldest temperature for this early in the season with 27°.

**NATIONAL AGRICULTURAL SUMMARY**

For the Week of October 14-20

**HIGHLIGHTS:** Rain and high moisture content of row crops slowed harvest in several States east of a line from the Southern Great Plains through the Eastern Corn Belt. However, overall row crop harvest made good progress.

Nationwide, corn for grain was 34% harvested on October 20th, ahead of both 1973 and normal. The Nation's soybean crop was 44% harvested on the 20th, ahead of the 1973 level but trailing normal progress.

Winter wheat seeding continued to make excellent gains. Moisture is adequate for germination except for the Northern Great Plains and Northwestern States where the crop was being "dusted" in.

**SMALL GRAINS:** Winter wheat seeding advanced sharply in the Southern Great Plains and North Central States. Moisture supplies continued adequate for germination throughout most of the Southern Plains and the Eastern Corn Belt, however, dry conditions still exist in much of the Northern Plains and Pacific Northwest.

In Kansas, condition was mostly good. Seeding was 95% completed, much ahead of the 1973 progress of 65%. Most farmers, except those in the southeast and east central areas of the State, have finished seeding. Oklahoma's 1975 wheat was also 95% seeded and 64% up to stand.

Winter wheat seeding continued ahead of normal in Ohio with 85% done and Missouri with 57% seeded. Slower than normal seeding progress in Illinois and Indiana was due largely to the hampered pace in harvesting corn and soybeans. Wheat is 85% seeded in Idaho and 96% in Colorado. Dry conditions in Washington and Oregon are causing problems in preparing seedbeds and germination.

**CORN:** Rain and high moisture content slowed corn harvest in many areas, but farmers continued to make good progress with the 1974 crop. Nationwide, corn harvesting advanced 12 points to about 34% completed by October 20th, compared to 29% in 1973 and the average 33%.

Nearly ideal harvesting weather prevailed in the Western Corn Belt while harvest in much of the Eastern Corn Belt was slowed early in the week by wet conditions. The Corn Belt crop was 29% harvested by the 20th, ahead of last year's pace but about matching normal.

The Iowa corn harvest advanced to 18% completed versus the usual 27%. Illinois corn harvesting gained 5 points during the week to 20% done and compared with the normal progress of 32%. Corn harvest in Minnesota was 56% completed, South Dakota 70%, while the Michigan and Wisconsin crops were only 10% harvested.

Wet field conditions delayed corn for grain harvest in the South Atlantic States where 68% of the crop was harvested. Harvest in the South Central States made good progress but was only 53% complete.

**COTTON:** Cotton harvest was slowed in Texas by rain and cool temperatures while good progress was made in the Delta and South Atlantic States.

Texas cotton was 26% harvested versus 15% in 1973; Arkansas advanced to 15%, behind last year's pace of 25%; Louisiana cotton was 25% picked, well ahead of the 12% of a year earlier. Harvest was 40% done in Georgia and 41% completed in South Carolina.

Boll opening was 55% in Tennessee, compared with the average 75%. In Arkansas, 60% of the crop was open, Oklahoma 64%, and Louisiana 85%.

Wet conditions kept cotton harvesting at a stand-

still in New Mexico while harvest was in full swing in western Arizona and in California.

**SOYBEANS:** Soybean harvest made good advancement throughout much of the Corn Belt while wet conditions curtailed harvesting in some Southern States.

Through October 20th, the Nation's soybean crop was about 44% harvested, ahead of last year's pace, but trailing the normal progress of 47%. Harvest of the Corn Belt soybean crop pushed past the halfway point during the week to 58% completed, still ahead of last year's 54%, but behind the normal progress of 61%.

Harvest in South Dakota was near completion at 98% done, Minnesota 94%, Ohio and Nebraska were three-fourths completed and Iowa was 64% finished. In Illinois, the leading soybean State, 55% of the crop was harvested, the normal level is 78%.

Harvest in the Southern States equals last year's level, but trails the normal progress.

**OTHER CROPS:** Cold, wet weather slowed sorghum grain harvesting in Texas, where combining was 59% completed, trailing both last year and average progress. In Kansas, 20% of the crop was harvested, Oklahoma 28% and Nebraska 55%.

Peanut digging was completed in Georgia and threshing was 99% done. In Virginia 88% were dug and 64% combined. The Texas peanut crop was 52% harvested and also complete on many farms in Alabama. Digging in North Carolina was 82% completed, much ahead of normal.

Potato harvesting was nearly 90% done in Idaho, 86% in Minnesota and 95% dug in North Dakota.

Sugarbeet lifting was in full swing in California's San Joaquin Valley, harvest was 20% finished in Idaho, 34% in Colorado, 85% in North Dakota and 89% done in Minnesota.

**FRUITS AND NUTS:** Record low temperatures on the weekend froze unharvested apples in the New England States. Apple picking continues active and harvest of several varieties was near the end.

Wine and late table grape harvest continued active in California while the finishing touches were put on the Washington grape harvest.

Cranberries were 75% harvested in New Jersey and harvest was still going good in Wisconsin. Walnut shaking was active in California under excellent weather. In Washington, the walnut harvest was near, and the filbert harvest was in full swing. Pecans were 6% harvested in Georgia.

**VEGETABLES:** Sweet corn, broccoli, cabbage, cauliflower, and carrots were being harvested in Oregon. In California a good volume of artichokes, broccoli, brussels sprouts, cauliflower, carrots, celery, honeydew, and bell peppers continued to move to market. In Florida, sweet corn squash and radishes were moving in good volume while cukes, peppers and eggplant harvests were underway. Planting vegetables for winter harvest was on schedule in Florida.

**PASTURES AND LIVESTOCK:** Excellent grazing was available in most areas of Texas, Arkansas, Kentucky, and Oklahoma, elsewhere pastures and ranges were average or below in supplying needed livestock feed. Light grazing was being done on fall sown wheat and oats in the High Plain of Texas. Farmers and ranchers continue to move hay supplies and bring livestock down from the summer ranges to the winter feeding areas.

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., Oct. 20, 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 . . .	59	- 4	1.5	+ .9	La.Baton Rouge . . .	65	- 3	1.1	+ .5	Youngstown . . . . .	45	- 7	.8	+ .1
Mobile . . . . .	63	- 6	.8	+ .3	Lake Charles . . . .	66	- 4	.6	- .2	OKLA.Okla. City . . .	59	- 3	.1	- .5
Montgomery . . . . .	62	- 3	1.5	+1.1	New Orleans . . . . .	65	- 5	.4	0	Tulsa . . . . .	59	- 4	.2	- .5
ALASKA.Anchorage . .	35	+ 1	1.1	+ .8	Shreveport . . . . .	63	- 4	.6	0	OREG.Astoria . . . . .	52	- 1	.5	-1.1
Barrow . . . . .	--	--	--	--	MAINE.Caribou . . . .	37	- 6	.2	- .5	Burns . . . . .	53	+ 6	0	- .2
Fairbanks . . . . .	18	- 7	.5	+ .4	Portland . . . . .	40	- 9	1.1	+ .4	Medford . . . . .	57	+ 4	T	- .5
Juneau . . . . .	43	+ 1	3.5	+1.7	MD.Baltimore . . . . .	53	- 4	1.5	+ .9	Pendleton . . . . .	58	+ 6	0	- .3
Kodiak . . . . .	37	- 3	1.1	- .3	MASS.Boston . . . . .	47	- 8	2.7	+2.0	Portland . . . . .	57	+ 3	.3	- .5
Nome . . . . .	21	- 7	0	- .3	Chatham . . . . .	48	--	1.9	--	Salem . . . . .	55	+ 2	.5	- .4
ARIZ.Flagstaff . . .	50	+ 3	0	- .3	MICH.Alpena . . . . .	39	- 8	.5	+ .1	PA.Allentown . . . . .	47	- 7	1.5	+ .9
Phoenix . . . . .	79	+ 7	0	- .1	Detroit . . . . .	43	-10	.2	- .4	Erie . . . . .	44	- 7	.8	+ .1
Tucson . . . . .	73	+ 3	T	- .1	Flint . . . . .	41	-10	.5	0	Harrisburg . . . . .	50	- 5	1.2	+ .6
Winslow . . . . .	57	0	T	- .1	Grand Rapids . . . .	39	-13	1.1	+ .5	Philadelphia . . . . .	52	- 5	1.9	+1.3
Yuma . . . . .	79	+ 3	0	- .1	Houghton Lake . . . .	38	- 9	.3	- .3	Pittsburgh . . . . .	49	- 4	.9	+ .3
ARK.Fort Smith . . .	57	- 6	.7	- .1	Lansing . . . . .	40	-12	.4	- .1	Scranton . . . . .	45	- 7	.9	+ .3
Little Rock . . . . .	60	- 2	.7	+ .1	Marquette . . . . .	40	- 9	.4	- .1	R.I. Providence . . .	46	- 7	2.2	+1.5
CALIF.Bakersfield . .	76	+ 9	0	- .1	Muskegon . . . . .	41	-10	1.0	+ .4	S.C. Charleston . . .	62	- 4	.4	- .3
Eureka . . . . .	54	0	T	- .8	S. Ste. Marie . . . . .	35	-11	.7	+ .1	Columbia . . . . .	64	0	T	- .6
Fresno . . . . .	70	+ 6	0	- .1	MINN.Duluth . . . . .	37	- 9	.1	- .4	Greenville . . . . .	60	- 1	.2	- .5
Los Angeles . . . . .	75	+ 7	0	0	Internatl Falls . . . .	38	- 6	.3	- .1	S.D. Aberdeen . . . .	49	+ 1	0	- .3
Red Bluff . . . . .	71	+ 6	0	- .3	Minneapolis . . . . .	44	- 6	T	- .4	Huron . . . . .	51	+ 1	0	- .4
San Diego . . . . .	70	+ 4	0	- .1	Rochester . . . . .	44	- 6	0	- .4	Rapid City . . . . .	55	+ 5	0	- .2
San Francisco . . . .	66	+ 5	0	- .2	St. Cloud . . . . .	41	- 7	T	- .4	Sioux Falls . . . . .	49	- 1	0	- .3
Stockton . . . . .	69	+ 6	0	- .2	MISS.Jackson . . . . .	61	- 4	1.3	+ .8	TENN.Chattanooga . .	56	- 4	1.7	+1.1
COLO.Denver . . . . .	56	+ 4	.2	- .1	Meridian . . . . .	63	- 1	.2	- .7	Knoxville . . . . .	57	- 4	2.4	+1.8
Grand Junction . . . .	58	+ 3	0	- .2	MO.Columbia . . . . .	52	- 6	.5	- .2	Memphis . . . . .	59	- 4	1.0	+ .4
Pueblo . . . . .	58	+ 4	0	- .2	Kansas City . . . . .	53	- 6	0	- .7	Nashville . . . . .	57	- 4	1.3	+ .9
CONN.Bridgeport . . .	51	- 5	1.8	+1.2	St. Louis . . . . .	53	- 6	1.1	+ .5	TEX.Abilene . . . . .	59	- 7	1.3	+ .7
Hartford . . . . .	44	- 8	1.6	+1.0	Springfield . . . . .	54	- 5	1.4	+ .6	Amarillo . . . . .	57	- 2	T	- .4
D.C.Washington . . . .	55	- 4	1.1	+ .5	MONT.Billings . . . . .	57	+ 8	0	- .2	Austin . . . . .	65	- 5	.5	- .2
FLA.Apalachicola . . .	69	- 2	.1	- .4	Glasgow . . . . .	54	+ 7	0	- .1	Beaumont . . . . .	64	- 6	.4	- .4
Daytona Beach . . . . .	73	0	.1	-1.2	Great Falls . . . . .	60	+ 2	0	- .1	Brownsville . . . . .	68	- 8	.2	- .5
Ft. Myers . . . . .	76	0	T	- .9	Havre . . . . .	53	+ 6	0	- .1	Corpus Christi . . . .	69	- 5	.8	+ .2
Jacksonville . . . . .	67	- 3	.3	- .7	Helena . . . . .	49	+ 4	0	- .1	Del Rio . . . . .	66	- 5	T	- .5
Key West . . . . .	80	0	0	-1.2	Kalispell . . . . .	45	+ 3	0	- .3	El Paso . . . . .	59	- 5	0	- .2
Lakeland . . . . .	73	- 1	T	- .6	Miles City . . . . .	55	+ 6	0	- .1	Fort Worth . . . . .	64	- 3	1.0	+ .4
Miami . . . . .	79	+ 1	T	-1.9	Missoula . . . . .	48	+ 4	.1	- .1	Galveston . . . . .	70	- 3	.1	- .5
Orlando . . . . .	73	- 1	T	- .9	NEBR.Grand Island . . .	55	+ 1	0	- .2	Houston . . . . .	65	- 6	1.5	+ .6
Tallahassee . . . . .	65	- 4	.9	+ .3	Lincoln . . . . .	53	- 2	0	- .3	Lubbock . . . . .	57	- 4	.3	- .2
Tampa . . . . .	72	- 3	.2	- .3	Norfolk . . . . .	52	- 1	0	- .3	Midland . . . . .	61	- 5	1.6	+1.3
W.Palm Beach . . . . .	77	0	2.3	+ .3	N.Platte . . . . .	51	0	0	- .2	San Angelo . . . . .	62	- 5	.3	- .1
GA.Atlanta . . . . .	61	- 1	1.2	+ .7	Omaha . . . . .	52	- 2	0	- .4	San Antonio . . . . .	64	- 6	.5	- .1
Augusta . . . . .	62	- 2	.1	- .4	Valentine . . . . .	52	+ 2	0	- .2	Victoria . . . . .	68	- 4	.5	- .3
Macon . . . . .	65	0	.4	- .1	NEV.Ely . . . . .	51	+ 5	T	- .1	Waco . . . . .	64	- 5	.4	- .2
Savannah . . . . .	66	- 1	.1	- .5	Las Vegas . . . . .	74	+ 7	0	- .1	Wichita Falls . . . .	61	- 5	.6	0
HAWAII.Hilo . . . . .	77	+ 2	.1	-2.4	Reno . . . . .	54	+ 4	T	- .1	UTAH.Blanding . . . .	57	+ 6	0	- .4
Honolulu . . . . .	79	0	.7	+ .4	Winnemucca . . . . .	53	+ 5	0	- .1	Salt Lake City . . . .	58	+ 6	T	- .3
Kahului . . . . .	--	--	--	--	N.H.Concord . . . . .	39	-10	1.2	+ .6	VT.Burlington . . . . .	40	- 8	.2	- .4
Lihue . . . . .	79	+ 2	.4	- .5	N.J.Atlantic City . . . .	51	- 5	1.9	+1.1	VA.Lynchburg . . . . .	54	- 4	.4	- .2
IDAHO.Boise . . . . .	56	+ 4	T	- .2	Trenton . . . . .	50	- 7	2.0	+1.4	Norfolk . . . . .	60	- 1	1.2	+ .5
Lewiston . . . . .	56	+ 5	0	- .2	N.MEX.Albuquerque . . .	60	+ 2	.1	- .1	Richmond . . . . .	56	- 3	.4	- .2
Pocatello . . . . .	51	+ 3	.1	- .1	Roswell . . . . .	57	- 2	.3	0	Roanoke . . . . .	55	- 2	.8	+ .1
ILL.Cairo . . . . .	57	- 5	.7	+ .1	N.Y.Albany . . . . .	41	-10	.8	+ .2	WASH.Colville . . . . .	49	+ 3	0	- .3
Chicago . . . . .	48	- 7	.2	- .4	Binghamton . . . . .	39	-11	.7	0	Omak . . . . .	48	+ 1	.1	- .1
Moline . . . . .	48	- 6	T	- .7	Buffalo . . . . .	45	- 6	.6	- .1	Quillayute . . . . .	51	+ 1	.3	-2.4
Peoria . . . . .	48	- 7	.1	- .5	New York . . . . .	51	- 7	1.8	+1.1	Seattle-Tacoma . . . .	54	+ 2	.5	- .4
Rockford . . . . .	47	- 6	T	- .6	Rochester . . . . .	42	-10	.6	0	Spokane . . . . .	52	+ 4	0	- .3
Springfield . . . . .	50	- 6	.3	- .4	Syracuse . . . . .	49	- 3	.7	0	Walla Walla . . . . .	57	+ 3	T	- .4
IND.Evansville . . . .	51	- 7	.9	+ .3	N.C.Asheville . . . . .	55	- 1	1.3	+ .6	Yakima . . . . .	52	+ 2	0	- .1
Ft. Wayne . . . . .	45	- 8	.6	0	Greensboro . . . . .	57	- 2	.8	+ .2	W.Va.Beckley . . . . .	48	- 5	2.9	+2.4
Indianapolis . . . . .	47	- 9	.5	- .1	Hatteras . . . . .	63	- 2	3.6	+2.5	Charleston . . . . .	51	- 6	1.4	+ .9
South Bend . . . . .	46	- 7	.3	- .4	Raleigh . . . . .	57	- 3	1.2	+ .6	Huntington . . . . .	52	- 5	1.4	+1.0
IOWA.Burlington . . .	49	- 6	T	- .7	Wilmington . . . . .	64	- 1	1.1	+ .4	Parkersburg . . . . .	51	- 6	.8	+ .4
Des Moines . . . . .	50	- 4	0	- .5	N.DAK.Bismarck . . . . .	47	0	0	- .2	WIS.Green Bay . . . . .	39	-10	.1	- .3
Dubuque . . . . .	45	- 7	T	- .6	Fargo . . . . .	45	- 2	.2	0	La Crosse . . . . .	45	- 7	0	- .4
Sioux City . . . . .	52	- 1	0	- .4	Williston . . . . .	51	+ 5	0	- .1	Madison . . . . .	40	-10	T	- .5
KANS.Concordia . . . .	55	- 2	0	- .4	OHIO.Akron-Canton . . .	47	- 6	.9	+ .4	Milwaukee . . . . .	46	- 5	.2	- .2
Dodge City . . . . .	57	- 1	0	- .4	Cincinnati . . . . .	48	- 8	1.0	+ .5	WYO.Casper . . . . .	53	+ 5	T	- .2
Goodland . . . . .	55	+ 2	0	- .2	Cleveland . . . . .	48	- 6	.5	- .1	Cheyenne . . . . .	51	+ 3	.1	- .1
Topeka . . . . .	53	- 5	0	- .6	Columbus . . . . .	49	- 5	1.1	+ .7	Lander . . . . .	55	+ 8	0	- .3
Wichita . . . . .	55	- 4	0	- .5	Dayton . . . . .	47	- 8	.6	+ .2	Sheridan . . . . .	52	+ 4	0	- .2
KY.Lexington . . . . .	50	- 8	1.0	+ .6	Toledo . . . . .	43	-10	.2	- .3	P.R.San Juan . . . . .	84	+ 3	1.0	- .3
Louisville . . . . .	52	- 6	1.9	+1.4										

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:** Patches of rain with a few thundershowers 15th, averaging 1.00 to 1.50 in. Dry northerly breezes, clear skies, cool temperatures remainder of week. Lows weekend commonly in 30's Tennessee Valley with scattered frost as far south as Birmingham.

Farmers made good progress harvesting row crops end of week. Cotton harvest took priority most farms and was 25% complete, slightly ahead of 1973. Nearly all gins running full time. Corn harvest took second priority with 60% of corn crop harvested compared with 50% in 1973. Soybean 80% matured, only 25% expected production harvested. Peanut harvest complete many farms with 226,197 tons inspected. Planting small grains made favorable progress. Rains early in week beneficial, but more moisture needed to germinate latest plantings.

**ARIZONA:** Sunny, warm days, clear, cool nights. Temperatures normal to 7° above. Maximums 90's southwest, 60's and 70's mountains. Minimums 60's deserts, 20's and 30's mountains.

Cotton good condition, picking full swing central, west. Grain sorghum harvest increasing west, central. Sugarbeets good stands west, central. Cochise County harvest October 21. Alfalfa hay seasonal levels. Lettuce harvest active central and southeast. Planting active miscellaneous vegetables. Lemon harvest continues Yuma, Maricopa Counties. Grapefruit harvest limited Maricopa County. Tangerine harvest to start Maricopa County. Cattle, calves, sheep mostly fair condition. Pastures, ranges supplying fair forage. Adequate water supplies most areas.

**ARKANSAS:** Warm midweek, cooler by weekend with departures from 0 to 6° below normal. Precipitation only start of week; rainfall across State from 2.18 in. to 0.44 in.

Harvesting advanced as crop maturity permitted. Showers, cool nights slowed development. Cotton bolls 60% open, picking 15% complete, 10 percentage points under 1973. Cotton in fair condition. Rice in good condition, harvest 85% complete, 5 points ahead of 1973, some stubble turned under. Soybeans in good condition, 10% harvested. Early soybean varieties harvested, cool weather slowing maturity of midseason and late varieties. Two weeks of frost-free weather needed. Wheat planting continued on soybean fields. Sorghum in good condition 70% harvested. Some hay cut, rain hampered curing. Fall pastures in excellent condition.

**CALIFORNIA:** Fair and unseasonably warm, dry weather continued. Coastal fog, low cloudiness mainly limited north coast. Afternoon temperatures near 90° Central Valley, in 90's southeast interior. Coastal highs ranged from near 60 to 80's. Weekly averages near normal north coast, several degrees above normal elsewhere.

Field crop harvest conditions favorable. Rice harvest nearing completion Sacramento Valley, yields normal. Milo appears 50% harvested, cotton harvesting continues. Dry bean harvesting near completion San Joaquin Valley, continues coastal areas. Corn harvest continues central areas, Sacramento Valley. Sugarbeet harvest full swing San Joaquin Valley. Final alfalfa harvest, land preparation fall plantings wheat, barley continue.

Wine grape picking active, sugar levels increasing as season progresses. Late table grape harvest continues. Walnut shaking active, harvest weather excellent. Apple harvest in final stages, olive picking still active. Pomegranate, persimmon harvests increasing as color improves. Avocado picking seasonally normal. Navel oranges continue size well, limited harvest begun Edison area; volume movement expected early to mid-November. Lemon harvest slow, generally good quality and medium sizes.

Broccoli, cauliflower peaking Salinas, strong Santa Maria. Brussels sprouts continue, some decay reported. Cantaloup continues Imperial Valley. Carrots decline Salinas Valley, unchanged Hemet, Santa Maria. Celery good supply, artichokes increase. Honeydew continue Imperial Valley. Lettuce winding up Salinas, full swing westside. Bell peppers continue central coast. Fall potato continues northern counties, Santa Maria, sweetpotato full swing Livingston. Market tomato increasing south coast. Movement livestock from summer pastures to winter areas continuing. Large numbers stock animals feeding on permanent pastures. Supplemental feeding held to minimum. Most livestock in good condition. Water supplies adequate most areas.

**COLORADO:** Few showers early week. Cool until midweek. Fair, dry warm remainder. Temperatures averaged near normal for week. Lower elevation highs 75 to 85°. Mountain highs upper 60's and 70's.

Excellent harvest weather. Corn grain 36% harvested compared 5-year average 15%. Sorghum 20% combined. Sugarbeets 34% harvested, 5-year average 28%. Dry beans 92% threshed. Fall potatoes 92% dug. Apple harvest active. Winter wheat 96% seeded, 80% emerged. Winter barley 96% planted, 83% emerged. Rain weekend October 12 in southeast will improve emergence and condition. Range and pasture condition poor. Livestock good condition.

**FLORIDA:** Warm days and cool nights predominated. A cold front moved through during midweek bringing cooler temperatures and widespread, but mostly light, showers. Temperatures averaged slightly below normal for the period.

Soil moisture short in central, northern, and some western areas and adequate elsewhere. Harvest nearing completion for corn and peanuts, active on cotton and soybeans. Sugarcane good condition. Small grains being seeded where moisture is adequate. Pastures in fair to good condition and declining rapidly. Cattle and calves are in fair to good condition. Citrus tree condition excellent. Rainfall light, some growers irrigating. Cool weather suppressing growth, early fruit color good. Temperatures slightly cooler providing good growing conditions for fall vegetables. Rainfall scattered, irrigation continues active. Sweetcorn, squash, and radishes moving in good volume. Cukes, peppers and eggplant just getting started. Planting of vegetables for winter harvest on schedule.

**GEORGIA:** Temperatures averaged 2° above normal north and near normal south. Warming trend until midweek, cooler into weekend. First rain in more than 2 weeks at midweek; amounts averaged 0.50 to 1.00 in. north and west to 0.20 or less east central and southeast.

Soil moisture adequate southwest, mostly short elsewhere. Another good week for harvesting.

Lack of adequate moisture continues to delay small grain planting most areas. Cotton condition fair to good, 40% harvested. Corn good, 57% harvested. Peanut digging 99% threshed, yields excellent. Soybeans good condition, 11% harvested, favorable yields reported. Pecans 6% harvested, condition mostly fair. Rain improved pastures, condition fair to good. Cattle good. Small grains 37% planted.

**HAWAII:** Heavy showers some parts caused light to heavy erosion, but crop damage light. Active irrigation in most major crop areas. Production of bananas continue heavy, but papaya production declining slightly. Cattle condition fair to good. Most pastures continue to improve. Sugar and pineapple operations active.

**IDAHO:** Fair warm days and cool nights with temperatures averaging in upper forty's and fifties, near normal southwest and southcentral, slightly below east, and above normal north. Only precipitation was 0.19 in. at Grace, 0.13 in. at Salmon.

Warm, dry days ideal for harvesting potatoes, sugarbeets, and late apple crop. Potato crop nearly 90% harvested, east and southwest approaching clean-up stage, while south central 80% dug. Winter wheat and barley 85% seeded. Emergence slow and spotty in dryland areas. North Idaho has driest soil conditions in several years. Sugarbeet lifting good progress with 20% harvested. Apple harvest over peak.

**ILLINOIS:** Temperatures 6 to 8° below normal. Precipitation most areas, 0.75 to 1.50 in.

Corn harvest 20% complete, 26% 1973, 3-year (1971-73) average 32%. Much acreage slow to dry. Rain delayed harvest. Soybean harvest 55% complete, 70% 1973 average 78%. Seeding 1975 winter wheat 70% complete, 80% both 1973 and average. Reports indicate emerged seedings showing good growth and color. Grain sorghum harvest 15% complete. Plowing for 1975 corn and soybean acreage 13% complete, same as 1973, average 18%. Pastures mostly fair to good condition. Soil moisture 22% short, 66% adequate, 12% surplus. Fieldwork: 4 days suitable.

**INDIANA:** Cool week. Rainfall 0.30 in. northwest to 1.20 in. southeast. Temperatures averaged 8° below normal; ranged from 19° on 21st to 78° on 14th.

Drying rates near normal. Fieldwork averaged 5 days. Topsoil and subsoil moisture short to mostly adequate. Corn 15% harvested, 25% in 1973 and average. Soybeans 45% combined, 60% in 1973, 55% average. Wheat 65% seeded, 75% 1973, 70% average. Wheat 30% emerged, stands mostly good. Pastures mostly fair, off seasonally. Sorghum 20% harvested. Apples 85% picked.

**IOWA:** Temperatures averaged near to slightly below normal western Iowa to 5° below normal eastern sections with little or no precipitation.

Harvest continues at steady pace. Fieldwork: 5.0 days suitable, 1968-72 average 4.7. High moisture and light test weights common for corn and soybeans. Corn harvest 18% complete, average 27%. Harvest in full swing northwest, other districts starting as soybeans finishing up. Soybean harvest 64% complete, same as average. Northwest and north central nearly complete. Pop-corn harvest 40% complete, grain sorghum 28% complete, average 42%. Fall plowing 14% complete. Topsoil moisture 32% short, 68% adequate.

**KANSAS:** Precipitation ended east and south 14th. Week dominated by clear to partly cloudy skies. Temperatures averaged mid to upper 50's, 4° above

normal northwest, 2 to 4° below normal east and south central. Freezing northwest half. Frost east central and south central 15th.

Wheat seeding near completion except southeast and east central. Wheat 95% seeded, 65% 1973, 95% average. Moisture received weekend October 12 improved wheat but top soil dry many western counties. Overall wheat condition good considerable variation across State. Sorghum grain harvest 20% complete, 1973 20%, average 40%. Corn 45% harvested, 15% 1973, 45% average. Soybean 15% harvested equal year earlier, sharply below 50% average. Sugarbeet harvest active. Pasture feed short western two-thirds. Supplemental feeding increasing.

**KENTUCKY:** Rain first of week averaged 1.50 in. Mostly mild temperatures but colder over weekend. Temperatures averaged a few degrees below normal.

Soil moisture mostly adequate. Some surplus in midwestern area. Fieldwork suitable 4 to 5 days. Crop harvest accelerates: Corn for grain 40% complete, soybeans 18% complete. Tobacco in barns, 25% ready for stripping, 4% stripped. Dark-fired tobacco 60% still being fired. Farmers delaying seeding wheat and barley, both almost 40% complete. Condition of seeded fall grains good to excellent. Some late hay and silage still being cut. Pasture conditions remain excellent.

**LOUISIANA:** Weekly average temperatures 3 to 5° below normal. Precipitation light to locally heavy with thundershowers 14th and 15th. Remainder fair, dry, brisk. Extremes: 88° Mamou, Oberlin, Crowley 14th, 35° Ashland 16th. Greatest 1-day rain, 3.65 in., 15th Winnsboro.

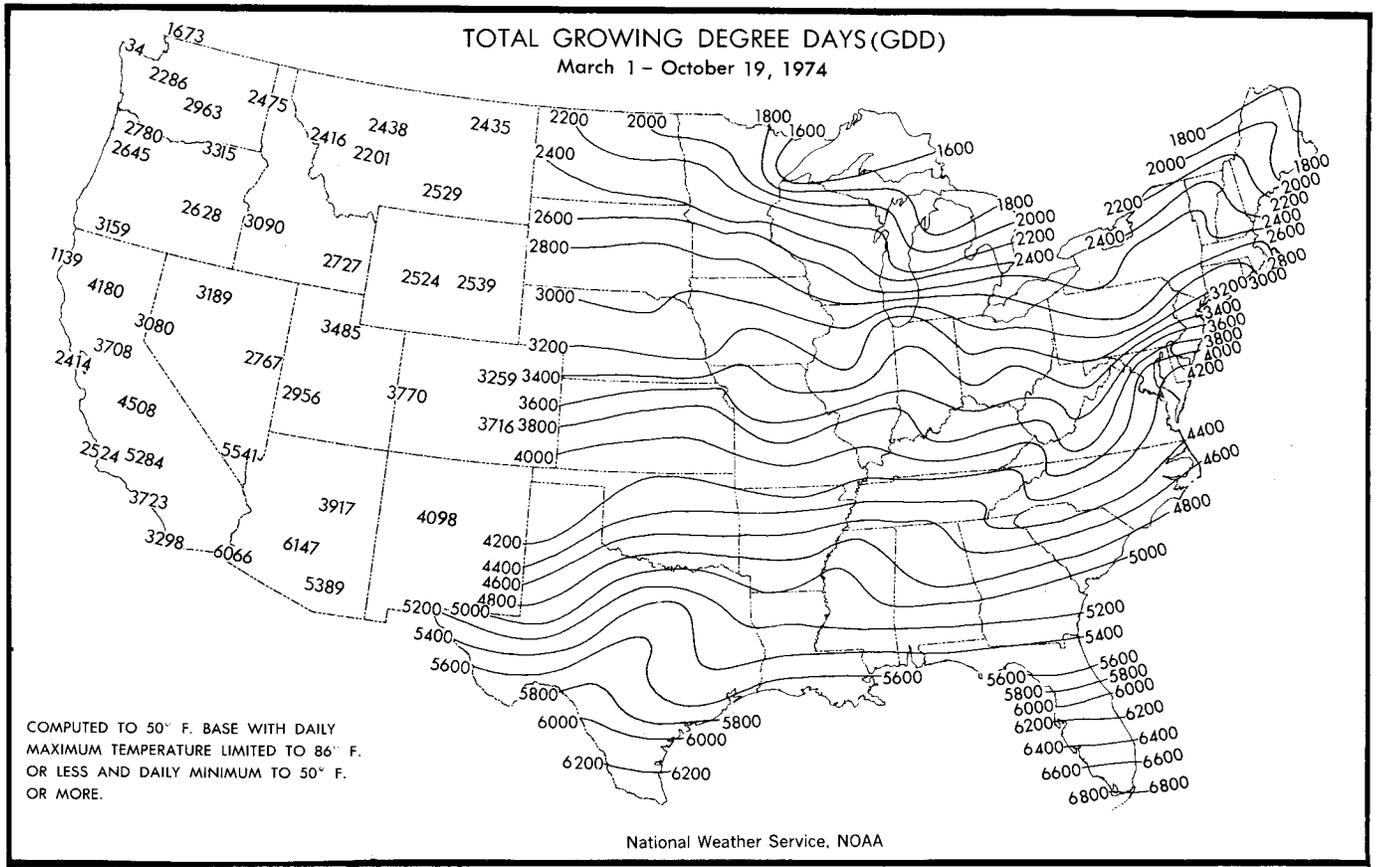
Showers delayed harvest past midweek. Fieldwork possible 4.6 days. Soil moisture generally short south, adequate to surplus north. Cotton maturity slowed by rain and cooler temperatures, 85% open, 25% picked compared with 10 to 15% in 1973, 45% 1972. Soybean harvest active, especially in south, 40% harvested, 25% 1973, 60% 1972. Corn and sorghum harvest neared 90%. Sugarcane harvest made little headway. Mill openings have been delayed. Cane lighter than expected. Sweetpotato harvest 90%, 1-2 weeks ahead of normal, yields and quality good. Small grain seeding hindered by rains north and dry soils south, 60% seeded. Hay harvest continued on limited scale. Pastures average. Cattle fair to good.

**MARYLAND AND DELAWARE:** Temperatures 1 to 5° above normal. Highs mid-70's to low 80's except Garrett County. Lows low 30's to mid-40's. Precipitation 0.45 to 3.30 in., heaviest scattered showers Delaware and north central Maryland.

Harvest interrupted by showers which provided needed moisture for fall seedings. Corn harvest nearly complete south, average 67%, usual 63%. Soybean harvest 24%, normal 22%. Freeze damaged fields drying out favorably. Added moisture improved small grain seeding. Wheat and rye 66% seeded, barley 80%. Apple picking practically complete red and golden delicious, Stayman 50%, Romes 40%, Yorks 30%.

**MICHIGAN:** Temperatures averaged 6 to 12° below normal. Total precipitation in Upper Peninsula from 0.05 to 0.90 in., Lower Peninsula 0.20 to 0.50 in., north and southeast 0.50 to 1.00 thru the central.

Corn moisture high, drying slowly. Soil moisture short south adequate elsewhere. Fieldwork averaged 5.0 days. Grain corn 10% picked, 31% 1973. Soybeans 48% harvested, 55% 1973. Dry beans 92% harvested, 100% 1973. Wheat 95% planted, 99% 1973. Sugarbeets 32% dug, 36% 1973. Potatoes 85% har-



vested, 88% 1973. Pasture short south adequate elsewhere. Fall plowing for spring planting 16% completed. Apples 80% picked, grapes 98% picked, 97% 1973. Still harvesting cabbage, cauliflower and carrots.

**MINNESOTA:** Temperatures 5 to 8° below normal north and east to little below normal southwest. Precipitation averaged 0.20 in. northern third to less than 0.10 in. central and south.

Corn fields drying rapidly. Soybean harvest 94% completed, 1973 64%, average 65%. Corn harvest 56% completed, 1973 28%, average 30%. Moisture content of corn grain 23%, 1973 24%, average 25%. Potatoes summer and fall 86% harvested, average 88%. Sugarbeets 89% dug, average 70%. Soil moisture short except adequate in north.

**MISSISSIPPI:** Widespread rain 15th, otherwise mostly fair with moderate seasonal temperatures near normal. Extremes: 88° at Merrill on 11th and Calhoun City on 12th, 34° at University on 16th and Tupelo on 17th. The greatest 24-hour rainfall was 2.38 in. at Corinth on 15th.

**MISSOURI:** General rain 12th and 13th, otherwise dry and temperatures a few degrees below normal. Rainfall mostly over 0.50 in. with a few areas reporting 2.00 to 3.00 in. frost or freeze level 1 or 2 days over much of State; no hard frost some southern sections.

Fieldwork: 5 days suitable. Soil moisture supply adequate. Corn 41% harvested, 19% 1973, five-year average 37% harvested. Soybeans 62% mature, 23% harvested, 19% 1973, average 36%. Grain

sorghum 35% harvested, 28% 1973, average 41%. Cotton 25% harvested, 27% 1973, average 42%. Fall seeding 57% complete, 39% 1973, average 54%. Pastures fair to good condition.

**MONTANA:** Warm and dry week; temperatures averaged 3 to 9° above normal with unseasonable highs in upper 70's and 80's. Precipitation below normal. Southwest got nearly 0.50 in. in storm late 20th.

Livestock condition good. Cattle and sheep 80% moved from summer ranges. Hay supplies adequate for winter. Flaxseed harvest 95% complete, potatoes and dry beans 90%, sugarbeets 75%. Winter wheat condition fair to good. Some spotty fields due to decreasing subsoil moisture supply.

**NEBRASKA:** Temperatures above normal north and west, below normal southeast. Precipitation sparse.

Fieldwork: 5.7 days suitable. Topsoil moisture supplies short 94%, subsoil moisture supplies short 100%. Corn 45% harvested, normal 24%, 15% 1973. Sorghum 55% harvested, normal 42%, 1973 40%. Soybeans 75% harvested, normal 68%, 45% year ago. Wheat condition 42% poor, 43% fair, 15% good. Range and pasture feed supplies short 95%. Supplemental feeding of cattle.

**NEVADA:** Indian summer with sunny warm afternoons, clear cold nights. Afternoon temperatures mostly 10° above normal, nighttime minimums at seasonal levels. Some showers northwest on 20th, otherwise no precipitation.

Haying mostly complete except southern valleys where sixth cutting of alfalfa underway. Potato harvest well along Humboldt County. Livestock move-

ment light.

**NEW ENGLAND:** Week began with temperatures near normal warming 5 to 10° above normal by 15th. Storm moving up Atlantic Coast brought heavy rains to New England night of 15 and 16th. Rainfall of 2.00 to 3.00 in. general south, up to 1.00 in. fell north. A strong northerly flow in wake of storm brought record low temperatures for balance of week. Low temperatures below freezing across all of the south. Light snow falls occurred most northern and western areas with arrival of cold air.

Record low temperatures end of week froze unharvested apples and ended fresh vegetable harvest. Potato harvest approaching end with 95% dug.

**NEW JERSEY:** Record cold week as much as 9° below normal. Temperatures averaged 45° north, 49° central and 50° south. Extremes: 19° at Newton on 19th 81° at Toms River on 15th. Substantial rainfall on 15th to 16th ended a two week dry spell and was wettest week in Cape May County since early September. Total weekly rainfall averaged 1.96 in. north, 2.18 in. central and 1.94 in. south. Greatest 24 hour total 2.26 in. at Pemberton.

Soil moisture expressed in % of field capacity averaged 99% north, 97% central and 96% south. Rain on 16th very beneficial. Harvest of hardy vegetables continues active. Sweetpotato harvest in clean up stage. Harvest of soybeans and corn for grain general. Apple harvest in final stage. Cranberry harvest more than 75% complete. Small grain seeding continues as crops are harvested. Early seedings growing well.

**NEW MEXICO:** Some rain, mostly less than 0.50 in. southern areas 14th, otherwise mostly clear and dry. Gradually increasing temperatures through 18th with averages very near seasonal normals.

Moisture adequate. Cotton fair, harvest at standstill due to wet fields south. Open bolls: 55% south, 20% north. Hot days, late frost needed. Alfalfa fair, 4th cut 80% done north, 5th 50% south, stemmy hay, black windrows north. Sorghum: Irrigated good, dry, fair, 10% grain harvested, yields down due to earlier drought. Winter wheat, barley good. Irrigated corn, good, silage 90% cut. Pecans: Hulls opening, limited dropping, tree shaking and nut harvest expected soon. Peanut digging full swing Portales. Broomcorn fair, full 80% done, east side. Lettuce harvest, 20% done, Mesilla Valley. Sweetpotato digging 65% done, east side. Cauliflower, cabbage, chile harvesting north. Ranges fair, short grass. Livestock good.

**NEW YORK:** Unseasonably cold week as temperatures ranged 5 to 12° below normal. Precipitation heavy in southeast, while elsewhere too variable to show good trend. Mildest weather occurred early in week. Rochester 77° on 14th. Temperatures dropped mid-week, unseasonably cold air moved across State on 18th and continued through weekend. Morning readings in teens and twenties in all but coastal sections. Watertown 14°, weekly low 19th. Precipitation common through 17th. Heavy rain over southeastern sections 16th with amounts exceeding 1.50 in. Flurries widespread during weekend over interior sections.

**NORTH CAROLINA:** First good rainfall for month. Temperatures normal.

Fieldwork averaged 4.1 days. Soil moisture mostly adequate. Burley tobacco harvest complete. Cotton 13% harvested, 1973 35%, average 32%. Corn 74% harvested, 1973 85%, average 51%. Soybeans 7% harvested, 1973 10%. Peanuts 82% dug, 1973 96%, average 50%. Apples 90% harvested, 1973 75%, average 81%. Sweetpotatoes 70% dug, 1973 71%. Sorghum grain 66% harvested,

1973 63%. Soybean and pasture conditions fair to good. Labor supplies adequate.

**NORTH DAKOTA:** Temperatures above normal except central and southeast. Northwest was 6° over normal. Extremes: 78° at Brien and Wahpeton, 14° at Upham. Precipitation below normal all divisions except north Central with 0.21 in. south central division below normal 0.23 in. Greatest weekly precipitation at Bottineau at 0.39 in. weekend was warm and dry across the State.

Row crop harvest advanced rapidly. Sugarbeet and potato harvest 85% and 95% complete, respectively. Corn picking 66% done. Bean harvest 85% complete. Farmers moving hay, working cattle and getting ready for winter.

**OHIO:** Snow flurries 19th, 1.00 to 3.00 in. northeast; up to 4.00 in. south central 20th. Precipitation 0.21 in. northwest to 1.43 in. south. Temperature range: 25 to 78°.

Harvest of corn for grain slowed by high moisture content. Corn harvest less than 25% complete, 35% in 1973 and normal. Soybeans 75% harvested, 55% in 1973, and 50% normal. Soybeans 85% harvested northwest. Harvest completed: Sugarbeets 25%, normal; popcorn 30%, well behind normal; and potatoes 90%. Winter wheat 85% seeded, 85% in 1973 and 80% normal. Moisture supplies improved to 24% short, 67% adequate, and 9% surplus. Some northwest areas remain short. Fieldwork: 5 days favorable.

**OKLAHOMA:** Temperatures averaged normal southeast to 4° subnormal northwestern third of State. Precipitation averaged near 0.50 in. north central to slightly over 2.00 in. northeast. Weekend mild and dry.

Topsoil moisture 90% adequate, subsoil moisture 93% adequate. Farming activities: Planting small grains, harvesting corn, sorghums, soybeans, peanuts, and cotton. Wheat 95% planted, 64% stand, 1973 80% planted, normal 93%. Barley 85% and oats 79% planted. Corn 52% harvested, 1973 54%, sorghums 28%, 1973 29%. Soybeans 67% mature, few harvested 1973 12% harvested. Peanut harvest 14% complete, 1973 21%. Cotton 64% bolls open, 1973 65%. Range and pasture grasses mostly good or better condition. Cattle mostly good to excellent.

**OREGON:** Average temperature 3 to 8° above normal; high 83°, lows 20's to 30's. Cloverdale had rain accumulating 0.03 in.

Fall land preparation, seeding continuing. Dry conditions causing problems preparing seedbeds, seeding. Early fall seedings providing good to fair stands. Alfalfa hay, corn silage harvests continuing. Apple harvest finishing. Filberts in full swing, walnuts near harvest. Cranberry harvest continues. Sweetcorn, broccoli, cabbage, cauliflower, carrots being harvested, onions finished. Potatoes over 90% harvested. Ranges dry, stock water short, winter feed conditions good. Cattle market dull.

**PENNSYLVANIA:** Mild and wet first half, cold and dry last half week. Temperatures averaged 4 to 11° below normal for coldest since end of March. Extremes: 79° on 15th to 10° on 19th. Near record low readings for the date on weekend. Rainfall preceeding Artic outbreak 0.75 in. Northern Tier of counties to nearly 2.00 in. southeast. First snowfall of season as flurries most central, western and northern sections, Erie reported 2.00 in. on ground morning of 20th.

Fall harvest continues. Farmers are finishing silo filling and are picking corn for grain.

**PUERTO RICO:** Island average rainfall 1.43 in. Highest weekly total rainfall 5.73 in. at San Lorenzo followed by 3.83 in. at Dos Bocas. Temperatures averaged about 80° on coasts and 74° interior; highest 95°, lowest 56°.

Fertilizing and cultivating operations of sugarcane fields continued under favorable weather conditions. New plantings developing well. Coffee harvest continued normally most zones. Some tobacco sections preparing soil for planting, while other areas, plantings in good condition. Pastures in good condition most areas. Farmers planting and cultivating food crops. Crops are

**SOUTH CAROLINA:** Temperatures from 2 to 7° above normal. Rainfall 1.50 in. in mountains but only 0.10 to 0.30 in. other areas, less than normal rainfall not enough to break dry trend over most of State.

Soil moisture continues short to very short. Tobacco marketing nearing completion. Cotton 41% harvested, same year ago. Corn 83% harvested, 76% 1973. Soybean condition down, fair to good, suffering dry weather, 78% leaves turning, 61% leaves shedding, 40% mature, 3% harvested, 7% harvested 1973. Sorghums 28% harvested. Pasture condition poor to fair. Fall hay harvest active. Winter grazing 58% planted, 46% emerged. Small grain planting slowed result of dry conditions. Pecan condition poor. Fall vegetable condition poor to fair.

**SOUTH DAKOTA:** Temperatures averaged from 6° below to 5° above normal. Extremes: 89° Maurine 15th, 18° Ralph 14th. No precipitation during week. Annual precipitation below normal 5 to 11 in. east, 3 to 8 in. west.

Row crop harvest making good progress. Corn harvest 70% complete, normal 38%, 1973 30%. Soybean harvest 98% complete, normal 66%, 1973 45%. Sorghum harvest 90% complete, normal 58%, 1973 38%. Row crop yields quite variable due to drought and frost damage received earlier. Winter wheat and rye need rain. Livestock in good condition and are moving into harvested corn fields.

**TENNESSEE:** Cold front moved across State midweek bringing rains averaging nearly 1.50 in. Temperatures about 2° below normal.

Germination and growth of fall seeded grains very good. Corn 90% mature, 33% harvested, normal 46% harvested. High moisture content delaying harvest. Soybeans 45% mature and 8% harvested, same as 1973, 1 week behind normal. Frost damaged top portions. Cotton 55% open bolls, 1973 and average 75%, 10% picked, 20% 1973, 33% average. Boll weevil damage evident. Burley 20% stripped, near normal. Wheat 50%, oats and barley 75% seeded, 1 week behind last year and normal.

**TEXAS:** Temperatures 2 to 6° below normal over State. Rains 1 to 2 in. eastern half 14th; thunderstorms 20th south Texas dumped 1.50 in. West Texas rain scarce most areas, below normal.

Seeding wheat, oats satisfactory progress. Early stands excellent growth, light grazing available. Moderate rains insured satisfactory growth through late fall. Harvest cotton, sorghum little progress because cold, wet weather. Fall land preparation underway southern half. Major Crops percent planted: Wheat 1974 85, 1973 85; oats 1974 83, 1973 96. Major Crops percent harvested: Cotton 1974 26, 1973 17; corn 1974 70, 1973 85; sorghum 1974 59, 1973 69; peanuts 1974 52, 1973 55; soybeans 1974 13, 1973 15; sugarbeets 1974 23, 1973 24.

**High Plains:** Lettuce, carrot harvest resumed as most fields dried from recent rains. East: All activity centered around digging sweetpotato crop. Coastal Bend: Cucumber harvest underway, squash picking started. Some damage done to fall watermelons by high winds during week. Spinach planting continues with early fields emerging. San Antonio-Winter Garden: Cucumbers, bell peppers, early cabbage, harvest in progress. Carrots making good growth, spinach planting continues. Lower Rio Grande Valley: Planting lettuce, onions, cabbage continues, some peppers reaching maturity. Pecan harvest gaining momentum south central and central. Early varieties beginning to fall in Cross-Timbers and Blacklands areas. Light picking early oranges, grapefruit, quality, size of fruit good.

Excellent grazing available most areas. Livestock good, condition continues to improve. Baling fall hay Blacklands, East.

**UTAH:** Few isolated light showers early week and northwest weekend. Accumulated amounts generally light but locally moderate. Average temperatures near normal to 6° above.

Weather favorable for harvesting late fall crops. Potatoes harvested 90% north and south, 70% central. Sugarbeets 55% harvested, apples 90%. Grain corn harvest started. Some counties still have alfalfa hay to be cut for 3rd or 4th time. Killing frosts occurred most north and central counties, light frost or no frost damage few valley areas. Movement cattle and sheep from high summer range to winter range and feeding areas about 90% completed. Movement to slaughter and feeder lots all livestock expected to be sold about 15% completed cattle and calves, 75% sheep and lambs.

**VIRGINIA:** Temperatures above normal first of week to well below at end. Extremes: 85 and 28°. Precipitation heavy west and southwest, light to moderate elsewhere.

Fieldwork: 4.2 days favorable. Topsoil moisture 66% adequate, 30% short, 4% surplus. Corn harvest 52%, 1973 53%. Peanuts dug 88%, combined 64%, 1973 87%, 72%. Good yields. Soybean harvest 7%, 1973 14%. Early planted acreage, good yield; late planted acreage, heavy freeze losses. Tobacco curing, grading continue, some Burley quality lowered by frost, excess moisture. Pasture condition down. Feeder cattle market active. Sweetpotato harvest 75% complete. Cucumber, snap bean harvest active. Apple harvest 82% complete, some growers finished. Small grain seeding, wheat 45%, barley 63%, winter oats 72%.

**WASHINGTON:** West: Temperatures near normal from 70's to 30's. Little localized precipitation.

Pastures and fall seeded grain showing effects of dry soils. Harvest potatoes, silage corn, fall vegetables active. Livestock being started on supplemental feed and hay as forage declines. East: Average temperatures above normal from 70's to 30's.

Apple picking winding down most areas. Grape harvest complete. Sugarbeet and potato digging underway. Seed crops and silage corn nearly finished. Some grain corn harvest beginning. Fourth cutting alfalfa and dry beans being wrapped up. Seeding winter wheat in dust, some farmers still waiting for some rain to begin. Emergence of many dry-seeded fields somewhat spotty. Livestock in good condition coming off ranges.

**WEST VIRGINIA:** Temperatures near normal except northeast above normal. Precipitation over 2.00 in.

central and south, elsewhere 1.00 in. 15th and 16th with traces remainder of week.

Fieldwork: Suitable 3.5 days. Soil moisture short northeast and adequate to surplus elsewhere. Late harvesting of hay halted by rain. Some corn to pick, most silos filled. Late tobacco damaged by frosts. Livestock good condition, many farmers planning to winter smaller calves. Late seeding of small grains continues, rain will help germination in short moisture areas.

WISCONSIN: Temperatures averaged 8° subnormal. Mild early week, mid-60's south 16th and 17th. Colder on weekend, upper 30's north and east, 40's south. Lows in 20's on 20th with State low 18° Eau Claire. Precipitation light and spotty, only 0.10 in. most areas; rain south, snow north and east.

Corn for grain harvest going slow due to high moisture content, 10% harvested, 1973 and normal 20%. Lot of variation in moisture content, early corn below 30%, late corn upper 30's and low 40's. Farmers treating some corn with propionic acid to prevent spoilage. Last of silo filling and refilling going on. Soybean harvest 25% done, 1973 20%,

normal 15%. Early beans dry but late beans were still green when frozen, moisture content of soybeans running 12 to 15%. Fall plowing 30% done, 1973 35%, normal 30%. Plowing goes good where moisture adequate but pulls hard in dry ground. Soil moisture 60% short, 40% adequate. Winter wheat germination helped by rain weekends of October 5th and 12th. Pasture conditions far below normal as too dry and cold. Harvest going good for cranberries, apples, and remaining vegetable crops.

WYOMING: Temperatures during week above normal all areas, greatest departures in Green and Bear Drainage. Good rain and snow upper and lower Platte Drainages with reports of 0.50 in. No other measurable precipitation.

Good harvest weather. Sugarbeets 55% dug, 65% 1973. Potatoes 80% dug, 65% 1973. Picking corn for grain 35% complete, 10% picked 1973. Winter wheat prospects improved from previous weeks. Soil moisture short. Winter grazing prospects fair. Winter feed supplies adequate. Approximately 40% yearlings, 20% calves, 50% lambs marketed.

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## 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.

**HIGHLIGHTS:** Weather was a maverick in September with its pretense of being winter in North America, failing to deliver seasonal rains to India, and then spinning a vicious hurricane into Central America. As a consequence, there is somewhat less food and feed in the world. Wet weather has been a nuisance to harvest and fall seeding in parts of Eastern Europe-- especially Poland and Hungary-- while intense drought lingered in Bulgaria and southern Romania.

But there were a few roses as well as thorns; for the most part, harvest weather has been good and fall planting and preparation advanced reasonably well. Most of China has had good early fall rains which enhance winter crop prospects providing the rains ease and don't disturb planting preparations too much. And rains continued to provide West Africa the best crop prospects in years.

**GRAIN:** Producers are winding up the wheat harvest and making good progress with corn in most of the Northern Hemisphere without many weather problems. Wet weather, however, has delayed harvest in the Baltic region. Of course, unprecedented cold in September did damage immature grain in North America, including considerable corn in even southerly areas in Mexico. Downgraded by frost, more than the usual amount of Canadian wheat will go for feed.

Winter wheat planting is well along in Europe, USSR, and North America with only scattered wet or dry spots delaying progress. Dry conditions are especially troublesome in Bulgaria, southern Romania, and parts of the Ukraine.

The summer rainy season has ended for much of India leaving behind, with few exceptions, drier than usual soils, shortages of irrigation water, and disappointing yields. Consequently, prospects for winter wheat (planted in November-December) don't look optimistic.

Weather has been mostly favorable for growth and development of wheat in Australia, but very dry conditions are hurting wheat in southern and western portions of the Pampa region of Argentina.

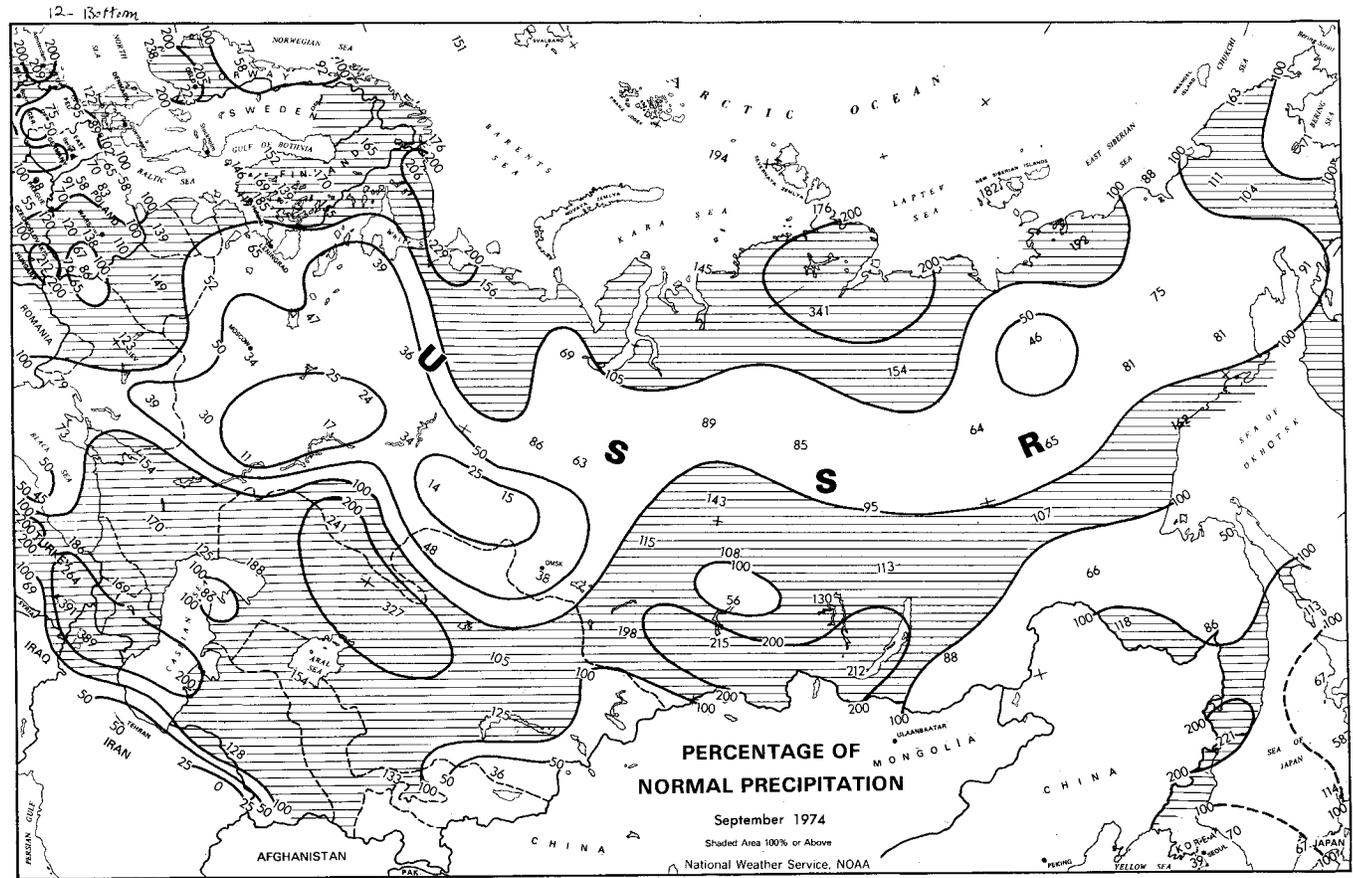
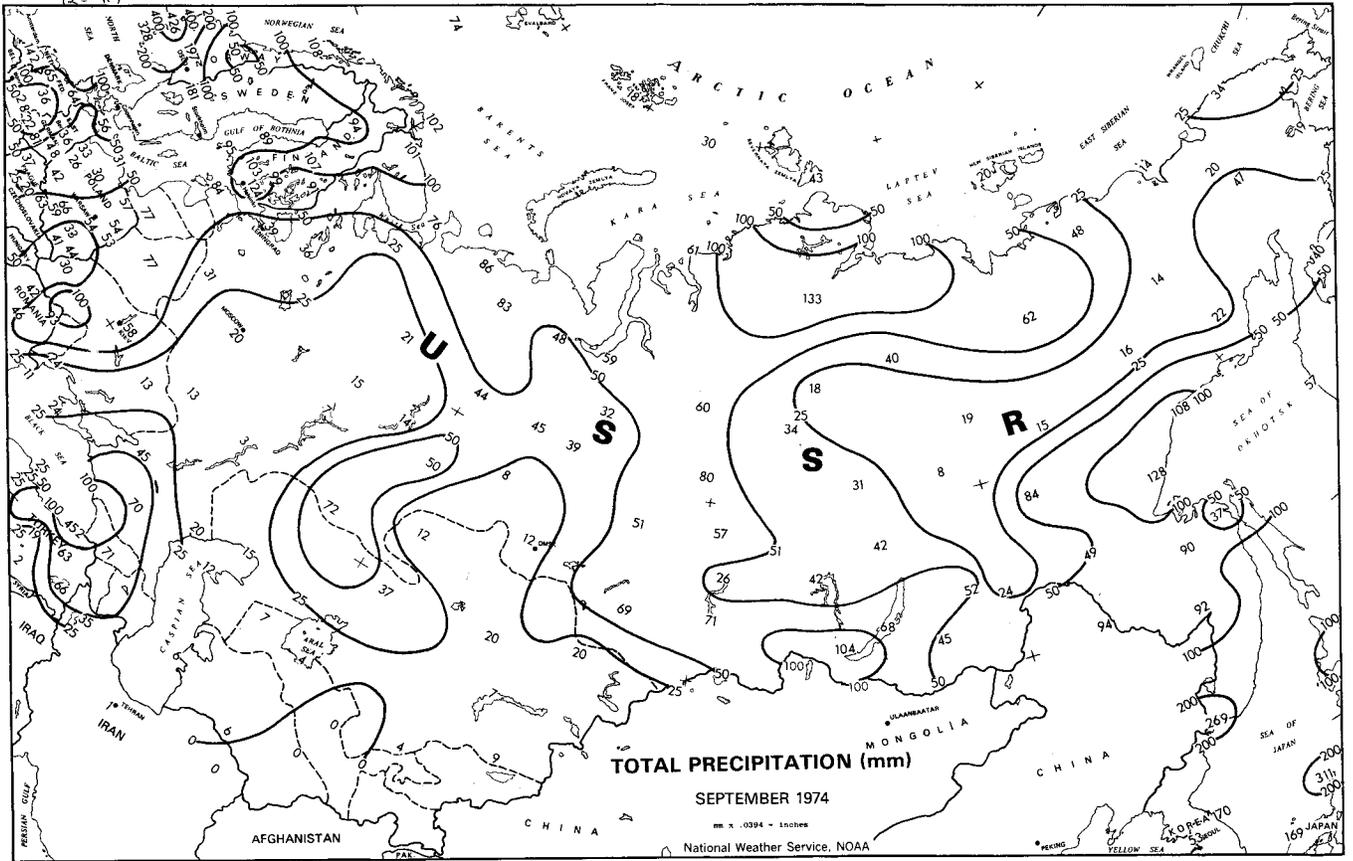
**FIBER:** Wet weather continued to delay cotton maturity and picking in Sinaloa/Sonora, Mexico, and parts of the U.S. where early frosts also cut prospects. Hurricane Fifi did some localized damage in Central America, yet overall production prospects were not reduced. Elsewhere in the Northern Hemisphere weather has been generally favorable for picking.

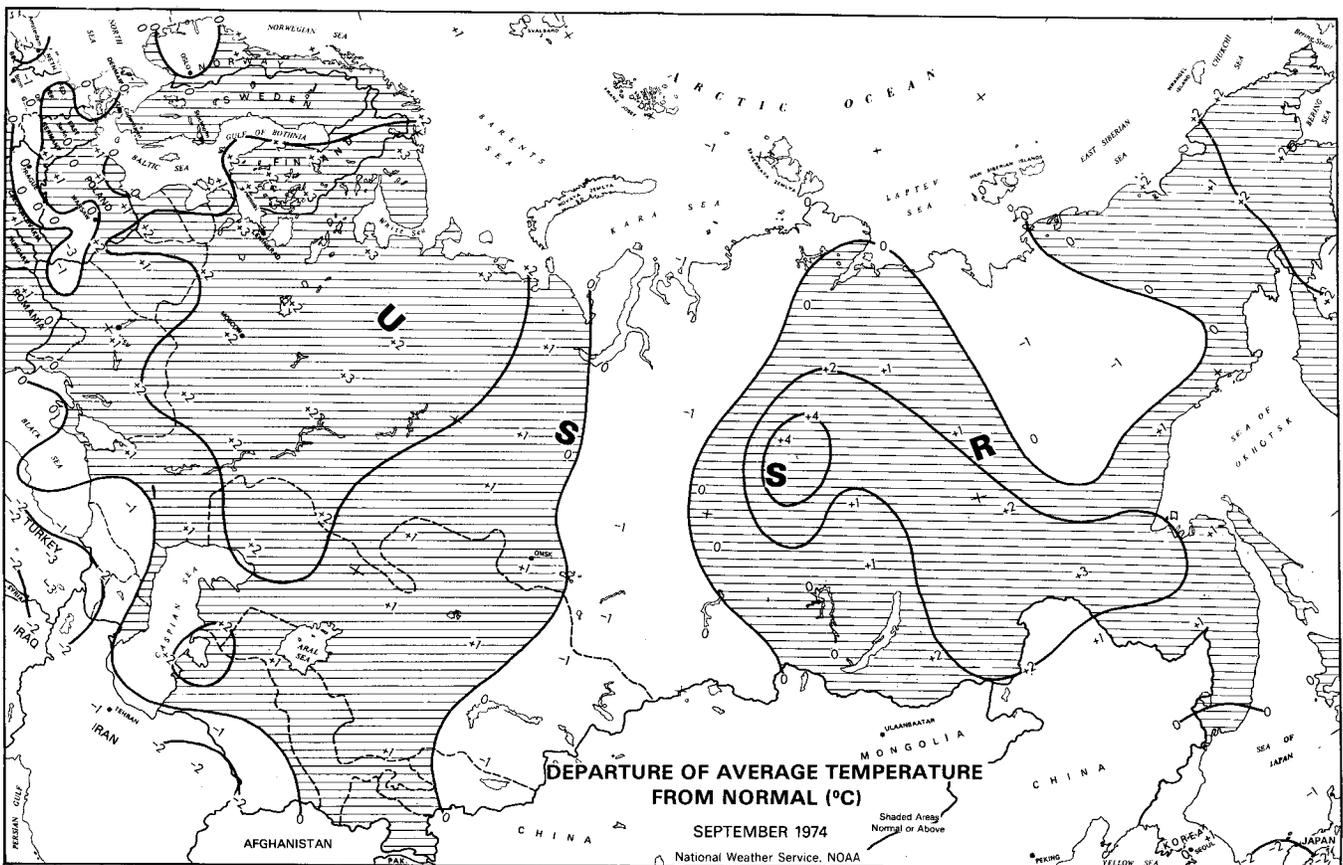
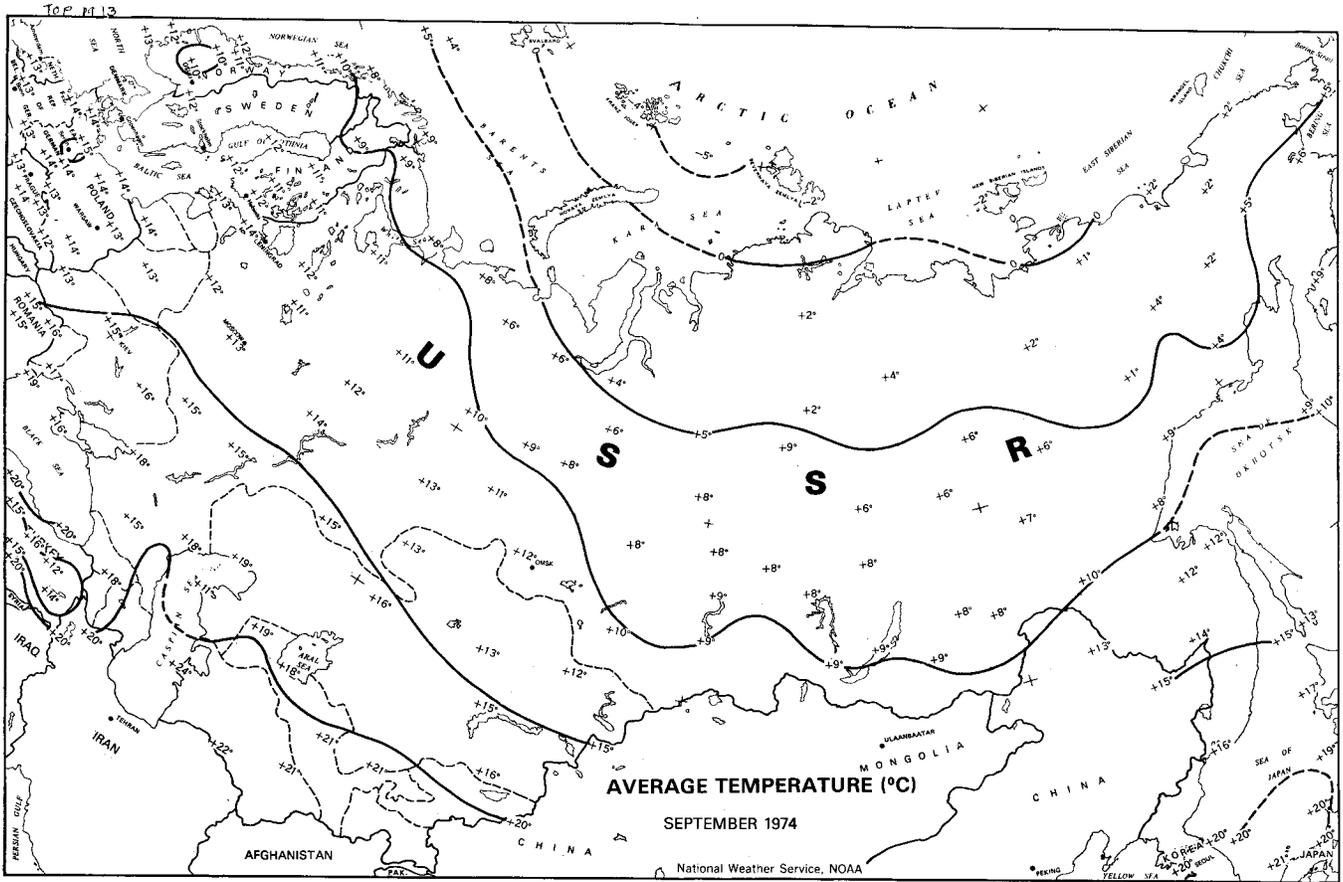
**OILSEEDS:** It has not really been a good year for oilseed crops in some key countries. On "area" alone, large crops were expected but early fall weather cut into U.S. soybean yields and Canadian rape and flax. Sunflower yield estimates in the USSR are significantly below those of a year ago. Also, India's oil crops suffered through an on-again-off-again monsoon that ended as it began-- dry. Countries of West Africa, including the Sahel region, continued to receive rains that were beneficial to peanuts, cotton, sesame, and African palms.

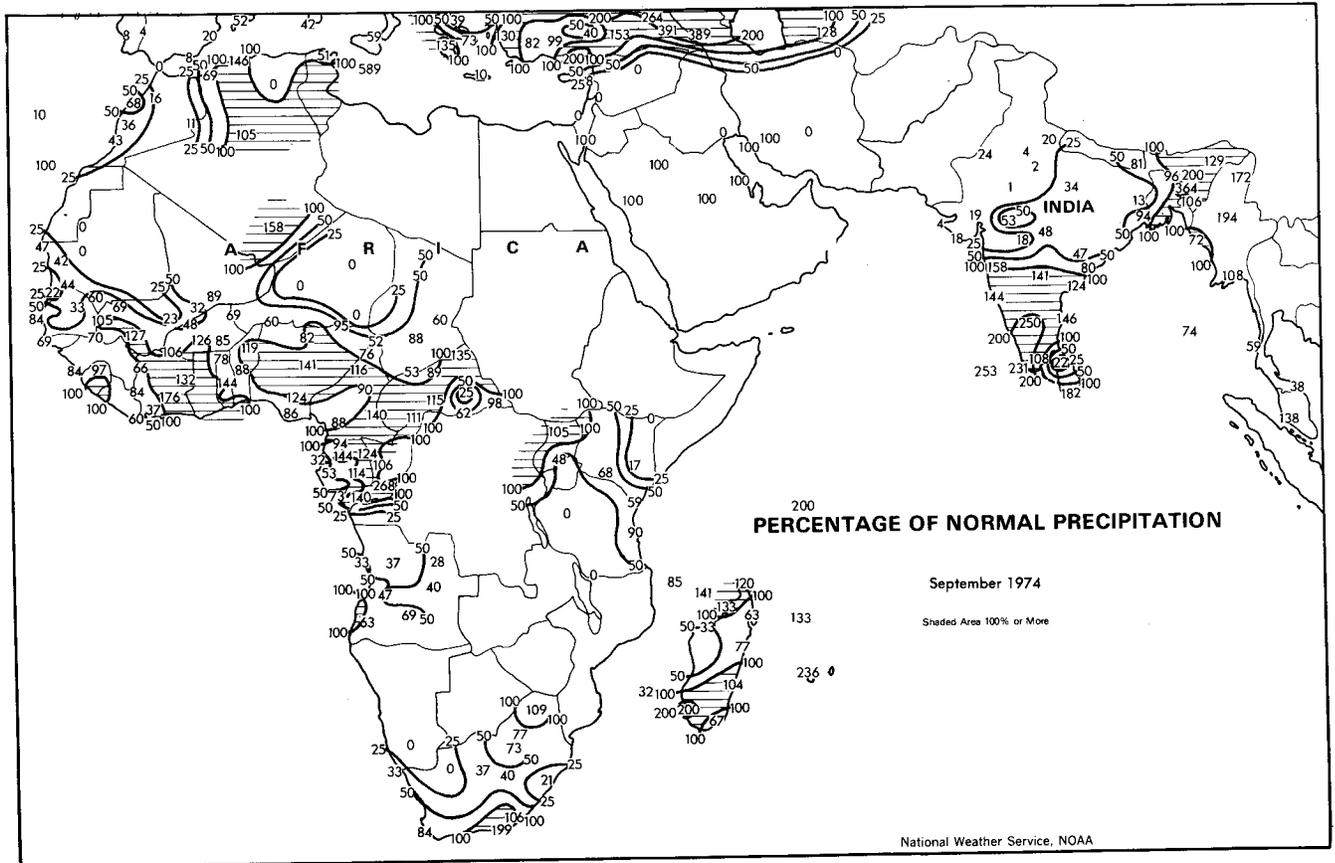
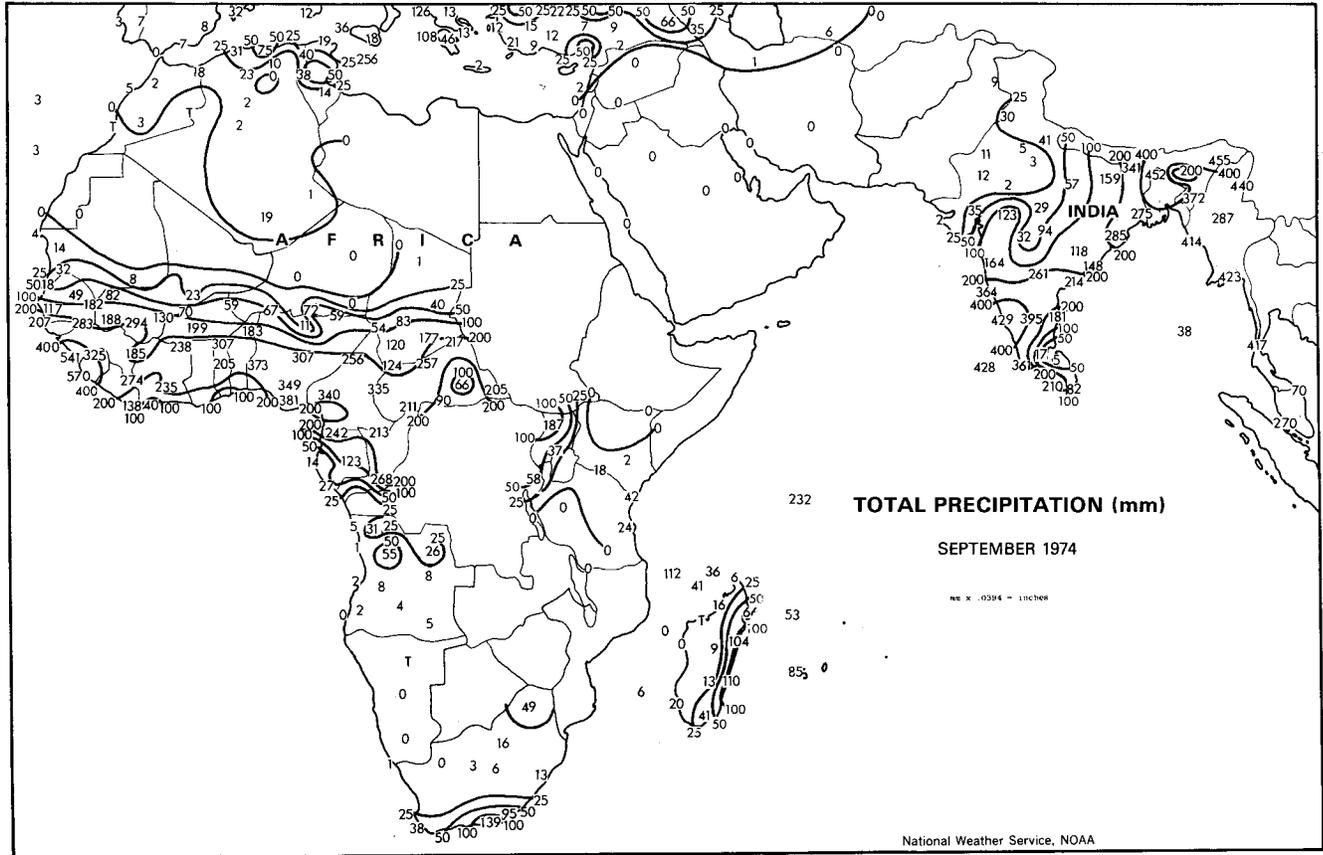
**HORTICULTURE:** Frost took a severe and premature bite out of vegetable production in North America, especially vegetables for processing in Ontario. But, the bite also extended into the U.S. southland. "Winter" drought has caused concern about citrus in Brazil's Sao Paulo state where some spots received little or no rain for three months. Reports indicate there has been some relief in October. Favorable weather helped Spain produce a record large crop of deciduous fruits for canning.

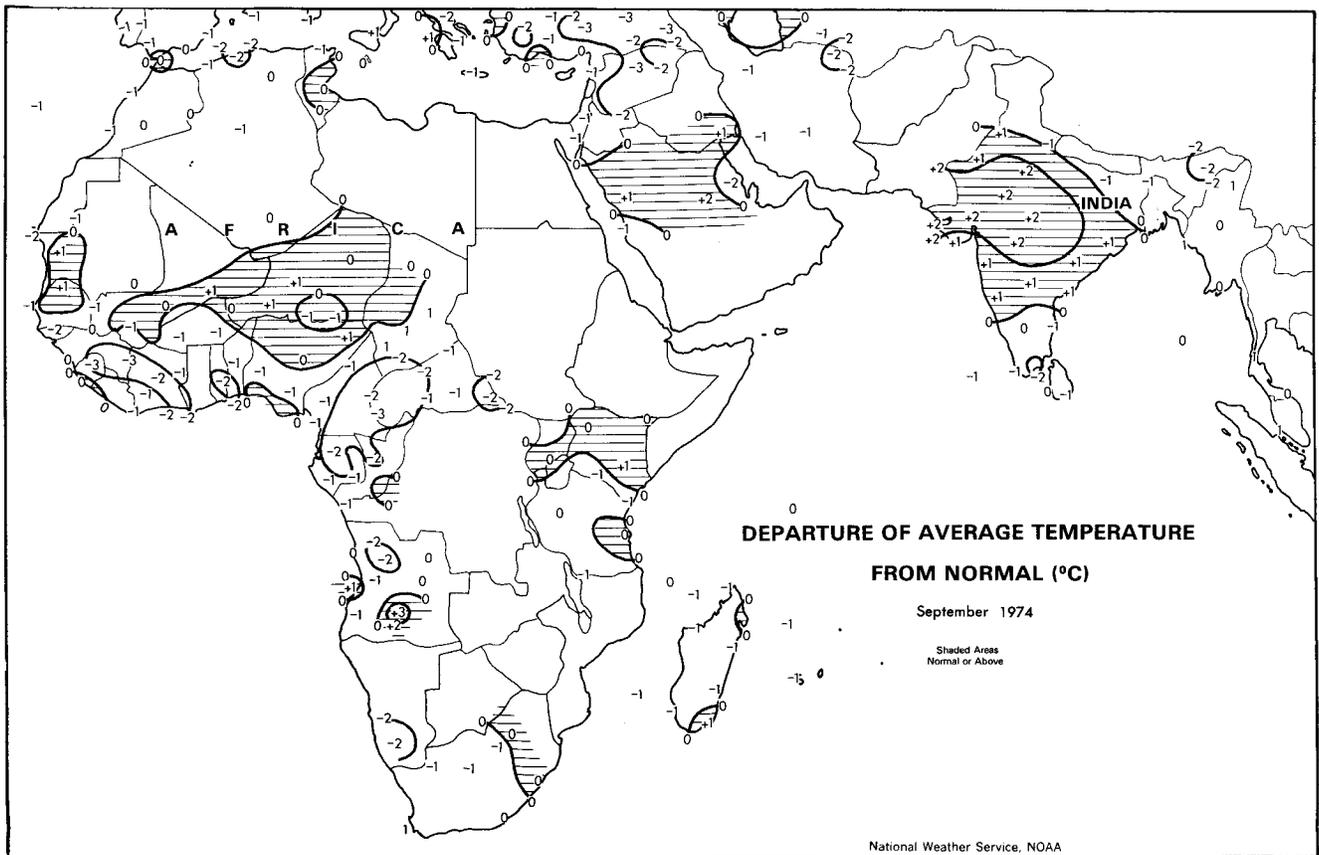
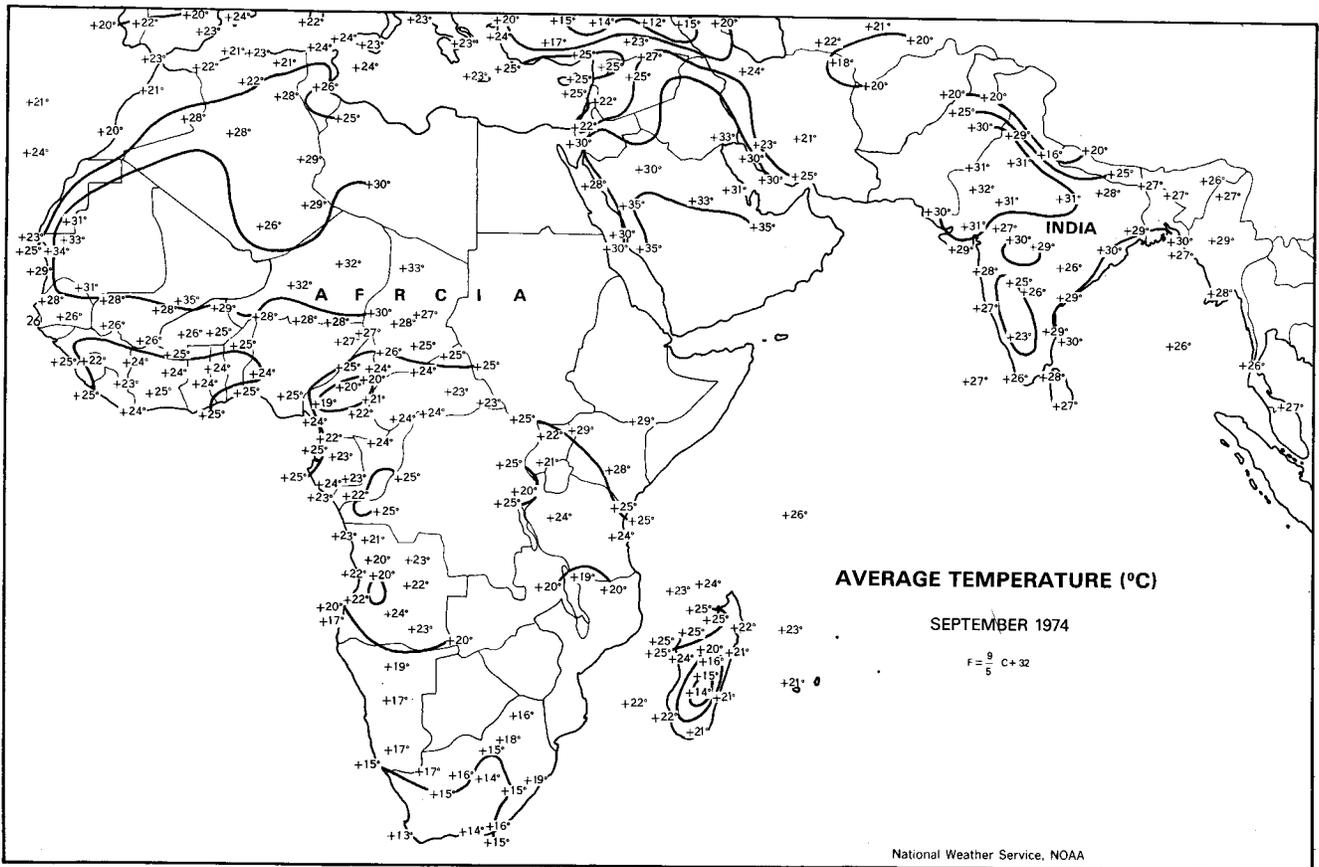
**OTHER CROPS:** September rains eased drought in central and western portions of France, but with below average temperatures many crops including sugarbeets were slow to mature. A good rainy season (and good local meat prices) has started an unprecedented buildup in cattle numbers in South Africa. Hurricane Fifi severely damaged many crops in Honduras, but the rains were beneficial to crops in neighboring countries, enhancing sugarcane prospects in particular. In Argentina and Paraguay, severe frosts at blossoming cut tunquoil prospects sharply.

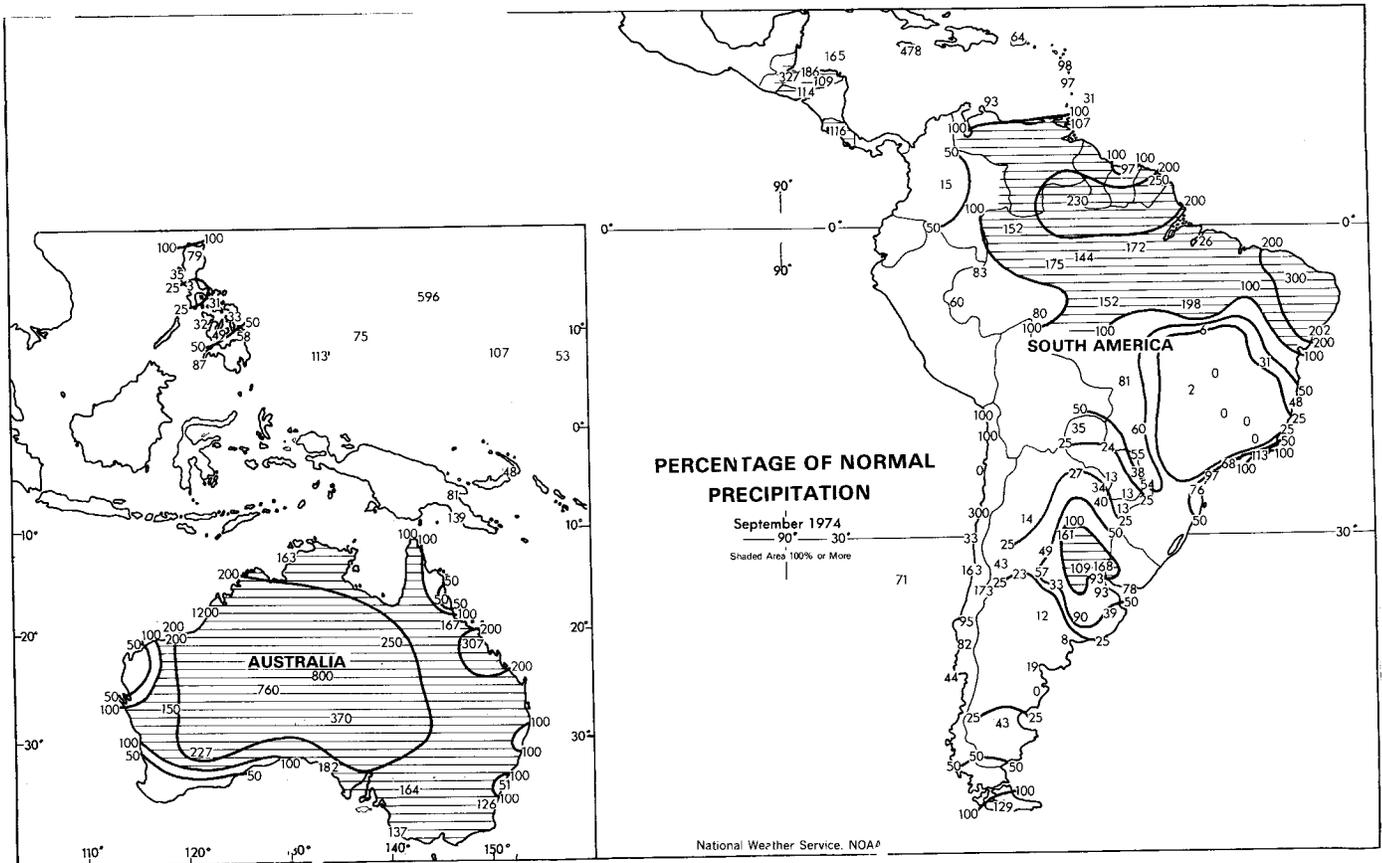
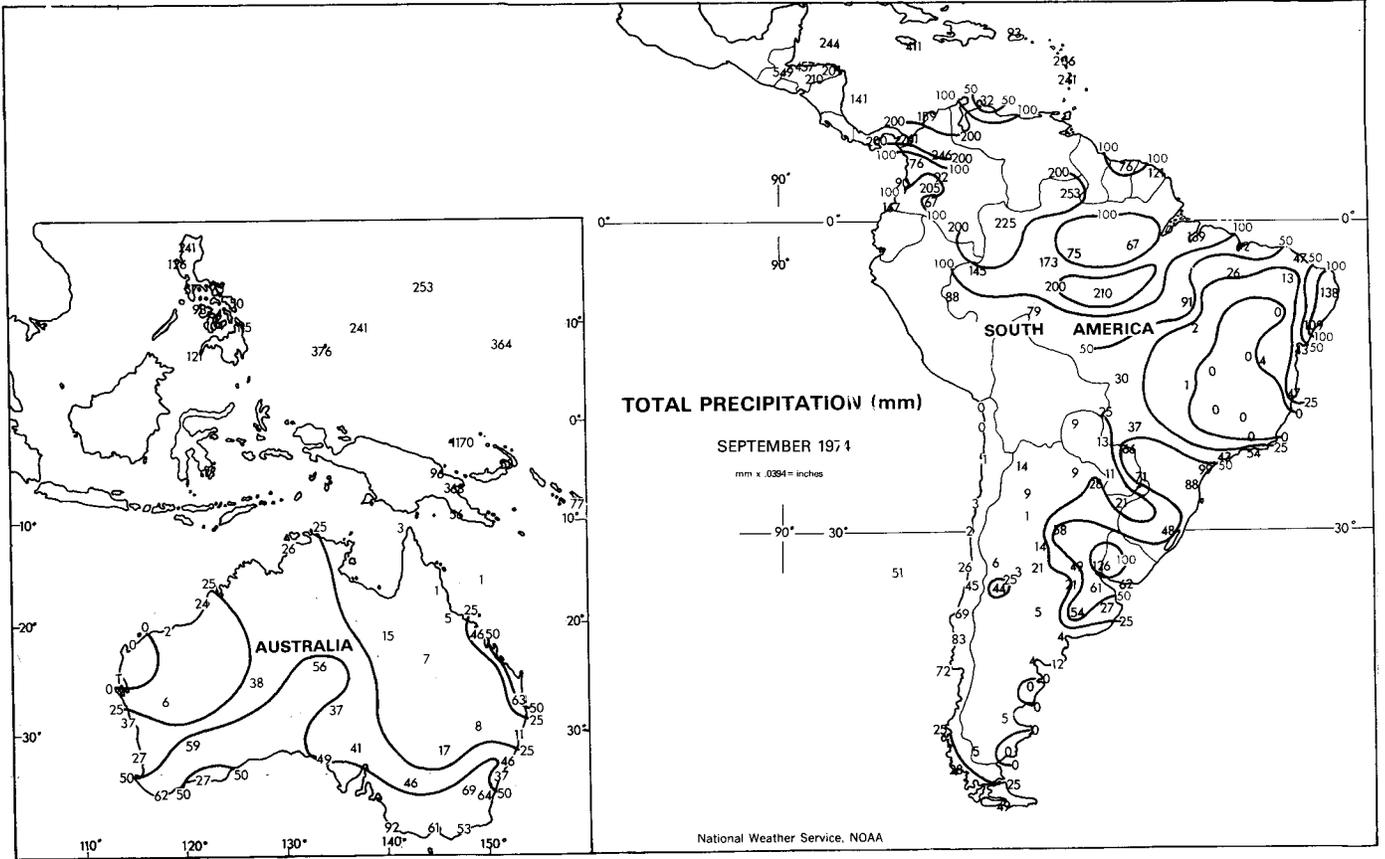
USDA FOREIGN AGRICULTURAL SERVICE  
W.J. Cremins  
October 21, 1974

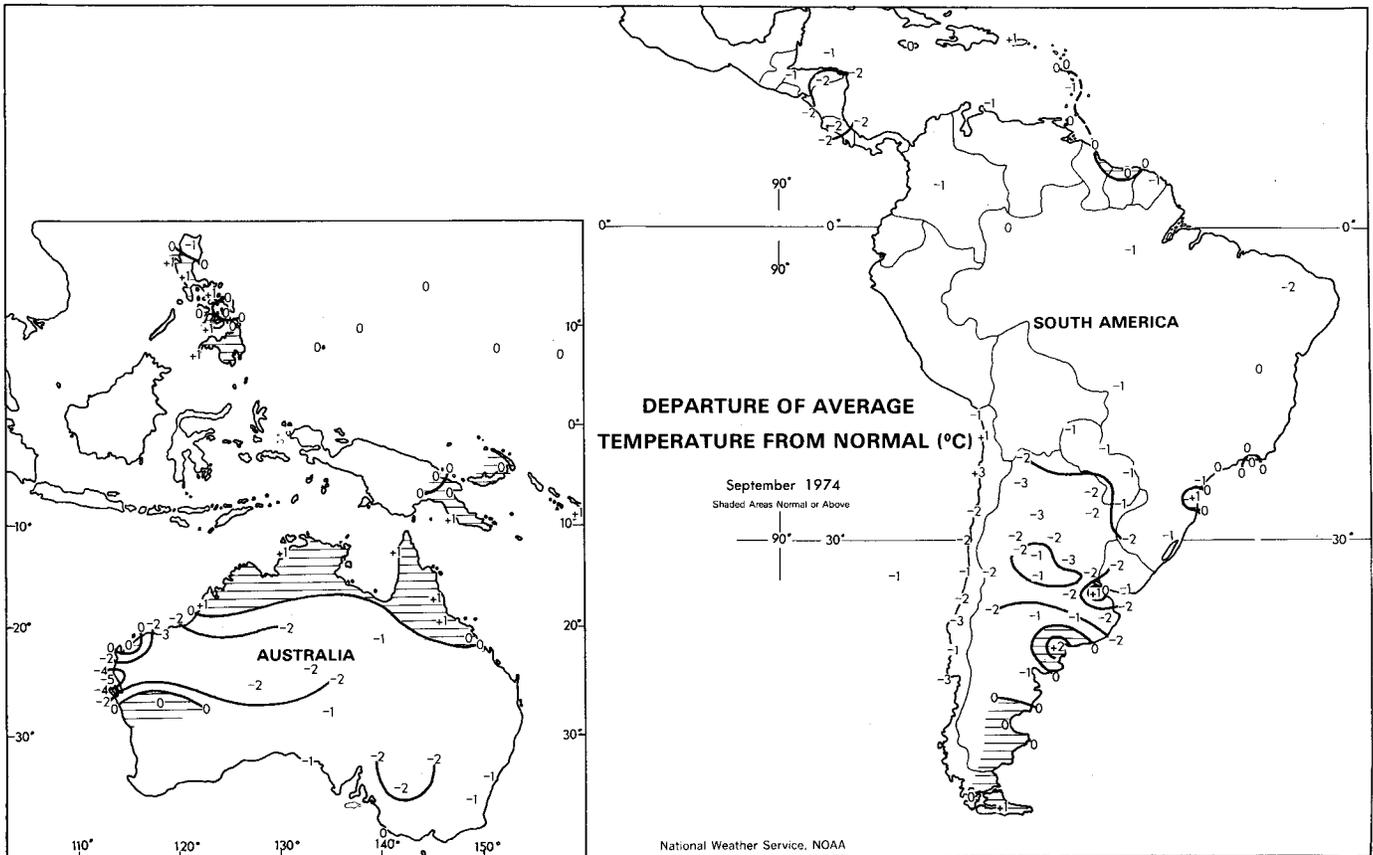
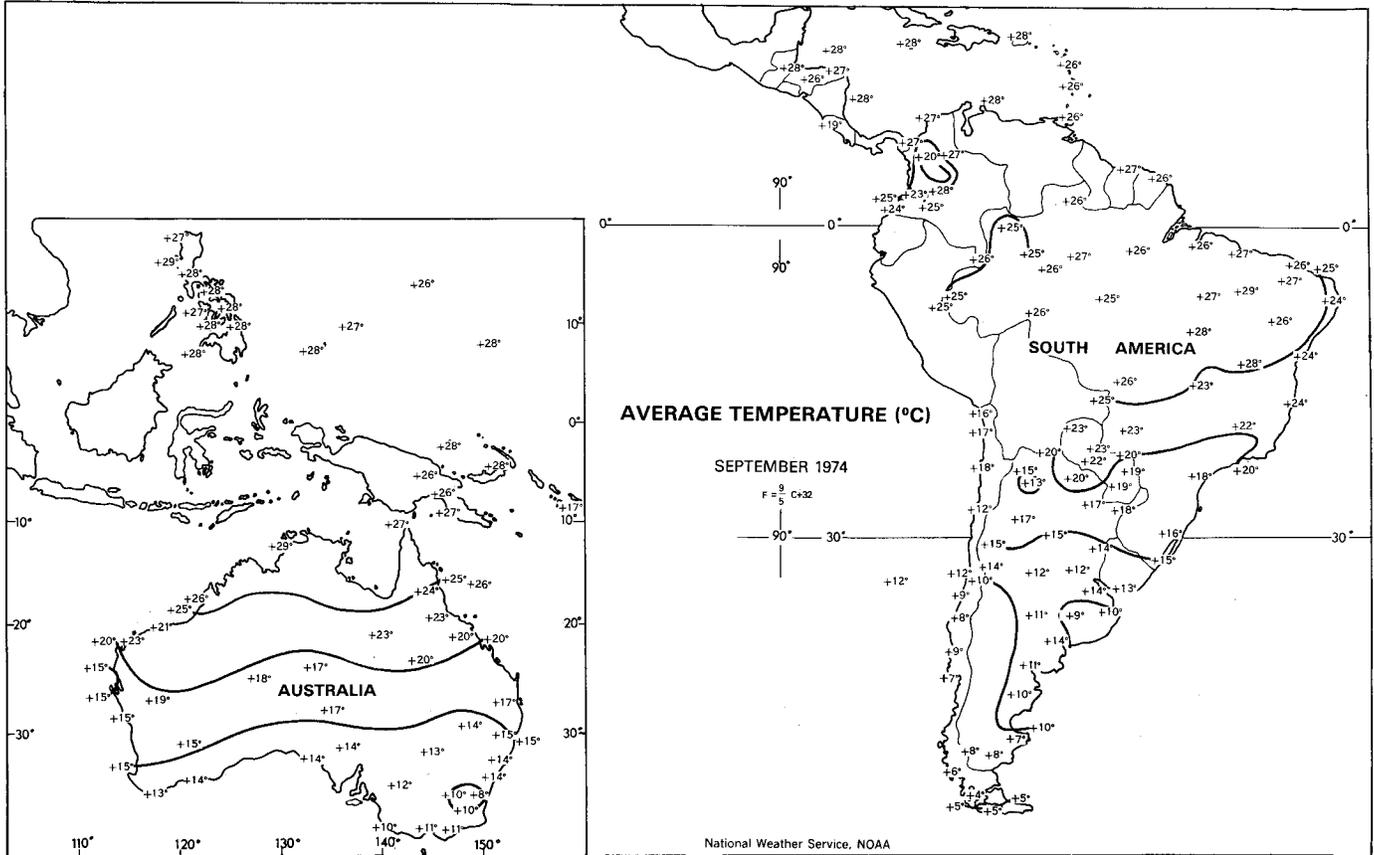


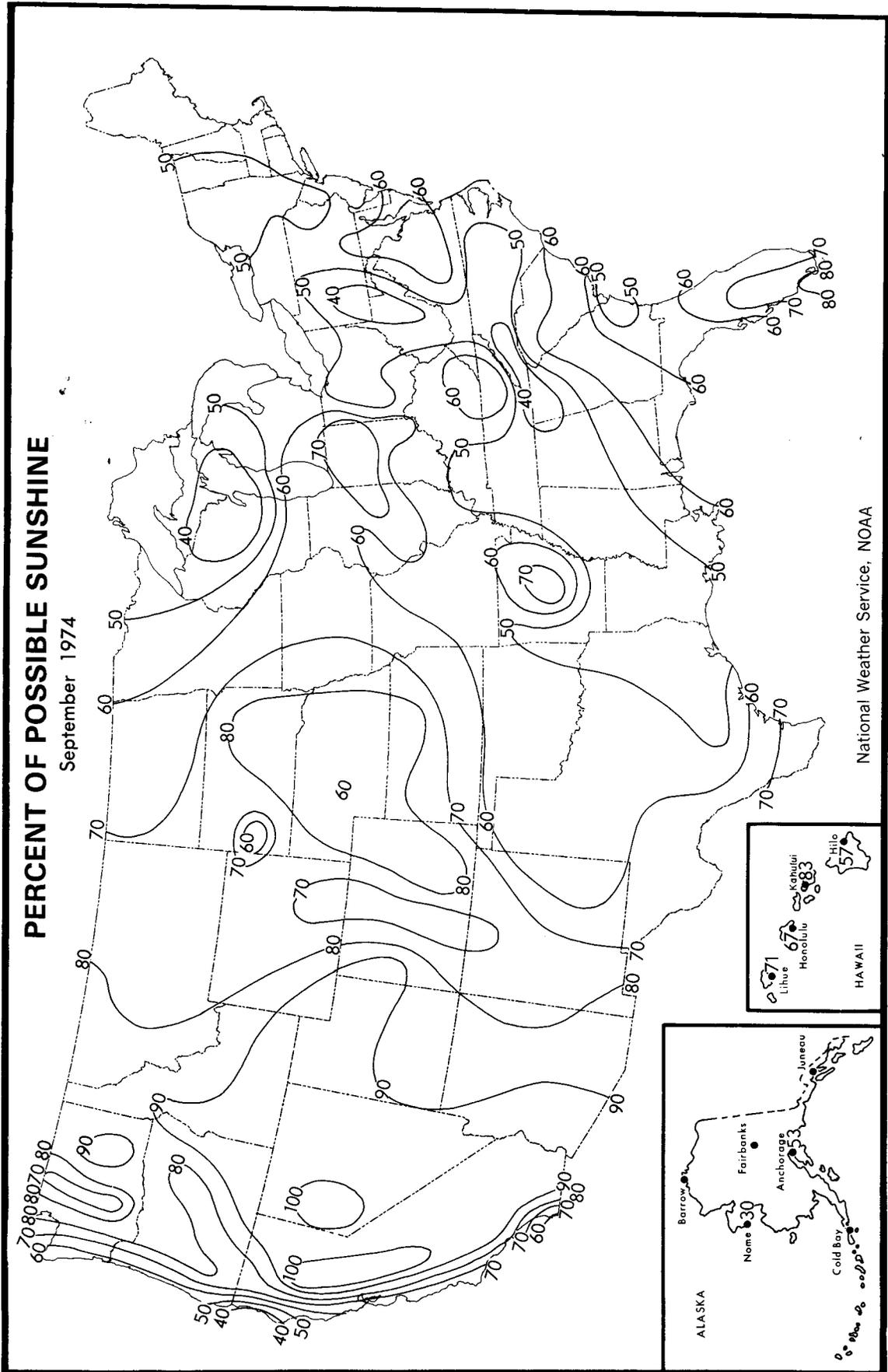


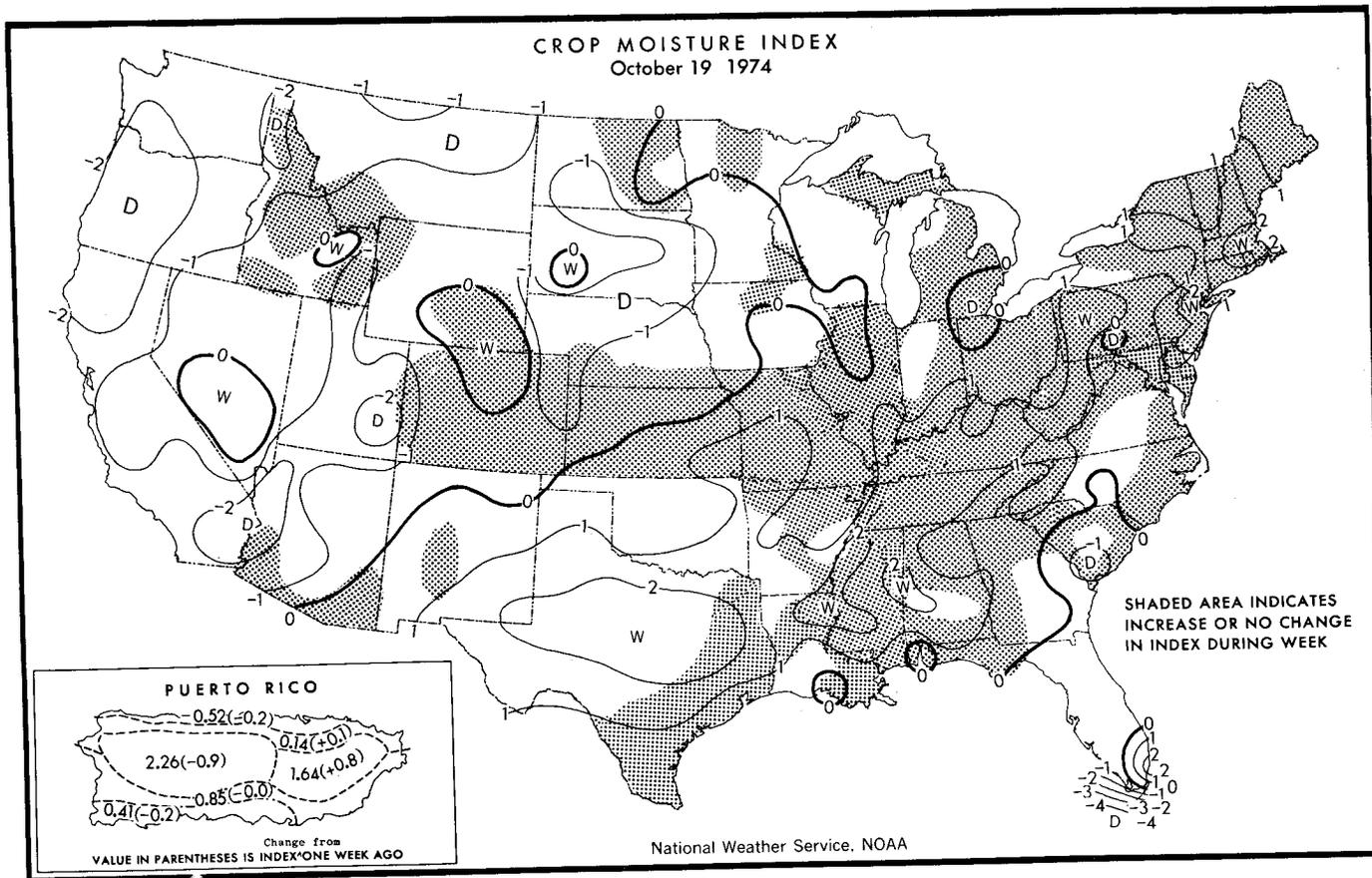












**SHADED AREAS:** Index increased or did not change last week

Index

- Above 3.0 Excessively wet, some fields flooded
- 2.0 to 3.0 Too wet, some standing water
- 1.0 to 2.0 Prospects good, some fields too wet
- 0 to 1.0 Moisture adequate for present normal needs
- 0 to -1.0 Prospects improved, but rain still needed
- 1.0 to -2.0 Some improvement, but still too dry
- 2.0 to -3.0 Drought eased, but still serious
- 3.0 to -4.0 Drought continues, rain urgently needed
- Below -4.0 Not enough rain, still extremely dry

**UNSHADED AREAS:** Index decreased last week

Index

- Above 3.0 Some drying, but still excessively wet
- 2.0 to 3.0 More drying weather needed, work delayed
- 1.0 to 2.0 Favorable, except still too wet in spots
- 0 to 1.0 Normal growth and fieldwork
- 0 to -1.0 Topsoil moisture short, germination slow
- 1.0 to -2.0 Abnormally dry, prospects deteriorating
- 2.0 to -3.0 Too dry, yield prospects reduced
- 3.0 to -4.0 Potential yields severely cut by drought
- Below -4.0 Extremely dry, most crops near ruin

The map gives a general picture of how wet or dry the Nation was last week. It shows areas where abnormal wetness or dryness have hindered crops and areas where moisture conditions have favored them.

The lines show the crop-moisture situation according to an index computed from values of temperature and precipitation by areas...350 climatological divisions, which correspond roughly to SRS's crop reporting districts. Previous weekly computations of soil moisture account for the effects of prior weather.

Shaded areas are those where precipitation increased the index last week or where soils did not dry. Unshaded areas dried last week.

The centers of wet or dry areas are marked: W=wet; D=dry. The map lines mark off crop situations. Use the legend to interpret.

Local variations caused by isolated rain or by soil differences are not shown. While shallow rooted crops in poor soils may suffer more than the map shows, conditions may be better where soils are good. Also, legends apply to growing rather than mature plants. Any map interpretation must consider both the growth stage and moisture status and trend. In irrigated regions, the index values reflect only departures from ordinary irrigation requirements.

Agricultural Climatology Service Office  
South Building Mail Unit  
U. S. Department of Agriculture  
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