

# WEEKLY WEATHER AND CROP BULLETIN

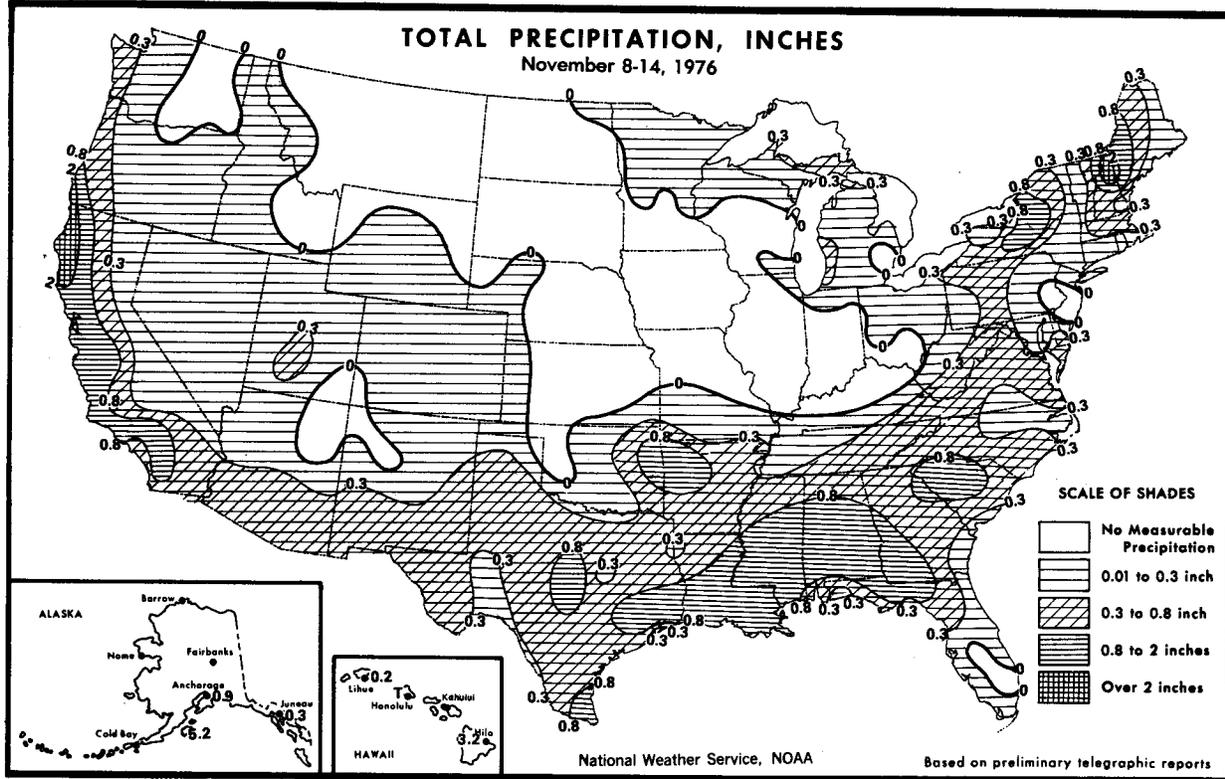
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## National Weather Summary

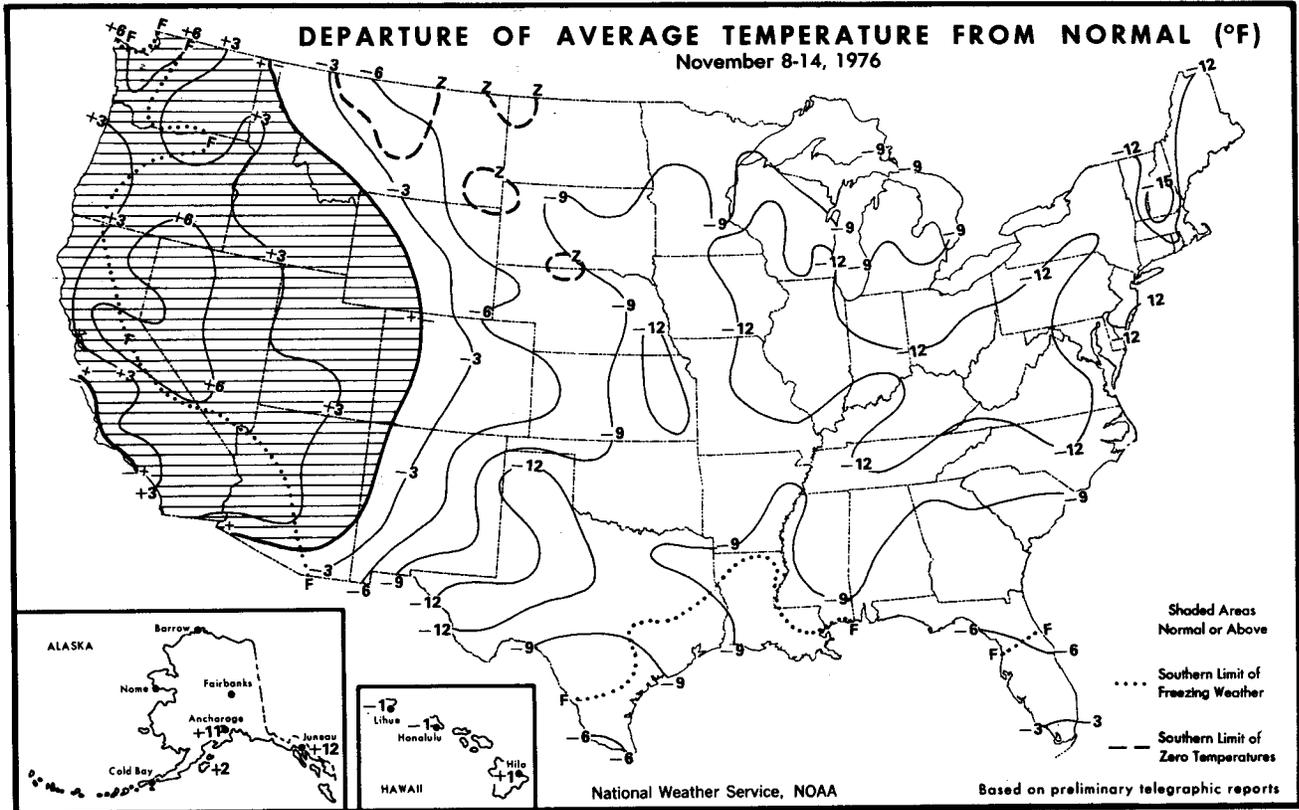
For the Week of November 8-14

**HIGHLIGHTS:** Another week of cold weather clutched the eastern three-fourths of the U.S. Average temperatures for the week were below normal in all areas east of the central Rockies. In west Texas, the central Plains, the Midwest, and Northeast temperatures averaged 12 to 14° below normal and many record temperatures were broken. Rain, heavy at times, fell in the West and Southwest. Snow began at midweek in the southern Rockies and moved eastward. Record amounts of 6 to 10 inches piled up in some areas of west Texas.

Cold air pushing southward on Monday continued to produce snow showers in the Great Lakes area and beyond into the Ohio Valley. By midday snow was accumulating in West Virginia, northeastern Ohio, and western Pennsylvania and by the end of the day it had spread into Maryland and Delaware. Wilmington, Del. reported the first snow of the season. A few rainshowers were re-

ported in western Washington State and in northern Idaho. Temperatures plunged in the upper and middle Mississippi Valley and the western Great Lakes area Monday morning. Record low temperatures included 9° at Dubuque, Iowa and Green Bay, Wis., 18° at Fayetteville, Ark. and 24° at Huntsville, Ala. West of the Rockies temperatures were still warmer than normal.

The cold air continued to push into the Southeastern States on Tuesday bringing with it one of the coldest nights of the season. Minimum temperatures dropped into the 20's or lower from the Great Lakes region to northern Florida. Some of the significant record low temperatures were: Cleveland, Ohio 19°, Philadelphia, Pa. 23°, Richmond, Va. 17°, Raleigh, N.C. 16°, Atlanta, Ga. 23°, and Tampa, Fla. 39°. In contrast to the unseasonably cold weather in the East, the western portion of the Nation was enjoying mild weather. Snow showers in the Lakes area and from West Vir-



ginia through New England continued. Later, Tuesday, another cold front moved into North Central U.S. and brought light snow to North Dakota and Minnesota. Elsewhere light rainshowers fell west of the coastal mountains from northern California through Washington.

Temperatures moderated over most of the Nation on Wednesday morning. The weather was cold east of the Rockies but few records were broken. The only exceptions were southern Georgia and northern Florida where morning lows dipped into the 30's. Elsewhere another cold outbreak was moving southward into the Plains. Light snow or rain fell from Montana and Wyoming eastward through the Lakes and from Ohio and Pennsylvania through New England. Later in the day showers and thunderstorms broke out from Oklahoma and east Texas to the lower Mississippi River. Showers continued from northwestern California through Washington.

The cold breath of winter covered the North Central States Thursday morning and the cold air was moving rapidly southward. Snow began falling over northern Oklahoma and southern Kansas and spread eastward during the day. By late Thursday snow was reported from the southern Appalachians through Tennessee and Kentucky to southeast Missouri and northern Arkansas and began spreading toward the middle Atlantic Coast. Showers and thunderstorms continued along the Gulf Coast and lower Mississippi Valley.

Snow blanketed the southern Appalachians and through Virginia and Maryland Friday morning as a storm system moved off the Atlantic Coast. Elsewhere a low pressure center moved into southwestern U.S. from the Pacific. As the low moved rapidly eastward, showers and thundershowers occurred in California and Arizona. Then, as the system contacted colder air, snow began falling in New

Mexico and west Texas. A large high pressure area centered over South Dakota continued to bring cold temperatures to most of the Nation. Afternoon readings from New England into the Plains and Rockies were only in the 20's and 30's. The cold air reached toward the Gulf Coast States by late Friday.

Snow, heavy at times, fell Saturday throughout the southern Rockies and southwestern Plains. Cold rain and drizzle spread eastward to east Texas and Louisiana. Freezing rain iced Arkansas. The snow in west Texas broke records as up to 10 inches piled up in some areas. In El Paso, Tex. 6 inches was the largest amount for so early in the season since 1889. Elsewhere another system moving onshore in the Northwest brought more rain and showers from central California through Washington. Meanwhile the cold air advanced to cover the entire U.S. from the Rockies eastward. Record low temperatures Saturday morning included: Concord, N.H. 5°, Concordia, Kan. 8°, Lake Charles, La. 35° and Columbia, S.C. 28°. The high temperature for the day reached only 36° at Houston, Tex.

The precipitation area continued moving eastward Sunday as moist air from the Gulf was lifted over the cold dome of air dominating the Nation. Snow and sleet extended from southeast Kansas and eastern Oklahoma across southern Missouri, northern Arkansas, Tennessee, and the mountains of northern Georgia. Rain fell south of these areas from the upper Texas Coast through Southern States. In the West rain pushed south along the California Coast and into the Great Basin. Cold temperatures remained entrenched over much of the Midwest and East. High temperatures in the Texas Panhandle and southern Plains remained in the 20's and stayed in the 30's in Arkansas, Tennessee, and northern sections of Mississippi and Alabama.

## National Agricultural Summary

For the Week of November 8-14

**HIGHLIGHTS:** Low temperatures chilled most of the Nation east of the Rocky Mountains producing scattered frost into parts of Florida, ending the growing season in much of the Southern States. Unseasonably early snows in some parts of the United States delayed harvests but farmers made good progress in spite of the handicap. Nationwide, corn for grain harvest advanced to 92% complete, soybean harvest reached 88%, sorghum 94% and cotton picking advanced to 53% complete. Winter wheat seeding was almost complete but dry topsoils and subsoils in some areas of the Great Plains loom as a potential problem unless winter precipitation replenishes low supplies.

**SMALL GRAINS:** The winter wheat crop was in fair to good condition at this time but several areas report low soil moisture supplies remain a possible problem. Unseasonably cool temperatures slowed crop development. Farmers finished planting in most major States except Texas where adverse weather conditions held progress to only 89% complete compared with 97% both last year and the average. In Oklahoma with wheat seedings nearly complete 95% of the crop emerged. Last year only 75% of the wheat emerged by this time. The Kansas wheat crop needs moisture to help development. Kansas cattlemen turned herds into 5% of the wheat acreage.

In South Dakota cold weather stopped fall grain growth and the crop lacked snowcover. In Montana wind caused only light damage to winter wheat. In Idaho winter wheat needs rain to help germination. Winter wheat emergence reached 97% in Colorado but the crop needs moisture. In Washington fall seeded grains grew under the influence of mild weather. Winter wheat planted following another crop needs moisture for emergence.

**CORN:** The United States corn crop was 92% harvested by November 14, short of the 94% attained last year but far ahead of the 78% average. Farmers in the western North Central States advanced to 98% complete almost the same as 1975's 99% but 21 points ahead of the average. In the eastern North Central States combining reached 87%, 4 points off last year's mark but 11 points ahead of the average. Harvest in the South Atlantic and South Central States moved to 89% complete, ahead of both last year and the average. Ohio farmers harvested 75% of their crop. Grain moisture tested high and some elevators ran short of gas for drying. No unusual transportation problems occurred.

**COTTON:** Cotton growers in the 11 major southern cotton producing States passed the halfway mark and reached 53% complete surpassing both last year's 46% and the 49% average. Along the Atlantic coast cotton growers lagged the harvest pace of recent years. Among the South Central States only Texas producers failed to equal or exceed the 1975 harvest rate. Cotton picking was active on the Texas plains but snow covered fields stopped stripping operations. Hard freezes completely defoliated the cotton crop on the low plains. Oklahoma farmers picked 25% of the cotton crop compared with only 2% at this time last year and the 13% average. Arkansas growers picked 79% of the crop equalling last year. Some farmers cut stalks and disked stubble.

**SOYBEANS:** United States farmers combined 88% of the soybean crop remaining ahead of the 1975 pace when they harvested 81%, and the average rate of 76%. Harvest was complete in most of the North Central States. Only Kansas and Missouri farmers had a significant acreage to combine. In the South Central States soybean harvest reached 79% complete compared with 71% last year and 67% normally. Arkansas, Oklahoma and Texas failed to exceed the 1975 harvest progress but surpassed the average progress for the date. Oklahoma farmers reached 50% harvest completion, 15 points behind 1975. Farmers in the South Atlantic States advanced to 36% complete, less than 1975's 39% and the 40% average.

**OTHER CROPS:** Sorghum harvest in the six major States advanced to 94% complete, 2 points short of 1975's harvest progress but significantly ahead of the 81% average. In Texas sorghum combining advanced rapidly on the plains and in North Texas reaching 97% complete. Oklahoma producers harvested 80% of the crop equalling last year and beating the average by 15 points. Kansas growers reached 90%, short of 1975's 95% but 20 points ahead of the average.

Peanut harvest was almost complete in most major producing States except Texas where growers reached 86% complete. Wet fields delayed digging and farmers abandoned some fields where rotting was too severe.

Kentucky tobacco growers stripped 34% of the burley getting ready for the market opening November 22. Tennessee growers stripped 65% of the burley, the same as last year but 5 points less than normal. The Virginia flue-cured market tapered off.

**FRUITS AND NUTS:** Florida citrus groves rated an excellent condition. Cool weather retarded moisture loss and improved fruit color. Groves need more rain but subsoil moisture was adequate. Texas growers picked a light volume of citrus. California growers harvested grapefruit, lemons, oranges and tangerines. Deciduous trees started dormancy in the Pacific Northwest.

**VEGETABLES:** Florida vegetable harvest increased with shipments up 21% from a week earlier. Cool, windy weather slowed plant growth and caused light leaf burn. Tomato, green pepper, snap beans, lettuce and celery supplies increased. Sweet corn, eggplant, squash, and radish supplies held steady. In Texas wet fields delayed fieldwork in some areas but a wide variety of vegetables moved to market. In California supplies of broccoli, cauliflower and lettuce slowed from the central coast. Growers picked some cauliflower, broccoli and snap beans in the Lower San Joaquin Valley. Lettuce production shifted to the desert valleys.

**PASTURE AND LIVESTOCK:** Grasslands were mostly in fair condition nationwide. Subnormal rainfall and temperatures in many of the Central States contributed to the low condition. Winter wheat produced near normal grazing for this time of year. In Texas snow provided moisture on the High Plains. In California showers relieved rangelands but water supplies remained low. South Dakota cattlemen faced with feed shortages fed corn stalks and moved cattle to other areas for feeding. Cattle were in fair to good condition.

Temperature and Precipitation Data for the Week Ending Midnight, L.s.t., November 14, 1976

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 . . .	44	-9	1.1	+ .3	La. Baton Rouge . . .	52	-8	1.6	+ .8	Youngstown . . . .	31	-11	.2	- .5
Mobile . . . . .	51	-9	.4	- .3	Lake Charles . . . .	52	-9	1.4	+ .5	OKLA, Okla. City . .	41	-10	.1	- .3
Montgomery . . . .	48	-8	1.2	+ .5	New Orleans . . . . .	54	-7	1.0	+ .2	Tulsa . . . . .	41	-10	.7	+ .3
ALASKA, Anchorage .	34	+11	.9	+ .7	Shreveport . . . . .	49	-8	.3	- .5	OREG, Astoria . . . .	52	+5	.3	-1.9
Barrow . . . . .	---	---	---	---	MAINE, Caribou . . .	23	-11	.2	- .6	Burns . . . . .	42	+5	.3	- .1
Fairbanks . . . . .	---	---	---	---	Portland . . . . .	32	-9	T	-1.1	Medford . . . . .	46	+1	.3	- .4
Juneau . . . . .	45	+12	.3	-1.0	MD, Baltimore . . . .	38	-10	.1	- .6	Pendleton . . . . .	44	+2	T	- .4
Kodiak . . . . .	38	+2	5.2	+3.9	MASS, Boston . . . .	37	-10	.3	- .7	Portland . . . . .	51	+5	.2	-1.1
Nome . . . . .	---	---	---	---	Chatham . . . . .	37	-10	.1	---	Salem . . . . .	48	+2	.2	-1.2
ARIZ, Flagstaff . . .	41	+3	T	- .3	MICH, Alpena . . . . .	30	-7	T	- .6	PA, Allentown . . . .	35	-9	T	- .8
Phoenix . . . . .	65	+4	.4	+ .3	Detroit . . . . .	32	-10	T	- .6	Harrisburg . . . . .	33	-9	.5	- .4
Tucson . . . . .	60	0	.4	+ .3	Flint . . . . .	32	-8	T	- .6	Philadelphia . . . .	37	-9	T	- .7
Winslow . . . . .	47	+2	0	- .1	Grand Rapids . . . .	30	-11	T	- .4	Pittsburgh . . . . .	31	-12	.1	- .8
Yuma . . . . .	65	0	.4	+ .4	Houghton Lake . . . .	28	-8	.1	- .5	Scranton . . . . .	34	-9	.1	- .6
ARK, Fort Smith . . .	41	-11	.9	+ .2	Lansing . . . . .	30	-10	.3	- .4	R. I. Providence . . .	33	-12	T	-1.1
Little Rock . . . . .	42	-10	.4	- .5	Marquette . . . . .	35	-7	.3	- .4	S. C. Charleston . . .	50	-8	.2	- .3
CALIF, Bakersfield . .	62	+5	.3	+ .2	Muskegon . . . . .	35	-5	.4	- .3	Columbia . . . . .	46	-9	1.7	+1.2
Eureka . . . . .	54	+2	2.4	+1.1	S. Ste. Marie . . . .	26	-9	.6	- .2	Greenville . . . . .	42	-11	.8	+ .1
Fresno . . . . .	56	+1	.9	+ .6	MINN, Duluth . . . . .	22	-9	T	- .4	S. D. Aberdeen . . . .	26	-7	T	- .1
Los Angeles . . . . .	64	0	.5	0	Internatl Falls . . .	20	-8	.1	- .3	Huron . . . . .	24	-11	T	- .1
Red Bluff . . . . .	60	+5	.5	- .2	Minneapolis . . . . .	27	-8	T	- .3	Rapid City . . . . .	29	-8	T	- .1
San Diego . . . . .	66	+5	.7	+ .4	Rochester . . . . .	22	-13	T	- .3	Sioux Falls . . . . .	26	-9	T	- .2
San Francisco . . . .	59	+3	1.4	+ .9	St. Cloud . . . . .	22	-10	T	- .3	TENN, Chattanooga . .	41	-9	.5	- .4
Stockton . . . . .	60	+6	.6	+ .2	MISS, Jackson . . . .	47	-9	1.6	+ .7	Knoxville . . . . .	40	-11	.3	- .5
COLO, Denver . . . . .	39	-2	.1	- .1	Meridian . . . . .	46	-9	1.6	+ .9	Memphis . . . . .	43	-9	.3	- .6
Grand Junction . . . .	43	+1	T	- .1	MO, Columbia . . . . .	32	-14	T	- .4	Nashville . . . . .	38	-12	.1	- .7
Pueblo . . . . .	37	-5	.1	0	Kansas City . . . . .	34	-9	T	- .4	TEX, Abilene . . . . .	42	-13	.6	+ .3
CONN, Bridgeport . . .	39	-9	.1	- .8	St. Louis . . . . .	33	-14	T	- .6	Amarillo . . . . .	36	-12	.4	+ .3
Hartford . . . . .	34	-10	T	- .9	Springfield . . . . .	36	-11	.1	- .5	Austin . . . . .	51	-9	.5	0
D. C. Washington . . .	40	-10	.1	- .6	MONT, Billings . . . .	32	-5	0	- .2	Beaumont . . . . .	52	-9	1.0	0
FLA, Apalachicola . .	56	-6	.8	+ .2	Glasgow . . . . .	25	-6	T	- .1	Brownsville . . . . .	63	-6	1.2	+ .9
Daytona Beach . . . .	60	-6	.1	- .4	Great Falls . . . . .	32	-4	T	- .2	Corpus Christi . . . .	59	-7	.5	+ .1
Ft. Myers . . . . .	66	-4	.1	- .2	Havre . . . . .	25	-7	0	- .1	Dallas . . . . .	---	---	---	---
Jacksonville . . . . .	53	-9	.1	- .3	Helena . . . . .	32	-1	0	- .1	Del Rio . . . . .	53	-8	.1	- .1
Key West . . . . .	73	-3	.1	- .6	Kalispell . . . . .	30	-2	T	- .3	El Paso . . . . .	42	-11	.7	+ .6
Lakeland . . . . .	64	-4	0	- .3	Miles City . . . . .	27	-7	T	- .1	Fort Worth . . . . .	48	-9	.5	- .0
Miami . . . . .	70	-3	.1	- .6	Missoula . . . . .	33	-1	T	- .2	Galveston . . . . .	55	-10	.2	- .5
Orlando . . . . .	62	-6	.1	- .3	NEBR, Grand Island . .	32	-8	0	- .1	Houston . . . . .	52	-10	.8	- .1
Tallahassee . . . . .	53	-7	1.0	+ .4	Lincoln . . . . .	29	-12	0	- .2	Lubbock . . . . .	39	-11	.4	+ .3
Tampa . . . . .	63	-5	T	- .4	Norfolk . . . . .	29	-9	T	- .1	Midland . . . . .	43	-12	.3	+ .2
W. Palm Beach . . . .	67	-5	0	- .6	N. Platte . . . . .	30	-8	T	- .1	San Angelo . . . . .	45	-12	.5	+ .2
GA, Atlanta . . . . .	44	-9	.7	- .1	Omaha . . . . .	31	-9	0	- .3	San Antonio . . . . .	53	-8	.6	+ .3
Augusta . . . . .	47	-8	.6	+ .1	Valentine . . . . .	27	-9	T	- .1	Victoria . . . . .	55	-9	.4	- .2
Macon . . . . .	50	-6	.5	0	NEV, Ely . . . . .	38	+3	.2	+ .1	Waco . . . . .	49	-10	.3	- .3
Savannah . . . . .	51	-7	.1	- .3	Las Vegas . . . . .	60	+5	T	- .1	Wichita Falls . . . .	44	-10	.3	0
HAWAII, Hilo . . . . .	75	+1	3.2	+ .1	Reno . . . . .	45	+4	.1	0	UTAH, Blanding . . . .	41	+1	T	- .2
Honolulu . . . . .	76	-1	T	- .7	Winnemucca . . . . .	44	+6	.2	- .8	Salt Lake City . . . .	43	+2	T	- .3
Kahului . . . . .	---	---	---	---	N. H. Concord . . . . .	23	-17	.1	- .8	VT, Burlington . . . .	29	-10	.1	- .6
Lihue . . . . .	75	+1	.2	-1.1	N. J. Atlantic City . .	36	-12	T	-1.0	VA, Lynchburg . . . . .	36	-13	.3	- .2
IDAHO, Boise . . . . .	42	+1	.1	- .2	Trenton . . . . .	38	-10	T	- .8	Norfolk . . . . .	42	-11	.5	- .3
Lewiston . . . . .	46	+5	T	- .3	N. MEX, Albuquerque . .	41	-5	T	- .1	Richmond . . . . .	38	-13	.3	- .4
Pocatello . . . . .	39	+2	0	- .2	Roswell . . . . .	41	-7	.4	+ .3	Roanoke . . . . .	35	-13	.6	0
ILL, Cairo . . . . .	39	-11	.1	- .8	N. Y. Albany . . . . .	31	-11	.2	- .4	WASH, Colville . . . .	37	+2	T	- .5
Chicago . . . . .	31	-11	T	- .5	Binghamton . . . . .	27	-13	.1	- .7	Omak . . . . .	40	+4	0	- .4
Moline . . . . .	28	-13	0	- .4	Buffalo . . . . .	32	-10	.1	- .8	Quillayute . . . . .	50	+5	.6	-2.6
Peoria . . . . .	29	-13	0	- .5	New York . . . . .	40	-9	T	- .9	Seattle-Tacoma . . . .	51	+6	.1	-1.3
Rockford . . . . .	26	-14	T	- .6	Rochester . . . . .	33	-10	.2	- .5	Spokane . . . . .	39	+2	T	- .5
Springfield . . . . .	31	-13	0	- .5	Syracuse . . . . .	33	-10	.8	0	Walla Walla . . . . .	45	+1	T	- .4
IND, Evansville . . . .	36	-11	0	- .7	N. C. Asheville . . . .	39	-9	.4	- .2	Yakima . . . . .	41	+1	T	- .2
Ft. Wayne . . . . .	32	-10	T	- .6	Charlotte . . . . .	42	-11	.7	+ .1	W. Va. Beckley . . . .	29	-14	.7	0
Indianapolis . . . . .	32	-12	0	- .7	Greensboro . . . . .	38	-12	T	- .6	Charleston . . . . .	33	-14	.2	- .4
South Bend . . . . .	32	-10	.3	- .3	Hatteras . . . . .	48	-9	T	-1.1	Huntington . . . . .	36	-11	T	- .7
IOWA, Burlington . . .	29	-13	0	- .4	Raleigh . . . . .	39	-13	.3	- .3	Parkersburg . . . . .	35	-12	T	- .6
Des Moines . . . . .	30	-10	T	- .4	Wilmington . . . . .	47	-10	.5	- .2	WIS, Green Bay . . . .	26	-10	T	- .5
Dubuque . . . . .	25	-13	T	- .6	N. DAK, Bismarck . . .	24	-7	T	- .1	La Crosse . . . . .	26	-12	T	- .4
Sioux City . . . . .	28	-10	T	- .2	Fargo . . . . .	23	-8	T	- .2	Madison . . . . .	27	-10	T	- .5
KANS, Concordia . . . .	34	-9	0	- .2	Williston . . . . .	23	-7	T	- .1	Milwaukee . . . . .	26	-13	T	- .5
Dodge City . . . . .	38	-6	T	- .2	OHIO, Akron-Canton . .	31	-12	.1	- .5	WYO, Casper . . . . .	32	-4	.2	0
Goodland . . . . .	36	-4	T	- .1	Cincinnati . . . . .	33	-13	0	- .7	Cheyenne . . . . .	31	-6	.1	0
Topeka . . . . .	33	-12	0	- .3	Cleveland . . . . .	33	-11	.3	- .4	Lander . . . . .	34	+1	T	- .2
Wichita . . . . .	37	-10	T	- .3	Columbus . . . . .	32	-12	T	- .6	Sheridan . . . . .	29	-6	T	- .2
N. Y. Lexington . . . .	34	-12	T	- .8	Dayton . . . . .	33	-11	T	- .6	P. R. San Juan . . . .	81	+2	.7	- .6
Louisville . . . . .	37	-10	T	- .8	Toledo . . . . .	31	-11	T	- .6					

Based on 1941-70 Normals

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## State Summaries of Weather and Agriculture

These summaries provide brief descriptions of crop and weather conditions important on a national scale. More detailed data are available in Weather and Crop Bulletins published each Monday by SRS State offices in cooperation with the National Weather Service, NOAA.

**ALABAMA:** Cold; first rain in 2 weeks. Temperatures averaged 7° below normal. Rainfall amounts ranged from 1.00 to 2.00 in.

Fieldwork: 5.0 days suitable. Soil moisture short to adequate. Major activities: Harvesting cotton, corn and soybeans and seeding small grains. Cotton harvest 51% complete, 45% 1975, 68% average. Corn harvest 88% complete, 82% 1975, 83% average. Soybean harvest 72% complete, 63% 1975, 67% average. Seeding small grains 80% complete, 76% 1975, 84% average. Pastures fair to good. Pecans poor.

**ARIZONA:** Sunny, mild early then rain and snow later. Precipitation over 0.50 in. south. Snow levels down to 4,000 ft. 1 to 2 in. southeast, White Mountains. Temperatures 3° below normal to 4° above.

Rainfall halted field operations. Cotton, sorghum grain, sugarbeet harvest continued. Land preparations small grains nearly complete. Few alfalfa fields cut. Renovation, planting complete. Lettuce harvest full swing central areas. Harvesting fall melons. Navel orange, Algerian tangerine, Orlando tangelo, grapefruit, lemon harvest underway. Scattered showers replenished soil moisture. Range conditions poor in desert, above normal at higher elevations. Stock water short deserts, adequate mountains. Livestock good condition. Calves moving to market.

**ARKANSAS:** Cold, light to moderate precipitation, some snow in north. Temperatures 8 to 13° below normal. Extremes: 78 to 10°. Rainfall 0.06 in. to 1.52 in.

Soil moisture adequate. Fieldwork: 4.5 days suitable. Soybeans 74% harvested, 76% year ago, average 67%. Cotton harvest 79% complete, same as last year, average 72%. Stalks cut and stubble disked. Low picker efficiency. Rice harvest virtually complete, same as year ago. Sorghum virtually all harvested. Wheat planting 80% complete, 79% last year, average 77%. Oat planting 84% complete. Pastures in south third providing adequate feed, elsewhere short.

**CALIFORNIA:** Temperatures well above normal. Highest temperatures mostly 80's, but a few 90's south coast and southeast interior. Lowest temperatures in 20's High Sierra and northeast interior. Some precipitation, greatest amounts 11th, mainly coastal areas.

Rain late week benefit small grain. Rice harvest almost complete. First pick on cotton nearly complete San Joaquin Valley. Field corn and milo harvest active. Avocado, date, grapefruit, lemon, orange, tangerine harvests continue. Vegetables entering late fall to early winter phase. Central coast production slowing for broccoli, cauliflower, and lettuce. Lower San Joaquin Valley producing cauliflower and some broccoli and snap beans. Lettuce production shifting to desert valleys as westside production nears completion. Showers gave relief to dry rangeland, but grasses suffer, many areas. Water supplies remain low. Supplemental feeding continues.

**COLORADO:** Early week temperatures mild. Weather dry. Freezing drizzle, light snow east on 7th. Late 12th disturbance produced snow mountains. Few rain showers lower elevations. Temperatures 3 to 5° above normal southwest, 1 to 2° above normal north and east.

Winter wheat emergence 97%. Grain sorghum harvested 94%, 99% 1975, 65% average. Corn for grain harvested 76%, 91% 1975, 70% average. Sugarbeet harvested 93%, 99% 1975, 96% average. Topsoil moisture short. Subsoil short. Ranges and pastures fair. Livestock good.

**FLORIDA:** Unseasonably cold. Early week record low temperatures established north and central with frost, sub-freezing temperatures north, scattered frost central. Dry conditions prevailed until 13th and 14th when moderate rain fell northern half.

Soil moisture mostly adequate south and west, short central and north. Soybean, cotton and sugarcane harvest active. Harvest other field crops practically complete. Seeding small grains active. Growth slow on early seedings due to cold Panhandle, dry conditions central, north. Grazing conditions poor to good. Frost damage permanent pastures, Panhandle, north, some central areas. Small grain seeding for winter forage progressing slowly, insufficient soil moisture for germination. Cattlemen supplemental hay feeding where necessary. Cattle, calves generally good condition. Citrus groves excellent condition. Cool weather retarded moisture loss, improved fruit color. More rain needed but sub-soil levels sufficient most areas. Harvest increasing. Young tree banking active. Vegetable harvest increasing. Overall outshipments up 21%. Tomato, green pepper shipments increased substantially. Steady supplies sweet corn, eggplant, squash, radishes. Snap bean shipments increased as both bush, pole beans harvesting. Light, increasing supplies lettuce, escarole-endive, celery. Continued cool, windy weather slowing plant growth, causing light leaf burn.

**GEORGIA:** Temperatures 6 to 8° below normal north and central, 7 to 9° extreme south. Rainfall 0.50 in. extreme north, 0.10 in. central to none south. Rainfall over weekend variable averaged around 0.75 in. north and 0.25 to 0.50 in. south.

Soil moisture extremely variable, mostly adequate. Fieldwork: 5.0 days suitable. Harvesting very active. Cotton condition mostly fair to good, 95% open, 54% harvested, last year 62%. Soybeans fair to good condition, 42% combined, last year 51%. Corn condition fair to mostly good, 88% harvested, last year 84%. Pecan condition poor to mostly fair, 39% harvested, last year 46%. Pastures mostly fair to good. Cattle fair to mostly good, hogs good. Wheat 62% planted, last year 61%. Rye 78% planted, last year 79%. Other small grains 74% planted, last year 76%.

**HAWAII:** Weather favorable. Moderate showers Hamakua Coast on Hawaii. Other areas dry. Temperatures cooler.

Vegetable supplies leafy crops light, others adequate. Banana supplies heavy. Papaya supplies moderate. Pineapple harvesting light. Sugar harvesting slowing, some mills closed. Pasture east Hawaii adequate. All other areas dry.

**IDAHO:** Temperatures averaged 3 to 9° above normal. Only precipitation 0.02 in.

Weather favorable completing harvest. Sugarbeet harvest near completion. All other harvest

activities virtually complete. Fall fieldwork mostly finished. Rain needed to help germination. Livestock condition very good. Pastures are drying. Livestock moving to market.

ILLINOIS: Temperatures 11 to 14° below normal. Precipitation extremely light.

Corn 91% harvested, 96% 1975, 83% average; storage space scarce many areas. Grain sorghum 90% harvested. 1977 corn and soybean acreage 50% plowed, 57% 1975, 46% average. Winter wheat seedings mostly fair to good. Pastures mostly fair, supplying 30% livestock roughage requirements, 45% 1975, 50% average. Soil moisture 77% short, 23% adequate. Fieldwork: 7.0 days suitable.

INDIANA: Severe cold. Temperatures 10° below normal, lowest 10° on 14th. Eighth week of below normal temperatures. Precipitation nil except trace in north. Last 4 weeks, precipitation below normal 0.50 to 1.20 in. north and central, 0.50 in. above normal in south.

Fieldwork: 7 days suitable. Top soil moisture short to mostly adequate. Subsoil moisture short to adequate. Corn 80% harvested; 1975 85%, average 65%. Soybeans 97% combined, 1975 97%, average 80%. Sorghum 85% combined, 1975 90%. Wheat seeding over. Wheat 80% emerged. Stands fair to good. Tobacco 20% stripped. Land for 1977 seeded crops 30% plowed, 1975 25%. Pastures lower, mostly poor to fair.

IOWA: Cold and dry. The 6th consecutive week with subnormal temperatures. Readings 10° subnormal west to 14° subnormal east. Light snow flurries.

KANSAS: Temperatures averaged from 35 to 38° and were 5 to 10° below normal. Little to no precipitation.

Wheat planting virtually complete, moisture needed to help development. Wheat pastured 5%, same last year and average. Corn harvest 90% complete, 95% last year, 75% average. Sorghum harvest 90% complete, 95% last year, 70% average. Soybean harvest 90% complete, 95% last year, 80% average. Sugarbeet harvest active some areas.

KENTUCKY: Temperature average below normal. Light rain over eastern half 10th. Snow spread across southern half State 11th. Rain mixed with snow over southeast 12th.

Fieldwork: About 5.5 days favorable. Weather favored corn and soybean harvest. Corn now 83% harvested, 84% year ago. Soybean combining 78% done compared 80% last year. About 48% beans being sold at harvest. Burley stripping slowed by cool weather and low humidity. Little leaf in case since 1st of month, crop now 34% stripped and ready for market opening Nov. 22. Winter grains and pasture growth slowed by cold nights and lack of topsoil moisture.

LOUISIANA: Temperatures 6 to 8° below normal. Extremes: 81 and 29°

Soil moisture short. Fieldwork: 5.2 days suitable. Cotton harvested 91%, 55% last year, 62% average. Soybean harvested 95%, 82% year ago, 77% average. Sweetpotato harvest virtually complete. Sugarcane harvested 39%, 43% year earlier, 37% average. Oats 92% planted, 91% last year. Wheat 89% planted, 83% year ago. Pastures and cattle fair.

MARYLAND & DELAWARE: Temperatures unseasonably cold, averaging 9° below normal. Extremes: low 50's and low 30's. Precipitation generally light. Weekend fair and cool.

Farmers hurrying to finish corn and soybean harvest which is generally behind normal. Many working late into night to finish. Some small grains seeding will follow harvest. Early seeded fields up and growing.

MICHIGAN: Temperatures ranged from 48° to -4°. Precipitation, below average ranged from trace in southeast Lower to 0.35 in. west central Lower.

Fieldwork: 5 days suitable. Grain corn almost 90% picked. Soybeans 97% combined. Pasture feed short. Fall plowing 40% completed. Cabbage nearly 95% cut.

MINNESOTA: Cold temperatures averaged 8 to 10° below normal, except 13° below normal southeast. Extremes: 58° southwest and 2° northeast. Precipitation 0.20 to 0.40 in. below normal with amounts ranging from trace to 0.10 in. northeast falling as snow.

Picking of few corn fields in southeast continued. Cold temperatures slowed fall tillage operations. Most farmers preparing for winter activities.

MISSISSIPPI: Temperatures 6 to 9° subnormal. Extremes: 23 and 78°.

Soil moisture short to adequate south, adequate elsewhere. Fieldwork: 4.6 days suitable. Cotton 84% harvested, 46% 1975, 70% average. Soybeans 82% harvested, 61% 1975, 64% average. Corn 92% harvested, 86% 1975, 85% average. Sorghums 96% harvested. Pecans 43% harvested, 47% 1975. Winter wheat 91% planted, 87% 1975, 80% average. Oats 93% planted, 88% 1975, 87% average. Pastures in fair to poor condition. Livestock in fair condition.

MISSOURI: Temperatures ranged from 7° below normal in Bootheel to 11° below normal in northeast prairie and east Ozarks. Precipitation as snow in south: accumulated from trace to 3 in.

Fieldwork: 5.7 days suitable. Soybeans 91% harvested, 93% 1975, 77% normal. Corn 93% harvested, 95% 1975, 73% normal. Grain sorghum 93% harvested 95% 1975, 77% normal. Cotton 75% harvested, 89% 1975, 74% normal. Winter wheat 91% seeded, 93% 1975. Fall plowing for spring planted crops 60% complete, 57% 1975. Condition of pastures 64% poor, 36% fair. Soil moisture short.

MONTANA: Cold and dry. Temperatures averaged near normal west to 8° below normal southeast. Coldest readings late week, falling to near or below zero.

Winter wheat condition fair main growing areas. Topsoils dry. Subsoil moisture also short. Wind damage to winter wheat mostly light. Stockwater supply adequate. About 10% cattle and 15% sheep receiving supplemental feed. Winter range condition good.

NEBRASKA: Temperatures 7 to 15° above normal 8th and 9th; 15 to 25° below normal remaining. No measurable precipitation.

Topsoil moisture 96% short, 4% adequate. Subsoil moisture supplies 97% short and 3% adequate. Corn for grain 95% harvested, 80% normal and 100% 1975. Sorghum harvest virtually complete, normal 90% and 100% 1975. Wheat condition 8% poor, 59% fair, 27% good, and 6% excellent. Moisture needed all areas. Cattle on stalk fields. Some farmers stacking crop residues. Cattle on short pastures receive supplemental feed.

NEVADA: Fair skies early, storms end of week. Precipitation generally light with snow down to

6000 foot level. Temperatures averaged above normal. Extremes: 80 to 5°.

Moderate temperatures easy on fall grains. Cotton harvest gaining momentum.

**NEW ENGLAND:** Temperatures 15° below normal early rising to 5° below normal by week's end. Precipitation light, 0.10 to 0.40 in. falling as 1 to 4 in. snow. Boston's 1 in. snow earliest in fall season since 1894.

**NEW JERSEY:** Record cold, 15° below normal, averaging 32° north, 35° south and 36° coastal areas. Extremes: 15 and 54°. Precipitation well below normal, averaging less than 0.10 in. Minor snowfall 8th, 9th, 11th and 12th, heaviest reported 1 in.

Harvest of cabbage and other hardy "greens" continues. Harvest of corn for grain and soybeans nearing completion. Sweetpotatoes, Irish potatoes and apples moving from storage. Cranberry harvest complete. Planting small grains and cover crops nearing completion.

**NEW MEXICO:** Extensive snow south half 12th and 13th. Accumulation 4 to 7 in. Partial clearing 13th allowed temperatures to drop to record lows.

Soil moisture short to adequate. Ranges good, several with poor winter feed. Livestock good. Harvest hampered by snow. Cotton 50% harvested, grain sorghum harvest 90% complete, corn harvest nearly complete. Irrigated winter wheat good, dryland fair. Onions good, lettuce harvest nearly complete. Very little pecan harvest activity.

**NEW YORK:** Cold, average temperatures 10° below normal. High temperatures ranged from upper 20's in lower sections to low 40's in Hudson Valley. Low temperatures in colder mountain areas 5 to 10°. Precipitation mostly below normal, except Mohawk Valley with 6 in. snow; western Lake Ontario with 18 in. snow.

**NORTH CAROLINA:** Temperatures averaged below normal. Precipitation light.

Fieldwork: 5.2 days suitable. Soil moisture 25% short, 75% adequate. Corn for grain 91% harvested, 1975 92%, average 85%. Soybeans 38% harvested, 1975 32%, average 39%. Cotton 55% picked, 1975 63%, average 65%. Sorghum grain 82% harvested, 1975 78%. Wheat 56% planted, 1975 72%, average 67%. Oats 67% planted, barley 59% planted, rye 65% planted. Pastures mostly fair to good, some over-grazing. Small grain stands fair to mostly good.

**NORTH DAKOTA:** Temperatures ranged 1 to 6° below normal, except southwest 1° above normal. Extremes: -2 to 59°. Precipitation ranged 0.15 in. to 0.19 in. below normal. Weekend sunny skies and warm days with cool nights. Trace of snow reported east.

Pasture and ranges poor.

**OHIO:** Temperatures record or near record lows. Precipitation below normal. Snow flurries in northeast. Fieldwork: 6 days favorable. Soybean harvest virtually complete. Corn 75% harvested, 75% normal, 85% year ago. High moisture, seasonal wait at mills, few gas shortages for drying, warm weather needed. Cold weather allowed sugarbeet lifting to advance rapidly, virtually complete, same as last year and average. Popcorn harvest behind schedule, 85% combined, completed last year and average. Tobacco 15% stripped, 20% last year. Winter wheat stands fair to good,

cold weather slowed germination. Pasture fair. Soil moisture adequate.

**OKLAHOMA:** Temperatures from 7 to 9° below normal. Precipitation ranged from a trace southwest to 0.69 in. east central. Weekend cold with light precipitation and snow 1 to 3 in. southern half.

Good harvest progress early halted by light moisture, snow, and cold weather. Soil moisture supplies adequate in only half State. Wheat seeding near complete, with a near average 95% up to stand, under 75% year ago. Condition good to fair. Corn harvest in windup stage, near equal year ago. Sorghum grains mostly fair with over 80% combined, near level year ago, ahead average 65%. Cotton stripping active early week, over 25% now picked, against 2% year ago, 13% average. Peanut digging windup stage most areas, compared 70% average. Soybean combining past halfway mark, behind 65% year ago. Ranges providing moderate amount feed, with supplemental feeding necessary many areas. Cattle in mostly good condition.

**OREGON:** Unseasonably warm temperatures averaged 3 to 8° above normal over west but mostly 4 to 9° above normal east of Cascades. Extremes: 32 and 70° west; 19 and 71° east. Nearly all rainfall confined to south coast.

Fall seeding activities nearly complete. Light rains and warm temperatures assisting growth. Some fields uneven growth and may need reseeding. Fruit harvest complete. Potatoes being dug. Pastures remain in generally good condition. Feed supplies adequate. Cattle in good flesh.

**PENNSYLVANIA:** Generally cold, windy and partly sunny weather. Temperatures 20 to 40° with extremes of 53 to 7°. Readings 9 to 13° below normal. Except for snow flurries several days, generally dry with precipitation from traces southeast to 0.50 in. lee of Lake Erie. Up to 10 in. new snow in part of northwest.

Limited field activities included corn harvest, sowing small grains, digging potatoes.

**PUERTO RICO:** Island rainfall 0.98 in. or 0.48 in. below normal. Temperatures about 79° on coasts and 74° interior.

Good weather cultivation and fertilization sugarcane fields. Coffee harvest continued but perspective poor as heavy rains caused beans to fall from trees. Pastures good condition. Cultivating and fertilizing main activities. Insect attacks reported some areas. Planting, fertilizing and cultivating food crops, especially bananas.

**SOUTH CAROLINA:** Temperatures 2 to 6° below normal. Extremes: 76 and 20°. Rainfall below normal.

Corn harvest nearly complete; cotton, soybean, sorghum harvests continue. Seeding of small grains, winter grazing continues. Preparing tobacco beds. Cotton 64% harvested, 78% 1975, 77% average. Soybeans 31% harvested, 32% 1975, 39% average. Sorghum 70% harvested, 76% 1975, 69% average. Oats 64% planted, 64% 1975, 56% average. Wheat 50% planted, 48% 1975, 41% average. Barley 74% planted. Rye 71% planted.

**SOUTH DAKOTA:** Light snow contributed only trace of moisture. Moisture continues critical. Precipitation departure since first of year varies from 6.50 to 13.50 in. in the east. The west ranges from 3.00 in. below to slightly more than 1.00 in. above normal. Temperatures well below normal. Extremes: 70 and -14°.

Feed shortage continues. Some cattle grazing cornstalks. Large movements of cattle to market or to other areas for feeding. Fall grains dormant and lack snowcover.

**TENNESSEE:** Sunny skies first, cloudiness and mixture of snow, sleet and rain followed midweek. As much as 4 in. snow in northwest. Temperatures 10° below normal ranging from 43 to 36°. Light but general precipitation averaged 0.20 in.

Corn, cotton and soybean harvest halted by snow and rain 11th and 12th. Moist weather, however, promoted tobacco stripping. Fieldwork: 4.3 days suitable. Soil moisture adequate. Corn 77% harvested, 77% last year and average. Cotton 60% harvested, 60% last year, 70% average. Soybeans 75% harvested, 60% last year and average. Burley tobacco 65% stripped, 65% last year, 70% average. Fall plowing 86% completed, 86% last year, 90% average. Wheat 80% seeded, 78% last year, 83% average. Oats and barley seeding nearly completed about a week behind average.

**TEXAS:** Fair, mild replaced by cold, snow, rain. Major storm dumped 3 to 10 in. snow on west, north Texas during weekend. Temperatures 6 to 7° below normal north, northwest; 10° below normal central. Temperatures normally in upper 40's northwest, mid-50's southwest, north, east, low 60's south. Precipitation generally under 1.00 in. Normal rainfall less than 0.25 in. west, east, south.

Harvesting progressed rapidly, but halted by snow, rain over weekend. Cotton harvest active on plains with 32% complete Statewide, 36% 1975, 31% average. Quality generally good. Stripping to continue when snow melts, fields dry. On Low Plains, hard freeze completed defoliation. Corn harvesting 99%, ahead of 95% average, 100% 1975. Sorghum combining active on plains, north Texas. Harvest 97%, 98% 1975, 88% average. Peanut harvest progressed north, central where field conditions permitted. Harvest 86% complete, 97% 1975, 91% average. Soybean combining advanced 22 points to 81%, 93% 1975, 63% average. Sugarbeets generally good. Cold, dry would increase sugar content. Harvesting 61%, well behind average 73%. Sunflower harvest advanced rapidly. Frost damaged late fields. Wheat seeding 89% complete, behind 1975 and average rate of 97%. Early stands growing well, cool weather hampered crop development. Grazing begun on limited scale in north half. Citrus harvest was light. Vegetable progress good. Harvests of cucumbers, eggplant, cabbage, bell peppers active. Pecan harvest gaining momentum.

Ranges good although dryland wheat on plains provided only limited grazing. Snow should improve moisture situation on northern High Plains. Cattle good. Supplemental feeding began on plains, north, continues east.

**UTAH:** Weak storm weekend accompanied by light to locally moderate winds. Average temperatures range from near normal to 10° above.

Grading, sorting, and marketing potatoes, dry onions and apples continue. Considerable fall plowing accomplished. Most farm machinery in the shed or ready for winter. Breeding range ewes will continue into December. Marketing cattle and lambs still in progress.

**VIRGINIA:** Temperatures averaged 8° below normal. Extremes: 70 and 14°. Light precipitation toward end of period averaging less than 0.50 in.

Topsoil moisture adequate. Fall harvest and small grain seeding made good progress. Corn for grain 74% harvested, 84% 1975, 79% average. Soybean harvest 28% complete, 54% 1975, 49% average. Winter wheat seedings 66% complete, 82% 1975, 73% average. Grain sorghum harvest 49% complete. Pastures good condition. Cotton harvest progressed. Flue-cured tobacco marketing tapering off. Peanut harvest virtually complete.

**WASHINGTON:** West: Temperatures above average. Precipitation below normal. Clear, sunny weather prevailed with late night and early morning fog.

Range and pasture feed adequate. Potato harvest complete, some blight showing. East: Temperatures above normal: Precipitation below normal all areas.

Orchardists busy fall cleanup. Harvest winding up sugarbeets, grain, corn and potatoes. Cattle grazing stubble, crop residues, and lower pastures. Some supplemental feeding. Fall calving continues. Moisture needed for emergence of winter wheat seeded on recrop soil. Winter wheat planted summer fallow emerged spotty some areas. Fall seeded grains still growing. Greenbugs require spraying.

**WEST VIRGINIA:** Temperatures well below normal. Precipitation near normal north central and central and below normal elsewhere. Snowfall 5 of last 7 days, 2 in. on ground at higher elevations.

Fieldwork: 4.5 days suitable. Little corn picking and caring for livestock main activities. Soil moisture 75% adequate, 25% surplus. Cold temperature and high winds causing some damage to fall sown small grains.

**WISCONSIN:** Temperatures continued unseasonably cold. Highs in 20's and 30's except 9th when 40's south and central. Lows near zero north to teens south. Precipitation remained below normal. Light snow and flurries north, light rain south. Some areas extreme north and 1 to 3 in. snow 9th. Weekend sunny and cold.

Crop harvest completed except little corn in south. Too dry for much fall plowing.

**WYOMING:** Temperatures above normal with exception of eastern edge. Precipitation below normal.

Moisture needed for winter wheat; some not emerged yet. Major activities: Fall tillage, livestock shipping, corn picking. Ranges dry but still in good condition.

CURRENT CROP PROSPECTS GENERALLY PROMISING

November 1 prospects for the Nation's feed grains, sugar crops, and tobacco brightened compared with the month-earlier outlook, based on the latest crop summary by USDA's Crop Reporting Board. Only cotton registered a decline.

A record 6,063 million bushels forecast for U.S. corn would spell a 3% gain from October 1 and a 5% increase from 1975. As farmers moved towards end of harvest, average yield, forecast at 85.5 bushels per acre surpassed last month's figure by 2.8 bushels. Amid generally favorable October weather, harvest trailed last year's accelerated pace by just 2 points and outdistanced the average by more than 20 points.

Prospects for the Nation's output of sorghum grain call for 731 million bushels, 2% above a month ago but 4% below the 1975 crop. Credit for most of the increase goes to Nebraska, Kansas, and Missouri. An unseasonable late October snow-fall slowed harvest on the Texas High and Low Plains.

Looking at soybean production, the Board forecasts 1,252 million bushels, up only slightly from a month ago but down 18% from last year's crop. Projected yield of 25.3 bushels per acre compares with 28.4 bushels in 1975 and 23.2 bushels 2 years ago. Rains delayed harvest in several Southern States and in certain areas some late season beans suffered frost and freeze damage.

The November 1 tally pinned production of all

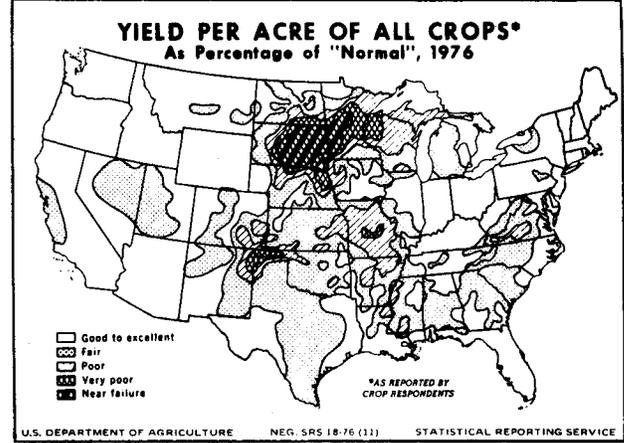
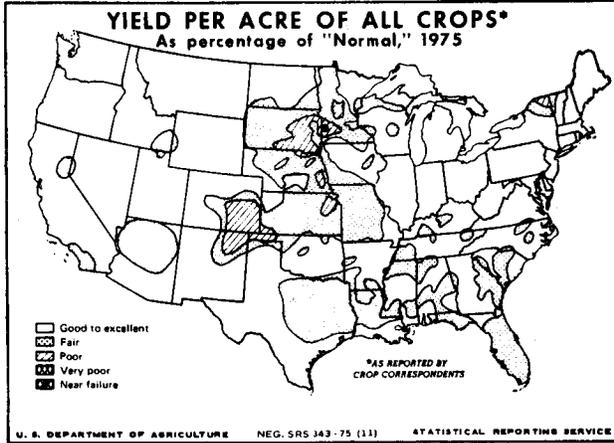
cotton at 9.9 million bales, a full 19% above 1975 but 4% behind the previous month's forecast. Harvest in a number of major producing areas got off to an early start when seasonably low temperatures reduced production prospects.

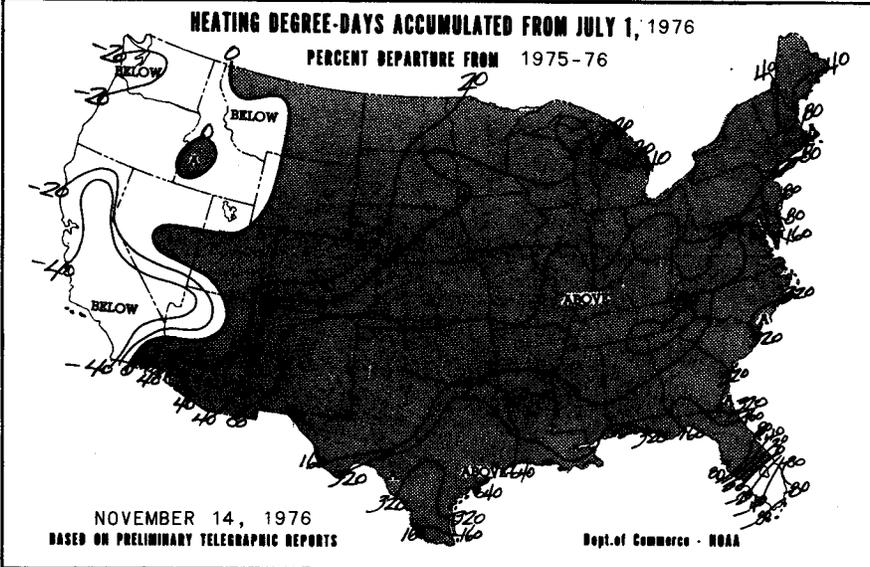
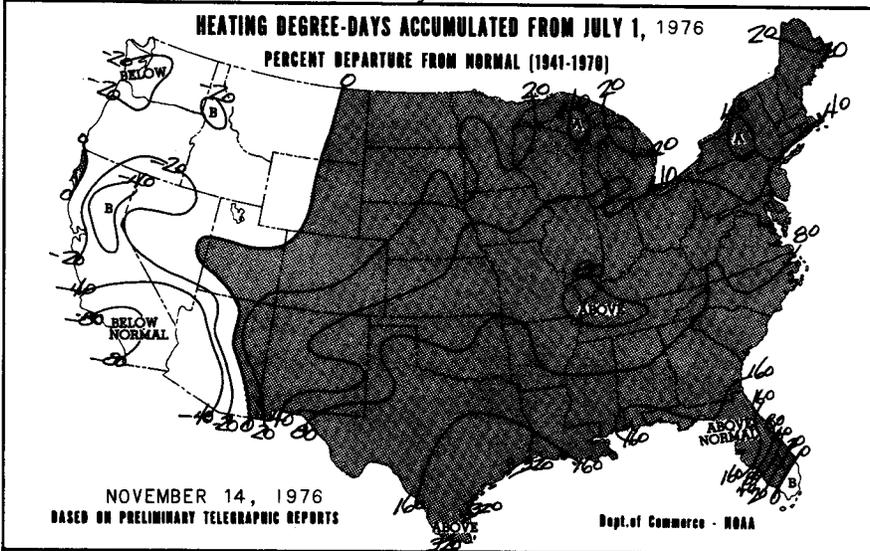
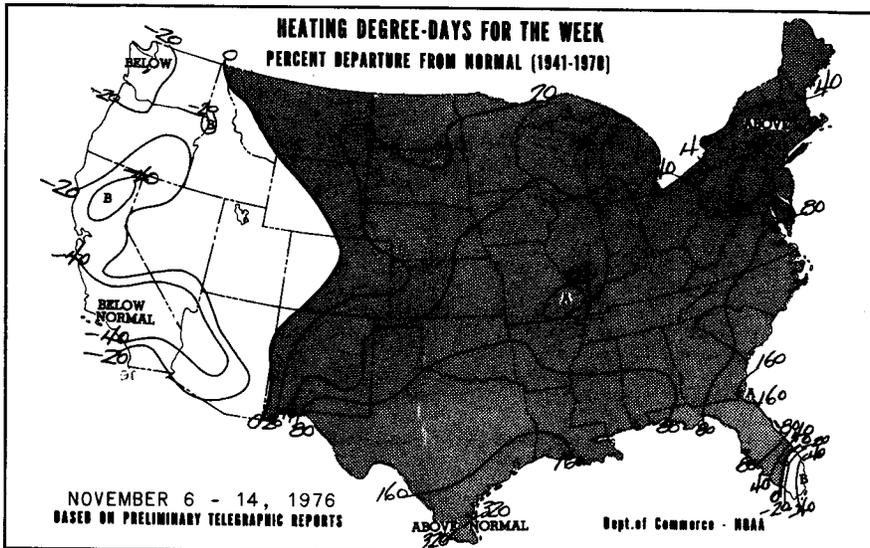
Forecast at 3,688 million pounds (net weight), peanut production moved ahead slightly from the October 1 tally, but slipped 4% below 1975's record crop of 3,857 million pounds. Peanut growers are expected to harvest slightly more acreage this year, an estimated 1.5 million acres. Peanuts, combined with soybeans, cottonseed, and flaxseed, figure into U. S. oilseed production, forecast at 39 million metric tons, 15% below last year.

In the latest summary, the Board noted that U. S. tobacco forecast at 2,071 million pounds, notched a 1% gain from the October 1 report but fell 5% short of the 1975 crop. Compared with a year ago, flue-cured was off by 8% and burley, by 1%.

The October 1-November 1 period brought slight increases for U. S. sugar crops. Compared with the 1975 crop, sugarbeet production of 29.1 million short tons fell behind 2% while sugarcane, expected to hit 28.7 million short tons, picked up 1%.

U. S. oranges should fare well in 1976-77. The Board looks for a record production of 271.4 million boxes, which measures slightly below last month but tops last season by 12%.





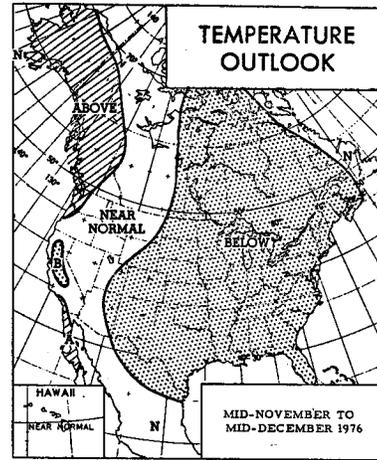
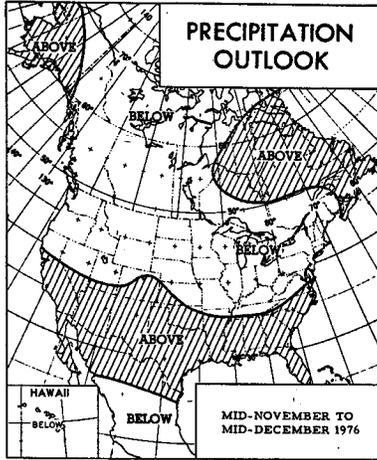
HEATING DEGREE DAYS (BASE 65°) FOR WEEK ENDING NOV. 14, 1976.

STATES AND STATIONS	WEEKLY		SEASONAL ACCUMULATION +		STATES AND STATIONS	WEEKLY		SEASONAL ACCUMULATION +		STATES AND STATIONS	WEEKLY		SEASONAL ACCUMULATION +	
	TOTAL	DEPARTURE*	TOTAL	DEPARTURE FROM 1975-76		TOTAL	DEPARTURE*	TOTAL	DEPARTURE FROM 1975-76		TOTAL	DEPARTURE*	TOTAL	DEPARTURE FROM 1975-76
ALA. BIRMINGHAM.....	142	150	222	222	MAINE CARIBOU.....	677	505	1800	1800	OKLA. OKLAHOMA CITY.....	158	66	559	245
MOBILE.....	142	150	222	222	PORTLAND.....	677	505	1800	1800	TULSA.....	158	66	559	245
MONTGOMERY.....	142	150	222	222	MD. BALTIMORE.....	188	66	753	238	OREG. ASTORIA.....	93	93	804	256
ARIZ. FLAGSTAFF.....	165	174	1153	174	MASS. BOSTON.....	201	74	812	176	BURNS.....	107	107	1074	100
PHOENIX.....	165	174	1153	174	MICH. ALPENA.....	406	406	406	406	DETROIT.....	107	107	1074	100
TUCSON.....	165	174	1153	174	ANN ARBOR.....	406	406	406	406	INDIANAPOLIS.....	107	107	1074	100
WINSTON-SALEM.....	165	174	1153	174	FLA. MIAMI.....	406	406	406	406	INDIANAPOLIS.....	107	107	1074	100
YUMA.....	165	174	1153	174	ORLANDO.....	406	406	406	406	INDIANAPOLIS.....	107	107	1074	100
ARK. FORT SMITH.....	171	171	544	331	MIAN. DES MOINES.....	406	406	406	406	INDIANAPOLIS.....	107	107	1074	100
LITTLE ROCK.....	171	171	544	331	INDIANAPOLIS.....	406	406	406	406	INDIANAPOLIS.....	107	107	1074	100
CALIF. BAKERSFIELD.....	225	119	130	119	MINN. DULUTH.....	401	57	1866	99	PA. ALLENTOWN.....	108	108	967	240
EUREKA.....	225	119	130	119	INTERNATIONAL FALLS.....	401	57	1866	99	PHILADELPHIA.....	108	108	967	240
FRESNO.....	225	119	130	119	MINN. MINNEAPOLIS.....	401	57	1866	99	PITTSBURGH.....	108	108	967	240
LOS ANGELES.....	225	119	130	119	ROCHESTER.....	401	57	1866	99	SCRANTON.....	108	108	967	240
RED BLUFF.....	225	119	130	119	ST. CLOUD.....	401	57	1866	99	R.I. PROVIDENCE.....	222	82	1061	328
SAN DIEGO.....	225	119	130	119	MISS. JACKSON.....	123	66	437	223	S.C. CHARLESTON.....	97	97	55	153
SAN FRANCISCO.....	225	119	130	119	MERIDIAN.....	123	66	437	223	COLUMBIA.....	97	97	55	153
STOCKTON.....	225	119	130	119	MO. COLUMBIA.....	123	66	437	223	GREENVILLE.....	97	97	55	153
COLO. DENVER.....	180	92	962	92	ST. LOUIS.....	123	66	437	223	S.DAK. ABERDEEN.....	76	76	1344	122
GRAND JUNCTION.....	180	92	962	92	SPRINGFIELD.....	123	66	437	223	HURON.....	76	76	1344	122
PUEBLO.....	180	92	962	92	MONT. BILLINGS.....	123	66	437	223	RAPID CITY.....	76	76	1344	122
CONN. BRIDGEPORT.....	182	60	758	217	GLASSBORO.....	123	66	437	223	ST. LOUIS.....	76	76	1344	122
HARTFORD.....	182	60	758	217	GREENSBORO.....	123	66	437	223	ST. LOUIS.....	76	76	1344	122
DEL. WILMINGTON.....	188	63	753	223	MEMPHIS.....	123	66	437	223	ST. LOUIS.....	76	76	1344	122
D.C. WASHINGTON.....	174	66	628	215	NASHVILLE.....	123	66	437	223	TEXAS. ARLING.....	521	239	239	279
FLA. PALM BEACH.....	57	21	281	201	OKLA. OKLAHOMA CITY.....	158	66	559	245	AMARILLO.....	521	239	239	279
DAYTONA BEACH.....	57	21	281	201	PORTLAND.....	158	66	559	245	AUSTIN.....	521	239	239	279
FORT MYERS.....	57	21	281	201	SPRINGFIELD.....	158	66	559	245	BEAUMONT.....	521	239	239	279
JACKSONVILLE.....	57	21	281	201	TOLEDO.....	158	66	559	245	BIRMINGHAM.....	521	239	239	279
KEY WEST.....	57	21	281	201	WASH. SEATTLE.....	158	66	559	245	BIRMINGHAM.....	521	239	239	279
MIAMI.....	57	21	281	201	INDIANAPOLIS.....	158	66	559	245	BIRMINGHAM.....	521	239	239	279
LAKELAND.....	57	21	281	201	INDIANAPOLIS.....	158	66	559	245	BIRMINGHAM.....	521	239	239	279
ORLANDO.....	57	21	281	201	INDIANAPOLIS.....	158	66	559	245	BIRMINGHAM.....	521	239	239	279
TALLAHASSEE.....	57	21	281	201	INDIANAPOLIS.....	158	66	559	245	BIRMINGHAM.....	521	239	239	279
TORONTO.....	57	21	281	201	INDIANAPOLIS.....	158	66	559	245	BIRMINGHAM.....	521	239	239	279
WEST PALM BEACH.....	57	21	281	201	INDIANAPOLIS.....	158	66	559	245	BIRMINGHAM.....	521	239	239	279
GA. ATLANTA.....	50	27	50	27	INDIANAPOLIS.....	158	66	559	245	BIRMINGHAM.....	521	239	239	279
AUGUSTA.....	50	27	50	27	INDIANAPOLIS.....	158	66	559	245	BIRMINGHAM.....	521	239	239	279
MACON.....	50	27	50	27	INDIANAPOLIS.....	158	66	559	245	BIRMINGHAM.....	521	239	239	279
SAVANNAH.....	50	27	50	27	INDIANAPOLIS.....	158	66	559	245	BIRMINGHAM.....	521	239	239	279
IDAHO. BOISE.....	144	144	144	144	INDIANAPOLIS.....	158	66	559	245	BIRMINGHAM.....	521	239	239	279
LEWISTON.....	144	144	144	144	INDIANAPOLIS.....	158	66	559	245	BIRMINGHAM.....	521	239	239	279
POCATELLO.....	144	144	144	144	INDIANAPOLIS.....	158	66	559	245	BIRMINGHAM.....	521	239	239	279
ILL. CHICAGO.....	92	73	1114	73	INDIANAPOLIS.....	158	66	559	245	BIRMINGHAM.....	521	239	239	279
HOLINE.....	92	73	1114	73	INDIANAPOLIS.....	158	66	559	245	BIRMINGHAM.....	521	239	239	279
PEORIA.....	92	73	1114	73	INDIANAPOLIS.....	158	66	559	245	BIRMINGHAM.....	521	239	239	279
ROCKFORD.....	92	73	1114	73	INDIANAPOLIS.....	158	66	559	245	BIRMINGHAM.....	521	239	239	279
SPRINGFIELD.....	92	73	1114	73	INDIANAPOLIS.....	158	66	559	245	BIRMINGHAM.....	521	239	239	279
IND. EVANSVILLE.....	74	74	74	74	INDIANAPOLIS.....	158	66	559	245	BIRMINGHAM.....	521	239	239	279
FORT WAYNE.....	74	74	74	74	INDIANAPOLIS.....	158	66	559	245	BIRMINGHAM.....	521	239	239	279
INDIANAPOLIS.....	74	74	74	74	INDIANAPOLIS.....	158	66	559	245	BIRMINGHAM.....	521	239	239	279
SOUTH BEND.....	74	74	74	74	INDIANAPOLIS.....	158	66	559	245	BIRMINGHAM.....	521	239	239	279
IOWA. BURLINGTON.....	32	32	1114	32	INDIANAPOLIS.....	158	66	559	245	BIRMINGHAM.....	521	239	239	279
BES HAINES.....	32	32	1114	32	INDIANAPOLIS.....	158	66	559	245	BIRMINGHAM.....	521	239	239	279
DUBUQUE.....	32	32	1114	32	INDIANAPOLIS.....	158	66	559	245	BIRMINGHAM.....	521	239	239	279
SIoux CITY.....	32	32	1114	32	INDIANAPOLIS.....	158	66	559	245	BIRMINGHAM.....	521	239	239	279
KANS. CONCORDIA.....	63	63	63	63	INDIANAPOLIS.....	158	66	559	245	BIRMINGHAM.....	521	239	239	279
RODGE CITY.....	63	63	63	63	INDIANAPOLIS.....	158	66	559	245	BIRMINGHAM.....	521	239	239	279
GOOBLAND.....	63	63	63	63	INDIANAPOLIS.....	158	66	559	245	BIRMINGHAM.....	521	239	239	279
TOPEKA.....	63	63	63	63	INDIANAPOLIS.....	158	66	559	245	BIRMINGHAM.....	521	239	239	279
NICHITA.....	63	63	63	63	INDIANAPOLIS.....	158	66	559	245	BIRMINGHAM.....	521	239	239	279
KY. LEXINGTON.....	87	87	87	87	INDIANAPOLIS.....	158	66	559	245	BIRMINGHAM.....	521	239	239	279
LOUISVILLE.....	87	87	87	87	INDIANAPOLIS.....	158	66	559	245	BIRMINGHAM.....	521	239	239	279
LA. BATON ROUGE.....	91	47	304	168	INDIANAPOLIS.....	158	66	559	245	BIRMINGHAM.....	521	239	239	279
LAKE CHARLES.....	91	47	304	168	INDIANAPOLIS.....	158	66	559	245	BIRMINGHAM.....	521	239	239	279
NEW ORLEANS.....	91	47	304	168	INDIANAPOLIS.....	158	66	559	245	BIRMINGHAM.....	521	239	239	279
SHREVEPORT.....	91	47	304	168	INDIANAPOLIS.....	158	66	559	245	BIRMINGHAM.....	521	239	239	279

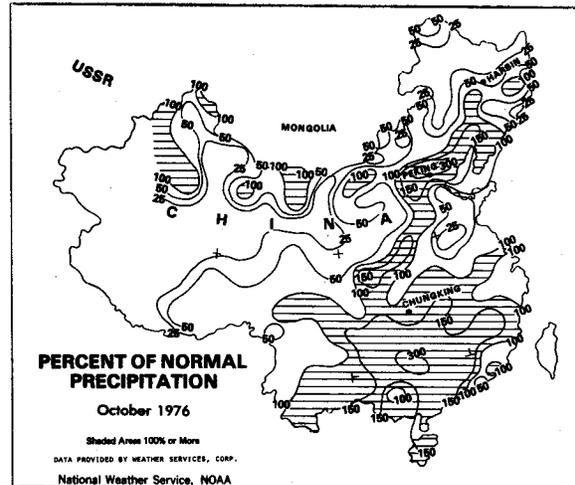
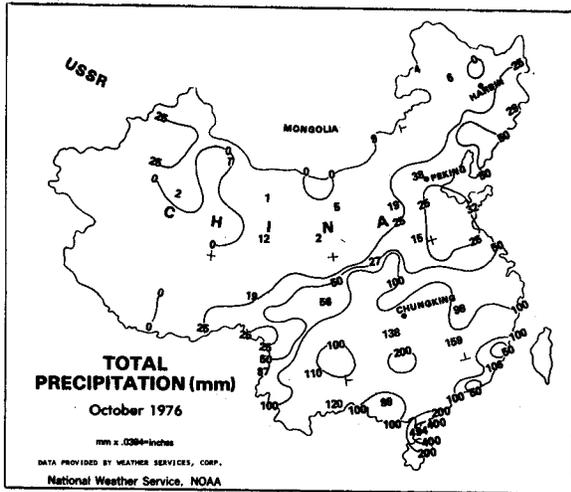
\* BASED ON 1941-70 NORMALS.

+ ACCUMULATION FROM JULY 1, 1976.

Average Monthly Weather Outlook



China Precipitation



## World Agricultural Weather Summary

**HIGHLIGHTS.** A return to "normal" weather in the fall improved Europe's agricultural situation. Drier weather in most regions helped Soviet farmers harvest a bumper production and sow record fall acreage. Spring rains sustained excellent crop prospects in Argentina and improved the outlook in Australia. Drought stressed crops in equatorial South America. Mostly fair weather favored orderly harvests in North America. Africa's Sahel received bonus fall rains.

**EUROPE.** October ran wet in the west, relatively dry in the east. Temperatures averaged mostly near normal although the Nordic countries, especially Finland, were quite cold. Iberia cooled to several degrees below normal. Drought generally continued to abate but remained severe in East Germany where April-October precipitation reached only about 50 percent of normal. Early November rains eased the situation somewhat. Rains in the west were frequent, often exceeding 20 days in October. Amounts approached or surpassed 200 percent of normal in parts of the British Isles and Italy. Heavy November rains on top of saturated soils caused some flooding in Italy.

Forage, fall-sown grains, and some late-maturing crops benefited from the wet weather. Lush growth of pastures reduced the drain on winter feed reserves. Wetter regions experienced harvesting, planting, and tilling delays. Overall agricultural conditions improved considerably in early fall following a difficult growing season for many European producers.

**USSR.** Frequency and quantity of precipitation diminished in October and early November in most of the European sector. Moldavia and the North-east Caucasus, however, remained relatively wet. Farmers completed harvesting, planting, and tilling except in the mild Transcaucas region. Freezing temperatures in mid-October ended the growing season before some late maturing crops, such as corn and sunflowers, matured fully. October averaged 2 to 6° C (4 to 11° F) below normal and crop growth and development slowed appreciably. The cold damaged unprotected tender crops like potatoes. Winter grain tended to be adequately developed for resistance to winter cold. The cold induced dormancy in grains in northern and eastern oblasts of the Russian Federation.

Wintry weather gripped Siberia and Kazakhstan but an extensive early snow cover protected vegetation from unseasonably low temperatures. October temperatures averaged 5 to 8° C (9 to 15° F) below normal. Temperatures moderated west of the Volga in early November; to the east cold held on.

**AMERICA.** A wet October and early November rains raised optimism in Argentina. Winter wheat prospered at its critical jointing and heading stages, forage thrived for livestock, and spring-sown crops responded to favorable soil moisture. No

major freeze damage occurred.

Similar conditions prevailed in Uruguay and Brazil's Rio Grand do Sul Province. Much of Brazil's central-south region received substantial rain. Spotty rain fell in northeast Brazil which was still stressed by months of dry weather. Other regions in the equatorial zone suffered from moisture shortages. Peru, Ecuador, and Colombia have areas of drought that are delaying plantings and damaging crops.

Hurricanes ravaged parts of Mexico, particularly Pacific coastal areas and the northwestern interior. Elsewhere, October precipitation tended to be well below normal. Flooding damaged summer crops, especially soybeans, but much improved soil moisture and storage water lifted prospects for winter crops.

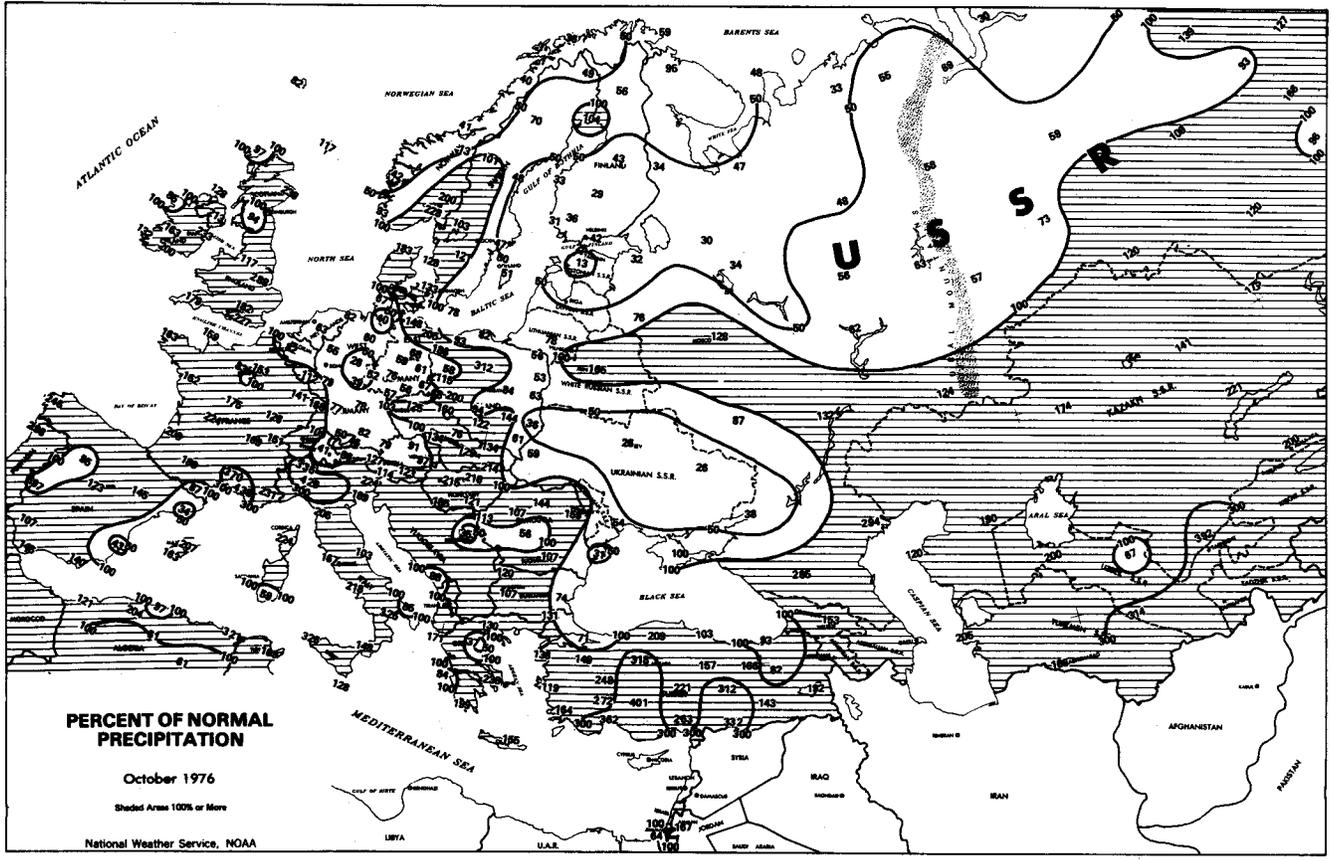
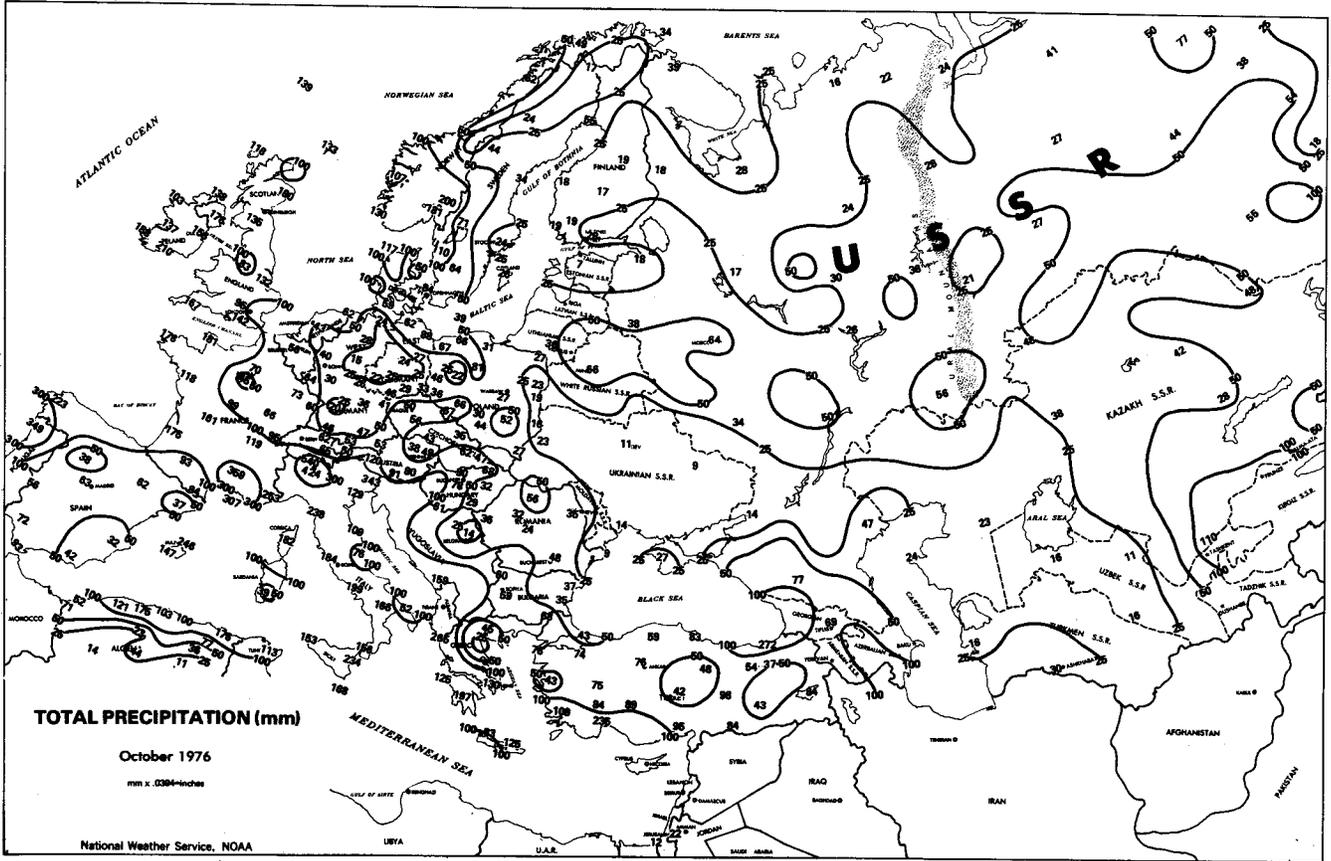
A dry fall allowed Canadian Prairie farmers to complete an orderly harvest although dry soil surfaces slowed fall tillage and limited forage growth.

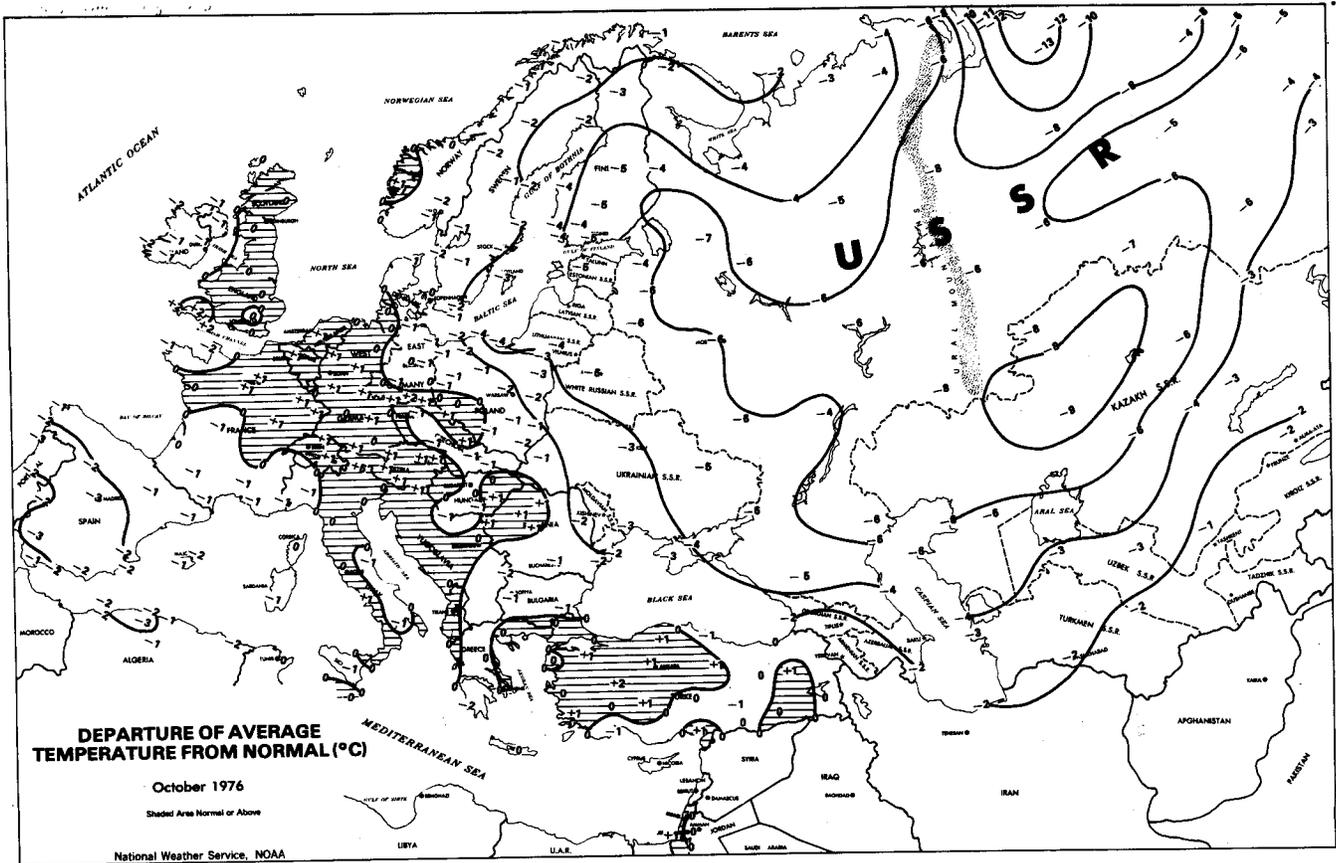
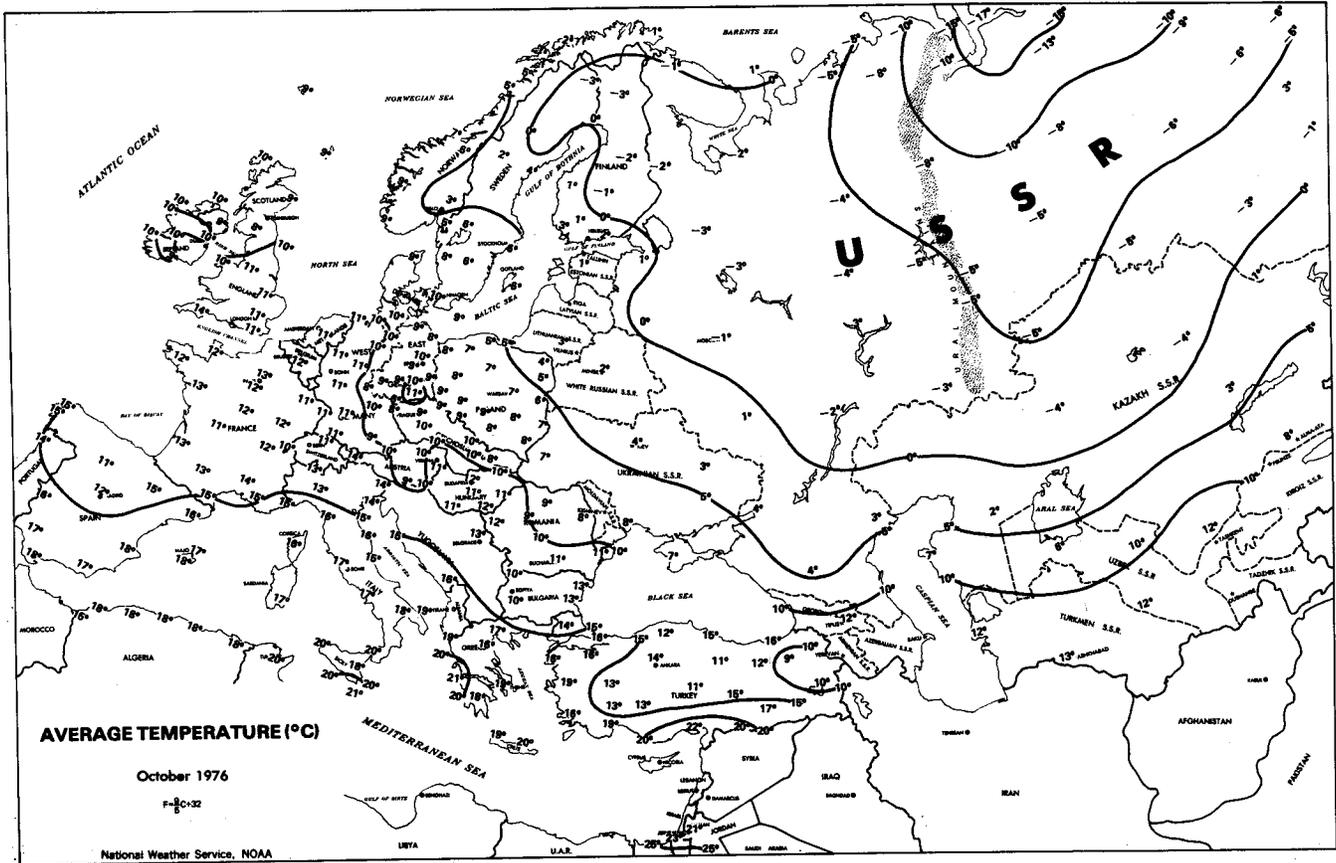
**AFRICA.** Major agricultural regions of the south, west, and north benefited from unusually heavy October rainfall. In the south, timely rains assured a good start for tender crops. In West Africa, rains extended a previously erratic rainy season, encouraged added production, and prolonged forage growth. Rains favored start of winter wheat and vegetative growth for livestock in Morocco, Algeria, and Tunisia.

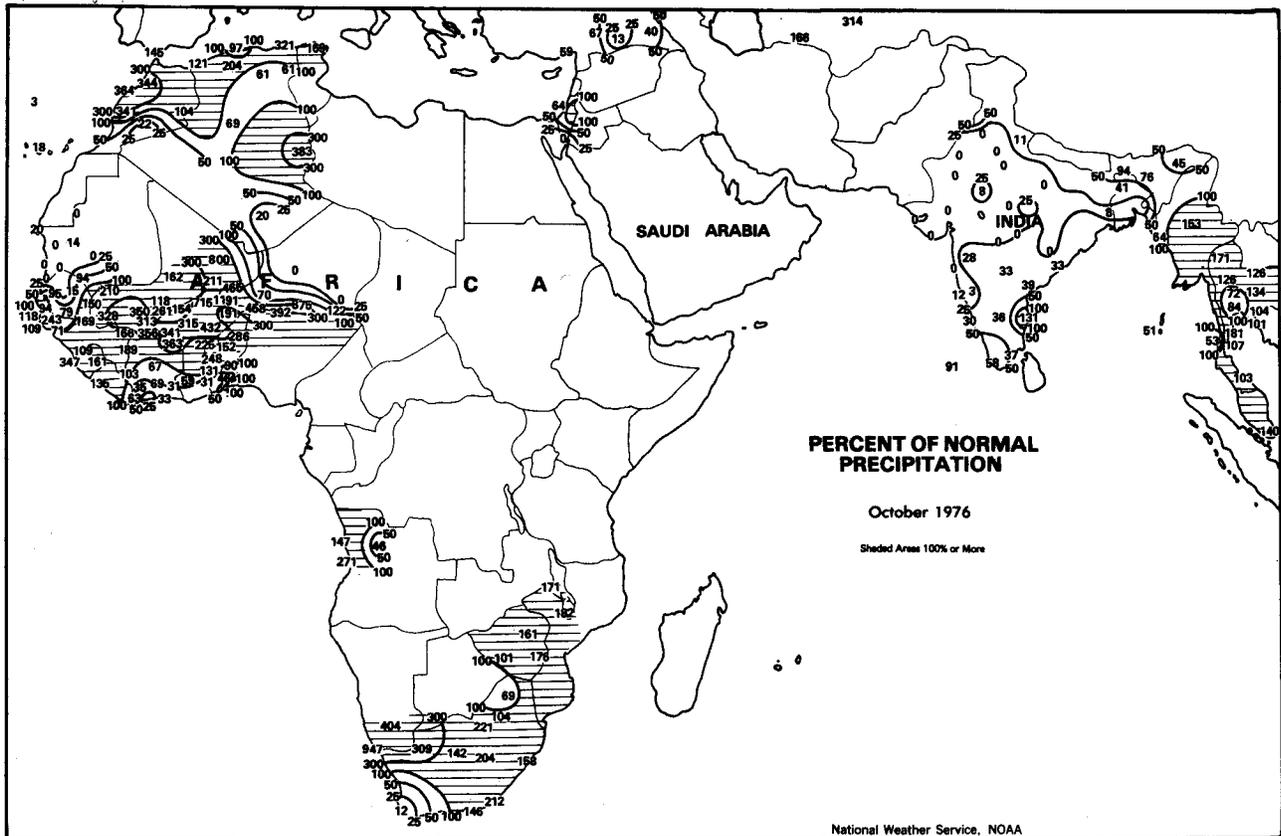
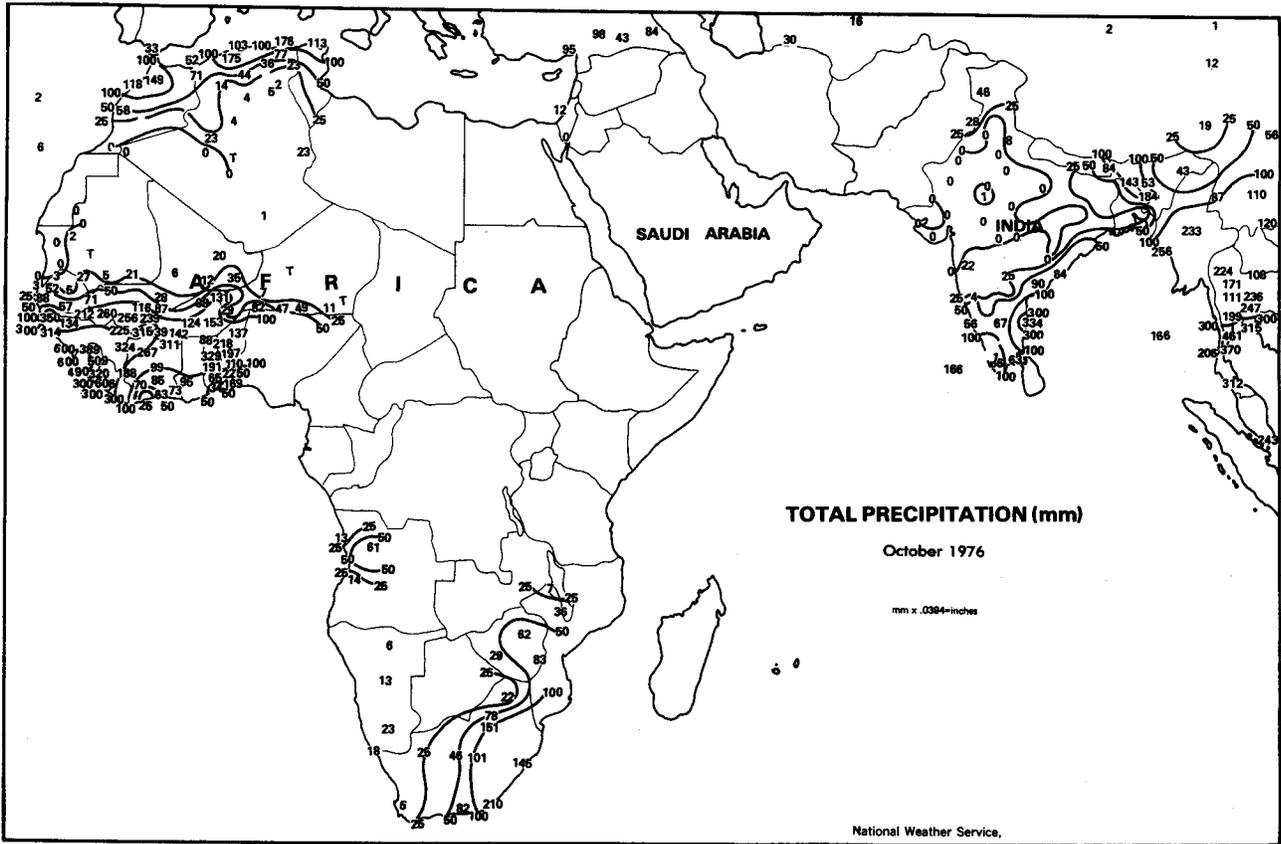
**ASIA.** In the Peoples Republic of China October temperatures ranged near the normal while precipitation tended to be above normal. Shansi, Liaoning, and Hopeh Provinces in the north received more than usual precipitation as did most provinces in the south. Widespread rains in the south reduced irrigation requirements in many areas previously stressed by a rather dry summer. Soil moisture remained short in much of Heilungkiang, Kirin, Ningsia-Hui, Kansu, and Kiangsu Provinces. Favorable conditions prevailed in the major winter wheat provinces.

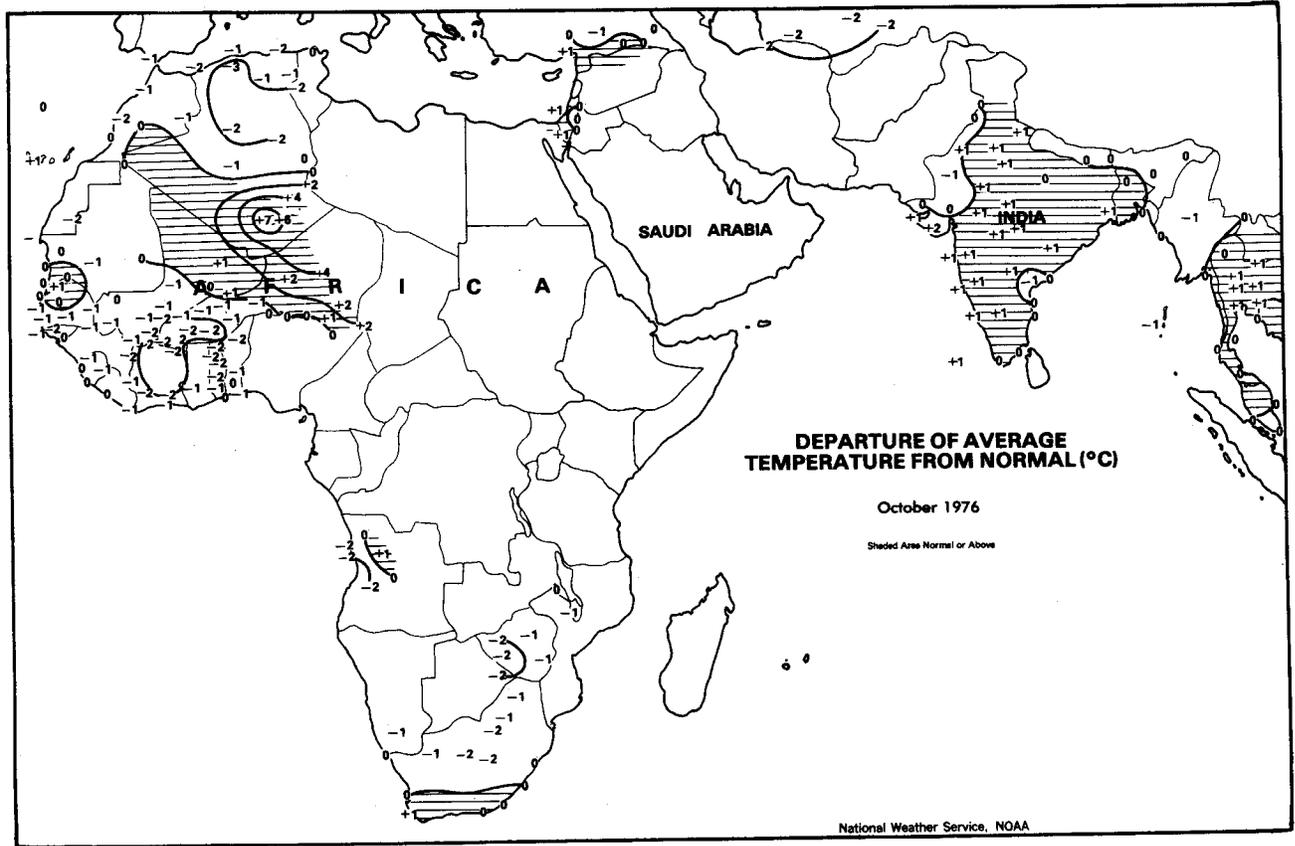
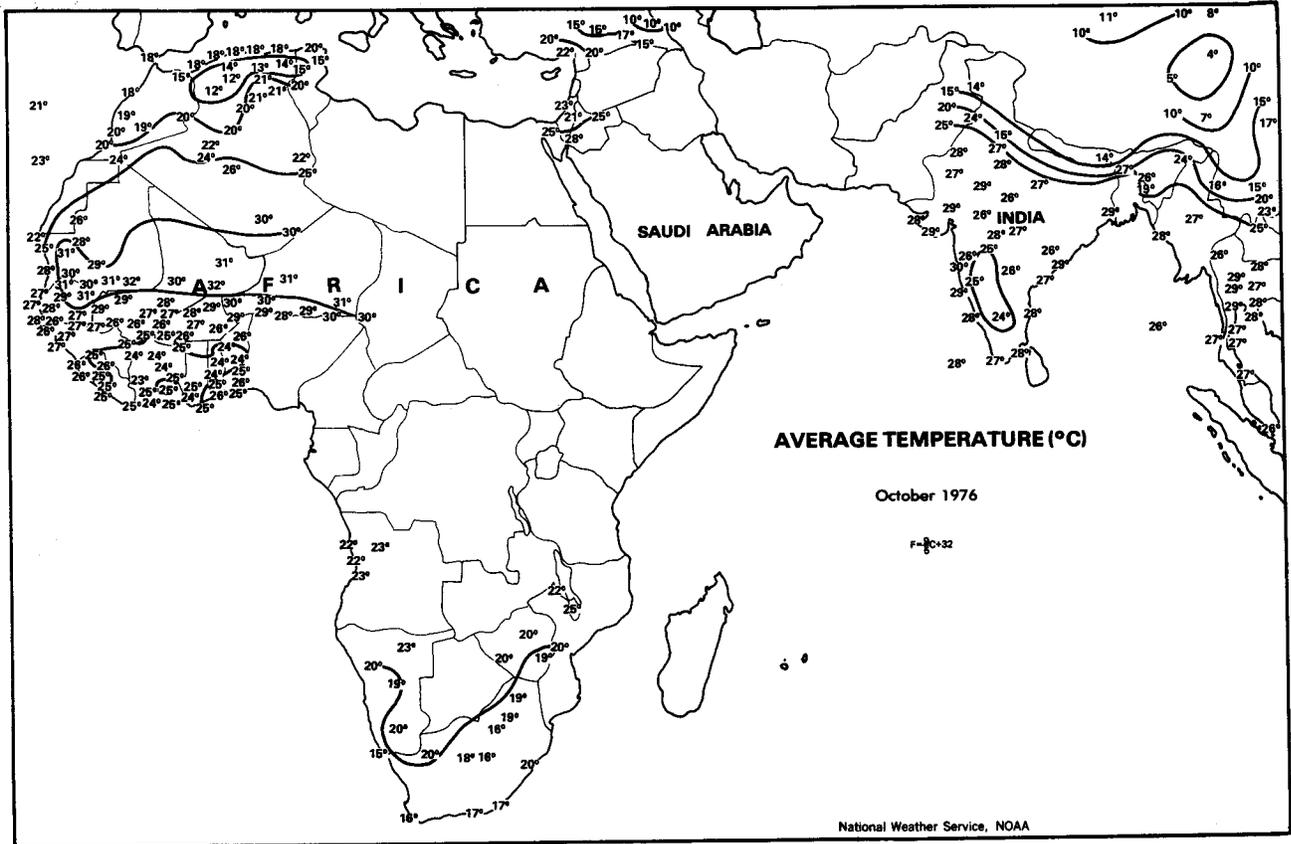
India soaked up sun rather than rain in October. With isolated exceptions, as Madras in the southeast and Srinagar in the north, rain measured much below normal. Many stations received no rain at all. Normally wet Andhra Pradesh managed only about one-third of its usual October precipitation. Rain would enhance emergence of winter wheat as planting commences. Thailand received adequate rainfall for rice transplanting which is now nearing completion.

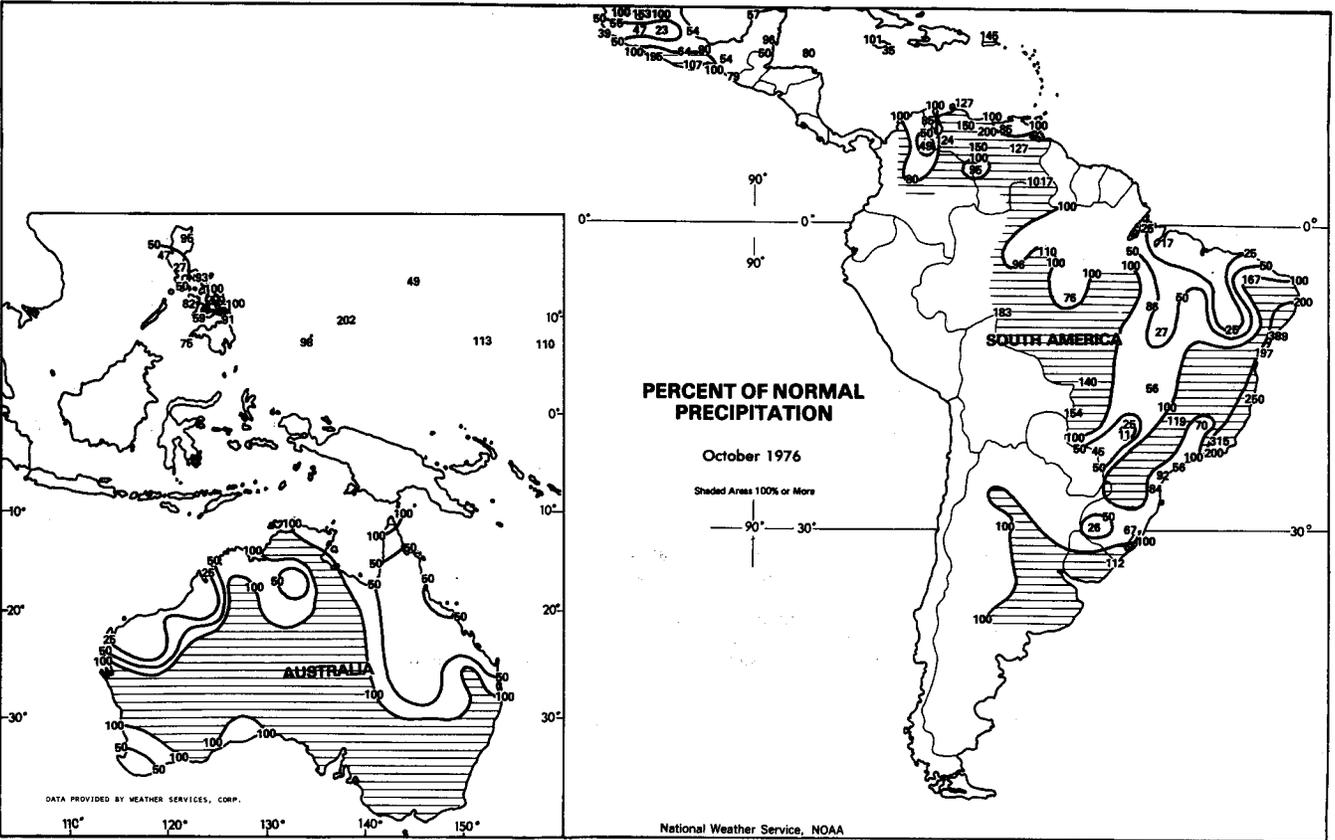
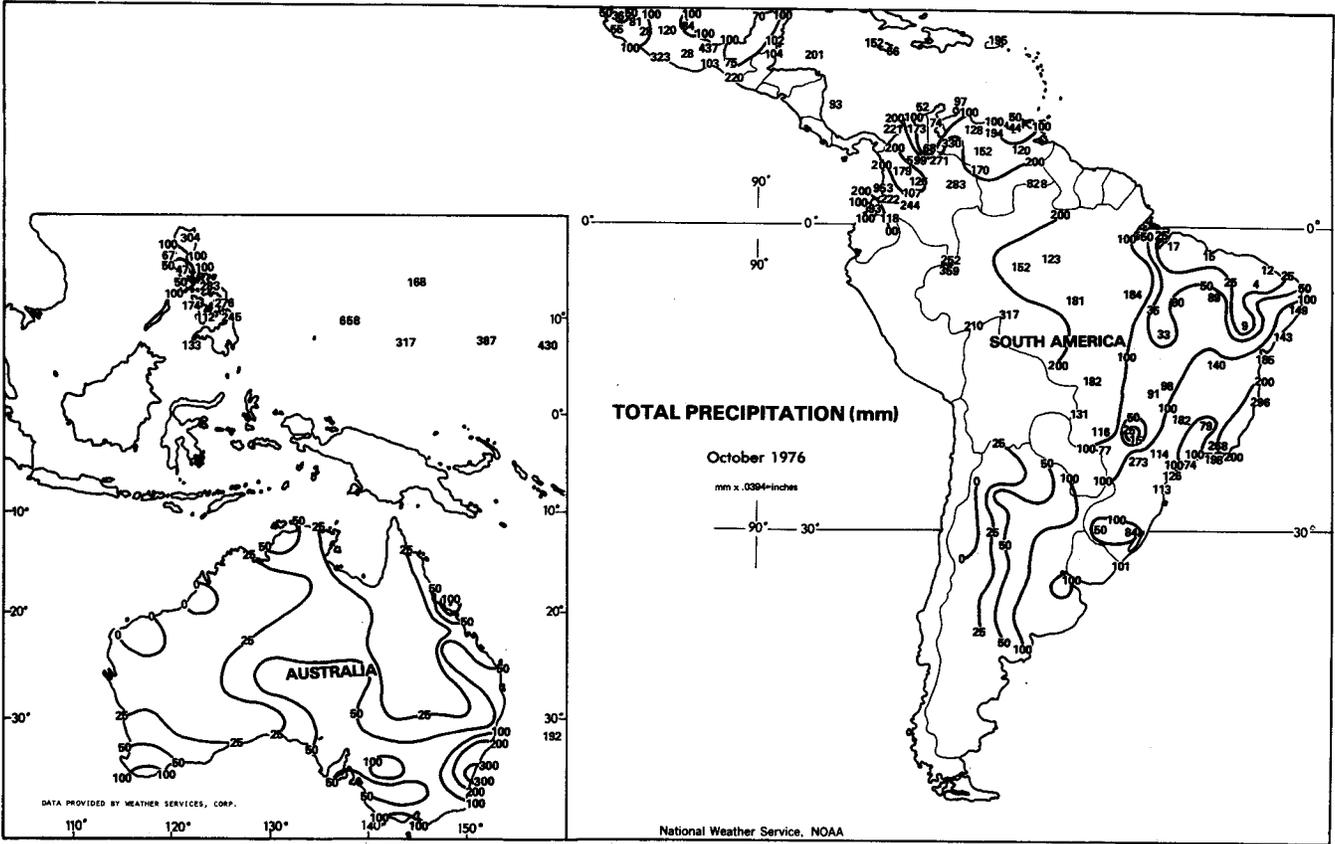
Agriculture continued to profit from increased precipitation in Australia. After many months of intense drought generous September-October rainfall helped to green up forage and provided moisture to establish summer crops. Rains saved struggling winter wheat during its critical stages of jointing and heading. Renewed vegetative growth eased stress on livestock.

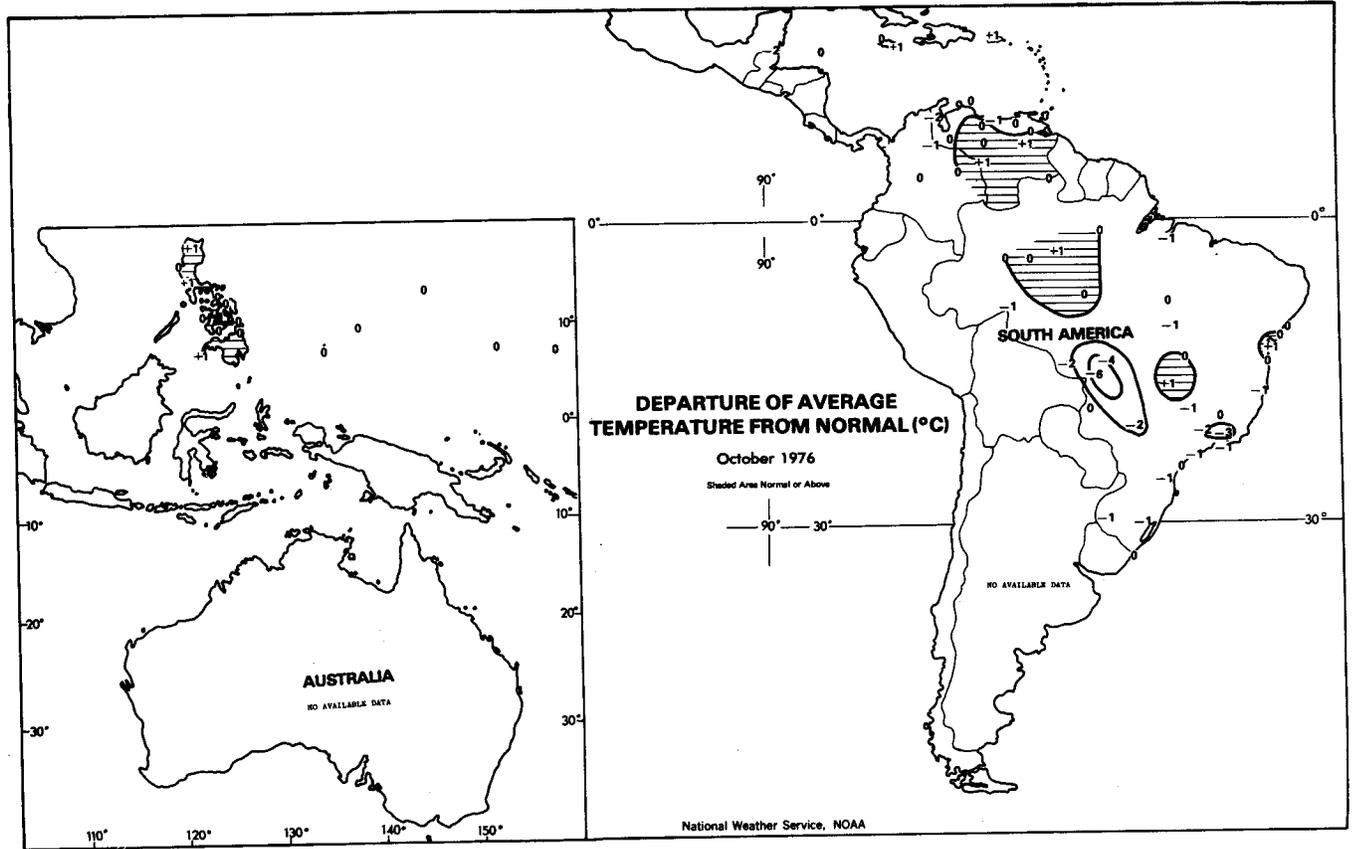
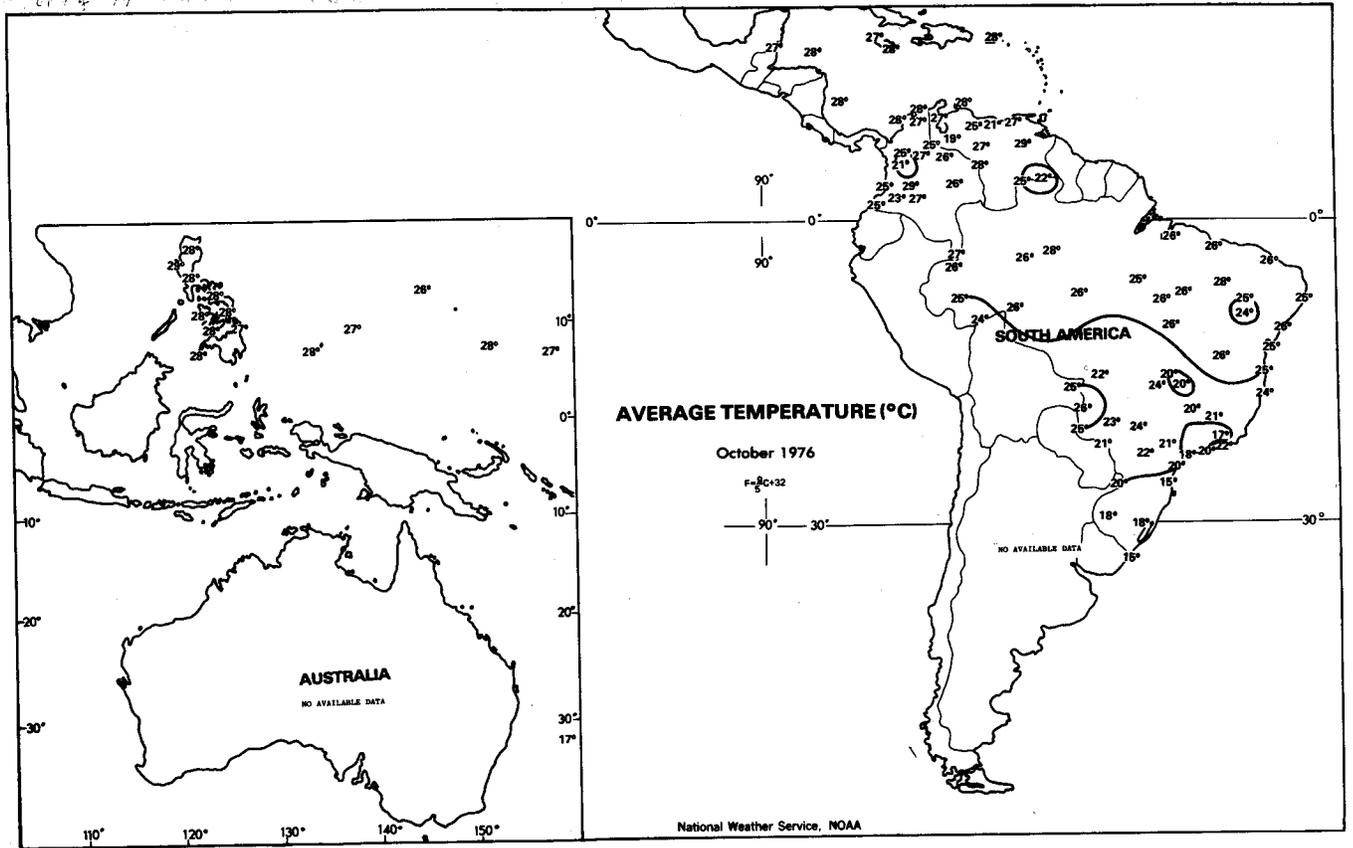














**FIRST CLASS MAIL**

**HARVESTING PROGRESS**

Percent of Acreage Harvested  
 (As of November 14)

SOYBEANS			
	1976	1975	Avg.
Ala.	72	63	67
Ark.	74	76	67
Ga.	42	51	1/
Ill.	100	100	100
Ind.	97	97	80
Iowa	100	1/	1/
Kans.	90	95	80
Ky.	78	80	1/
La.	95	82	77
Mich.	97	1/	1/
Minn.	100	1/	1/
Miss.	82	61	64
Mo.	91	93	77
Nebr.	100	100	100
N. C.	38	32	39
Ohio	100	1/	1/
S. C.	31	32	39
Tenn.	75	60	60
U. S.	88	81	76

These 18 States produced 96% of the Nation's soybeans in 1975.

SORGHUM			
	1976	1975	Avg.
Kans.	90	95	70
Mo.	93	95	77
Nebr.	100	100	90
Okla.	80	80	65
S. Dak.	100	100	1/
Tex.	97	98	88
6-States	94	96	81

These 6 States produced 90% of the Nation's sorghum grain in 1975.

CORN			
	1976	1975	Avg.
Ga.	88	84	1/
Ill.	91	96	83
Ind.	80	85	65
Iowa	100	100	1/
Kans.	90	95	75
Ky.	83	84	1/
Mich.	90	1/	1/
Minn.	100	1/	1/
Mo.	93	95	73
Nebr.	95	100	80
N. C.	91	92	85
Ohio	75	85	75
S. Dak.	100	1/	1/
Wis.	99	1/	1/
U. S.	92	94	78

These 14 States produced 89% of the Nation's corn in 1975.

COTTON			
	1976	1975	Avg.
Ala.	51	45	68
Ark.	79	79	72
Ga.	54	62	1/
La.	91	55	62
Miss.	84	46	70
Mo.	75	89	74
N. C.	55	63	65
Okla.	25	2	13
S. C.	64	78	77
Tenn.	60	60	70
Tex.	32	36	31
11-States	53	46	49

These 11 States produced 68% of the Nation's cotton in 1975.

1/Data not available.