

# WEEKLY WEATHER AND CROP BULLETIN

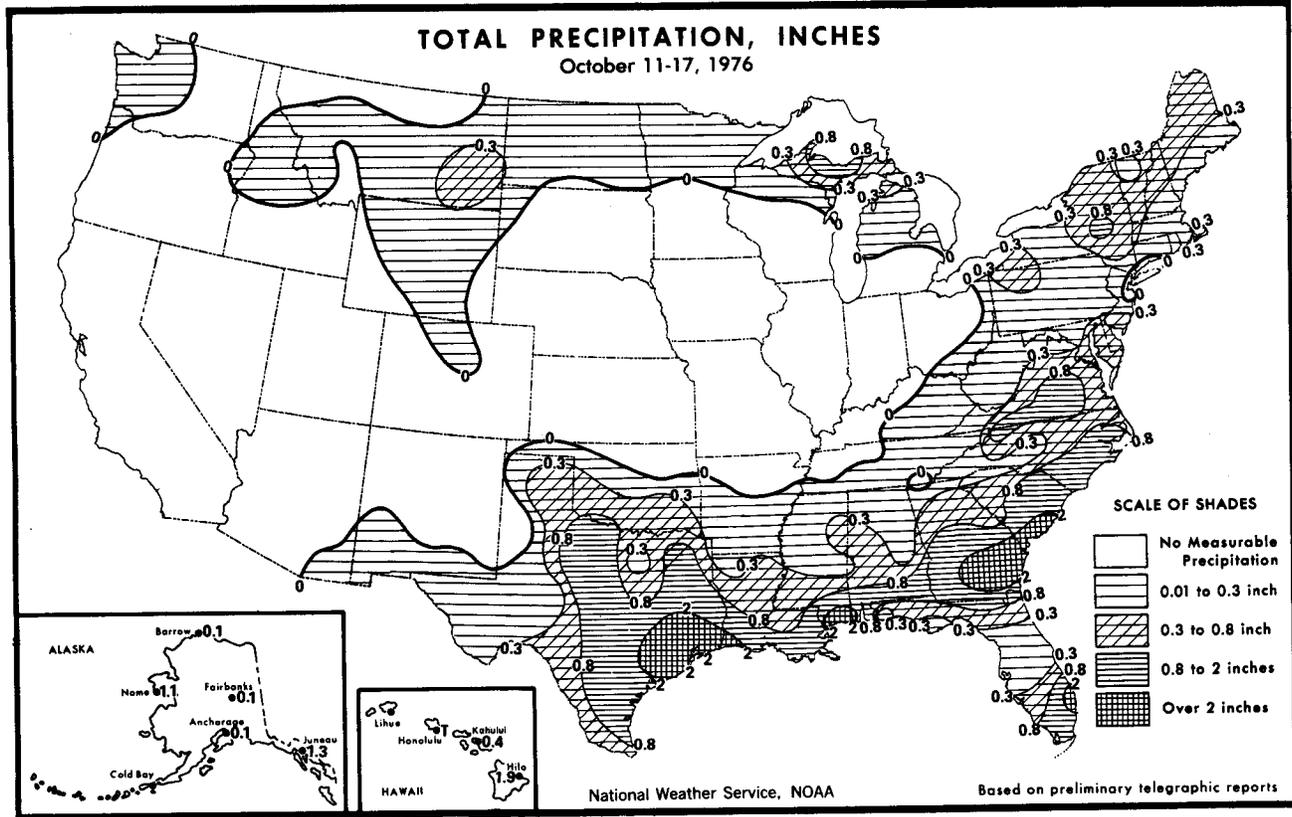
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## National Weather Summary

For the Week of October 11-17

**HIGHLIGHTS:** Cold weather dominated the Nation during the week. From the Rockies eastward to the Atlantic average temperatures were below normal. Portions of Texas, the Gulf Coast and the Northeastern States were as much as 6 to 7° below normal. West of the Rockies was warmer than normal by the same amount. Most of the precipitation fell east of the Appalachians and in the Gulf States. Snow was reported from the northern Rockies through the Great Lakes and into western New York.

A predominantly dry weather pattern persisted over the Nation early Monday. Western Montana and southern Florida reported the Nation's only precipitation.

Temperatures dropped to the 20's and 30's through most of the northern Atlantic Coast States in the early morning hours. Pennsylvania listed 23° at Germania and 25° at Bradford, while

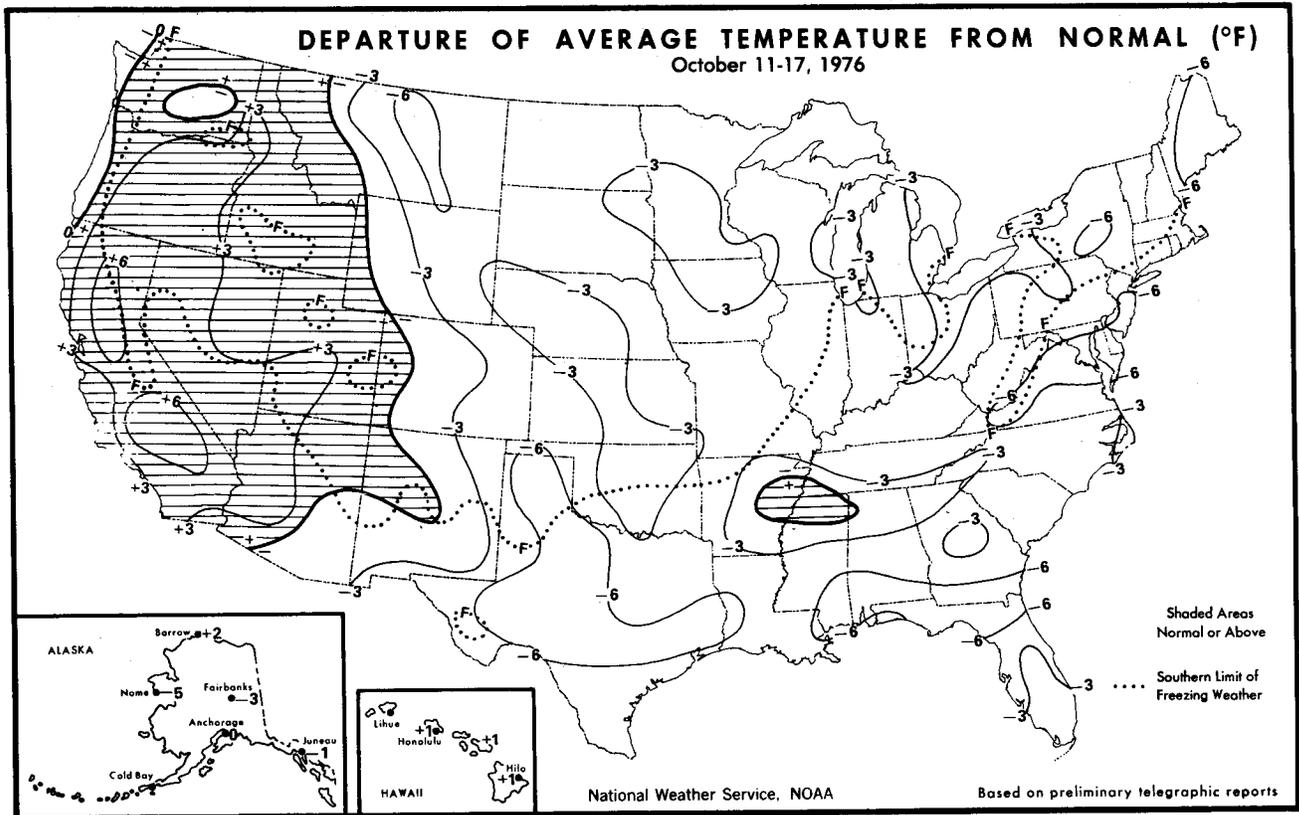
Watertown, N.Y. noted 29°.

Two large high pressure centers, one over Pennsylvania and the other several hundred miles off the Pacific Coast, dominated the afternoon weather pattern.

The Pennsylvania high kept early afternoon temperatures in the 50's over the northern Atlantic Coast States and in the 60's in the middle Atlantic Coast States and the Ohio Valley. It also pushed unseasonably warm air into the Plains States.

The Pacific high promoted mostly clear skies and warm readings through California and the Southwest.

A cold front moved through the northern Plains States with cooler weather for the area but little rainfall. By contrast, the most severe flooding in 40 years continued along the lower Broad River and the Congaree River in South Carolina.



The large high pressure area continued to provide clear skies, light winds, and cool temperatures for the eastern U. S. Tuesday. Notable early morning low readings included 21° Concord, N.H.; 22° Saranac Lake, N.Y.; 38° Columbia, S.C.; and 45° Tallahassee, Fla.

Most of the Nation had little precipitation, as large high pressure centers controlled the weather from coast to coast. After heavy rains and extensive flooding over the weekend, residents in the Atlantic Coast States and the Appalachians welcomed the dry trend. However, the northern Plains area could have utilized some of the excessive moisture from the eastern states.

Fall weather dominated most of the Nation on Wednesday. Most areas reported fair or sunny skies and mild temperatures. Very limited precipitation dampened the Nation.

Precipitation included some widely scattered showers and thundershowers over southeastern Arizona and southwestern New Mexico and also in the vicinity of a cold front from upper Michigan, across the northern Appalachians, and into northern New England. Light showers developed over the Lower Rio Grande Valley in Texas.

A strong, dry cold front, pushed by winds gusting up to 50 mph, raced through the upper Midwest Thursday. The strong winds kicked up areas of blowing dust in the drought-ridden Dakotas, much of Montana, and western Minnesota.

Behind the cold front, 40 degree readings prevailed in North Dakota while 70's were reported in the Mississippi Valley and 80's along the Gulf Coast. Record lows for the day included 31° in Muskegon, Mich. and 56° in Orlando, Fla.

A band of clear skies reached across Texas to Arizona, from South Carolina to northern Georgia, over the southern half of the Ohio Valley, and across Kansas and Colorado. A good

portion of the Intermountain and Pacific Coast regions also reported clear skies.

However, portions of the Northeast received cold temperatures, some snow, and hail. The other precipitation in the Nation occurred as scattered showers and thundershowers in southern New Mexico and southwestern Texas.

By late Friday the cold air mass had moved to a line from eastern New York to southwest Texas. Cold windy weather dominated behind the front. Temperatures around the Nation at 2 PM ranged from 86° at Brownsville, Tex. ahead of the front to 32° at Devils Lake, N.D. behind the front. Precipitation during the day ranged from snow flurries in the upper Mississippi Valley to light showers in the Lakes area and scattered showers and thunderstorms along and ahead of the front.

Saturday morning was cold and clear in the northern Plains. Many record low temperatures were set. Included were; Bismark, N.D. 12°; Huron, S.D. 17° and Valentine, Neb. 17°. By afternoon the cold air had moved into North Carolina and south Texas. Rain and showers were reported from the central Atlantic States across the Tennessee Valley and along the Gulf Coast into Florida. Some light snow was scattered from the upper Mississippi Valley across the Great Lakes.

Early Sunday morning temperatures were cold over most of the Nation with frost reaching as far south as the Texas Panhandle and northern Oklahoma and Arkansas. The cold weather was unseasonable and many record low temperatures were set. Snow fell in Montana, Wyoming and North Dakota during the afternoon. Also cold air from off the Lakes into western New York was triggering heavy snow showers. Elsewhere some rain or drizzle was being reported in eastern North Carolina and thunderstorms in Florida.

## National Agricultural Summary

For the Week of October 11-17

**HIGHLIGHTS:** Clear weather throughout the United States with the exception of rainy conditions from Texas, across the south to the Atlantic Coast and north through Virginia helped farmers maintain the fast harvest pace. Corn harvest almost reached the halfway mark, just ahead of last year and easily surpassing the average. Soybean combining advanced to 60% complete, also ahead of most recent years. Adverse harvest conditions kept cotton farmers from passing last year's picking rate. Dry soils in the northern Great Plains and rainy weather in Texas slowed seeding of winter wheat.

**SMALL GRAINS:** Winter wheat producers seeded 81% of the 1977 crop, about equalling last year's 80% but short of the 90% average. The largest producing States of Kansas, Oklahoma and Texas lagged the average because earlier dry soils discouraged some growers from planting too quickly and more recently wet fields in Texas slowed progress. Growers in some States delayed planting to avoid disease and insect problems.

Kansas producers reached 85% matching 1975's rate but short of the 90% average. In Oklahoma farmers planted 85% which exceeded last year's 68% but less than the 93% average. The Texas winter wheat crop grew well in most areas. Wet fields held plantings to 74% complete, less than both 1975's 80% and the 86% average. Producers in Colorado, Montana, Nebraska and South Dakota almost finished seeding their winter wheat crop.

**CORN:** Excellent weather conditions throughout the major corn producing States allowed farmers to make rapid progress. By October 17, 48% of the United States corn crop was harvested, 3 points ahead of last year and half again the average of only 32%. Picking progressed so fast in some areas that storage and marketing problems developed. In the western North Central States farmers picked 58% of their crop compared with 1975's 47% and almost double the 30% average. Minnesota and Iowa farmers were far ahead of last year's rate and the average. In the eastern North Central States harvest lagged last year but remained 3 points ahead of the average. Illinois farmers reached only 33% complete compared with 48% last year and 29% average. Very dusty conditions prevailed in some dry areas. In the South Atlantic States harvest advanced to 70% complete slightly ahead of last year and the average.

**COTTON:** Picking finally got underway throughout the South although rain held progress to a minimum in several States. In the 11 major Southern States picking reached 17% complete, short of last year's 21% and the 22% average. Only Mississippi and Louisiana farmers showed substantial progress over last year. In Texas, cotton harvest got underway on the High Plains. Wet fields slowed picking on the Low Plains. Statewide picking reached only 14% complete, behind 1975's 25% and the average 21%. In Oklahoma the cotton crop rated only poor to fair. Only 60% of the crop had open bolls, short of the average 72%, but ahead of 1975's 50%. Freezing temperatures damaged some New Mexico cotton. Arizona's growers defoliated more cotton and continued picking.

**SOYBEANS:** Combining of the Nation's soybean crop

reached 60% complete ahead of both 1975's 56% and the average of 46%. Most progress occurred in the North Central States where dry conditions pushed the crop to an early maturity and dried the crop quickly. In the eastern North Central States harvesting reached 81%, compared with 77% last year and 59% average. Farmers in Indiana, Illinois, and Wisconsin all were at least 25 points ahead of their average pace. In the western North Central States 82% of the soybeans were combined ahead of 75% last year and 54% average. Minnesota and Iowa growers led the pace with almost all their crop harvested compared with a 70% average in Minnesota and 62% average in Iowa. In the South Central States farmers combined 24% of the crop, a little ahead of recent years.

**OTHER CROPS:** Sorghum harvest in the six major States reached 66% complete, falling short of the 72% attained last year but well ahead of the 50% average. Progress in several States lagged last year including Texas, Oklahoma, Missouri and Nebraska. Kansas farmers reached the halfway mark, doubling the average harvest progress of only 25%. Rains in Texas curbed some harvesting activity but on the High and Low Plains combining progressed rapidly.

The Irish potato harvest in Maine was hampered by wet fields. In Idaho the potato harvest reached 75% complete compared with 60% a year earlier.

Arkansas rice farmers combined 82% of the crop. Weedy fields held progress under 1975's 91% complete. In Mississippi rice producers advanced combining to 87% complete, far ahead of 1975's 62% and the 71% average.

Peanut digging was nearly complete in the Georgia and Alabama production areas. Texas peanut growers edged past the 50% mark but fell short of the 78% last year and 71% average. In Oklahoma growers harvested 25% of the peanut acreage, enough to push past the 20% average but short of the 41% last year.

**FRUITS AND NUTS:** The Nation's apple harvest advanced toward completion. Virginia apple growers picked 79% of the crop, North Carolina 83%, New York 75% and the Pennsylvania harvest reached its peak. Florida citrus growers irrigated some groves and harvested early fruit. Texas growers picked some citrus fruit. Heavy cullage of California table grapes continued and many raisins were diverted to distilleries.

**VEGETABLES:** Widespread frosts ended vegetable production in northern areas of the United States excepting cabbage and root crops. Florida growers harvested light supplies of cucumbers, peppers, eggplant, squash and tomatoes. Texas growers also picked a wide variety of vegetables. California's vegetable season was nearly ended.

**PASTURES AND LIVESTOCK:** Grasslands in most of the western North Central States rated only poor to fair providing inadequate forage for this time of year. Elsewhere in the Nation pastures and grazing lands were fair to good. Cattlemen moved herds from mountain pastures to winter grazing areas. Farmers turned cattle onto corn and sorghum stubble fields to provide some temporary pasture.

Temperature and Precipitation Data for the Week Ending Midnight, l.st., October 17, 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 . . .	61	-3	.1	-.5	La.Baton Rouge . . .	64	-5	.3	-.3	Youngstown . . .	48	-4	.1	-.5
Mobile . . .	63	-7	1.0	+.5	Lake Charles . . .	65	-6	1.1	+.3	OKLA.Okla. City . . .	61	-1	.1	-.5
Montgomery . . .	62	-5	.1	-.4	New Orleans . . .	65	-6	1.6	+1.2	Tulsa . . .	61	-2	0	-.8
ALASKA Anchorage . . .	36	0	.1	-.2	Shreveport . . .	63	-5	.1	-.5	OREG.Astoria . . .	53	0	.2	-1.3
Barrow . . .	18	+2	.1	0	MAINE.Caribou . . .	39	-6	.6	-.1	Burns . . .	51	+4	0	-.2
Fairbanks . . .	24	-3	.1	-.1	Portland . . .	43	-7	.1	-.6	Medford . . .	56	+3	0	-.5
Juneau . . .	42	-1	1.3	-.5	MD.Baltimore . . .	52	-6	.4	-.2	Pendleton . . .	56	+4	0	-.2
Kodiak . . .	---	---	---	---	MASS.Boston . . .	53	-3	T	-.6	Portland . . .	56	+2	0	-.8
Nome . . .	34	-5	1.1	+.8	Chatham . . .	---	---	---	---	Salem . . .	53	0	T	-.8
ARIZ.Flagstaff . . .	51	+3	0	-.3	MICH.Alpena . . .	46	-2	.1	-.3	PA.Allentown . . .	49	-5	0	-.6
Phoenix . . .	77	+4	T	-.1	Detroit . . .	52	-2	T	-.6	Erie . . .	51	0	.5	T
Tucson . . .	70	-1	T	-.1	Flint . . .	50	-2	T	-.5	Harrisburg . . .	52	-3	T	-.6
Winslow . . .	58	0	0	-.1	Grand Rapids . . .	49	-4	T	-.6	Philadelphia . . .	52	-5	.1	-.5
Yuma . . .	78	+1	0	-.1	Houghton Lake . . .	45	-4	.1	-.5	Pittsburgh . . .	49	-4	.1	-.5
ARK.Fort Smith . . .	60	-4	T	-.8	Lansing . . .	48	-5	T	-.5	Scranton . . .	49	-3	.2	-.4
Little Rock . . .	63	0	T	-.6	Marquette . . .	46	-4	1.2	+.7	R.I.Providence . . .	48	-5	.2	-.5
CALIF.Bakersfield . . .	75	+7	0	-.1	Muskegon . . .	49	-3	.1	-.5	S.C.Charleston . . .	62	-4	2.0	+1.3
Eureka . . .	55	0	T	-.7	S. Ste. Marie . . .	42	-5	.3	-.3	Columbia . . .	59	-5	1.3	+.7
Fresno . . .	68	+3	0	-.1	MINN.Duluth . . .	42	-5	T	-.5	Greenville . . .	58	-3	.3	-.4
Los Angeles . . .	71	+2	0	0	Internat'l Falls . . .	41	-4	.1	-.3	S.D.Aberdeen . . .	47	-1	0	-.3
Red Bluff . . .	72	+6	0	-.2	Minneapolis . . .	50	-2	T	-.4	Huron . . .	46	-5	0	-.4
San Diego . . .	71	+5	0	-.1	Rochester . . .	47	-4	T	-.4	Rapid City . . .	48	-3	T	-.2
San Francisco . . .	64	+3	0	-.2	St. Cloud . . .	47	-2	T	-.4	Sioux Falls . . .	49	-3	0	-.3
Stockton . . .	71	+7	0	-.1	MISS.Jackson . . .	63	-4	.2	-.2	TENN.Chattanooga . . .	60	-2	T	-.6
COLO.Denver . . .	53	0	T	-.3	Meridian . . .	60	-6	.2	-.3	Knoxville . . .	57	-5	.1	-.5
Grand Junction . . .	58	+2	0	-.2	MO.Columbia . . .	54	-5	0	-.8	Memphis . . .	65	+1	T	-.6
Pueblo . . .	52	-4	0	-.2	Kansas City . . .	55	-4	0	-.8	Nashville . . .	57	-5	T	-.4
CONN.Bridgeport . . .	53	-4	T	-.6	St. Louis . . .	56	-4	0	-.6	TEX.Abilene . . .	61	-6	1.0	+.4
Hartford . . .	49	-4	T	-.6	Springfield . . .	57	-3	0	-.8	Amarillo . . .	54	-7	.5	+.1
D.C.Washington . . .	55	-6	.2	-.4	MONT.Billings . . .	45	-5	.2	0	Austin . . .	65	-6	1.0	+.3
FLA.Apalachicola . . .	65	-7	.1	-.5	Glasgow . . .	43	-5	0	-.1	Beaumont . . .	65	-6	2.3	+1.5
Daytona Beach . . .	71	-3	.1	-1.2	Great Falls . . .	45	-5	T	-.1	Brownsville . . .	72	-4	T	-.7
Ft. Myers . . .	74	-3	.5	-.5	Havre . . .	42	-6	0	-.1	Corpus Christi . . .	71	-4	1.1	+.5
Jacksonville . . .	65	-6	.5	-.6	Helena . . .	47	+1	T	-.1	Dallas . . .	---	---	---	---
Key West . . .	79	-1	1.6	+.3	Kalispell . . .	45	+2	0	-.3	Del Rio . . .	66	-6	.4	-.1
Lakeland . . .	72	-3	.1	-.6	Miles City . . .	45	-5	.4	+.3	El Paso . . .	61	-4	.2	0
Miami . . .	77	-1	.9	-1.1	Missoula . . .	47	+2	.1	-.1	Fort Worth . . .	65	-3	.2	-.4
Orlando . . .	74	-1	T	-1.0	NEBR.Grand Island . . .	52	-3	0	-.2	Galveston . . .	69	-5	1.0	+.4
Tallahassee . . .	63	-7	.3	-.3	Lincoln . . .	51	-4	0	-.4	Houston . . .	64	-8	2.0	+1.1
Tampa . . .	72	-3	.1	-.5	Norfolk . . .	50	-3	0	-.3	Lubbock . . .	57	-5	0	-.5
W.Palm Beach . . .	75	-3	2.4	+.3	N.Platte . . .	49	-2	0	-.2	Midland . . .	60	-7	.2	-.2
GA.Atlanta . . .	60	-3	.4	-.1	Omaha . . .	51	-3	0	-.4	San Angelo . . .	61	-6	1.9	+1.2
Augusta . . .	61	-4	.6	+.1	Valentine . . .	47	-3	T	-.2	San Antonio . . .	65	-6	1.9	+1.0
Macon . . .	65	-1	1.0	+.5	NEV.Ely . . .	47	+1	T	-.1	Victoria . . .	68	-5	1.8	+1.0
Savannah . . .	63	-5	3.2	+2.6	Las Vegas . . .	71	+4	0	-.1	Waco . . .	66	-4	.4	-.2
HAWAII.Hilo . . .	76	+1	1.9	-.6	Reno . . .	54	+4	0	-.1	Wichita Falls . . .	61	-6	.9	+.3
Honolulu . . .	80	+1	1.9	-.6	Winnemucca . . .	53	+5	0	-.1	UTAH.Blanding . . .	54	+1	0	-.4
Kahului . . .	78	+1	-.4	+.2	N.H.Concord . . .	45	-4	.1	-.5	Salt Lake City . . .	55	+2	0	-.3
Lihue . . .	54	+1	0	-.2	N.J.Atlantic City . . .	49	-7	.4	-.4	VT.Burlington . . .	45	-4	.1	-.5
IDAHO.Boise . . .	57	+4	0	-.2	Trenton . . .	50	-7	0	-.6	VA.Lynchburg . . .	54	-5	.8	+.2
Lewiston . . .	50	+1	0	-.1	N.MEX.Albuquerque . . .	58	0	0	-.2	Norfolk . . .	58	-4	.5	-.2
Pocatello . . .	59	-4	0	-.6	Roswell . . .	59	0	T	-.3	Richmond . . .	54	-6	.8	+.2
ILL.Cairo . . .	59	-4	0	-.6	N.Y.Albany . . .	47	-4	.3	-.3	Roanoke . . .	50	-9	.6	-.1
Chicago . . .	51	-6	T	-.6	Binghamton . . .	44	-6	.3	-.4	WASH.Colville . . .	48	+1	0	-.2
Moline . . .	51	-5	0	-.6	Buffalo . . .	48	-3	.2	-.4	Omak . . .	49	+1	0	-.2
Peoria . . .	51	-5	0	-.6	New York . . .	55	-3	T	-.6	Quillayute . . .	50	-1	T	-2.6
Rockford . . .	49	-5	0	-.6	Rochester . . .	49	-3	.2	-.4	Seattle-Tacoma . . .	55	+2	.1	-.7
Springfield . . .	53	-5	0	-.7	Syracuse . . .	48	-4	.4	-.3	Spokane . . .	49	0	0	-.3
IND.Evansville . . .	56	-3	0	-.6	N.C.Asheville . . .	54	-2	.2	-.6	Walla Walla . . .	57	+2	0	-.3
Ft. Wayne . . .	51	-4	0	-.6	Charlotte . . .	57	-4	.3	-.3	Yakima . . .	51	0	0	-.1
Indianapolis . . .	52	-5	0	-.6	Greensboro . . .	55	-4	.2	-.5	W.Va.Beckley . . .	49	-5	.2	-.4
South Bend . . .	52	-2	T	-.7	Hatteras . . .	64	-1	.8	-.3	Charleston . . .	53	-5	.2	-.3
IOWA.Burlington . . .	52	-5	0	-.7	Raleigh . . .	56	-4	.3	-.3	Huntington . . .	54	-4	.2	-.2
Des Moines . . .	53	-3	0	-.5	Wilmington . . .	61	-4	1.1	+.4	Parkersburg . . .	53	-5	.1	-.4
Dubuque . . .	50	-3	0	-.6	N.DAK.Bismarck . . .	43	-4	T	-.2	WIS.Green Bay . . .	47	-3	T	-.5
Sioux City . . .	50	-5	0	-.4	Fargo . . .	44	-3	T	-.3	La Crosse . . .	51	-2	0	-.5
KANS.Concordia . . .	55	-3	0	-.4	Williston . . .	42	-4	T	-.1	Madison . . .	47	-4	0	-.5
Dodge City . . .	55	-4	0	-.4	OHIO.Akron-Canton . . .	49	-4	T	-.5	Milwaukee . . .	50	-2	0	-.4
Goodland . . .	50	-4	0	-.2	Cincinnati . . .	53	-3	T	-.4	WYO.Casper . . .	45	-4	.1	-.1
Topeka . . .	54	-5	0	-.6	Cleveland . . .	52	-2	T	-.6	Cheyenne . . .	45	-4	0	-.2
Wichita . . .	58	-3	0	-.6	Columbus . . .	52	-2	0	-.4	Lander . . .	47	-1	.2	-.1
KY.Lexington . . .	54	-5	T	-.4	Dayton . . .	51	-4	T	-.4	Sheridan . . .	43	-6	.2	0
Louisville . . .	56	-3	0	-.5	Toledo . . .	50	-3	0	-.5	P.R.San Juan . . .	83	+2	1.4	+.1

Based on 1941-70 Normals

## 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 front brought light to moderate rain and cooler air 16th. Some heavy rain south on 16th. Season's first freezing temperatures isolated spots in north on 18th. Fieldwork: 5.5 days suitable. Soil moisture short to adequate. Major activities included harvesting peanuts, corn, cotton and soybeans. Cotton condition fair to good, 50% shows open bolls, 52% 1975, 73% average. Harvest 8% complete, 7% 1975, 23% average. Corn condition good; 61% harvested, 47% 1975, 48% average. Soybeans good condition; 16% harvested, 13% 1975, 19% average. Peanut harvest nearly complete, 82% combined, 81% 1975. Pecans poor condition. Seeding small grains 42% complete. Pastures adequate to short.

**ARIZONA:** Dry. Light showers southeast. Temperature departures 4° above to 4° below normal. Cotton defoliation, harvest continue, good yields. Bollworms, budworms problem in late fields. Harvest grain sorghum continues. Preparations next year's wheat, barley fields. Sugarbeet fields, good stands. Planting, renovation alfalfa fields well advanced. Lettuce satisfactory progress, thinning advanced, planting continues. Lemon harvest picking up, market active larger sizes. Grapefruit harvest limited. Dry, further deterioration ranges, especially desert. Stock water adequate higher elevations; short to adequate desert. Livestock good condition mountains, fair in desert.

**ARKANSAS:** Warm, turning cold over weekend. Overall means below normal. Rainfall sparse, generally less than 0.10 in.

Good harvesting. Fieldwork: 6.0 days available. Soybean harvest 17% complete, 18% year ago. Yields variable, irrigated fields yielded well. Cotton: Open bolls 74% of acreage, same as last year. Rice harvest 82% complete, 91% year ago. Numerous fields weedy. Corn harvest 96% complete, 89% last year. Sorghum harvest 90% complete, 86% year ago. Wheat and oats planting 33 and 32% complete respectively. Rain needed for germination and growth. Pastures generally short.

**CALIFORNIA:** Mostly fair with coastal areas reporting considerable night and morning low cloudiness and fog. Dry with only 0.01 in. precipitation along north coast and in San Joaquin valley. Temperatures in southeast interior about 1° above normal while elsewhere temperatures averaged 3 to 8° above normal.

Harvest of cotton, corn, grain sorghum, rice, dry beans increasing. Rain damage to alfalfa and dry beans apparent. Rice harvest about 50% complete. Heavy cullage of table grapes continue. Many raisins hauled to distilleries. Desert lemon harvest begun. Almond harvest nearing completion. Vegetable seasons approaching end. Many major crops processing tomatoes and cantaloups virtually complete. Range land growing well, supplemental feeding necessary. More rain needed to keep stock water supplies adequate level. Calving continues.

**COLORADO:** Clear, dry. Temperatures 2° above normal. Cold air mass 15th with freezing temperatures. Light showers mid-week; only measurable precipitation northern mountains, northeast foothills late 17th.

Winter wheat seeded 98%, 96% 1975, 97% average;

emerged 88%, 75% 1975, 85% average. Grain sorghum harvested 12%, 41% 1975, 18% average. Corn for grain harvested 18%, 44% 1975, 21% average. Sugarbeet harvested 15%, 32% 1975, 22% average. Summer potatoes harvested 98%, 97% 1975; fall potatoes 75%. Dry beans threshed 94%, 90% 1975, 84% average. Alfalfa 4th cutting 66%. Soil moisture short. Ranges and pastures fair. Livestock good.

**FLORIDA:** Temperatures several degrees below normal despite slow warming trend. Cold front produced between 1.50 to 1.00 in. of rain.

Soil moisture mostly adequate. Few dry spots west and central coastal areas. Corn, peanut and hay harvest in final stages. Cotton, soybean harvest underway. Sugarcane planting continues. Land preparation, planting small grains active. Pecan prospects remain variable. Pastures fair to good condition. Seeding small grains for winter forage. Pastures still being cut for hay. Ranchers spot treating for insect damage. Cattle, calves good condition. Citrus tree condition excellent, moisture short, some irrigation. Color break early fruit, harvest active. More vegetable harvesting. Sweet corn harvest active Everglades. Light harvest good quality cucumbers, fair quality green peppers. Eggplant harvest continues. Squash supplies increasing. Light tomato harvest underway. Most other vegetables in pre-harvest stage making good progress. Plantings continue.

**GEORGIA:** Temperatures 5 to 7° below normal. Rainfall less than 0.50 in. northwest, west; over 2.00 in. parts of east, south. Mostly fair and mild to cool. Frost in mountains again weekend. Rainfall over weekend; trace north to very heavy southeast.

Soil moisture adequate. Fieldwork: 5.0 days suitable. Cotton condition fair to good; 74% open, 8% harvested, last year 17%, average 34%. Peanuts fair to good condition; 94% dug, 88% threshed; last year 97% and 92% respectively; average 99% and 97%. Corn fair to mostly good condition; 75% harvested, 57% last year, 51% average. Soybean condition fair to mostly good; 4% harvested, 10% last year, 9% average. Hay crops fair to mostly good condition. Pecans mostly fair to good condition; 4% harvested, same as last year. Apples good; 94% harvested. Pastures, cattle, hogs all fair to mostly good condition. Wheat 21% planted, 25% last year. Rye 38% planted, 40% last year. Other small grains 39% planted, 36% last year.

**HAWAII:** Weather mostly favorable. Showers light and scattered higher windward section. Waimea area Hawaii dry.

Leafy crops affected. Need more moisture. Irrigation and spraying frequent all islands. Vegetable supplies: Lettuce getting short; all other adequate. Banana and papaya supplies heavy. Sugar harvesting steady. Pineapple harvesting light. Pastures most areas need more moisture.

**IDAHO:** Temperatures extremes: 66 and 20°. Precipitation only 0.25 in. Grangeville, elsewhere.

Crops harvested 1976, 1975: Potatoes 75%, 60%. Sugarbeets 15%, 20%. Dry beans 90%, 90%. Planted: Winter wheat 85%, 85%, barley 70%, 90%. Emerged: Winter wheat 55%, 60%, barley 30%, 65%.

ILLINOIS: Temperatures 4 to 6° below normal; cool period fourth straight week. No rainfall most areas.

Corn 33% harvested, 48% 1975, 29% average. Moisture content high. Soybeans 93% combined, 90% 1975, 67% average. Grain sorghum 45% harvested. Winter wheat 75% seeded, 81% 1975, 72% average. 1977 corn and soybean acreage 25% plowed, 24% 1975, 15% average. Pastures 16% good, 59% fair, 25% poor. Soil moisture short. Fieldwork: 6.8 days suitable.

INDIANA: Cool and dry. Temperatures 4° below normal and ranged from 18 to 83°. Killing frost was general on 18th; a little late for north and central, a little early for south. No rainfall.

Fieldwork: 7 days suitable. Topsoil moisture short to mostly adequate. Subsoil moisture short to adequate. Corn 25% harvested, 1975 25%, average 25%. Soybeans 75% combined, 1975 65%, average 45%. Wheat land 90% plowed, average 90%. Wheat 65% seeded, 1975 70%, average 60%. Wheat 20% emerged. Rye 75% seeded, 1975 75%. Barley 80% seeded, 1975 80%. Apples 85% picked, 1975 75%, average 70%. Pastures gain slightly, rated poor to fair.

IOWA: Cool, dry. Temperatures dropped into teens and 20's the 16th to 17th.

Warm dry weather provided farmers excellent harvesting conditions. Harvest toward completion many areas. Fall plowing continues, progress slow, dry soil conditions. Fieldwork: 7.0 days suitable. Corn and soybean yields vary considerably. Corn harvest 55%, 40% 1975, 24% average. Soybean harvest virtually complete, 91% 1975, 62% average. Winter wheat seeded 90%. Grain sorghum harvested 57%, 55% 1975, 38% average. Topsoil moisture short. Subsoil moisture short. Live-stock good condition, supplemental feeding continues. Pastures remain short, little feed value.

KANSAS: Dry weather with temperatures ranging from 53° northwest to 59° southeast or 1 to 3° below normal. Cooling trends produced hard freezes and record to near record low temperatures the past weekend.

Wheat planting moving along rapidly, 85% planted, same as last year, 90% average. Corn 95% mature, same as last year, and average. Corn harvest ahead of normal, 45% complete, 60% last year, 35% average. Sorghum 95% mature, 90% last year, 80% average. Sorghum harvest well ahead of average, 50% harvested, 45% last year, 25% average. Soybean harvest underway, 45% harvested, 30% last year, 35% average.

KENTUCKY: Precipitation on 16th scattered and averaged less than 0.10 in.

Temperatures at or slightly below normal. Fieldwork: 5.5 days favorable. Main activities centered around corn, soybean and tobacco harvest and seeding winter cover crops. Corn harvest 40% complete, 41% last year and average. Soybean combining 29% done, 28% last year and average 30%. Considerable harvest progress led to storage and marketing problems. Burley stripping made only limited progress but at 10% is most advanced for this date since 1962. Mid-October usually finds only 5 to 6% of the crop stripped. Nearly 75% of dark fired types are still being fired in west. Wheat and barley seeding delayed to try and escape disease and insect problems, 35% of wheat and 50% of barley already in ground. Pastures generally maintaining good fall growth.

LOUISIANA: Temperatures 4 to 6° below normal. Extremes: 86 and 31°.

Soil moisture generally short. Fieldwork: 6 days suitable. Cotton condition fair to good; harvested 35%, 15% last year, 19% average. Soybeans fair to good; 90% shedding leaves, 52% harvested, 38% last year, 34% average. Sugarcane good condition, 2% harvested, 7% last year, 4% average. Sorghum 90% harvested, 64% last year. Sweetpotatoes 80% dug, 73% last year. Oats 60% seeded, 53% last year. Wheat 50% seeded, 48% year ago. Last cutting hay 78% complete. Pastures fair. Cattle fair to good.

MARYLAND & DELAWARE: Temperatures 4 to 5° below normal. Precipitation light to moderate. Weekend cool, rain on 17th.

Harvest slowed due to wet conditions. Soil moisture supplies adequate. Pastures average to above average. Corn for grain 55%, 70% 1975, 61% average. Soybeans 15%, 20% 1975, 15% average. Small grain seeding active; oats 75%, barley 70%, rye 60%, wheat 50%. Fall apple harvest active.

MICHIGAN: Temperatures ranged from 79 to 21°. Precipitation sparse, ranged from 0 over the southeast and south central Lower Peninsula to 0.76 in. over western Upper Peninsula.

Soil moisture short to adequate, mostly short north. Fieldwork: 6.0 days suitable. Grain corn over 25% picked. Silage chopping complete. Winter wheat over 90% planted. Dry bean harvesting complete. Soybeans 50% combined. Sugarbeets 20% dug. Potatoes almost 85% dug. Pasture feed short. Third cutting hay finished. McIntosh picking finished. Jonathans over 90% picked. Other fall apples progressing. Grape harvesting completed. Dry onions all dug. Carrots and celery over 90% completed. Cabbage and cauliflower harvesting normal.

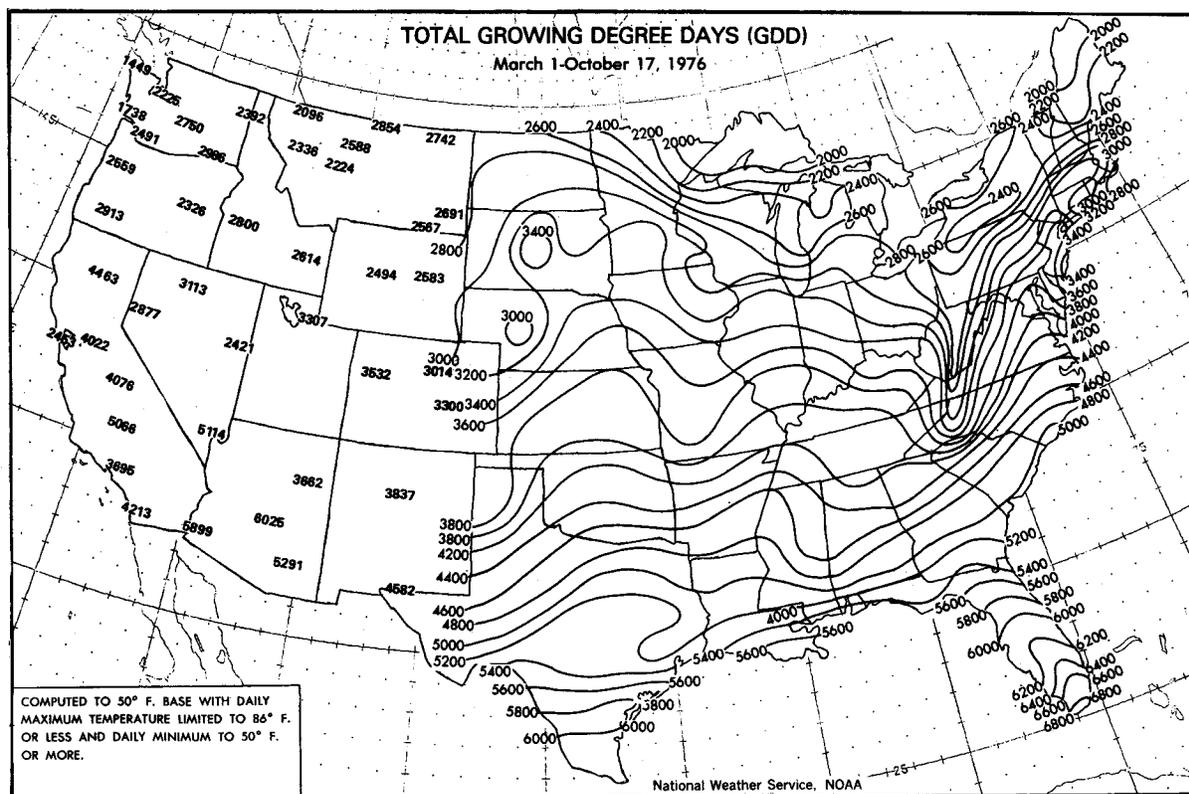
MINNESOTA: Cool, dry. Temperatures 3° below normal. Above normal first half and much below normal last. Extremes: 86 and 9°. Precipitation ranged from none most of southern half to around 0.10 in. extreme north.

Another good week harvesting fall crops. Corn picking 3 weeks ahead normal. Brittle corn stalks causing some problems. Some ear droppage because of strong winds. Corn 78% picked, 1975 46%, normal 32%. Soybeans 98% combined, 1975 90%, normal 70%. Sugarbeets 87% lifted, 1975 70%, normal 71%. Potatoes 98% harvested, 1975 94%, normal 88%. Sunflowers 90% harvested, 1975 40%, normal 59%.

MISSISSIPPI: Temperatures well below normal. Extremes: 35 and 87°.

Soil moisture very short to short south, short to adequate elsewhere. Fieldwork: 6.1 days suitable. Cotton 95% open bolls, 89% 1975, 70% average; 26% harvested, 9% 1975, 27% average. Soybeans 93% shedding, 76% 1975; 59% mature, 43% 1975; 25% harvested, 18% 1975, 20% average. Rice 87% harvested, 62% 1975, 71% average. Corn 68% harvested, 54% 1975, 49% average. Sorghums 86% harvested, 71% 1975, 70% average. Hay crops 93% harvested, 89% 1975, 91% average. Peanuts 86% harvested, 83% 1975, 79% average. Sweetpotatoes 73% harvested, 69% 1975, 65% average. Pecans 5% harvested, 4% 1975. Winter wheat 61% planted, 56% 1975. Oats 60% planted, 57% 1975. Crops are in mostly fair condition.

MISSOURI: Temperatures 1° below normal in East Ozarks and Bootheel, 2° below normal in the northeast prairie, 1° above normal elsewhere. No precipitation. Fieldwork: 6.2 days suitable. Soybeans 89% mature, 83% 1975, 74% normal. Soybeans 54% harvested, 49% 1975, 35% normal. Corn 64% harvested, 67% 1975, 42% normal. Grain sor-



ghum 61% harvested, 72% 1975, 47% normal. Cotton 60% bolls open, 99% 1975, 99% normal. Cotton 20% harvested, 57% 1975, 36% normal. Cotton poor to fair. Winter wheat seeding 46% complete, 64% 1975. Fall plowing 27% complete, 26% 1975. Condition of pastures is poor. Soil moisture short.

**MONTANA:** Mild till midweek with light scattered showers west and south 17th. Colder with strong northerly winds 14th, continuing through weekend with snow. Temperatures near normal west to 5° below normal elsewhere.

Soil moisture short. Winter wheat condition mostly fair. Stands uneven later planted fields. Potato harvest good progress, 75% complete. Sugarbeet harvest also active, 55% complete. Livestock condition good. Nearly 60% cattle and sheep moved from summer pastures and ranges.

**NEBRASKA:** Temperatures 3 to 18° above normal first 4 days and 10 to 20° below normal remainder. No measurable precipitation.

Topsoil and subsoil moisture short. Corn for grain 40% harvested, 30% normal, and 50% 1975. Sorghum 70% harvested, normal 50%, 80% 1975. Soybeans 75% harvested, 55% normal, 80% 1975. Wheat seeding nearly finished. Wheat condition fair to good. Moisture needed for continued development. Sugarbeet harvest 40% complete. Pasture and range feed supplies short. Cattle moved to corn and sorghum stalk fields.

**NEVADA:** Dry, mild weather. Light local showers. Temperatures a little above normal. Extremes: 90 and 19°. Freezing nighttime temperatures common north and south central.

Potato harvest well along. Alfalfa seed harvest

about completed. Winter grain seeding continues. Livestock movement to lower elevations gaining momentum.

**NEW ENGLAND:** Temperatures variable; cool early, warming late week. Showers and thunderstorms 13th and 14th.

Potato harvest in Aroostook County, Maine, hampered by wet fields.

**NEW JERSEY:** Cold frosty temperatures 6 to 8° below normal. Extremes: 73 and 25°. Rainfall 0.03 in. north, 0.05 in. central and 0.41 in. south. Soil moisture, in percent of field capacity, 91% north, 85% central and 97% south. Soil temperature averaged 52° north and 58° south.

Harvest of hardy crops continues. Irish potato harvest nearing completion. Sweetpotato harvest over half finished. Apple harvest well advanced. Cranberry harvest about 75% complete. Harvest of corn for grain general. Soybean harvest continues. Cover crop and grain seeding continues as corn and soybean fields are harvested.

**NEW MEXICO:** Scattered showers, mostly light, southern third 13th and 14th, otherwise no precipitation. Gradual cooling. Temperatures within 1 or 2° normal.

Soil moisture short, ranges fair, livestock good. Cotton fair to good, damage from early freeze southeast. Harvested 5%, and slowly continuing. Alfalfa good, southern area on fifth cut, northern areas finishing third and fourth cut. Grain sorghum fair, freeze damage in some northeastern areas, 50% harvested. Corn good, 50% harvested. Irrigated winter wheat 90% acceptable stand, dryland crop had a 60% acceptable stand. Apple harvest well advanced, crop

good. Lettuce and chili harvest proceeding well. Peanut digging active due to early freeze.

**NEW YORK:** Cool, dry. Cool temperatures moderated toward midweek, then dropped again by weekend. Temperatures near normal northeast, 2 to 5° below normal elsewhere. Extremes: 74 and 15°. Precipitation ranged from 1.08 in. to trace, mostly well below normal. Mostly areas received hard frost.

Corn silage harvest moving well, 65% done. Grain corn harvest delayed by high moisture content, 5% complete. Onion, celery, lettuce, and Upstate potato harvests nearly complete. Late sweet corn hit hard by frost, some acreage will be abandoned. Cabbage yields variable. Grape harvest almost done, little freeze damage. Apple harvest 75% complete, some varieties 100%.

**NORTH CAROLINA:** Temperatures near or slightly below normal. Extremes: 30 and 85°. Rainfall scattered, mostly less than 0.50 in.

Fieldwork: 4.8 days suitable. Soil moisture mostly adequate. Flue-cured tobacco marketing continues active. Corn for grain 76% harvested, 1975 67%, average 68%. Peanuts 67% dug, 1975 82%. Peanuts threshed 46% 1975 65%, average 60%. Cotton 13% harvested, 1975 10%, average 26%. Sorghum 65% combined, 1975 45%. Soybeans 5% harvested, 1975 6%. Sweetpotatoes 63% dug, 1975 56%. Apples 83% picked, 1975 82%, average 76%. Wheat 21% planted, 1975 30%, average 33%. Pastures fair to good.

**NORTH DAKOTA:** Temperatures 1 to 4° above normal. Extremes: 83 and 11°. Precipitation about 0.20 in. below normal. Weekend cool and cloudy with first snow on 17th.

Sugarbeet harvest about 90% complete. Corn for grain and sunflower harvest nearing completion. Pasture and ranges poor.

**OHIO:** Sunny and fair. Precipitation and temperatures below normal. Killing frost 17th.

Harvest very active and conditions now excellent. Fieldwork: 6.0 days favorable. Harvest completed: Corn 25%, 20% 1975, 25% normal; soybeans 65%, 60% 1975, 55% normal; sugarbeets 20%, 25% last year and normal, sugar content good; popcorn 40%, 30% 1975, 35% average; potatoes 90%, 85% last year and normal. Apple and grapes 75%, on schedule. Fall sown grains excellent; 25% wheat emerged. Wheat 75% seeded, 70% 1975 and normal. Barley virtually completed. Soil moisture mostly adequate. Pasture condition fair to good. Livestock in good condition. Limited use of crop residue.

**OKLAHOMA:** Temperatures 1 to 3° below normal. Precipitation traces or none except few light showers in southeast and south central. Weekend cool with scattered light showers in southern half.

Topsoil and subsoil moisture adequate. Winter wheat good condition, 85% planted, normal 93%, and 1975 at 68%. Oats and barley good condition. Oats 70% planted, normal 80%, and 1975 63%. Barley 60% planted, normal 80%, and 1975 56%. Sorghum fair to good condition, with 37% harvested, normal 30%, and 1975 53%. Cotton rated poor to fair, 60% of the crop has open bolls, normal 72% and 1975 50%. Peanuts rated fair, 25% harvested, 1975 41%, and normal 20%. Soybeans fair to good condition, less than 10% harvested, compared with 15% in 1975 and 16% normal. Pastures and range in fair condition but livestock remain in good condition.

**OREGON:** Temperatures mostly 2 to 10° above normal. Extremes: mid 80's and mid 30's west; low 80's and mid 20's east. Rainfall below seasonal norm and confined largely to coast and Willamette Valley.

Fall seeding activities progressing on schedule. Haying mostly over, some third cutting in higher elevations. Silage harvest continues. Apple harvest continues. Potato harvest in full swing. Ranges and pastures in good condition but some drying. Livestock in excellent condition.

**PENNSYLVANIA:** Cool, sunny and breezy. Temperatures 3 to 7° below normal with daily range mostly from 30's and 40's to 50's and 60's. Frost and freezing several mornings. Extremes: 75 and 25°. Scattered showers and thunderstorms produced from less than 0.25 in. rainfall most southern and central areas to slightly more than 0.50 in. northwest where 1 in. snow fell 17th.

Fieldwork: 4.0 days suitable. Soil moisture adequate to mostly surplus. Activities: Filling silos, fall plowing, corn picking, apple and grape harvest. Potato harvest 81%. Corn for grain 58% mature, 8% harvested. Ensilage corn 74% harvested. Wheat and barley sown 85%. Feed from pastures average to above. Alfalfa seeding germination good. Little hay made, fair quality. Clo-tim 2d cut virtually complete. Apple harvest at peak, good size and quality. Grape harvest accelerating. Soybeans in good condition, 21% harvested.

**PUERTO RICO:** Well distributed rainfall with island average of 3.36 in. or 1.57 in. above normal. Temperatures 80° on coasts and 74° interior. Extremes: 94 and 60°.

Favorable weather for growth sugarcane although excessive rainfall caused some damage. Good weather for coffee plantations. Heavy rains at Adjuntas caused some fall of beans from trees. Tobacco seedbeds damaged by heavy rains some areas. Soil preparation for planting underway. Pastures in good condition. Planting and fertilizing active. Winds caused some damage bananas.

**SOUTH CAROLINA:** Temperatures below normal, much below early, near normal late week. Extremes: 37 and 85°. Little rain.

Flood damage to crops, also some erosion damage. Corn harvest nearing completion; cotton picking, soybean harvest getting underway. Seeding small grains. Pickling and fresh market cucumber, squash, snap bean, peanut harvest continues. Fall vegetables suffering from disease. Corn harvested 91% 1976, 84% 1975, 76% average. Cotton harvested 19% 1976, 26% 1975, 30% average. Soybeans matured 14% 1976. Wheat planted 10% 1976, 13% 1975, 12% average. Oats planted 19% 1976. Barley planted 18% 1976.

**SOUTH DAKOTA:** Very dry, greatest precipitation 0.15 in. Drought is worst of this century. East River moisture deficiency ranges from 7.00 to 13.39 in. Temperatures 6° below normal. Extremes: 87 and 7°.

Topsoil moisture short. Record early harvest continuing in favorable weather with low yields. Corn for grain harvest 80% complete, 1975 48%, normal 45%. Grain sorghum 88% harvested, 1975 83%, normal 59%. Soybean harvest 95% complete, 1975 90%, normal 68%. Soybean yields below average. High winds stopped alfalfa seed harvest north central area; harvest

continues in west. Fall seeded grains variable, good southeast and southwest, generally poor elsewhere. High livestock sales continue in west. Cattle being moved out of state for winter. Hay being shipped in. Corn and sorghum stubble providing temporary pasture.

**TENNESSEE:** Temperatures to 30's over weekend, rainfall around 0.10 in. Temperatures about 3° below normal with lows, 30's to 60's and highs 60's to mid-80's.

Dry weather promoted crop maturity and aided harvest operations. Fieldwork: 5.2 days suitable. Pastures fair. Soil moisture adequate. Corn harvest in full swing but high moisture holding back harvest. Corn 42% harvested, 40% last year, 45% average. Cotton defoliated, but crop maturity 2 weeks behind normal. Cotton 55% open boll stage, 65% last year, 75% average. Cotton 10% harvested, 20% last year, 30% average. Soybean harvest underway, mostly in early planted fields. Soybeans 40% mature, 60% last year, 50% average. Soybeans 15% harvested, 15% last year and average. Burley tobacco 35% stripped, 27% last year, 25% average. Fall plowing 72% completed, 72% last year, 78% average. Wheat 50% seeded, 50% last year, 55% average. Oats 72% seeded, 70% last year, 80% average. Barley 70% seeded, 70% last year, 80% average.

**TEXAS:** Temperatures below normal, ranging from 3 to 4° below normal in south and southwest. Rainfall below normal west of Pecos River, Panhandle and Lower Rio Grande Valley and above normal elsewhere.

Harvesting corn, sorghum on High Plains advanced rapidly, other areas, harvesting progress all crops slowed by rain. Cotton harvesting on High Plains just getting underway. Harvesting on the Low Plains slowed by wet field conditions. Statewide harvesting 14% complete well behind last year's 25% and the 3 average of 21%. Sorghum harvesting on High, Low Plains full swing. Harvest 77% complete, 1975 86%, average 69%. Corn harvesting 70% complete, 1975 91%, average 82%. Harvesting active on High Plains, nearly complete elsewhere. Soybean harvest progresses well; 26% done, 28% 1975, 19% average. Rice along Upper Gulf Coast maturing slowly. Second cutting should be completed within four weeks. Wheat in most areas making excellent growth. Planting slowed by wet fields now 74% complete, well behind 80% 1975 and 86% average.

Scattered citrus harvest continues. Harvest of all vegetables active. Rain damaged some crops. Pecan harvest active.

Ranges central above average feed, all other areas average. Pastures in east and northern Panhandle need rain. Cattle generally good condition.

**UTAH:** No precipitation. Temperatures near normal to 7° above. First killing frost of season north 11th.

Good harvest weather spurred harvest of apples, sugarbeets, silage corn, potatoes, pinto beans, and alfalfa seed. Potatoes were 70 to 80% harvested, sugarbeets 20 to 25%, silage corn 90 to 95%, pinto beans 95%. Grain corn harvest starting in some early areas. Winter wheat for 1977 was 85 to 90% drilled. Germination fair to good.

**VIRGINIA:** Temperatures several degrees below normal. Extremes: 86 and 28°. General 2.00

in. rain on 9th. Killing frost at several locations. Higher elevations 2 in. of snow on 17th. Fieldwork: 3.6 days suitable. Topsoil moisture adequate. Excess moisture slowing some field operations. Corn for grain 42% harvested. Corn silage harvest winding down. Soybean harvest 16% complete. Peanut digging 44% complete, 20% combined. Pastures in very good condition. Small grain seeding progress: Wheat 32%, barley 52%, oats 54%. Apple harvest 79% complete. Beef cattle and sheep getting about 85 to 90% of forage from grazing.

**WASHINGTON:** West: Temperatures near normal east Cascade foothills to 2° above normal Puget Sound Lowlands. Precipitation from 0.30 in. below normal northeast to 1.5 in. below normal west. Frost in scattered areas.

Stepping up sweet corn harvest. Corn silage harvest in full operation. Potato harvest continues. Cattle still out; pastures green. East: Temperatures from 2° above normal northeastern to 5° above normal Palouse-Blue Mountains. Precipitation from 0.10 in. below normal to 0.30 in. below normal.

Apple harvest Red Delicious winding down, now 80 to 90% complete. Maturity, quality 10 days behind; color, size finishing perfect. Picking grapes, cool weather improved sugar content. Sugarbeet digging increasing. Potato digging continues. Fall grain seeding 60 to 80% complete. Deep soil moist; topsoil dry. Good early seeded wheat stands, spraying greenbugs. Pastures dry, grass short. Cattle still out in good condition.

**WEST VIRGINIA:** Temperatures and precipitation well below normal. Freezing all areas except southwest.

Fieldwork: 3.7 days suitable. Silo filling, hay making most active. Corn grain harvesting 23% complete. Soil moisture adequate to surplus. Third haying 90% complete. Uncut hay condition fair. Pasture condition fair to good.

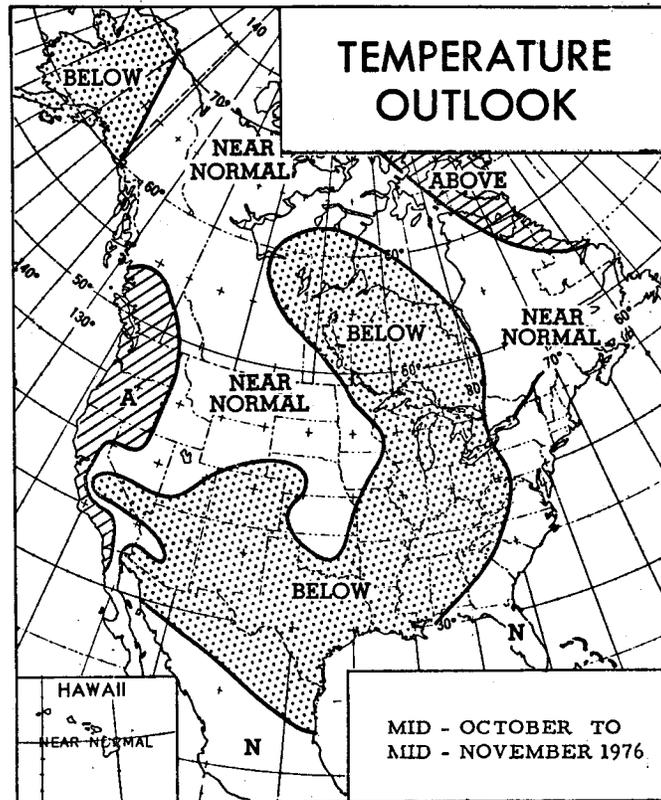
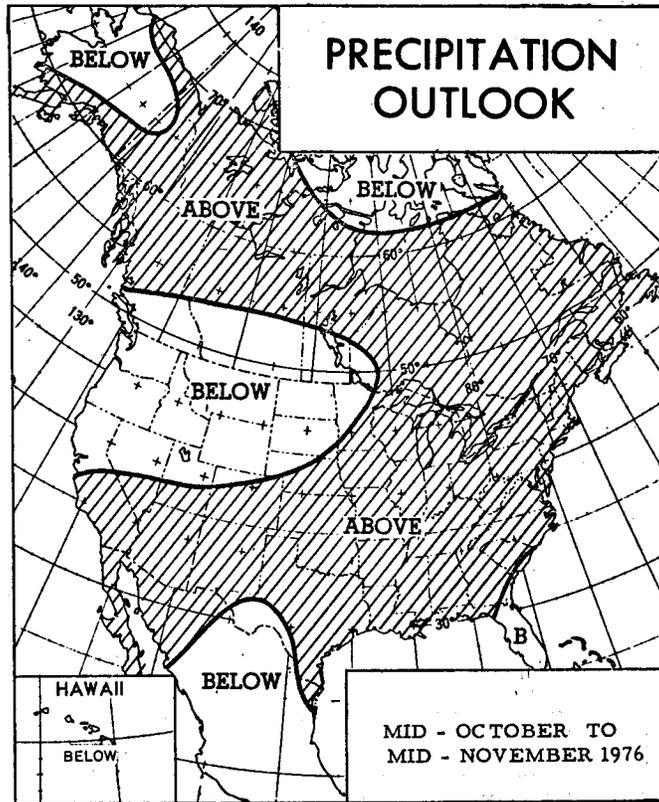
**WISCONSIN:** Temperatures 2 to 3° subnormal. Highs in 60's and 70's until sharply cooler after 14th. Weekend temperatures in 40's. Precipitation very light. Only northern stations had measurable amounts of 0.10 in., 1 in. snow 15th.

Corn for grain 35% harvested, 1975 30%, normal 15%. Quality good, moisture content low. Some field shelling of corn during harvest due to dryness. Stalks being chopped for feed and bedding. Strong winds made harvesting a dusty job and knocked some corn stalks over. Soybeans 40% harvested, 1975 50%, normal 15%. Fall plowing 15% done, 1975 28%, normal 26%. Little moisture in ground for plowing. Stubble ground being worked by digging implements. Winter wheat stands good southeast but spotty other areas where not enough rain after seeding. New seedings show little growth. Potato harvest near end, irrigation used to germinate rye cover crop. Apple and cranberry harvest well advanced. Soil moisture short. Water levels low. Fire danger great, numerous marsh and forest fires.

**WYOMING:** Temperatures slightly above normal. Precipitation below normal.

Soil moisture short. Winter wheat 90% emerged. Prospects fair to good depending on area. Potatoes 72% dug. Sugarbeets 49% dug. Dry beans 92% combined and grain corn 27% picked. Major activities: Row crop harvest and working livestock.

Average Monthly Weather Outlook



## World Agricultural Weather Summary

(September review, October 18 update)

**HIGHLIGHTS.** Farmers planted USSR and US winter wheat under much better moisture conditions than 1975. September-October rains favored growth of pastures and catch feed crops in Europe. Hurricanes raised havoc in Mexico but improved the water situation. Argentina and Australian crops benefitted by good rains. India's southwest monsoon retired early.

**EUROPE.** September brought relief to the prolonged drought in much of Europe. Indeed, it was the wettest September on record in Dublin. Rainfall exceeded normal in the west except for areas on the Continent adjacent the North Sea. Most of Iberia was unusually wet. In contrast little rain fell in southern Italy, Greece, and Bulgaria. Temperatures averaged below normal throughout Europe...much below in the eastern Mediterranean countries.

Late maturing crops, catch crops, and pastures profited by increased rainfall. Improved soil moisture enhanced conditions for fall tillage and for emergence of winter grains. Frequent sunny days favored harvest of corn, sugarbeets, potatoes, sunflowers and other crops in the Balkans. Throughout much of Europe a good mix of wet and dry days in October permitted orderly farm activities. Soil moisture improved considerably in East Germany, Poland, and Czechoslovakia.

**USSR.** Northern European USSR dried out somewhat in September and permitted more rapid harvesting of late maturing crops and facilitated sowing winter grains. In much of the south, rain impeded harvesting late crops, rice, but encouraged good emergence of winter grains. The wet weather particularly stressed sunflowers already troubled by diseases.

Major grain corn areas escaped freezing temperatures until mid-October when wintry weather spread over much of the USSR. In the colder regions of west Siberia and in the northern European sector, crops ceased growth. Soviet reports suggested most of the winter grain in these areas tillered fully before cessation of growth. Grain in the south grew well until slowed by the October cold snap.

Cotton harvest in Central Asia progressed nicely under mostly favorable weather in September. A wet spell in early October harassed activities and frost ended the growing season in northern and high elevation districts... perhaps with some loss of cotton. Wet weather plagued Azerbaijan cotton throughout harvest.

**AMERICAS.** A brilliant fall climaxed a near perfect growing season for grain and oilseeds in the Canadian Prairie Provinces. However, dry soils stressed pastures and rangeland and made tillage difficult. In contrast to 1975, generous rains set the stage for good stands of winter grains and forage crops in major US winter grain regions. Two hurricanes tormented parts of Mexico during the period extracting heavy loss of property and life... however, they greatly relieved soil and storage water problems.

Hurricane Madeline moved slowly along the coast of Central America and brought rain to stressed crops. Columbia also received drought-easing rain but parts of the interior highlands and the Atlantic coast received only token amounts. The moisture shortage stressed crops and delayed planting.

Showers fell in northeast Brazil but amounted to very little in the heart of the drought area. Central and southern regions except for Rio Grande do Sul, received well above normal rainfall; advantageous for spring-sown crops but a nuisance to maturing winter wheat and harvesting. Rainfall totaled less than usual in the important winter wheat state of Rio Grande do Sul.

Grain areas of Argentina received relatively light rainfall in September. Copious October rains, however, were timely for winter wheat in the jointing stage and for spring-sown crops, pastures, and range. September rains relieved dry conditions in Chile.

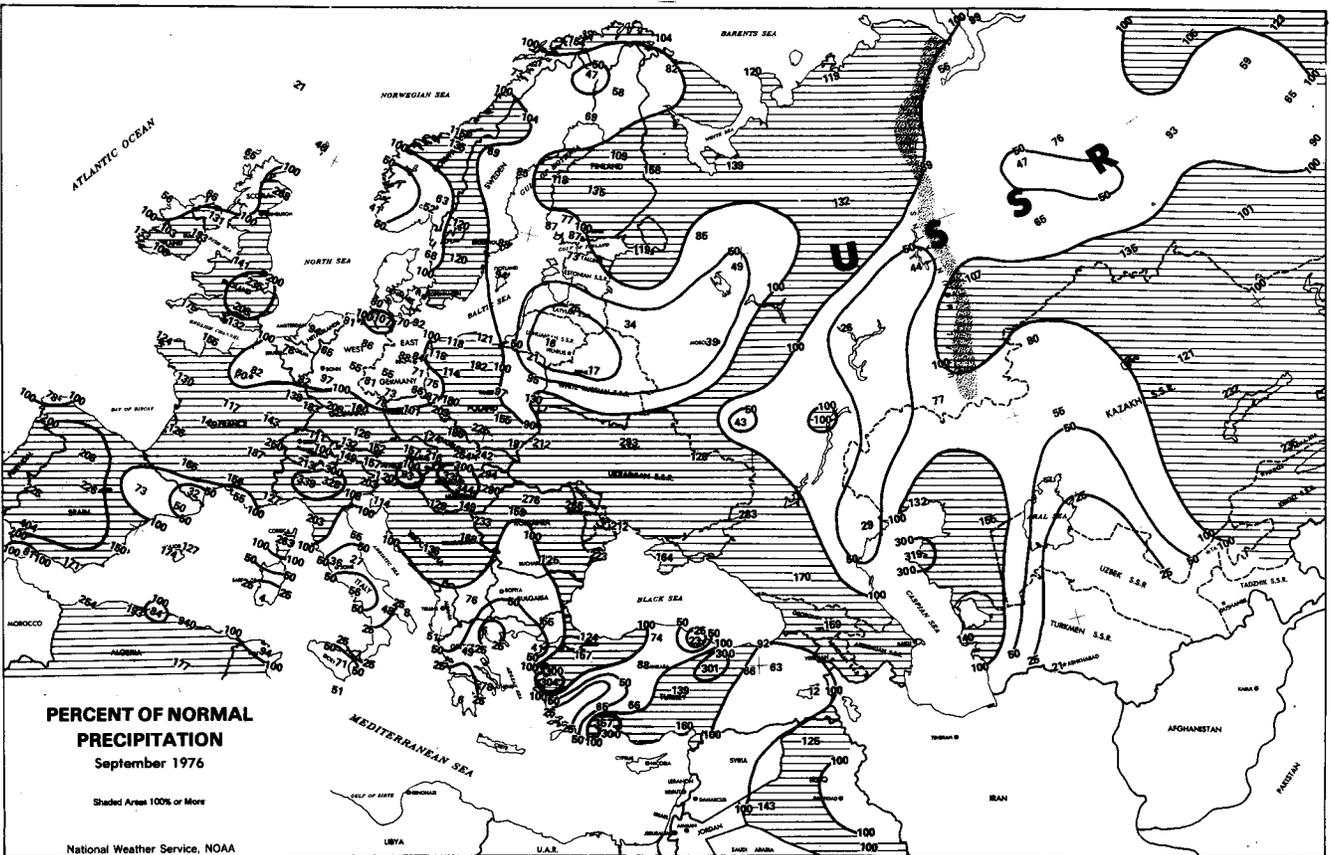
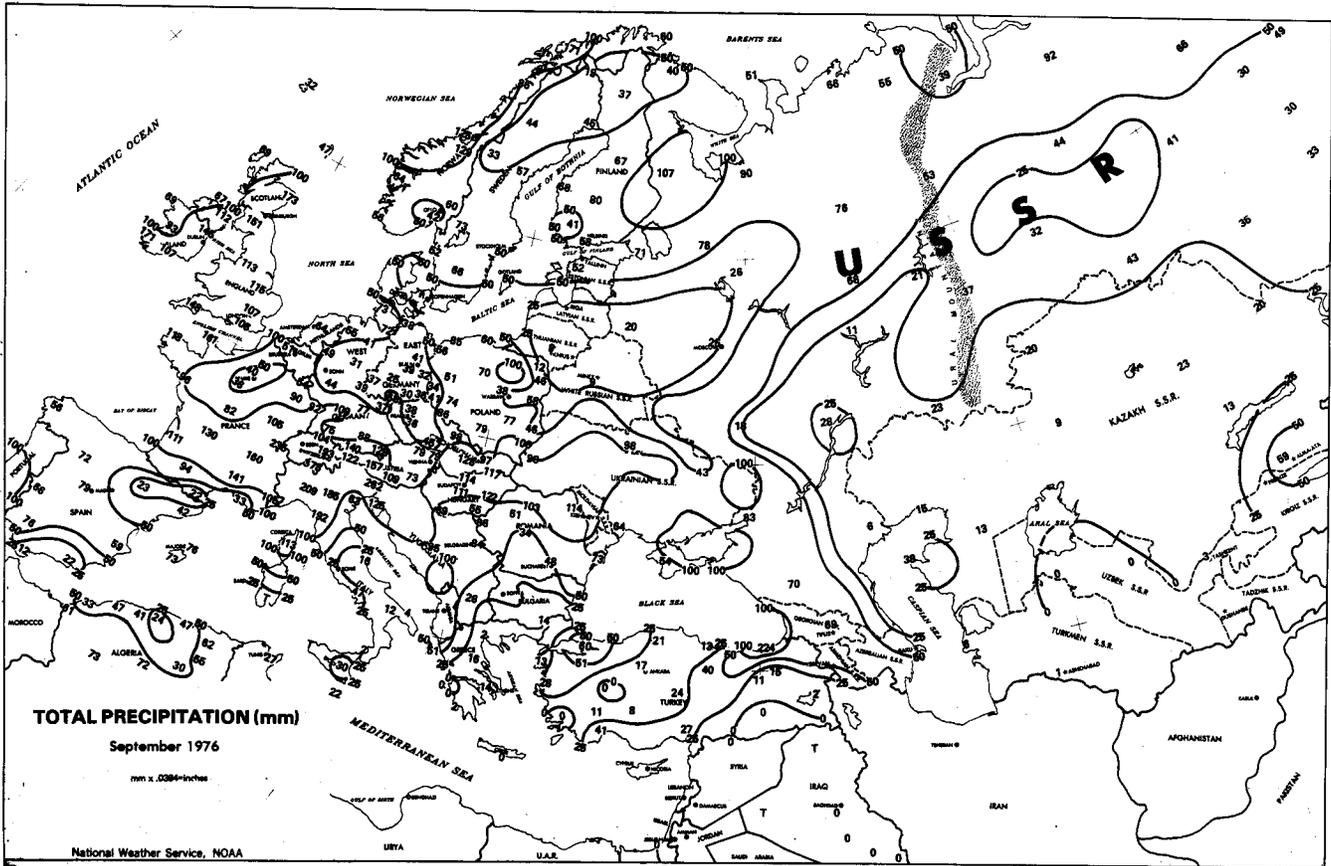
**ASIA.** Several major winter wheat provinces of the Peoples Republic of China (PRC)--Hopeh, Shantung, Shansi--received above normal September rainfall. Below normal rain occurred in other winter wheat provinces of the North China Plain and in Szechwan. On the whole conditions in the winter wheat region in mid-October were favorable. Dry areas persisted in parts of south China, especially in the Yangtze basin and Fukien, which suggested active irrigation of late rice and other crops. Excessive rain fell in Hainan and adjacent areas of the mainland.

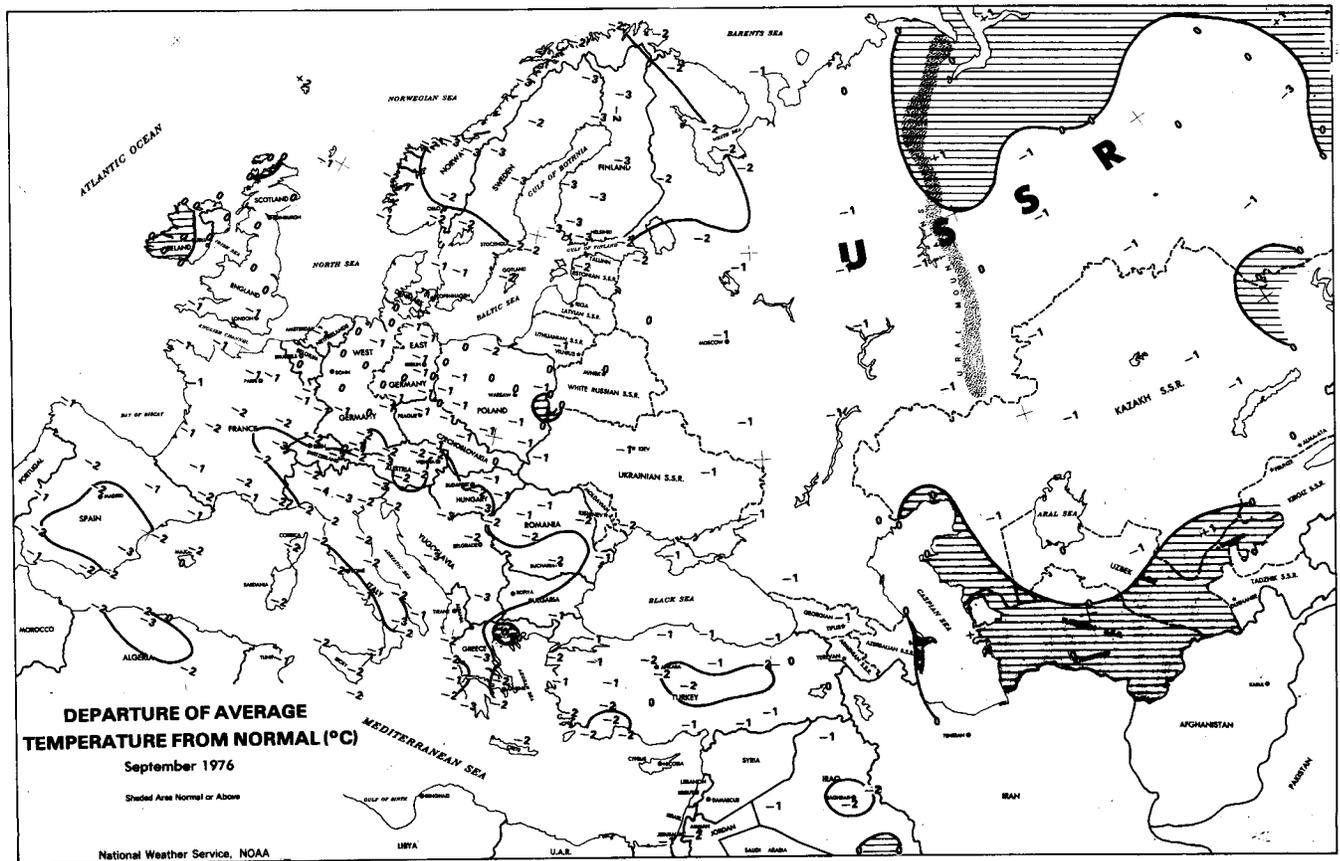
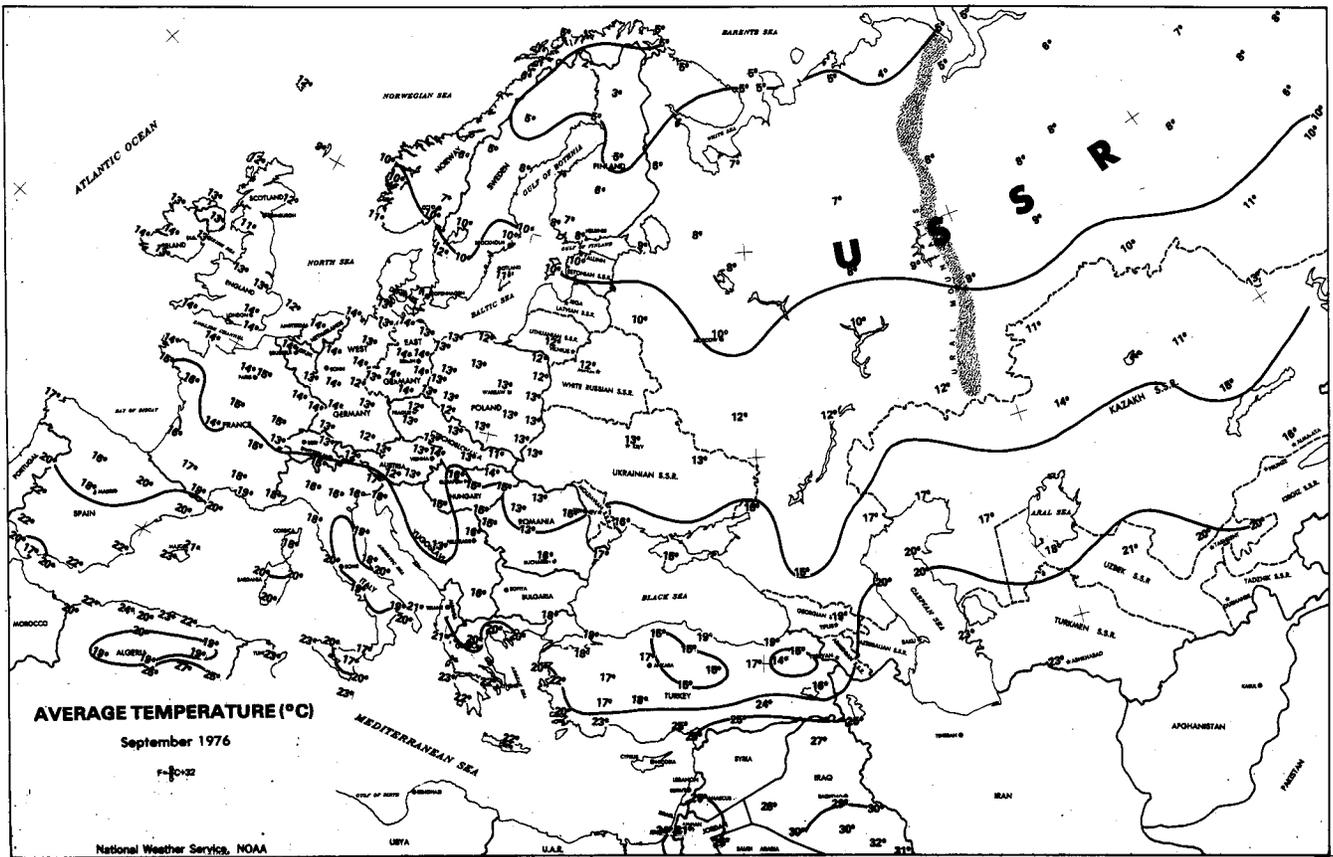
Vigorous in early September, India's southwest monsoon activity fell off dramatically and the monsoon retired for the season by mid month. Middle and Upper reaches of the Ganges received heavy rainfall and some severe flooding while the monsoon functioned... amounts often exceeded normal rainfall; indeed, much below in the south and in Sri Lanka. The abundant rains fell in an extensive part of the winter wheat region tempering somewhat the effect of the premature ending of the monsoon. In October, southeast monsoon rains began in earnest in the south and in Sri Lanka. They provided much needed moisture to this area stressed by many months of drought.

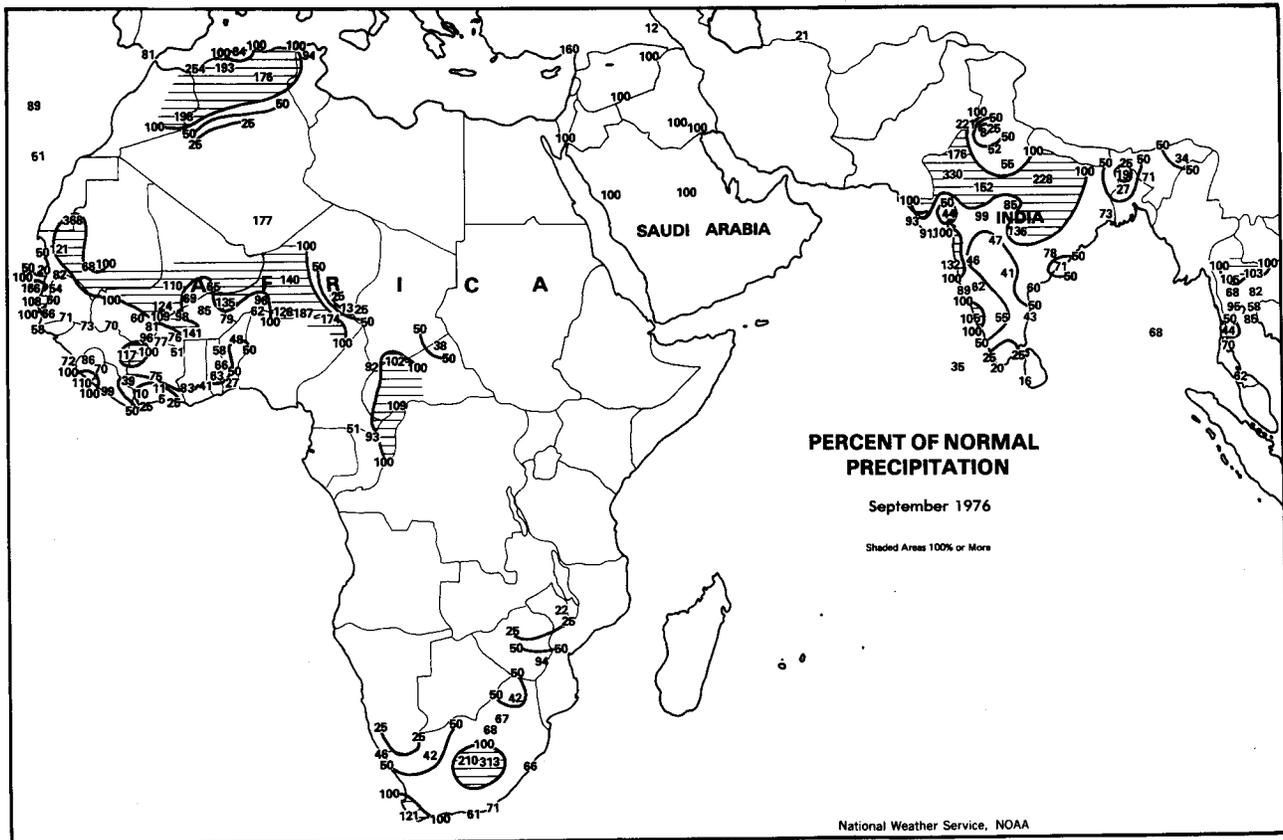
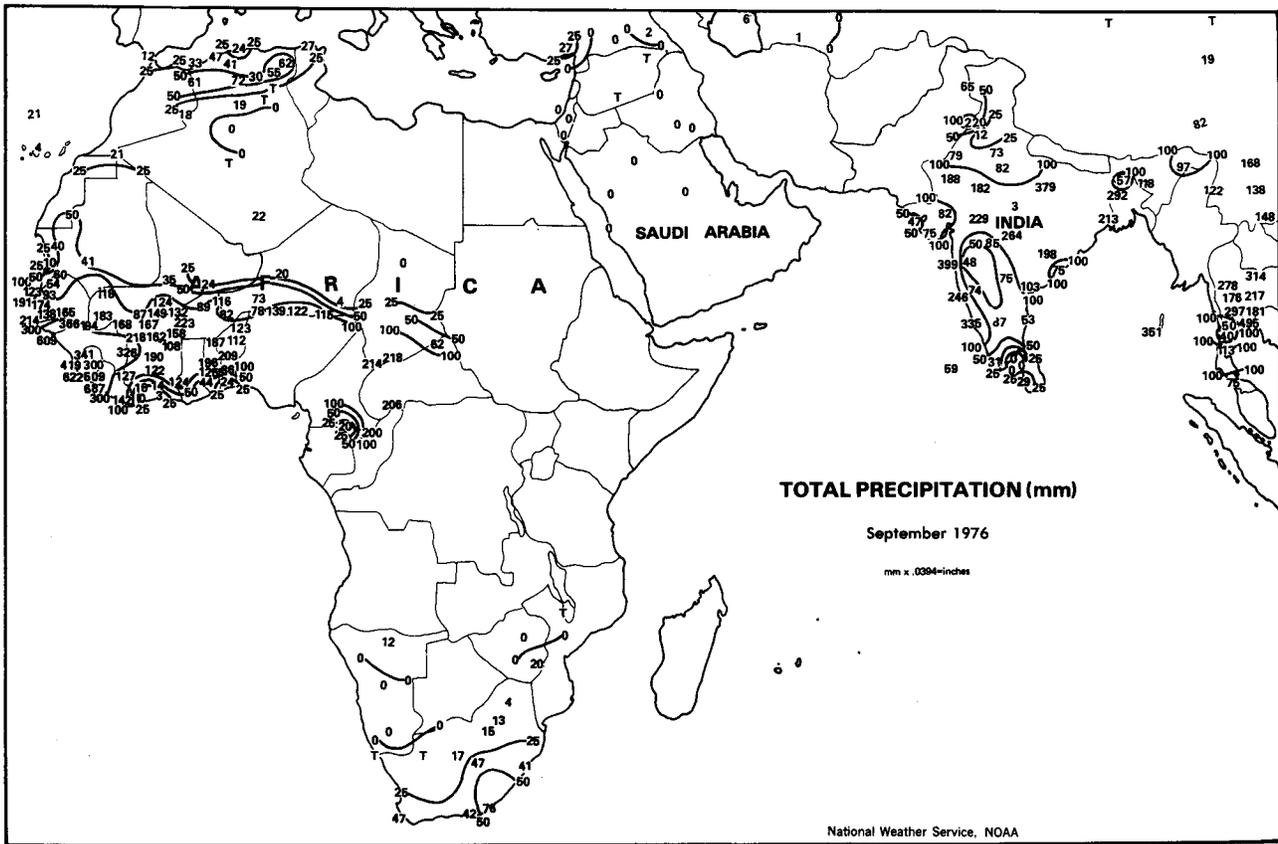
Australia erupted from intense drought as much of the south received substantial spring rains. Improved soil moisture benefitted winter wheat at its critical jointing stage, provided a good start for summer crops, and renewed growth of forage.

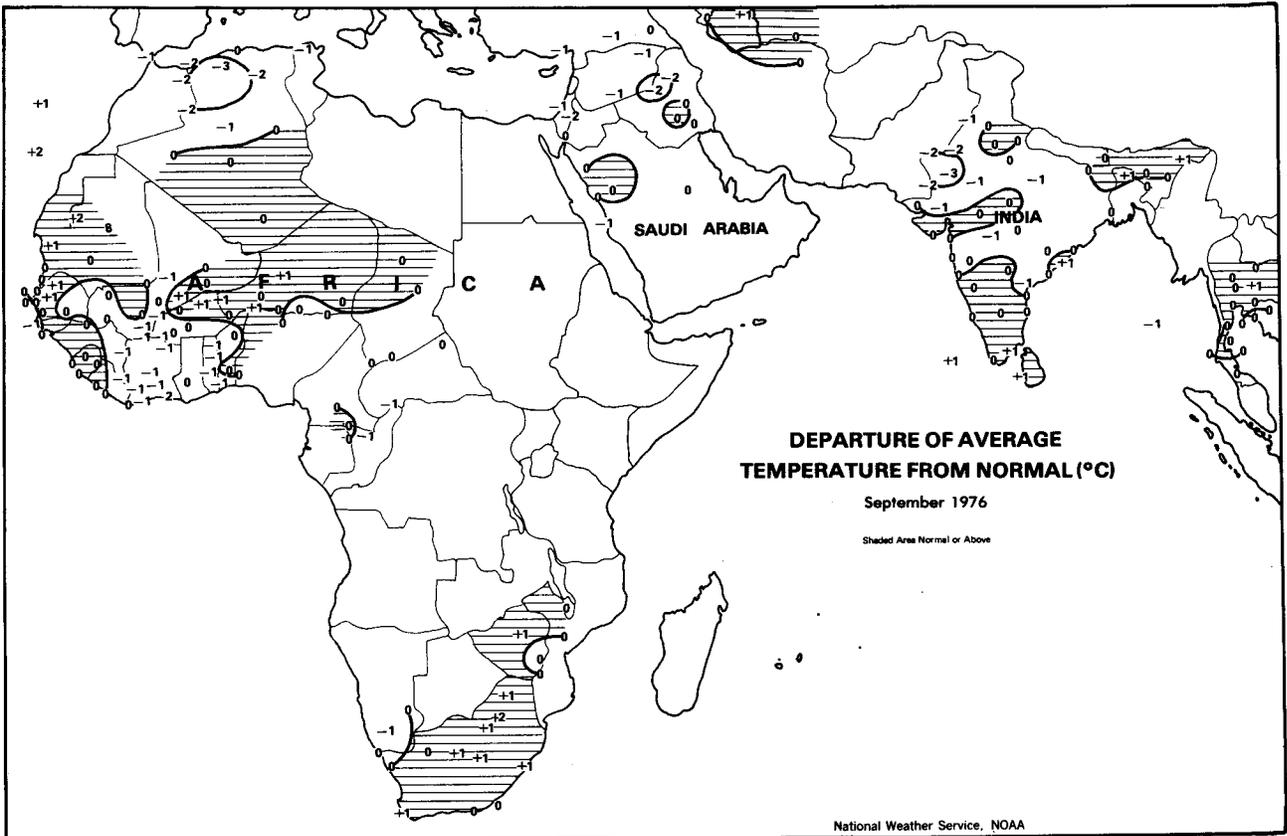
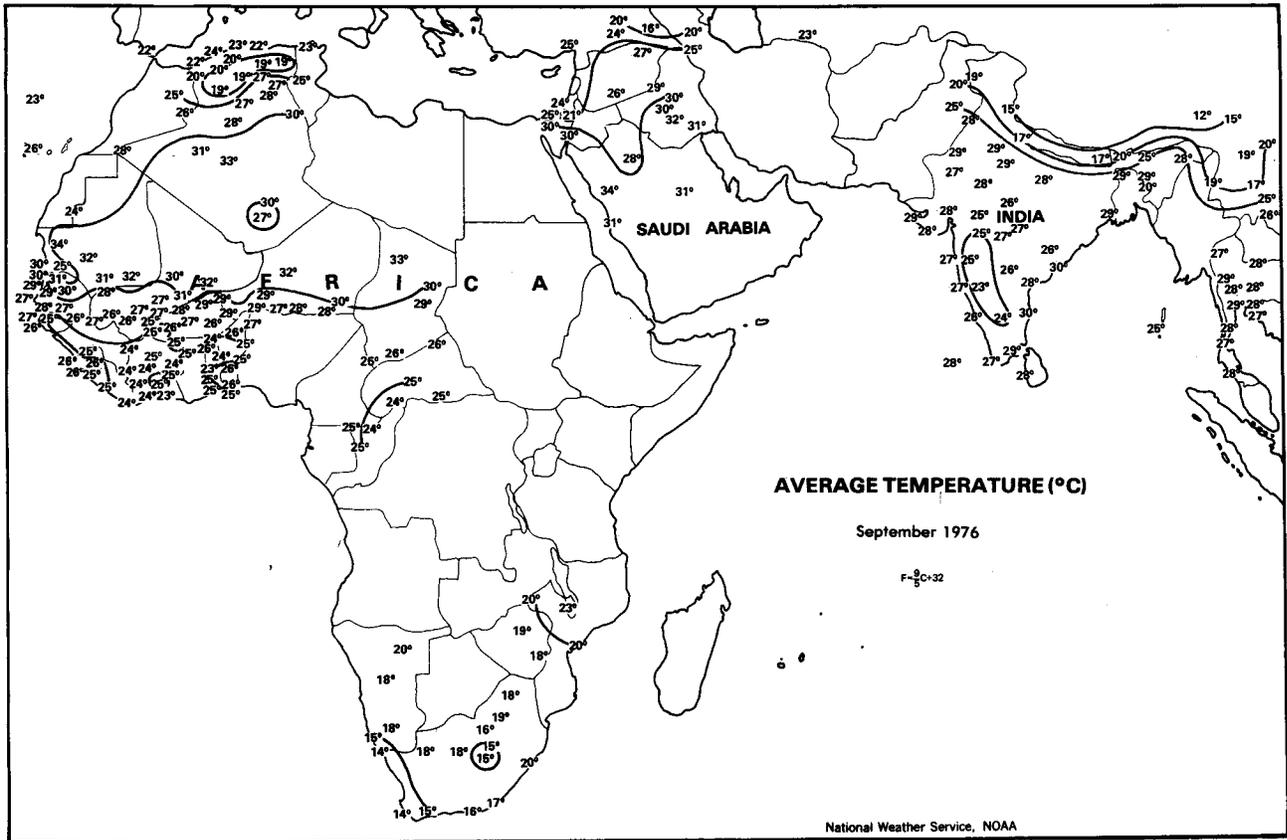
Rain began to fall again in Java, Indonesia after several month of unusually dry weather. Planting became active and forage prospects improved.

**AFRICA.** Early fall rains enhanced conditions for start of winter wheat in Algeria and Tunisia. Rainfall tended to be much less than normal in coastal West Africa. Interior regions received more seasonal amounts after erratic summer rains led to areas of severe crop stress. Although spotty, south African showers were mostly adequate for spring crop needs.

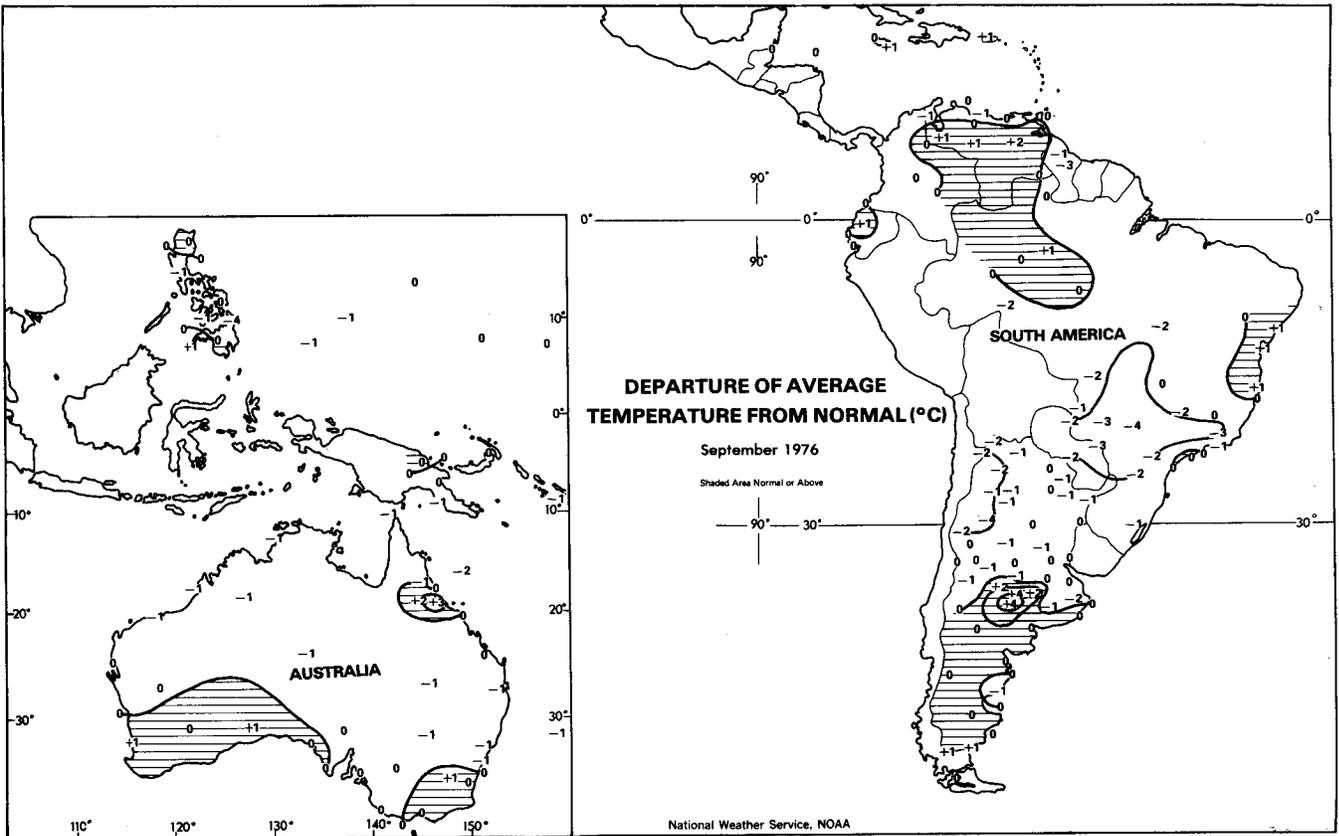
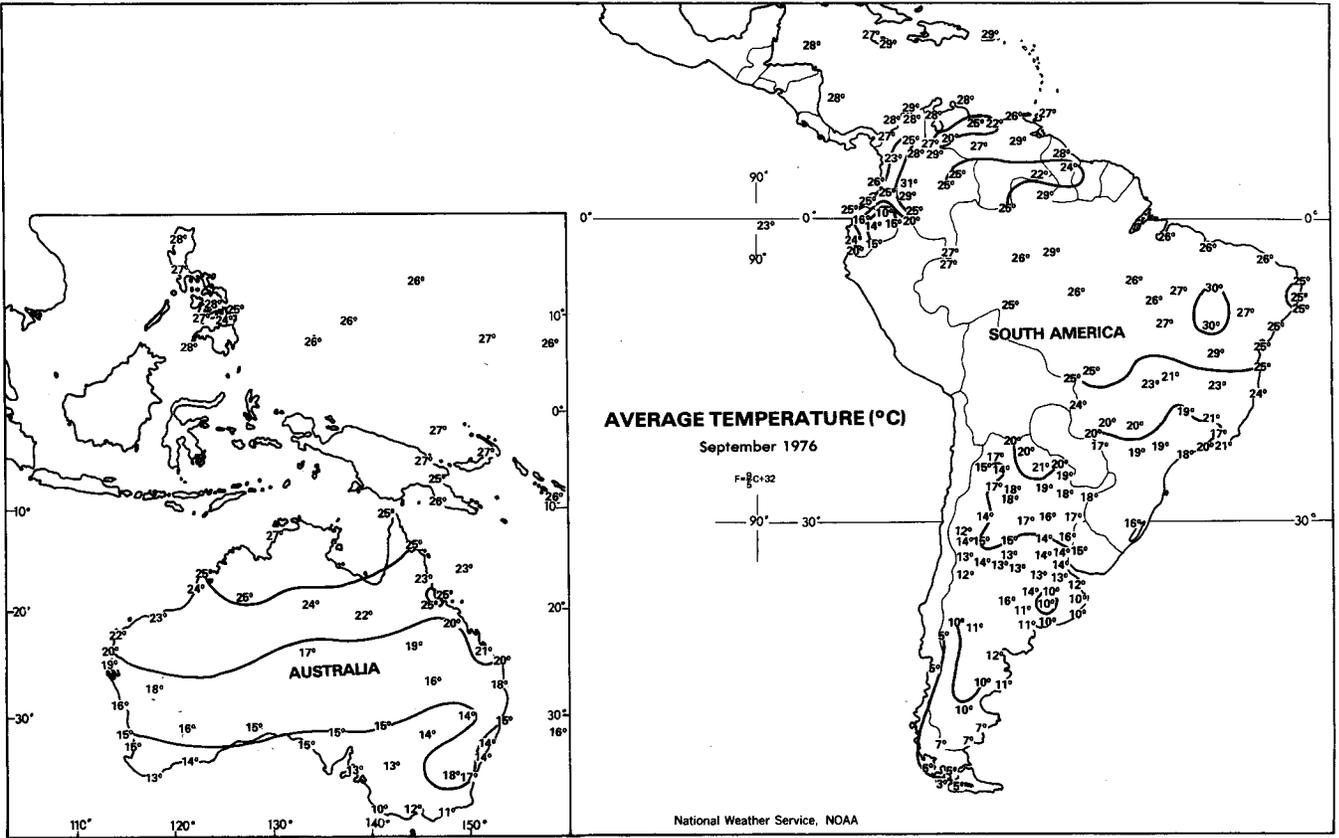


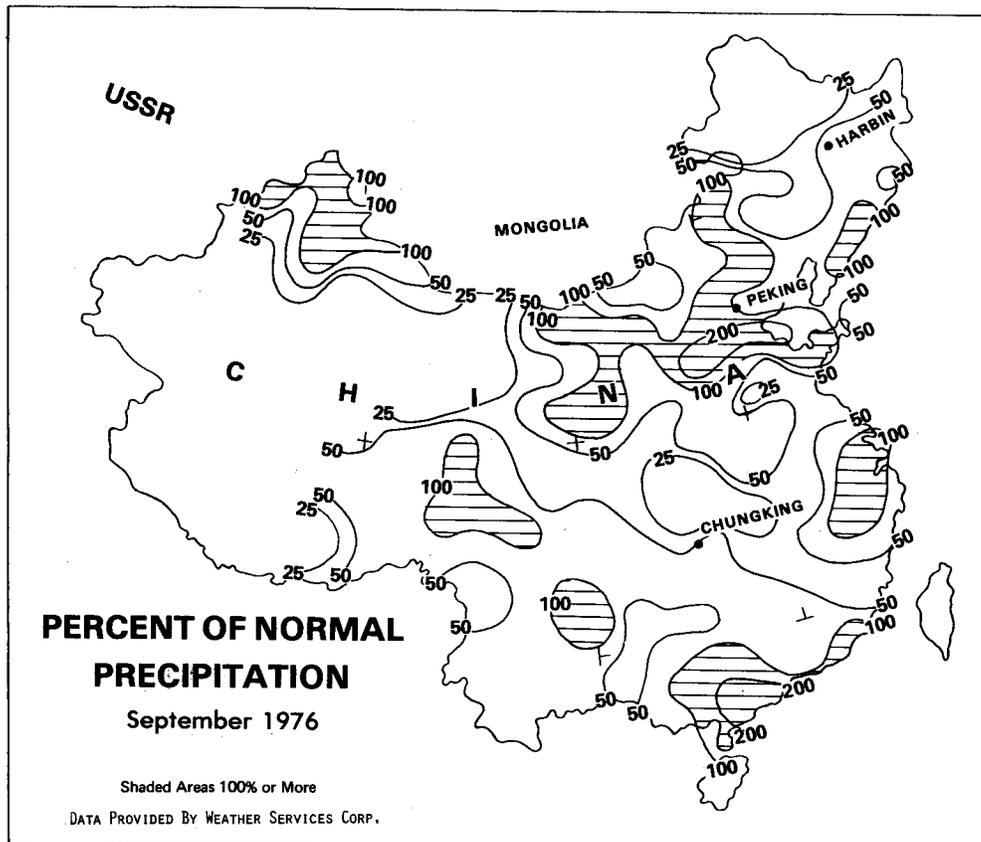
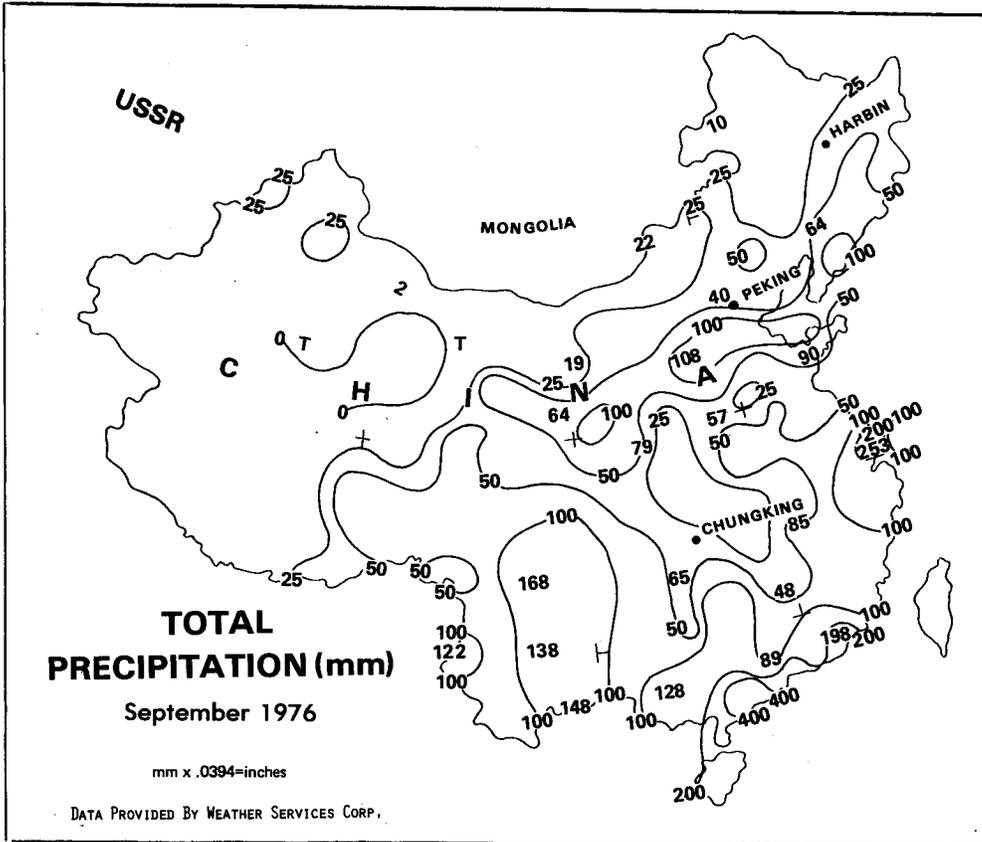


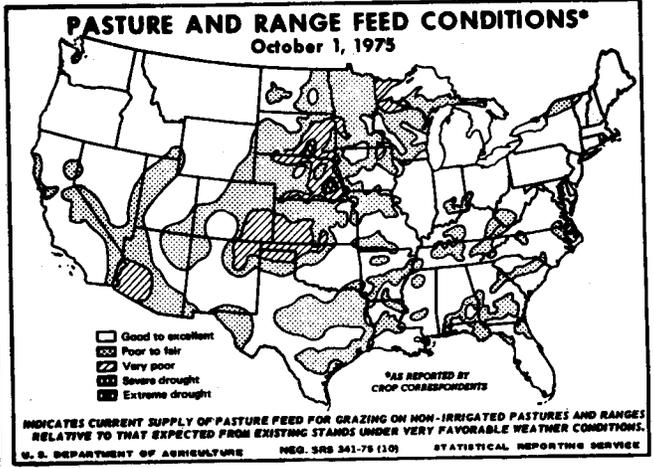
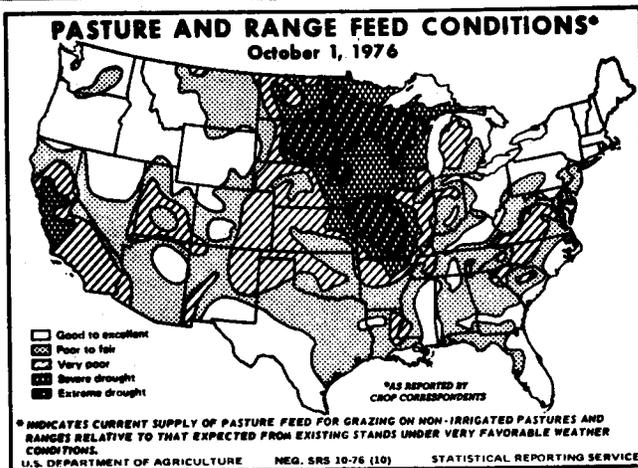
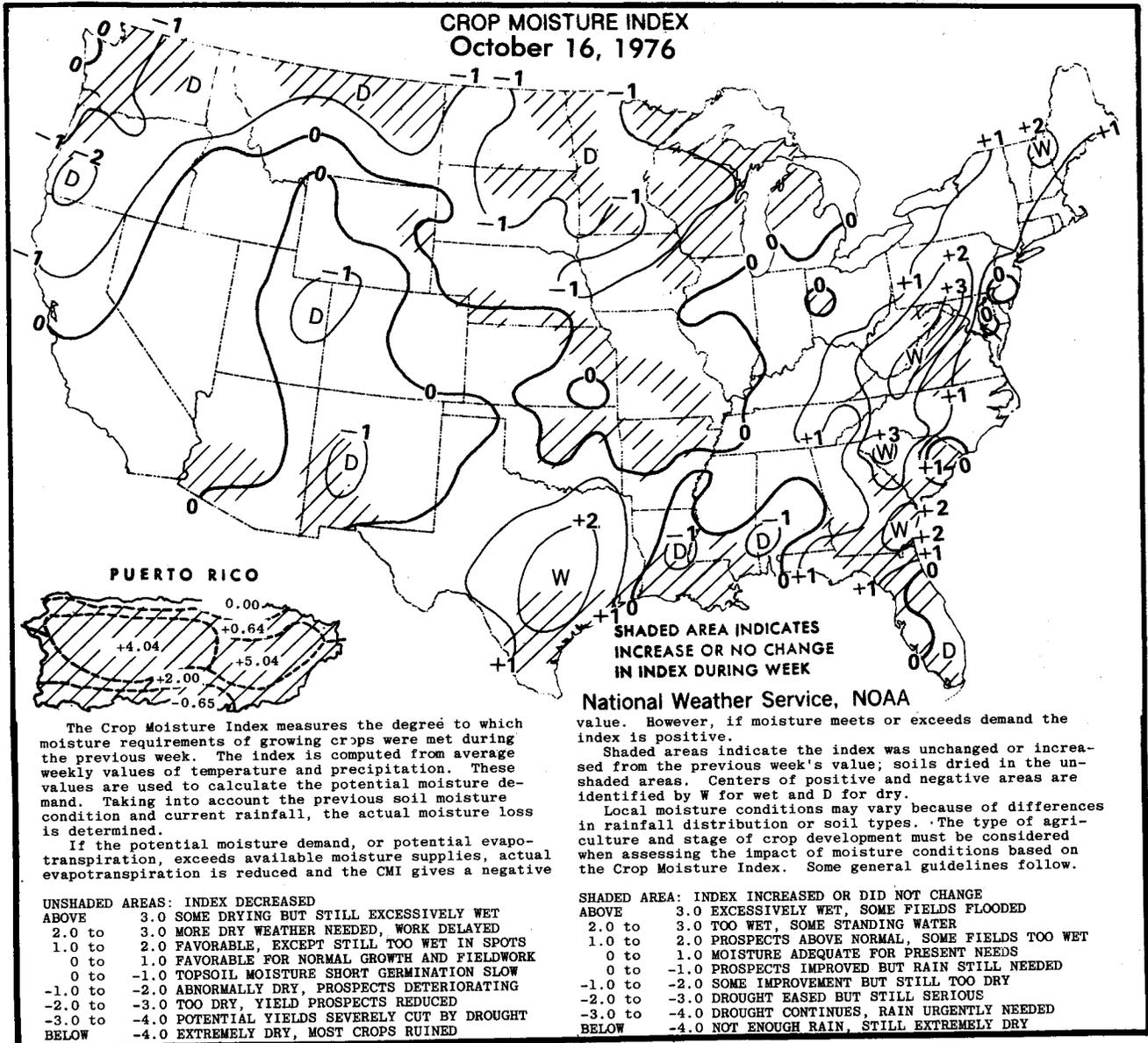














**FIRST CLASS MAIL**

COM 210

**HARVESTING PROGRESS**

Percent of Acreage Harvested  
 (As of October 17)

COTTON			
	1976	1975	Avg.
Ala.	8	7	23
Ark.	22	34	1/
Ga.	8	17	1/
La.	35	15	19
Miss.	26	9	27
Mo.	20	57	36
N. C.	13	10	26
Okla.	0	0	0
S. C.	19	26	30
Tenn.	10	20	30
Tex.	14	25	21
11-States	17	21	22

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

SORGHUM			
	1976	1975	Avg.
Kans.	50	45	25
Mo.	61	72	47
Nebr.	70	80	50
Okla.	37	53	30
S. Dak.	88	83	59
Tex.	77	88	69
6-States	66	72	50

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

CORN			
	1976	1975	Avg.
Ga.	75	57	1/
Ill.	33	48	29
Ind.	25	25	25
Iowa	55	40	24
Kans.	45	60	35
Ky.	40	41	1/
Mich.	25	1/	1/
Minn.	78	46	32
Mo.	64	67	42
Nebr.	40	50	30
N. C.	76	67	68
Ohio	25	20	25
S. Dak.	80	48	45
Wis.	35	30	15
U. S.	48	45	32

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

1/Data not available.

SOYBEANS			
	1976	1975	Avg.
Ala.	16	13	19
Ark.	17	18	1/
Ga.	4	10	1/
Ill.	93	90	67
Ind.	75	65	45
Iowa	100	91	62
Kans.	45	30	35
Ky.	29	28	1/
La.	52	38	34
Mich.	50	1/	1/
Minn.	98	90	70
Miss.	25	18	20
Mo.	54	49	35
Nebr.	75	80	55
N. C.	5	6	1/
Ohio	65	60	55
S. C.	1/	1/	1/
Tenn.	15	15	15
U. S.	60	56	46

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

**PLANTING PROGRESS**

Percent of Acreage Planted  
 (As of October 17)

WINTER WHEAT			
	1976	1975	Avg.
Colo.	98	96	97
Ill.	75	81	72
Kans.	85	85	90
Mont.	100	100	100
Nebr.	100	1/	1/
Ohio	75	70	70
Okla.	85	68	93
S. Dak.	100	100	100
Tex.	74	80	86
U. S.	81	80	90