

# WEEKLY WEATHER AND CROP BULLETIN

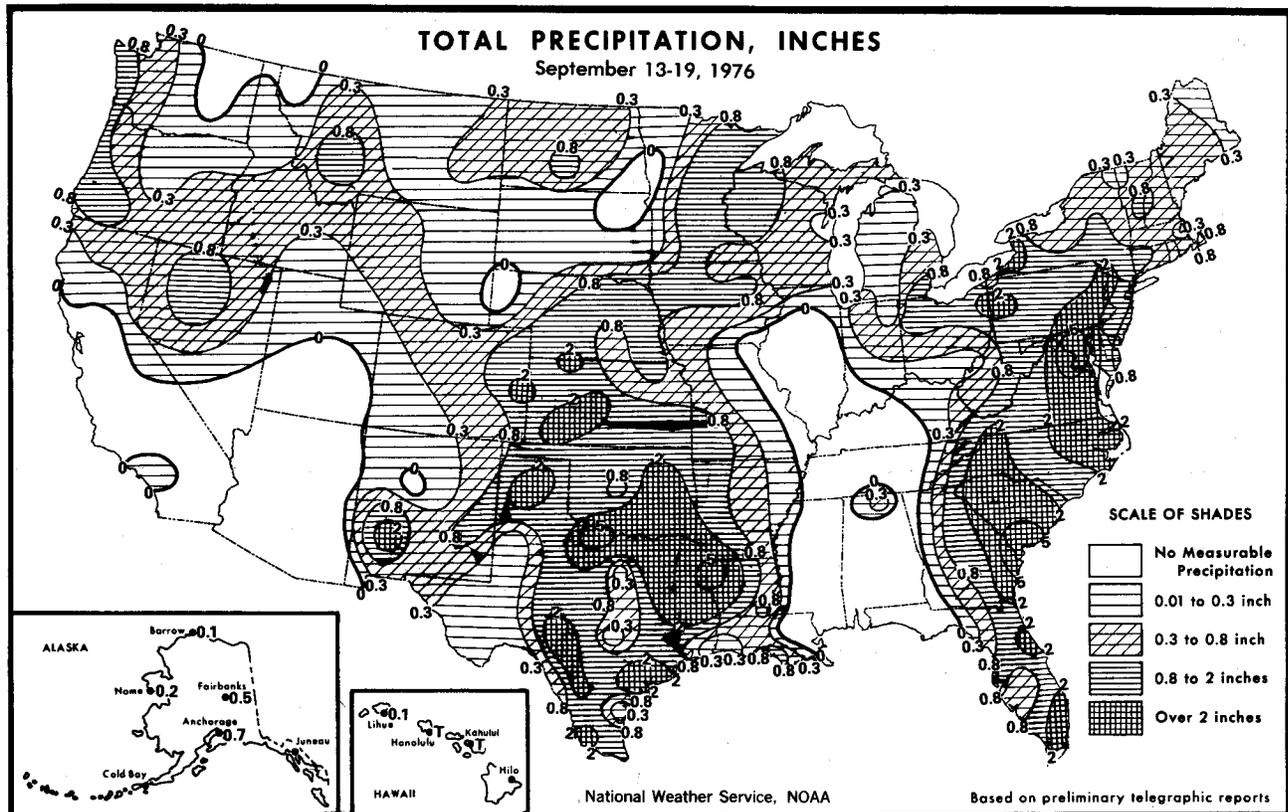
U.S. DEPARTMENT OF COMMERCE  
National Weather Service, NOAA

U.S. DEPARTMENT OF AGRICULTURE  
Statistical Reporting Service

Volume 63, No. 38

Washington, D.C.

Sept. 21, 1976



## National Weather Summary

For the Week of September 13-19

**HIGHLIGHTS:** Rain dominated the weather picture throughout the week. The Washington, D.C. area, Baltimore, Md., the Georgia coastal areas, the Carolinas, and the Texas Pecos Valley experienced flooding from heavy rains. A cold front in the Nation's midsection on Sunday activated freeze warnings for northern and western North Dakota.

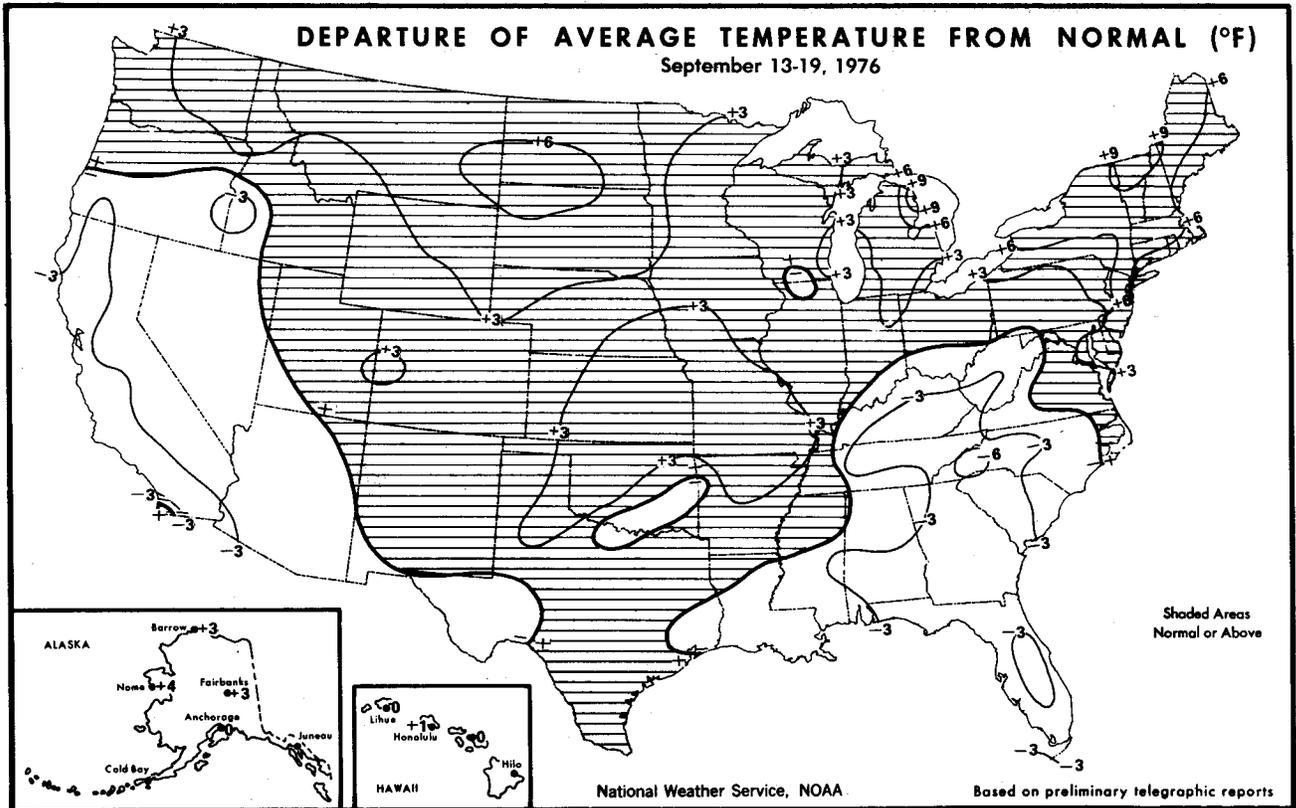
Although rain fell sparingly through the northern Plains, it deluged extreme north central Texas on Monday. Wichita Falls, Texas registered more than 5 inches of rain in a 24-hour period and experienced flooding in some homes and city streets. Most northern Plains States recorded only about one-tenth of an inch of rain, which did little to relieve the drought situation in those areas.

Other showers and thundershowers fell over the lower Mississippi Valley, the central Rockies,

and Florida. A few rainshowers were scattered along the Pacific Northwest coast.

Indian summer continued through portions of Michigan and Wisconsin, with numerous readings in the mid-80's. Seasonably mild temperatures prevailed through the remainder of the Nation, as readings ranged from the 60's through Montana and Minnesota to the 90's in southern Texas and the desert Southwest.

Heavy rains and high winds lashed the southeastern sector of the Nation on Tuesday, as a low pressure center over the northern Georgia coast combined with a strong high pressure system. The low pressure center unleashed more than 4 inches of rain over the Georgia coast and the Carolinas to cause local flooding. Savannah, Ga. reported over 5 inches in a 24-hour period, and Charleston, S.C. listed almost 4 1/2 inches.



The Texas Panhandle and southeastern Colorado noted locally heavy rains, local flooding, funnel clouds, and some hail. Other thundershowers were scattered through the Rockies, the western portions of the Plains States, the middle Mississippi Valley, and Michigan.

Unseasonably warm weather prevailed through New England, as temperatures skyrocketed to the 80 degree range. Philadelphia, Pa. tied its record high for the date at 90°, while Allentown, Pa. and Concord, N.H. scored at 89°.

As the low pressure system drifted northward on Wednesday, heavy rains moved into eastern Virginia, Maryland, the central Appalachians, and extreme eastern Ohio Valley region. A developing storm system caused considerable cloudiness in the western States and some thunderstorms in northern California and northern Nevada.

Other rains fell in southwestern Idaho, northern Utah, the central and southern Rockies, extreme western Texas, the western Dakotas, northeastern Oklahoma, and the lower Mississippi Valley.

A 6-hour period of rain found over 1 1/3 inches in Tulsa, Okla.; about 1 1/2 inches in Richmond, Va.; and over 1 inch at Cape Hatteras, N.C.

Locally heavy rains spread over the Northeast on Thursday and caused much local flood activity. The Washington, D. C. area reported more than 4 inches in a 24-hour period, with some roadways and low-lying areas under water. Other extensive rainfall included over 4 inches in Baltimore, Md.;

about 2 1/2 inches in Allentown, Pa.; and almost 2 inches in Martinsburg, W. Va.

Clouds and some fog covered much of the central and southern Plains States. Clouds enveloped a portion of the northern Rockies and the eastern part of the northern Intermountain Region.

Severe weather included two tornadoes, during the afternoon. One hit near Camp Springs, Md., and the other occurred at Ardmore, Okla. No damage or injuries were reported.

Showers and thundershowers dominated the weather scene Friday, as substantial amounts of rain fell over portions of the northern Atlantic States, northeastern New Mexico, parts of Texas, and the lower Mississippi Valley. Shreveport, La. reported more than 3 inches of rain in a 6-hour period, while Washington, D.C. and Baltimore, Md. received over 3 inches in a 24-hour period.

The weekend brought a few showers and thundershowers across southwestern Texas, the lower Mississippi Valley, the central Plains, southern Florida, and the northern Rockies. The lower Pecos Valley in Texas listed over 5 inches of rain in a 6-hour period, which caused some flood activity throughout the weekend. A strong cold front pushed through the Nation's midsection on Sunday and caused thundershower activity and much cooler temperatures. A freeze warning was issued for northern and western North Dakota, as the pool of cold air moved southeastward.

## National Agricultural Summary

For the Week of September 13-19

**HIGHLIGHTS:** Soil moisture remained short throughout most of the Nation in spite of recent rains in the Plains and the Atlantic Coast States. The only States registering some adequate soil moisture readings included the Gulf Coast States, Ohio, Indiana, Nebraska and States east of the Appalachians. In some States, winter wheat seeding depends on timely rains through the planting season. The corn and soybean harvests just began in the Nation's major producing areas. Cotton development lagged recent years.

**SMALL GRAINS:** Farmers in the northwestern States finished the last remnants of the 1976 small grain harvest. Only a few fields remained uncut in Washington, Oregon, and Idaho.

Farmers planted winter wheat, but dry soil conditions slowed progress in many States. Recent rains in the Plains States brought early seeded fields up to good stands and improved crop prospects. Nationally, planting advanced to 19% complete, slightly behind last year's planting rate of 22% and 8 points behind the 27% average.

In Kansas, only 10% of the crop was in the ground; half the amount last year and average. Oklahoma growers planted 8%, tying last year's rate but falling far behind the 26% average. In Texas, dry soils also held farmers to only 19% complete, lagging 1975's 22% and the 45% average. Nebraska growers reached 40% complete, compared with 60% in 1975 and 45% average. Growers seeding progress in Colorado, Ohio, South Dakota and Illinois equalled the average.

**CORN:** Corn harvest for grain advanced into Minnesota where farmers just started harvesting operations. Harvest of the crop in the driest areas of the western North Central States was farther advanced than the crop grown under better conditions elsewhere. Although underway, the major corn producing States harvest attained less than 5% complete in Illinois, Iowa, Minnesota, Ohio and Indiana. In Nebraska, farmers harvested 5% of the crop. In recent years, none was harvested by this date. Kansas corn producers picked 15% of their crop equalling 1975's pace and surpassing the 10% average. In Illinois, 4% of the crop was harvested compared with 6% last year and 3% average. Harvesting in Missouri reached 18% lagging 1975's 22% but ahead of the 10% average.

**COTTON:** The United States cotton crop rated a fair condition. Defoliation became widespread as growers prepared fields for picking across the Cotton Belt. Most harvest activity occurred in Texas where cool temperatures kept picking to a minimum. Elsewhere, bolls opened at a slower rate than average except in South Carolina and Mississippi.

Wind and rain damaged some of the Arizona cotton crop. The first cotton moved to gins in New Mexico. California cotton growers began defoliating plants.

**SOYBEANS:** Most of the Nation's soybean crop scored a fair to good condition except in Missouri where observers judged the crop to be in poor condition.

Limited harvest operations began in several major producing States, but in Minnesota growers already combined 16% of the crop; 4 times the pace set last year and the average. Only a few scattered fields were harvested in Kansas. Iowa farmers harvested 7% of the soybean crop. Nebraska soybean harvest began. Crop maturity advanced well ahead of last year in most States and ahead of average in all States except Tennessee.

**OTHER CROPS:** The United States sorghum crop was in fair condition. Harvest was underway in the major producing States. Rains slowed the Texas harvest with 57% of the crop combined, behind 1975's 63% but ahead of the 55% average. The Oklahoma harvest reached 8% complete, compared with the 10% average. The Kansas harvest equalled the 1975 rate of 10% but exceeded by double the 5% average. Nebraska growers harvested 10% of the sorghum crop. In previous years, none was harvested at this time.

In Washington, potato growers dug tubers of good size and quality. Maine potato farmers killed vines and prepared for harvest.

Rice harvest in Arkansas reached 14% complete, short of last year's 22%. Louisiana rice growers harvested 85% of the crop compared with 83% in 1975 and 82% average. The Texas first cutting reached completion ahead of recent years. Mississippi harvest attained 9% complete, lagging 1975's 14% and 12% average.

In Georgia, peanut growers threshed 31% of the crop, a slower pace than 1975's 47% and 51% average. Harvest also lagged recent years in Alabama and Texas, but Mississippi's harvest stood at 42% complete, compared with 47% in 1975 and 32% average.

**FRUITS AND NUTS:** Fall apple picking activity increased throughout the United States. Pecan prospects rated poor in Texas and South Carolina, but the Georgia crop scored fair to good. New York growers harvested early variety wine grapes. Tropical Storm Kathleen damaged some California citrus, dates, table and raisin grapes. Early citrus harvest began in Texas and Florida.

**VEGETABLES:** New Jersey and New York vegetable harvests of cabbage, snap beans, sweet corn, tomatoes, onions, cucumbers, greens and squash continued. In Florida, rains delayed some fall vegetable planting. Florida growers sent some beans and squash to market. In Texas, vegetable planting resumed following rains in southern areas. Elsewhere in Texas, various vegetable harvests remained active. In California Kathleen damaged processing tomatoes in the Central Valley and fall plantings in the desert valleys.

**PASTURES AND LIVESTOCK:** Many pastures in the North Central States rated only poor to fair and provided inadequate forage for cattle herds. Rains in many of the Great Plains States helped grasslands but not enough to fully overcome the effects of the drought. Cattle were in good condition, but farmers provided supplemental forage.

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., September 19, 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 . . .	72	-2	T	-1.9	La. Baton Rouge . . .	77	-1	0	-0.9	Youngstown . . .	64	+1	2.8	+2.2
Mobile . . .	76	-2	0	-1.6	Lake Charles . . .	79	0	T	-1.0	OKLA. Okla. City . . .	76	+3	2.8	-1.1
Montgomery . . .	73	-3	0	-1.1	New Orleans . . .	78	-2	0	-1.4	Tulsa . . .	76	+3	2.4	+1.4
ALASKA. Anchorage . . .	48	0	.7	+1	Shreveport . . .	77	0	5.5	+4.7	OREG. Astoria . . .	61	+2	1.2	+6
Barrow . . .	33	+3	.1	0	MAINE. Caribou . . .	60	+6	.1	-7	Burns . . .	57	-1	.5	+4
Fairbanks . . .	48	+3	.5	+3	Portland . . .	63	+4	.5	-7	Medford . . .	61	-4	.9	+8
Juneau . . .	---	---	---	---	MD. Baltimore . . .	71	+2	4.9	+4.2	Pendleton . . .	65	+1	T	-1
Kodiak . . .	---	---	---	---	MASS. Boston . . .	70	+6	.3	-5	Portland . . .	63	+1	.5	+1
Nome . . .	46	+4	.2	-4	Chatham . . .	67	---	1.0	---	Salem . . .	62	0	.6	+3
ARIZ. Flagstaff . . .	56	-2	0	-4	MICH. Alpena . . .	65	+9	.1	-7	PA. Allentown . . .	70	+5	2.8	+2.0
Phoenix . . .	83	-1	0	-1	Detroit . . .	66	+2	.9	+4	Erie . . .	66	+5	.4	-4
Tucson . . .	79	-1	0	-3	Flint . . .	66	+5	.5	-1	Harrisburg . . .	69	+2	2.1	+1.5
Winslow . . .	69	-1	0	-2	Grand Rapids . . .	66	+4	.1	-7	Philadelphia . . .	72	+4	.9	+2
Yuma . . .	83	-4	0	0	Houghton Lake . . .	62	+5	T	-8	Pittsburgh . . .	64	0	1.4	+8
ARK. Fort Smith . . .	73	-1	2.0	+1.2	Lansing . . .	65	+3	.3	-3	Scranton . . .	68	+5	1.4	+8
Little Rock . . .	76	+3	.5	-4	Marquette . . .	59	+2	.6	-2	R.I. Providence . . .	68	+5	.3	-5
CALIF. Bakersfield . . .	74	-3	0	0	Muskegon . . .	62	+1	.1	-7	S.C. Charleston . . .	72	-3	4.4	+3.2
Eureka . . .	55	-2	T	-1	S. Ste. Marie . . .	59	+4	.5	-4	Columbia . . .	71	-4	2.9	+1.9
Fresno . . .	69	-5	0	0	MINN. Duluth . . .	55	+1	1.6	+9	Greenville . . .	68	-4	3.5	+2.6
Los Angeles . . .	69	-4	T	-1	Internatl Falls . . .	56	+3	.6	-2	S.D. Aberdeen . . .	64	+5	T	-4
Red Bluff . . .	73	-3	.3	+2	Minneapolis . . .	62	+2	1.0	+4	Huron . . .	63	+3	.1	-3
San Diego . . .	72	+2	0	-1	Rochester . . .	59	0	.5	-2	Rapid City . . .	65	+5	T	-3
San Francisco . . .	61	-3	0	-1	St. Cloud . . .	59	+2	.9	+3	Sioux Falls . . .	64	+4	.2	-5
Stockton . . .	72	0	0	-1	MISS. Jackson . . .	75	-1	0	-7	TENN. Chattanooga . . .	70	-2	0	-9
COLO. Denver . . .	63	0	.6	+3	Meridian . . .	71	-4	T	-8	Knoxville . . .	67	-5	T	-6
Grand Junction . . .	70	+3	T	-2	MO. Columbia . . .	72	+4	.2	-9	Memphis . . .	75	+1	.1	-6
Pueblo . . .	67	+1	.3	+2	Kansas City . . .	73	+4	.2	-8	Nashville . . .	67	-5	0	-8
CONN. Bridgeport . . .	71	+4	.5	-2	St. Louis . . .	72	+3	T	-7	TEX. Abilene . . .	77	+1	1.5	+1.0
Hartford . . .	70	+7	.9	+1	Springfield . . .	74	+5	1.2	+2	Amarillo . . .	70	0	2.2	+1.8
D.C. Washington . . .	74	+3	5.8	+5.1	MONT. Billings . . .	62	+4	T	-4	Austin . . .	80	+1	.1	-8
FLA. Apalachicola . . .	74	-5	0	-2.2	Glasgow . . .	61	+4	.1	-1	Beaumont . . .	79	0	.2	-1.1
Daytona Beach . . .	76	-4	2.7	+1.0	Great Falls . . .	60	+3	.3	0	Brownsville . . .	82	0	1.0	-3
Ft. Myers . . .	79	-3	.6	-1.5	Havre . . .	61	+4	.1	-2	Corpus Christi . . .	83	+2	.3	-9
Jacksonville . . .	74	-4	1.5	-4	Helena . . .	58	+3	1.2	+1.0	Dallas . . .	---	---	---	---
Key West . . .	83	0	1.3	-5	Kalispell . . .	58	+5	T	-3	Del Rio . . .	80	0	.3	-5
Lakeland . . .	79	-1	T	-1.4	Miles City . . .	65	+6	.3	0	El Paso . . .	73	-1	.4	+1
Miami . . .	79	-3	3.4	+1.3	Missoula . . .	58	+3	.1	-2	Fort Worth . . .	79	-1	.3	-5
Orlando . . .	79	-1	1.7	-1	NEBR. Grand Island . . .	67	+3	.4	-2	Galveston . . .	82	+2	1.5	+1
Tallahassee . . .	74	-4	T	-1.6	Lincoln . . .	68	+3	1.1	+4	Houston . . .	78	-1	.9	-2
Tampa . . .	77	-4	1.7	+2	Norfolk . . .	65	+2	1.0	+4	Lubbock . . .	74	+3	.1	-4
W. Palm Beach . . .	79	-3	4.7	+2.3	N. Platte . . .	63	+1	1.4	+9	Midland . . .	74	-1	.2	-2
GA. Atlanta . . .	68	-4	.2	-6	Omaha . . .	69	+5	.7	0	San Angelo . . .	77	0	1.7	+1.0
Augusta . . .	69	-5	3.2	+2.4	Valentine . . .	65	+4	.6	+3	San Antonio . . .	79	0	.9	0
Macon . . .	73	-3	.9	+2	NEV. Ely . . .	55	-2	.3	+1	Victoria . . .	80	0	2.7	+1.6
Savannah . . .	72	-4	5.6	+4.4	Las Vegas . . .	78	-2	0	-1	Waco . . .	81	+2	.7	-1
HAWAII. Hilo . . .	---	---	---	---	Reno . . .	58	-2	.4	+3	Wichita Falls . . .	76	-1	7.2	+6.5
Honolulu . . .	81	+1	T	-1	Winnemucca . . .	59	0	.9	+8	UTAH. Blanding . . .	64	-1	0	-2
Kahului . . .	78	0	T	-1	N.H. Concord . . .	65	+6	.5	-2	Salt Lake City . . .	66	+1	.1	0
Lihue . . .	79	0	.1	-3	N.J. Atlantic City . . .	71	+4	.4	-3	VT. Burlington . . .	68	+9	.1	-6
IDAHO. Boise . . .	60	-3	.4	+3	Trenton . . .	73	+6	.8	+1	VA. Lynchburg . . .	69	+1	1.5	+7
Lewiston . . .	68	+5	T	-2	N.MEX. Albuquerque . . .	71	+1	T	-2	Norfolk . . .	74	+2	1.9	+1.9
Pocatello . . .	60	+1	.2	+1	Roswell . . .	74	+4	.8	+4	Richmond . . .	72	+2	2.3	+1.5
ILL. Cairo . . .	77	+5	0	-8	N.Y. Albany . . .	68	+6	.6	-2	Roanoke . . .	67	-1	.7	-1
Chicago . . .	68	+2	1	-6	Binghamton . . .	66	+6	1.9	+1.2	WASH. Colville . . .	61	+3	0	-2
Moline . . .	66	+2	T	-9	Buffalo . . .	68	+6	3.0	+2.2	Omak . . .	65	+3	0	-1
Peoria . . .	67	+2	0	-9	New York . . .	74	+6	.9	+2	Quillayute . . .	58	+1	1.1	-1
Rockford . . .	62	-1	.2	-8	Rochester . . .	70	+8	.3	-3	Seattle-Tacoma . . .	61	+3	T	+2
Springfield . . .	69	+2	0	-8	Syracuse . . .	68	+5	.6	0	Spokane . . .	63	+1	T	-2
IND. Evansville . . .	69	0	0	-7	N.C. Asheville . . .	61	-6	2.0	+1.2	Walla Walla . . .	67	+1	T	-2
Ft. Wayne . . .	67	+3	.2	-4	Charlotte . . .	69	-3	2.1	+1.3	Yakima . . .	64	+3	.1	0
Indianapolis . . .	67	+1	.2	-5	Greensboro . . .	67	-3	.8	0	W. Va. Beckley . . .	61	-2	1.2	+4
South Bend . . .	66	+2	.6	-1	Hatteras . . .	75	+1	3.2	+1.9	Charleston . . .	65	-3	.5	-2
IOWA. Burlington . . .	65	0	0	-9	Raleigh . . .	71	0	2.0	+1.1	Huntington . . .	66	-2	.3	-4
Des Moines . . .	67	+3	.4	-3	Wilmington . . .	75	0	.8	-6	Parkersburg . . .	67	0	T	-7
Dubuque . . .	62	+1	.6	-5	N.DAK. Bismarck . . .	63	+6	1.4	+1.1	WIS. Green Bay . . .	61	+2	.2	-6
Sioux City . . .	65	+2	1.4	+7	Fargo . . .	61	+4	0	-4	La Crosse . . .	61	0	.4	-4
KANS. Concordia . . .	71	+4	.6	-2	Williston . . .	61	+5	.6	+3	Madison . . .	59	0	.4	-4
Dodge City . . .	74	+5	2.3	+1.9	OHIO. Akron-Canton . . .	65	+1	1.0	+4	Milwaukee . . .	66	+5	.4	-3
Goodland . . .	64	0	1.7	+1.4	Cincinnati . . .	67	-1	T	-6	WYO. Casper . . .	61	+3	.2	0
Topeka . . .	73	+5	.1	-7	Cleveland . . .	66	+2	1.1	+5	Cheyenne . . .	58	0	.1	-1
Wichita . . .	73	+3	1.1	+2	Columbus . . .	65	0	.4	-2	Lander . . .	59	+1	.4	+1
LEX. Lexington . . .	66	-3	T	-4	Dayton . . .	66	0	.4	-2	Sheridan . . .	59	+2	.1	-2
Louisville . . .	69	0	T	-7	Toledo . . .	66	+2	1.4	+8	P.R. San Juan . . .	84	+3	2.3	+9

Based on 1941-70 Normals

Publication of the Weekly Weather and Crop Bulletin began in 1872 as the Weekly Weather Chronicle. It is now issued under general authority of the Act of January 12, 1895 (44USC 213), 53 Cong., 3d Session. Contents of the Bulletin may be reprinted freely, with proper credit. Standard copy for the Bulletin is prepared by R.E. Felch, L.M. Denny, O.W. Byrd National Weather Service, NOAA.

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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:** Temperatures 3° below normal.

Fieldwork: 6.0 days suitable. Soil moisture short to adequate. Major activities included harvesting corn, peanuts and hay, applying insecticides and preparing machinery for harvesting. Cotton fair to good 15% with bolls open, 18% 1975, and 25% average. Corn good condition 38% harvested, 28% 1975, 19% average. Soybeans good condition, 20% mature, 13% 1975, 14% average. Peanuts fair to good condition 29% combined, 52% 1975, 49% average. Pastures adequate. Sweet-potato harvest underway.

**ALASKA:** Tanana Valley warm and dry. Temperatures above normal but frosts most nights over eastern half. Moderate rain western valley near end of week. Accumulations below normal. Matanuska Valley cloudy, wet. Light rain from time to time; totals below normal. Temperatures near normal. Kenai Peninsula cloudy and wet with southern part receiving above normal rainfall and north slightly below normal rainfall. Temperatures below normal. Kodiak Island wet with precipitation totals well above normal. Temperatures near seasonal levels.

Harvest delayed by scattered rain showers. Ground moisture supply very short in Matanuska and Tanana Valleys. Hay harvest about 80% completed. Grain and potato harvests 60% or more completed.

**ARIZONA:** Dry with light showers southeast. Temperatures 1 to 6° below normal.

Cotton good progress, locally fields damaged by wind, rain. Extent of loss not yet known. Final irrigations applied to rapidly maturing fields, central areas. Sorghum all stages development. Harvesting mature fields, central area. Preparation next year's wheat fields started. New plantings sugarbeets good progress southwest. Alfalfa hay baling slow, southwest. Renovation, preparations new plantings continue. Earlier storm caused crusting, erosion lettuce, cabbage, broccoli beds. Some replanting necessary. Limited lemon, persian limes picked. Storm Yuma area, fruit loss lemons, oranges, grapefruit. Desert ranges mostly poor. Pastures, livestock good condition higher elevations. Stock water supplies adequate, except desert. Grain, hay supplies sufficient.

**ARKANSAS:** Temperatures near normal east and central to below normal elsewhere. Extremes: 93 and 43°. Rainfall heavy southwest, spotty elsewhere.

Early soybean varieties beginning to yellow. Some fields not worth harvesting. Harvest underway. Cotton mostly fair. Open bolls 22% of acreage, 23% last year. Defoliation begun. Rice harvest 14% complete, 22% year ago. Corn harvest continued. Sorghum harvest 46% complete. Waiting for additional moisture before planting wheat and oats. Hay condition deteriorated. Pastures short, need rain.

**CALIFORNIA:** Temperatures averaged normal along the south coast to near six degrees below normal in the northern mountains and Sierras. Tropical Storm Kathleen brought heavy rains early with little or no rain falling otherwise.

Rain, wind damaged southeast desert cotton and

sugarbeets. Rice harvest Sacramento Valley. Cotton good, some wilt, starting defoliation. Sugarbeet harvest increasing. Dry bean, milo corn harvest. Alfalfa hay cutting; some rain damage. Tropical Storm Kathleen damaged some citrus, dates, figs, table and raisin grapes. Almond harvest well underway. Desert lemon harvest begun. Peach harvest virtually complete. Kathleen injured Central Valley processing tomato harvest and fall plantings in the desert valleys. Replanting of carrot, lettuce, broccoli, cauliflower, and some melon acreages. Poor range conditions continue. Livestock water supplies improved but remain short.

**COLORADO:** Winter wheat seeding 18%; equal average, 22% 1975. Moisture needed for germination. Spring barley, oat harvest 50% San Luis Valley, complete elsewhere. Sorghum fair to good condition, 92% headed. Corn condition good, 71% dough, 81% 1975; 33% dented, 47% 1975. Cutting corn silage. Dry bean windrowing 22%, average 17%; combining 8%, average 5%. Fall potato condition good. Summer potato harvest slow. Alfalfa condition good; second cutting 83%; third cutting 36%. Soil moisture very short to short, adequate mountains. Range and pasture poor to fair east, fair to good west slope. Livestock good condition. Supplemental feeding east central. Peach harvest past peak, pears nearly complete. Onion harvest continued.

**FLORIDA:** Clouds and cool air dropping temperatures 5° below normal in extreme north. Rainfall generally less than 2.00 in.

Soil moisture variable but adequate. Dry spots in Panhandle, northwest and central. Few wet areas south and along east coast. Corn harvest active all areas, about complete in western Panhandle. Peanut harvest full swing. Soybeans, cotton fair to good condition. Sugarcane good condition. Cutting for seed continues. Pecan prospects very poor. Pastures good condition. Lowland pastures remain under water some locations. Land preparation begun for temporary fall, winter pastures. Cattle, calves mostly good condition. Citrus grove condition excellent, very little rain. Few started irrigating, fruit sizes look good. Harvest starting slowly. Planting vegetables for fall harvest continues. Some delay due to heavy rainfall. Moderate to heavy tomato spot resetting in low lying areas. Spray programs very active. Crops generally progressing favorably. Bloom buds abundant tomatoes, eggplant. Light harvest underway pole beans, squash northern areas.

**GEORGIA:** Temperatures 5 to 9° below normal. Very cool 11th and 12th with frost northern mountains 11th. Slow warming trend. Rains 13th and 14th; up to 6.00 in. near coast, decreased westward to 1.00 in. midstate and little or none west.

Soil moisture extremely variable, northern third very short to short, southern third adequate to excessive, others mixed. Fieldwork: 4.0 days suitable. Cotton mostly fair to good, 28% open. Peanuts mostly fair to good, 43% dug, 31% threshed, last year 61% and 47%, average 66% and 51%. Corn fair to mostly good; 45% harvested, last year 30%, average 16%. Soybean condition fair to good, more moisture needed northern half.

Hay crop condition fair to good. Pastures mostly fair to good. Armyworms troublesome. Apples fair to mostly good, harvest very active. Pecans mostly fair to good. Cattle fair to mostly good. Hogs good.

HAWAII: Hot and humid. Most areas dry. Showers light mainly higher elevation.

Heavy irrigation continuing. Vegetable supplies adequate. Banana supplies heavy. Papaya supplies light. Sugar harvesting steady. Pineapple harvesting down. Pastures leeward dry, windward fair to good.

IDAHO: Temperatures about normal. Extremes: 90 and 29°.

Small grain harvest near completion. Harvest 1976, 1975: Winter wheat 90%, 90%; spring wheat 85%, 85%; barley 80%, 80%; dry beans swathed 45%, 75%, combined 15%, 25%; winter wheat planted 25%, 25%, emerged 10%, 25%; barley planted 10%, 25%.

ILLINOIS: Temperatures normal northwest and southeast, 2° above normal elsewhere. Precipitation very little west and central, 0.20 in. to 1.50 in. east and south.

Corn 1% excellent, 53% good, 40% fair, 6% poor; 82% mature, 95% 1975, 77% average; 4% harvested, 6% 1975, 3% average. Soybeans 1% excellent, 53% good, 42% fair, 4% poor; 91% turning yellow, 100% 1975, 79% average; 70% shedding leaves, 74% 1975, 45% average; 14% combined, 14% 1975, 7% average. Third crop alfalfa hay good to fair; 93% cut, 86% 1975, 84% average. 1977 winter wheat 5% seeded, 5% 1975, 6% average. Pastures fair to poor. Soil moisture short. Fieldwork: 6.8 days suitable.

INDIANA: Showers 0.50 to 1.00 in. north, less than 0.50 in. south, none in some southern areas. Rainfall last 4 weeks 1.00 to 1.50 in. below normal. Temperatures ranged from 41 to 88°. Sunshine 62% of possible north, 83% south.

Fieldwork: 6 days suitable. Topsoil moisture mostly short to adequate, subsoil moisture mostly short. Corn 55% mature, 1975 35%. Corn 95% dented. Soybeans 40% shedding leaves, 1975 55%. Soybeans 20% matured, 5% harvested. Wheat land 60% plowed. Rye 15% seeded, barley 10% seeded. Tobacco 75% harvested, 1975 55%, average 50%. Pastures unchanged, rated mostly poor to fair.

IOWA: Showers north and west 13th and more general rain over all but southeast 19th eased drought and restored some topsoil moisture to very dry north and west. Temperatures varied from near normal east to 5° above normal southwest.

Continued dry conditions. Fieldwork: 7 days suitable. Corn and soybean crops continue rapid drying and maturing. Harvest of crops well underway in dry west central and northwest elsewhere harvest beginning. Beans poorly filled and corn light in weight causing yields to be highly variable. Continued cutting of silage. Corn condition 3% excellent, 29% good, 45% fair, 23% poor. All corn in or past dent. Corn in mature stage 86%. Soybean condition 1% excellent, 25% good, 55% fair, 19% poor. Percent of soybeans with leaves turning near complete; leaves shedding 83%, 52% 1975, 37% average; safe from frost 65%. Soybeans harvested 7%. Topsoil and subsoil moisture short. Pastures very short; hay regrowth very slow. Livestock in good condition with supplemental feeding.

KANSAS: Badly needed moisture fell, generally 1.00 to more than 2.00 in. west, scattered east, ranged from 0.50 to 1.00 in. Temperatures from 67° northwest to low 70's elsewhere, about 4 to 6° above normal.

Rain in western half should help wheat seeding prospects. Wheat 10% planted, 20% last year and average. Corn 90% dented, 95% last year, 85% average; 55% mature, 60% last year and average; 15% harvested, same as last year, 10% average. Sorghum 75% turning color, 70% last year, 65% average; 30% mature, 35% last year, 25% average; 10% harvested, same as last year, 5% average. Soybeans only a few scattered fields harvested. Alfalfa fourth cutting 50% harvested, 25% last year, 35% average. Alfalfa seeding 60% complete, 80% last year, 75% average.

KENTUCKY: Temperatures near seasonal normal. Scattered showers midweek and week's end producing amounts less than 0.25 in.

Fieldwork: 7.0 days favorable. Soil moisture short to adequate. Main activities included tobacco, corn and hay harvest, fall plowing and wheat seeding. Burley tobacco 87% cut, 74% last week, 60% average. Dark tobaccos 86% cut. Houseburn very light. Corn 46% mature and 8% harvested, last year 33% mature, average 28% mature. Soybeans maturing slowly, 49% leaves green, 27% turning yellow, 14% shedding leaves, 8% mature but not harvested and 2% harvested. Fall plowing 20% complete and wheat 10% seeded. Pastures deteriorated somewhat to 87% of normal.

LOUISIANA: Temperatures above normal. Extremes: 94 and 58°. Rainfall 2.00 to 6.00 in. northwest; light to none elsewhere.

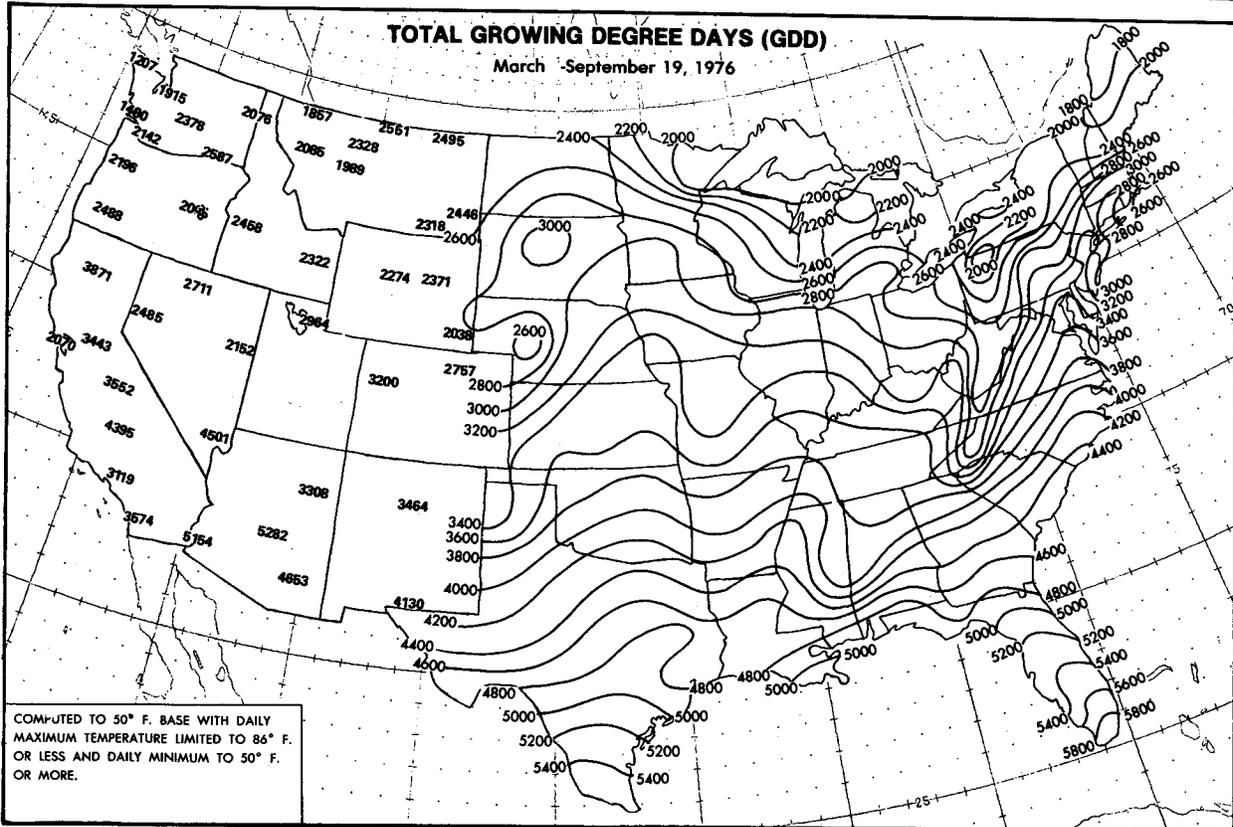
Soil moisture short. Fieldwork: 6 days suitable. Cotton mostly fair; open bolls 29%, 21% last year. Rice 94% ripe; 85% harvested, 83% last year, 82% average. Soybeans fair to good; moisture shortage forcing early maturity; 46% turning color, 26% dropping leaves, harvest early varieties underway. Sugarcane fair to good; 69% planted, 20% last year. Corn harvest 67%, 64% year ago. Sorghum 78% ripe, 47% harvested, 19% last year. Sweetpotatoes fair to good, 43% dug, 35% last year. Hay, pastures fair. Livestock fair to good.

MARYLAND & DELAWARE: Temperatures normal; highs, mid 80's; lows around 60's. Mountain areas 10° cooler. Precipitation midweek moderate to heavy in south and north central with lighter amounts in west and Eastern Shore Maryland and Delaware.

Corn 80% mature; 75% 1975, 67% average. Corn for silage 75% harvested; 70% 1975, 61% average. Corn for grain 17% harvested, about average. Soybeans 40% yellowed; 30% 1975, 24% average; 10% shed leaves, slightly ahead of average. Tobacco 90% harvested; 80% 1975, 87% average. Fall apple harvest in full swing. Seeding small grains started.

MICHIGAN: Temperatures ranged from 90 to 29°. Precipitation ranged from over 0.60 in. to 0.07 in.

Soil moisture short. Corn 25% mature. Silage 45% cut. Dry beans 55% harvested. Soybeans advancing. Winter wheat 5% planted. Potatoes 35% dug. Third cutting hay ahead of normal. Pasture feed supplies short. McIntosh 30% picked; other fall apples started. Pear and plum harvesting ahead of normal. Cabbage, carrots, celery, and onions about 50% harvested. Cauliflower 15% cut.



**MINNESOTA:** Temperatures near normal east to 4° above normal west. Extremes: 90 and 32°. Precipitation a little above normal central and south central with 1.00 in. to over 2.00 in. Below normal precipitation elsewhere except normal or above north shore of Lake Superior. Precipitation 0.20 in. or less west central and extreme west.

Harvesting fall crops gaining momentum except corn. Most corn safe from frost, scattered fields combined. Silage cutting nearing completion west. Winter wheat, rye seeding delayed by moisture shortage. Sugarbeet lifting beginning. Sweet corn pack completed. Corn 84% mature, 1975 43%, normal 54%; silage 88% cut, 1975 57%, normal 49%. Soybeans 16% combined, 1975 4%, normal 4%. Seeded: Winter wheat 48%, 1975 85%, normal 80%; rye 40%, 1975 82%, normal 78%. Potatoes 36% dug, 1975 25%, normal 28%. Sugarbeets 2% lifted, 1975 0%, normal 4%. Flax 89% combined 1975 64%, normal 70%.

**MISSISSIPPI:** Temperatures 7° subnormal. Extremes: 42 and 94°.

Soil moisture short to adequate. Fieldwork: 6.0 days suitable. Cotton 50% open bolls, 36% 1975, 28% average. Soybeans 59% turning, 51% 1975; 25% shedding, 25% 1975; 5% mature, 7% 1975. Rice 50% ripe, 58% 1975; 9% harvested, 14% 1975, 12% average. Corn 93% mature, 68% 1975; 20% harvested, 13% 1975, 17% average. Sorghums 75% ripe, 61% 1975; 40% harvested, 30% 1975, 39% average. Hay crops 85% harvested, 77% 1975, 78% average. Peanuts 42% harvested, 47% 1975, 32% average. Sweetpotatoes 25% harvested, 43% 1975, 37% average. Winter wheat 14% planted, 11% 1975. Oats 10% planted, 12% 1975. Most crops in fair condition.

**MISSOURI:** Temperatures 1° below normal in the Bootheel, normal to 5° above elsewhere. Precipitation 0.25 in. in the southwest with no precipitation elsewhere.

Fieldwork: 6.2 days suitable. Soybeans 40% mature, 17% 1975; 4% soybeans harvested, 5% 1975, 4% normal. Corn 96% dent, 98% 1975, 93% normal. Corn 59% mature, 1975 82%; 18% harvested, 22% 1975, 10% normal. Grain sorghum 66% mature, 69% 1975; 13% grain sorghum harvested, 21% 1975, 9% normal. Cotton 14% bolls open, 65% 1975, 31% normal. Alfalfa hay 92% complete, 1975 95%, 91% normal. Condition of soybeans mostly poor. Condition of cotton mostly fair. Condition of pastures poor.

**MONTANA:** Cool, showery weather 17th interrupted the mild, mostly dry week. Scattered showers and thunderstorms most frequent south and east. Temperatures 3 to 5° above normal with scattered frost common.

Winter wheat seeding progress good. About 50% complete, ahead of last year and normal. Germination good except parts of north central only fair. Grasshopper control necessary some localities on field edges. Small grain harvest virtually complete. Corn silage 60%, second cutting alfalfa 90%, dry beans 70% harvested. Range feed and stockwater adequate. About 20% cattle and sheep moved from summer pastures, normal 25%.

**NEBRASKA:** Cool days and warm nights. Rainfall 0.75 to 1.00 in. most areas. Panhandle less than 0.10 in.

Topsoil and subsoil moisture short. Wheat 40% seeded, 45% normal and 60% 1975. Irrigated corn good condition. Dryland corn poor condi-

tion; 60% of all corn mature, 50% normal and 60% 1975. Corn harvested for grain 5%, normal 0%, 1975 0%. Silage harvest continues. Sorghum and soybeans fair condition. Sorghum 65% ripe, 35% normal and 60% 1975; 10% harvested, 0% normal and 1975. Sixty percent soybean plants have shed leaves, normal 40% and 1975 45%. Soybean harvest begun. Dry bean harvest 50% completed. Alfalfa and wild hay fair condition. Limited fourth cutting begun. Pasture and range feed supplies short. Supplemental feeding continuing.

NEVADA: Temperatures 1 to 5° below normal. Precipitation well above normal north. Extremes: 30 and 93°. Exceptionally heavy precipitation north and central.

Third crop alfalfa hay continued west and central. Sixth cuttings well along southern valleys. Limited movement livestock.

NEW ENGLAND: Temperatures 3 to 10° above normal. Mostly dry until late week when rainfall became widespread with totals mostly 0.5 to 1.50 in. Heaviest rain in Vermont.

Good week for fieldwork. Potato farmers in Aroostook County, Maine, busy killing vines and preparing for harvest. Some potato harvesting started; moderate yields and some tuber rot showing. Corn crop not mature, harvest for silage underway in south, another week needed north. Apple picking full swing, color good to excellent. Cranberry harvest underway; good yields, color and quality. Hay harvest nearing completion; larger than average crop, below normal quality.

NEW JERSEY: Temperatures 3 to 5° above normal. Extremes: 41 and 92°. Rainfall 1.85 in. north, 0.58 in. central and 0.46 in. south. Soil moisture, in percent of field capacity averaged: 80% north, 49% central and 45% south. Soil temperatures averaged: 68° north and 73° south.

Soil moisture short. Iceberg lettuce, snap bean, cabbage, eggplant, peppers, squash, cucumbers, corn, greens and tomato harvests continue. White potato harvest 75% complete. Sweetpotato and apple harvests increasing. Corn for grain harvest begun. Soybeans coloring. Barley and rye seeding continue. Soil preparations continue for wheat.

NEW MEXICO: Heavy rains parts of south 14th and 15th with up to 3:00 in. Elsewhere showers light and widely scattered.

Soil moisture short to adequate. Ranges fair to good with winter feed prospects not favorable in few northern areas. Livestock good. Irrigated crops good condition. Cotton 10% open, first bale ginned. Alfalfa fourth cutting began in north; in south the fourth cut well advanced, few on fifth. Irrigated grain sorghum complete dough stage. Dryland grain sorghum poor to fair, needs moisture. Corn complete dough stage, harvesting silage. Winter wheat seeding 60% complete. Dryland low emergence rate due to lack of moisture.

NEW YORK: Temperatures 5 to 13° above normal. Extremes: 33 and 89°. Precipitation from 0.10 in. to 2.00 or 3.00 in. Working conditions variable. Second cutting alfalfa nearly done. Third cutting 55%. Corn silage 10%. Grain corn 2 to 3 weeks from maturity. Dry bean harvest progressing. Wheat planting underway. Potato harvest on schedule. Cabbage for kraut harvest begun. Snap bean, sweet corn and tomato harvest continues. Onion and lettuce harvest decreasing.

Hudson Valley apple harvest ahead of normal and western harvest increasing. Early variety wine grapes being harvested.

NORTH CAROLINA: Precipitation above normal. Temperatures near normal.

Fieldwork: 4.1 days suitable. Soil moisture short to mostly adequate. Precipitation generally improved crops. Corn fair to good, mostly good major producing coastal plains. Soybeans, peanuts, cotton, sweetpotatoes, sorghum mostly fair. Pastures poor to mostly fair. Corn for grain 46% harvested, 37% 1975, 31% average. Corn for silage 76% cut. Burley tobacco 74% harvested, 75% 1975. Sweetpotatoes 12% dug, 22% 1975. Apple crop generally good condition, picking slow about 40% harvested near normal progress. Peanut harvest just started. Cotton picking to begin soon.

NORTH DAKOTA: Temperatures 6° above normal in the northeast to 9° above normal in the northwest and southwest. Extremes: 93 and 35°. Precipitation below normal except west central and southwest, ranging from 0.21 in. to 0.41 in. below normal. West central and southwest 0.22 and 0.58 in. respectively, above normal. Potato digging and sugarbeet lifting underway. Flax and dry bean combining and cutting corn for silage nearing completion. Scattered rain provided some relief to dry soils. Pastures and ranges poor.

OHIO: Mild temperatures, below normal 16th and 17th. Extremes: 87 and 48°. Precipitation 0.08 in. southeast to 2.36 in. southeast. Soil moisture short to adequate. Crops good to excellent condition. Corn and soybean harvest just underway, below 5%. Corn 70% mature, 70% 1975 and 50% normal. Soybeans 30% mature, 25% 1975 and 20% normal. Percent of intended fall acreage planted: Wheat 10%, same as last year and normal; barley 30%, rye 15%. Harvest completion: Corn silage 50%, 50% 1975 and 45% normal; alfalfa near completion; potatoes 55%, 45% 1975 and 50% normal; tobacco 80%, 80% 1975 and 65% normal; red clover seed 75%; tomatoes 70%, grapes underway. Sugarbeet harvest began. Pasture condition fair, poor in local areas. Fieldwork: Less than 6 days favorable.

OKLAHOMA: Temperatures from 1° below normal southeast to 3° above normal Panhandle and northeast. Precipitation ranged from 0.19 in. southeast to 3.01 in. southwest. Weekend mild with light to moderate rains.

Moderate rains eased dry topsoil conditions. Harvest underway most crops. Wheat 8% planted, same 1975, average 26%. Corn 17% harvested, average 20%. Sorghum 49% mature; 8% harvested, average 10%. Cotton fair, as rains were too late to improve outlook. Early bolls 10% open, average 21%. Peanuts good, 13% mature, digging not begun. Plantings of winter pastures making good gains. Rains improved existing grasses. Cattle gaining well on good grazing.

OREGON: Temperatures 2 to 5° above normal. Extremes: low 90's, mid 30's west; low 90's, high 20's east. Precipitation widespread, fairly heavy. Over 1.00 in. rain along coast, over 0.50 in. Willamette Valley midweek. Considerable rain and showers south late week.

Spring grain harvest nearly complete west. Fall soil preparation and seeding begun. Corn

silage being cut. Some fourth cuttings of alfalfa being made. Hop harvest near end. Anjou harvest underway; yields down. Apples being picked. Peach harvest nearly over. Filberts beginning to drop; harvest 3 to 5 weeks away. Onion harvest begun. Approximately 50% of sweet corn harvested. Potatoes in good condition; being harvested. Range and pastures in excellent condition. Livestock in good flesh.

**PENNSYLVANIA:** Sunny and mild beginning and end of period; cloudy with abundant rainfall 16th and 17th. Temperatures mostly 50 to 80° averaging 1 to 5° above normal. Extremes: 42 and 91°. Rainfall 1.50 to 2.50 in. all except northwest and Philadelphia area where less than 1.00 in. Most areas received greatest soaking rainfall in 6 weeks.

Fieldwork: 4.0 days suitable. Soil moisture mostly adequate to some short in south. Activities: Filling silos; hay making; plowing; barley seeding; digging potatoes; picking apples. Potatoes dug 52%, 46% in 1975. Ensilage corn 24% harvested, last year 34%. Tobacco cut 80%, last year 65%. Barley sown 40%, last year 45%. Plowing 59%, last year 53%. Alfalfa hay third cut 78%, fourth cut 45%. Clo-tim second cut 89%. Hay quality mostly good to fair. Grain corn 67% dent, 12% mature, last year 27% mature. Feed from pastures average.

**PUERTO RICO:** Island rainfall 1.69 in. or 0.11 in. below normal. Temperatures about 80 to 81° on coasts and 76° interior. Extremes: 94 and 60°. Rainfall favored new sugarcane plantings, coffee development. Coffee harvesting started but at slow pace. Weather conditions permitted preparation of tobacco seedbeds and land for new plantations but in some areas heavy rains damaged seedlings in seedbeds. Pastures recuperated after drought. Cultivation, fertilization and new plantings continue. Recent weather favored small crops and vegetable cultivation. Abundance of plantains and root crops.

**SOUTH CAROLINA:** Temperatures near normal; below normal early, about normal remainder. Extremes: 89 and 44°. Rainfall above normal; 4.00 to 5.00 in. south, less than 1.00 in. northeast.

Rains slowed corn harvest. Some cotton picking underway, defoliation in progress. Some soybeans cut for hay because of dry conditions. Insects still problem. Crop conditions: Poor to fair - grapes, pecans; fair - soybeans, pastures, fall vegetables, winter grazing; fair to good - apples. Corn harvested, 61% 1976; 51% 1975; 39% average. Cotton open bolls 52% 1976; 55% 1975; 44% average. Apples harvested 67% 1976; 68% 1975; 68% average.

**SOUTH DAKOTA:** Showers midweek, up to 1.40 in. south central. Temperatures near normal. Extremes: 91 and 35°.

Topsoil moisture short. Rains prompted winter wheat seedings. Winter wheat seeded 72%, 1975 81%, normal 74%. Rye seedings lagging due to drought. Rye 42% seeded, 1975 81%, normal 61%. Sunflower harvest beginning, short plants, low yields. Soybeans 90% shedding leaves, 1975 79%, normal 74%. Corn safe from frost: 90%, 1975 88%, normal 87%. Fall plowing 67% complete, 1975 74%, normal 72%. Farmers delaying plowing due to dry soil. Supplemental livestock feeding continuing over large area. Hay transported from neighboring

States. Livestock sales still heavy, some herds moved out of State.

**TENNESSEE:** Extreme east received 1.00 in. rainfall midweek. Showers west 0.25 in. or less weekend. Temperatures about normal west and 4 or 5° below average central and east. Highs upper 70's and low 80's and lows 50's and low 60's.

Dry weather hurt late planted soybeans and pastures but aided corn harvest. Pastures remain short and dry. Fieldwork: 5.6 days suitable. Soil moisture short. Corn all dented and 65% mature, 70% last year, 65% average. Corn 10% harvested, 12% last year and average. Cotton 10% open boll stage, 25% last year, 35% average. Soybeans have all set pods and 4% mature, 4% last year, 7% average. Burley tobacco 90% harvested, 85% last year and average. Fall plowing 55% completed, 50% last year, 60% average. Wheat 18% seeded, 15% last year, 18% average. Oats 30% seeded, same as last year and average. Barley 30% seeded, 35% last year, 30% average.

**TEXAS:** Near normal temperatures, above normal rain. Rainfall averaged from 1.00 in. in Panhandle to 2.00 in. central, south. Temperatures within 1 to 2° of normal.

Showers many areas slowed fieldwork, helped bring early planted wheat, oats up to good stands. Cotton harvest on southern high plains began, although cool weather slowed crop development. Boll weevils numerous. Cotton 7% picked, 16% 1975, 14% average. Sorghum harvest slowed by rain many areas. Harvest 57% complete, 63% last year, 55% average. Corn harvest advanced slowly as weather permitted. Harvest 34%, 36% 1975, 45% average. Rice first cutting 100% complete, 98% last year, 88% average. Peanut harvest south stopped by rain. Fields north benefited from rain, now average. Harvest 22% done, 33% 1975, 36% average. Wheat planting continued as weather permitted. Showers brought early fields up to good stands. Seeding 19% complete, 22% last year, 45% average. First citrus harvested. Planting vegetables resumed following rains; some replanting necessary. Harvesting squash, eggplant, cucumbers, sweetpotatoes, mustard greens, sweetpotatoes, tomatoes, okra and bell peppers.

Cattle good condition, although screwworms, ticks increasing central, south, Gulf Coast. Ranges on Edwards Plateau above average, other areas generally average. Stock tanks on low Plains, north remain low. Winter grazing on high Plains to be limited. Rain came too late to allow ranges to fully recover from drought.

**UTAH:** Recurring showers and thunderstorms principally western half. Amounts generally light to moderate but locally heavy few areas. Temperatures ranged from 4° below normal to 4° above.

Harvesting third crop alfalfa hay, corn silage, potatoes, onions, tomatoes. Onions good to very good, tomatoes only fair. Peach and pear harvest nearing completion, apple harvest beginning. Some cattle coming off range lighter than normal in more arid regions. Lamb marketings active.

**VIRGINIA:** Temperatures above normal north, below normal elsewhere. Extremes: 96 and 34°. Rain early and late in period ranging from less than 1.00 in. to greater than 5.00 in.

Fieldwork: 3.7 days suitable. Topsoil moisture short to adequate. Corn for grain 25% harvested. Corn silage harvest very active. Soybean condition unchanged at 66% of normal. Some cut for hay. Spraying still active. Peanut con-

dition improved. First digging may start this week. Tobacco harvest progress: Flue-cured 73%, 1975 88%; fire-cured 77%, 1975 83%; burley 76%, 1975 82%; sun-cured 74%, 1975 80%. Flue-cured marketing active. Hay and pasture slightly improved. Fall variety apple harvest 34% complete. Small grain land preparation and seeding operations gained momentum as soil moisture became adequate.

**WASHINGTON:** West: Temperatures 1° subnormal in east Cascades and Olympic foothills, 1° above elsewhere. Precipitation from 0.10 in. to 0.20 in. above normal.

Silage corn late in maturing. Harvesting spring wheat, barley, seed crops and potatoes. Pastures excellent. Chopping corn for green feed. Hay being stored.

East: Temperatures 3° above normal northeast, 1° above elsewhere. Precipitation from 0.10 in. to 0.20 in. below normal.

Ideal weather brought on apple size and color. Apple harvest started: Will peak end of September. Grain being combined. Potatoes being dug, size and quality excellent. Pasture and range excellent.

**WEST VIRGINIA:** Temperatures below normal. Precipitation near normal north central and southeast, above normal elsewhere.

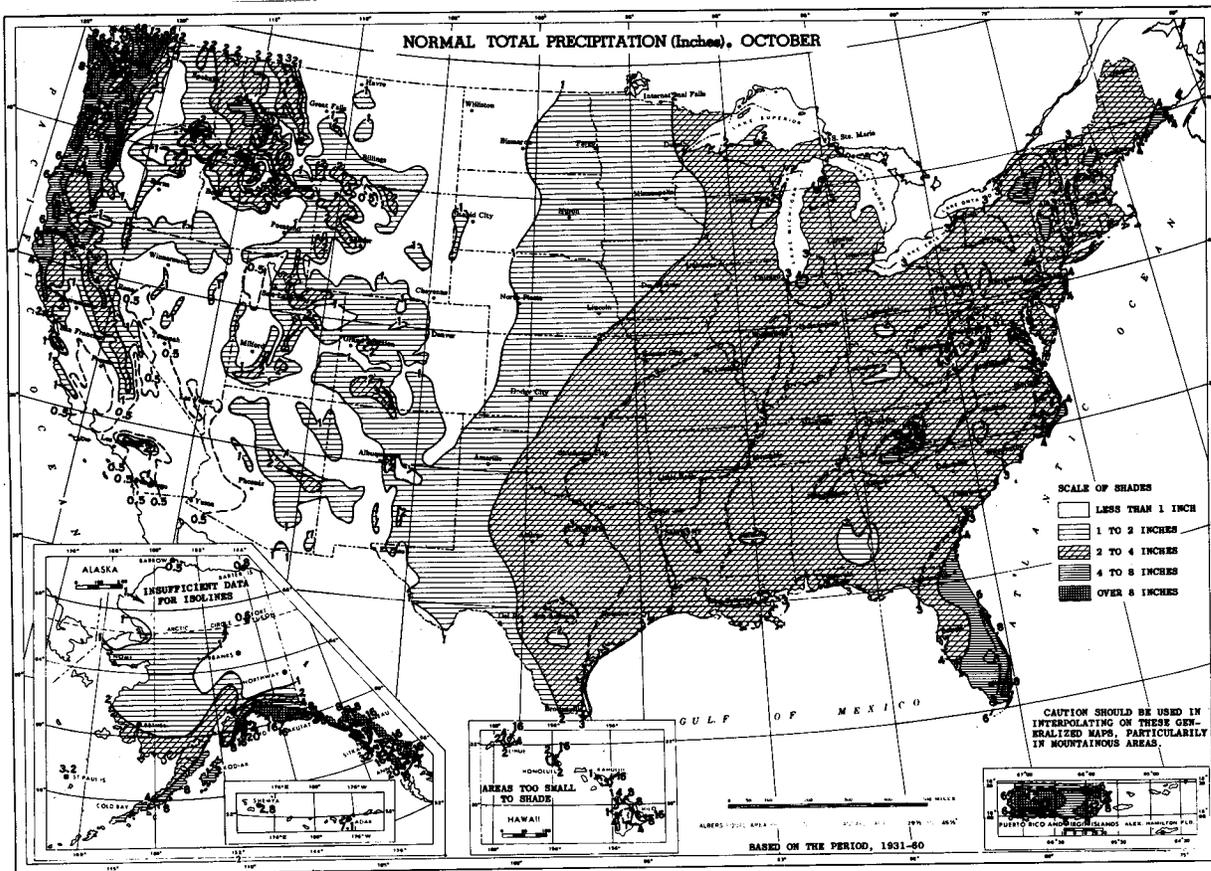
Farmwork: 4.4 days suitable. Haying, filling silo and mowing pasture most active. Soil moisture short. Burley tobacco 80% harvested. Potatoes 81% dug, 20% ahead 1975, 16% above average. Second haying 88% complete, 2% above average. Third haying 48%. Corn good to fair. Livestock mostly good condition.

**WISCONSIN:** Temperatures 1° subnormal. Warm 80's beginning, cold front 13th brought cooler temperatures and rain northwest. Cloudy through 17th but little rain. Sunny and pleasant 18th. Rain developed west 19th, spread eastward.

Silo filling advancing rapidly; 55% done, 1975 30%, normal 25%. Corn stalks dry, water being added to silage. Silage yields vary but below normal. Corn for grain mostly safe from frost. High moisture ear corn going into silos. Early varieties being picked and shelled in sandy areas. Soybeans drying rapidly; 45% shedding leaves, 1975 15%, normal 5%. Haying near end for season. New seedings need rain prior to winter. Fall pastures poor. Fall plowing 5% done, 1975 10%, normal 8%. Most areas too dry for good plowing. Winter wheat seeded where moisture available for germination. Dry soils preventing many farmers from planting winter wheat. Soil moisture short. Tobacco harvest well along. Harvesting apples and late vegetable crops continues. Low water supplies a concern for cranberry harvest.

**WYOMING:** Temperatures quite warm above seasonal normals. Precipitation above normal in Big Horn drainage and Lower Platte drainage, but overall below normal.

Soil moisture short. Major activities: Haying, winter wheat seeding. Winter wheat seedings 77% completed, 55% emerged. Row crop prospects mostly good. Dry beans 76% in windrows, 34% combined. Corn for grain development ahead of last year with 55% dented and 16% mature. Light frost damage. Potatoes 38% harvested. Alfalfa 42% in third cutting.



## World Weather and Crop Update

(August review with update as of September 20)

**HIGHLIGHTS.** September rains relaxed the European drought and improved prospects for late maturing crops, catch crops, fall forage, and fall planting and plowing. In contrast, frequent sunny skies in the USSR permitted rapid advance of harvesting and fall planting activities.

In the United States, a hot, dry August limited cotton, corn, and soybean prospects in major producing areas. September rains, on the other hand, greatly improved conditions for sowing hard red winter wheat. Recent mild and relatively dry weather completed a near perfect growing season in the Canadian prairies.

Although widespread August showers brought summer monsoon rainfall up to normal, the monsoon performed weakly in September and dimmed the crop production outlook. August and September showers relieved crop stress in Thailand, while drought, persisted in Sri Lanka, Java, and Australia. The period was unusually dry in the Peoples Republic of China except for the important North China Plain.

**EUROPE.** Drought intensified in August, particularly in the hard-pressed northern section of Europe. In the worst areas, livestock consumed feed earmarked for winter as pastures dried up. There was little hay to cut, and corn, sugarbeets, potatoes and other vegetables deteriorated. The area of stress stretched from England and Wales in the west to Poland in the east. Most of the Mediterranean region and the Balkan countries of eastern Europe fared much better. Frequent rains in northern Europe were heavy and enhanced September prospects for sowing winter grains and catch crops. Although rains stimulated forage growth and development of late maturing crops, they came too late to benefit the mass of typical summer crops.

**USSR.** Wet weather persisted through most of August in the Soviet Union. From the Urals eastward the rain improved spring wheat and other crop yields. In the European sector, it caused considerable lodging of grain, created difficult harvesting problems, favored weed growth, stimulated potato diseases, and threatened root crops. Coupled with below normal temperatures and an accumulated deficit of growing degree days, crops lagged in development and maturity.

Summer and drier weather in late August and September permitted more orderly harvesting, timely seeding of winter grains, plowing for spring planting, and favored development and ripening of crops. The region escaped widespread early

frost. Grain harvest neared completion by September 20. Harvesting of sunflowers, lifting of sugarbeets and potatoes, and picking of corn and cotton gained momentum. Abundant soil moisture caused farmers to plant an unusually large acreage for winter grains. TASS reported winter grain will exceed 40 million hectares for the first time.

**AFRICA:** Wetter and cooler weather prevailed in the Maghreb countries of Morocco, Algeria, and Tunisia during August. The monsoon performed erratically in West Africa and left much of the region with below normal rainfall and some areas of crop stress.

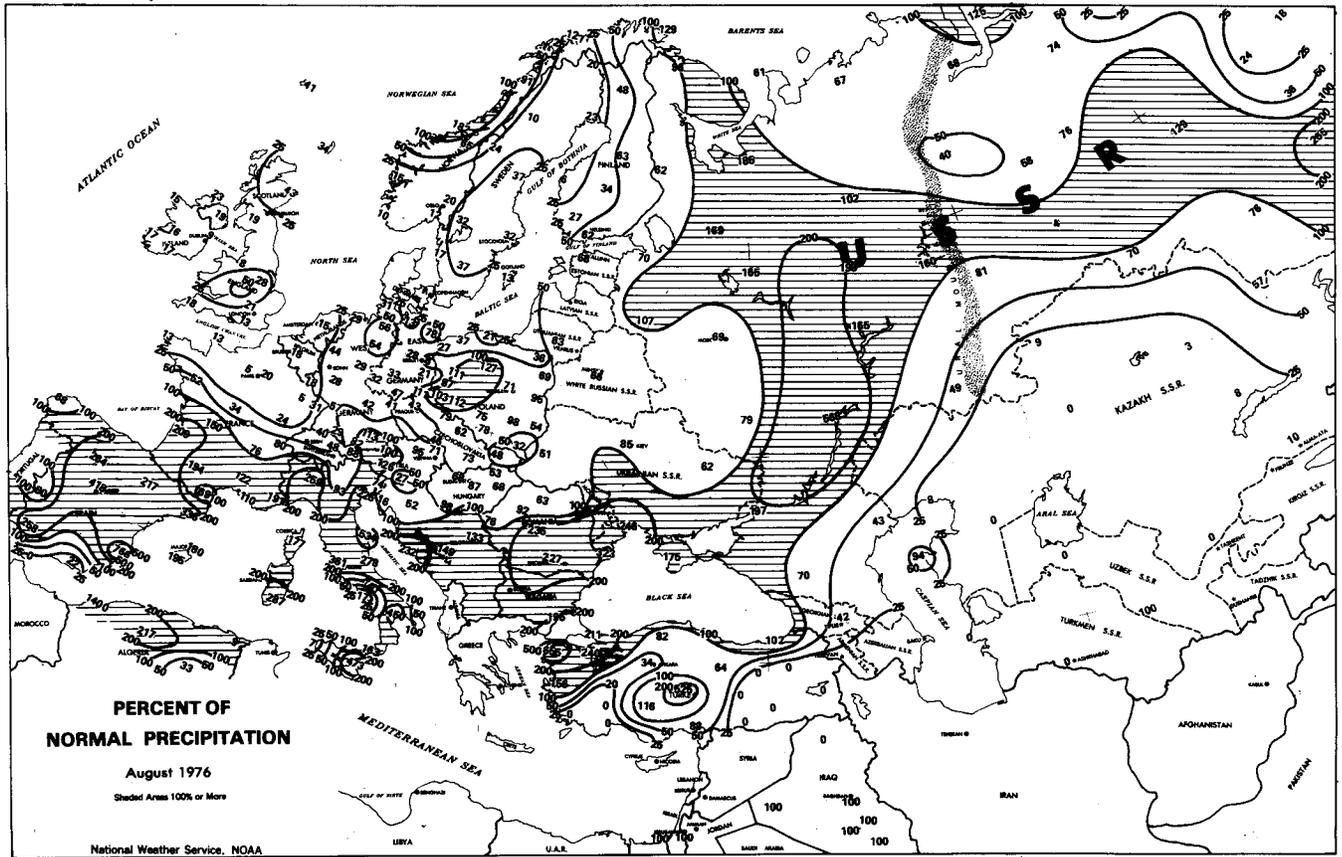
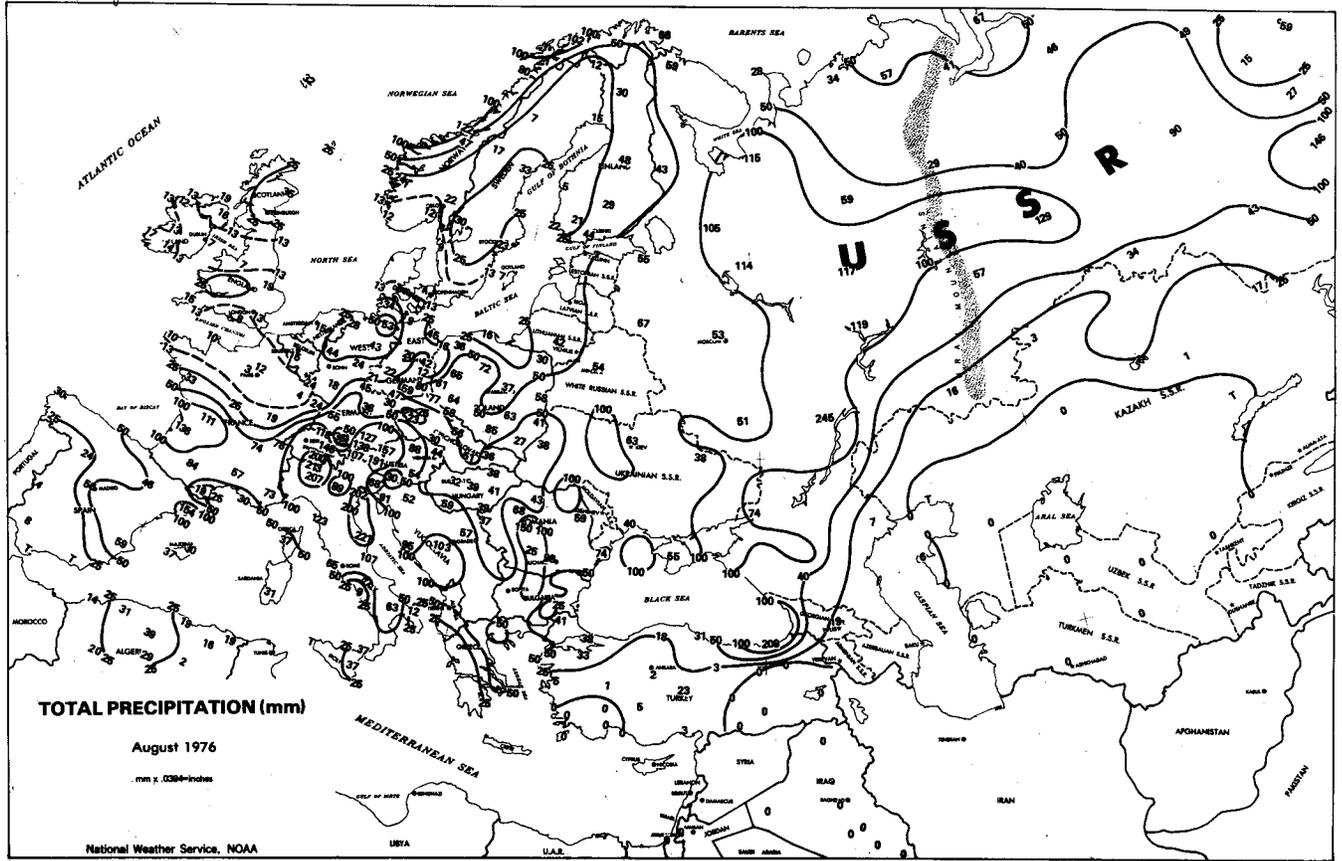
**AMERICAS:** High production figures indicate almost textbook growing season on the Canadian prairies. The relatively warm, dry spring and late summer-early fall favored timely planting, quick early growth, and orderly harvesting. A hot, dry August reduced yields of corn, soybeans, cotton and forage in major U.S. areas. September rains on the central and southern plains improved conditions for sowing and germinating winter wheat. Late summer rains also eased crop stress in many Central American countries.

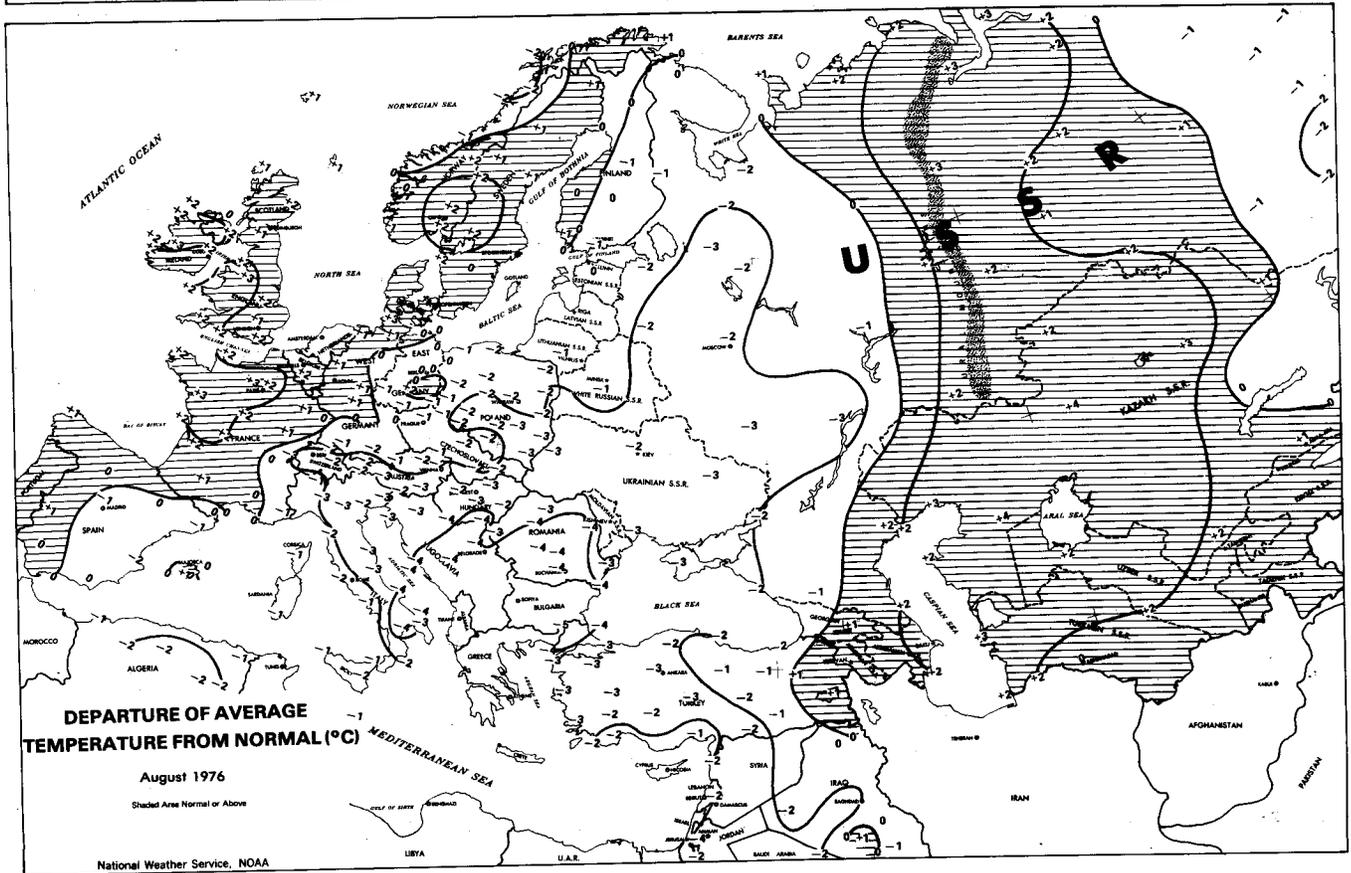
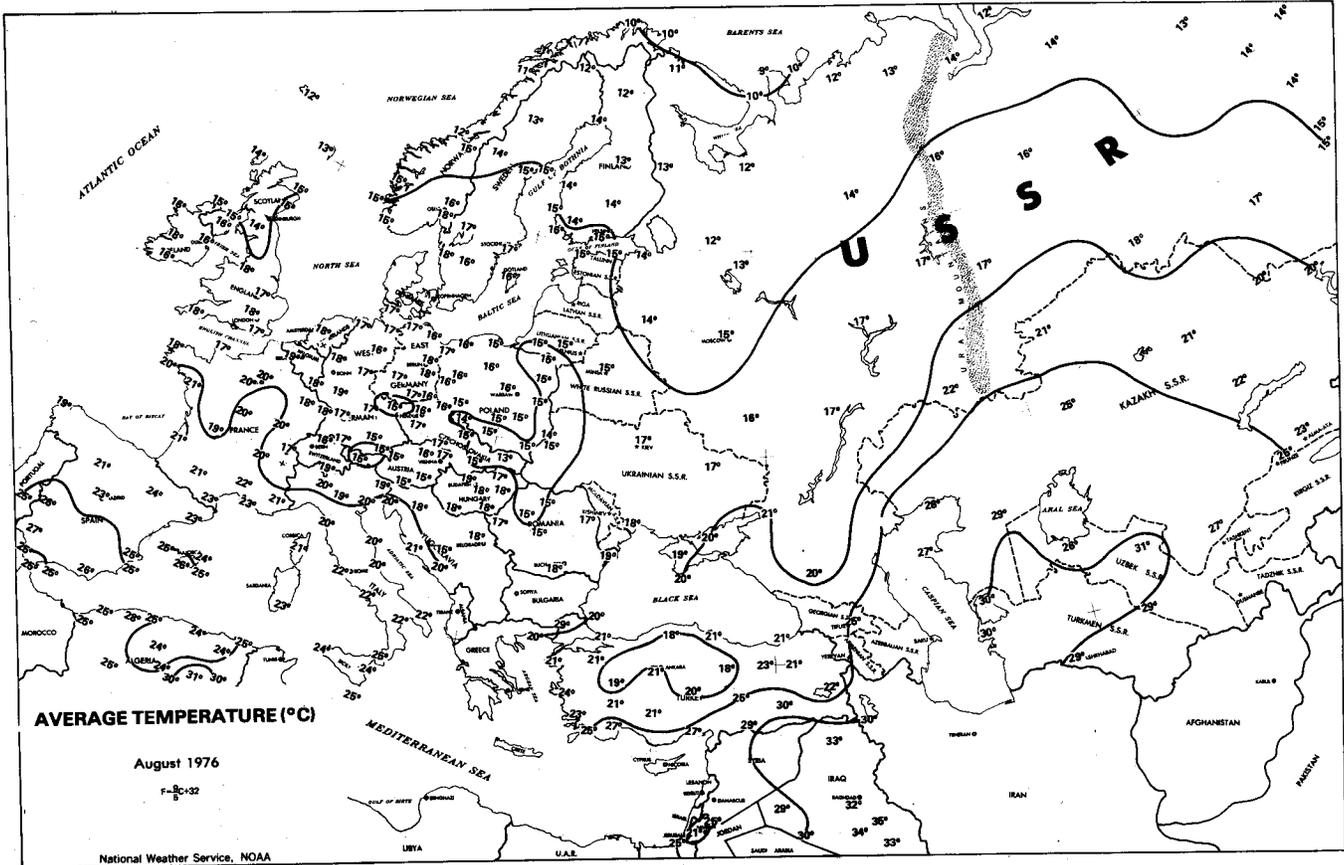
Drought continued in Brazil's northeast interior and northern Chile. Timely and generous rains greened Argentina as it emerged from winter. Forage and grain prospects improved considerably. Brazil received adequate rain for grain and forage in the south. Unusually heavy rainfall occurred in Sao Paulo.

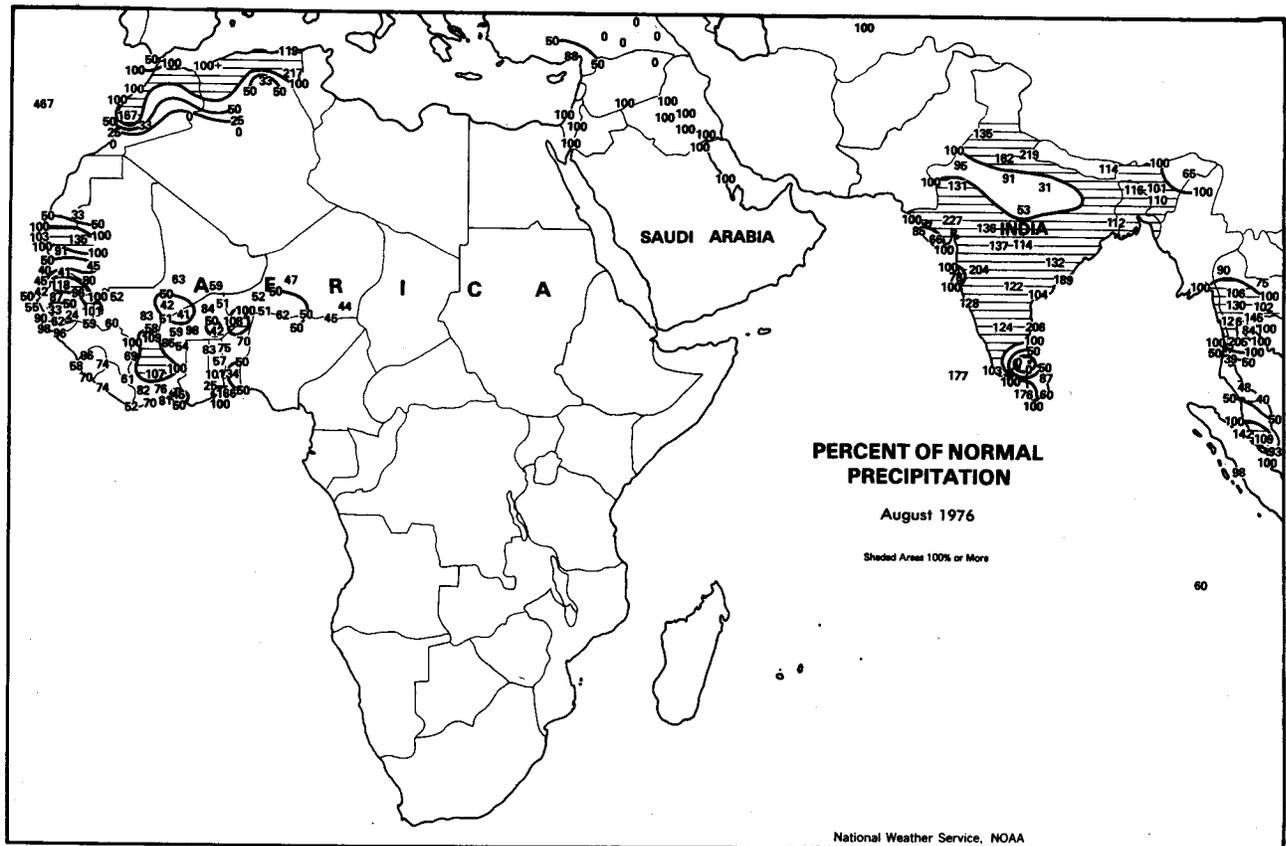
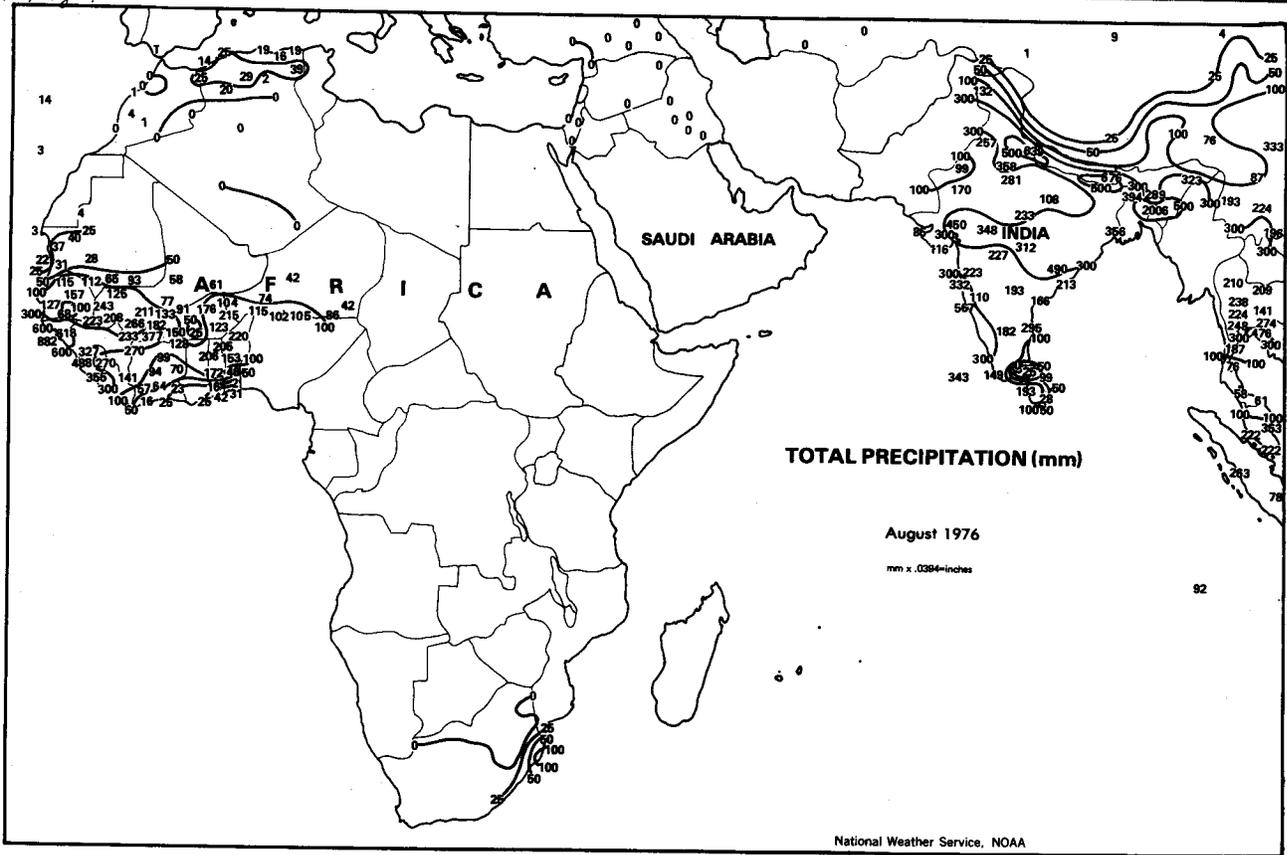
**ASIA:** Unseasonably dry late summer weather in much of the Peoples Republic of China favored harvesting of early crops but stressed others, as drought continued in the northeastern section. The important North China Plain received abundant rain to enhance sowing and emergence of winter wheat. Typhoon Iris moved into the southeastern PRC September 19.

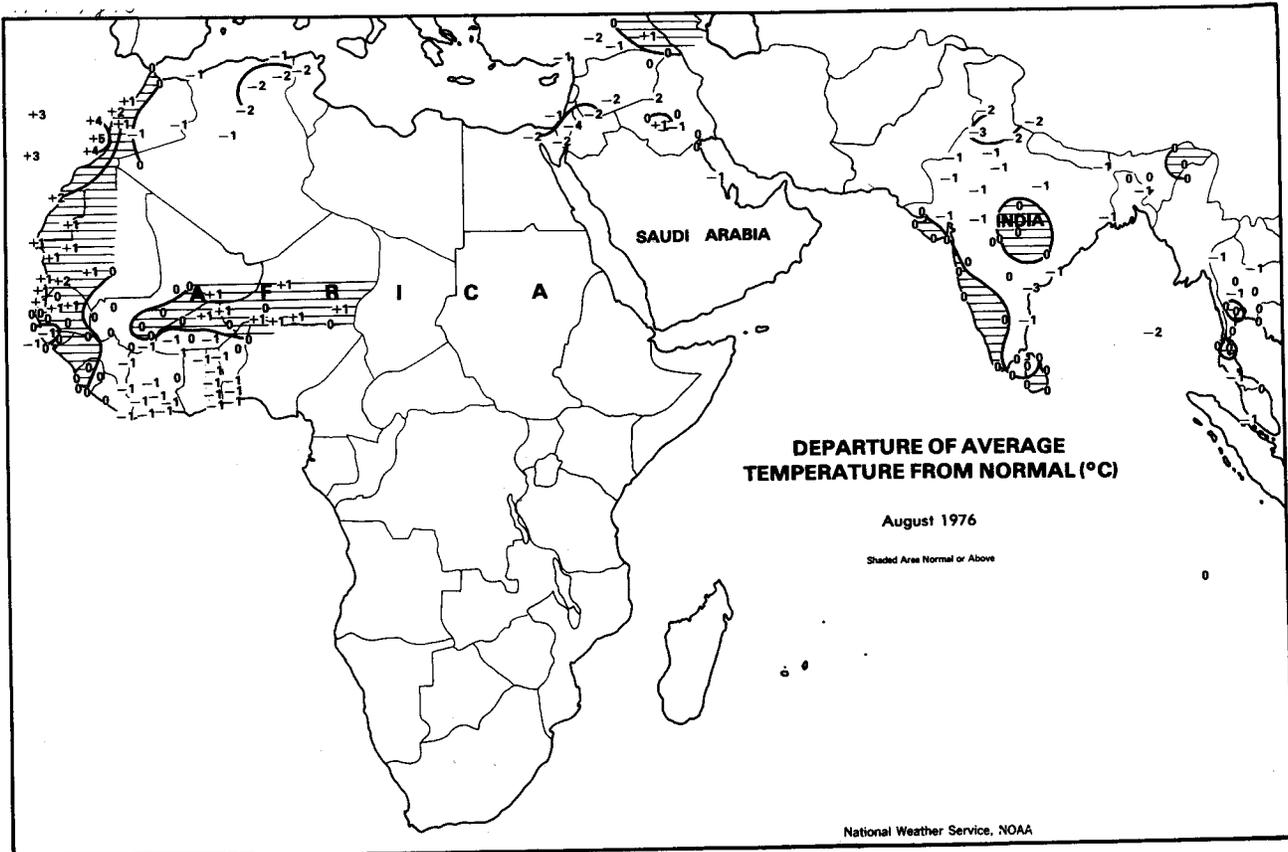
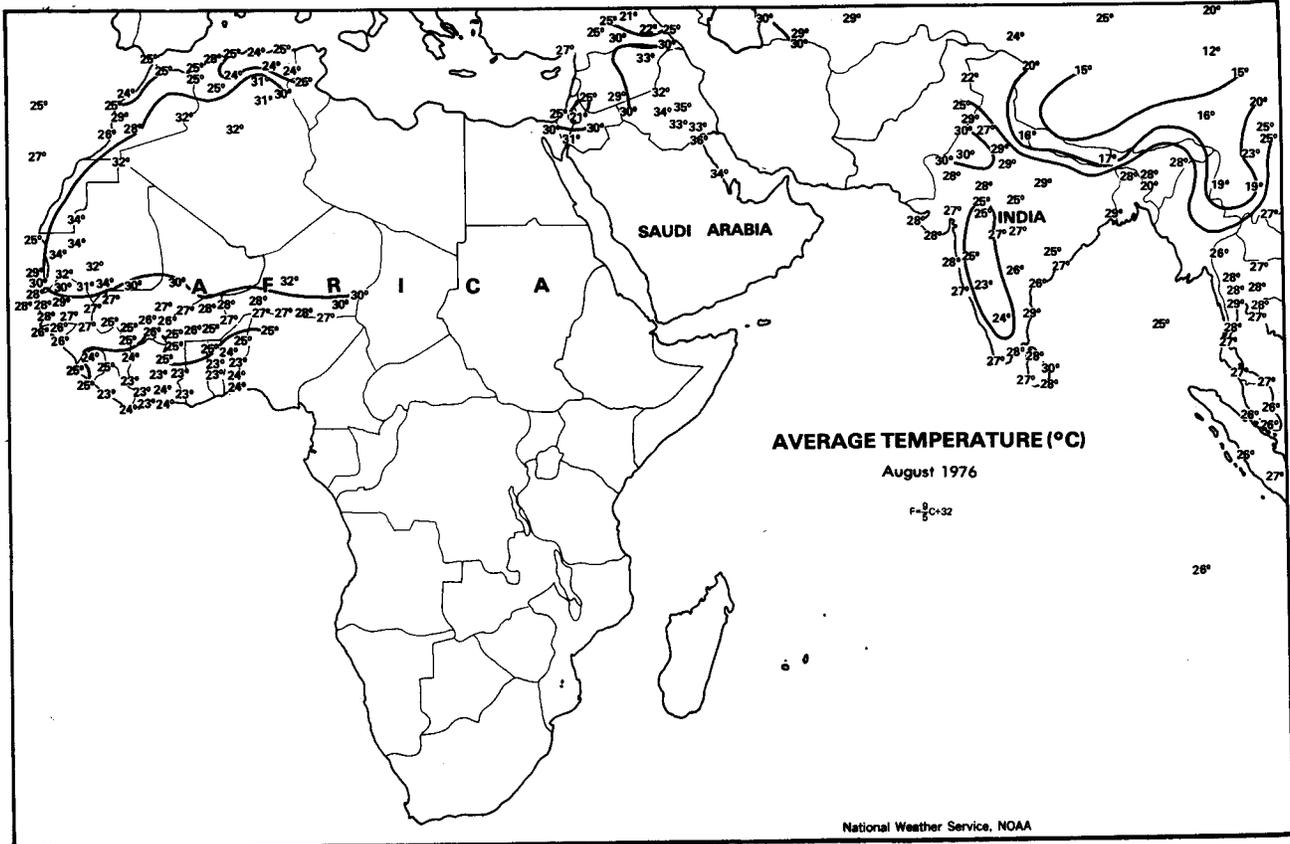
Although India's monsoon acted aggressively in August and relieved many stressed areas, the showers lacked last season's persistence and subsided in September. Sunny September days diminished production prospects for late crops and threatened the start of winter wheat preparations.

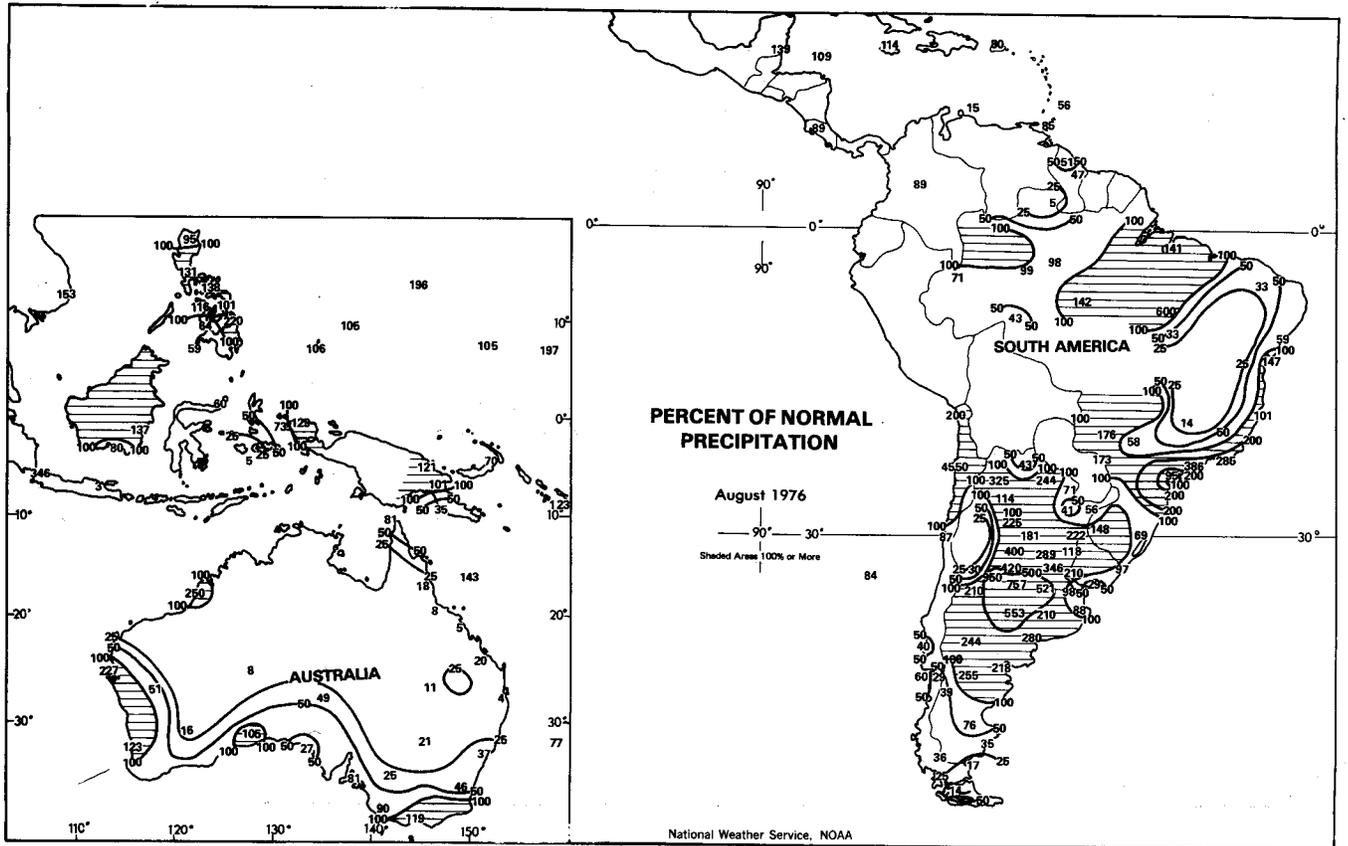
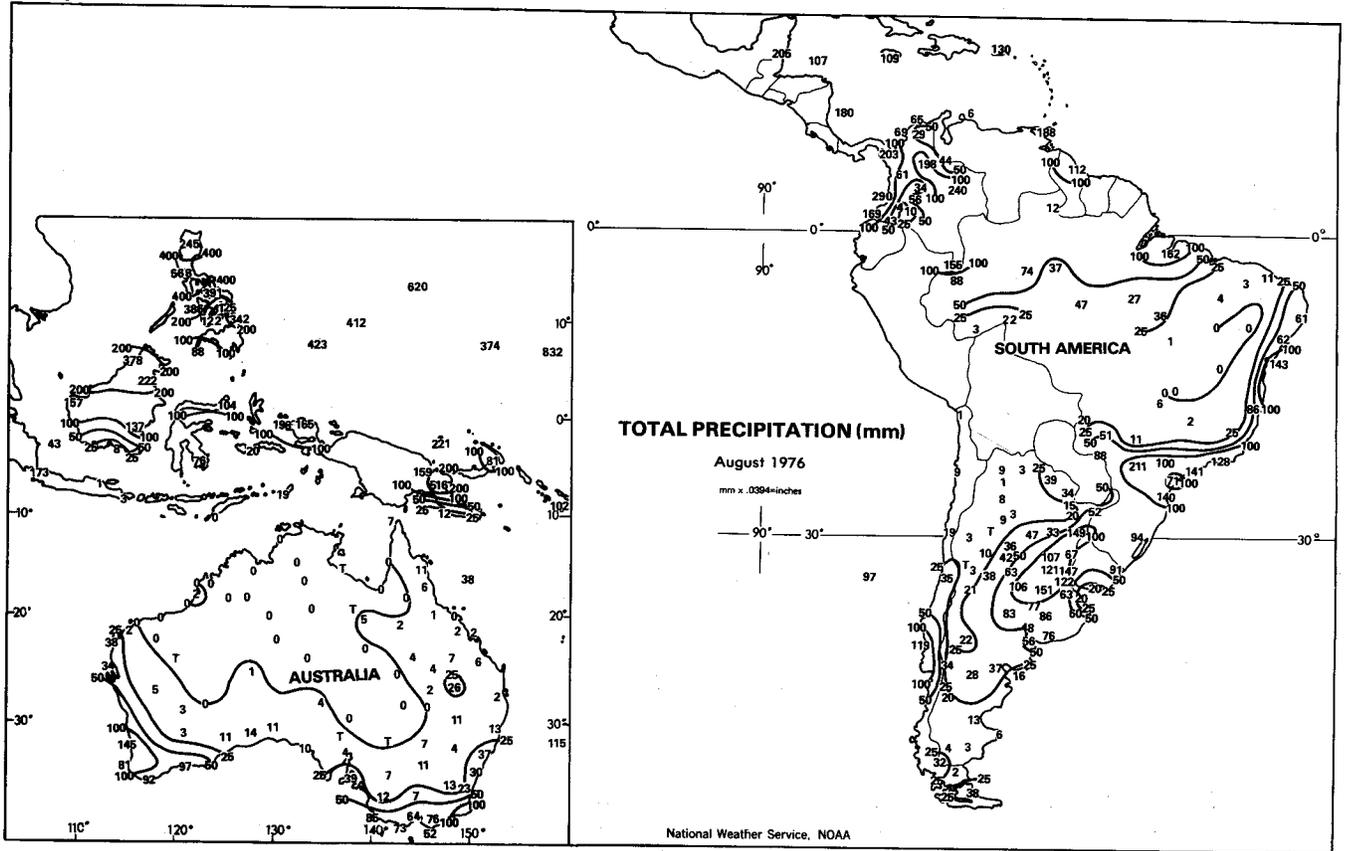
Sri Lanka, Java, and Australia suffered prolonged drought. While showers eased the problem in parts of Australia and permitted some sowing of spring crops, the overall situation remained poor. Typhoon Fran raked southern Japan with destructive, hurricane force winds and heavy rains.

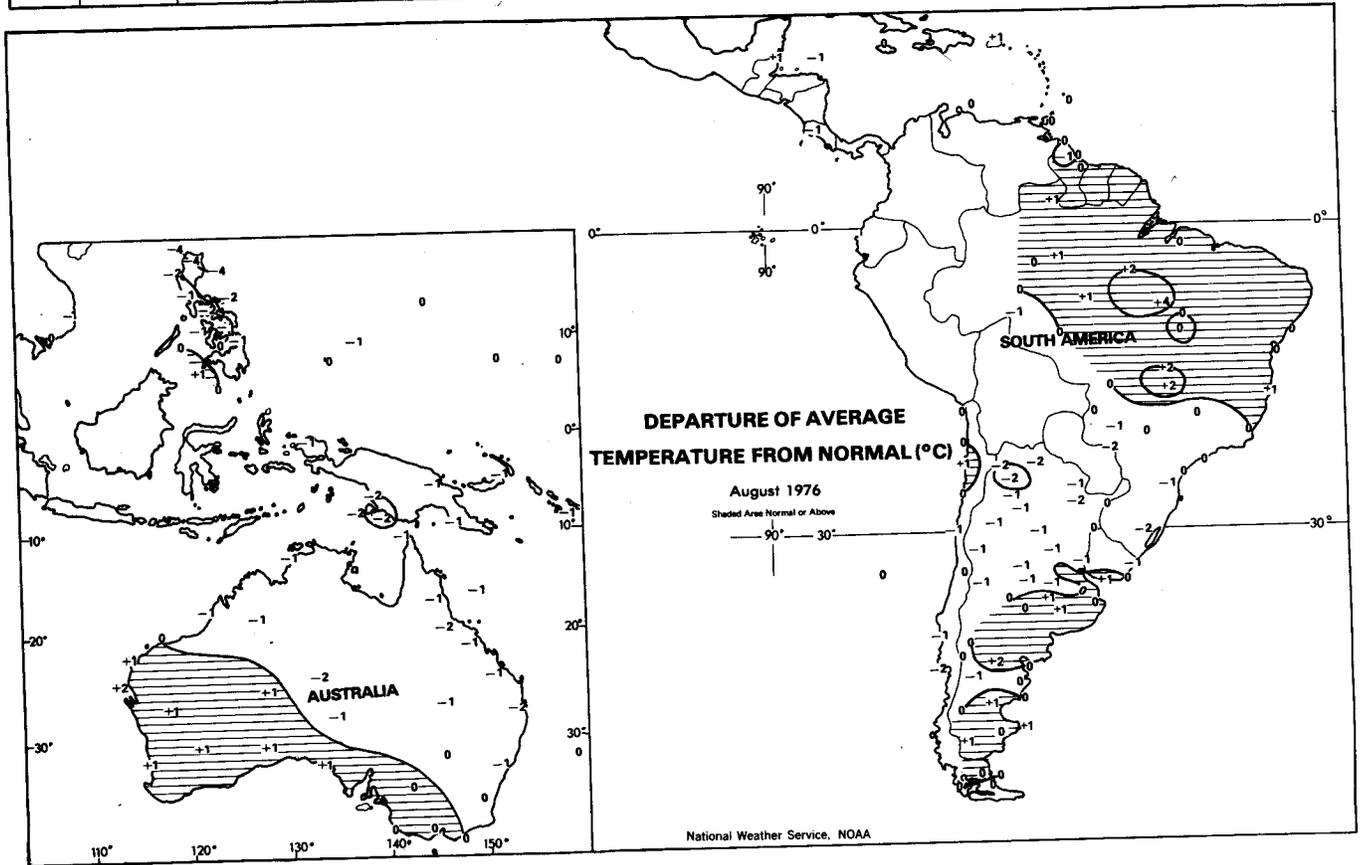
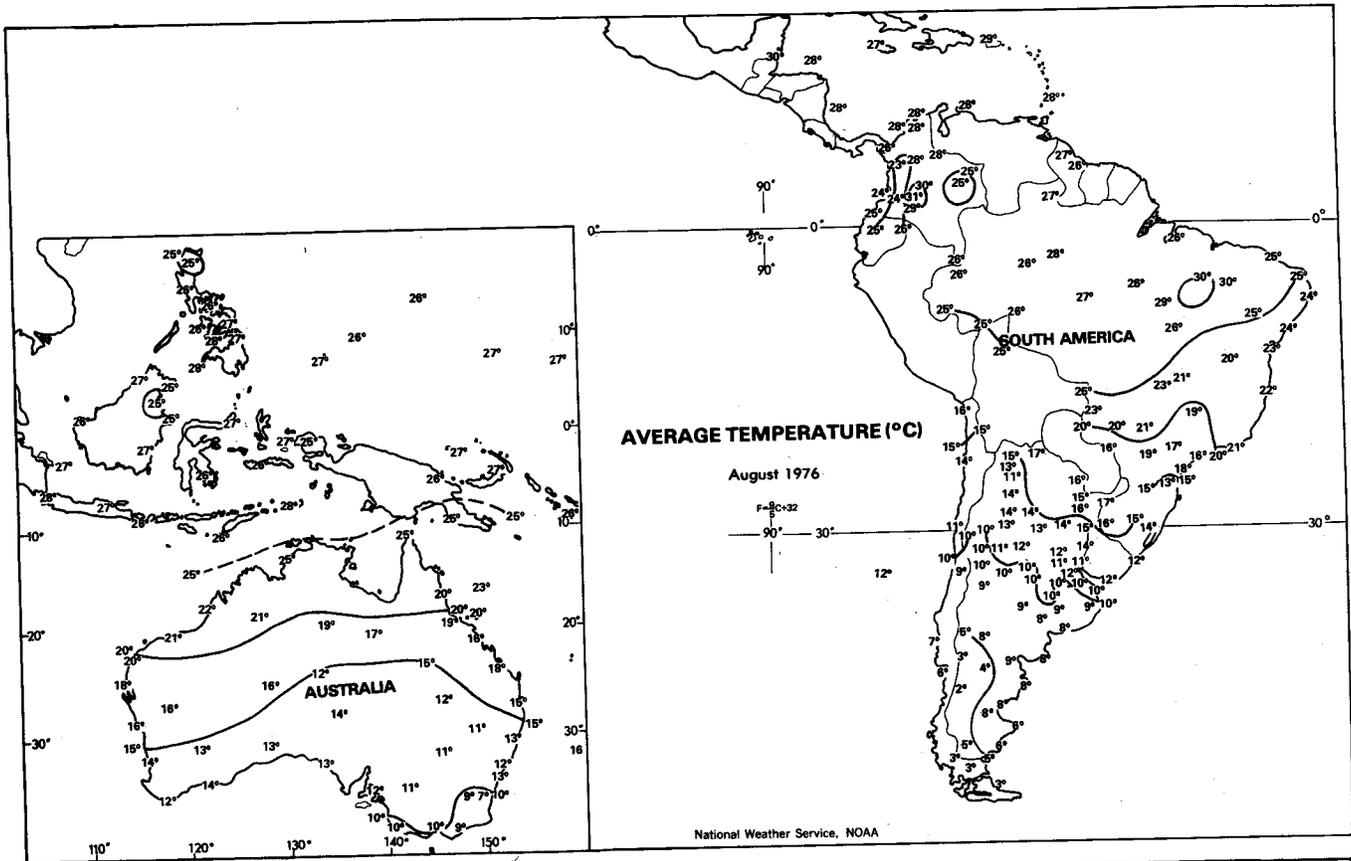




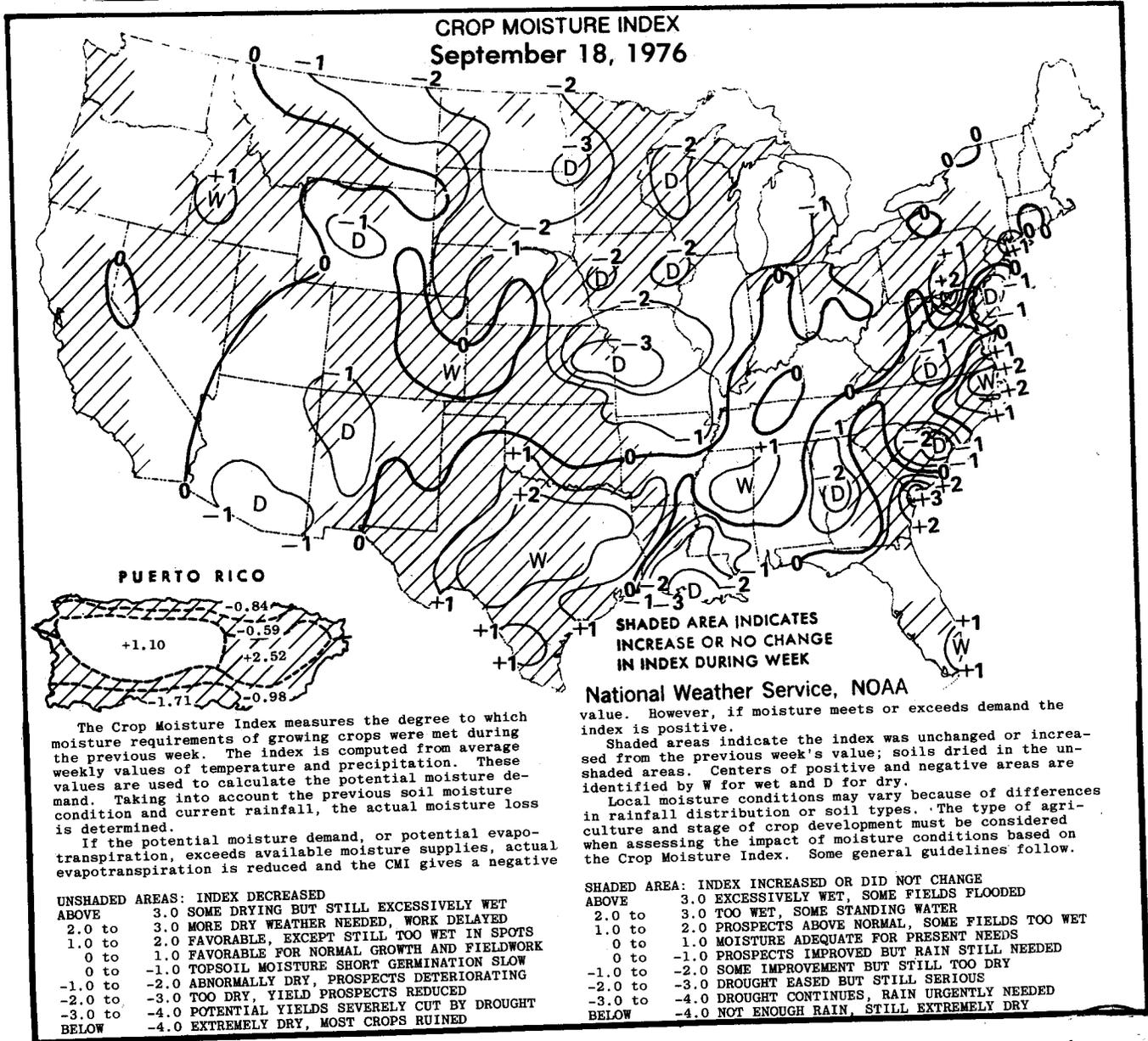












Agricultural Climatology Service Office  
South Building Mail Unit  
U. S. Department of Agriculture  
Washington, D.C. 20250

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### PLANTING PROGRESS

Percent of Acreage Planted  
(As of September 19)

	WINTER WHEAT		Avg.
	1976	1975	
Colo.	18	22	18
Ill.	5	5	6
Kans.	10	20	20
Mont.	50	--	--
Nebr.	40	60	45
Ohio	10	10	10
Okla.	8	8	26
S. Dak.	72	81	71
Tex.	19	22	45
U. S.	19	22	27