

# Weekly Weather & Crop Bulletin

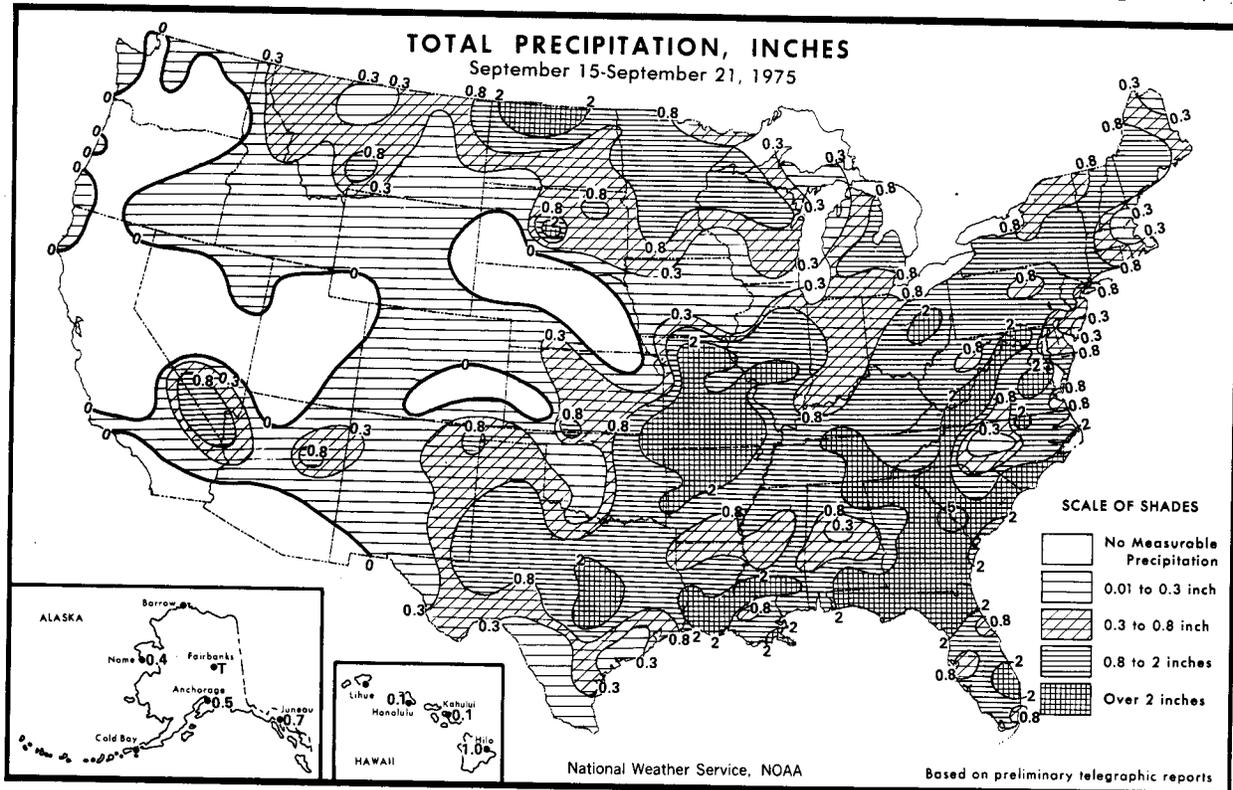
U. S. DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration

U. S. DEPARTMENT OF AGRICULTURE  
Statistical Reporting Service

Volume 62, No. 38

WASHINGTON, D. C.

Sept. 23, 1975



## NATIONAL WEATHER SUMMARY

For the week of September 15-21

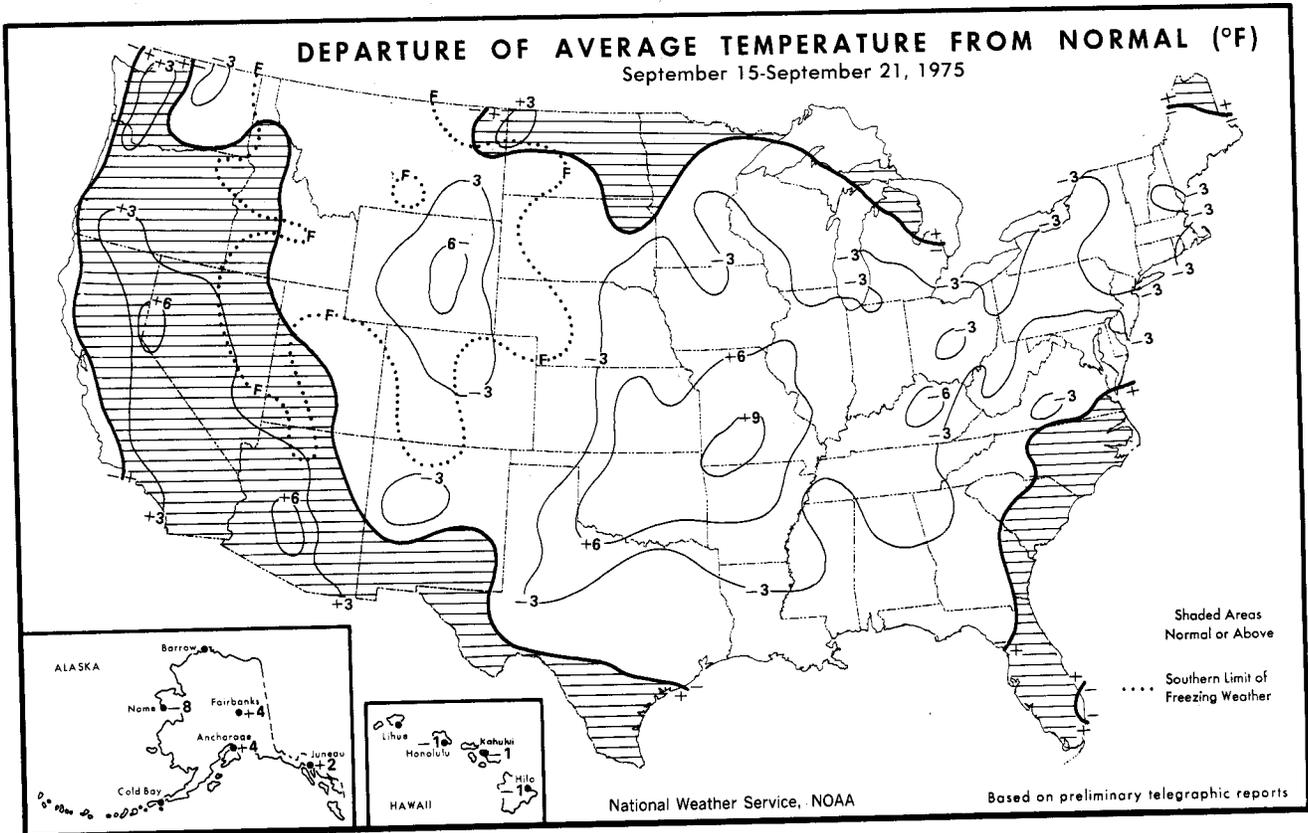
**HIGHLIGHTS:** Much of the credit for the week's weather goes to a new cold air mass that delivered cool temperatures and light rains to most of the Nation. Unseasonably warm, dry weather though, gripped the Pacific Northwest, and readings in the 80's ran along the Gulf and Atlantic Coasts. Associated with the front, ahead of the colder air, showers and thundershowers were scattered throughout the Great Plains and the Mississippi and Ohio Valleys. Locally heavy rains drenched parts of the Southwest and south central Plains.

Before the past weekend's cold air mass moved out to sea on Monday, it dropped a few more record lows from the southern Atlantic States north into New England: Albany, N.Y. 33°, Warwick, R.I. 38°, Raleigh, N.C. 45°, and Richmond, Va. 44°. Daytime temperatures in the 60's held on across most of the Nation, slipping into the 50's where cloudy

but warming into the 70's and 80's under sunny skies. The desert Southwest claimed the only 90's.

Notable precipitation turned up as a line of thunderstorms from central Texas into Arkansas. Scattered thundershowers occurred along the Gulf Coast from Louisiana through Florida and up the Atlantic Coast to North Carolina. Except for the Pacific Northwest, clear skies opened over the western half of the Country and reached into the northern Plains and the upper Great Lakes region.

On Tuesday tropical storm Eloise came to life in the south Atlantic. Its heavy rains created flood problems in the Virgin Islands and Puerto Rico, where more than 10 inches fell in only 12 hours. On the continent, locally heavy rains in the Southwest took the form of scattered thunderstorms through the mountains and deserts of southern Nevada and southwest Arizona. Mild temperatures spread across the Nation, except the desert



Southwest, where a few readings topped 105°.

Wednesday's a.m. storm activity quieted in the Southwest, but picked up in parts of South Dakota and Louisiana. Lightning that accompanied heavy thunderstorms in South Dakota sparked four grass fires. The nighttime mercury edged upward from the 50's into the 60's across the central Plains and Great Lakes into the mid Atlantic States. Though northern New England warmed also, a few 40's dubbed it the Nation's cool spot.

A new cool air mass moving through the Pacific Northwest and northern Rockies foretold a cooling trend for portions of the Plains States. It deposited rains in the mountains and some snow at higher elevations. Showers and thunderstorms were scattered over most of the Mississippi and lower Ohio Valleys and southward over the southeast quarter of the U.S. Meantime fair skies favored most of New England and the central and southern Plains into the Rockies.

As Thursday morning's cold air mass continued its eastward push into the Mississippi Valley, temperatures slipped into the 20's and 30's in the northern mountain States. Some locally significant showers broke out ahead of and along the front in the northern and central Plains. Throughout much of the day showers and thundershowers persisted in north central and eastern portions of the Nation, but rainfall amounts were fairly light.

Precipitation picked up on Friday though in the south central Plains, where torrential rains soaked northeast Oklahoma, southeast Missouri, and northwest Arkansas. Northeast of Tulsa, Okla., 8.56 inches fell in only 5 hours.

In the afternoon sunny western skies let tem-

peratures soar and even pushed the mercury in Seattle, Wash. to a record 81°. In contrast the rest of the Nation enjoyed mild or cool temperatures.

In the wake of the cold front, evening showers and thundershowers sprang up from Texas to the Ohio Valley. Showers were scattered along the upper Great Lakes and along both the Atlantic and Gulf Coasts. In the central Atlantic, a new tropical storm, Faye, posed little immediate threat.

Except for coastal areas, fair weather prevailed on Saturday from the Pacific into western portions of the Great Plains and across Kansas and Oklahoma into southern Missouri and Arkansas. Associated with the cold front, a band of showers and thundershowers developed from the lower Mississippi Valley into the Appalachians. During the day showers and thundershowers diminished along the front from New York into southern Louisiana but gained momentum in southern and central Texas, Florida, southern Georgia, and southeast South Carolina. In the Gulf of Mexico tropical storm Eloise continued to move slowly westward, amid conditions favorable for strengthening.

Trapped by a high pressure system, unseasonably warm weather still held firm in the Pacific Northwest on Sunday. The rest of the Nation, except the desert Southwest and Atlantic Coast, reported cooler than normal daytime readings. In northern Minnesota and upper Michigan the mercury halted in the 40's.

Afternoon shower activity increased over much of the Atlantic and Gulf Coasts into the southern Plains. And gray skies drizzled rains in parts of the upper Great Lakes region and in northwest Texas.

## NATIONAL AGRICULTURAL SUMMARY

For the week of September 15-21

**HIGHLIGHTS:** Widespread rain over most of the Central and Eastern States was accompanied by subnormal temperatures in much of the area. Frost damage was minimal in most localities, but row crop development and harvest activities were slowed. The Mountain and Pacific Coast States generally remained warm and dry.

**SMALL GRAINS:** Rains over most of the Northern States slowed the small grain harvest.

Spring wheat combining advanced to 92% completion, but continued to lag much behind normal. Harvest was 75% done in Montana by September 21st; 92% in North Dakota; 85% in Idaho; and in the wrap-up stage in Minnesota. Winter wheat harvest was virtually complete, except in Idaho where only 10% of the crop remains in the field.

Seeding of next year's winter wheat crop moved ahead despite showers over many areas, and now stands at 26% complete. In Kansas 20% of the crop had been planted, about normal. Texas had seeded 22% by September 21st, far behind normal 61%. In Oklahoma progress is also slow, with only 8% in the ground.

**CORN:** Maturity of the Nation's corn crop continued ahead of normal, although at a slower pace in the Corn Belt due to cool, wet weather. Harvest advanced only slightly from a week ago as most operations came to a halt.

In the Northern and Central Plains, as well as the Corn Belt, crop maturity reached about 65-90%, well above normal. In Iowa corn was 89% mature compared to 57% in 1974 and 73% average. The Ohio crop was 75% mature and 65% of the crop in Kansas and Indiana was safe from frost. In Michigan 90% of the corn was dented and 40% was mature, while in Minnesota 47% was in final stages of development.

Harvest was less than 10% finished in all North Central States, except Missouri with 21% done and Kansas with 15%. In the South Central States, the harvest in Texas advanced to 36% complete and Alabama stood at 28%. The North Carolina crop was 40% wrapped up, while South Carolina and Georgia were at 54% and 30%, respectively.

**COTTON:** Condition of many States' cotton crops deteriorated because of excessive moisture and cool temperatures.

Harvest in the Carolinas, Georgia, and Arkansas had still not picked up by September 21st, and in Tennessee operations had barely begun. Rains halted harvest in Texas where 16% was complete and cotton on the High Plains was shedding leaves.

Rains also slowed boll opening in many States. Mississippi cotton had 41% open bolls compared to 35% normal. In Arkansas, 23% was open compared to 36% normal; there was some rotting.

Cotton defoliation started in California's San Joaquin Valley and picking remained light in the Desert area. Arizona's crops showed rapid boll maturing and some defoliation.

**SOYBEANS:** Development of the soybean crop moved ahead despite the cool, wet weather. Frost in Iowa killed some soybeans in north central areas, but the crop needs 3 more weeks

of frost-free weather and dryer conditions. About 89% of Iowa soybeans have turned color and 57% are shedding leaves, while 45% are mature versus 58% normally. Soybeans in Ohio were 30% mature, about normal; in Indiana 25% and in Nebraska 20%, also about normal. In Minnesota 39% of the crop was mature versus 43% normal.

Harvest was barely underway in most producing areas, but was 14% complete in Illinois, well above last year and average.

**OTHER CROPS:** Sorghum harvest progressed well on the Texas' Low Plains but was only beginning on the High Plains. The crop statewide was 63% harvested compared to 49% normal. Elsewhere, Oklahoma was 16% finished and Kansas was 10% done, both ahead of schedule. Coloring and maturity were well above average in virtually all producing areas.

Burley tobacco harvest advanced to 78% complete in North Carolina and to 86% in Tennessee. Kentucky's Burley crop was 74% cut and Darks were 70% complete.

Peanuts were 61% dug in Georgia and 47% threshed; 61% dug and 52% combined in Alabama, and 32% harvested in Texas. Oklahoma's crop was 30% mature while 24% is normal.

Potato harvest was begun in Idaho. Michigan's crop was 50% dug in some areas and in Minnesota harvest was 23% complete. Digging is also well underway in Oregon and Washington.

California's rice harvest moved ahead slowly and other major producers ranged from 22 to 98% complete.

**FRUITS AND NUTS:** Picking of Red and Golden Delicious apples in the Northwest continued under ideal conditions. Harvest is also active in most other areas. New York grape harvest continued and in California picking of wine grapes was active. Most of California's raisins are laid and damage from earlier rains was moderate. Winter pear harvest was active in the Pacific Coast States. Valencia orange harvest in California is ending; tangerines and lime harvests are underway; and lemon picking is increasing slowly.

**VEGETABLES:** Lettuce harvest in New Jersey began while other vegetables were moving to market in good volume. In California supplies of broccoli, cauliflower, carrots, and lettuce were moderate to heavy; celery was lighter. Harvest of canning tomatoes reached its peak in California, but most other processing crops in the major States were in full swing. Florida's vegetables were in good to very good condition. In Texas seeding of some vegetable fields resumed, but dryer conditions are needed.

**PASTURES AND LIVESTOCK:** Pastures remained in good condition and improved in the Eastern States. In most of the Mountain and Pacific Coast States pastures and ranges continued to provide fair to good feed supplies. In Texas rains boosted fall grazing potential. Supplemental feeding continued necessary in Nebraska. Haying made good progress over most of the West. Livestock remained in good condition throughout the Nation.

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

Sept. 21, 1975

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 . . .	70	- 3	.1	-. 8	La. Baton Rouge . . .	77	0	.6	-. 3	Youngstown . . .	61	- 1	1.9	+ 1.3
Mobile . . .	76	- 1	1.0	-. 6	Lake Charles . . .	77	- 1	3.9	+ 2.9	OKLA. Okla. City . . .	64	- 8	.2	-. 7
Montgomery . . .	74	- 2	.4	-. 7	New Orleans . . .	77	- 1	.8	-. 6	Tulsa . . .	64	- 8	1.3	+ .3
ALASKA. Anchorage . . .	51	+ 4	.5	-. 1	Shreveport . . .	74	- 3	.6	-. 2	OREG. Astoria . . .	57	- 1	T	-. 7
Barrow . . .	---	---	---	---	MAINE. Caribou . . .	54	+ 1	.2	-. 6	Burns . . .	58	+ 0	.1	0
Fairbanks . . .	48	+ 4	T	-. 2	Portland . . .	56	- 2	.5	-. 3	Medford . . .	69	+ 2	5.0	T
Juneau . . .	51	+ 2	.7	- 1.0	MD. Baltimore . . .	66	- 2	.8	+ .1	Pendleton . . .	65	+ 3	0	-. 1
Kodiak . . .	---	---	---	---	MASS. Boston . . .	63	- 1	.1	-. 6	Portland . . .	65	+ 2	0	-. 4
Nome . . .	34	- 8	.4	-. 1	Chatham . . .	61	---	.1	---	Salem . . .	63	+ 1	0	-. 4
ARIZ. Flagstaff . . .	60	+ 3	T	-. 4	MICH. Alpena . . .	56	+ 1	1.1	+ .3	PA. Allentown . . .	61	- 3	.9	+ .1
Phoenix . . .	89	+ 6	0	-. 1	Detroit . . .	61	- 2	.6	+ .1	Erie . . .	60	- 1	1.4	+ .6
Tucson . . .	83	+ 3	0	-. 3	Flint . . .	60	0	1.0	+ .4	Harrisburg . . .	63	- 3	1.3	+ .7
Winslow . . .	70	+ 1	1.4	+ 1.2	Grand Rapids . . .	59	- 3	.9	+ .1	Philadelphia . . .	66	- 2	3.3	-. 4
Yuma . . .	91	+ 4	0	0	Houghton Lake . . .	56	0	.3	-. 5	Pittsburgh . . .	60	- 3	1.2	+ .6
ARK. Fort Smith . . .	68	- 7	1.5	+ .7	Lansing . . .	58	- 3	.3	-. 3	Scranton . . .	61	- 1	.8	+ .2
Little Rock . . .	67	- 6	.8	-. 1	Marquette . . .	57	0	.2	-. 6	R.I. Providence . . .	60	- 3	.6	-. 1
CALIF. Bakersfield . . .	81	+ 3	0	0	Muskegon . . .	58	- 3	.4	-. 4	S.C. Charleston . . .	75	0	1.5	+ .3
Eureka . . .	55	- 2	T	-. 2	S. Ste. Marie . . .	56	+ 2	.4	-. 5	Columbia . . .	75	+ 1	1.7	+ .7
Fresno . . .	77	+ 3	0	0	MINN. Duluth . . .	52	- 2	1.4	+ .7	Greenville . . .	69	- 2	4.2	+ 3.3
Los Angeles . . .	74	+ 1	0	0	Internat Falls . . .	52	0	.7	-. 1	S.D. Aberdeen . . .	59	+ 1	1.2	+ .8
Red Bluff . . .	77	+ 2	0	-. 1	Minneapolis . . .	56	- 3	.5	-. 1	Huron . . .	58	- 1	.5	+ .1
San Diego . . .	73	+ 3	0	-. 1	Rochester . . .	55	- 3	.2	-. 5	Rapid City . . .	57	- 2	0	-. 3
San Francisco . . .	60	- 4	T	-. 1	St. Cloud . . .	54	- 3	1.0	+ .4	Sioux Falls . . .	55	- 5	.4	-. 3
Stockton . . .	74	+ 2	0	-. 1	MISS. Jackson . . .	73	- 3	.4	-. 3	TENN. Chattanooga . . .	67	- 4	2.9	+ 2.0
COLO. Denver . . .	57	- 5	T	-. 3	Meridian . . .	75	0	.8	0	Knoxville . . .	69	- 2	.7	+ .1
Grand Junction . . .	65	- 2	T	-. 2	MO. Columbia . . .	60	- 8	1.1	0	Memphis . . .	71	- 2	1.3	+ .6
Pueblo . . .	63	- 2	0	0	Kansas City . . .	60	- 8	.1	-. 9	Nashville . . .	67	- 4	1.9	+ 1.2
CONN. Bridgeport . . .	65	- 1	1.2	+ .6	St. Louis . . .	62	- 7	1.2	+ .5	TEX. Abilene . . .	72	- 3	.8	+ .2
Hartford . . .	62	0	.3	-. 5	Springfield . . .	60	- 9	3.2	+ 2.2	Amarillo . . .	66	- 3	.6	+ .2
D.C. Washington . . .	68	- 2	.8	+ .1	MONT. Billings . . .	57	- 1	.2	-. 2	Austin . . .	77	- 1	2.8	+ 1.9
FLA. Apalachicola . . .	78	0	2.7	+ .5	Glasgow . . .	55	- 1	.2	0	Beaumont . . .	78	- 1	.6	-. 7
Daytona Beach . . .	80	+ 1	.4	- 1.3	Great Falls . . .	55	- 1	.2	-. 1	Brownsville . . .	82	+ 1	.1	- 1.2
Ft. Myers . . .	82	0	1.4	-. 7	Havre . . .	54	- 2	.3	0	Corpus Christi . . .	82	+ 1	.4	-. 8
Jacksonville . . .	78	0	3.1	+ 1.2	Helena . . .	51	- 3	.3	+ .1	Del Rio . . .	80	0	T	-. 8
Key West . . .	83	0	1.1	-. 7	Kalispell . . .	52	0	.4	+ .1	El Paso . . .	74	0	T	-. 3
Lakeland . . .	80	0	.5	-. 9	Miles City . . .	56	- 3	.5	0	Fort Worth . . .	76	- 1	.8	0
Miami . . .	84	+ 2	.5	- 1.6	Missoula . . .	53	- 1	.3	+ .3	Galveston . . .	79	- 1	.7	-. 7
Orlando . . .	82	+ 2	.8	-. 9	NEBR. Grand Island . . .	59	- 4	T	-. 6	Houston . . .	77	- 2	.2	-. 9
Tallahassee . . .	77	- 1	2.9	+ 1.3	Lincoln . . .	60	- 5	T	-. 7	Lubbock . . .	69	- 1	1.0	+ .5
Tampa . . .	83	+ 2	.6	-. 2	Norfolk . . .	58	- 4	T	-. 6	Midland . . .	72	- 3	.9	+ .5
W. Palm Beach . . .	81	- 1	4.6	+ 2.9	N. Platte . . .	59	- 2	1	-. 4	San Angelo . . .	74	- 2	.7	0
GA. Atlanta . . .	69	- 3	1.7	+ 1.0	Omaha . . .	60	- 3	.1	-. 6	San Antonio . . .	79	0	.2	-. 7
Augusta . . .	74	0	6.7	+ 5.9	Valentine . . .	58	- 2	0	-. 3	Victoria . . .	81	+ 1	T	- 1.1
Macon . . .	73	- 2	2.4	+ 1.7	NEV. Ely . . .	57	+ 1	0	-. 2	Waco . . .	78	0	2.2	+ 1.4
Savannah . . .	76	0	1.1	-. 2	Las Vegas . . .	84	+ 4	.9	+ .8	Wichita Falls . . .	70	- 6	.2	-. 5
HAWAII. Hilo . . .	75	- 1	1.0	0	Reno . . .	66	+ 6	T	-. 1	UTAH. Blanding . . .	62	- 1	.1	-. 1
Honolulu . . .	79	- 1	.1	0	Winnemucca . . .	62	+ 3	0	-. 1	Salt Lake City . . .	62	- 2	0	-. 1
Kahului . . .	77	- 1	.1	0	N.H. Concord . . .	55	- 4	.2	-. 5	VT. Burlington . . .	59	0	.6	-. 1
Lihue . . .	---	---	---	---	N.J. Atlantic City . . .	64	- 3	.9	+ .2	VA. Lynchburg . . .	65	- 3	1.7	+ .9
IDAHO. Boise . . .	63	+ 1	T	-. 1	Trenton . . .	67	- 3	.2	+ .1	Norfolk . . .	72	+ 1	.5	-. 4
Lewiston . . .	64	+ 1	0	-. 2	N.MEX. Albuquerque . . .	67	- 3	.2	+ .1	Richmond . . .	68	- 1	2.9	+ 2.1
Pocatello . . .	57	- 1	T	-. 1	Roswell . . .	71	+ 1	.5	+ .1	Roanoke . . .	66	- 1	3.6	+ 2.8
ILL. Cairo . . .	66	- 5	1.9	+ 1.1	N.Y. Albany . . .	61	0	1.1	+ .3	WASH. Colville . . .	57	- 1	T	-. 1
Chicago . . .	62	- 3	.5	-. 2	Binghamton . . .	58	- 2	1.2	+ .5	Omak . . .	58	- 4	0	-. 1
Moline . . .	60	- 4	T	-. 9	Buffalo . . .	59	- 2	1.6	+ .8	Quillayute . . .	57	0	T	- 1.3
Peoria . . .	59	- 6	1.1	+ .3	New York . . .	65	- 2	.8	+ .1	Seattle-Tacoma . . .	63	+ 4	T	-. 5
Rockford . . .	60	- 2	.2	-. 8	Rochester . . .	59	- 3	.9	+ .4	Spokane . . .	59	0	T	-. 2
Springfield . . .	62	- 5	1.8	+ 1.0	Syracuse . . .	57	- 5	.8	+ .2	Walla Walla . . .	64	- 1	0	-. 2
IND. Evansville . . .	66	- 2	.3	-. 3	N.C. Asheville . . .	65	- 1	1.8	+ 1.0	Yakima . . .	60	- 1	T	-. 1
Ft. Wayne . . .	61	- 3	.4	-. 2	Charlotte . . .	70	- 1	.3	-. 5	W.Va. Beckley . . .	60	- 2	1.1	+ .3
Indianapolis . . .	62	- 4	.5	-. 2	Greensboro . . .	70	+ 1	.2	-. 6	Charleston . . .	59	- 8	.9	+ .2
South Bend . . .	61	- 2	.3	-. 4	Hatteras . . .	75	+ 2	2.4	+ 1.1	Huntington . . .	65	- 2	1.6	+ .9
IOWA. Burlington . . .	60	- 5	.1	-. 8	Raleigh . . .	70	0	.1	-. 8	Parkersburg . . .	64	- 3	1.3	+ .7
Des Moines . . .	60	- 3	T	-. 7	Wilmington . . .	75	+ 1	3.1	+ 1.8	WIS. Green Bay . . .	57	- 1	1.2	+ .4
Dubuque . . .	57	- 4	.2	-. 9	N.DAK. Bismarck . . .	54	- 2	.9	+ .1	La Crosse . . .	57	- 4	.1	-. 7
Sioux City . . .	57	- 5	T	-. 7	Fargo . . .	59	+ 2	.9	+ .5	Madison . . .	60	+ 1	.5	-. 3
KANS. Concordia . . .	60	- 6	.2	-. 5	Williston . . .	59	+ 4	1.0	+ .7	Milwaukee . . .	60	0	.1	-. 6
Dodge City . . .	66	- 2	T	-. 4	OHIO. Akron-Canton . . .	60	- 3	2.0	+ 1.4	WYO. Casper . . .	50	- 8	.1	-. 1
Goodland . . .	62	- 1	.1	-. 2	Cincinnati . . .	62	- 5	.8	+ .2	Cheyenne . . .	53	- 4	.2	0
Topeka . . .	62	- 5	T	-. 8	Cleveland . . .	60	- 3	1.4	+ .8	Lander . . .	53	- 4	T	-. 3
Wichita . . .	61	- 9	.4	-. 5	Columbus . . .	64	- 1	1.8	+ 1.2	Sheridan . . .	53	- 4	.2	-. 1
KY. Lexington . . .	62	- 6	1.7	+ 1.1	Dayton . . .	62	- 4	.8	+ .3	P.R. San Juan . . .	---	---	---	---
Louisville . . .	66	- 2	.8	+ .1	Toledo . . .	59	- 4	.6	0					

The Weekly Weather and Crop Bulletin is published by the National Weather Service, NOAA, and Statistical Reporting Service, USDA.  
Standard copy for the Bulletin is

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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:** Cool week with temperatures averaging 3° below normal. Scattered showers through the week with heavier and more widespread activity midweek. Amounts mostly heavy over the southern half, light and spotty north.

Scattered rains slowed harvesting of crops. Principle activities as weather permitted were insect controls, harvesting corn, preparing fields for fall and winter crops. Corn crop good condition, 86% matured, 28% harvested, 18% harvested 1974, average 13%. Soybeans good condition, 43% leaves turning yellow, 13% matured, insects and diseases present. Cotton condition good, 18% with open bolls, 25% 1974, insects high. Peanut condition good, 61% dug, 52% combined. Hay harvest 86%. Soil moisture adequate. Pastures good.

**ALASKA:** Tanana Valley light frost early week, slight precipitation late week. Temperatures averaged 5 degrees above normal. Matanuska Valley light frost early week, cloudy and wet remainder of week. Temperatures averaged 3 degrees above normal. Kenai Peninsula light locally hard frost early week, cloudy and wet middle and late week.

Harvest nears completion in Tanana Valley. Continued rain showers in Matanuska Valley and Kenai Peninsula hampering all harvest operations. Ground moisture supply reported adequate to surplus throughout the Railbelt.

**ARIZONA:** Thundershowers northern half. Dry, cool air later in week.

Cotton good progress. Late irrigation continues, little harvesting. Rapid boll maturing, some defoliation. Harvest grain sorghum limited. Harvest alfalfa seed nearing completion. Final preparations, plantings spring sugarbeets. Irrigation alfalfa hay continues. Renovation, replanting underway, west. Lettuce thinning underway Yuma county. Rain delayed green chili harvest, Cochise County. Lettuce central areas making good growth. Other mixed vegetables seasonal progress. Lemon harvest continued limited Yuma. Limited picking underway Salt River Valley, no shipments. Cattle mostly good condition. Dry ranges lower elevations. Forage, water supplies normal mountain ranges.

**ARKANSAS:** Cool early, warmed late, cool week-end. Temperatures ranged 4 to 8° below normal. Normals 63 to 72°. Extremes 90 to 43°. Precipitation widespread. 2.0 in. west. Greatest amounts 5.5 in. Fieldwork: 3.0 days suitable. Adequate soil moisture. Cotton fair. Weather slowed boll opening, stimulated new top growth. Some boll rot. Insect infestations continued to build. Defoliation continued. Bolls open 23%, 18% 1974, 36% average. Rice harvest slow, much lodging. Many fields ready for harvest, 22% harvested, 12% 1974, average 16%. Soybean crop responded cooler temperatures, adequate soil moisture. Crop in good condition. Late soybeans blooming, setting pods. Early varieties dropping leaves. Sorghum good condition, harvest continued. Some wheat pasture up. Planting continued, good germination. Little hay cut. Grasses good growth. Grasslands providing adequate to surplus forage. Cattle good condition, gaining weight.

**CALIFORNIA:** Scattered showers, thundershowers northern mountains through 16th and southern Sierra Nevada and southeast deserts 16th and 17th. Night and morning low clouds coastal areas, otherwise, fair through period. Temperatures averaged slightly below normal north and central coasts, near normal Sacramento Valley, and slightly above other areas.

Harvest field corn, rice, dry beans increasing slowly. Digging sugarbeets full swing Central Coast, Central Valley. Cotton defoliation started San Joaquin Valley, limited picking desert. Late stone fruit harvest approaching end. Almond and winter pear harvests active. Apple picking increasing as size, color improve. Prune harvest slowing. Walnut harvest increasing slowly. Most raisins laid. Delivery to packers beginning. Damage from 13th rain light to moderate. Tokay, other late table grape harvests continue. Wine grape picking active. Grapefruit, Valencia orange harvests near end. Harvesting limes, tangerines. Lemon harvest slowly increasing. Broccoli, cauliflower, carrots, lettuce moderate to heavy. Celery lighter, sweet corn increasing southern California. Bell pepper heavy, potato digging continues Stockton. Fresh market tomato heavy. Canning tomato peak harvest. Range feeds dry, supplies fair. Supplemental feeding started. Cattle condition good as calving fully underway Central Valley. Cattle, sheep grazing stubble and some movement to market north. Stock water supplies adequate, soil moisture depleted.

**COLORADO:** Temperatures 70's to 80's lower elevations, 50's to 70's mountains, cooler end of week. Snow high mountains, scattered showers low mountains, eastern plains. End of week first general frost northeast.

Corn silage 58% harvested, 70% 1974, 57% average. Grain corn 96% in or past dough stage; 81% dented, 70% 1974, 62% average. Winter wheat 68% seeded, 70% 1974, 73% average, 33% emerged. Topsoil moisture short. Sorghum 67% colored, 19% ripe. Third cutting alfalfa 59%, spring barley 80% harvested. Ranges and pasture fair to good except southeast. Livestock good condition.

**FLORIDA:** Partly cloudy skies, near normal temperatures except western panhandle below normal. Rainfall moderate to locally heavy. Heaviest rains south, exceeding 3.00 in. most sections. Soil moisture mostly adequate. Corn, peanut harvest active. Soybeans starting. Haying interrupted by showers. Sugarcane good condition. Cutting for seed continues. Land preparation small grains active. Pastures providing good grazing conditions. Insects becoming major problem some areas. Cattle, calves good condition. Citrus grove condition continues excellent. Soil moisture adequate. Color break starting, grapefruit harvest active. Vegetable crop conditions good to very good. Rain, wind damage minor, south. Light harvest squash, pole beans, north. Sweet corn harvest, south, quality fair. Planting active most crops. Cucumbers, tomatoes setting fruit. Peppers blooming.

**GEORGIA:** Moderate midweek rains averaging 1.00 to 2.50 in., except middle area where amounts were

less than 0.50 in. Temperatures averaged 5° below normal north and 2° subnormal south. A few light showers over weekend except locally heavy rains east central.

Soil moisture mostly adequate to surplus. Fieldwork slowed, 3 days suitable. Peanut harvest rapid progress, 61% dug, 47% threshed, 1974 57% and 42%, average 82% and 72%. Condition and yields good. Corn 30% harvested, 1974 22%, average 22%, condition good. Cotton condition declined, mostly fair to good with 1% harvested, 1974 4%, average 13%. Some defoliation. Soybeans fair to good, 2% harvested, 1974 1%, average 1%. Insects still a problem. Tobacco marketing continued. Pecans fair condition. Small grains, wheat 3% seeded, rye 5%, other 6%. Haying and silage active between showers. Pastures improved, mostly good. Cattle and hogs good. Apple harvest active.

**HAWAII:** Weather favorable to crop growth. Most sections remained dry, except some light showers higher elevation. Heavy irrigation vegetable and fruit crops needed. Water supply low in reservoirs on Kauai and Oahu. Rationing of irrigation water continuing on sugar plantations. Nonirrigated fields show signs of stress. Vegetable supplies adequate. Melon production active from Waianae and Kahuku areas Oahu. Banana production moderate to heavy.

**IDAHO:** Temperatures first week continued warm trend. Cold front midweek bringing cooling trend, below normal rest week. Averaged from 4° below normal to 4° above. Scattered, light precipitation.

Harvest wind-up stage small grains. Limited potato harvest. Sugarbeet harvest near. Powdery mildew problem under control. Winter wheat 90% harvested, 100% 1974. Spring wheat 85% harvested, 100% 1974. Dry beans 75% swathed, 80% 1974; 25% combined, 50% 1974. Alfalfa second cutting 95% complete, 100% 1974. Winter wheat 25% seeded, 20% 1974. Winter barley 25% seeded 15% 1974. Pasture and ranges provide adequate forage. Livestock doing well.

**ILLINOIS:** Temperatures 3 to 7° below normal. Precipitation 0.10 to 0.50 in. north, over 1.00 in. elsewhere.

Corn mostly good to excellent; harvest 7% complete, 1974 1%, average 2%. Soybeans mostly good to excellent; shedding leaves 82%, 1974 21%, average 44%; 14% combined, 1974 2%, average 5%; cool wet weather delaying harvest. Alfalfa hay mostly good to excellent; third crop 87% cut, 1974 88%, average 81%. Seeding 1976 winter wheat 5% complete; 1974 5%, average 10%. Pastures mostly good to excellent. Soil moisture 2% short, 74% adequate, 24% surplus. Fieldwork: 4.5 days suitable.

**INDIANA:** Cold, cloudy week. Rainfall averaged 0.33 to 0.67 in. Temperatures ranged 42 to 80°. Highs below normal, lows near normal. Sunshine 30% of possible. Fieldwork averaged 4.0 days. Topsoil and subsoil moisture adequate. Corn 65% mature, 1974 25%, average 50%. Soybean combining 5% complete, par with average, week ahead 1974. Soybeans 25% mature. Wheat seeded 5%, same as 1974, 10% average. Silos 60% filled, 1974 30%. Tobacco 60% harvested, 1974 40%. Pastures fair to good unchanged.

**IOWA:** Temperatures 4 to 6° below normal; precipitation well below normal.

Frost kill September 13th on soybeans severe in localized areas in north central. Crops maturing rapidly but need warmer dryer weather. Still

need 2 to 3 weeks of frost free weather. Corn harvest has begun; mostly in the southern districts. Lodged corn is a problem. Yields vary widely. Percent of corn mature 89%, 1974 57%, average 73%. Condition mostly fair to good. Soybeans, 89% leaves turning. Percent shedding leaves 57%, 1974 48%, average 59%. Soybeans mature 45%, 1974 39%, average 58%. Condition mostly good. Wheat seeded 27%, same as 1974, average 37%. Hay and pasture fair to good. Topsoil moisture adequate, subsoil moisture mostly adequate. Fieldwork averaged 6 days suitable.

**KANSAS:** Intermittent light rain through 19th and cool after midweek. Below normal temperatures 64° northwest, 70° southeast, south central. Rain limited north central, eastern. Sorghum 75% showing color, 70% average, 55% 1974, mature 35%, average 30%, 1974 15%, harvested 10%, 5% average and in 1974. Corn 65% mature, same 1974, 60% average; 15% harvested, 10% 1974 and average. Wheat planted, 20%, same as average, 30% 1974. Alfalfa 4th cutting 30% completed, 35% 1974 and average. Barley 10% planted, same as average, 20% 1974.

**KENTUCKY:** Heavy rain in southeast midweek averaged 1.75 in. Greatest weekly rainfall 4.08 in. at Somerset. Elsewhere rainfall averaging 0.50 to 1.50 in. Temperatures averaged near seasonal normal of 65°.

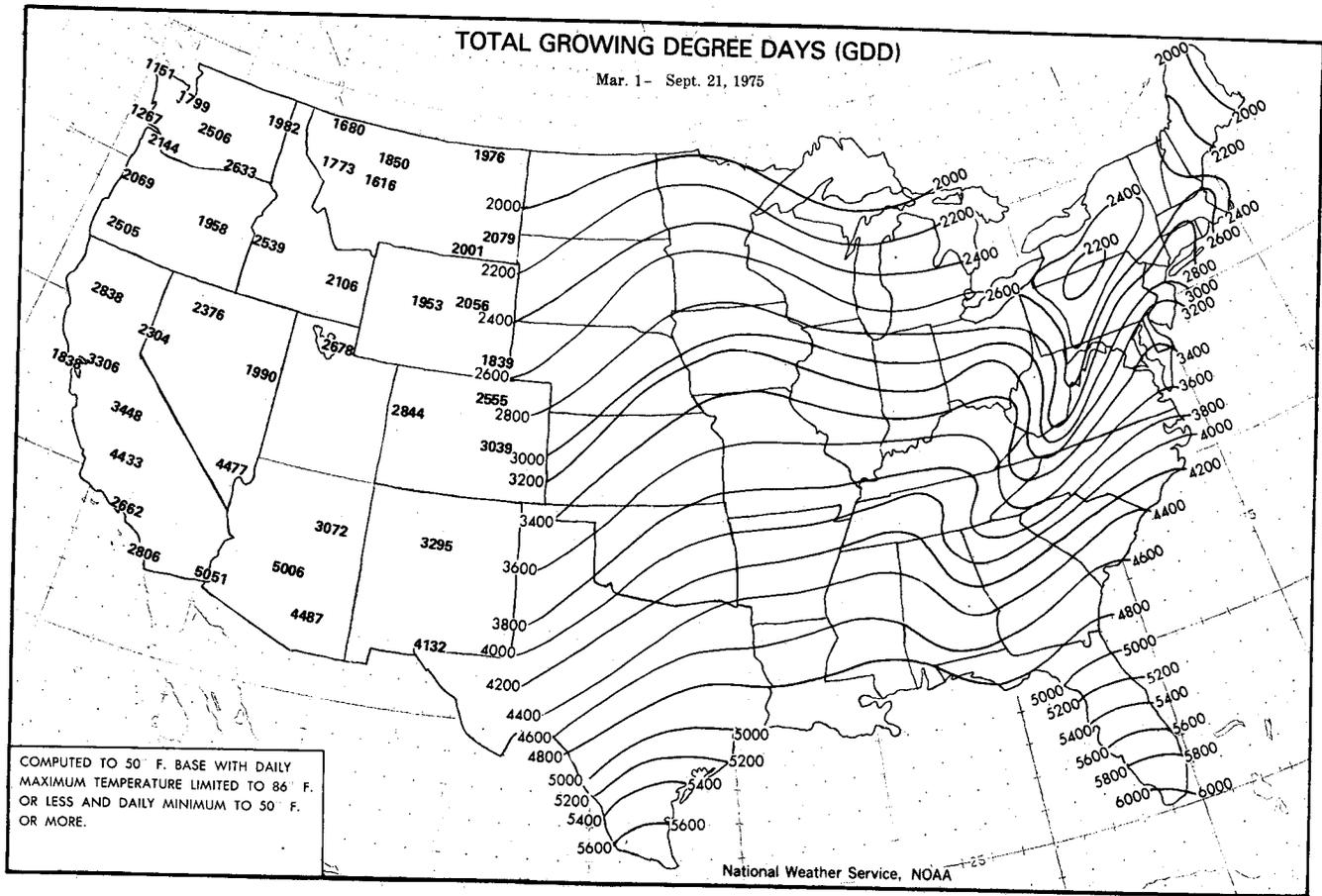
Soil moisture 83% adequate, 10% surplus, 7% short. Farmwork slowed by inclement weather, 3.5 days favorable. Activities: Tobacco and corn harvest, haying and land preparation, seeding small grains, renovating and fertilizing pastures. Burley tobacco 74% cut, darks 70%; 1974 62% and 76%; average 71% and 76%. Houseburn light on 12% of crop. Corn 43% mature, 5% harvested; 1974, 39% and 3%. Soybeans 46% shedding leaves or beyond, 23% 1974, 20% average. Fall wheat seeding 10% complete. Pastures improved, 84% of normal.

**LOUISIANA:** Temperatures 1 to 3° below normal south; 5 to 7° below normal north. Rain statewide 16th; greatest 1-day rainfall 4.30 in. Oberlin. Temperature extremes 93° 19th; 56° 21st. Soil moisture adequate; surplus coastal. Statewide 3.8 days fieldwork. Main activities insect control, rice, soybean combining. Planting sugarcane, hay making, digging sweetpotatoes. Soybeans fair to good. Looper damage moderate to heavy. Harvesting early varieties central, northern parishes. Late fields weedy. Cotton fair to good; 25% open, 40% 1974. Defoliation beginning. Rice 85% harvested, 93% 1974, 85% average. Harvest virtually complete southwest, 15% northeast. Corn 67% harvested. Sugarcane stands, growth excellent; 20% planted. Delayed by rains. Sweetpotatoes fair to good, 40% dug. Hay 60% cut. Pastures average. Cattle good.

**MARYLAND & DELAWARE:** Temperatures averaged 6 to 8° below normal. Highs, low 70's to mid-80's. Lows, low 30's to high 40's. Precipitation 0.22 to 2.65 in. Heaviest amounts were scattered. Corn 80% matured, 67% 1974, 70% average. Corn for grain 20% harvested, 13% 1974, 20% average; silage harvested 80%, 60% 1974, average 68%. Frost damage some fields at higher elevations western. Soybeans 20% leaves shed, 8% 1974, 33% average. Tobacco 85% harvested, 90% 1974, and 93% average. Fall apple harvest underway, color good.

**MICHIGAN:** Temperatures 4° below average in south to 4° above in north. Rain late in week: 0.20 to 1.50 in.

Corn 90% dented, 84% 1974, and 83% normal.



Corn 40% mature; harvest started in south. Silage harvest 35% done, 23% 1974 and 37% normal. Soybeans 40% shedding leaves, 12% 1974, 40% normal. Mature 10%, harvest beginning. Dry beans two-thirds done in eastern "thumb"; central counties one-third. Potato digging Bay area half done; 30% elsewhere. Sugarbeet harvest beginning. Third cutting alfalfa 35%, 52% 1974, and 42% normal. Pasture feed average to above average. McIntosh apple 35%; 10% 1974. Other fall apples less than 10%. Grapes 10% southwest. Plum and pear complete. Cabbage 80%. Cauliflower 60%.

**MINNESOTA:** A cool week. Temperatures little above normal upper northwest, 2 to 4° below normal elsewhere. Extremes: 83 and 24°. Precipitation: 1.00 to 1.25 in. northeast; 0.50 to 0.75 in. west; 0.30 in. southeast. Small grain harvest nearing completion. Flax 66% combined. Fall potato digging 23% completed, 1974 33%, average 31%. Sugarbeet lifting underway on limited scale. Corn silage 64%, cut slightly ahead average. Corn for grain 47% mature, 1974 33%, average 68%. Soybeans 39% mature, 1974 51%, average 43%. Few early fields corn for grain, soybeans combined. Top soil moisture mostly adequate, subsoil short to adequate.

**MISSISSIPPI:** Temperatures 5-10° subnormal north and central, 3-5° subnormal south. Extremes: 93 and 43°. Greatest 24-hour rainfall 3.78 inches at Bay Springs on 17th. Soil moisture mostly adequate. Fieldwork: 3.9 days suitable. Cotton 41% open bolls, 35%

average; 1% harvested, 6% average. Soybeans 57% turning, 27% 1974; 28% shedding, 14% 1974; 8% mature, 11% 1974, 16% average; 1% harvested, 3% 1974, 4% average. Rice 64% mature, 53% 1974; 18% harvested, 13% 1974. Corn 77% mature, 81% average; 16% harvested, 27% 1974, 17% average. Sorghum 68% mature, 34% harvested. Wheat 13% and oats 14% planted. Harvested: Sweetpotatoes 43%, peanuts 49%, hay crops 78%, corn silage 85%, sorghum silage 72%. Cotton in poor to fair condition. Other crops fair to good.

**MISSOURI:** Temperatures averaged 6° below normal. Precipitation above normal with 0.35 in. northwest to 1.74 in. west Ozarks.

Soil moisture adequate to surplus. Fieldwork: 3 days suitable. Cool wet weather slowed crop maturity. Corn 81% mature, 43% 1974, 57% average. Corn harvest 21% complete, 7% 1974, 9% average. Soybeans 47% turning color, 25% 1974, 44% average. Soybean harvest 5% complete, 1% 1974, 3% average. Grain sorghum 69% mature, 37% 1974, 49% average. Grain sorghum harvest 20% complete. Cotton 62% open bolls, 20% 1974, 31% average. Cotton harvest 4% complete. Seeding winter wheat 7% complete. Plowing for spring planted crops 5% complete. Pastures fair to good.

**MONTANA:** Week began and ended warm with colder temperatures midweek. Moderate precipitation 16th, 17th, and 18th, with most amounts near or above normal. General freeze all divisions latter part of week.

Grain harvest slowed by rains. Spring wheat

75% done, 1974 90%, and normal 95%. Barley 60% complete, 1974 95%, normal 95%. Oats 70% done, 1974 95%, normal 98%. Potato digging 10% done. Corn silage 40% chopped. Flaxseed harvest 85% complete. Dry beans 25% done. Second cutting alfalfa 75% cut. Winter wheat seeding 45% done--close to normal but behind last year's 60%. Sugarbeet digging to start October 1. About 15% cattle and 20% sheep moved from summer ranges.

NEBRASKA: Temperatures above normal first three days. Remainder 7 to 22° below normal. Rainfall sparse.

Topsoil moisture supplies 84% short, 16% adequate. Subsoil moisture supplies 94% short and 6% adequate. Same period 1974, topsoil 79% short, subsoil 87% short. Wheat 65% seeded, 1974 55%, normal 60%. Corn 70% mature, 1974 50% and normal 65%; 5% harvested to date, slightly ahead of normal. Sorghum 15% harvested, well above normal, 70% ripe, 1974 30% and normal 35%. Soybean leaves 55% shed, 1974 45%, normal 60%. Soybeans 20% mature, equal 1974 and normal. Limited harvesting begun. Alfalfa fourth cutting 20% complete. Dry bean harvest progressing well. Pasture, range feed supplies 83% short. Supplemental feeding continues.

NEVADA: Numerous thunderstorms extreme south caused flooding some localities with strong winds. Light precipitation elsewhere. Temperatures averaged several degrees above normal most areas. Extremes: 99° Las Vegas, 17° Mountain City. Third cutting alfalfa hay continued west and central. Sixth cutting well along southern valleys. Livestock mostly good condition.

NEW ENGLAND: Temperatures on 15th 10 to 20° below normal, warming through September 19th. Showers 16th, 17th and 20th dropped up to 0.50 in., mostly northern regions.

Silage chopping active, excellent yields most areas. Potato harvest full swing. Aroostook, Maine schools recessed on 19th. Growing season ended for vegetables. Cranberry harvest and apple picking underway.

NEW JERSEY: Temperatures averaged 2° below normal. Extremes: 32° at Long Valley and 83° at Hammonton and Glassboro. Rainfall averaged 1.10 in. north, 0.53 in. central and 0.25 in. south. Heaviest 24-hour total 1.22 in. at Belvidere Bridge.

Estimated soil moisture, in percent of field capacity averaged 90 north, 80 central and 51 south. Iceberg lettuce harvest beginning. Sweet corn and tomatoes moving to local markets. Cabbage, pepper and squash supplies moderate. White potato harvest about 75% complete. Apple and cranberry harvest active. Red delicious apples in good supply. Peach harvest complete. Corn silage making well advanced. Harvest of corn for grain begun. Early soybeans ready for combining. Grain and cover crop seeding continues.

NEW MEXICO: Dry and warm through September 19th. Rather general showers 19th through 21st, with rainfall totals averaging near 0.5 in. Much cooler all sections over the weekend with widespread cloudiness. Temperatures averaged near normal.

Soil moisture adequate. Cotton fair, growth hindered by cool temperatures in south. Boll opening increasing southern areas. Alfalfa good, 4th cut 85% done south, just starting north, 5th cut 20% done extreme south. Sorghum good, 85% in dough. Corn good, silage harvest continuing. Winter wheat seeding 65% done southeast, just starting north. Barley planting

continued. Apples 15% picked extreme north. Pecans good in Mesilla Valley. Sunflowers good. Ranges mostly fair. Good where rains abundant. Livestock good.

NEW YORK: Temperatures near normal. Extremes: 80 and 28°. Below normal rain southeast, well above near Great Lakes and east central, and moderate elsewhere. General frost 15th north of Mohawk Valley. Scattered frost other interior sections. Cool temperatures gave way to milder weather late in week.

Cool, wet week delayed fieldwork. Soil moisture adequate to surplus except Long Island. Third cutting alfalfa delayed, over 50% done. Corn silage 33% complete. Scattered light frost promoting corn maturity. Dry beans 15% harvested. Long Island potato harvest continues, some going into storage. Upstate potato harvest delayed. Onions mostly harvested, now moving into storage. McIntosh quality and color good. Niagara grapes being harvested.

NORTH CAROLINA: Temperatures 3 to 5° below normal. Rainfall above normal except light Piedmont. Days suitable fieldwork 3.1. Soil moisture 4% short, 70% adequate, 26% surplus. Flue-cured tobacco harvest virtually complete. Burley tobacco harvest 78% complete, 1974 54%. Corn 40% combined, 1974 31%, average 22%. Peanuts 3% dug, 1974 1%, average 4%. Sweet potatoes 23% dug, 1974 24%. Apples 47% picked, 1974 50%, average 49%. Cotton, soybeans improved slightly. Cotton 14% defoliated. Pastures good to fair. Peanuts improving, fair to good. Sweetpotatoes apples mostly good to fair. Small grain 9% planted, 1974 6%, average 10%.

NORTH DAKOTA: Temperatures normal, ranging 3 to 5° above normal. Rainfall above normal except southwest. Weekend warmer, little rain. Moisture slowed small grain harvesting. Hard spring wheat combining 95% complete, 85% 1974, 92% average. Durum 88%, 69% 1974, 83% average. Oats 98%, 91% 1974, 96% average. Barley 99%, 90% 1974, 96% average. Potato digging, sugarbeet lifting, silage cutting underway. Corn and soybeans affected some areas by frost. Livestock good condition.

OHIO: Cool, wet most of week. Rain every day except 21st. Range: 2.02 in. northeast, 0.60 in. northwest. Near to well below seasonal temperatures most areas. Extremes: 79° southeast, 31° northwest.

Little harvesting or seeding progress due to daily rainfall. Corn 75% mature, 50% 1974, and 55% normal; harvest remains well below 5%, same as 1974, normal 5%. Soybeans 30% mature, 25% 1974 and 30% normal; less than 5% harvested, 5% 1974 and normal. Winter wheat remains less than 10% seeded, 10% 1974, 15% normal. Barley over 10% seeded, 30% 1974, 35% normal. Harvest completed: Corn silage 55%, 40% 1974, 50% normal; potatoes remain at 45%, 50% 1974 and normal; 3d cutting alfalfa 80%, 65% 1974 and normal; tobacco 80%, 30% 1974, 65% normal. Sugarbeet harvest to begin this week if weather permits. Soil moisture supplies 24% adequate, 76% surplus. Fieldwork less than 3 days favorable.

OKLAHOMA: Temperatures averaged much below normal. Precipitation averaged from 0.10 in. Panhandle to 2.66 in. northeast. Weekend cool with rain most areas.

Winter wheat planting delayed lack topsoil moisture some places, excess moisture others.

State wheat crop 8% seeded, 1974 31%, average 24%. Sorghum 16% harvested, 1974 11%, average 10%. Peanuts 30% mature, 1974 20%, average 24%. Soybeans 17% mature, 1974 14%, average 16%. Corn harvest 18% complete, about one week behind 1974 and average. Cotton lagging behind with 3% open bolls, 1974 21%, average 20%. Fifth cutting alfalfa hay beginning some areas, fourth cutting 65% complete. Livestock and range condition mostly good.

OREGON: Temperatures 3 to 7° above normal interior, normal along coast. Extremes: 100, 30's. Precipitation scattered first of week, generally less than 0.10 in. Willamette Valley remained dry.

Spring grain harvest 90% completed. Fall land preparation and seeding progressing. Lack of moisture holding up seeding in some areas. Corn silage harvest underway. Red clover seed harvest continues. Haying activity is light. Alfalfa seed harvest underway. Winter pear harvest underway most areas. Harvesting Red and Golden Delicious apples. Prune harvest starting, peaches are finishing. Filbert, walnut crops look good. Most vegetables being harvested. Potato harvest beginning in west, south and central areas. Ranges and pastures fair to good. Some areas suffering from lack of moisture.

PENNSYLVANIA: Warming trend climaxed 20th when early morning lows in 50's and afternoon highs in 80's. Extremes: 83 and 36°. Weekly temperatures near normal. Rain west 5 or more days. Weekly rainfall 1.00 to 1.50 in. west, 2.00 in. Lower Susquehanna Valley. Other 0.50 to 0.75 in. Above normal rainfall west and central 3 of last 4 weeks.

Soil moisture adequate to surplus, north mostly surplus. Harvesting apples, tomatoes, tobacco. Filling silos, plowing, winter grain seeding. Tobacco 72% cut, 85% 1974. Potatoes 47% dug, 40% 1974. Corn 31% mature, 52% dented, 15% 1974. Ensilage corn 37% harvested, 30% 1974. Fall plowing 55% done, 51% 1974. Barley 47% sown, 38% 1974. Wheat still 30% seeded. Little hay made, quality poor to fair.

PUERTO RICO: Island rainfall averaged 9.82 in. Highest weekly total 26.79 in. at Sabana Grande. Highest 24-hour total 14.00 in. at Sabana Grande. Temperatures averaged about 78° on coasts and 73° interior. Extremes: 92 and 56°.

Tropical Storm Eloise north of Puerto Rico 15th and 16th caused torrential rains and gusty winds. Rain totals up to 25.00 in. Wind damage occurred to coffee, tobacco and citrus as well as heavy erosion caused loss of coffee trees, sugar cane and food crops. Pasture zones and tobacco seedlings also inundated. Field operations stopped due to destruction of access roads and ridges.

SOUTH CAROLINA: Temperatures ranged below normal early to above thereafter. Average 1° above normal. Rainfall above normal. Very heavy midweek.

Crop condition improved with rainfall. Cotton condition down. Corn harvest 54% 1975, 44% 1974, 38% average. Cotton harvest 2% 1975, 4% 1974, 2% average. Soybean turning color 30% 1975, 19% 1974, 23% average; shedding 11% 1975, 6% 1974, 8% average.

SOUTH DAKOTA: Frost scattered areas west. Temperatures averaged from 1° above to 8° below normal. Extremes: 93 and 25°. Only significant precipitation in central and east.

Harvest of soybeans and sorghum started southeast. Soybeans 84% shedding leaves, 1974 82%, normal 80%. Sorghum 91% showing head color, slightly ahead of 1974 and normal. Corn 84% mature,

safe from frost, 1974 75%, normal 83%. Winter wheat 86% seeded, 1974 67%, normal 80%. Rye 85% seeded, 1974 53%, normal 69%. Fall plowing 77% complete, 1974 67%, normal 67%. Some livestock moved into feedlot east and into winter pasture west. Yearling and cow marketings increasing.

TENNESSEE: Rainfall nearly every day. Amounts from 0.10 to 4.50 in. Temperatures averaged 1 to 2° below normal.

Cotton in poor condition due to boll weevil infestation and excessive moisture. Open bolls 28%, 1974 19%, average 32%. Picking to start this week. Soybeans 4% mature, 1974 2%, average 8%. Good condition but needs warm weather for maturity. Corn 12% harvested, 1974 6%, average 12%. Silage harvest near completion. Burley tobacco 86% harvested, 1974 75%, average 85%. Small grain seed progress near normal. Wheat sown 15%, 1974 13%, average 16%. Late hay crop short. Cattle moving to market in large numbers.

TEXAS: Showers, thunderstorms central, south, southeast. Cold front Panhandle 18th accompanied by thunderstorms. Precipitation above normal all but extreme west, southwest, extreme south. Rainfall 0.25 to 0.75 in. above normal. Temperatures 5 degrees below normal Panhandle, 1 degree above normal extreme south.

Cold, wet weather stopped planting, harvesting activity. Excellent moisture available for planting wheat, oats as field conditions permit. Cold, wet weather caused cotton on High Plains to shed. Losses yield, quality expected. Harvest good progress Blacklands before rains stopped all progress. Cold, wet weather High, Low Plains caused leaf shedding, yield prospects declined. Early harvest underway Trans-Pecos, Edwards Plateau. Corn harvest making good progress High, Low Plains. Silage harvest complete High Plains. Sorghum harvest making good progress Low Plains, in early stages High Plains. Peanut harvest making good progress south central on early crop. Late crop making excellent growth. Rains provided moisture seeding rest of wheat crop. Northern High Plains need more rain. Early sowed fields up but grazing not available. Major crops percent harvested: Cotton 16, 1974 20, 3 yr. average 19; corn 36, 1974 47, 3 yr. average 55; sorghum 63, 1974 53, 3 yr. average 49; rice 98, 1974 90, 3 yr. average 89; peanuts 32, 1974 26, 3 yr. average 29. Major crops percent planted: wheat 22, 1974 50, 3 yr. average 61; oats 19, 1974 23, 3 yr. average 32.

High Plains: Cabbage, carrots, cucumbers, pumpkins, peppers being harvested. North: Planting turnips, spinach greens, parsley underway. Sweetpotato harvest continues east, upper coast. Light supplies tomatoes, peppers, eggplant, squash, peas. San Antonio-Winter Garden: Cucumber, squash harvest in progress. Snap beans approaching maturity. Spinach planting continues. Lower Rio Grande Valley, Coastal Bend: Vegetable seeding resumed few fields, most growers waiting for drier conditions. Pecans nearing maturity. Early varieties southern part of State starting to crack. Citrus trees good to excellent condition. Scattered picking oranges continues. No volume expected until mid-October.

Good rains many areas give pastures extra boost for fall grazing. Some localities short stock water but grazing fair. Livestock good condition. Culling continues but ranchers reluctant to ship. Ticks, screwworms, mosquitoes causing problems from Low Plains southward.

UTAH: Few isolated afternoon, evening showers and thundershowers early week. Accumulated amounts moisture light to moderate. Little or no moisture late week. Average temperatures variable ranging from 3° below normal to 4° above. First damaging frost of season northern valleys late week.

Winter wheat planting 28% complete. Alfalfa hay 3d cutting 35% harvested. Corn silage harvest beginning. Harvest of onions, potatoes underway. Tomatoes first picking, light yield. Sweet corn harvest nearing end. Sugarbeet prospects down from last year. Fall winter range feed prospects 93% normal. Livestock sales increasing.

VIRGINIA: Temperatures averaged below normal. Extremes: 88 and 35°. Scattered showers, thunderstorms mostly latter half of period averaging about 1.50 in.

Fieldwork: 3.8 days favorable. Topsoil moisture 66% adequate, 29% surplus, 5% short. Harvest progress of fall crops: Corn 15%, 1974 15%, average 18%; Flue-cured tobacco 88%, 82% 1974; fire-cured tobacco 83%, 77% 1974; burley 82%, 63% 1974; sun-cured 80%, 86% 1974; apples 24%, 30% 1974, average 29%. Silage harvest very active as weather permitted. Peanut digging started, will not be general until October 1. Early planted soybeans showing signs of maturity. Some hay harvested. Pasture conditions improved. Fall vegetable harvest continued. Small grain seeding: wheat 4%, 5% 1974, average 5%; barley 11%, 11% 1974, average 13%; oats 11%, 16% 1974, average 14%.

WASHINGTON: West: Temperatures 1 to 3° above normal. Precipitation coast northern Puget Sound subnormal. Picking blueberries. Harvesting sweet corn although much still immature. Digging carrots. Harvesting cauliflower, lettuce, cucumbers, beets, silage corn. Planting cabbage, pastures.

East: Readings 1 to 4° above normal. Picking Golden Delicious apples, winter pears, early grapes. Excellent weather for Red Delicious coloring. Harvesting dry beans, potatoes, sweet and silage corn, alfalfa and red clover seed, hops. Soil moisture ideal for seeding in summer-fallow, some recrop. Other activities: fertilizing, preparing seed beds, burning bluegrass seed fields.

Alfalfa 3d cutting limited, 4th cutting underway. Cattle on ranges, pastures, stubble ground.

WEST VIRGINIA: Scattered frost central, northeast. Precipitation near normal. Temperatures near normal.

Favorable workdays 3.6. Soil moisture 8% short, 73% adequate, 19% surplus. Main fieldwork: haying, silage cutting, mowing pasture. Potatoes 68% dug. Second cutting hay 88% complete, 3d 51%. Tobacco 81% harvested. Corn good to fair: 77% dough, 49% dented, 44% mature. Pasture mostly good.

WISCONSIN: Temperatures 4 to 5° subnormal. Extensive cloud cover, very cool weekend. Rainfall heaviest 17-18th north, central, nearly 1.00 in. Less than 0.50 in. south.

Grain corn safe from frost. Scattered frost low areas 13th touched leaves. Silo filling 30% done, 1974 20%, normal 25%. Better tonnage, quality silage except drought stricken corn. Early corn testing mid 20's and being harvested grain. Lodged corn slowing harvesting. Soybeans need more sun, few days to mature. Soybeans 66% turned, 1974 45%, normal 55%. Late hay still being made; supplies tight. Pastures providing good fall grazing. Tobacco and sweet corn harvest near end. Harvesting late vegetables continues. Fall plowing 10% done, 1974 2%, normal 8%. Soil moisture 10% short, 75% adequate, 15% surplus.

WYOMING: Temperatures slightly cooler than normal except for northwest. Weekly maximum mid-70's and mid-80's. Minimums in teens recorded along western border. Precipitation deficient. Three isolated points recorded above normal.

Topsoil moisture very short east, adequate west, short elsewhere. Spring wheat, oats, barley 85 to 90% harvested. Corn silage 35% cut. Dry beans 80% windrowed, 35% combined. Potatoes 25% dug. Winter wheat planted 75%, emerged 33%. Corn for grain prospects fair, in milk and dough stages with some denting. Sugar beet prospects good. Hay harvest: alfalfa, second cutting 95%, third cutting 35%, other hay finishing up. Condition of cattle, calves, sheep and lambs generally good.

## WORLD AGRICULTURE WEATHER SUMMARY

**HIGHLIGHTS:** Drought eased in Western Europe and Central America, lingered on in parts of the USSR, and intensified in much of Brazil and parts of Argentina. Good rains fell in Africa's Sahel and in major crop areas of Australia. Moisture conditions in the People's Republic of China (PRC) are favorable except in the drier-than-usual Northeast and Northwest and in central areas, where some flooding and crop losses occurred. Summer monsoon rains benefited India, Pakistan, and Bangladesh, but there were some losses from flooding. Wet weather slowed farm activities and early frosts caused minor losses in places in North America but general conditions improved.

**WEATHER:** Rainfall increased and more seasonable temperatures prevailed in most of Western Europe since mid-August. August set heat records in much of the region and was perhaps the hottest August in centuries in the United Kingdom. Though dry weather is needed for harvest much of the region requires more precipitation for stressed crops and for germination of fall seedings.

In Eastern Europe drought eased somewhat in Albania, East Germany, and Poland. In contrast, drier weather would aid Yugoslavia.

Good harvest weather prevailed in most of the USSR, but early frosts damaged some crops. Light rainfall caused further deterioration of crops from the southern Urals through West Kazakhstan, while rains improved conditions in western USSR for permanent and fall-sown crops.

Mostly adequate summer rains continued in Africa's Sahel. Algeria received above normal rainfall.

August and early September rains aided critically dry areas in North America. Rains caused some harvesting problems, but generally improved conditions for fall planting and permanent crops. Drought in Central America--in places the worst in several decades--eased somewhat.

Hurricane Eloise brought needed rainfall to parts of the Caribbean but damaged crops in Puerto Rico, the Dominican Republic, Haiti, and Cuba.

Drought intensified in central Brazil including the States of Sao Paulo, Rio de Janeiro, Minas Gerais, and southern Mato Grosso. Dry weather impeded recovery from the freeze, sparked grass fires, lowered crop prospects, and delayed "spring" planting. Argentina's La Pampa and Buenos Aires Provinces also have been dry for over 2 months although rains during September 18-20 benefited crops. It's been a cold winter for much of South America.

Excessive rains with flooding marred an otherwise excellent performance of the summer monsoon in Pakistan, India, and Bangladesh. Steady monsoon rains enhanced crop prospects, but some crop losses occurred in Bihar, Orissa, and eastern Uttar Pradesh in India and in Sind Province, Pakistan. Heavy rains even washed away the weather station at Patna, Bihar.

Timely rains further improved crop prospects in Australia after a severe drought.

**GRAIN:** Europe's grain production fell below trend and expectations, because of wet conditions last fall that reduced planted area; prolonged hot, dry summer weather; and flooding of the Danube. Timely wet and dry periods would permit harvest of late-maturing grains and seeding of winter grains, but rains are needed where soil moisture is depleted. The last 4 to 5 weeks brought

adequate rainfall to much of Europe including the major winter wheat region of the USSR.

Weather favored harvest in Asiatic USSR but much of the New Lands still suffers from moisture shortages and crop deterioration. Frosts hurt crop prospects even more.

In the Western Hemisphere, wet weather and some frosts delayed harvest and reduced quality of small grains in Canada and, to a lesser extent, in the United States. Mid-September weather improved and harvests advanced. Generous rains aided the U.S. corn crop. Major winter wheat areas in Brazil received adequate rain but drought slowed planting of summer crops in central areas. Argentina's corn belt received good rains for the most part--even too much in spots--but the winter wheat region needs rain after 8 to 10 weeks of dry weather. In Central America rains came too late in some growing areas to save corn and other grains. Replanted crops will depend more than usual on fall precipitation.

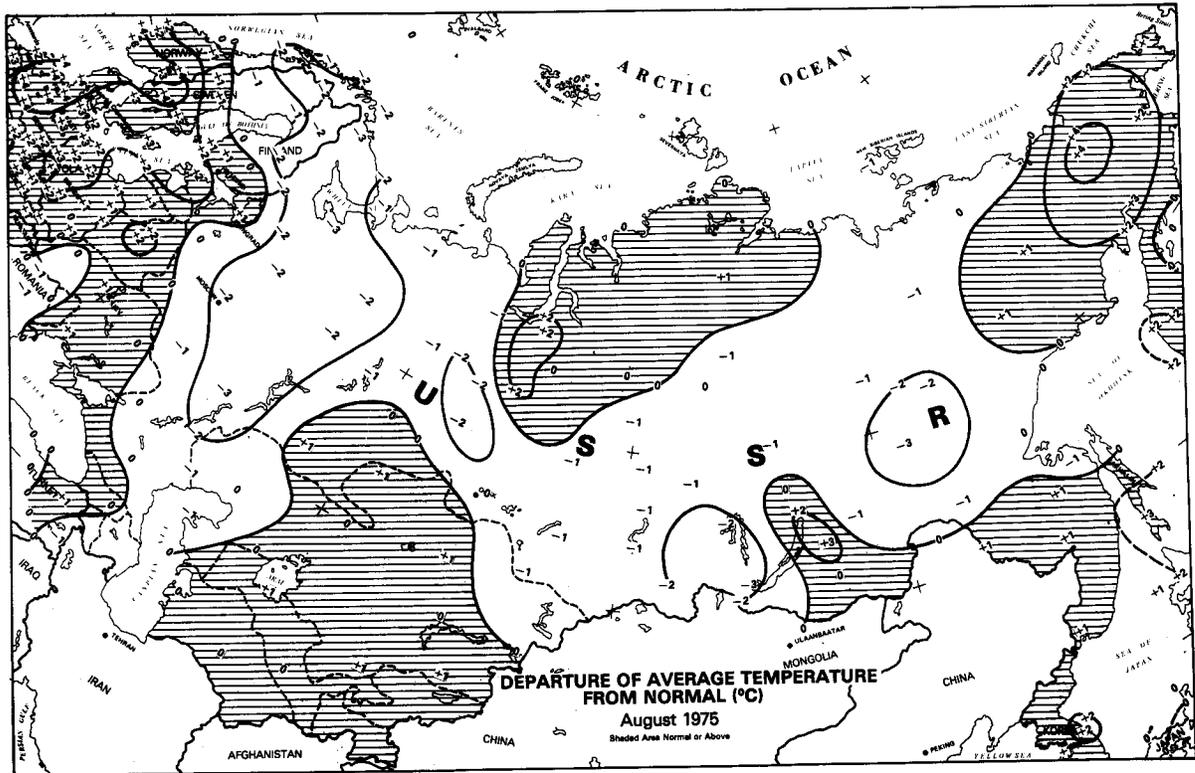
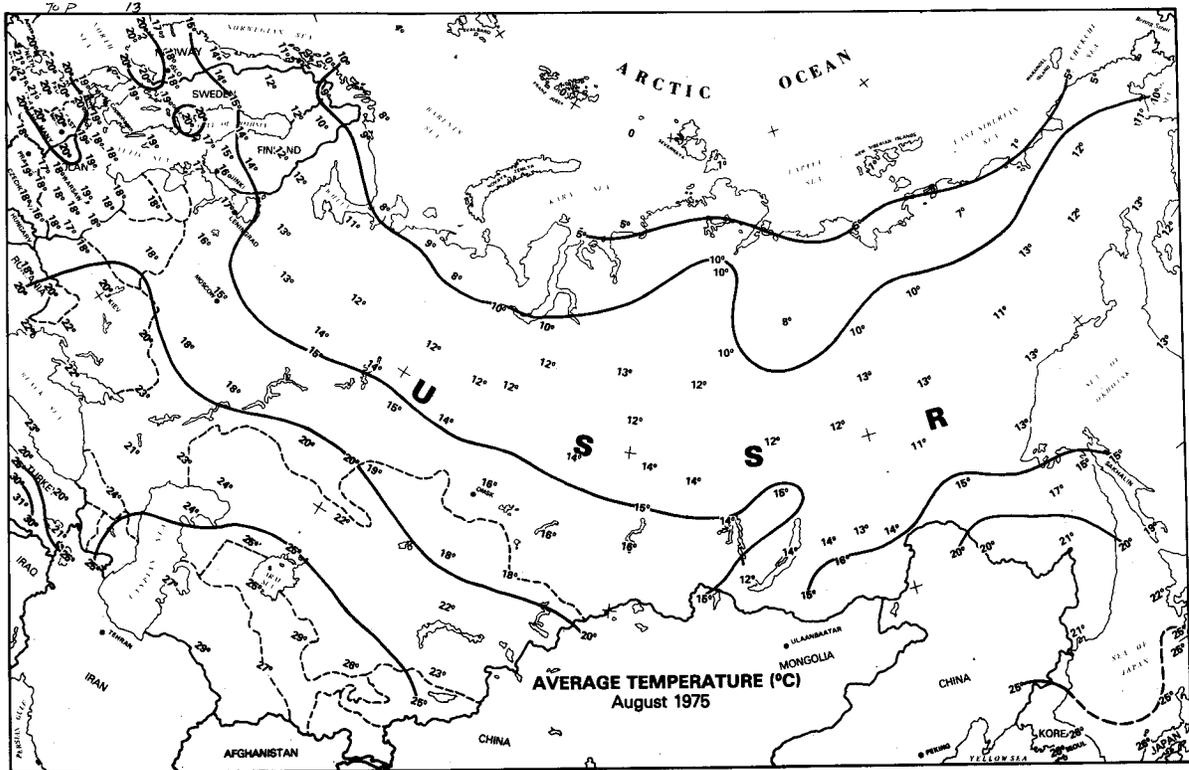
Timely, generous rains boosted winter grain production in Australia, following its precarious beginning. September rains were substantial.

Excellent summer monsoon rains in most of Asia brightened crop prospects, but too much moisture could cause flooding. Flooding in August and September caused problems for parts of Pakistan, India, and the PRC. Costly losses of growing and stored crops occurred, but by far gains still exceeded losses. Replanting to quick maturing crops will be common, especially sorghum to replace rice in India. Above normal soil moisture enhanced winter crop prospects. In India, all areas producing summer-grown cereals received normal or above precipitation June 1 to September 17.

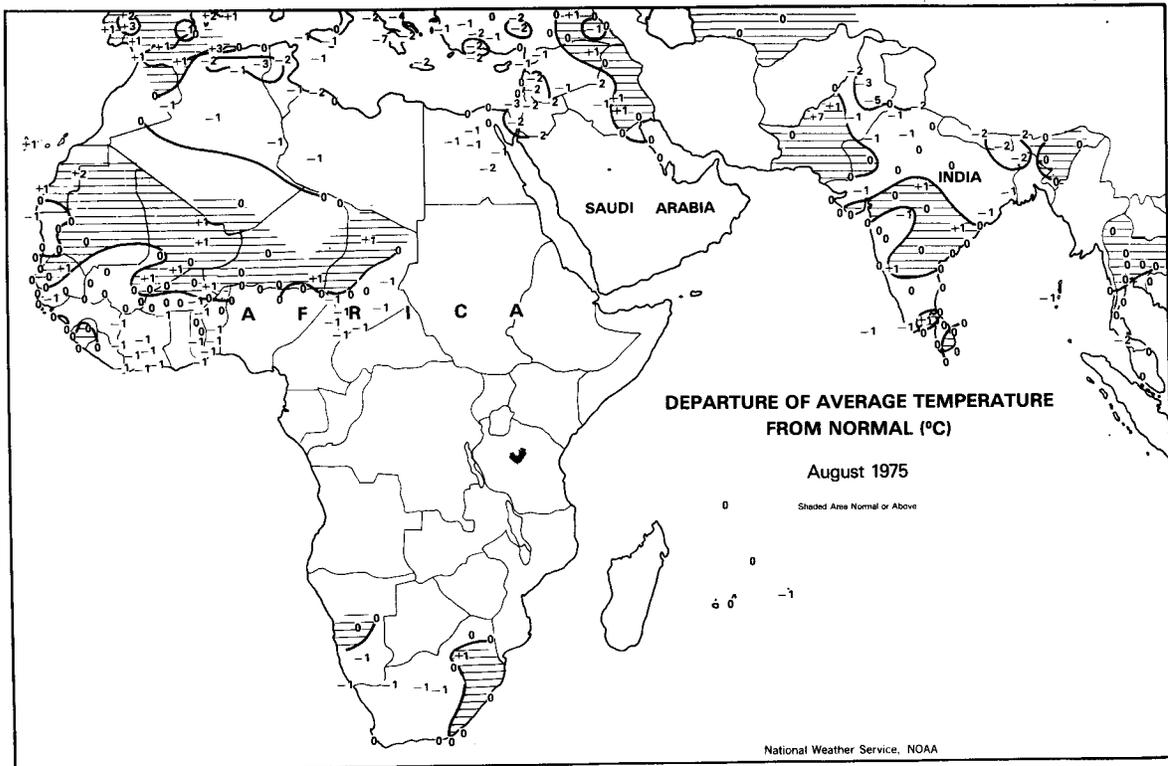
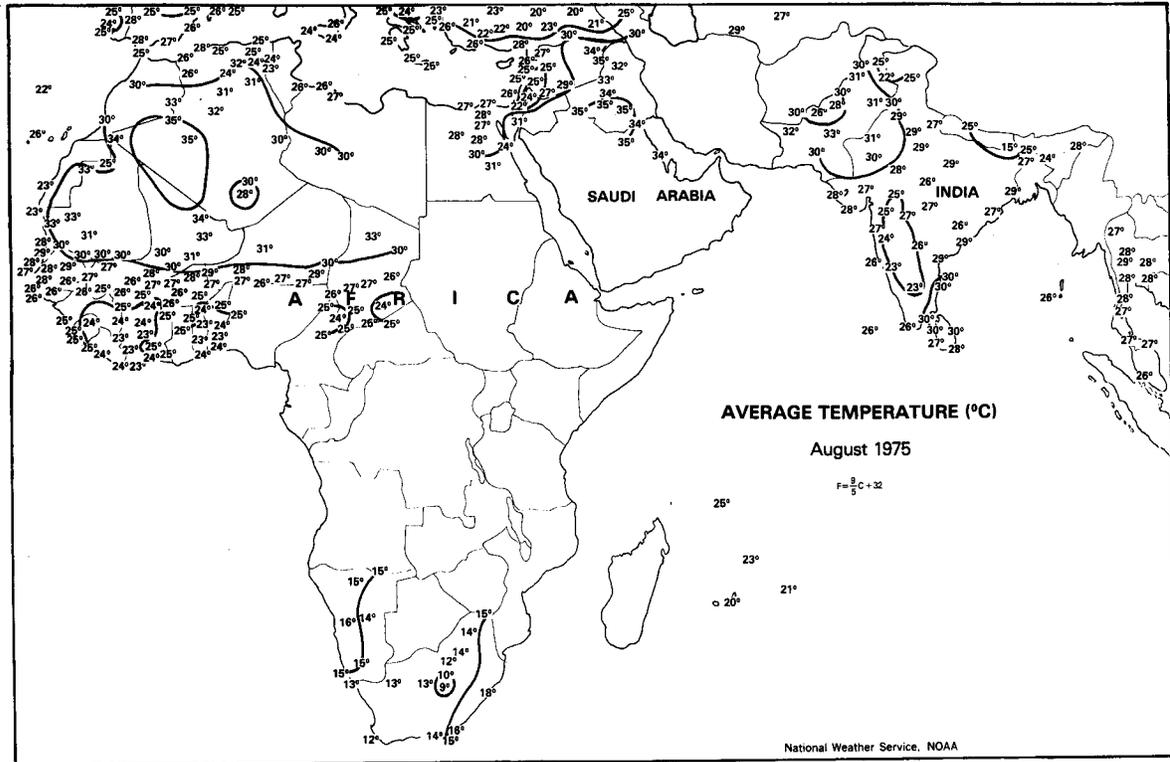
**OILSEEDS:** USSR sunflowers benefited from late summer rain but earlier erratic rainfall and heat reduced production potential. Eastern Europe oilseed crops had mostly favorable weather since the Danube flooded. Late summer weather was also favorable for oilseeds in North America, especially the widespread rains throughout U.S. soybean States. Favorable weather also occurred in Asian areas except Northeast PRC which could have used more and better distributed rainfall. Brazil needs rain before planting can progress. Most of the palm oil producing countries have received adequate rain.

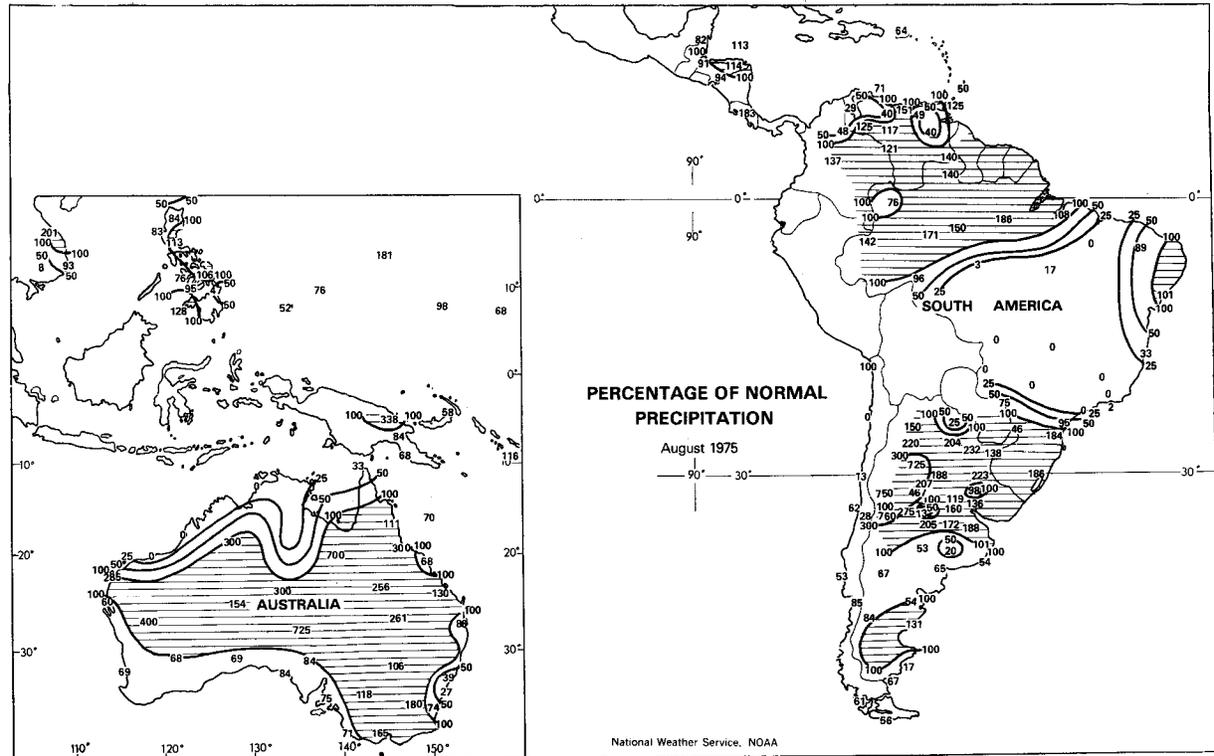
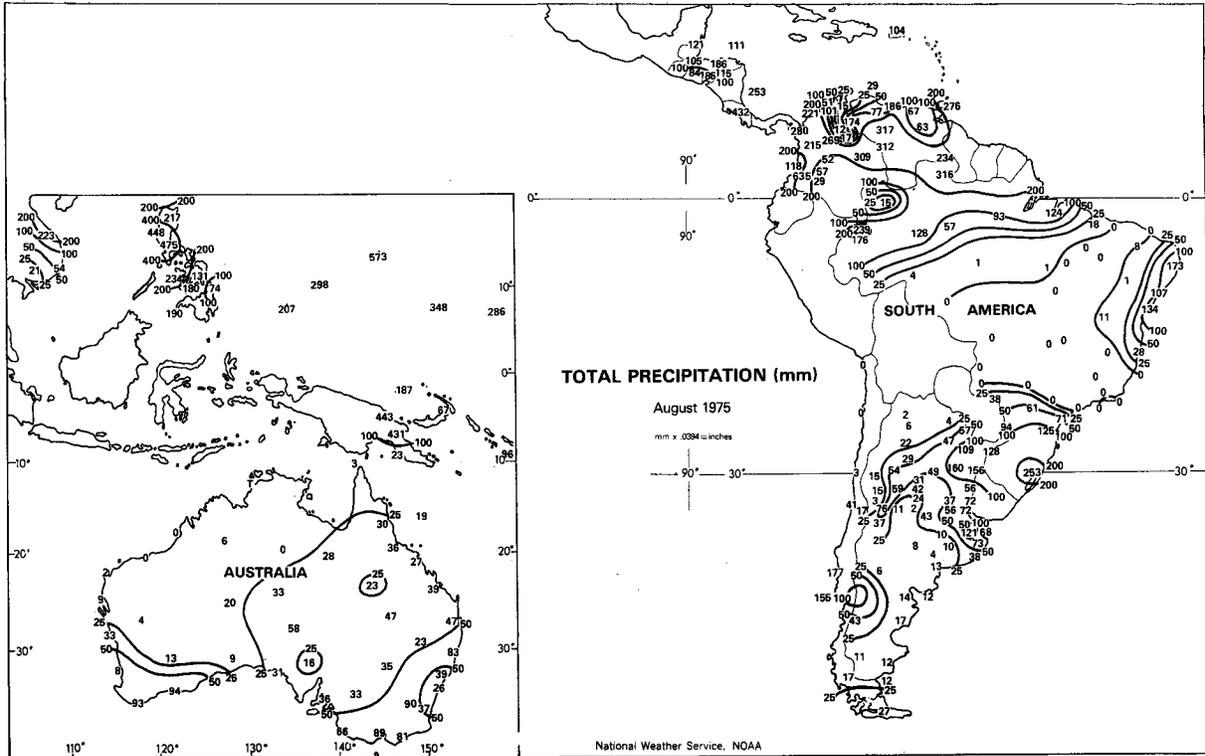
**OTHER CROPS:** Increased irrigation and improved rotation practices led to prospects of a record or near record cotton crop in the USSR, despite reports of water supply problems. Weather was mostly favorable in North America but wet conditions delayed cotton picking in minor producing areas. Heavy August rains slowed cotton seeding in Colombia. Continued sunny weather in some USSR areas favored sugar accumulation of sugarbeets. Sugarbeets tend to be small in Western Europe because of earlier heat and drought, although late summer weather improved considerably. Severe August thunderstorms claimed about 70 percent of Spain's hops crop and damaged apples, corn, alfalfa, and wine grapes. Citrus in Brazil suffered from prolonged drought. August-September rains greatly improved forage crops in Australia, relieved stress on these crops in Western Europe and in major parts of Central and North America. Vast areas of Brazilian crops remain under stress awaiting the start of spring rains.

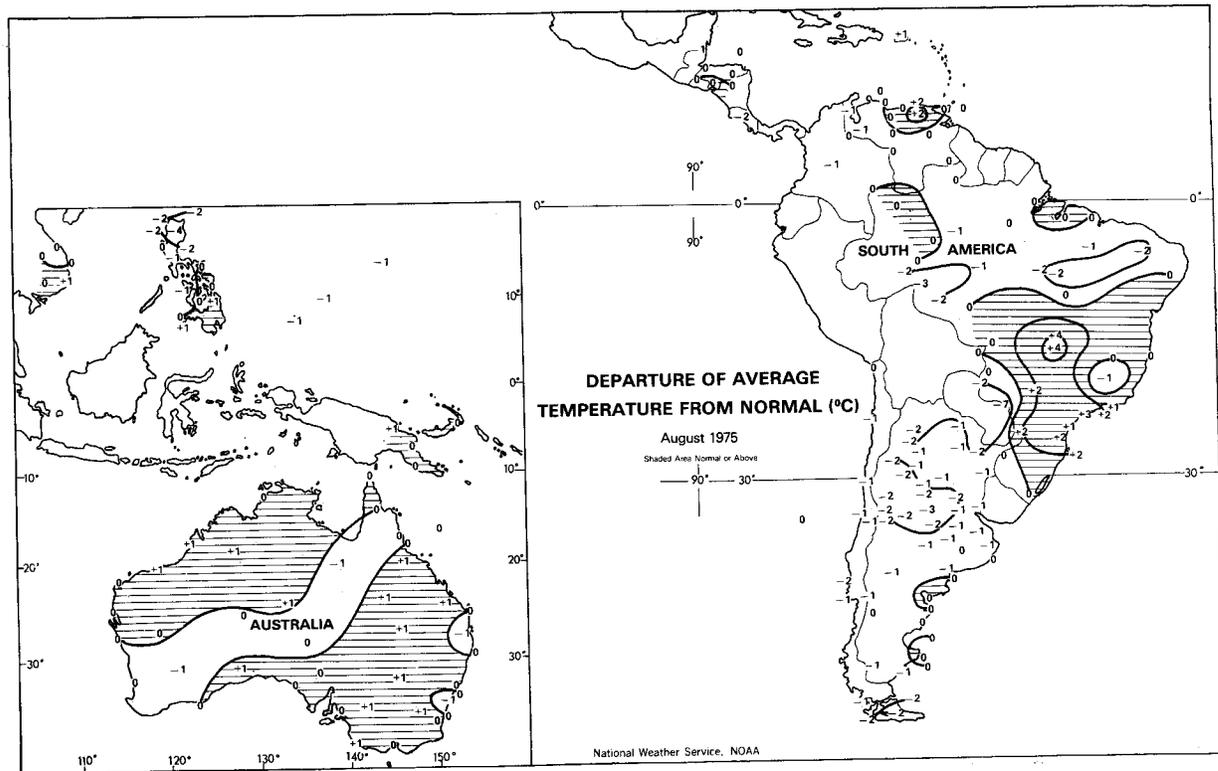
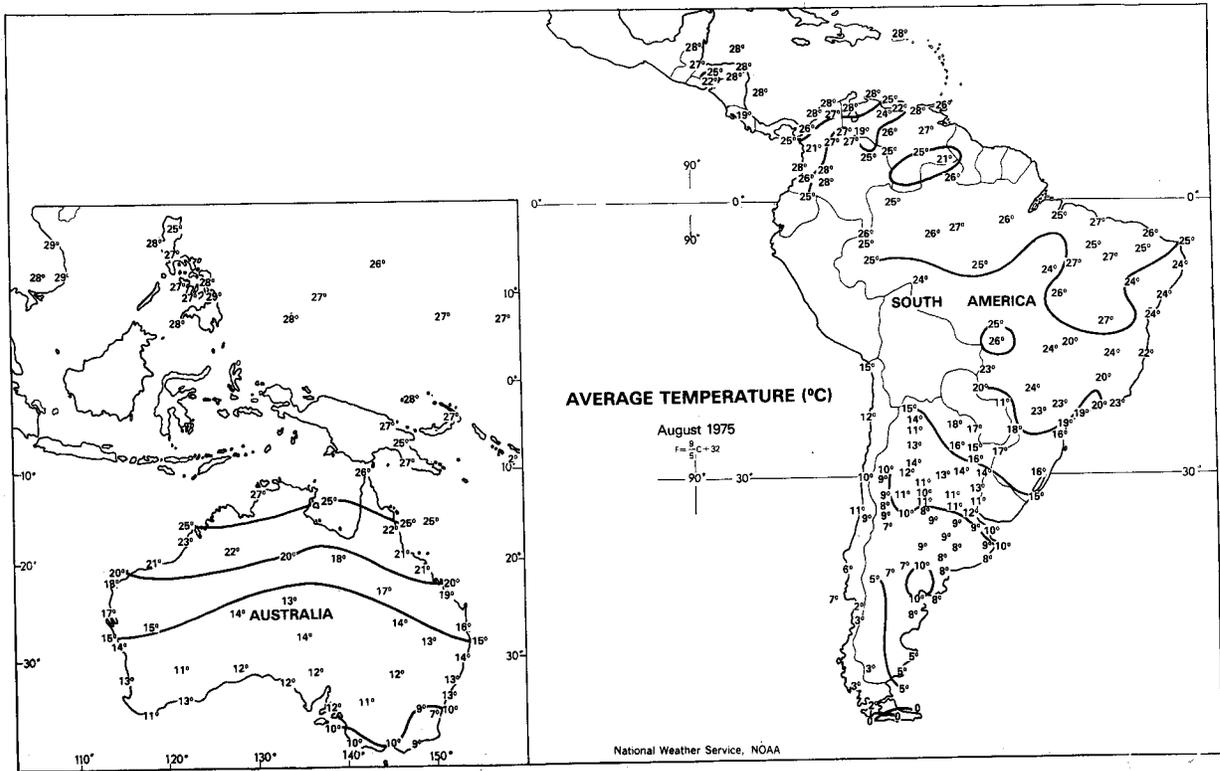


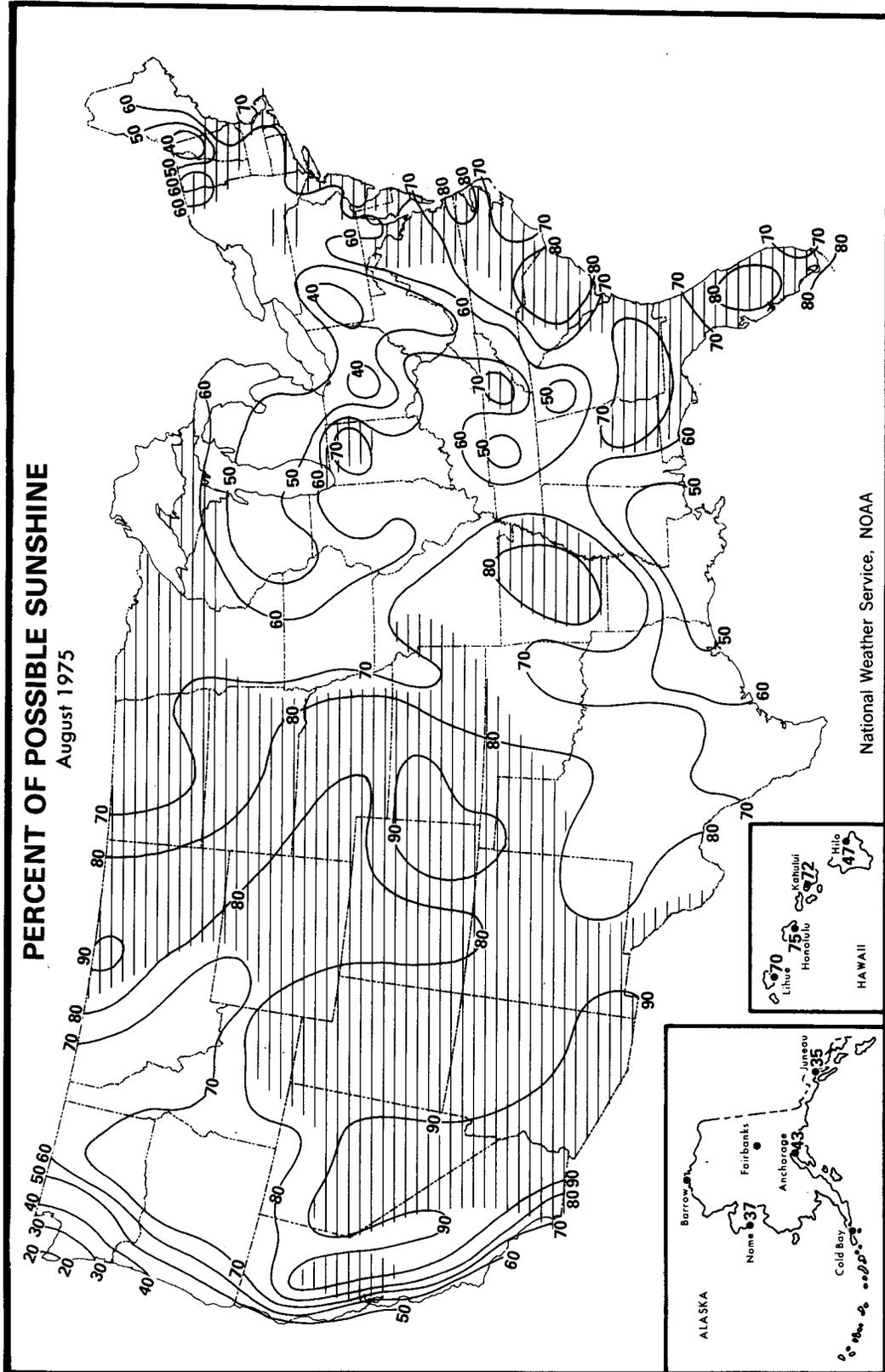


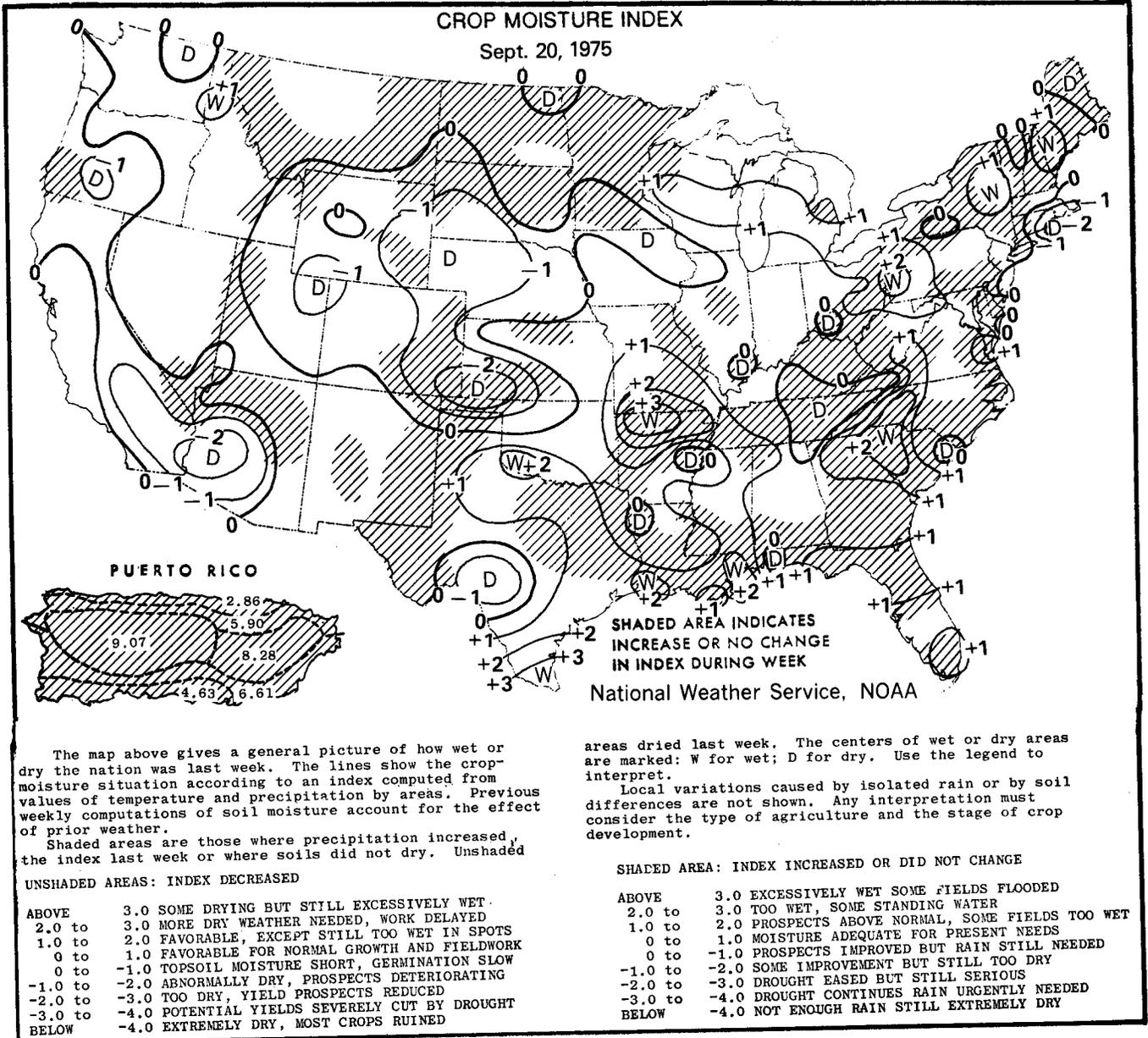












The map above gives a general picture of how wet or dry the nation was last week. The lines show the crop moisture situation according to an index computed from values of temperature and precipitation by areas. Previous weekly computations of soil moisture account for the effect of prior weather.

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

areas dried last week. The centers of wet or dry areas are marked: W for wet; D for dry. Use the legend to interpret.

Local variations caused by isolated rain or by soil differences are not shown. Any interpretation must consider the type of agriculture and the stage of crop development.



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## Winter Wheat Seeding Progress

Percent of acreage seeded  
as of September 21 for  
the 1975 and 1976 crops

	Average	1975	1976
Colo.	73	70	68
Idaho	1/	20	25
Ill.	10	5	5
Ind.	10	5	5
Kans.	20	30	20
Ky.	1/	1/	10
Mont.	45	60	45
Nebr.	60	55	65
Ohio	15	10	10
Okla.	24	31	8
Pa.	1/	1/	30
S. Dak.	80	67	86
Tenn.	16	13	15
Tex.	61	50	22
Va.	5	5	4

1/Data not available.