

WEEKLY WEATHER AND CROP BULLETIN

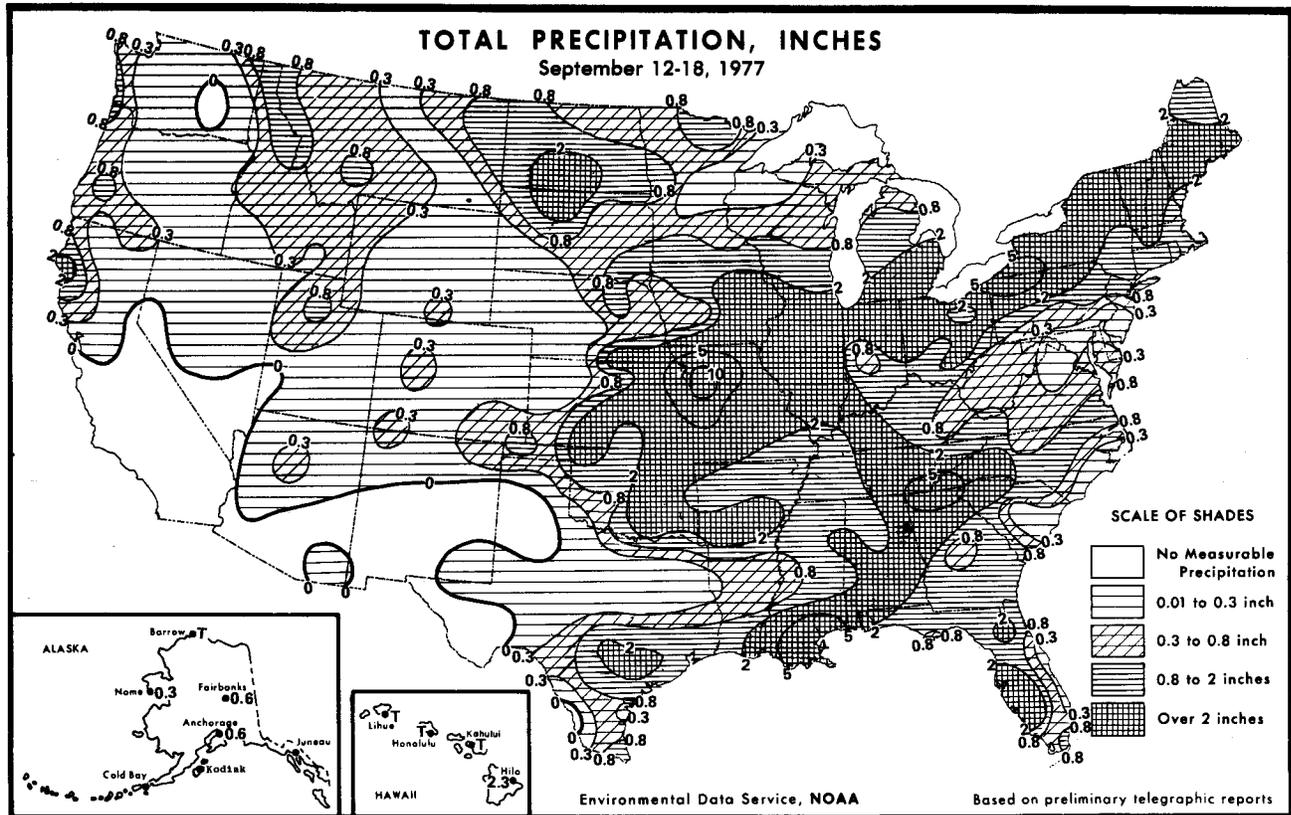
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National Weather Summary Sept. 12 - 18

HIGHLIGHTS: The Kansas City area was inundated by more than 1 foot of rain causing death and massive damage in flooded sections. Other areas of heavy rainfall included more than 5 inches in parts of southern Louisiana, southern Iowa, western New York State, and the lower Appalachians. More than 2 inches drenched portions of the northern Plains and eastern Oklahoma. By week's end, rain moved into the Pacific Northwest and northern California. Temperatures dipped as low as 6° below normal west of the Rockies while much of the eastern half of the Nation was above normal except New England.

The floods came to Kansas City on Monday. By midnight, nearly 12 inches had fallen in the metropolitan area causing massive overflow. Earlier heavy rains had dumped several inches in parts of Nebraska and Kansas before moving through Kansas City. Hail also pummeled the area.

Locally heavy rain fell on northern Missouri, southeastern Iowa, and northwestern Illinois. The same frontal system trailed southward to Texas carrying heavy rain and hail to the San Antonio area and setting off a tornado in Oklahoma.

The rain finally ended in Kansas City on Tuesday; but not before many deaths and destruction from flooding. It was the heaviest single rainfall ever in the area; Independence, just to the east, was inundated by 16 inches.

Further south, towns close to San Antonio were deluged by 7 to 11 in. Hail was reported there as well as Corinth, Miss., and Fort Chaffee, Ark. Violent thunderstorms developed from southeastern Texas through Arkansas, from Mississippi to western Alabama, and in southwestern Louisiana. Tornadoes touched down in Mississippi and Louisiana.

National Agricultural Summary

Sept. 12 - 18

HIGHLIGHTS: Torrents of rain swept across the Corn Belt out to the Northeast flooding low fields and delaying fieldwork in others. Rains saturated parts of the South as well. Wet soils were not a factor in the corn harvest yet; where harvest was begun, progress generally was ahead of recent years. Soybean harvest tended to lag behind 1976's fast pace. Corn and soybean harvests were first beginning in major production areas. Cotton harvest moved briskly reaching 14% compared with 4% in 1976 and the 8% average. Sorghum harvest advanced to 29%, 4 points ahead of 1976 and the average. Winter wheat seeding was off to a good start; 27% of the crop planted, ahead of 1976 but nearly equal the average pace. Soil moisture rated short in parts of the Southeast, Virginia, Mississippi, Louisiana, and most of the West.

SMALL GRAINS: The last of the 1977 small grain harvest dragged on along the U.S./Canadian border. Montana's harvest was 90% complete; the same as North Dakota's spring wheat harvest. Combining in Idaho and Minnesota was almost complete. Damp weather caused sprouting problems in unharvested wheat.

Farmers had adequate soil moisture in all areas except the Northwest to plant the 1978 winter wheat crop. Planting advanced to 27% complete compared with 18% in 1976 and the 26% average. In Kansas rainy weather slowed seedings, but planting equalled the average rate of 15% and exceeded last year's 10%. Oklahoma farmers finished preparing seedbeds and planted 25% of the crop; 5% emerged. Texas wheat planting progressed well, minor replanting was necessary because of locally heavy rains in the northern High Plains. Only a few areas needed moisture for germination.

CORN: Corn harvest for grain gradually expanded throughout the Nation although in many States harvesting was less than 5% complete. Rains slowed operations, but progress exceeded recent years.

In the eastern north central States harvest was less than 5% complete in Ohio and Wisconsin and just 5% in Illinois exceeding 1976's 4% and the 3% average.

In the western north central States harvest ranged from just beginning in Iowa to 19% complete in Missouri. Harvest was just slightly ahead of last year but well ahead of average.

Across the South corn harvest was about half complete surpassing both 1976 and the average. The North Carolina harvest advanced to 49%; it was 61% in Georgia, 41% in Texas, and 14% in Kentucky.

SOYBEANS: Soybeans rated fair to good throughout the Nation. Most of the soybean foliage turned yellow and shedding was well advanced in northern production areas.

Among the north central States harvest was just beginning in Ohio, Iowa, and Kansas. Missouri farmers combined 2% compared with 3% in 1976 and average. Illinois producers harvested 5%, far short of 1976's 18% and the 10% average. Minnesota growers combined 8%, lagging 1976's 18% but surpassing the 5% average.

In the southern States harvest started in Kentucky, Mississippi, Arkansas, and Louisiana. Rains helped the Arkansas crop.

COTTON: Cotton harvest started early and advanced to 14%, exceeding 1976's 4% and the 8% average in the 11 southern States. Last year at this time only Texas producers had harvested any cotton, but this year harvest was underway in all States except North Carolina and Oklahoma. Some limited picking began in Arizona and New Mexico. California cotton matured rapidly; bolls opened at a good rate. Some cotton was defoliated in the San Joaquin Valley.

OTHER CROPS: Grain sorghum harvest in the seven major producing States reached 29%, leading both last year and the average by 4 points. Harvest was far advanced in Texas at 66% and Missouri at 22%; both States were about 10 points ahead of 1976. Kansas harvest at 5% matched normal progress but lagged 1976's 10%. Harvest was just starting in Oklahoma.

Maine's potato harvest bogged down in rain-soaked fields. Idaho producers harvested 5%--the same as last year.

Arkansas rice harvest advanced to 32% compared with 14% in 1976 and 18% average. Winds and heavy rains created adverse combining conditions by lodging grain. Louisiana's harvest at 78% lagged 1976 and the average. Texas producers finished harvesting the first crop; the second crop formed heads. Mississippi's harvest, at 33%, was 25 points ahead of last year.

Georgia peanut harvest continued to lag recent years; only 16% was dug and 11% threshed. The 1976 figures were 43 and 31%; the average is 47 and 34%. Alabama's harvest also lagged at 7% dug compared with 1976's 36% and the average 52%. Texas harvest, at 20%, fell slightly behind recent years.

FRUITS AND NUTS: Apple picking was active throughout the Nation. Grape harvest increased in northern areas, but slackened in California except for wine use. The cranberry harvest got started. Pecans rated fair to good; high winds damaged some of the Texas trees and knocked off some nuts. Texas citrus growers picked oranges; Florida citrus groves rated excellent; new growth was less abundant. Grapefruits reached good size and color break started. California deciduous fruit harvest was almost complete; the desert lemon harvest began.

VEGETABLES: Florida vegetable planting was very active; some growers reset flooded low-lying areas. High temperatures dropped some tomato, eggplant, and pepper blossoms. Light harvests of pole beans, squash, sweet corn, and okra commenced. Texas producers planted crops in southern areas and harvested a wide variety of vegetables in northern sections. California rains temporarily halted the processing tomato harvest. Low temperatures or wet conditions delayed harvests in New England and Michigan.

PASTURES AND LIVESTOCK: Grasslands rated fair to good in some areas and excellent in the eastern half of the Nation; the only exception was poor to fair in some of the Atlantic Coast States. Western ranges at higher elevations rated fair to good, but elsewhere only poor. Producers moved cattle off summer ranges earlier than normal. California cattle were in poor condition for the coming calving season.

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., Sept. 18, 1977

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 . . .	77	+ 3	1.5	+ .6	La. Baton Rouge . . .	78	0	5.0	+4.1	Youngstown . . .	64	+ 1	3.0	+2.4
Mobile . . .	79	+ 1	3.5	+1.8	Lake Charles . . .	78	- 1	1.8	+ .8	OKLA. Okla. City . . .	75	+ 2	.8	- .1
Montgomery . . .	80	+ 4	2.4	+1.3	New Orleans . . .	79	0	5.7	+4.3	Tulsa . . .	74	+ 1	2.2	+1.2
ALASKA. Anchorage . . .	51	+ 2	.6	0	Shreveport . . .	77	- 1	T	- .8	OREG. Astoria . . .	58	- 1	1.0	+ .4
Barrow . . .	37	+ 6	T	- .1	MAINE. Caribou . . .	50	- 4	1.8	+1.0	Burns . . .	56	- 2	.1	0
Fairbanks . . .	46	+ 1	.6	+ .4	Portland . . .	58	- 1	1.6	+ .8	Medford . . .	64	- 1	T	- .1
Juneau . . .	---	---	---	---	MD. Baltimore . . .	71	+ 2	T	- .7	Pendleton . . .	61	- 3	T	- .1
Kodiak . . .	---	---	---	---	MASS. Boston . . .	64	- 1	.9	+ .1	Portland . . .	63	0	.4	0
Nome . . .	46	+ 3	.3	- .3	Chatham . . .	61	---	1.1	---	Salem . . .	61	- 1	.4	+ .1
ARIZ. Flagstaff . . .	57	- 1	.5	+ .1	MICH. Alpena . . .	59	+ 3	.5	- .3	PA. Allentown . . .	66	+ 1	.9	0
Phoenix . . .	85	+ 1	T	- .1	Detroit . . .	65	+ 1	2.3	+1.8	Erie . . .	62	0	5.4	+4.6
Tucson . . .	79	- 2	0	- .3	Flint . . .	64	+ 3	2.0	+1.4	Harrisburg . . .	67	0	.4	- .2
Winslow . . .	67	- 3	.1	- .1	Grand Rapids . . .	62	- 1	1.8	+1.0	Philadelphia . . .	69	+ 1	.2	- .5
Yuma . . .	84	- 4	0	- .1	Houghton Lake . . .	59	+ 2	1.6	+ .8	Pittsburgh . . .	63	- 1	1.3	+ .7
ARK. Fort Smith . . .	74	0	1.5	+ .7	Lansing . . .	62	0	2.3	+1.7	Scranton . . .	61	- 2	1.7	+1.1
Little Rock . . .	76	+ 2	2.5	+1.6	Marquette . . .	58	+ 1	.3	- .5	R.I. Providence . . .	64	0	1.0	+ .2
CALIF. Bakersfield . . .	74	- 3	0	0	Muskegon . . .	61	- 1	1.2	+ .4	S.C. Charleston . . .	78	+ 3	.1	-1.1
Eureka . . .	58	+ 1	1.9	+1.8	S. Ste. Marie . . .	54	- 2	.6	- .3	Columbia . . .	76	+ 1	.2	- .8
Fresno . . .	69	- 5	0	0	MINN. Duluth . . .	55	+ 1	.1	- .6	Greenville . . .	74	+ 2	3.0	+2.1
Los Angeles . . .	68	- 5	0	- .1	Internat'l Falls . . .	56	+ 3	2.0	+1.2	S.D. Aberdeen . . .	62	+ 3	.7	+ .3
Red Bluff . . .	68	- 8	.4	+ .3	Minneapolis . . .	61	+ 1	.4	- .2	Huron . . .	63	+ 2	.3	- .1
San Diego . . .	71	+ 1	0	- .1	Rochester . . .	62	+ 3	.7	- .1	Rapid City . . .	62	+ 2	.2	- .1
San Francisco . . .	63	- 1	T	0	St. Cloud . . .	60	+ 2	.1	- .5	Sioux Falls . . .	62	+ 1	1.1	+ .4
Stockton . . .	68	- 5	T	- .1	MISS. Jackson . . .	78	+ 2	.6	- .1	TENN. Chattanooga . . .	75	+ 3	5.1	+4.2
COLO. Denver . . .	64	+ 1	T	- .3	Meridian . . .	80	+ 5	.9	+ .1	Knoxville . . .	75	+ 3	2.2	+1.5
Grand Junction . . .	66	- 2	.1	- .1	MO. Columbia . . .	69	+ 1	3.0	+1.9	Memphis . . .	80	+ 6	1.8	+1.1
Pueblo . . .	62	- 5	.1	- .1	Kansas City . . .	68	- 1	9.5	+8.5	Nashville . . .	75	+ 3	2.3	+1.3
CONN. Bridgeport . . .	68	+ 1	1.0	+ .3	St. Louis . . .	70	0	2.5	+1.8	TEX. Abilene . . .	80	+ 4	T	- .5
Hartford . . .	64	+ 1	1.9	+1.1	Springfield . . .	71	+ 2	3.6	+2.6	Amarillo . . .	72	+ 2	T	- .4
D.C. Washington . . .	71	0	.1	- .6	MONT. Billings . . .	59	0	.4	0	Austin . . .	80	+ 1	1.6	+ .7
FLA. Apalachicola . . .	81	+ 2	.3	-2.0	Glasgow . . .	56	- 1	.8	+ .6	Beaumont . . .	82	+ 3	1.2	- .1
Daytona Beach . . .	82	+ 2	.3	-1.4	Great Falls . . .	56	- 1	.4	+ .1	Brownsville . . .	83	+ 1	1.1	- .2
Ft. Myers . . .	83	+ 1	2.1	0	Havre . . .	58	+ 1	.1	- .2	Corpus Christi . . .	84	+ 3	.3	- .9
Jacksonville . . .	80	+ 1	1.2	- .7	Helena . . .	56	+ 1	.7	+ .5	Dallas . . .	---	---	---	---
Key West . . .	84	+ 1	.3	-1.5	KallsPELL . . .	54	+ 1	.6	+ .3	Del Rio . . .	84	+ 4	.5	- .3
Lakeland . . .	84	+ 4	2.5	+1.0	Miles City . . .	61	+ 1	T	- .3	El Paso . . .	75	+ 1	0	- .3
Miami . . .	84	+ 2	.8	-1.3	Missoula . . .	56	+ 1	.8	+ .5	Fort Worth . . .	80	+ 2	T	- .8
Orlando . . .	84	+ 4	.6	-1.2	NEBR. Grand Island . . .	65	+ 1	.2	- .4	Galveston . . .	80	0	1.8	+ .4
Tallahassee . . .	79	0	1.7	0	Lincoln . . .	66	0	.8	+ .1	Houston . . .	79	0	1.9	+ .8
Tampa . . .	83	+ 2	2.4	+ .9	Norfolk . . .	65	+ 2	.6	0	Lubbock . . .	76	+ 5	T	- .5
W. Palm Beach . . .	82	0	.2	-2.1	N. Platte . . .	63	+ 1	T	- .5	Midland . . .	79	+ 3	T	- .4
GA. Atlanta . . .	75	+ 2	2.5	+1.7	Omaha . . .	66	+ 2	.3	- .5	San Angelo . . .	82	+ 5	T	- .7
Augusta . . .	77	+ 2	1.2	+ .4	Valentine . . .	64	+ 3	.2	- .2	San Antonio . . .	80	+ 1	1.2	+ .3
Macon . . .	79	+ 3	.6	- .1	NEV. Ely . . .	54	- 3	.3	+ .1	Victoria . . .	82	+ 2	1.8	+ .7
Savannah . . .	79	+ 3	1.1	- .3	Las Vegas . . .	78	- 3	0	- .1	Waco . . .	80	+ 1	.1	- .7
HAWAII. Hilo . . .	78	+ 2	2.3	+ .7	Reno . . .	57	- 3	0	- .1	Wichita Falls . . .	79	+ 2	.1	- .6
Honolulu . . .	82	+ 2	T	- .1	Winnemucca . . .	58	- 1	.1	0	UTAH. Blanding . . .	61	- 3	.2	0
Kahului . . .	81	+ 3	T	- .1	N.H. Concord . . .	59	- 1	1.6	+ .8	Salt Lake City . . .	64	- 1	.8	+ .7
Lihue . . .	82	+ 3	T	- .4	N.J. Atlantic City . . .	68	+ 1	.1	- .6	VT. Burlington . . .	58	- 2	2.3	+1.6
IDAHO. Boise . . .	63	0	.2	+ .1	Trenton . . .	68	0	.3	- .5	VA. Lynchburg . . .	69	+ 1	.7	- .1
Lewiston . . .	63	- 1	.1	- .1	N.MEX. Albuquerque . . .	67	- 3	T	- .2	Norfolk . . .	75	+ 3	1.4	+ .4
Pocatello . . .	59	- 1	.3	+ .2	Roswell . . .	77	+ 6	T	- .4	Richmond . . .	73	+ 3	.6	- .2
ILL. Cairo . . .	75	+ 3	.9	+ .1	N.Y. Albany . . .	60	- 2	1.9	+1.1	Roanoke . . .	69	+ 1	.6	- .2
Chicago . . .	65	- 1	3.5	+2.8	Binghamton . . .	60	0	4.3	+3.6	WASH. Colville . . .	58	- 1	.2	0
Moline . . .	64	- 1	3.4	+2.5	Buffalo . . .	62	0	3.4	+2.6	Omak . . .	59	- 4	T	- .1
Peoria . . .	66	0	4.5	+3.6	New York . . .	68	0	1.1	+ .4	Quillayute . . .	57	0	.8	- .3
Rockford . . .	64	+ 1	2.0	+1.0	Rochester . . .	63	0	2.7	+2.1	Seattle-Tacoma . . .	61	+ 1	.2	- .3
Springfield . . .	69	+ 2	2.5	+1.7	Syracuse . . .	63	0	4.0	+3.4	Spokane . . .	58	- 2	.1	- .1
IND. Evansville . . .	73	+ 4	2.7	+2.0	N.C. Asheville . . .	68	+ 1	3.9	+3.1	Walla Walla . . .	64	- 2	T	- .2
Ft. Wayne . . .	66	+ 1	2.7	+2.1	Charlotte . . .	74	+ 2	2.8	+2.0	Yakima . . .	58	- 4	T	- .1
Indianapolis . . .	71	+ 4	.6	- .1	Greensboro . . .	71	+ 1	.7	- .1	W.Va. Beckley . . .	66	+ 3	.7	- .1
South Bend . . .	65	+ 1	3.7	+3.0	Hatteras . . .	76	+ 2	.1	-1.3	Charleston . . .	71	+ 3	.7	0
IOWA. Burlington . . .	64	- 1	2.8	+1.9	Raleigh . . .	74	+ 3	.9	0	Huntington . . .	69	+ 1	.5	- .2
Des Moines . . .	66	+ 2	.6	- .1	Wilmington . . .	77	+ 2	.1	-1.3	Parkersburg . . .	70	+ 2	.7	0
Dubuque . . .	61	- 1	2.0	+ .9	N.DAK. Bismarck . . .	60	+ 3	2.4	+2.1	WIS. Green Bay . . .	60	+ 1	.5	- .3
Sioux City . . .	65	+ 2	.5	- .2	Fargo . . .	61	+ 3	1.0	+ .6	La Crosse . . .	62	0	.9	+ .1
KANS. Concordia . . .	68	+ 1	.4	- .4	Williston . . .	56	- 1	.9	+ .6	Madison . . .	59	- 1	1.0	+ .2
Dodge City . . .	71	+ 2	.6	+ .2	OHIO. Akron-Canton . . .	64	0	1.5	+ .9	Milwaukee . . .	61	0	1.6	+ .8
Goodland . . .	65	+ 1	.1	- .2	Cincinnati . . .	71	+ 3	1.1	+ .5	WYO. Casper . . .	60	+ 1	T	- .2
Topeka . . .	71	+ 3	2.1	+1.3	Cleveland . . .	64	0	2.2	+1.6	Cheyenne . . .	59	+ 1	.2	0
Wichita . . .	72	+ 1	1.0	+ .1	Columbus . . .	69	+ 3	1.8	+1.2	Lander . . .	57	- 1	T	- .3
KY. Lexington . . .	73	+ 4	1.4	+ .8	Dayton . . .	70	+ 3	2.1	+1.5	Sheridan . . .	58	0	.2	- .2
Louisville . . .	73	+ 4	1.7	+1.0	Toledo . . .	64	0	2.0	+1.4	P.R. San Juan . . .	80	- 1	.5	- .7

Based on 1941-70 normals

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State Summaries of Weather and Agriculture

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

ALABAMA: Abundant rainfall and continued warm weather. Some areas received more rain in first 19 days than September normal.

Fieldwork: 3.2 days suitable. Soil moisture adequate. Cotton fair condition; 52% with open bolls, 15% 1976, 24% average; 12% harvested. Corn 49% harvested, 38% 1976, 25% average; aflatoxin concern in some fields. Soybeans fair condition; 15% mature, 20% 1976, 17% average. Peanuts 7% dug, 36% 1976, 52% average. Pastures fair condition.

ALASKA: Cool and very wet. Temperature little above normal.

Rain and wet field conditions limited harvesting progress throughout railbelt. Some potato digging and vegetable harvesting accomplished between showers. Small grain combining and making 2d crop hay virtually at standstill. Rains lodging standing small grains. Ground moisture adequate to surplus. Local cabbage, carrots, and lettuce available.

ARIZONA: Scattered thundershowers central mountains, southeast. Amounts mostly under 0.33 in.; dry elsewhere. Temperatures 1 to 5° below normal.

Cotton harvest accelerating Yuma. Insect activity, virtually out of control. Growers anticipate early harvest. Sorghum harvest full swing. Corn harvest increasing. Alfalfa hay seasonally slow. Many fields renovated, some new planting. Sugarbeets excellent progress Cochise, harvest expected two weeks. Preparations, planting fall, winter vegetables well advanced. Lettuce central areas good stands. Fall cantaloup harvest active Salt River Valley. Lemon harvest increasing. Range conditions mostly poor deserts, fair to good mountains. Stock water supplies minimal desert areas, adequate higher elevations. Supplemental feeding, water hauling necessary some areas. Livestock mostly fair to good condition.

ARKANSAS: Extremes: 96 and 53°. Most precipitation 4.53 in.; least 0.46 in.

Soil moisture adequate. Fieldwork: 3.4 days suitable. Late planted soybeans benefited tremendously from rains. Harvest 1% complete. Cotton harvest 14% complete; open bolls 64% of acreage, 22% last year. Considerable rice acreage blown down due to rain and wind. Harvest 32% complete, 14% 1976, average 18%. Corn harvest 55% complete, 72% last year. Sorghum harvest 65% complete, 46% last year, average 37%. Some wheat air seeded into cotton and soybean fields. Wheat planting 13% complete, 6% year ago. Oat seeding 1% complete. Hay harvest stopped. Pastures provided adequate feed.

CALIFORNIA: Small amounts precipitation northern third. Temperatures, with exception of south coast, averaged below normal.

Dry beans thrashed, windrowed. Some sugarbeets being dug. Small grain harvest peaked Tulalake basin. Seedbed preparation active. Early milo harvested. Rice fields drained. Cotton matured rapidly, good boll openings. Defoliation began San Joaquin. Field corn silage cut. Fruit harvesting near completion. Laying raisin grapes completed, table grape harvest slow, wine grape increased. Prune, nectarine and pear harvest about completed. Almond harvest underway and walnut harvest begun. Desert lemon harvest just beginning. Artichokes, brussels sprouts, broccoli,

and cauliflower harvests continue. Cantaloups and melons slow. Carrots, celery and lettuce continue strong. Sweet corn slowing. Potatoes increasing. Processing tomatoes full swing. Rains temporarily stopped harvest; damage or losses unknown. Range no improvement. Rains north beneficial, early to assess. Cooler weather helped irrigated pasture. Overgrazed pastures some wind erosion. Cattle gathered mountain ranges for lower elevation. Cattle poor condition upcoming calving season. Sheep moving into alfalfa.

COLORADO: Scattered showers southeast 12th. Mostly dry rest of week, with some scattered showers on western slope. Weak cold front 17th with cooler temperatures. Average temperatures near seasonal norms.

Winter wheat seeding 80% 1977, 64% 1976, 57% average. Corn very good; 81% in or past dough stage. Dry beans fair; 69% cut, 49% threshed. Alfalfa 81% 3d cutting, 24% 4th cutting. Sorghum 80% turned, 18% ripe. Summer potato harvest 85% complete. Fall potato harvest underway in San Luis Valley. Corn silage 67% cut. Livestock in good to very good condition.

FLORIDA: Thundershowers numerous Panhandle, north. Shower activity south, central sections by weekend. Temperatures near normal to slightly above. Rainfall ranged from none to a maximum of nearly 3.50 in. upper western Peninsula.

Soil moisture mostly adequate south, central, short in north, adequate to excessive west. Corn harvest about complete, peanut harvest active, slight delay due to showers. Soybean harvest just beginning; crop condition poor to fair. Cotton condition fair. Sugarcane good to excellent condition. Cutting seed cane continues. Grazing conditions fair to excellent. Overgrazing problem some areas. Cattle condition mostly good. Citrus grove condition excellent. Rainfall light, moisture adequate most areas. New growth slowing. Grapefruit sizes very good. Color break starting on grapefruit, K-early hybrids, and Robinson tangerines. Vegetable planting for fall harvest very active. Moderate to heavy spot resetting some crops low lying areas. Hot weather causing heavy droppage bloom buds, open blossoms tomatoes, eggplant, peppers. Light harvest underway pole beans, squash, sweet corn, okra. Preventive spray programs continue active.

GEORGIA: Temperatures 1° above normal. Cool nights north and central 11th thru 13th. Scattered showers end of week. Amounts 1.00 to 2.00 in. extreme north, 0.25 to 0.50 in. central and south. Showers weekend.

Soil moisture mostly adequate to short. Fieldwork: 5 days suitable. Insect damage continues, but at reduced level. Corn rated poor; 61% harvested, 45% last year, 22% average. Cotton poor to fair; 58% open, 11% harvested, last year 28% open, none harvested, average 2% harvested. Soybeans mostly fair. Peanuts mostly fair; 16% dug, 11% threshed, last year 43% dug, 31% threshed, average 47% dug, 34% threshed. Pastures poor to mostly fair. Cattle mostly fair to good. Hogs fair to good. Apples fair to good; 63% harvested, 77% last year. Pecans mostly fair. Wheat 6% seeded, rye 9%, other small grains 7%; last year wheat 4%, rye 4%, other small grains 6%.

HAWAII: Warm and humid. Volcano eruption Kilauea rift zone 13th. No immediate danger to agriculture.

Haze in Kona area may affect progress of tomato field plantings. Rainfall generally light all Islands. Heavy irrigation and spraying most growing areas. Vegetable supplies getting light. Banana supplies moderate to heavy. Papaya supplies moderate. Pineapple harvest down. Sugar harvesting steady. Pastures fair to good.

IDAHO: Temperatures near normal. First rainfall of month in south. Amounts light. Rainfall below normal.

Small grain harvest virtually complete. Third cutting alfalfa and fall seeding active. Combining of spring wheat and barley both 95% complete, 85%, 80% respectively in 1976. Potatoes harvest 5%, 5% 1976. Dry bean harvest good headway 40% complete this year 15% last year.

ILLINOIS: Temperatures normal extreme north to 5° above normal elsewhere. Precipitation 1.00 to 4.00 in.; least extreme south. Thunderstorms and some flooding.

Corn good; 5% harvested, 4% 1976, 3% average. Soybeans good; 85% turning yellow, 90% 1976, 75% average; 65% shedding leaves, 68% 1976, 51% average; 5% combined, 18% 1976, 10% average. 1978 winter wheat 2% seeded, 5% last year, 4% average. Pastures mostly good. Soil moisture mostly adequate to surplus. Fieldwork: 2.3 days suitable.

INDIANA: Wet, warm. Rainfall, north 4.00 in., west central and southwest 2.00 in., east central and southeast 1.50 in. Temperatures 4° above normal ranging from 46 to 88°. Humidities high.

Fieldwork: 3 days suitable. Topsoil moisture adequate to surplus, subsoil moisture adequate. Pastures unchanged; fair to mostly good. Corn 75% mature, 1976 50%, average 45%; fair to mostly good. Soybeans 90% turning yellow or beyond, 1976 90%; 50% shedding leaves, 1976 60%; fair to mostly good condition. Wheat land 40% plowed, 1976 60%, average 70%. Apples 55% picked, 1976 55%, average 40%. Silos 60% filled, 1976 50%.

IOWA: Seasonal temperatures and occasional showers with heaviest showers at weekend primarily over east central and southeast. Flooding some areas.

Soil moisture adequate. Fieldwork: 5 days suitable. Corn borer, ear and stalk dropping, and mold continuing problems. Corn generally good to fair. Corn progress 20% dent, 80% mature, compared 86% mature a year ago. 50% of silage harvested. Soybeans good to fair; 26% leaves turning, 29% leaves shedding, 45% mature. Corn and soybean harvest beginning. Hay and pastures continue to improve. 3d cutting alfalfa 83% complete. Livestock good with improved pasture and cooler temperatures.

KANSAS: Excessive rains and local severe flooding over northeast first of week with storm totals 5.00 to 10.00 in. Amounts over 2.00 in. southeast but less than 0.10 in. northwest and west central. Temperatures averaged 66° northwest to 71° elsewhere, 1 to 2° above normal.

Wet slows wheat seedings; 15% planted, same as average, 10% last year. Corn dented 90%, 85% last year and average. Corn mature 65%, 55% last year and average. Corn harvested 15%, same as last year, 10% average. Sorghum turning color 75%, 70% last year, 65% average. Sorghum mature 30%, same as last year, 25% average. Sorghum harvested 5%, 10% last year, 5% average. Soybean harvest only few scattered fields. Alfalfa fourth cutting 45% complete, 50% last year, 30% average. Alfalfa seeding 75% complete, 55% last year, 75% average.

KENTUCKY: Temperatures few degrees above normal. Precipitation from around 1.00 in. northeast to 1.60 in. central.

Rains held back operations, little progress from midweek. Soil moisture mostly adequate to surplus. Fall plowing held back by rain and harvest work. Fieldwork: 3.4 days suitable. Activities: shelling corn, tobacco cutting, haying, silo filling and fall seedings. Corn 14% harvested, record for this early in season. Soybean combining just beginning with 2% harvested and 8% ready. About 42% still green and 48% turning yellow or shedding leaves. Tobacco ripening fast and harvest advancing despite weather. About 80% burley and 83% dark types already cut, still slightly behind last year but ahead of normal. Curing problems created by rains and high humidity, about 50% crops showing moderate to light houseburn with some locally heavy damage. Only 7% fall seeded grains in ground. Armyworms destroying some fall alfalfa and cover crops. Pastures making excellent growth.

LOUISIANA: Temperatures near normal. Extremes: 57 and 95°. Rain covering central and southern areas.

Soil moisture short to adequate north, mostly surplus elsewhere. Main activities: Insect control cotton, soybeans and seeding winter pastures. Cotton fair to good; 54% open, 26% last year; 4% harvested. Rice fair; 78% harvested, 84% last year, 80% average. Soybeans fair to good; 34% turning color; harvest underway. Sugarcane good; 4% planted. Corn 63% harvested, 65% last year. Sorghum fair; 67% ripe; 42% harvested, 44% last year. Sweetpotatoes mostly fair; 39% harvested, 41% last year. Hay fair. Pastures and livestock fair to good.

MARYLAND & DELAWARE: Temperatures 2° below normal. Highs, upper 70's; lows, mid-50's. Precipitation light all areas except central Eastern Shore Maryland and lower Delaware where substantial amounts of rain fell.

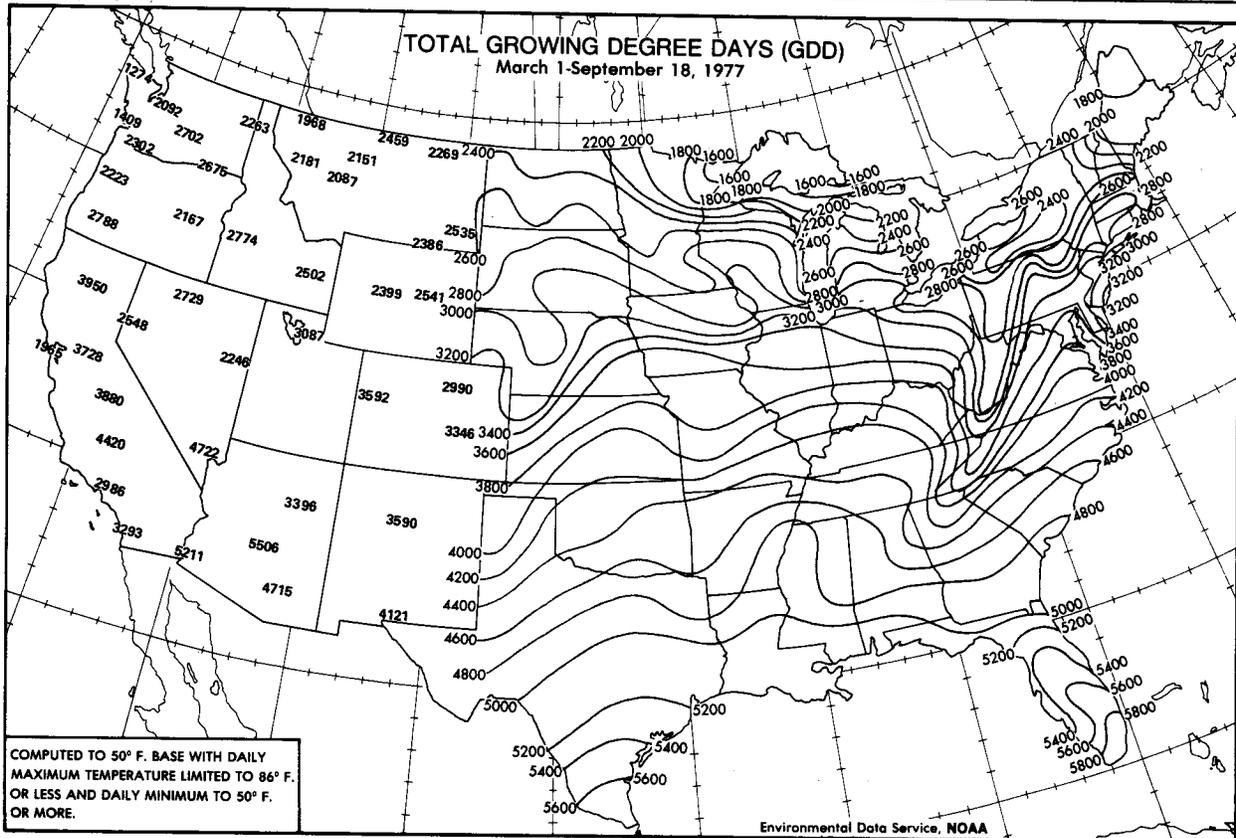
Soil moisture short. Pastures supplying below average to average amounts of feed. Corn 80% mature, 80% 1976, 68% average. Corn for grain 20% harvested, 17% 1976, 12% average. Soybeans 35% yellowed, 40% 1976, 24% average; 15% shed leaves. Tobacco 90% cut. Curing weather continues good. Fall apple harvest in full swing.

MICHIGAN: Temperatures 1° below normal middle Lower; 1° above normal elsewhere. Extremes: 81 and 35°. Precipitation 0.61 in. Upper; northern Lower 0.89 in.; southern Lower 2.16 in.

Topsoil moisture adequate to surplus; subsoil still improving. Fieldwork: 3.5 days suitable. Warm, dry weather needed for harvest. Agricultural activities slow, included some seeding winter wheat, chopping silage, picking apples and plums. Corn 32% mature, 23% 1976, 24% normal. Silage 30% cut. Dry bean harvest 15%, 51% 1976, 39% normal. Soybeans 50% leaves turning; shedding 35%; 7% mature. Third cut hay still 50%; too wet. Pasture feed supplies looking well. Fruit and vegetable harvest slowed by wet weather. Quality deteriorating on some vegetables, especially tomatoes.

MINNESOTA: Temperatures near normal except 5 to 8° above normal northwest and west central. Extremes: 85 and 36°. Precipitation totals less than 0.50 in. except 0.50 to 1.00 in. southeast, west central and southwest and patchy areas over 1.00 in. extreme north central.

Corn, soybean harvest gaining momentum. European corn borer along with wind causing significant stalk breakage and ear droppage in many fields across south. Wet weather continues delay small



grain and flax harvest several northern localities. Corn 93% mature, 1976 82%, normal 54%; corn for grain combined 6%, 1976 5%, normal 1%; silage 75% cut, 1976 82%, normal 50%. Soybeans 97% shedding leaves, 1976 98%, normal 69%; mature 52%, 1976 71%, normal 35%; combined 8%, 1976 18%, normal 5%. Combined: Spring wheat 97%; normal 93%; flax 74%, 1976 86%, normal 71%; sunflowers 17%, 1976 29%, normal 7%. Seeded: Winter wheat 62%, 1976 43%, normal 73%; rye 53%, 1976 34%, normal 68%. Potatoes 40% harvested, 1976 38%, normal 29%. Sugarbeet dug 2%, 1976 2%, normal 2%.

MISSISSIPPI: Temperatures near normal. Extremes: 95 and 52°.

Soil moisture mostly short to adequate northwest, increasing to southeast where surplus to excessive. Fieldwork: 2.7 days suitable. Soybeans 50% shedding, 23% 1976; 19% mature, 5% 1976; 3% harvested. Cotton 91% open bolls, 46% 1976, 28% average; 11% harvested. Rice 90% ripe, 45% 1976; 33% harvested, 8% 1976, 10% average. Corn 35% harvested, 19% 1976, 16% average. Sorghums 91% ripe, 74% 1976; 33% harvested, 39% 1976, 37% average. Sorghum silage 81% harvested, 83% 1976. Winter wheat 10% planted, 13% 1976. Oats 7% planted, 9% 1976. Hay crops 81% harvested, 84% 1976, 79% average. Peanuts 45% harvested, 41% 1976, 34% average. Sweetpotatoes 33% harvested, 24% 1976, 36% average. Soybeans, cotton, and pastures in fair to good condition. Rice in good condition. Corn in fair condition. Pecans in fair to poor condition.

MISSOURI: Temperatures 2° above normal Bootheel; 2° below normal elsewhere. Rain general averaging 2.00 to 5.00 in. with heaviest amounts in northern half. Kansas City area had record rainfall up to 16.00 in.

Fieldwork: 1.1 days suitable. Some crop damage from flooding in low fields. Corn 75% mature, last year 57%, normal 57%. Corn harvested 19%, last year 18%, normal 10%. Soybean condition fair to good; 15% mature, last year 38%, normal 17%; soybeans harvested 2%, last year and normal 3%. Grain sorghum 67% mature, last year 64%, normal 48%; harvested 22%, last year 12%, normal 18%. Cotton with open bolls 75%, last year 12%, normal 30%. Cotton harvested 10%. Wheat seeding 5% completed. Pastures mostly good condition.

MONTANA: Warm first turning much cooler by mid-week. Snow in mountain by week's end. Precipitation above normal except southeast.

Rainy weather slowed harvest wrapup. Topsoil moisture improved; shortages especially northwest and south central. Subsoil moisture mostly short. Spring wheat, barley and oats all 90% harvested, normal 85%. Dry beans 25%, normal 40%. Corn silage 50%, normal 40%. Second cutting alfalfa 85%, normal 80%. Potato harvest 10% completed. Sugarbeet harvest expected to start September 27. Winter wheat seeding 50% complete, normal 35%. 40% livestock moved from summer ranges, normal 20%. Range feed supplies generally short except adequate southwest.

NEBRASKA: Temperatures slightly above normal. Precipitation ranged from 0.25 in. Panhandle to 2.25 in. southeast.

Corn 70% mature, 50% year ago, 60% normal. Sorghum 60% ripe, 70% year ago, 40% normal. Soybeans 75% leaves turning, 90% year ago, 85% normal. Soybean leaves shedding 30% acreage, 70% year ago, 50% normal. Winter wheat 40% seeded, 50% year ago, 50% normal. Soil moisture adequate.

NEVADA: Weather changed abruptly; warm early, cold remainder. Temperatures averaged near normal but ranged dramatically from 107 to 24°. Local heavy thunderstorms south and central. Some snow fell in higher mountains.

Third cuttings alfalfa hay continued west and central. Sixth cutting well along extreme south. Limited movement livestock.

NEW ENGLAND: Temperatures generally 5 to 10° below seasonal levels. Rainy weather prevailed with accumulation of 1.00 to 2.00 in.

Maine potato harvest begun but slowed by wet weather. Vegetable growth slowed due to cool weather. Apple harvest in full swing most areas. Cranberry harvest started on thin-vined, light crop areas. Silage corn harvest started. Crop looks good most areas. Second hay crop 70 to 95% harvested.

NEW JERSEY: Temperatures about normal. Rainfall averaged 1.36 in. north, 0.50 in. central and 0.33 in. south.

Soil moisture, in percent of field capacity 73% north, 60% central and 56% south. Soil temperature averaged 68° north and 71° south. Rainfall extremely variable. Some areas especially south continue extremely dry. Irrigating continues on most vegetable crops. Seasonally cooler temperatures favorable for growth and harvest of fall crops. Harvest of fall snap beans and lettuce expected to increase. Irish potato harvest active and about 67% complete. Sweetpotato harvest increasing slowly, fall apple harvest active. Cranberry harvest expected next week. Late planted field corn and soybeans continue making good growth. Seeding of fall cover crop and grains increasing.

NEW MEXICO: General showers early week and a few light mountain showers late week. Rainfall mostly light but a few more 0.50 in northern mountains.

Most crops good. Dryland sorghum fair. Cotton opening with limited picking started. Fourth cutting alfalfa starting north, fifth in south. Grain sorghum all in dough stage. Winter wheat 50% planted, emerging. Corn and apples being harvested. Range and livestock good with calves moving to market.

NEW YORK: Near normal temperatures, 60's in west and south, 50's elsewhere. Extremes: 26 and 83°. Precipitation ranged from 1.50 in. in lower Hudson Valley and Long Island to 4.25 in. south.

Wet weather delayed harvests. Corn silage harvest 10% complete. Grain corn not yet ready. Third cutting alfalfa 55% complete. Onion harvest well along, good quality. Tomato, cabbage, snap bean, potato harvests going full tilt. Apple harvest proceeding in all areas. Quality is good. Grape harvest gaining momentum as more varieties reach maturity.

NORTH CAROLINA: Precipitation light east, heavier west. Temperatures cooler early, warmer later in week.

Fieldwork: 4.5 days suitable. Soil moisture adequate. Conditions: Corn poor to fair; soybeans, cotton, sorghum grain and pastures fair; peanuts, sweetpotatoes and apples fair to good. Harvested: Burley 58%, 1976 65%; sweetpotatoes 20%, 1976 12%, corn for grain 49%, 1976 46%, average 33%; corn for silage 85%, 1976 75%; apples 42%, 1976 44%, average 39%; peanuts dug 10%, 1976 4%.

NORTH DAKOTA: Temperatures above normal. Extremes: 86 and 30°. Precipitation well below normal.

Small grain harvest made good progress and is winding up; sprouting still evident. Hard red spring wheat about 90% combined, durum about 85%; barley and oats virtually complete. Soybean and sunflower harvest in progress.

OHIO: Precipitation above normal, frequent rains. Temperatures slightly below normal.

Excessive moisture hampered fall harvest. Fieldwork: less than 4 days suitable. Soil moisture adequate to surplus. Adequate for fall seeded crop germination. Crops good condition. Corn and soybean harvest just underway; corn less than 5%, soybeans less than 1%. Corn 60% mature, 70% 1976, 55% normal. Soybeans 15% mature, 25% 1976, 20% average. Winter wheat planted less than 10%, same as last year and normal. Harvest completion: Corn silage 50%, 45% 1976, 40% average. Alfalfa 85%, 85% 1976, 75% average. Tobacco of good quality 75% cut, 80% 1976, 65% normal. Red clover 75%, equal to last year. Tomatoes 75%, on schedule. Pasture condition good; excellent in many local areas.

OKLAHOMA: Temperatures 3° below normal west to 3° above normal southwest; near normal elsewhere. Precipitation from 0.08 in. west central to 2.66 in. southeast.

Topsoil moisture adequate. Temperatures varied with row crops making excellent progress toward maturity. Winter wheat seedbed preparation nearing completion. Planting conditions improved; 25% planted: 8% 1976; 5% up-to-stand, ahead of 1976. Oat and barley seedbed preparations 90% complete; 5% seeded. Corn good condition in Panhandle. All acreages nearing maturity; 33% harvested, 17% 1976. Sorghums good to excellent; 50% hard dough or mature stage; same as 1976. Harvest progressing slowly. Cotton crop good condition; late frost needed for maturity, bolls opening faster than expected; 10% open bolls. Peanuts fair to good; spiking completed; 16% mature, same as 1976. Irrigated acreages not getting water soon enough. Soybeans excellent to good; setting pods completed; 33% mature. Alfalfa hay 4th cutting 70% complete. Pecans fair to good. Pasture and ranges good to excellent; regrowth of native grasses making prospects for fall grazing good. Livestock good to excellent.

OREGON: Precipitation averaged 0.15 in. along coast, 0.05 in., Willamette Valley, 0.50 in. south central area, 0.05 in. or less elsewhere. Temperatures averaged near normal. Extremes: 93 and 43° west; 88 and 29° east.

Small grain harvest, haying continuing. Field corn harvested for ensilage. Mint harvest continuing. Summer fallowing, fall seed continuing with limited progress. Apple, pear, peach, prune harvest continuing. Filberts dropping. All vegetables being harvested. Potato harvest continuing northeast, beginning in Klamath County. Range forage poor to fair condition east, stock water continues to be scarce in some vicinities. Western ranges look fair to good. Cattle moving off forest lands.

PENNSYLVANIA: Almost daily showers produced 0.50 in. or less rainfall in the extreme southeast to over 4.00 in. in the northwest with nearly 5.50 in. at Erie. Temperatures from 40 to 50's midweek; 70 to 80's weekend. Extremes: 34 and 86°.

Fieldwork: 4 days suitable. Moisture mostly adequate to short. Activities: Making hay, filling silos, fall planting, planting barley and wheat, cutting tobacco, digging potatoes, harvesting apples, tomatoes and grapes. Tobacco 88% cut,

last year 80%. Potatoes 62% dug, last year 50%. Ensilage corn harvest 30%, last year 23%. Grain corn 55% dented, 22% mature, last year 11% mature. Fall plowing 67%, last year 58%. Wheat planted 14%, barley 15%, last year both 38%. Aflafla third cut 78%, fourth cut 23%. Hay quality mostly good to fair.

PUERTO RICO: Island rainfall 1.46 in. or 0.31 in. below normal. Temperatures about 80° on coasts and 75° interior. Extremes: 92 and 58°.

SOUTH CAROLINA: Temperatures warmer than normal. Rainfall above normal. Scattered thundershowers first half of week followed by general rains in northern half last half of week. Heaviest amount 1.68 in.

Soil moisture near adequate. Tobacco harvesting complete. Cotton harvesting started. Chemicals bringing worms under control. Corn still being harvested. Mills reluctant to buy crop because of possible aflatoxin. Soybean condition fair. Chemicals controlling worms. Pastures poor to fair. Pecans fair condition. Apples fair to good. Fall vegetables fair. Harvesting of pickling cucumbers started. Corn harvested 74% 1977, 60% 1976, 44% average. Cotton harvested 6% 1977, 1% average.

SOUTH DAKOTA: Warmer than average. Extremes: 36 and 91°. Precipitation mostly less than 1.00 in.

Topsoil moisture short. Silage cutting continues. Corn harvest to begin shortly. Sunflower and soybean harvest just beginning. Corn mature (safe from frost) 64%, 1976 87%, normal 73%. Soybeans shedding leaves 83%, 1976 89%, normal 72%. Soybeans harvested 8%, 1976 9%, normal 0%. Grain sorghum showing color 94%, 1976 89%, normal 83%. Fall plowing complete 65%, 1976 64%, normal 67%. Winter wheat seeded 76%, 1976 68%, normal 70%. Rye seeded 69%, 1976 34%, normal 57%.

TENNESSEE: Temperatures 1 to 6° above normal. Precipitation heavy with 1.50 to 3.00 in.

Soil moisture adequate. Fieldwork: 2.7 days suitable. Pastures improved. Soybeans mature 8% 1977, 3% 1976, 5% normal. Cotton bolls open 70% 1977, 8% 1976, 27% normal. Cotton harvested 17% 1977, 4% normal. Corn mature 85% 1977, 63% 1976, 61% normal. Corn harvested 24% 1977, 9% 1976, 10% normal. Dark-fired tobacco harvested 86% 1977, 89% 1976, 76% normal. Burley tobacco harvested 84% 1977, 90% 1976, 84% normal. Air-cured tobacco harvested 88% 1977, 51% 1976, 82% normal. Fall plowing completed 60% 1977, 52% 1976, 55% normal. Wheat seeded 27% 1977, 16% 1976, 16% normal. Oats seeded 39% 1977, 30% 1976, 32% normal. Barley seeded 34% 1977, 29% 1976, 31% normal.

TEXAS: Cooler, thunderstorms; few locally heavy over north, east. Temperatures 1 to 2° below normal northwest, north, east; 1 to 2° above normal south, 4° above normal southwest, Edwards Plateau. Rainfall near normal, northeast, central, far south; 0.75 in. above normal upper Gulf Coast, 0.10 to 0.50 in below normal elsewhere.

Rains beneficial to pastures, some crops many areas. Cotton harvest more widespread southern High Plains; northern, southern Low Plains; high gear upper Blacklands. Sorghum harvest accelerating southern High Plains getting started northern High Plains. Corn harvest good progress. Harvest High Plains full swing. Soybeans filling pods; early varieties maturing, shedding leaves. Few fields harvested Blacklands, east. Peanut harvest active. First cutting rice virtually complete; second crop making heads. Sunflower harvest High Plains well underway. Wheat planting good progress. Minor replanting necessary northern High Plains due

locally heavy rain; few areas need moisture for germination. Oat seeding progressing. Sorghum harvested 66% 1977, 57% 1976, 58% average. Rice harvested 100% 1977, 100% 1976, 96% average. Corn harvested 41% 1977, 34% 1976, 39% average. Cotton harvested 17% 1977, 7% 1976, 14% average. Peanuts harvested 20% 1977, 22% 1976, 23% average. Wheat planted 37% 1977, 19% 1976, 30% average. Oats planted 17% 1977, 17% 1976, 20% average.

First oranges picked. Planting turnips, spinach, cantaloups, cabbage, tomatoes, melons, cucumbers. Rains slowed planting. Onions seeded for sets. Honeydews harvested. Cucumbers, cauliflower, cabbage making good growth. Harvest green peppers, tomatoes, okra, cucumbers, carrots, onions, melons, cabbage. Some pecans harvested. High winds broke limbs and knocked off nuts some orchards. Pastures, ranges many drier areas beginning to recover due to recent rains. Many ranchers still feeding, more moisture needed, especially Edwards Plateau, parts Trans-Pecos, Cross-Timbers, south Texas. Livestock condition varies excellent to poor, depending on available grazing.

UTAH: Recurring shower and thunderstorm activity. Accumulated amounts moisture generally light to moderate but locally heavy. Temperatures quite variable ranging from 3° below normal to 5° above.

Winter wheat planting 60% completed dryland areas, 28% in irrigated areas. Soil moisture for planting short. Harvest of 3d crop alfalfa hay half finished. Other crop harvest progress: Sweet corn 93%, tomatoes 54%, early potatoes 75%, corn silage 19%, dry onions 10%. Fruit crop harvest progress: Pears 95%, peaches 82%, apples 14%. Livestock condition fair to good.

VIRGINIA: Rainfall average 0.30 in. Temperatures normal; high 90°, low 38°.

Topsoil moisture short to adequate. Corn combining 36% done, 25% 1976, 14% average. Some peanut digging began, commercial crop begins next week. Flue 71% pulled, 73% 1976, 77% average. Fire 81% cut, 77% 1976, 72% usual. Burley 68% cut, 76% 1976, 64% average. Sun 76% cut, 74% 1976. Seeding: Wheat 10%, barley 11%, winter oats 10%; last year 7%, 8%, 11%. Apples 22% picked, 34% 1976.

WASHINGTON: West: Temperatures near normal. Precipitation 1.1 in. below normal coastal area, 0.30 to 0.50 in. below normal elsewhere.

Beet seed, carrots, sweet corn, potatoes and cauliflower, corn silage, and late crop hay harvest continues. Hay supplies good; range and pasture making good growth.

East: Temperatures near normal. Precipitation 0.10 to 0.20 in. below normal.

Golden Delicious apple harvest in full swing; some Red Delicious apple harvest starting. Beans, sweet corn, corn silage, grapes, potatoes continue to be harvested. Pears still being harvested. Fall planting of small grains off to a slow start, soil moisture quite short many areas. Winter wheat plantings 5 to 30% completed. Winter barley up to 30% planted.

WEST VIRGINIA: Temperatures near normal except above normal central. First frosts scattered in higher elevations. Precipitation near normal except below normal northeast.

Fieldwork: 4.0 days suitable. Haying and silage cutting main activities. Soil moisture adequate. 2d haying 88% complete, 86% 1976, 84% average. 3d haying 48% complete, 46% 1976, 44% average. Corn development 4% silked, 35% dough, 45% mature, 16% harvested, 8% 1976. Corn condition fair to good. Potatoes 62% dug, 80% 1976, 70% average. Wheat

World Weather and Crop Update

Mid-August - Mid-Sept. 1977

USSR. Cool, damp weather that prevailed over most of the USSR during the latter half of August gave way to more favorable weather during the first half of September. Although temperatures turned colder at mid-month and moderate precipitation fell in the western and central parts of European USSR, weather conditions have favored the ripening and/or harvesting of row crops. Early corn for grain is in full maturity; the harvest was underway in the more southerly regions. Lifting of sugarbeets and potatoes progressed, and harvesting of sunflower seed, the USSR's most important oilseed crop, got underway; 10 percent of the crop was in by September 12. As of that date, seeding of winter grains had been completed on 23 million hectares or 60 percent of the planned area. Official Soviet reports indicate that by September 12, small grains and pulses had been cut on 106 million hectares, 86 percent of the sown area, and threshing was completed on 99 million hectares. The small grain harvest is now concentrated in the spring wheat regions of western and eastern Siberia and northern Kazakhstan; the tempo of harvesting picked up considerably during the past two weeks with more favorable harvesting conditions in these areas.

ASIA. In the People's Republic of China the harvesting of coarse grains, vegetables, and industrial crops in the north and northeast has been progressing under generally favorable conditions. In the rice-growing central provinces south of the Yangtze River, precipitation has been relatively light in recent weeks, but heavy rains in midsummer have provided ample irrigation water for the late crops. India's monsoon continued active although less intense than earlier in the summer. Cumulative rainfall from June 1 to September 14 was normal or above over the entire country excepting eastern Uttar Pradesh, northwestern Andhra Pradesh, Nagaland, Manipur, Mizoram, and Tripura. Outlook for fall-harvested food grain crops is quite promising; a possible record crop maybe in the making. In Australia, winter rainfall was well below average over the winter grain regions, and extensive areas are suffering from serious or severe rainfall deficiencies. Precipitation during August was well below normal except in the southern wheat areas in western Australia. Light showers fell in New South Wales and in the extreme southwest within the past week.

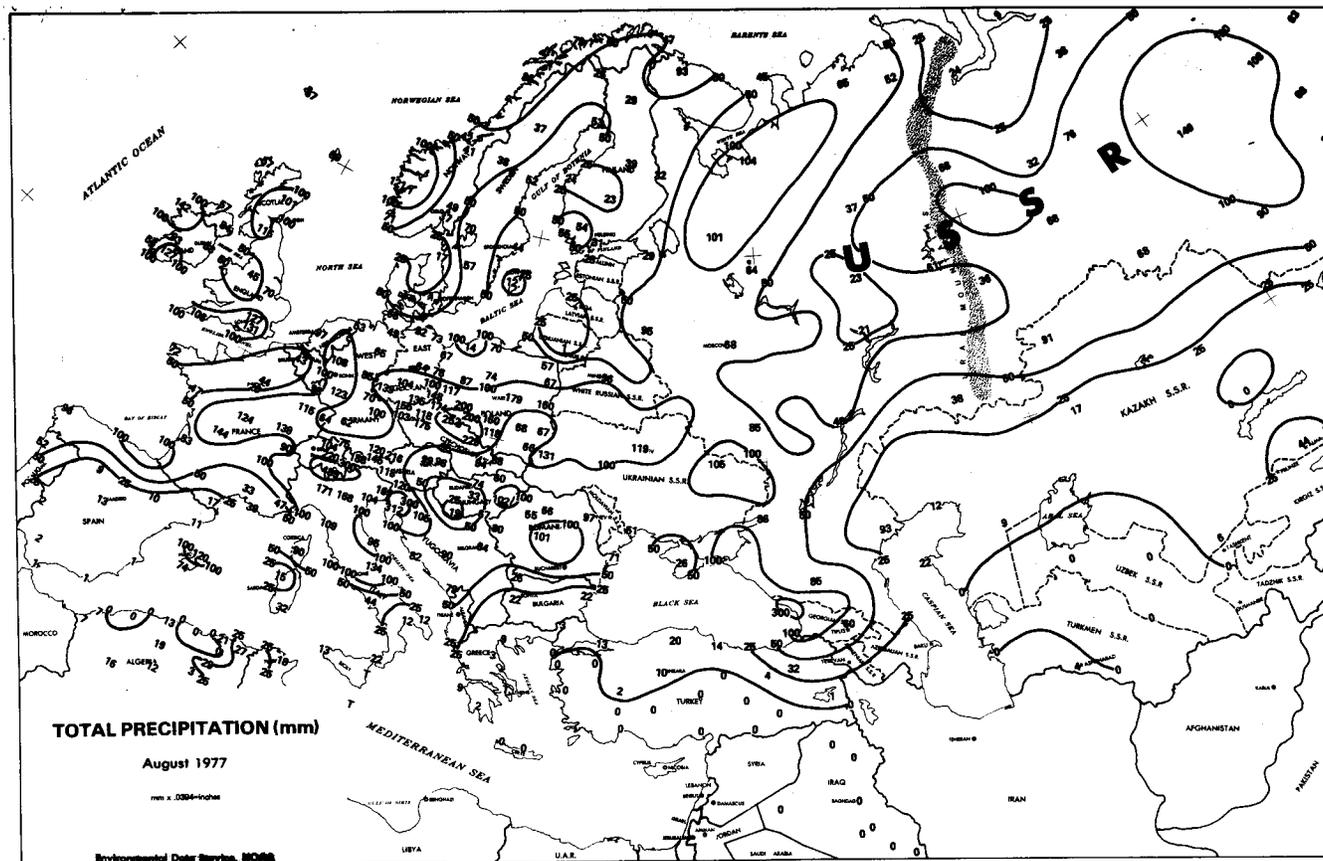
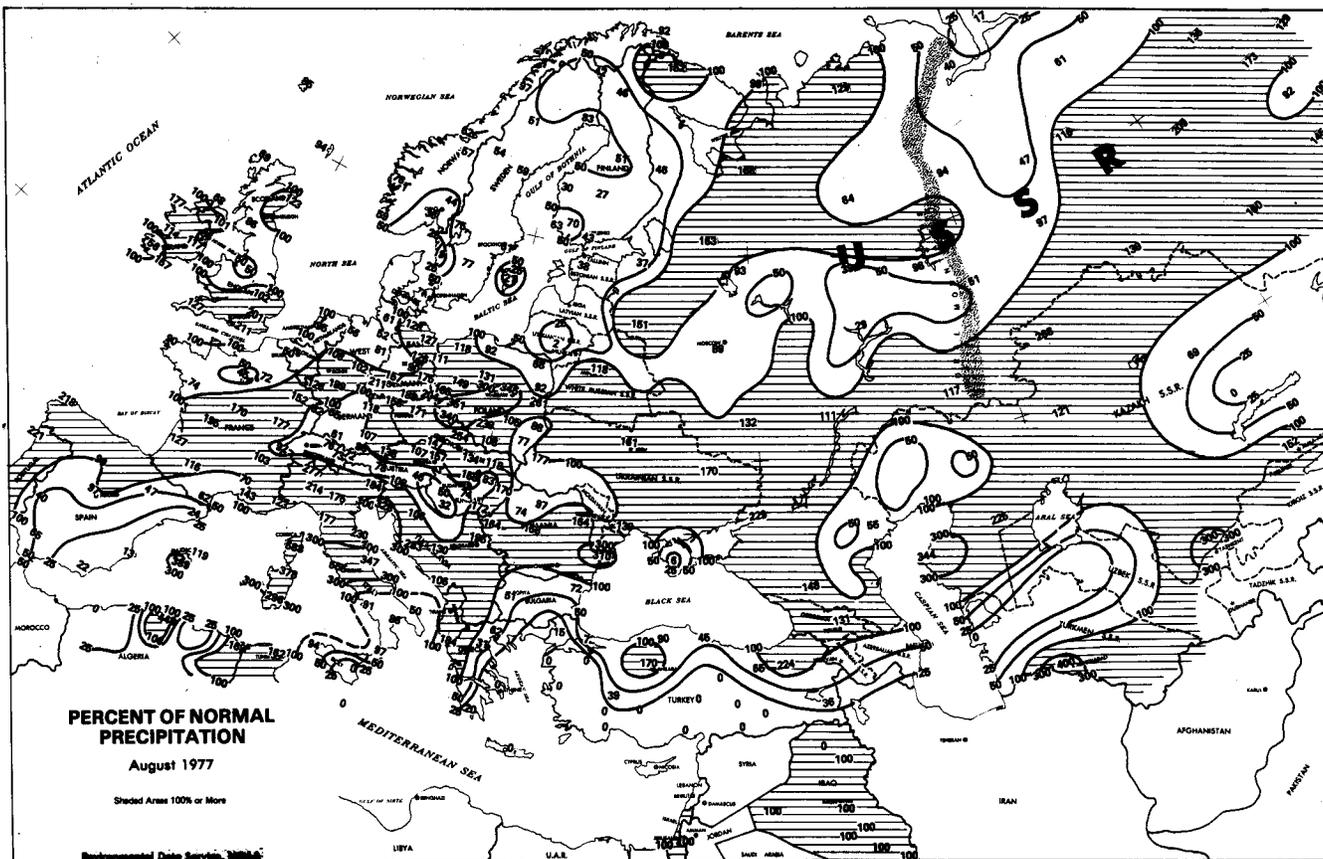
AFRICA. North Africa--Morocco, Tunisia, Algeria--was generally warm and dry during the latter half of August. However, shower activity picked up during the first half of September. South Africa, which has been unusually dry this winter, also experienced some light showers in the past two weeks in the main agricultural area. Western and eastern Sahel countries of Mauritania, Senegal, and Chad continued to suffer from a severe moisture deficit during the current monsoon season.

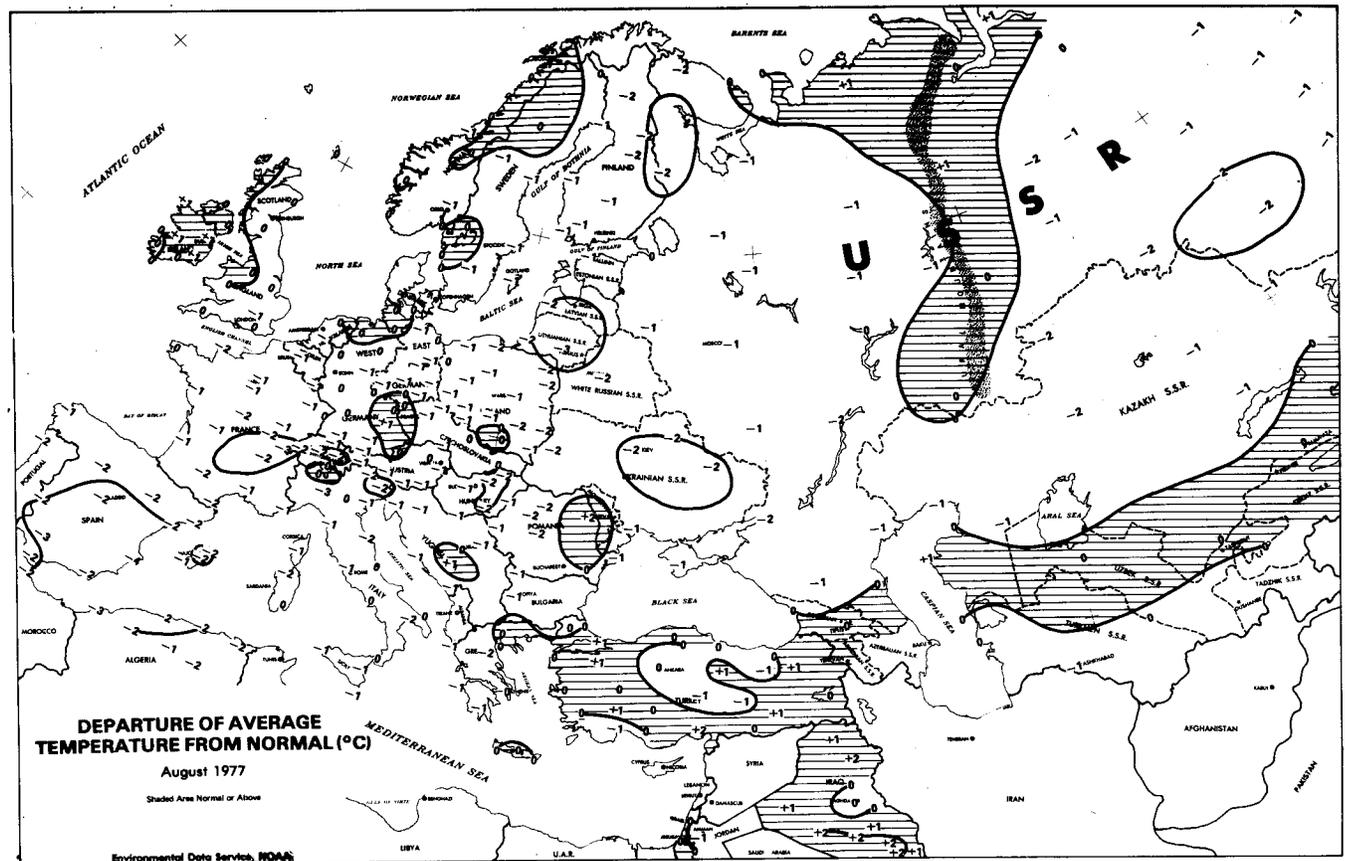
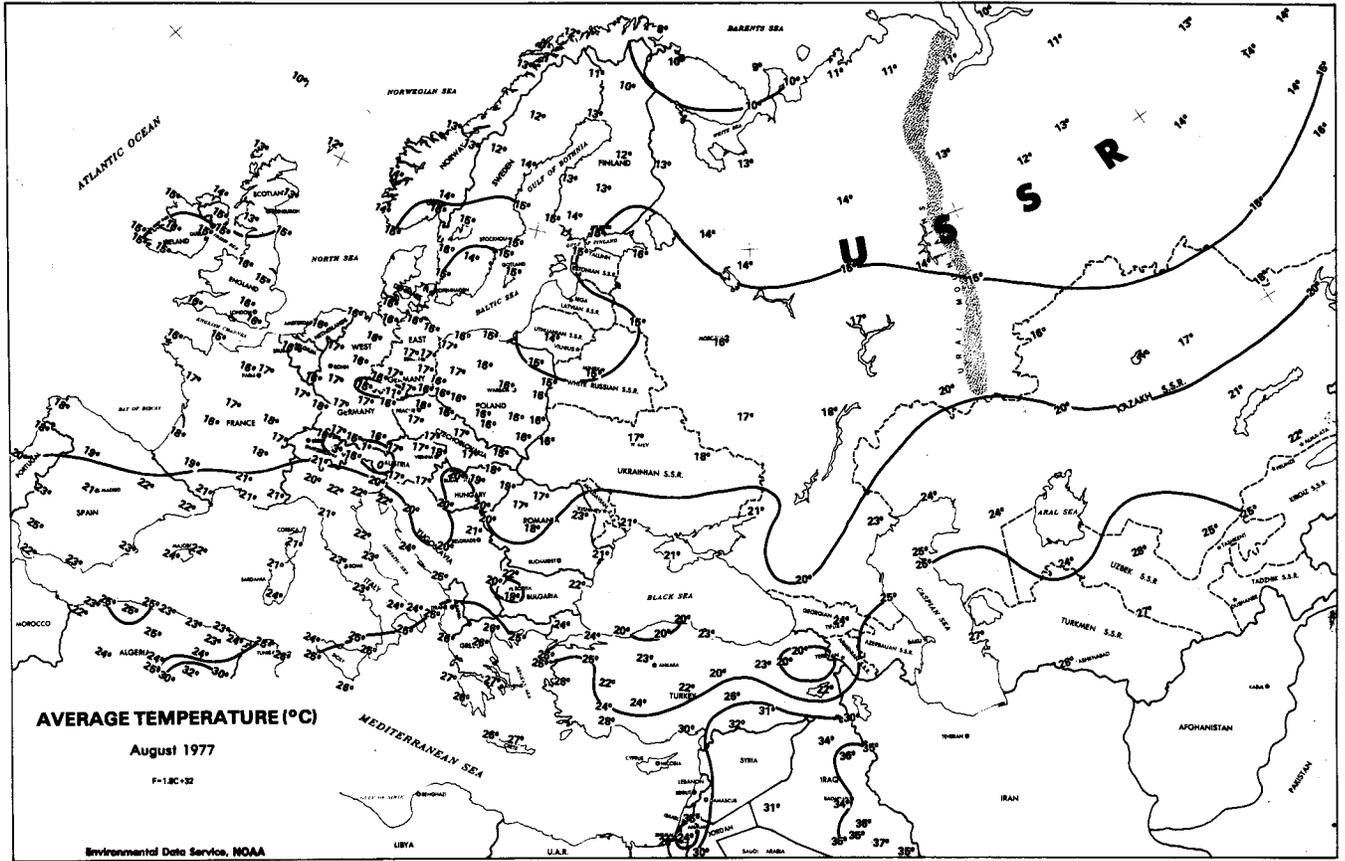
SOUTH AMERICA. Light to moderate showers occurred during the past week in the wheat areas of southern Brazil, especially Rio Grande do Sul, which has

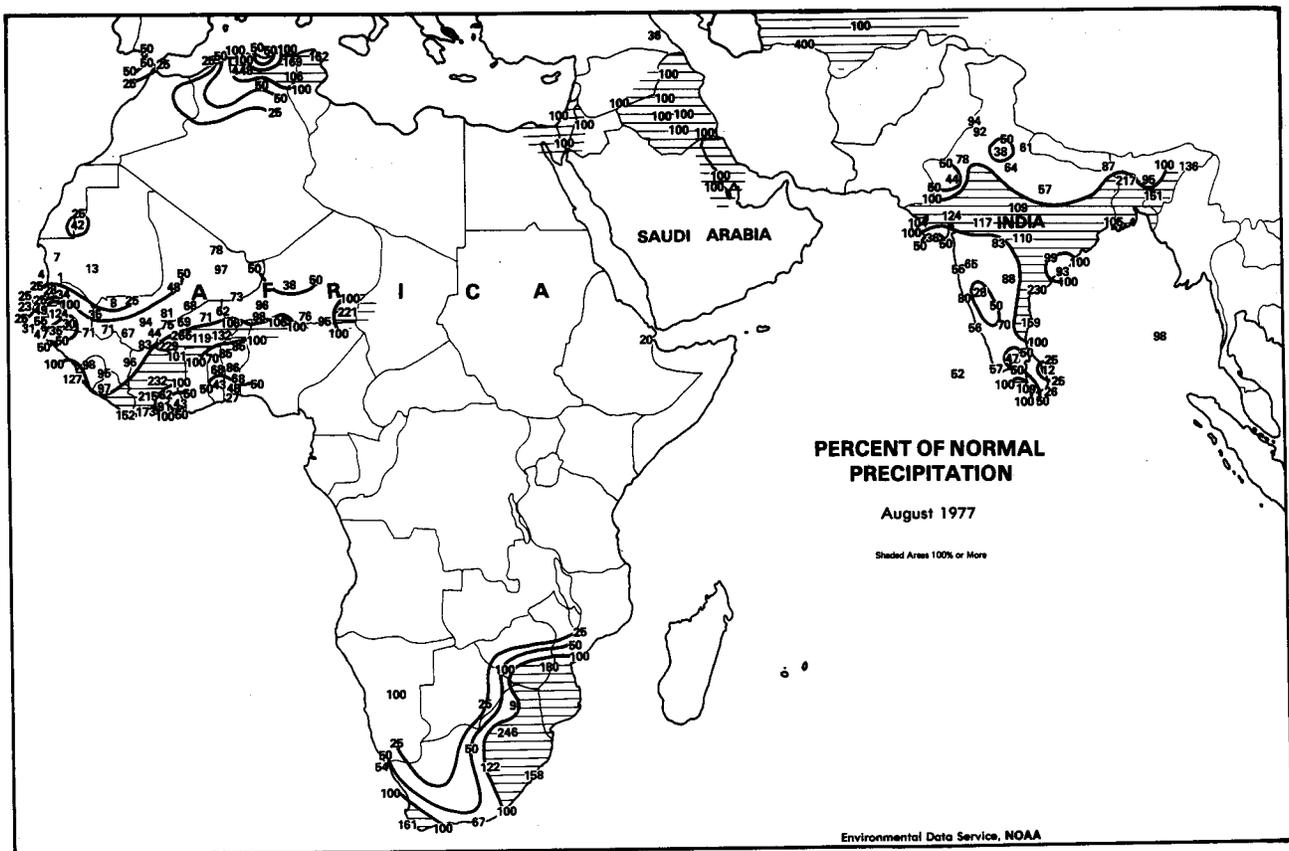
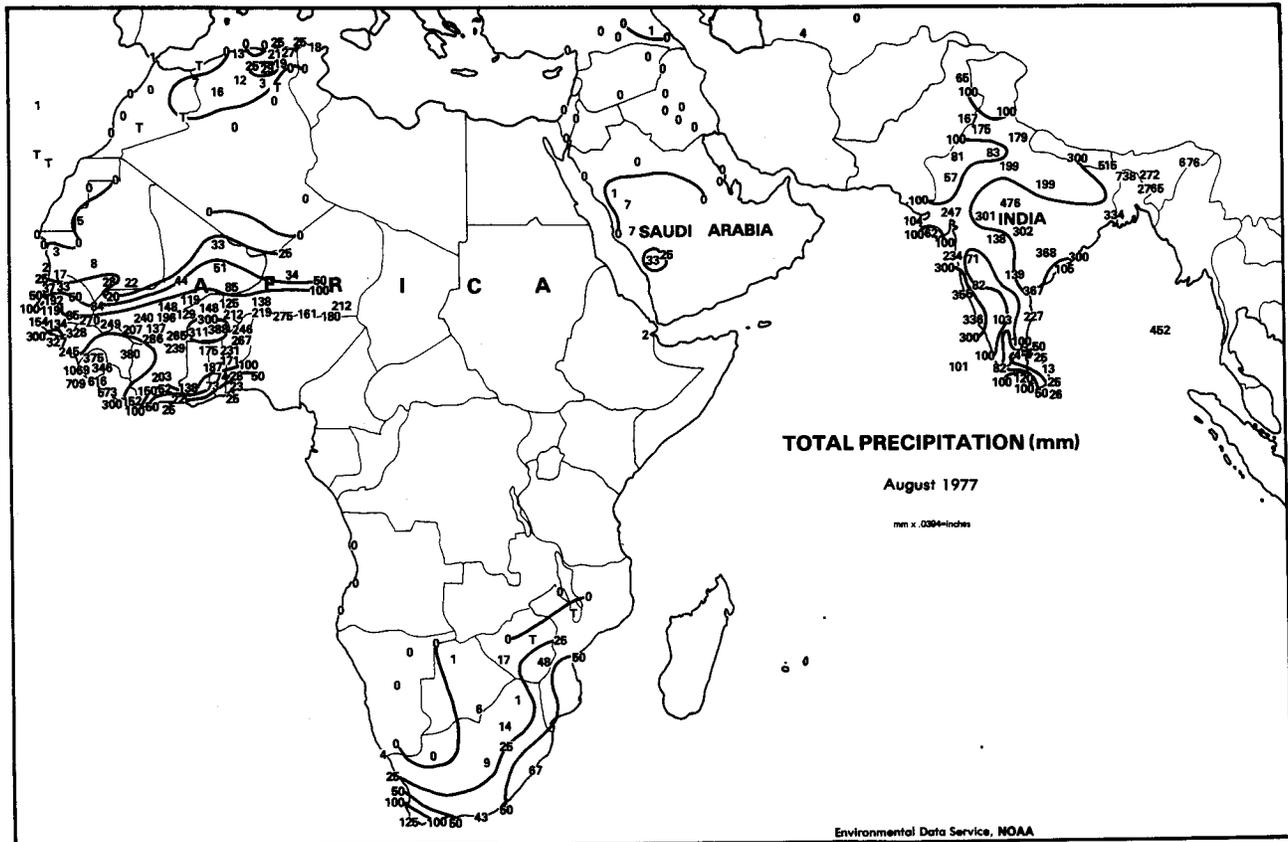
experienced heavy rainfall since mid-August. However, eastern Brazil, in general, has been suffering from a moisture deficiency. Temperatures over the past month were well above freezing in Brazil's coffee growing states posing no threat to the coffee trees. Parts of Argentina's wheat belt are under heavy stress as the western and south-western wheat areas have been without significant moisture for more than four months. Farmers in some areas were unable to plant because of the severe lack of moisture which has also stunted growth in fields that were seeded.

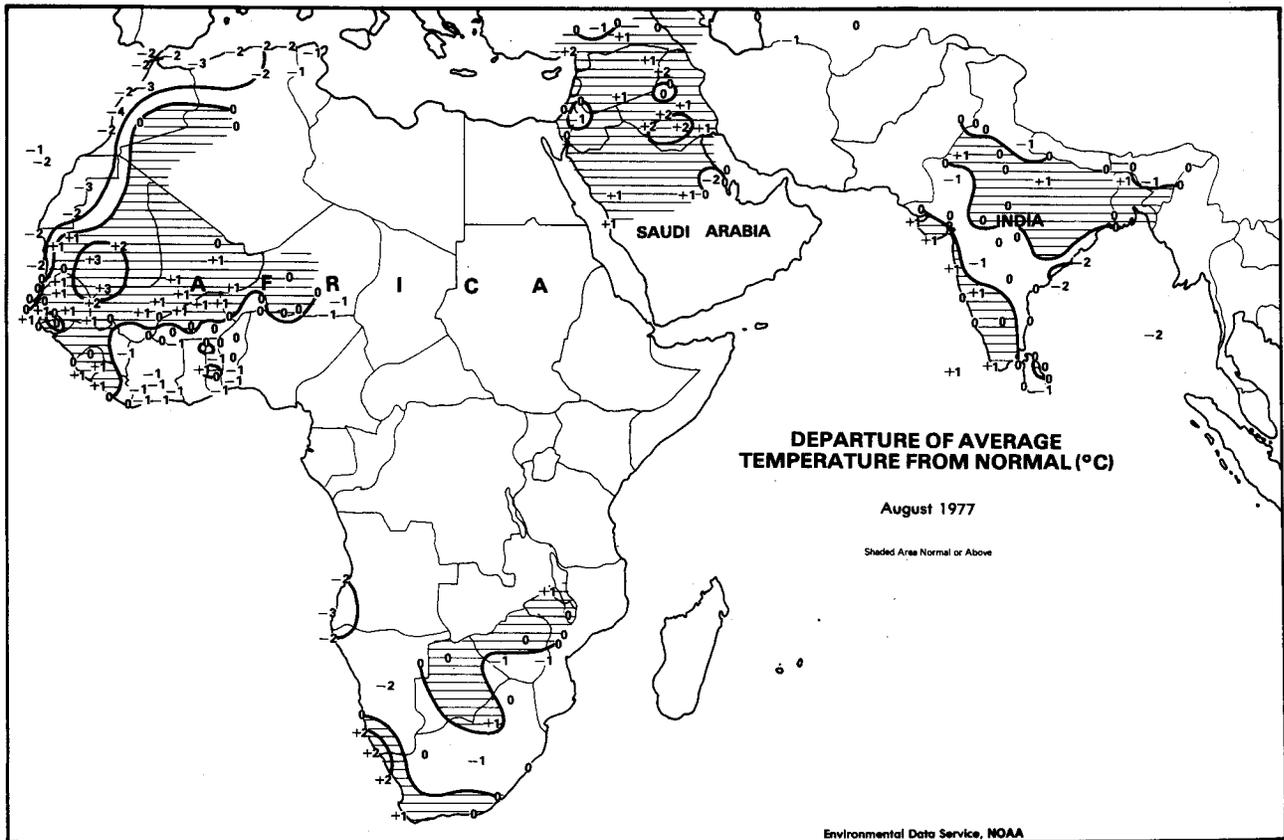
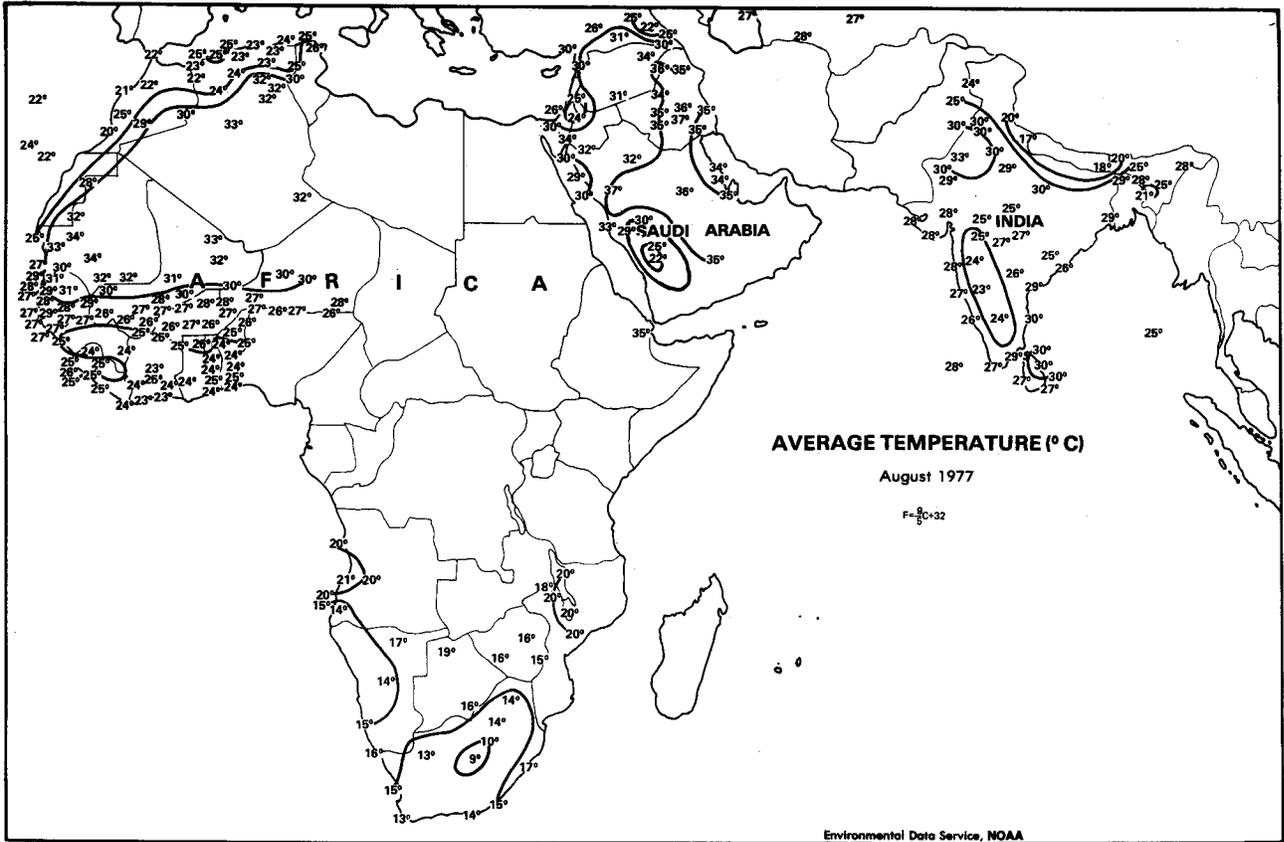
EUROPE. August was cool and damp throughout most of western Europe impeding the small grain harvest and the artificial drying of harvested grain was needed because of high moisture content. Weather during the first half of September, however, was generally favorable for maturing row crops and vineyards. Spain's moisture situation worsened during the past month, especially in the south where it is very short; non-irrigated crops and pastures are under heavy stress. In contrast precipitation levels in Italy are well above normal to excessive in the north and below normal in the south. In eastern Europe, excessive precipitation had below normal temperatures in August hampering the harvest of small grains in the northern half of this region--East Germany, Poland, and Czechoslovakia; however, weather was more favorable during the first half of September in these countries. August rainfall was below normal in the southern half of eastern Europe except Romania. Showers were generally light in eastern Europe during the first half of September, although Hungary experienced moderate to locally heavy showers last week while scattered heavy showers fell in Yugoslavia. Dry conditions continued in Greece which has been suffering from drought since the beginning of the year. Dry, hot weather has continued through August and into mid-September in nearly all parts of Turkey except the eastern Black Sea Coast. The drought in western and southern Turkey has caused a sharp drop in water levels of reservoirs which has endangered water supplies for both power and irrigation.

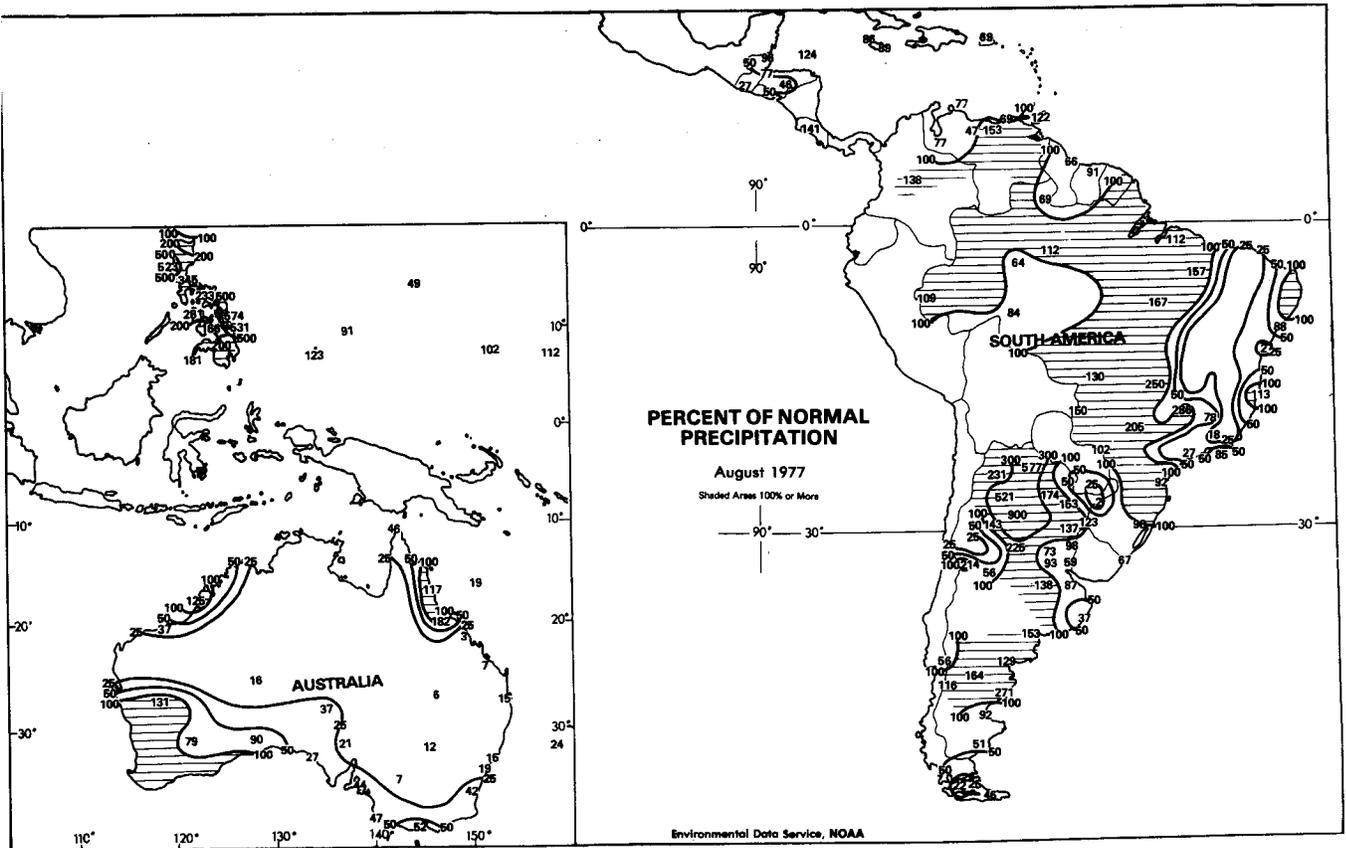
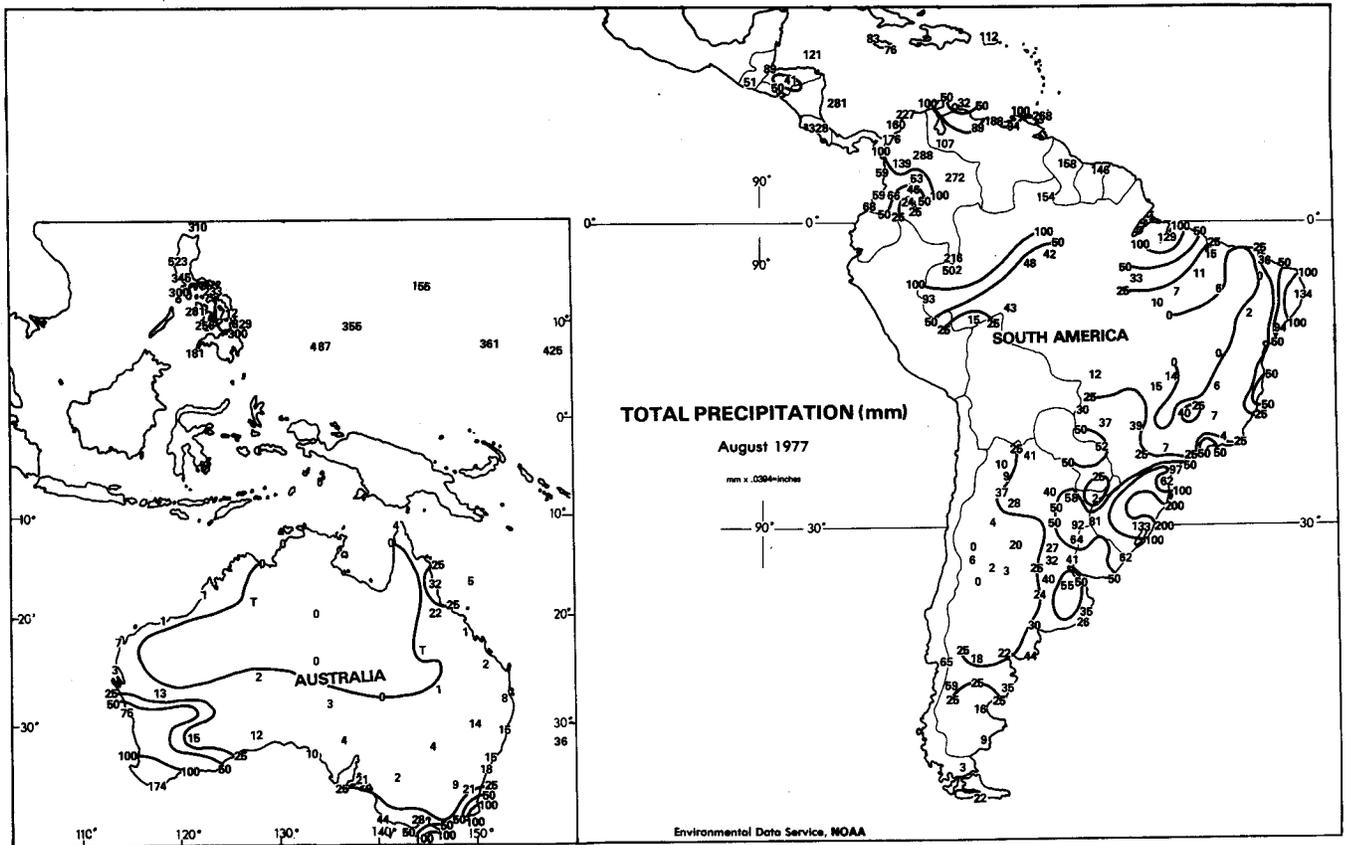
NORTH AMERICA. The moisture situation in the Southeast has improved greatly in recent weeks as significant rains fell throughout Alabama and the Carolinas. Recent abundant rains, even excessive in places, improved soil moisture from Kansas to New England. However, soil moisture continued short in the middle Atlantic States. Some recuperation in soil moisture also took place in the northern Great Plains. Welcome rains, up to two inches in some areas, fell on parts of drought-stricken northern California and into western Oregon and Washington. Some moisture also occurred in the wheat areas of these latter two States improving conditions for planting and fall pastures. Cool, wet weather continued to hamper harvesting into mid-September in the Canadian Prairie Provinces. Manitoba was particularly hard hit by heavy rains in September which brought the harvest to a standstill.

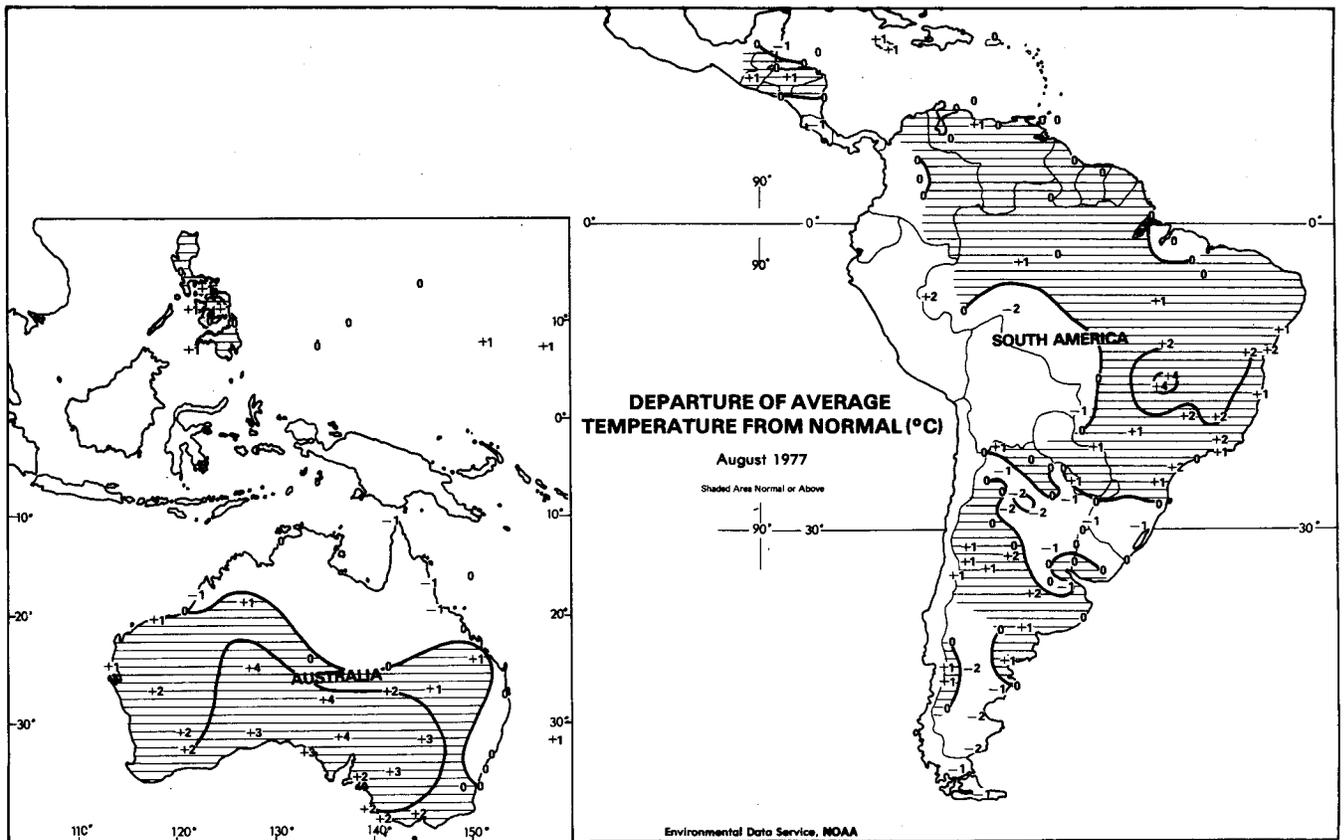
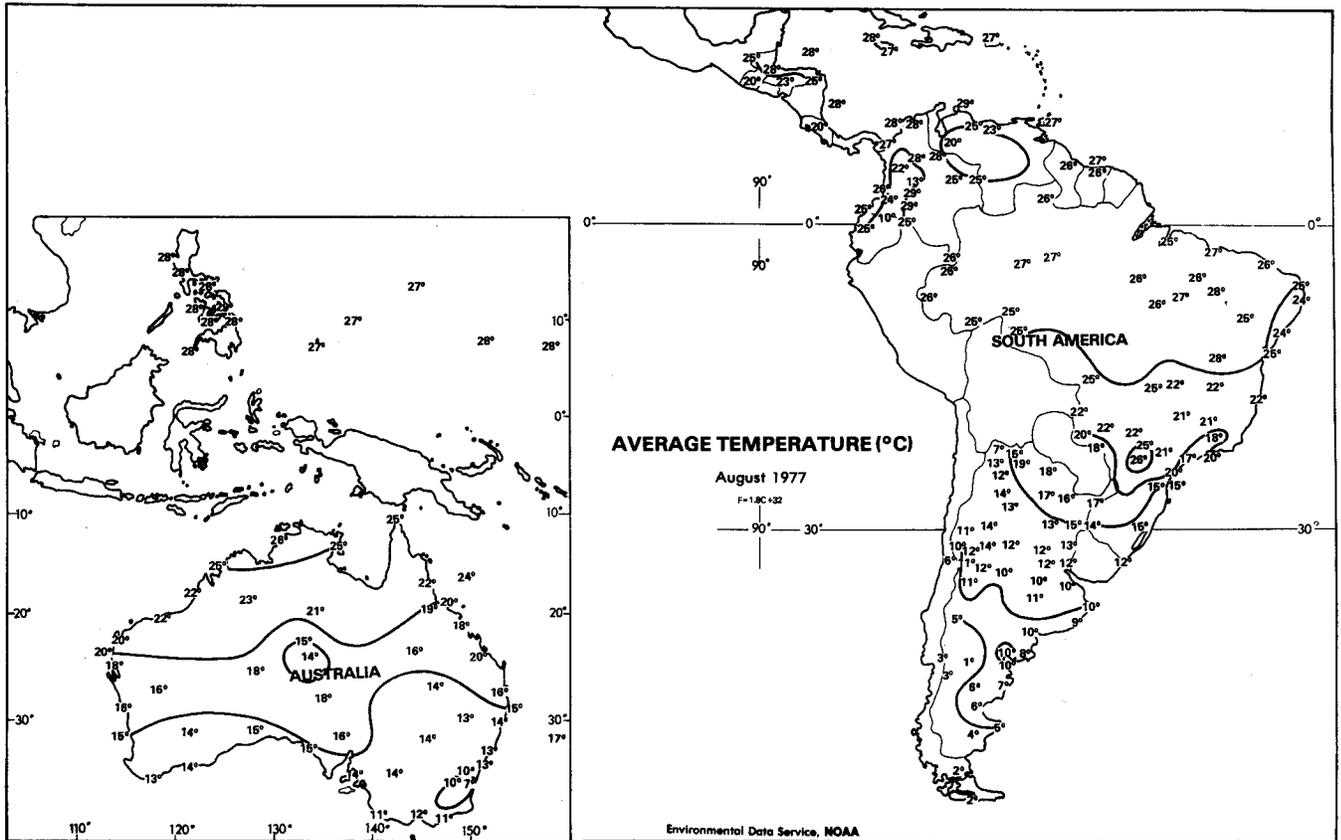




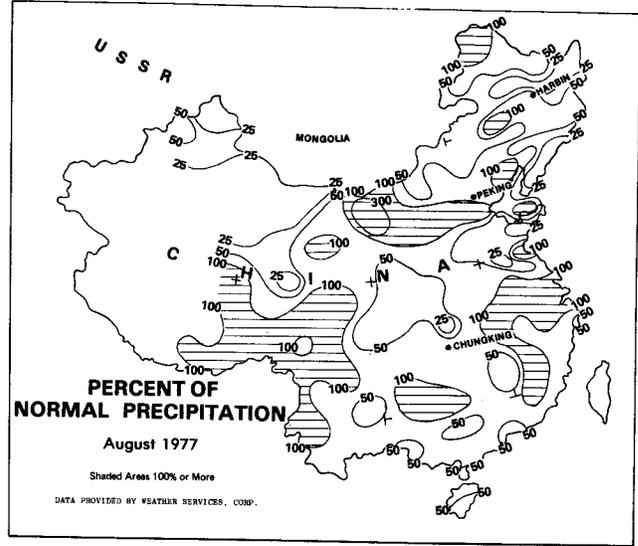
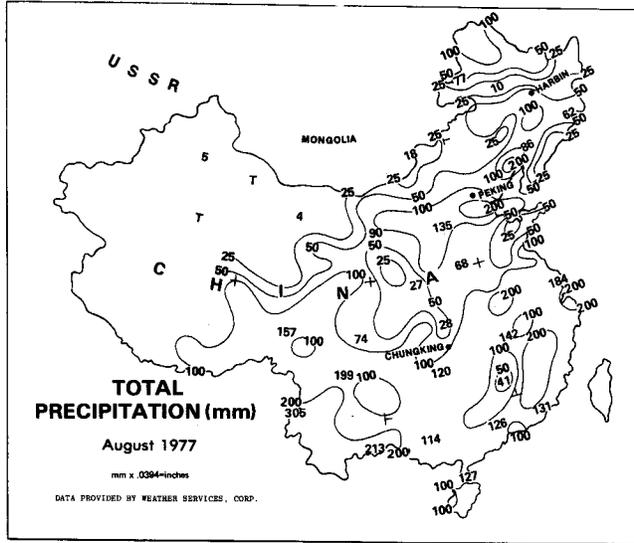




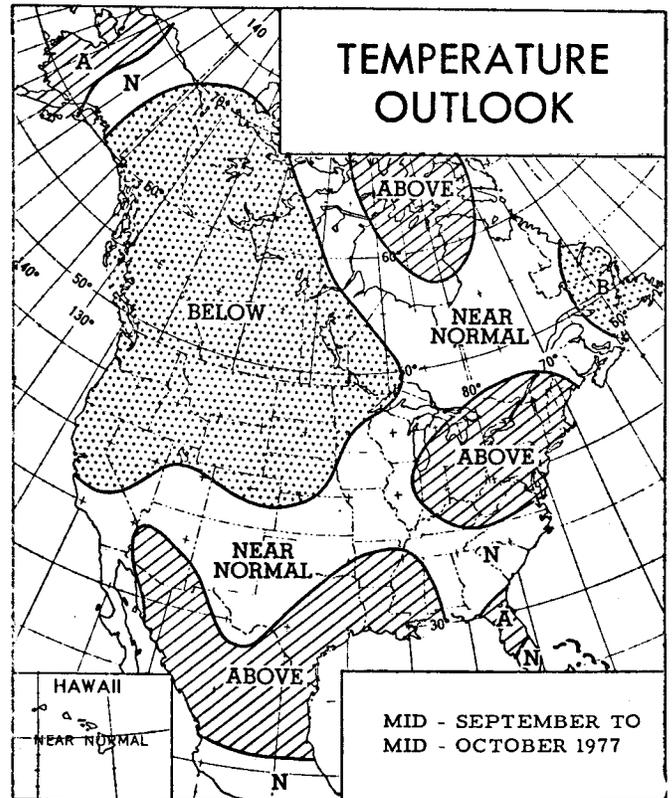
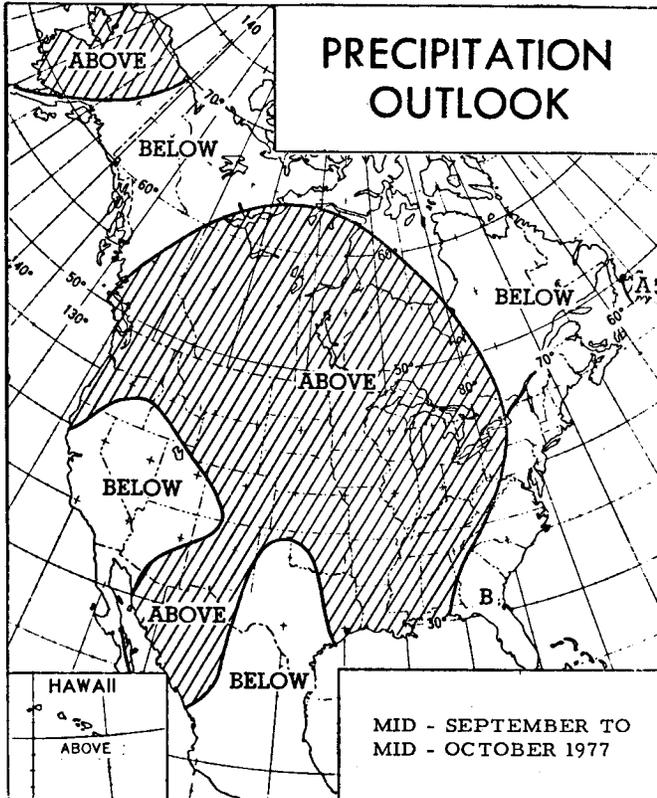


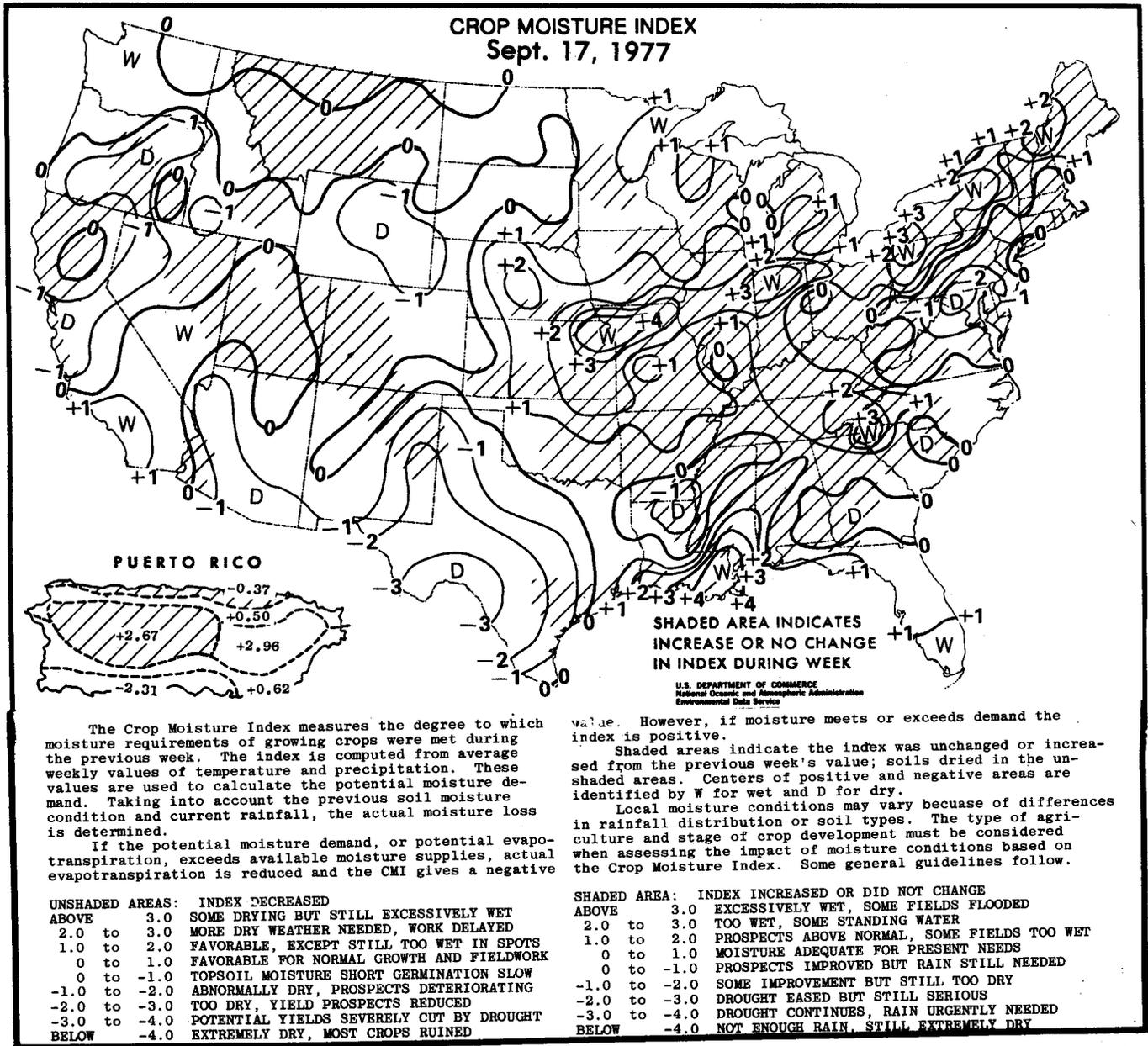


China Precipitation



Average Monthly Weather Outlook







FIRST CLASS MAIL

HARVESTING PROGRESS
 Percent of acres harvested as of September 18

corn

	1977	1976	Avg.
GA	61	45	22
ILL	5	4	3
IND	NA	NA	NA
IOWA	1/	NA	NA
KANS	15	15	10
KY	14	NA	NA
MICH	NA	NA	NA
MINN	6	5	1
MO	19	18	10
NEBR	NA	NA	NA
N C	49	46	33
OHIO	1/	NA	NA
PA	NA	NA	NA
S DAK	0	0	0
TEX	41	34	39
WIS	1/	NA	NA

These 16 States produced 92% of the 1976 U. S. corn crop.

1/less than 5%

NA Not Available

winter
 h
 e **SEEDING**
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Percent of acres planted as of September 18

cotton

	1977	1976	Avg.
ALA	12	0	0
ARK	14	0	0
GA	11	0	2
LA	4	0	0
MISS	11	0	1
MO	10	0	0
N C	0	0	0
OKLA	0	0	0
S C	6	0	1
TENN	17	0	4
TEX	17	7	14
11 Southern States	14	4	8

These 11 States produced 67% of the 1976 U. S. cotton crop.

sorghum

	1977	1976	Avg.
COLO	0	0	0
KANS	5	10	5
MO	22	12	18
NEBR	0	0	0
OKLA	1/	NA	NA
S DAK	0	0	0
TEX	66	57	58
7 States	29	25	25

These 7 States produced 90% of the 1976 U. S. sorghum crop.

	1977	1976	Avg.
COLO	80	64	57
ILL	2	5	4
IND	NA	NA	NA
KANS	15	10	15
MO	5	NA	NA
MONT	50	NA	35
NEBR	40	50	50
OHIO	10	10	10
OKLA	25	8	NA
TEX	37	19	30

U. S. 27 18 26
 These 10 States produced 74% of the 1977 U. S. winter wheat crop.