WEEKLY WEATHER AND CROP BULLETIN

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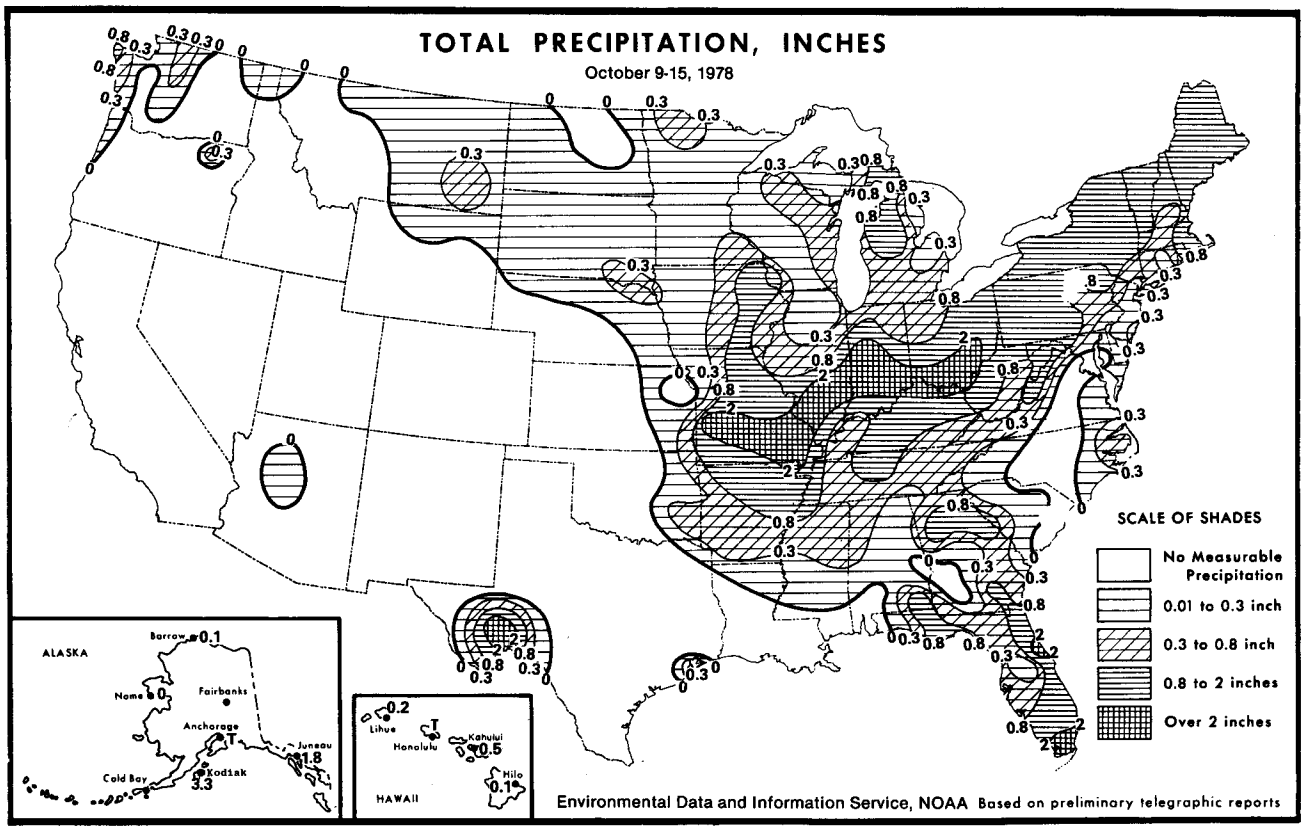


National Weather Summary

October 9 - 15

HIGHLIGHTS: Wet and cool conditions dominated most of the East while dry, hot weather continued over the West.

Very heavy rains fell from southern Missouri through southern Ohio and over parts of Florida and Southwest Texas. Lighter amounts fell over the eastern U.S. except in dry southwestern Georgia, the central and western Gulf Coast, and parts of the mid-Atlantic States.

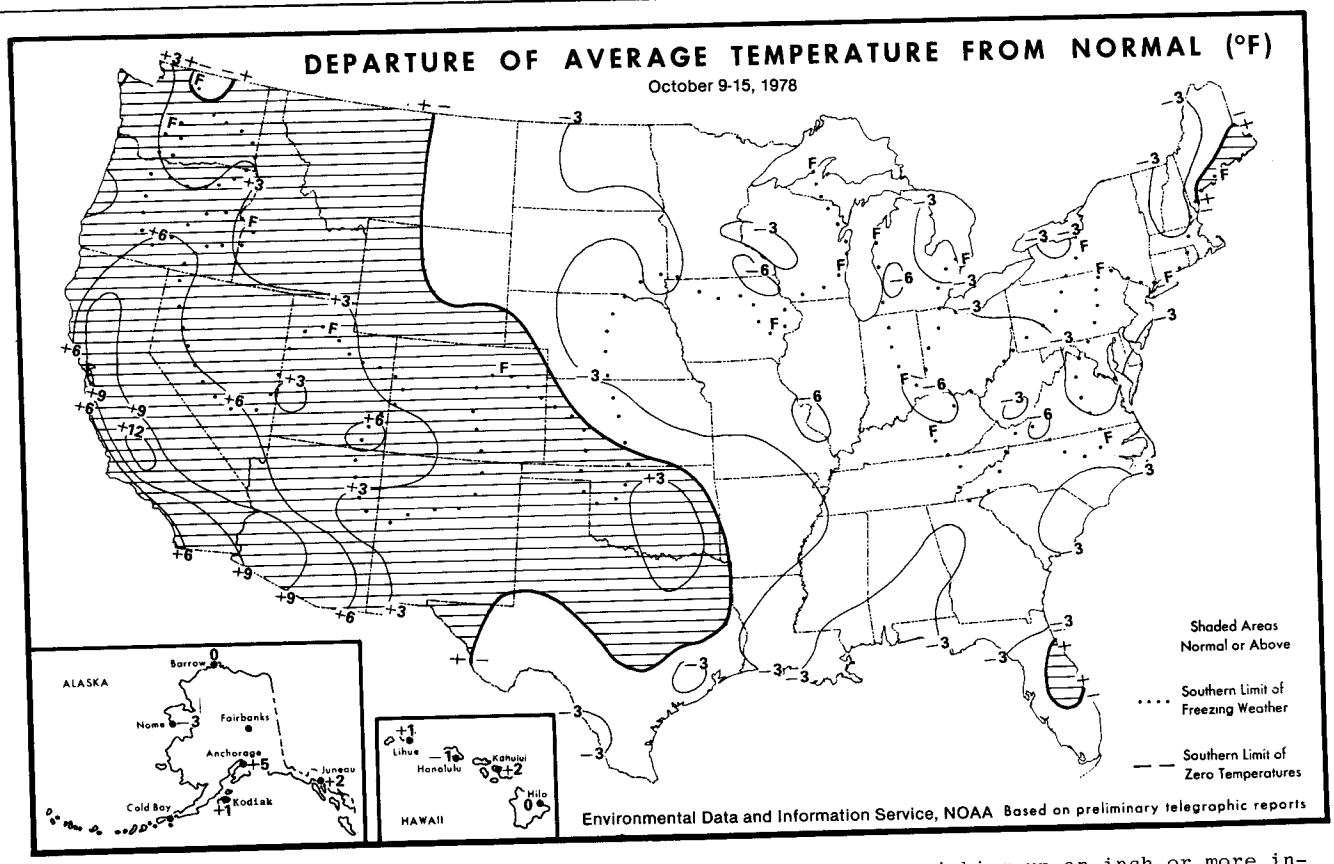
Temperatures in the Desert Southwest warmed considerably. Averages rose up to 12 degrees above normal in the San Joaquin Valley of California. Much of the East averaged 4 to 6 degrees below seasonal normals with several influxes of cool Canadian air during the week.

The freeze line spread across parts of the eastern Corn Belt and as far south as the Appalachian Mountains of North Carolina, north central Oklahoma, and northwestern New Mexico.

Cold air from the Midwest pushed eastward and southward on Monday chilling a large section of the country east of the Mississippi River. More than a dozen record low temperatures were called in; a sampling showed 35° at Philadelphia, 29° at Roanoke, Va., Tallahassee's 42°, 37° at Meridian, east central Mississippi, and the Nation's low reading of 23° at Elkins, eastern West Virginia, and Glens Falls, eastern New York.

Rainfall accumulations amounted to less than an inch in the Pacific Northwest, Midwest, and Florida. A tornado was spotted in southwestern Minnesota and large hail pelted an area just south of Manhattan, eastern Kansas.

Frosty temperatures pushed the mercury to record lows along the Atlantic Seaboard on Tuesday. Cape



Hatteras, N.C., notched 44° while Baltimore checked in at 36° and Atlantic City registered a record-equaling 34°.

Meantime a stationary front extending from northern Minnesota to West Texas spread showers and hail over several stations. Kansas City reported golf ball-sized hail, and Springfield, southern Missouri, noted nearly one and a half inches of rain. Storms fell over Florida, and 3.25 in. was dumped on Daytona Beach.

On Wednesday, showers dampened an area from the middle Mississippi Valley across to the Ohio Valley and into the Great Lakes. The heaviest rain was about a half inch in Indianapolis, Paducah, western Kentucky, and Sault Ste. Marie, northern Michigan. Parts of Florida also gathered some moisture; Miami had nearly an inch.

Afternoon temperatures ran 10 to 15 degrees warmer than normal over the lower half of the Plains, while unseasonable warmth covered the Southwest and much of California.

A cold front entered the Ohio Valley on Thursday carrying thunderstorms along its leading edge. Hail and up to 4 inches of rain surprised southern Indiana where localized flooding became a problem. One-half to more than one inch hit parts of Missouri and Illinois; Cincinnati weathered nearly 2 inches. Stations in Florida chalked up one-half to one and a quarter inches.

The western half of the Nation remained dry and rather hot along the southern tier. Albuquerque topped its 1950 record reading by 2 reaching 87°--- the sixth time a record was tied or broken there this month. Tulsa, at 94°, sweltered under its hottest temperature ever this late in the year. The 94° at Oklahoma City broke the 1962 record by 4 degrees.

The cold front swept further east on Friday pushing ahead a wide band of showers from Maine to Texas. Stations picking up an inch or more included Nashville, Dothan, southeastern Alabama, and in Georgia, Atlanta and Augusta.

Temperatures in the southern sections of California and Arizona persisted in the 100's. By contrast, cold air blanketed the northern tier of States extending into the central parts of the Plains and Mississippi Valley. Missoula, western Montana, notched a record-equaling 21°.

On Saturday, much of the heaviest rain fell from New York and Pennsylvania through New England. Half-inch to more than one-inch rainfalls dotted most of the area. Utica, central New York, gathered nearly 2 inches. Points in Florida also measured some heavy rain; Key West got about an inch and Homestead was soaked by 2 inches.

The Southwest muddled through another hot day; Flagstaff, northern Arizona, reached a record-tying 76° while Bakersfield, southern California, at 102°, managed its highest reading this late in the year. A different story in the Midwest showed record-equaling temperatures of 27° at Madison, Wisc., and Sault Ste. Marie. New records were established with readings of 21° at Duluth, eastern Minnesota, and Valentine, northern Nebraska.

Dry Canadian air dominated a large portion of the country east of the Rockies with only one-third to one inch of rain dampening parts of upper New England, Florida, and the Great Lakes region.

More than a dozen record low temperatures chilled the southern tier of States from Texas to Alabama, the East Coast from New York to Georgia, and northern Michigan. Examples revealed 23° at Alpena, Mich.; 47° at Corpus Christi, Tex.; 32° at Meridian, Miss.; and 35° at Atlantic City. A record-tying 32° equaled a 102-year-old mark at Nashville.

National Agricultural Summary

October 9 - 15

HIGHLIGHTS: Fall row crop harvests advanced quickly throughout most of the Nation, except in parts of the Corn Belt where rain slowed progress. Lower temperatures firmed soils and helped harvesting in northern areas. Corn harvest reached 38%, lagging 1977's 41% but ahead of the 32% average. Soybean harvest stood at 40%, ahead of last year's 34% but short of the 42% average. Cotton picking stood at 32%, equaling the average but behind the 39% last year. Grain sorghum harvest advanced to 56%, one point ahead of last year and 5 points ahead of the average. Winter wheat seeding reached 84%, falling between last year's 83% and the 85% average. Pastures rated good throughout the north central States and the Northeast, reflecting mostly adequate soil moisture. Grasslands in the South rated mostly fair, but soil moisture was short. Western rangelands deteriorated in most areas also reflecting short moisture supplies.

SMALL GRAINS: Winter wheat seeding for the 1979 crop made good progress and reached 84% completion--close to 1977's 83% and the 85% average. Recent rains generally improved germination and growth in the southern Plains. However, in Kansas, dry soils slowed germination and growth; seeding was almost finished at 90%. In South Dakota and Nebraska planting was complete. Oklahoma wheat rated fair to good with 37% emerged; no pasture was available from the new growth. Texas wheat seeding advanced at a fast pace. The early stands on the High Plains rated good. In Montana, germination was good. In Colorado, 80% of the crop emerged which was slightly behind recent years. Corn Belt seeding advanced rapidly and stood at 20 to 30 points ahead of last year but only slightly ahead of average.

CORN: Corn harvest advanced 13 points for the week to reach 38%. Rains slowed progress in some Corn Belt States, but farmers made good progress.

In the eastern north central States, harvest reached 29%, compared with 30% last year and the 25% average. This compared with 18% the week before.

In the western north central States, harvest advanced 16 points for the week and stood at 39%. A year ago, harvest reached 42% and on the average 33%. Stalk rot and ear drop continued to concern Iowa farmers, but harvest losses remained light to moderate.

In the South, harvest raced toward completion, ranging from 77 to 95% in the Deep South, and 56 to 59% in the middle South.

SOYBEANS: The Nation's soybean harvest reached 40%, compared with 34% last year and the 42% average. Harvest advanced rapidly on firm soils in the extreme North, but rains increased soybean moisture in parts of the Corn Belt.

In the eastern north central States, combining moved past the halfway mark to 58%, surpassing 1977's 44% but lagging the 63% average. Rains delayed harvests in some areas.

Harvest stood at 49% in the western north central States--ahead of 1977's 40% but short of the 51% average. Harvest losses were light.

In the south central States, harvesters managed 22%, one point ahead of last year and 2 points ahead of the average. Maturity ranged from 55 to 90%, generally equal to last year but surpassing the average. Some freeze damage was reported, but the low temperatures helped dry the crop.

COTTON: Picking in the 11 major southern States reached 32%, compared with 39% last year and the 32% average. Most bolls were open, and dry soils continued to defoliate quickly the southeastern crop. Texas harvest started on the High Plains. Farmers defoliated moisture-stressed dryland fields, but a frost was needed to defoliate most of the crop before the major harvest can begin. Picking was in full swing in Arizona. New Mexico had no frost in cotton-producing areas which limited harvesting operations. Southern California's cotton was 10% picked and just getting started in the San Joaquin Valley.

OTHER CROPS: Grain sorghum harvest tallied 56%, surpassing 1977's 55% and the 51% average. The crop was about 85% mature in northern production areas. In Texas, most early High Plains fields were ready to combine.

Rice harvest neared completion in the Delta with Arkansas and Mississippi reaching 93%. Delta States harvesting was about done, except for the second cutting in Texas which progressed well. California's rice harvest advanced to 40%.

Potato digging kept pace with last year and ranged from 70% in Michigan to 87% in Minnesota, 95% in North Dakota, and 70% in Idaho. Potato harvest extended to all areas of the Pacific Northwest.

FRUITS AND NUTS: The southern apple harvest was almost finished, and well advanced in northern areas. New York growers harvested Concord and Catawba grapes. Pecan harvest just got started in the Southeast; the crop rated mostly fair.

Florida citrus groves rated excellent but needed more rain. Harvest increased with grapefruit movement most active. Texas harvested early oranges. Arizona harvested lemons and white grapefruit. California harvested desert grapefruit, lemons, and a few Valencias.

VEGETABLES: Northern growers harvested cold-hearty vegetable crops including onions, celery, cabbage, beets, and carrots. South Carolina harvested cucumbers, snap beans, and squash. Florida vegetables rated very good. Planting continued for some crops while harvests increased in South Florida. Farmers maintained spray programs and irrigated. Wet soils delayed vegetable planting in the lower Rio Grande Valley. Northern Texas growers harvested lettuce, carrots, bell peppers, cabbage, and cucumbers. In California, broccoli and cauliflower moved to market in heavy volume. Processing tomato harvest is almost complete.

PASTURE AND LIVESTOCK: Pastures generally reflected soil moisture conditions throughout the Nation. In the northern half of the country east of the Mississippi River, pastures rated good; in the southern half, they scored fair to poor. Western rangelands generally deteriorated. Texas became the one bright spot where grasslands improved because of recent rains. Arizona ranges diminished quickly; stock tanks dried. California grasslands needed moisture for new grass growth. Pacific Northwest pastures scored above average. Above-normal temperatures were favorable for cattle. Most herds moved to winter grazing lands.

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., Oct. 15, 1978

States and Stations	Temperature °F Average	Temperature °F Departure	Precipitation Inches Total	Precipitation Inches Departure
ALA.Birmingham	61	- 4	.1	- .5
Moblie	69	- 1	T	- .6
Montgomery	65	- 2	T	- .5
ALASKA.Anchorage	42	+ 5	T	- .3
Barrow	17	0	.1	0
Fairbanks	--	--	--	--
Juneau	45	+ 2	1.8	0
Kodiak	43	+ 1	3.3	+ 1.8
Nome	27	- 3	0	- .4
ARIZ.Flagstaff	53	+ 4	T	- .3
Phoenix	83	+ 9	0	- .1
Tucson	79	+ 7	0	- .1
Winslow	61	+ 2	T	- .2
Yuma	86	+ 8	0	- .1
ARK.Fort Smith	64	- 1	.1	- .7
Little Rock	63	- 1	.6	0
CALIF.Bakersfield	80	+12	0	- .1
Eureka	60	+ 5	0	- .6
Fresno	75	+ 9	0	- .1
Los Angeles	73	+ 4	0	0
Red Bluff	77	+10	0	- .2
San Diego	72	+ 5	0	- .1
San Francisco	66	+ 4	T	- .2
Stockton	72	+ 7	0	- .1
COLO.Denver	56	+ 2	0	- .3
Grand Junction	58	+ 1	0	- .2
Pueblo	56	0	0	- .2
CONN.Bridgeport	58	0	.3	- .3
Hartford	53	- 1	.3	- .3
D.C.Washington	60	- 1	T	- .6
FLA.Apalachicola	68	- 4	1.6	+ .9
Daytona Beach	75	+ 1	3.6	+ 2.2
Ft. Myers	--	--	--	--
Jacksonville	69	- 3	1.2	+ .1
Key West	80	0	2.1	+ .7
Lakeland	76	+ 1	--	--
Miami	78	- 1	3.1	+ 1.1
Orlando	75	0	.2	- .8
Tallahassee	67	- 4	.6	- .1
Tampa	74	- 2	.4	- .2
W.Palm Beach	76	- 2	1.0	- 1.2
GA.Atlanta	62	- 2	1.4	+ .8
Augusta	61	- 5	1.1	+ .6
Macon	63	- 4	.1	- .4
Savannah	67	- 4	.3	- .4
HAWAII.Hilo	75	0	.1	- 2.3
Honolulu	78	- 1	T	- .3
Kahului	79	+ 2	.2	0
Lihue	79	+ 1	.5	- .3
IDAHO.Boise	56	+ 2	0	- .1
Lewiston	56	+ 3	0	- .2
Pocatello	52	+ 2	0	- .1
ILL.Cairo	60	- 4	1.7	+ 1.1
Chicago	53	- 4	.2	- .4
Moline	52	- 4	.3	- .3
Peoria	53	- 4	.3	- .3
Rockford	50	- 5	.2	- .5
Springfield	55	- 4	.6	- .1
IND.Evansville	57	- 3	.5	- .1
Ft. Wayne	52	- 3	.4	- .2
Indianapolis	53	- 5	3.1	+ 2.5
South Bend	52	- 3	.8	+ .1
IOWA.Burlington	53	- 4	.3	- .4
Des Moines	54	- 3	.2	- .3
Dubuque	49	- 5	.9	+ .2
Sioux City	52	- 3	.4	0
KANS.Concordia	56	- 3	0	- .5
Dodge City	60	0	0	- .4
Goodland	55	0	0	- .2
Topeka	56	- 4	T	- .6
Wichita	60	- 2	0	- .6
KY.Lexington	54	- 6	1.3	+ .9
Louisville	57	- 3	1.0	+ .5
LA.Baton Rouge	67	- 3	T	- .6
Lake Charles	67	- 4	T	- .8
New Orleans	70	- 1	0	- .5
Shreveport	68	- 1	0	- .6
MAINE.Caribou	45	0	1.2	+ .5
Portland	51	+ 1	1.1	+ .4
MD.Baltimore	57	- 2	T	- .6
MASS.Boston	55	- 2	.9	+ .3
Chatham	54	--	1.2	--
MICH.Alpena	47	- 2	T	- .4
Detroit	52	- 3	.6	0
Flint	52	- 1	.1	- .4
Grand Rapids	48	- 6	.7	+ .1
Houghton Lake	44	- 5	1.5	+ 1.1
Lansing	50	- 3	.4	- .2
Marquette	46	- 5	.1	- .4
Muskegon	49	- 4	.7	+ .1
S. Ste. Marie	44	- 4	.8	+ .2
MINN.Duluth	44	- 4	.2	- .3
Internatl Falls	42	- 4	.3	- .1
Minneapolis	50	- 2	T	- .4
Rochester	44	- 8	T	- .4
St. Cloud	46	- 4	T	- .4
MISS.Jackson	63	- 4	.2	- .2
Meridian	62	- 4	T	- .5
MO.Columbia	57	- 3	.9	+ .1
Kansas City	57	- 4	T	- .8
St. Louis	55	- 6	1.7	+ 1.1
Springfield	59	- 2	1.8	+ 1.0
MONT.Billings	51	0	T	- .2
Glasgow	47	- 2	T	- .1
Great Falls	50	0	T	- .1
Havre	50	+ 1	.1	0
Helena	49	+ 2	0	- .1
Kalispell	44	0	T	- .3
Miles City	49	- 2	.3	+ .1
Missoula	47	+ 1	T	- .2
NEBR.Grand Island	53	- 3	0	- .3
Lincoln	54	- 3	.1	- .3
Norfolk	52	- 3	.2	- .1
N.Platte	49	- 4	0	- .2
Omaha	54	- 3	.2	- .2
Valentine	49	- 3	.1	- .1
NEV.Ely	52	+ 4	0	- 1
Las Vegas	77	+ 8	0	- .1
Reno	58	+ 6	0	- .1
Winnemucca	55	+ 5	0	- .1
N.H.Concord	47	- 4	.6	0
N.J.Atlantic City	55	- 3	.5	- .3
Trenton	58	- 1	.2	- .4
N.MEX.Albuquerque	62	+ 2	0	- .2
Roswell	65	+ 4	0	- .3
N.Y.Albany	53	0	.9	+ .3
Binghamton	50	- 2	1.3	+ .6
Buffalo	51	- 2	.9	+ .3
New York	58	- 1	.1	- .5
Rochester	50	- 4	1.3	+ .7
Syracuse	52	- 2	1.5	+ .8
N.C.Asheville	53	- 5	.1	- .7
Charlotte	59	- 4	T	- .6
Greensboro	56	- 5	T	- .7
Hatteras	62	- 4	.7	- .4
Raleigh	59	- 3	0	- .6
Wilmington	64	- 2	.1	- .7
N.DAK.Bismarck	46	- 3	T	- .2
Fargo	46	- 3	T	- .3
Williston	48	0	T	- .1
OHIO.Akron-Canton	51	- 4	1.2	+ .7
Cincinnati	53	- 6	3.8	+ 3.4
Cleveland	55	0	1.0	+ .4
Columbus	53	- 3	1.1	+ .7
Dayton	53	- 4	.3	+ .9
Toledo	51	- 4	.7	+ .2
Youngstown	52	- 2	1.8	+ 1.2
OKLA.Okla. City	67	+ 3	0	- .6
Tulsa	68	+ 3	0	- .8
OREG.Astoria	57	+ 3	.3	+ 1.1
Burns	54	+ 5	0	- .2
Medford	61	+ 5	T	- .4
Pendleton	54	0	0	- .2
Portland	58	+ 3	T	- .7
Salem	59	+ 5	T	- .8
PA.Allentown	56	0	.3	- .3
Erie	51	- 2	1.6	+ .9
Harrisburg	57	0	1.0	+ .4
Philadelphia	58	- 1	.1	- .5
Pittsburgh	50	- 5	1.4	+ .8
Scranton	54	0	1.4	+ .8
R.I. Providence	53	- 2	1.0	+ .3
S.C. Charleston	65	- 2	T	- .7
Columbia	63	- 3	.1	- .5
Greenville	59	- 4	T	- .7
S.D. Aberdeen	49	- 1	T	- .3
Huron	48	- 4	T	- .4
Rapid City	51	- 1	T	- .2
Sioux Falls	50	- 2	T	- .4
TENN.Chattanooga	59	- 3	.1	- .5
Knoxville	58	- 4	.4	- .3
Memphis	64	- 1	1.4	+ .8
Nashville	59	- 4	1.4	+ .9
TEX.Abilene	70	+ 2	0	- .6
Amarillo	62	+ 1	0	- .5
Austin	72	0	T	- .7
Beaumont	71	0	0	- .8
Brownsville	76	- 1	0	- .8
Corpus Christi	74	- 1	0	- .7
Del Rio	71	- 2	T	- .5
El Paso	66	0	0	- .2
Fort Worth	72	+ 3	0	- .6
Galveston	73	- 1	.3	- .3
Houston	69	- 3	0	- .9
Lubbock	65	+ 2	0	- .5
Midland	64	- 4	0	- .4
San Angelo	67	- 2	0	- .5
San Antonio	71	- 1	0	- .7
Victoria	72	- 2	0	- .9
Waco	73	+ 2	T	- .6
Wichita Falls	68	0	0	- .7
UTAH.Blanding	60	+ 6	0	- .4
Salt Lake City	58	+ 4	0	- .3
VT.Burlington	49	- 1	1.6	+ 1.0
VA.Lynchburg	55	- 4	T	- .6
Norfolk	60	- 3	T	- .7
Richmond	59	- 2	T	- .6
Roanoke	53	- 6	.7	- .1
WASH.Colville	--	--	--	--
Omak	48	- 1	0	- .2
Quillayute	53	+ 1	1.1	- 1.4
Seattle-Tacoma	57	+ 4	T	- .8
Spokane	52	+ 2	T	- .3
Walla Walla	57	+ 1	0	- .3
Yakima	53	+ 1	0	- .1
W.VA.Beckley	52	- 2	.4	- .2
Charleston	54	- 5	1.3	+ .7
Huntington	55	- 4	1.6	+ 1.2
Parkersburg	54	- 5	1.6	+ 1.1
WISC.Green Bay	47	- 4	.4	0
La Crosse	52	- 2	.2	- .3
Madison	47	- 5	.2	- .3
Milwaukee	49	- 4	.6	+ .2
WYO.Casper	49	- 1	T	- .2
Cheyenne	52	+ 2	T	- .2
Lander	51	+ 2	0	- .3
Sheridan	49	- 1	T	- .2
P.R.San Juan	83	+ 2	.3	- .9

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 ESCS State offices in cooperation with the National Weather Service.

ALABAMA: Temperatures 2° below normal. Frost some locations on 15th. Rainfall limited to widely scattered showers.

Fieldwork: 6.0 days suitable. Soil moisture very short to short. Cotton 49% harvested; 29% 1977, 15% average. Corn 80% harvested, 78% 1977, 57% average. Soybeans 25% harvested, 14% 1977, 16% average. Peanuts 88% combined, 52% 1977, 79% average. Wheat 40% seeded, 45% 1977, 46% average. Pastures reduced by lack of moisture.

ARIZONA: Sunny, unusually warm, dry. Scattered light showers north. Temperatures 2 to 9° above normal.

Cotton harvest full swing, gaining momentum central areas. Sorghum harvest active. Corn harvest good progress. Sugarbeets good condition. Alfalfa haying active; renovation, planting new fields tapering off. Field preparations small grains continue. Lettuce harvest southeast full swing; just underway central areas. Early lettuce Yuma area good progress. Seedbed preparation, planting, irrigation new plantings mixed vegetables active. Fall melon harvest accelerating. Lemon harvest increasing Yuma area; just underway central areas. Limited white grapefruit being picked. Range feed lower, mid-elevations rapidly diminishing. Stock tanks dry or drying. Supplemental feeding, water hauling required some desert ranges. Sheep mostly on winter pastures, lower valleys. Cattle, calves fair to good condition.

ARKANSAS: Temperature extremes: 91 and 30°. Highest normal 68°, lowest 60°. Highest mean 69°, lowest 58°. Most precipitation 2.63 in.

Cotton and soybean harvest underway, most rice harvested. Soil moisture short to adequate. Fieldwork: 5.4 days suitable. Late rain slowed crop harvest. Soybean harvest 12%, 18% last year and average. Cotton 41% harvested, 59% 1977, 38% average. Rice 93% harvested, 89% 1977, 87% average. Corn harvest 58%, 82% 1977, 89% average. Sorghum 91% harvested, 83% 1977 and average. Small grains seeding continued. Wheat 34% planted; oats 31% planted. Pasture conditions below average. Cattle gaining well.

CALIFORNIA: Temperatures well above normal. Maximum temperatures 100° or warmer sprinkled across southern half. No measurable precipitation.

Winter grain fields worked, prepared planting. Rice 40% harvested. Cotton harvest increased, defoliation underway. Harvest south 10% complete; just underway San Joaquin Valley. Apples, dates, olives, persimmons, pomegranates, walnuts harvested. Grape, almond harvests wound down. Desert grapefruit, lemons, few Valencias packed. Grape sugar levels very good. Reconditioning rain-damaged raisins continued. Navel oranges sizing well. Artichoke harvest light. Brussels sprouts about half harvested. Broccoli, cauliflower fairly heavy volume central coast. Celery cutting heavier central coast. Lettuce decreasing central coast; increasing San Joaquin Valley. Fall melon harvest increasing slowly in desert. Processing tomato harvest almost complete. Supplemental feeding increasing; most ranges need moisture to develop new grass. Sheep grazing melon, alfalfa fields. Calving active most areas.

COLORADO: Dry and unseasonably mild. Temperatures 2 to 3° above normal.

Winter wheat seeded 95%, 98% 1977, 96% average; emerged 80%, 88% 1977, 82% average. Corn mature 92%, 100% 1977, 98% average; harvested 26%, 55% 1977, 23% average. Sugarbeets harvested 13%, 12% 1977, 11% average. Sorghum ripe 87%, 91% 1977; harvested 15%, 20% 1977, 14% average. Summer potatoes harvested 99%, 98% 1977, 93% average. Fall potatoes harvested 90%, 99% 1977, 82% average. Ranges and pastures poor condition. Fieldwork: 6.5 days suitable.

FLORIDA: Scattered showers, thundershowers with considerable cloudiness spread from south late on 9th northward by late week. Clearing in Panhandle 14th extending southward 15th. Much cooler air with front. Temperatures 3 to 5° below normal north to near normal south. Rainfall 0.50 in. Panhandle, north, central except 1.00 to 3.00 in. along Atlantic Coast and south.

Soil moisture very short north, west, mostly adequate central, south. Soybean harvest increasing. Peanut harvest full swing. Haymaking continued. Pecan harvest beginning, prospects declining due to dry weather. Sugarcane good condition. Land preparation for planting small grains delayed because of dry conditions. Panhandle and northern Peninsula pastures continue deteriorating, very poor. Most central pastures poor to fair; good to excellent south. Cattle good condition. Citrus groves excellent, more rain needed; irrigation continued. Very little early fruit splitting, harvest increasing, grapefruit movement most active. Vegetable crops continue in very good condition. Harvest increasing; quality generally good. Plantings continue active some crops. Fieldwork very active weather permitting. Volume steady okra. Harvest gaining sweet corn, eggplant, pole beans, squash, cucumbers, radishes, Gadsden County tomatoes. Snap bean, tomato harvests increasing Pompano area. Light pepper harvest expected Pompano area. Strawberry transplanting underway. Spray programs continue active, irrigation steady.

GEORGIA: Dry; temperatures between 3 and 6° below normal. Scattered frost north and northeast early week. Extremes: 27 and 89°.

Soil moisture very short. Some relief from scattered weekend showers. Fieldwork: 6 days suitable. Corn poor to fair; 86% harvested, 81% last year, average 58%. Peanuts fair to good; 96% dug, 92% threshed, last year 82% dug, 71% threshed, average 92% dug, 85% threshed. Soybeans poor to fair; 14% combined, 6% last year and average. Cotton fair; 92% open, 38% harvested, last year 80% open, 27% harvested, average 19% harvested. Apples fair to good; 95% picked, 92% last year. Pecans mostly fair to good; 4% harvested, 7% last year, average 4%. Small grain seeding very slow. Wheat 14%, rye 16%, other small grains 16%. Last year wheat 29%, rye 37%, other small grains 35%. Pasture and hay crops poor to fair. Cattle fair to good, hogs fair to mostly good.

HAWAII: Weather favorable. Showers light; irrigation heavy some areas. Winds gusty Waianae area, Oahu; some crops bruised exposed areas.

Spraying frequent for insect and disease control. Vegetable supplies: Head cabbage heavy, chinese cabbage increasing, others light to moderate. Papaya supplies heavy. Pineapple harvesting slow. Sugar harvesting steady. Pastures generally good.

IDAHO: Temperatures 1 to 6° above normal. No measurable precipitation.

Favorable harvest weather continued. Potato digging 70% complete, last year 75%. Sugarbeet harvest underway. Dry beans 80% combined, virtually complete last year. Onions 90% harvested. Soil moisture short to adequate. Winter wheat seeding 80% complete with 45% emerged; stands good.

ILLINOIS: Temperatures 3 to 6° below normal, freezing temperatures north half. Showers statewide, heaviest east southeast, lightest northeast.

Corn 42% harvested, 1977 40%, average 36%. Soybeans 74% combined, 1977 51%, average 76%. Winter wheat 65% seeded, 1977 44%, average 63%. Grain sorghum harvest 35% complete. Plowing 1979 corn and soybean acreage 18% complete, 1977 6%, average 16%. Pasture conditions good to fair. Fieldwork: 5.0 days suitable. Soil moisture adequate.

INDIANA: Cool, wet. Temperatures on weekend dropped to low 30's and high 20's for first frost in most areas. Heavy rains in south central and southeast averaged 3.40 in., central averaged 1.70 in., and extreme north 0.80 in.

Fieldwork: 4 days suitable. Soil moisture adequate. Corn 25% harvested, 1977 30%, average 20%. Corn 100% mature. Soybeans 40% combined, 1977 30%, average 50%; 95% mature, 1977 95%, average 95%. Wheat 60% seeded, 1977 30%, average 60%. Wheat land 85% plowed, 1977 70%, average 85%. Spring cropland 15% plowed. Apples 70% picked, 1977 85%, average 75%.

IOWA: Cool with scattered showers and considerable cloudiness.

Fieldwork: 4.6 days favorable. Topsoil and subsoil moisture adequate. Corn very good condition; harvested 40%, 42% 1977, 27% normal. Stalk rot, ear droppage and lodging occurring in corn; losses currently light to moderate. Soybeans good condition; harvested 52%, 48% 1977, 57% normal; light harvest loss. Popcorn harvest 56%. Sorghum harvest 40%, 40% 1977, 35% normal. Pasture and livestock good condition. Feeder cattle purchase slowed; market movement increased.

KANSAS: Few light showers east first of week, otherwise dry weather prevailed. Temperatures 56° northwest to 63° southeast or 2° above normal northwest to 2° below normal north central.

Absence rainfall slowing germination and wheat growth. Wheat acreage seeded 90%, last year 90%, average 85%. Corn mature 95%, last year 100%, average 95%; harvested 60%, last year 65%, average 35%. Sorghum grain mature 85%, last year 85%, average 80%; harvested 45%, last year 35%, average 25%. Soybean harvest 35% complete, last year 15%, average 30%. Fieldwork: 6.5 days suitable. Soil moisture short except adequate northeast.

KENTUCKY: Temperatures above normal early week until dropping sharply during weekend. Temperatures more than 10° above normal on 12th; 15° below normal on 15th. Precipitation 1.00 in.

Fieldwork: 4.6 days favorable. Soil moisture adequate. Nearly all tobacco in barn with 22% showing houseburn. Severity of houseburn mostly light, but number of barns especially in Bluegrass with moderate severity. Early stripping begun. Leaves big, but thin; some concern over weight. Corn 51% harvested, 54% last year, 44% average. Soybeans 25% harvested, 30% mature but not harvested. Harvesting progress about comparable with last year and average. Freeze hurt a few late bean fields, but will hasten maturity of overall crop. Fall wheat 43% seeded. Rain very welcome for fall seeded crops.

LOUISIANA: Temperatures normal to 3° below. Extremes: 90 and 36°. Virtually no rain.

Fieldwork: 6.0 days suitable. Soil moisture short to adequate. Cotton 90% bolls open, 86% last year, 73% average; 43% harvested, 41% last year, 22% average. Soybeans 91% leaves turning, 82% last year; 31% harvested, 36% last year, 33% average. Corn 95% harvested, 92% last year. Sorghum 85% harvested, 91% last year, 77% average. Sweetpotatoes 80% dug, 71% last year, 74% average. Sugarcane 75% planted, 55% last year, harvest beginning. Oats and wheat 57% seeded, 22% last year, 53% average. Pecans fair. Hay and pasture fair to good. Cattle good.

MARYLAND & DELAWARE: Temperatures 3° below normal. Highs in upper 60's, lows in mid-40's. Precipitation very light, most stations reporting 0. Weekend partly sunny and cold.

Fieldwork: Nearly 7 days suitable. Topsoil and subsoil moisture short. Pastures supplying below average to average amounts of feed. Corn for grain 70% harvested, 79% 1977, 62% average. Soybeans over 95% shed leaves; 25% harvested, 18% 1977, 16% average. Weather good for apple harvest. Small grain seeding continued.

MICHIGAN: Temperatures 2 to 6° below normal. Scattered frosts. Lows in 20's with highs in mid-70's. Minimal precipitation.

Fieldwork: 5 days suitable. Soil moisture adequate to surplus. Grain corn 15% harvested, 10% last fall, 15% normal. Corn silage 85% chopped, 70% last year, 85% normal. Soybeans 15% harvested, 10% last year, 30% normal. Winter wheat 75% sown, 45% last fall, 80% normal. Dry beans 85% combined, 35% last fall, 85% normal. Potatoes 70% dug, 70% last year, 75% normal. Sugarbeets 15% dug, 5% last year, 15% normal. Grapes 75% picked, 100% last year, 90% normal. Vegetable harvests near complete.

MINNESOTA: Temperatures averaged 3° below normal. Extremes: 75 and 19°. Precipitation averaged 0.20 in. below normal, except near normal part of southeast and extreme northwest. Precipitation totals range from trace or none part of west to 0.50 in. southeast.

Harvesting advanced rapidly. Moisture supplies mostly adequate. Harvested: Corn 42%, 1977 47%, normal 43%; soybeans 77%, 1977 47%, normal 71%; sunflowers 71%, 1977 65%, normal 63%; flax 93%, 1977 88%, normal 95%; sugarbeets 90%, 1977 65%, normal 62%; potatoes 87%, 1977 87%, normal 87%.

MISSISSIPPI: Temperatures 3 to 5° subnormal. Extremes: 28 and 90°. Rainfall light, spotty.

Soil moisture short to very short. Fieldwork: 5.8 days suitable. Harvest progress excellent but need rain for winter grazing crops. Soybeans 95% shedding, 89% 1977; 62% mature, 60% 1977, 43% average; 28% harvested, 27% 1977, 20% average. Cotton 60% harvested, 52% 1977, 28% average. Corn 77% harvested, 77% 1977, 52% average. Rice 93% harvested, 82% 1977, 70% average. Sorghum 86% harvested, 82% 1977, 68% average. Hay crops 94% harvested, 91% 1977, 91% average. Winter wheat 50% planted, 44% 1977, 49% average. Soybeans fair to good condition; cotton and pastures fair. Pecans poor to fair condition.

MISSOURI: Temperatures 1 to 7° below normal. Rainfall less than 0.25 in. northwest, about 1.00 in. elsewhere. Scattered frosts.

Fieldwork: 3.8 days suitable. Soybeans 76% mature, last year 80%, normal 73%; 27% harvested, last year 19%, normal 32%. Corn 90% mature, last year and normal 100%; 39% harvested, last year 50%, normal 42%. Grain sorghum 84% mature, last year

96%, normal 87%; 46% harvested, last year 57%, normal 44%. Cotton 61% harvested, last year 44%, normal 27%. Winter wheat seedings 48% completed, last year 29%. Fall plowing for spring planted crops 17% completed, last year 12%. Condition of pastures mostly fair to good. Soil moisture mostly adequate.

MONTANA: Warm dry week. Light precipitation midweek followed by cool minimums in teens.

Soil moisture adequate. Fieldwork: 6.4 days suitable. Harvest progress: Potatoes 75%, normal 70%; dry beans 75%, normal 80%; sugarbeets 55%, normal 45%. Winter wheat planted 90%, normal 95%. Germination and condition good. Livestock moved from summer ranges 50%, normal 65%. Livestock in good condition.

NEBRASKA: Temperatures above normal first portion and below normal second part of week. Little or no precipitation.

Excellent harvesting progress. Lack of moisture limiting winter wheat development and fall pasture outlook. Corn harvested 30%, year ago 35%, normal 30%. Sorghum harvested 45%, year ago 45%, normal 45%. Soybeans harvested 60%, year ago 40%, normal 55%. Winter wheat condition fair to good. Fieldwork: 6.8 days suitable.

NEVADA: Warm, dry Indian summer weather continued. Temperatures 5 to 10° above normal. Extremes: 95 and 15°. No precipitation.

Optimum weather for fieldwork. Potato and alfalfa seed harvests full swing. Excellent progress winter grain seeding. Mild weather easy on livestock.

NEW ENGLAND: Fair weather prevailed; by 13th, cloudiness and rain began to spread across north and west with rainy weather in most areas on 14th. Rainfall 0.50 to 1.50 in. across most of north and east. Widespread frost or freezing temperatures early 9th thru much of interior. Temperatures moderated thereafter with 78° by 13th. Generally fair and colder weather returned 15th.

Harvest of late fall crops continued.

NEW JERSEY: Temperatures 2° below normal. Extremes: 22 and 82°. Rainfall averaged 0.25 in. north, 0.20 in. central and 0.21 in. south. Sunshine 66% of possible hours.

Fieldwork: 6 days suitable. Soil moisture short to adequate. Frost killed most tender crops. Harvest of hardy crops continues. Irish potato harvest well advanced. Sweetpotato digging over 50% complete. Apple and cranberry harvests active. Harvest of corn for silage continued. Harvest of corn for grain and soybeans general. Cover crop and grain seeding continued. Most areas need rain for recent seedlings.

NEW MEXICO: Another dry week. Temperatures near normal to 4° above normal.

Moisture adequate southeast, dry elsewhere. Cotton harvest extremely limited; no freezes in producing areas. Alfalfa fifth cutting about 75% complete. Grain sorghum harvest about 15% complete. Corn, red chile, and apple harvest in progress. Lettuce harvest beginning to pick up. Peanut harvest about 50% complete. Pecans opening. Livestock good; fall shipments in full swing. Several areas culling heavily along with fall marketing due to short winter pastures.

NEW YORK: Record cold early week temperatures kept averages below normal. Rain 14th and 15th, with light snow in Adirondacks. Precipitation mostly above normal.

Corn silage 80% harvested, 40% 1977. Grain corn 20% harvested, 10% 1977. Third cutting alfalfa 85% in. Onion and celery harvests about finished. Fresh market cabbage 60% harvested. Potato harvest 90% complete. Other vegetable crop harvests done. Lake Champlain apple harvest nearly done. Grape harvest continued with Concord and Catawba varieties.

NORTH CAROLINA: Temperatures 3° subnormal. Precipitation variable, less than 1.00 in.

Fieldwork: 6.1 days suitable. Soil moisture short. Soybeans, pasture and peanuts fair to good. Cotton fair to mostly good. Harvested: Peanuts dug 77%, 1977 70%, average 71%; peanuts threshed 55%, 1977 67%, average 58%; sweetpotatoes 67%, 1977 68%, average 60%; soybeans 6%, 1977 6%, average 5%; corn for grain 84%, 1977 94%, average 75%; apples 88%, 1977 78%, average 78%; sorghum 63%, 1977 70%, average 59%; cotton 21%, 1977 23%, average 18%. Burley tobacco harvest virtually complete. Wheat planted 20%, 1977 28%.

NORTH DAKOTA: Near normal temperatures. High temperatures in mid to upper 70's at beginning. Midweek showers and winds in excess of 50 mph many areas. High temperatures at weekend dropped into 40's and 50's. Extremes: 83 and 20°. Precipitation generally less than 0.10 in.

Warm, dry conditions first part of week allowed rapid progress of row crop harvest. Potato harvest over 95% complete, 95% 1977. Sunflower harvest over 50% complete, 41% 1977. Soil moisture above normal but dropping due to little precipitation.

OHIO: Temperatures ranged from low 30's to low 70's. Mean temperatures 4° below normal. Precipitation general ranging from 0.50 in. northwest to almost 4.00 in. southwest.

Late week rains halted harvest activities. Pastures in good condition. Some lodging reported in corn. Rains increased soybean moisture content. Winter wheat stands look very good. Corn harvested 28%, 26% 1977, 22% average. Soybeans harvested 48%, 48% 1977, 52% average. Wheat planted 72%, 55% 1977, 68% average. Popcorn harvested 38%, 38% 1977, 35% average. Sugarbeets harvested 22%, 10% 1977, 15% average. Apples harvested 65%, 80% 1977. Fieldwork: 4 days favorable. Soil moisture adequate.

OKLAHOMA: Temperatures ranged from normal to 3° above normal. Precipitation occurred only in east ranging form 0.01 in. east central to 0.10 in. southeast. Northeast averaged 0.04 in.

Topsoil and subsoil moisture supplies short. Wheat seeding 79% complete, 84% 1977, 80% normal. About 37% is up to stand, but no wheat pasture yet. Crop in good to fair condition. Sorghum rated fair with 23% harvested, 14% 1977, and 8% normal. Cotton rated fair with 80% open bolls, 84% 1977, and 61% normal. Peanuts rated fair with 27% harvested, 21% 1977 and normal. Soybeans rated poor to fair with 90% mature, 86% 1977, and 63% normal. Hay supplies short. Pastures rated fair to poor; livestock fair to good. Fieldwork: 6.9 days suitable.

OREGON: Few showers along coast and northwest interior. Amounts less than 0.25 in. Temperatures 3 to 7° above normal. Extremes: High 80's, high 30's west; low 80's, high teens east.

Soil moisture adequate west, short to adequate east. Fall land preparation and grain seeding continued. Spring grain harvest continued at high elevations. Red clover seed harvest, hay making and corn silage harvests nearing completion. Pear harvest complete, apples almost done. Post-

harvest orchard work underway. Sprays going on berries. Filbert harvest continued, crop looks good. Vegetable harvest continued. Potato harvest underway; crop still looks good. Onion harvest continued. Ranges and pastures above average. Feed supplies ample and livestock in excellent shape.

PENNSYLVANIA: Cool and wet west. Temperatures 2 to 6° below normal. Warmer east, temperatures 2 to 3° above normal. Extremes: 81 and 28°. Precipitation on 13th and 14th ranged from 2.00 in. northwest to 0.10 in. southeast.

Fieldwork: 5 days suitable. Soil moisture adequate. Activities: Fall plowing; liming; fertilizing; filling silos; sowing barley, wheat; digging potatoes; making hay; combining soybeans; picking apples; harvesting grapes; picking corn. Soybeans 18% combined. Potatoes 85% dug, last year 82%. Grain corn 59% mature; 14% harvested, last year 16%. Silage corn 82% cut, last year 80%. Fall plowing 90%, same as 1977. Barley 95% sown, 1977 92%. Wheat 81% sown, last year 76%. Alfalfa third cut 87%, fourth cut 54%. Hay quality fair to good. Feed from pastures average.

PUERTO RICO: Island average rainfall 1.18 in. or 0.65 in. below normal. Temperatures averaged about 82° on coasts and 76° interior Extremes: 96 and 60°.

SOUTH CAROLINA: Temperatures dropped to mid-30's in mountains, foothills and Piedmont early week. High temperatures mostly in upper 60's, low 70's early in week; by midweek highs reached low 80's, cooling trend again 14th. Rainfall only 0.10 in. or less.

Soil moisture short to very short. Fieldwork: 6 days available. Corn 94% harvested, 95% year ago, 84% average. Cotton nearly defoliated; 55% picked, 40% last year, 24% average. Soybeans maturing rapidly in dry weather; 15% mature, 18% last year; 3% harvested, 2% last year. Apples 98% harvested, 97% last year. Pecans fair, harvest beginning. Pastures fair, deteriorating due to dry stresses. Livestock good condition. Fall vegetables condition fair to good. Cucumber harvest near peak; some growers irrigating. Snap beans, squash, other vegetable harvests continuing.

SOUTH DAKOTA: Warm early week but readings dipped latter week. Extremes: 18 and 87°. Precipitation scattered and light, mostly in south last half of week.

Topsoil moisture adequate east, short elsewhere. Fieldwork: 5.9 days suitable. Corn for grain 32% harvested, 1977 22%, normal 40%. Grain sorghum 39% harvested, 1977 23%, normal 54%. Soybeans 64% harvested, 1977 36%, normal 62%. Sunflowers 27% harvested, 1977 23%.

TENNESSEE: Rain light with amounts averaging 0.50 in. Temperatures 3 to 4° below normal.

Fieldwork: 5.5 days suitable. Soil moisture short. Corn harvested 56%, 1977 49%, average 39%. Cotton open bolls 94%, 1977 92%, average 63%; harvested 54%, 1977 51%, average 23%. Soybeans mature 59%, 1977 58%, average 40%; harvested 18%, 1977 16%, average 10%. Burley tobacco stripped 27%, 1977 38%, average 23%. Fall plowing completed 70%, 1977 74%, average 73%. Wheat seeded 50%, 1977 54%, average 50%. Oats seeded 72%, 1977 78%, average 76%. Pastures poor. Supplemental feeding cattle.

TEXAS: Rainfall much below normal; no precipitation Panhandle, north central, central, other areas only traces. Temperatures below normal Panhandle, Gulf Coast, south central, and east. Normal temperatures occurred west, west central, northeast, north central.

Cotton harvest nearing completion Blacklands; just getting started High Plains; 24% harvested, 38% last year, average 26%. Some producers on High Plains defoliated and harvested few moisture stressed dryland cotton fields. Grain sorghum harvest full swing High and Low Plains; 78% harvested, 86% last year, 83% average. Most early dryland fields on High Plains ready for harvest. Corn harvest full swing High Plains, virtually complete elsewhere; statewide 87% harvested, 97% last year, 86% average. Lodging caused by corn borers, stalk rot and earlier winds continued to cause harvesting problems. Peanut harvest gaining momentum Cross-Timbers, Blacklands; getting underway on Low Plains. Harvest 43%, 53% last year, 69% average. Cross-Timbers peanut stands need additional moisture to aid development and harvest. Soybean harvest active High Plains, East; 18% harvested, 28% last year, average 16%. Second cutting rice progressing well; blackbirds problem some fields. Sunflower harvest active High Plains; 40% harvested, 71% 1977, 61% average. Wheat seeding at fast pace; 73% planted, 72% 1977, 80% average. Most early planted fields High Plains up to good stands and making rapid progress. Oats planted 75%, 63% 1977, 69% average. Wheat planted 73%, 72% 1977, 80% average. Flax planted 12%, 0% 1977, 1% average.

Lower Rio Grande Valley wet conditions delayed vegetable planting. Disease continued to plague honeydew and bell peppers. Early orange harvest active. Harvests of lettuce, carrots, bell peppers, cabbage, cucumbers active. Late potato digging continued. Pecan harvest continued central and south.

Most pasture and range land continued to green in response to recent rains. Forage supplies in Blacklands and East remained very limited due to dry conditions; supplemental feeding necessary. On High Plains stocker cattle brought in to graze small grain pasture as well as corn and milo stalks. Cattle and range conditions in south and west very good and continued to make progress.

UTAH: Few isolated light showers southwest. Accumulated amounts generally light. Temperatures generally up to 10° above normal.

Soil moisture deficit on crop and range land quite critical south and east. Winter wheat 82% seeded. Corn silage harvest 90% complete, dry onions 72%, potatoes 72%, sugarbeets 15%, and apples 73% complete. Livestock movement from summer range roughly 70% complete.

VIRGINIA: Temperatures above normal; end of week cooler. Readings below normal for period. Extremes: 19 and 84°. Rainfall very light occurring mainly southwest, averaging less than 0.10 in.

Topsoil moisture short to adequate. Fieldwork: 5.9 days suitable. Pastures fair. Harvest progress: Corn 59%, 71% 1977, 50% average; soybeans 5%, 3% 1977, 6% average; peanuts dug 80%, 48% 1977, 63% average; peanuts combined 53%, 28% 1977, 39% average; apples 71%, 69% 1977, 71% average. Seeding progress: Wheat 19%, 24% 1977, 30% average; barley 42%, 56% 1977, 52% average; winter oats 50%, 56% 1977, 54% average. Frost damage to tobacco, peanuts, soybeans minimal. Other activities: Sweetpotato digging on Eastern Shore, flue-cured tobacco marketing.

WASHINGTON: West: Temperatures ranged from 2 to 4° above normal. Precipitation averaged from 0.50 in. to 1.40 in. below normal.

Late vegetable harvest continued. Sweet corn and corn for silage show good quality. Other activities included digging potatoes, picking nuts, and seed beet harvests. Pastures excellent.

East: Temperatures from 3 to 4° above normal. Precipitation 0.20 to 0.40 in. below normal.

Apple picking continued showing good quality but as nights cooled water core problems spotted. Potato and sugarbeet digging continued. Grapes, sweet corn, beans also being harvested. No major frosts. Grain harvest complete. Fall seeding continued. Emerged wheat shows good stands but aphids present. Livestock off higher ranges.

WEST VIRGINIA: Temperatures below normal. Rainfall near normal except northwest and southwest.

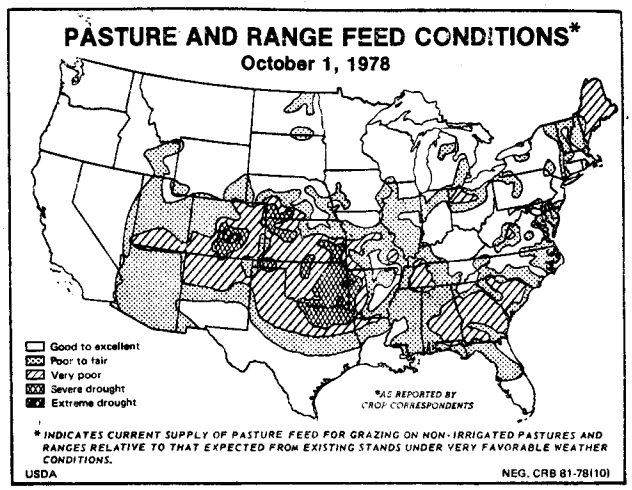
Fieldwork: 4.9 days suitable. Soil moisture short east; adequate to surplus elsewhere. Major activities: Harvesting corn, haying and seeding small grains. 3rd cutting hay 84%, 82% 1977. Corn development 4% dough, 52% mature, 44% harvested. Potatoes 93% dug, 88% 1977. Wheat planted 60%, 59% 1977. Barley sown 55%, 62% 1977. Crops and livestock good condition.

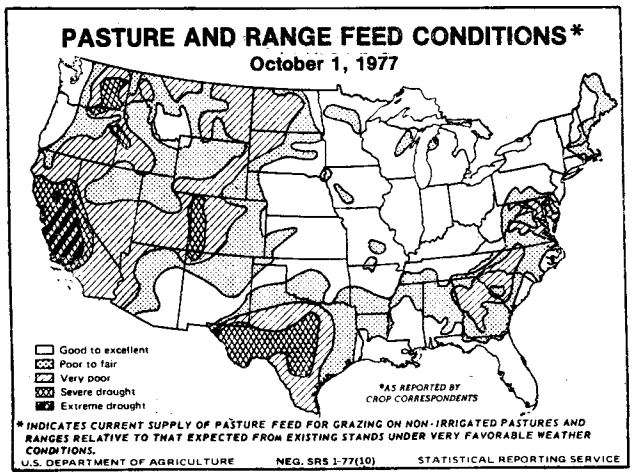
WISCONSIN: Temperatures 4° subnormal. Highs 60's until midweek, then declined to 50's and 40's. Lows 30's and 40's, except 20's after midweek. Extremes: 70 and 22°. Scattered showers but rainfall 0.50 in. or less. Light snow extreme north weekend.

Crop harvest made a little progress as fields became firmer. Fieldwork: 4 days suitable. Corn for grain 10% harvested, 1977 25%, normal 18%. Silo filling 70% done, 1977 85%, normal 95%. Silage quality not too good. Soybeans 6% harvested, 1977 15%, normal 20%. Fall plowing 13% done, 1977 17%, normal 25%. A little hay being cut but hard to dry. Fall pastures good. Potato harvest picking up. Beets, carrots, and cabbage being harvested. Harvesting of cranberries and apples continuing. Soil moisture adequate to surplus.

WYOMING: Precipitation well below normal with only four stations reporting measurable amounts. Temperatures averaged 1 to 4° above normal. Maximums mostly in 70's and low 80's. Minimums mostly in teens and mid-20's.

Topsoil moisture short. Acreage harvested: Corn silage 97%; corn for grain 26%; potatoes 80%; dry beans 95%; sugarbeets 38%. Winter wheat 84% emerged mostly fair to good condition. Fall, winter range condition fair to good. Winter feed supplies adequate.





HEATING DEGREE DAYS (BASE 65°) FOR WEEK ENDING OCT. 15, 1978.

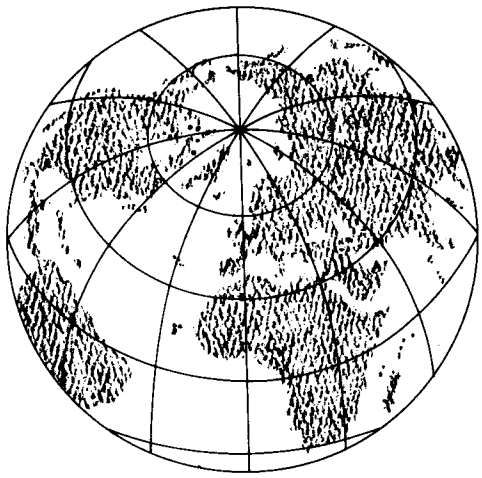
STATES AND STATIONS	WEEKLY TOTAL	WEEKLY DEPARTURE*	SEASONAL ACCUMULATION + TOTAL	SEASONAL ACCUMULATION + DEPARTURE*	SEASONAL ACCUMULATION + DEPARTURE FROM 1977-78
ALA. BIRMINGHAM	44	20	87	41	9
MOBILE	9	5	14	10	33
MONTGOMERY	25	10	36	13	8
ARIZ. FLAGSTAFF	87	28	467	133	109
PHOENIX	0	0	0	0	0
TUCSON	0	0	0	0	0
WINSLOW	26	17	68	25	10
YUMA	0	0	0	0	0
ARK. FORT SMITH	24	2	48	13	49
LITTLE ROCK	27	3	51	8	18
CALIF. BAKERSFIELD	0	7	0	8	0
EUREKA	34	37	843	75	66
FRESNO	0	12	6	14	6
LOS ANGELES	0	14	1	82	0
RED BLUFF	0	11	1	16	7
SAN DIEGO	0	7	33	4	33
SAN FRANCISCO	12	15	250	44	4
STOCKTON	0	11	58	40	56
COLO. DENVER	62	17	246	24	9
GRAND JUNCTION	47	12	187	21	55
PUEBLO	58	4	185	19	32
CONN. BRIDGEPORT	53	3	206	73	40
HARTFORD	80	3	413	150	107
DEL. WILMINGTON	55	7	164	48	26
D.C. WASHINGTON	44	10	81	8	4
FLA. APALACHICOLA	7	7	11	11	20
DAYTONA BEACH	0	0	0	0	12
FORT MYERS	0	0	0	0	2
JACKSONVILLE	10	10	18	18	15
KEY WEST	0	0	0	0	0
LAKELAND	1	1	1	1	6
MIAMI	0	0	0	0	0
ORLANDO	0	0	0	0	3
TALLAHASSEE	14	13	25	24	16
TAMPA	0	0	0	0	11
WEST PALM BEACH	0	0	0	0	0
GA. ATLANTA	34	11	61	14	31
AUGUSTA	28	11	48	21	17
MACON	25	13	40	20	14
SAVANNAH	13	5	23	11	23
IDAHO. BOISE	61	19	323	33	41
LEWISTON	64	17	281	10	113
POCATELLO	84	20	469	56	8
ILL. CAIRO	48	23	104	52	17
CHICAGO	84	26	230	60	29
MOLINE	88	24	238	30	40
PEORIA	83	22	221	33	52
ROCKFORD	102	26	276	9	86
SPRINGFIELD	71	20	188	41	28
IND. EVANSVILLE	62	20	144	36	15
FORT WAYNE	90	20	250	18	48
INDIANAPOLIS	85	29	210	40	1
SOUTH BEND	87	17	242	19	61
IOWA. BURLINGTON	81	23	213	29	58
DES MOINES	77	13	216	9	40
DUBUQUE	114	33	332	8	93
SIOUX CITY	91	21	268	14	46
KANS. CONCORDIA	58	9	156	6	40
DODGE CITY	40	2	114	1	20
GOODLAND	71	3	227	19	40
TOPEKA	61	14	161	23	15
WICHITA	45	10	101	7	17
KY. LEXINGTON	78	34	172	54	13
LOUISVILLE	60	17	125	13	40
LA. BATON ROUGE	11	4	19	8	18
LAKE CHARLES	11	6	13	8	14
NEW ORLEANS	3	4	5	2	20
SHREVEPORT	11	1	20	4	33
MAINE. CARIBOU	141	3	817	9	47
PORTLAND	96	7	503	21	48
MASS. BOSTON	72	13	328	133	100
MICH. ALPENA	121	8	524	150	154
DETROIT	92	18	284	24	83
FLINT	93	7	320	42	62
GRAND RAPIDS	115	35	394	94	12
HOUGHTON LAKE	148	38	642	25	21
LANSING	101	17	367	38	70
MARQUETTE	129	29	605	33	77
MUSKEGON	110	26	391	42	34
S. STE. MARIE	141	22	771	22	216
MINN. DULUTH	150	27	716	19	209
INTERNATL FALLS	157	23	815	5	181
MINNEAPOLIS	101	11	297	80	179
ROCHESTER	124	30	428	6	71
ST. CLOUD	127	22	450	39	151
MISS. JACKSON	30	16	51	29	33
MERIDIAN	38	20	59	29	3
MO. COLUMBIA	52	8	137	17	67
KANSAS CITY	55	14	143	29	68
ST. LOUIS	66	27	153	50	36
SPRINGFIELD	48	8	131	16	29
MONT. BILLINGS	96	1	488	52	61
GLASGOW	118	4	587	56	213
GREAT FALLS	100	5	559	30	184
HAVRE	103	10	498	46	154
HELENA	107	18	555	87	164
KALISPELL	146	0	824	25	73
MILES CITY	102	3	399	36	149
MISSOULA	125	9	736	59	19
NEBR. GRAND ISLAND	78	10	233	2	31
LINCOLN	71	10	214	20	64
NORFOLK	92	17	251	23	38
NORTH PLATTE	108	23	344	27	39
OMAHA	66	12	215	40	27
VALENTINE	106	15	355	10	88
NEV. ELY	88	33	638	50	94
LAS VEGAS	0	9	1	10	1
RENO	46	47	396	19	42
WINNEMUCCA	71	35	453	0	4
N.H. CONCORD	104	4	587	149	16
N.J. ATLANTIC CITY	75	26	259	135	90
TRENTON	52	4	159	36	26
N.MEX. ALBUQUERQUE	21	13	40	21	27
ROSWELL	19	14	74	1	31
N.Y. ALBANY	89	3	522	188	87
BINGHAMTON	101	8	478	66	21
BUFFALO	98	14	377	37	8
NEW YORK	49	8	184	82	16
ROCHESTER	76	3	309	4	79
SYRACUSE	93	14	382	88	25
N.C. ASHEVILLE	81	29	151	7	18
CHARLOTTE	38	12	68	13	36
GREENSBORO	55	17	108	17	35
HATTERAS	30	18	33	13	3
RALEIGH	43	9	76	4	58
WILMINGTON	18	6	31	11	32
N.DAK. BISMARCK	129	18	546	24	146
FARGO	124	15	479	14	135
WILLISTON	116	2	521	42	214
OHIO. AKRON-CANTON	95	23	259	1	63
CINCINNATI	85	36	190	57	45
CLEVELAND	67	2	199	57	78
COLUMBUS	83	17	210	5	44
DAYTON	87	31	231	58	28
TOLEDO	98	23	298	43	40
YOUNGSTOWN	95	20	324	31	5
OKLA. OKLAHOMA CITY	18	6	28	23	55
TULSA	19	4	39	9	48
OREG. ASTORIA	52	28	536	136	151
BURNS	104	8	648	105	1
MEDFORD	29	43	252	1	4
PENDLETON	71	4	357	104	116
PORTLAND	50	20	267	88	71
SALEM	42	33	244	113	199
PA. ALLENTOWN	66	1	236	20	9
ERIE	94	10	313	55	86
HARRISBURG	51	3	159	9	40
PHILADELPHIA	51	5	146	24	24
PITTSBURGH	103	29	304	38	48
SCRANTON	76	1	359	65	44
R.I. PROVIDENCE	84	14	364	130	88
S.C. CHARLESTON	18	7	32	14	11
COLUMBIA	23	4	39	8	52
GREENVILLE	46	22	73	22	15
S.DAK. ABERDEEN	103	1	372	62	149
HURON	119	26	415	47	36
RAPID CITY	97	4	357	44	148
SIOUX FALLS	104	14	362	2	78
TENN. CHATTANOOGA	50	18	86	23	31
KNOXVILLE	55	24	100	39	23
MEMPHIS	25	1	48	1	28
NASHVILLE	52	21	99	37	40
TEXAS. ABILENE	8	4	14	6	22
AMARILLO	29	6	80	0	13
AUSTIN	2	3	2	3	11
BEAUMONT	3	1	3	1	10
BROWNSVILLE	0	0	0	0	0
CORPUS CHRISTI	1	1	1	1	3
DEL RIO	0	5	8	3	2
EL PASO	11	0	23	7	12
FORT WORTH	4	3	4	5	40
GALVESTON	0	0	0	0	5
HOUSTON	4	3	5	4	19
LUBBOCK	18	9	56	34	2
MIDLAND	23	13	63	49	27
SAN ANGELO	14	4	19	4	13
SAN ANTONIO	7	4	7	4	9
VICTORIA	2	2	2	2	6
WACO	3	4	4	4	11
WICHITA FALLS	14	2	16	3	34
UTAH SALT LAKE CITY	46	32	239	17	5
VT. BURLINGTON	111	7	618	157	64
VA. LYNCHBURG	66	23	144	34	18
NORFOLK	44	20	63	12	0
RICHMOND	47	9	91	3	34
ROANOKE	79	37	176	68	3
WASH. QUILLAYUTE	81	13	719	102	185
SEATTLE-TACOMA	57	24	363	128	64
SPOKANE	89	19	568	97	110
WALLA WALLA	46	17	173	26	161
YAKIMA	83	9	394	15	107
W. VA. BECKLEY	85	8	263	27	66
CHARLESTON	79	28	172	34	28
HUNTINGTON	76	26	165	29	41
PARKERSBURG	66	15	124	14	63
WIS. GREEN BAY	126	29	457	2	48
LACROSSE	89	9	245	57	176
MADISON	121	28	413	9	129
MILWAUKEE	110	23	318	36	89
WYO. CASPER	107	0	515	48	26
CHEYENNE	91	16	512	24	11
LANDER	95	17	502	37	26
SHERIDAN	100	6	535	22	101

BASED ON 1941-70 NORMALS.

+ ACCUMULATION FROM JULY 1, 1978.

World Weather and Crop Update

October 9 - 15 and September Summary



USSR. Regions north and west of a line extending from the south end of the Ural Mountains to the eastern end of the Black Sea tallied above-normal accumulations for September. Only a small area in the New Lands received above-normal rainfall---the remainder received less-than-normal amounts. Last week, the central Volga had general coverage (15 to 25 mm); the Volga Vyask carried an average of 10 mm with some locally heavier amounts; and the lower Volga was dry. In East Russia, September precipitation was generally normal to above normal in northern regions and below normal in southern areas. Generally light rainfall dampened this area last week (5 to 10 mm, with some locally heavier amounts).

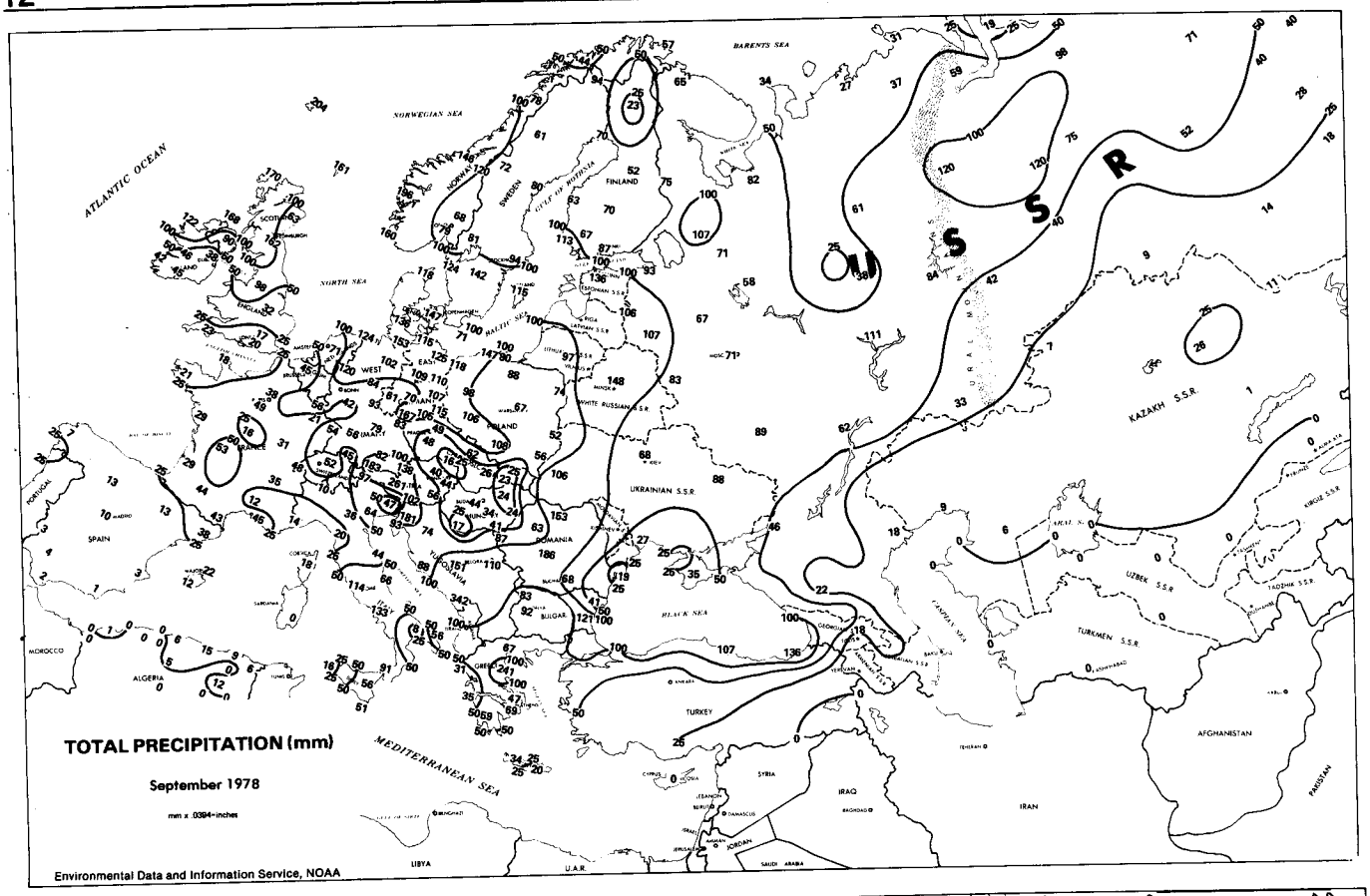
ASIA. Except for some areas along the coast, southeastern China continued to receive below-normal rainfall in September. Many sections there had less than 25% of normal precipitation. A band of above-normal rains extended northeastward from Szechwan province through Peking to Manchuria with drier areas along the northeastern coast and Mongolian border. Last week, rainfall was scattered with good general accumulations in southeastern portions (10 to 55 mm) and lower amounts in northern regions. There was rainfall through the week in the rice-growing regions of Szechwan (10 to 50 mm), but lighter accumulations in the eastern rice areas of Honan (3 to 5 mm). Monsoon rains tapered off in India last month, but a series of post-Monsoon disturbances brought many above-normal amounts to the Ganges Plain. Central Peninsula regions, too, gathered above-normal precipitation but the extreme southern tip had less-than-average amounts. India's Ganges Plain was mostly dry during the week with only widely scattered light showers (under 10 mm) in eastern regions. Rainfall in the southern half of the peninsula ranged from 10 to 50 mm for the week.

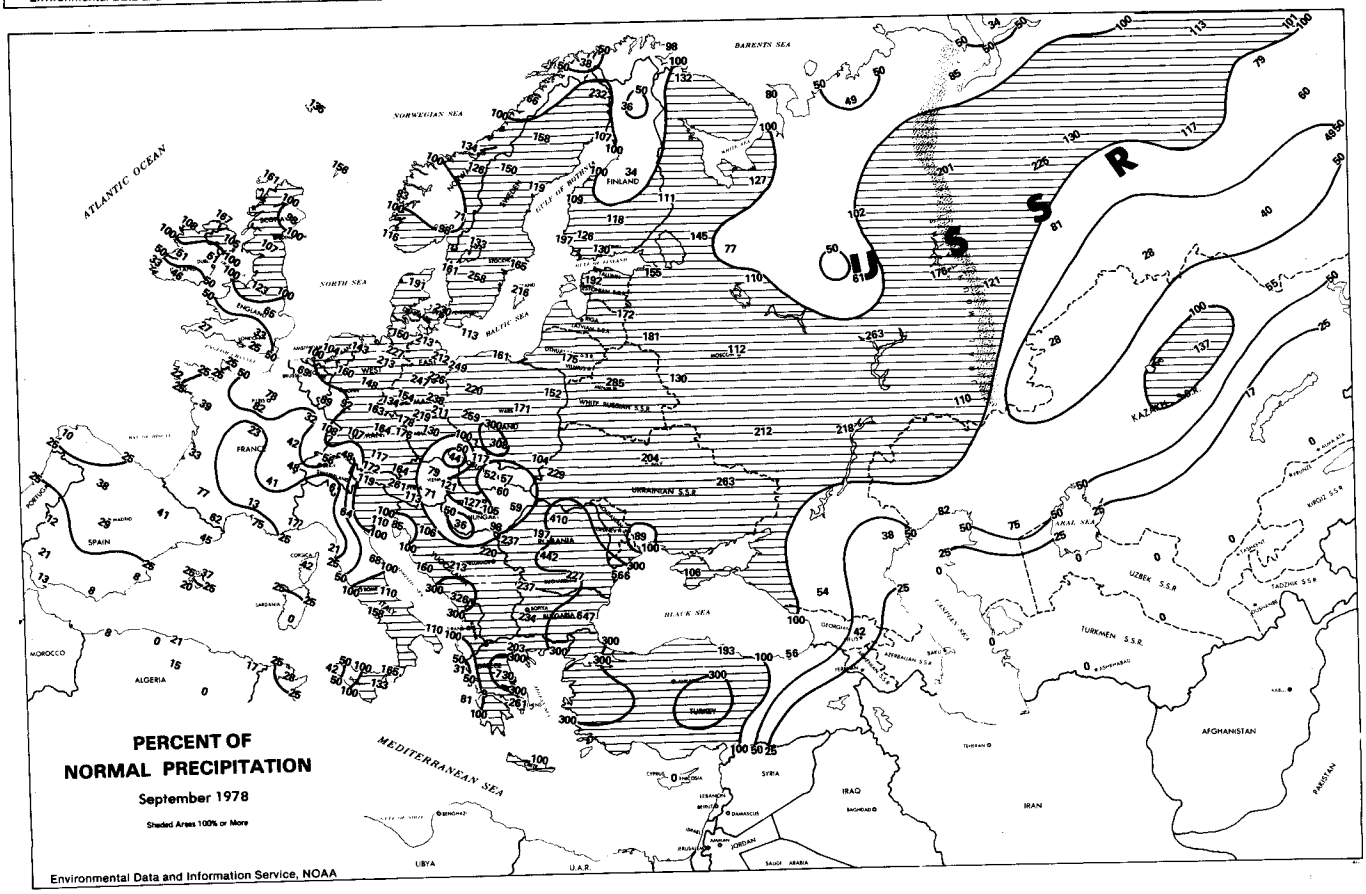
AUSTRALIA. Except for the northwest portion of western Australia, the continent received above-normal rainfall for September. Temperatures were normal to slightly above in Victoria and Northern Queensland but generally below normal elsewhere. Last week Queensland was dry except for showers along the coast (20 to 25 mm). Other provinces also were dry or received only light rains.

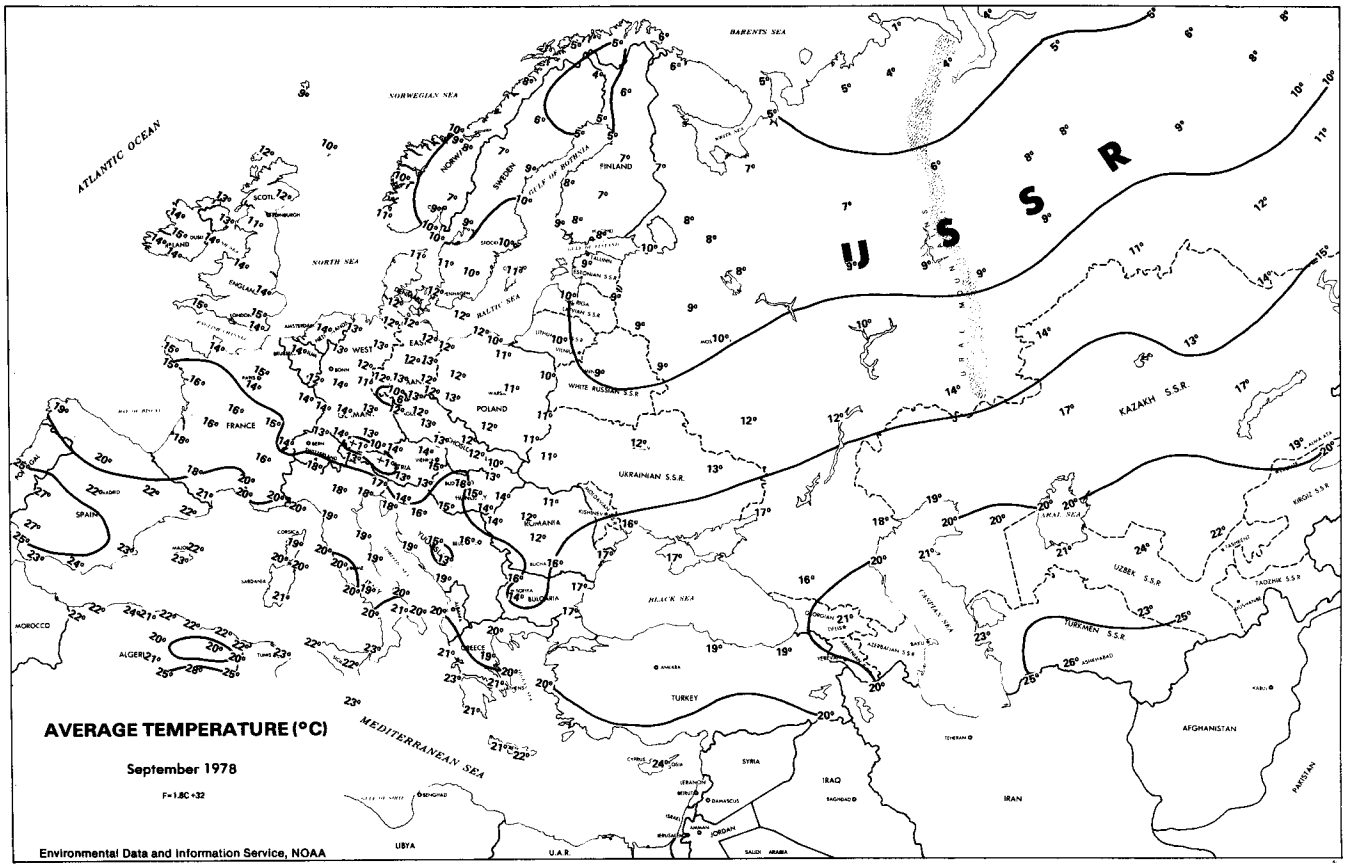
AFRICA. For the most part, rainfall along the Guinea Coast remained below September norms with some exceptions in isolated coastal areas of Sierra Leone, Ghana, and Togo. Much of South Africa, including the Maize Triangle, received above-normal rainfall where planting operations will begin soon. First autumn showers, heaviest along the coast (5 to 20 mm), fell in Morocco last week. Senegal accumulated 10 to 40 mm of rain with some isolated amounts in the South exceeding 100 mm. Ivory Coast had 20 to 50 mm of rain in the South with smaller amounts in the North (under 15 mm). In main southern growing regions of the continent, only light rains (5 to 10 mm) fell with some locally heavier amounts.

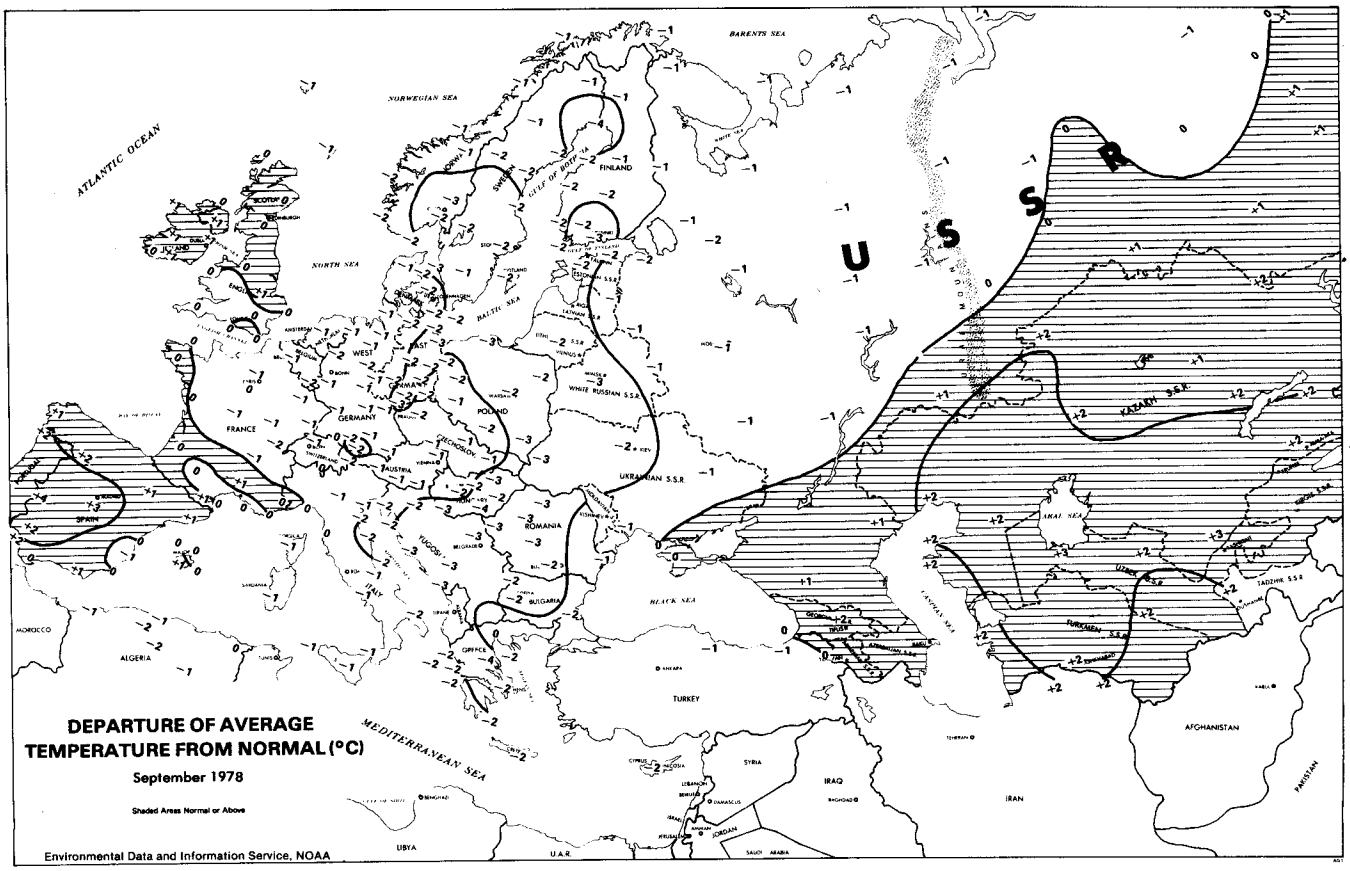
EUROPE. September rainfall stayed below normal in the southwestern parts of Europe including all of Spain, France, Switzerland, Belgium, southern United Kingdom, and northern Italy. The rest of Europe was above normal except for a pocket of lower amounts in portions of Czechoslovakia, Hungary, and Austria. Generally fair weather held over eastern Europe last week with only light showers throughout. The UK received under 10 mm in the North with some isolated heavier reports (10 to 25 mm); rainfall was lighter in the South. France received a trace to under 4 mm for the week, although Spain experienced a needed general coverage (10 to 35 mm). West and East Germany scored only light amounts of rainfall (under 5 mm) and Italy was dry for the week. Black Sea regions of Turkey notched a trace to 10 mm with skies fair elsewhere. Only light sprinkles moistened Greece (under 10 mm).

AMERICAS. Northeast of Sao Paulo, generally dry weather prevailed for the month except in the extreme northeastern areas near the coast. Southern Brazil, too, was dry in September south of Parana, but had near-normal to slightly-above-normal rainfall north of Parana in Mato Grosso. Temperatures during the month generally remained within a degree of normal. Last week, scattered light rain dampened the northern cocoa regions (5 mm) with more substantial rainfall in coffee areas around Sao Paulo (10 to 50 mm). Across the southern plateau, needed rain fell at the beginning and end of the period (10 to 50 mm). Argentina received good rainfall through September with highest amounts around Cordoba and areas east of the Andes extending generally to the Atlantic Coast. Temperatures ranged slightly above normal south of Buenos Aires and from slightly below to normal in regions north. There were showers in northern provinces last week totaling 10 to 50 mm. Areas around Cordoba registered the heaviest amounts (25 to 60 mm). Northern portions of Manitoba received from 10 to 20 mm of rain and snow showers last week with lighter amounts in the South (under 10 mm). Saskatchewan had light rain for the period (under 5 mm) while Alberta stayed generally fair with only sprinkles (under 3 mm).


TOTAL PRECIPITATION (mm)
September 1978
mm x .0394=inches
Environmental Data and Information Service, NOAA
ATLANTIC OCEAN
NORWEGIAN SEA
BARENTS SEA
NORTH SEA
BALTIC SEA
GULF OF BOTHNIA
FINLAND
SWEDEN
NORWAY
SCOTLAND
ENGLAND
WEST
EAST
IRELAND
FRANCE
SPAIN
PORTUGAL
MOROCCO
ALGERIA
LIBYA
U.A.R.
MEDITERRANEAN SEA
BLACK SEA
UKRAINIAN S.S.R.
WHITE RUSSIAN S.S.R.
ROMANIA
BULGAR
TURKEY
SYRIA
IRAQ
IRAN
AFGHANISTAN
PAKISTAN
KAZAKH S.S.R.
UZBEK S.S.R.
TURKMEN S.S.R.
U S S R


PERCENT OF
NORMAL PRECIPITATION
September 1978
Shaded Areas 100% or More
Environmental Data and Information Service, NOAA
ATLANTIC OCEAN
NORWEGIAN SEA
BARENTS SEA
NORTH SEA
BALTIC SEA
GULF OF BOTHNIA
FINLAND
SWEDEN
NORWAY
SCOTLAND
ENGLAND
WEST
EAST
IRELAND
FRANCE
SPAIN
PORTUGAL
MOROCCO
ALGERIA
LIBYA
U.A.R.
MEDITERRANEAN SEA
BLACK SEA
UKRAINIAN S.S.R.
WHITE RUSSIAN S.S.R.
ROMANIA
BULGARIA
TURKEY
SYRIA
IRAQ
IRAN
AFGHANISTAN
PAKISTAN
KAZAKH S.S.R.
UZBEK S.S.R.
TURKMEN S.S.R.
U S S R


AVERAGE TEMPERATURE (°C)
September 1978
F=1.8C+32
Environmental Data and Information Service, NOAA
ATLANTIC OCEAN
NORWEGIAN SEA
BARENTS SEA
NORTH SEA
BALTIC SEA
BLACK SEA
MEDITERRANEAN SEA
U S S R
FINLAND
SWEDEN
NORWAY
POLAND
FRANCE
SPAIN
UKRAINIAN S.S.R.
ROMANIA
BULGARIA
TURKEY
KAZAKH S.S.R.
UZBEK S.S.R.
TADZHIK S.S.R.
TURKMEN S.S.R.
KIRGIZ S.S.R.
AFGHANISTAN
IRAN
IRAQ
SYRIA
JORDAN
SAUDI ARABIA
U.A.R.
LIBYA
ALGERIA
MOROCCO


DEPARTURE OF AVERAGE TEMPERATURE FROM NORMAL (°C)
September 1978
Shaded Areas Normal or Above
Environmental Data and Information Service, NOAA
ATLANTIC OCEAN
NORWEGIAN SEA
BARENTS SEA
NORTH SEA
BALTIC SEA
BLACK SEA
MEDITERRANEAN SEA
U S S R
FINLAND
SWEDEN
NORWAY
GERMANY
POLAND
FRANCE
SPAIN
UKRAINIAN S.S.R.
ROMANIA
BULGARIA
TURKEY
KAZAKH S.S.R.
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IRAN
IRAQ
SYRIA
JORDAN
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LIBYA
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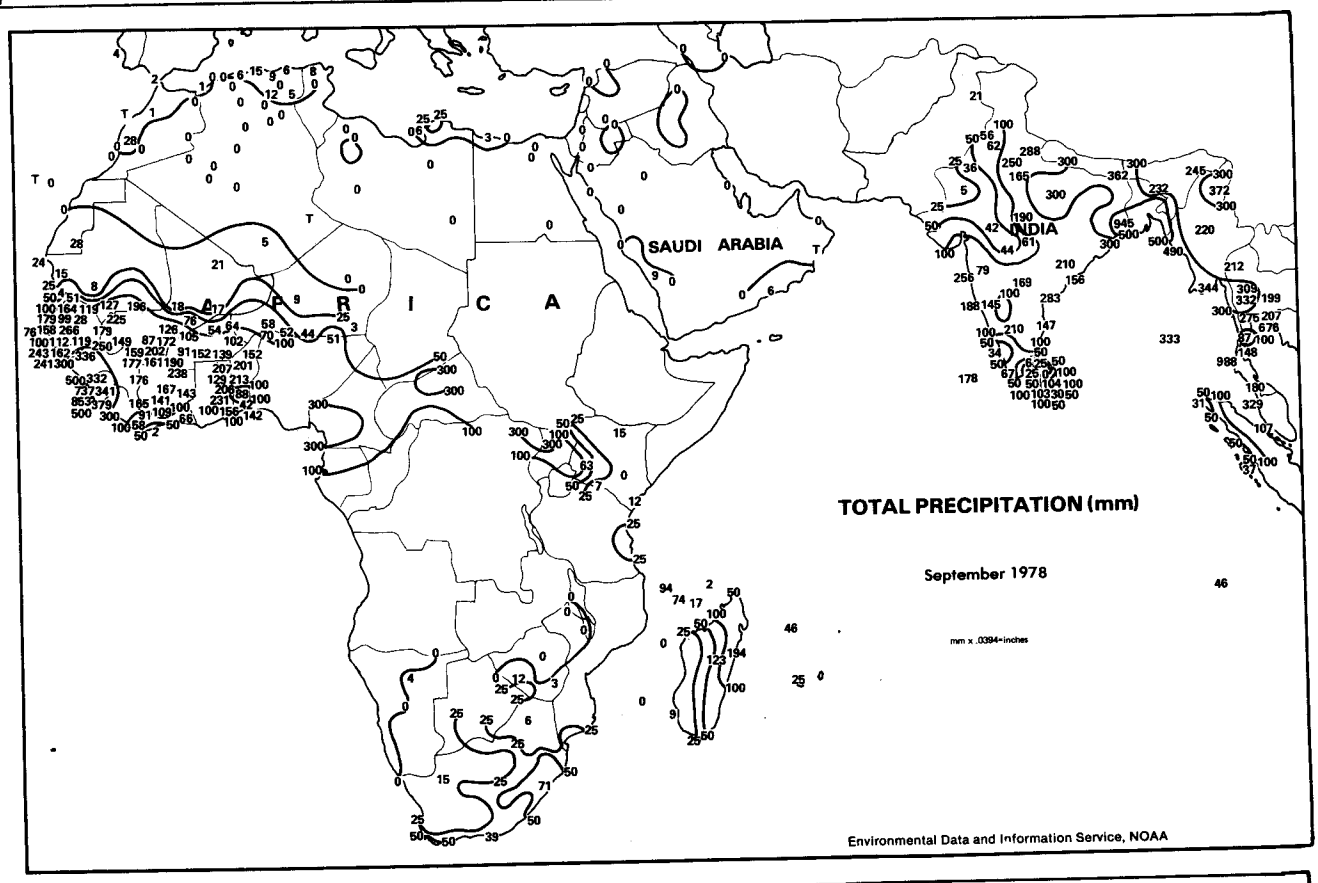
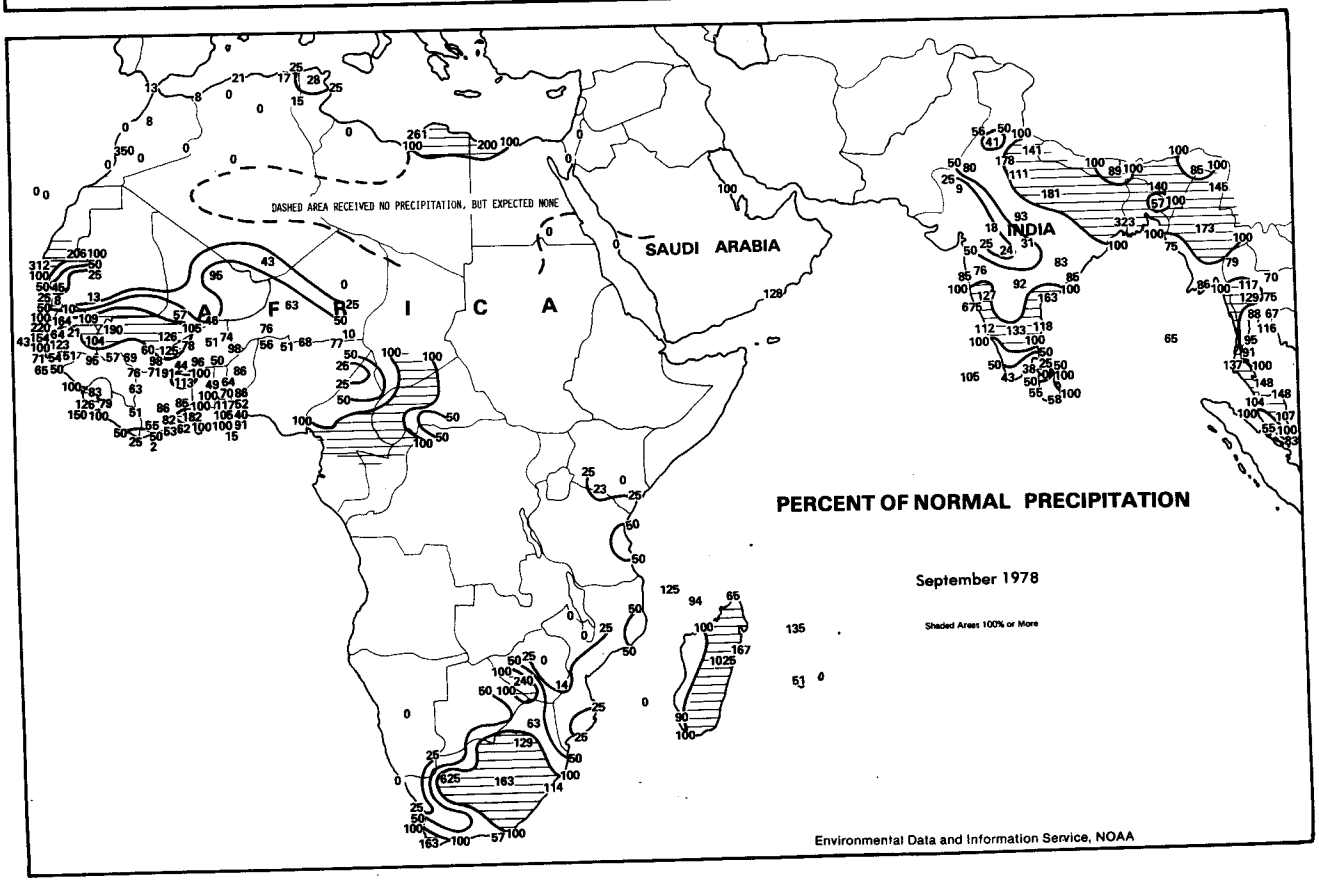
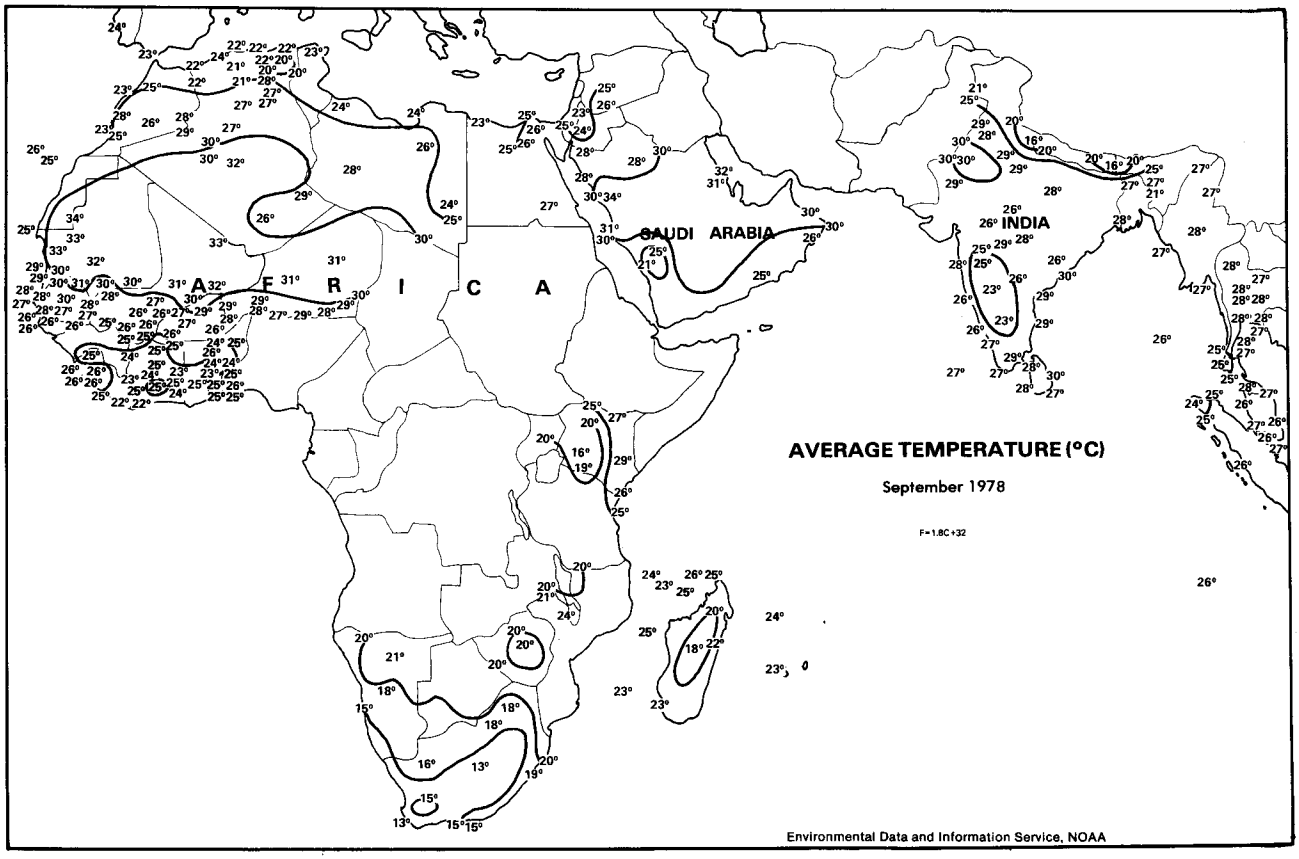
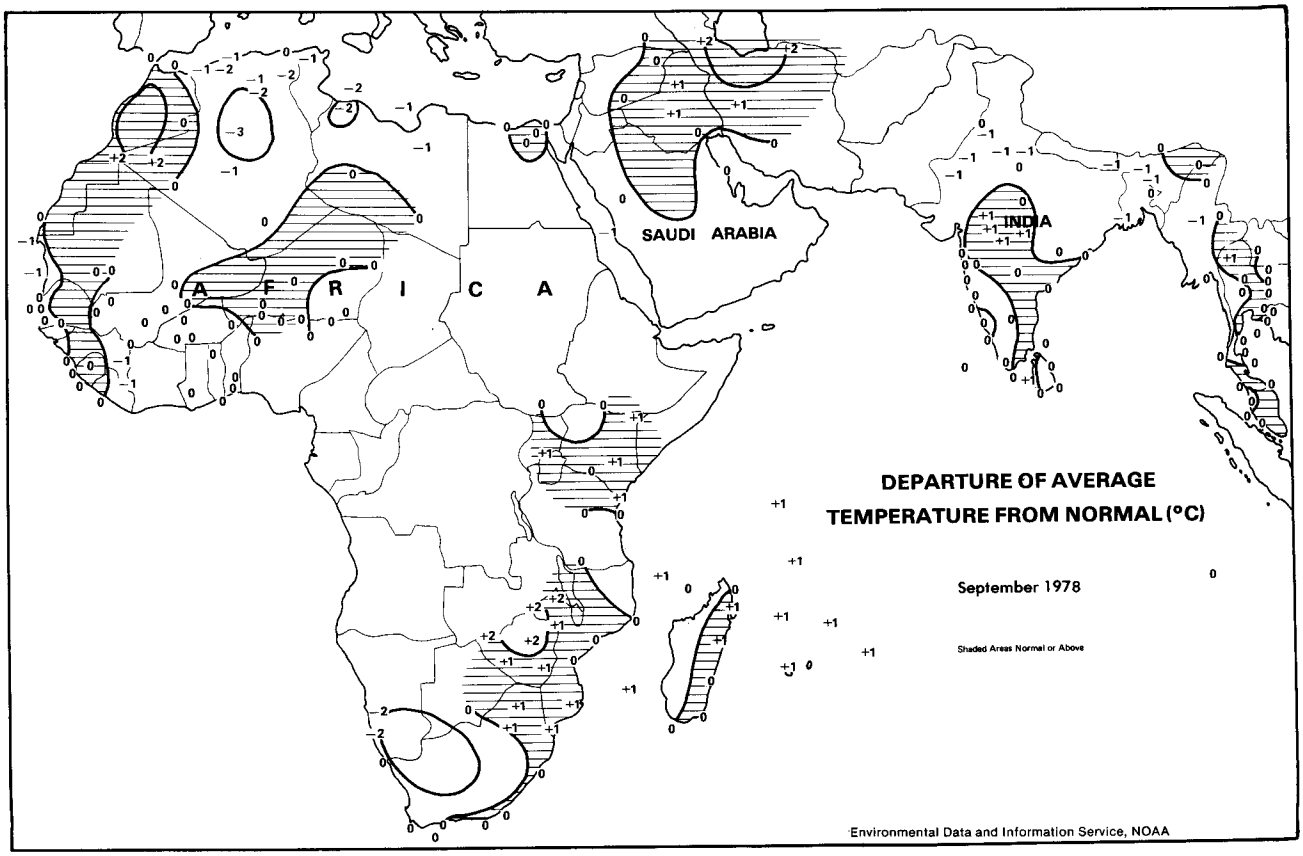
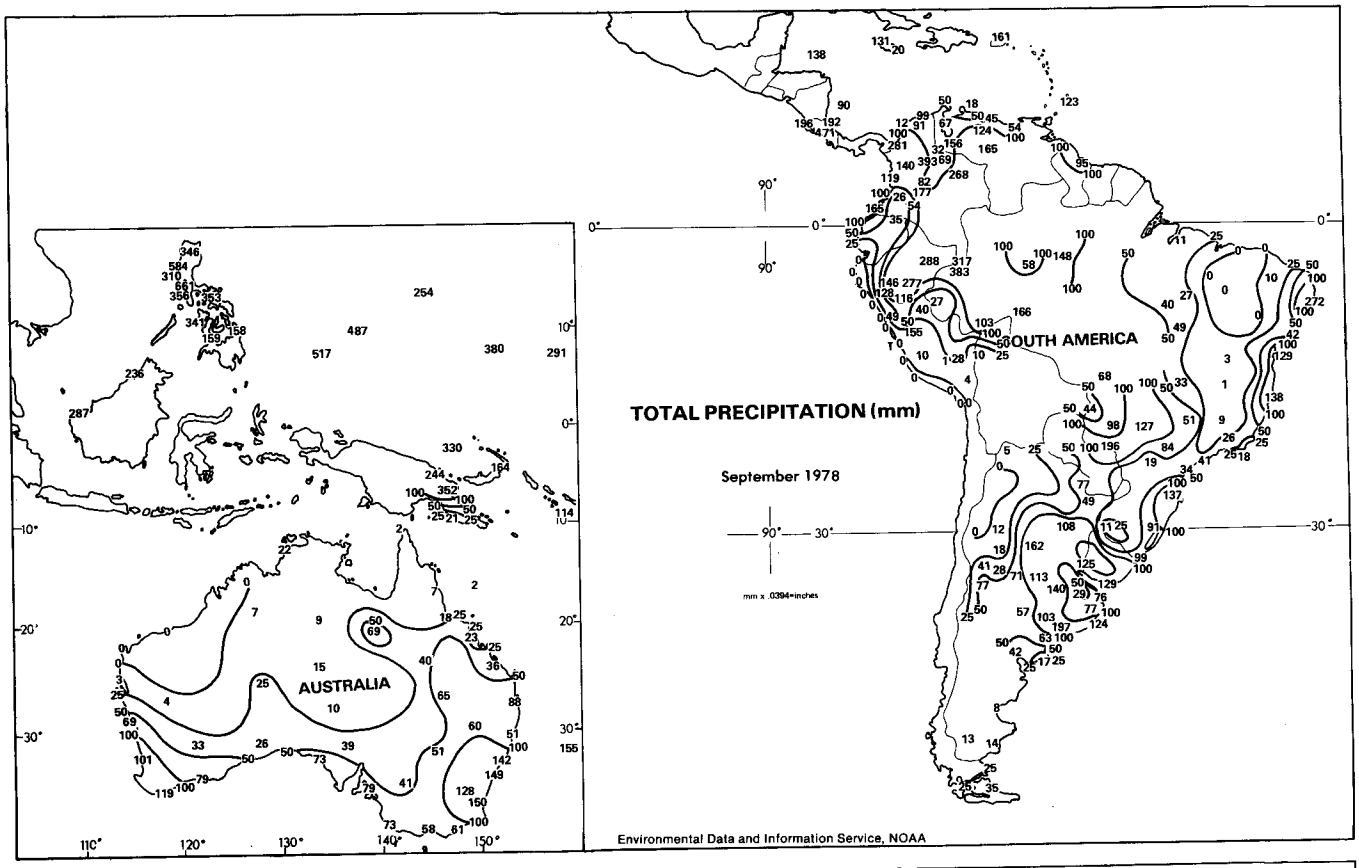
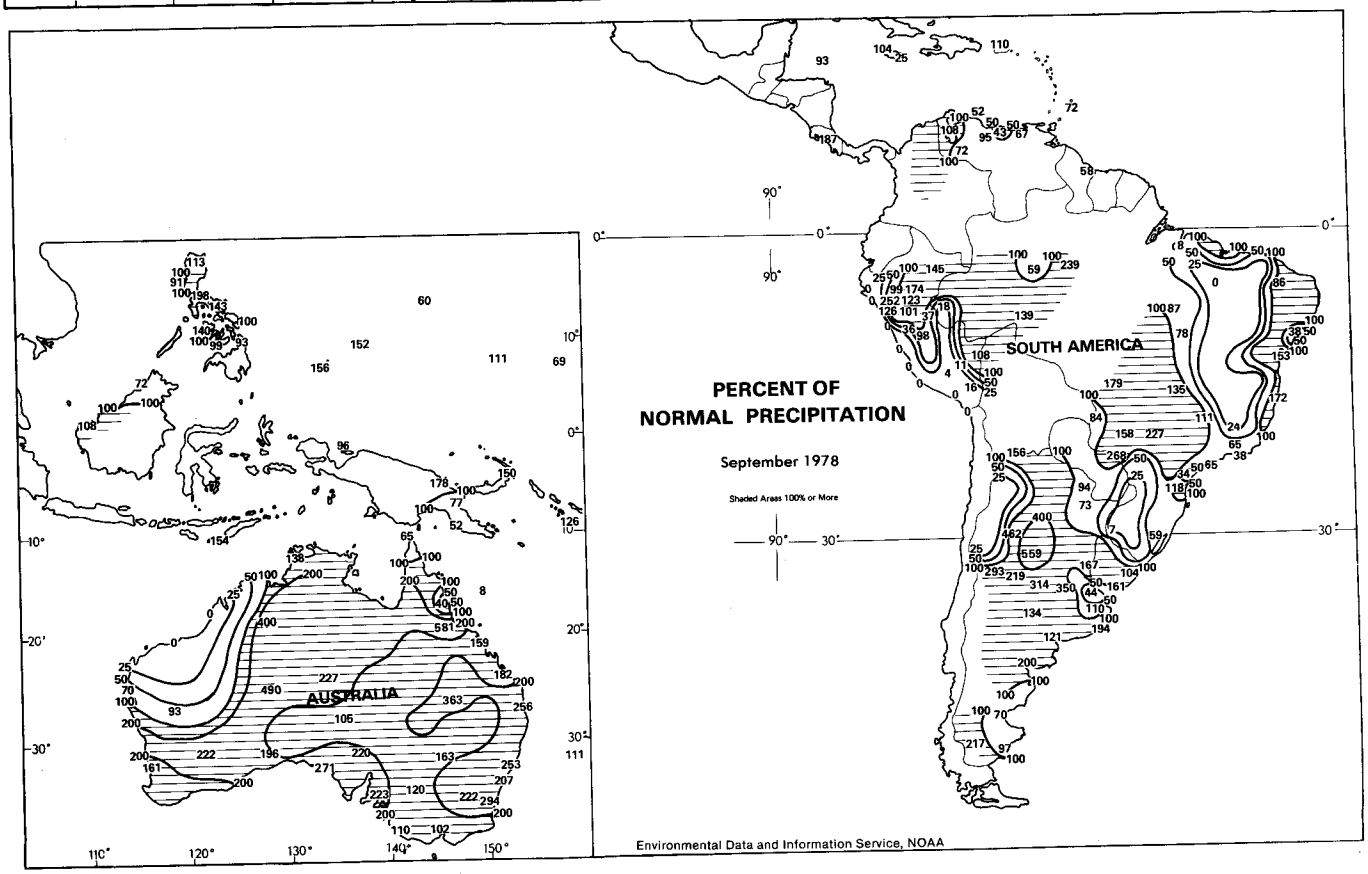

TOTAL PRECIPITATION (mm)
September 1978
mm x .0394=inches
SAUDI ARABIA
INDIA
A F R I C A
Environmental Data and Information Service, NOAA

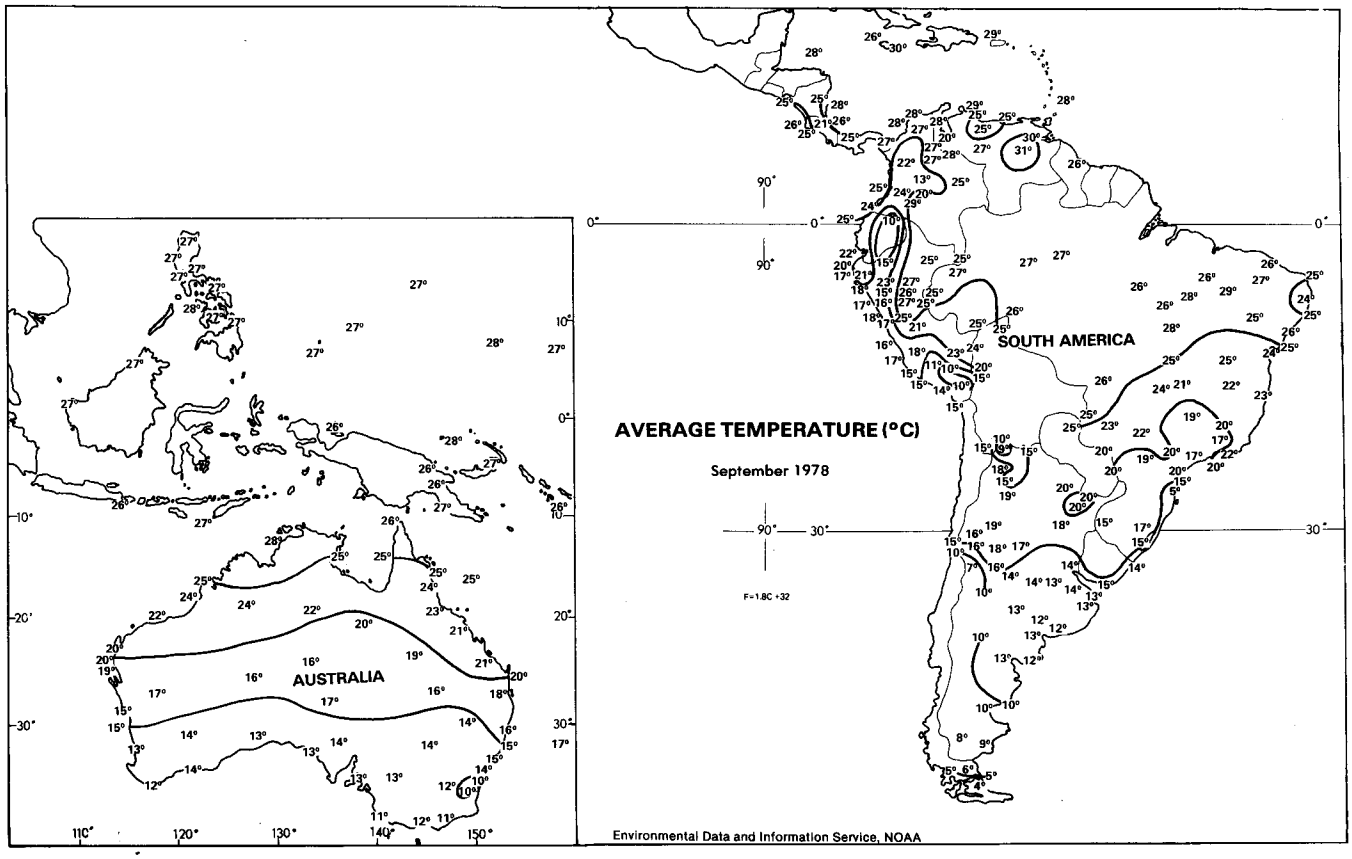

PERCENT OF NORMAL PRECIPITATION
September 1978
Shaded Areas 100% or More
DASHED AREA RECEIVED NO PRECIPITATION, BUT EXPECTED NONE
SAUDI ARABIA
INDIA
A F R I C A
Environmental Data and Information Service, NOAA

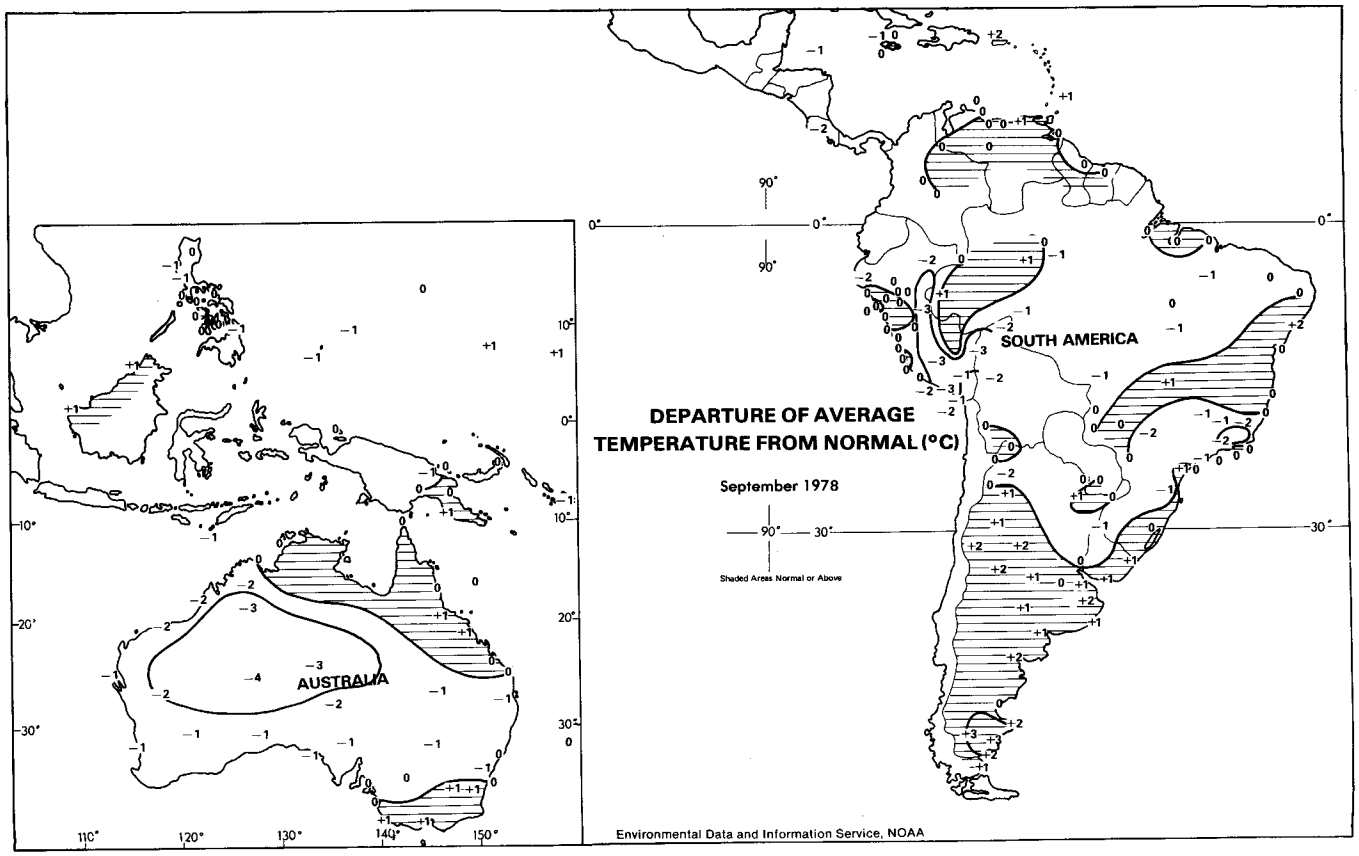

AVERAGE TEMPERATURE (°C)
September 1978
F=1.8C+32
SAUDI ARABIA
INDIA
A F R I C A
Environmental Data and Information Service, NOAA


DEPARTURE OF AVERAGE
TEMPERATURE FROM NORMAL (°C)
September 1978
Shaded Areas Normal or Above
SAUDI ARABIA
INDIA
A F R I C A
Environmental Data and Information Service, NOAA

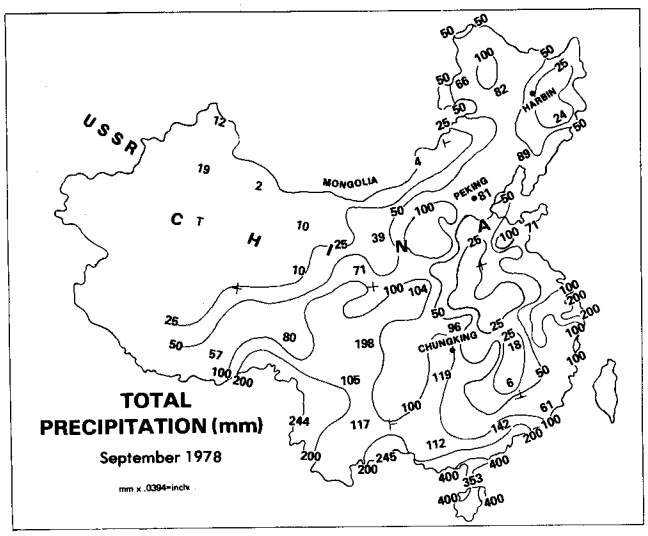

TOTAL PRECIPITATION (mm)
September 1978
mm x .0394=inches
SOUTH AMERICA
AUSTRALIA
Environmental Data and Information Service, NOAA

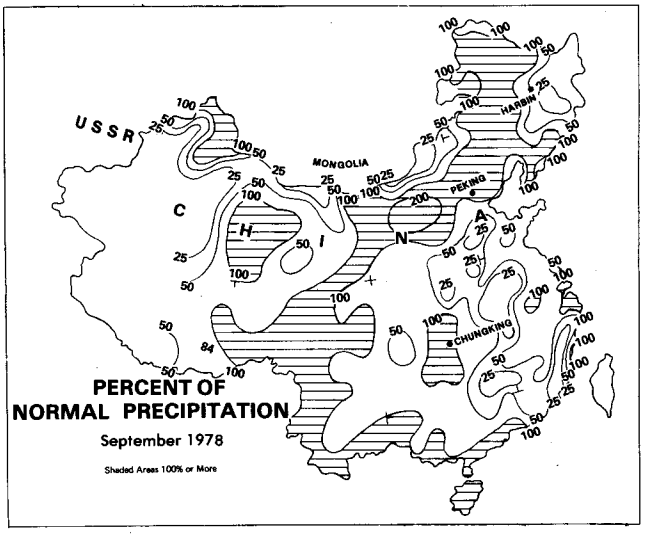

PERCENT OF
NORMAL PRECIPITATION
September 1978
Shaded Areas 100% or More
SOUTH AMERICA
AUSTRALIA
Environmental Data and Information Service, NOAA


AVERAGE TEMPERATURE (°C)
September 1978
F=1.8C +32
SOUTH AMERICA
AUSTRALIA
Environmental Data and Information Service, NOAA

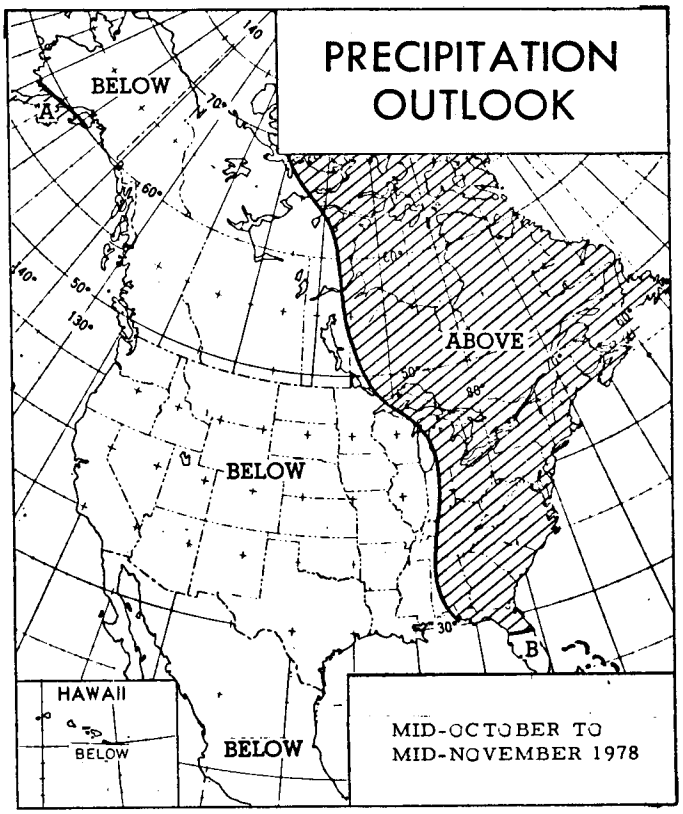

DEPARTURE OF AVERAGE TEMPERATURE FROM NORMAL (°C)
September 1978
Shaded Areas Normal or Above
SOUTH AMERICA
AUSTRALIA
Environmental Data and Information Service, NOAA

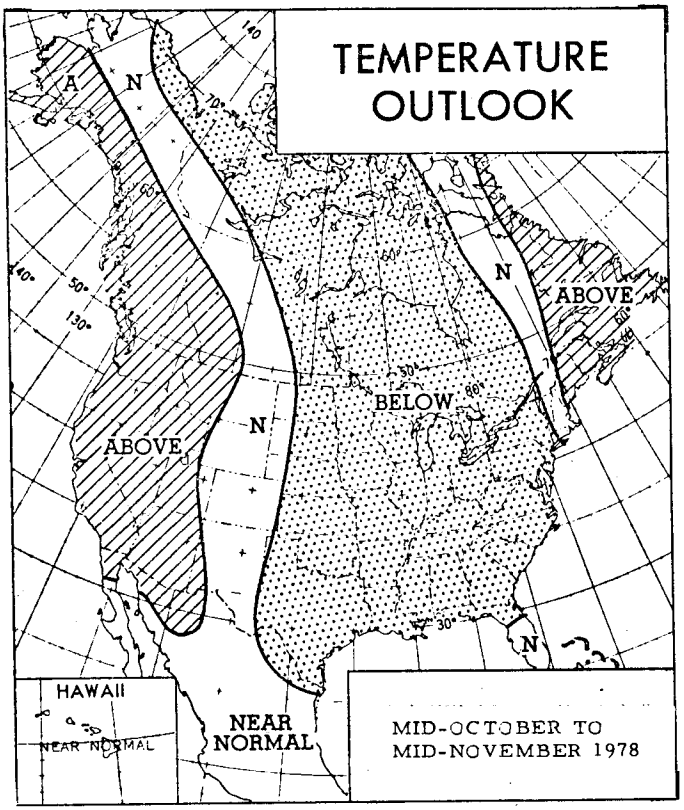
China Precipitation

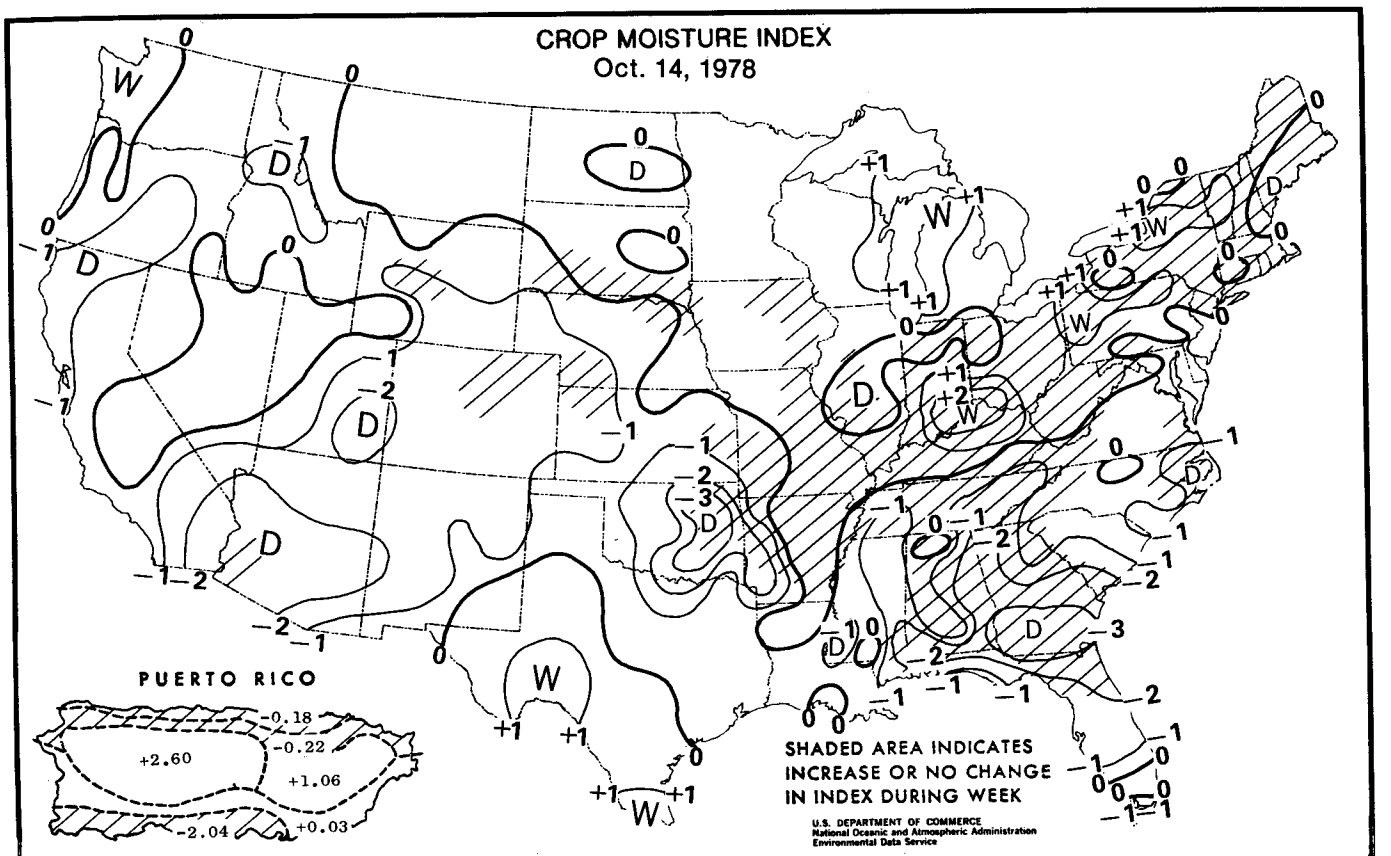




Average Monthly Weather Outlook







The Crop Moisture Index measures the degree to which moisture requirements of growing crops were met during the previous week. The index is computed from average weekly values of temperature and precipitation. These values are used to calculate the potential moisture demand. Taking into account the previous soil moisture condition and current rainfall, the actual moisture loss is determined.

If the potential moisture demand, or potential evapotranspiration, exceeds available moisture supplies, actual evapotranspiration is reduced and the CMI gives a negative value. However, if moisture meets or exceeds demand the index is positive.

Shaded areas indicate the index was unchanged or increased from the previous week's value; soils dried in the unshaded areas. Centers of positive and negative areas are identified by W for wet and D for dry.

Local moisture conditions may vary because of differences in rainfall distribution or soil types. The type of agriculture and stage of crop development must be considered when assessing the impact of moisture conditions based on the Crop Moisture Index. Some general guidelines follow.

UNSHADED AREAS:	INDEX DECREASED
ABOVE 3.0	SOME DRYING BUT STILL EXCESSIVELY WET
2.0 to 3.0	MORE DRY WEATHER NEEDED, WORK DELAYED
1.0 to 2.0	FAVORABLE, EXCEPT STILL TOO WET IN SPOTS
0 to 1.0	FAVORABLE FOR NORMAL GROWTH AND FIELDWORK
0 to -1.0	TOPSOIL MOISTURE SHORT, GERMINATION SLOW
-1.0 to -2.0	ABNORMALLY DRY, PROSPECTS DETERIORATING
-2.0 to -3.0	TOO DRY, YIELD PROSPECTS REDUCED
-3.0 to -4.0	POTENTIAL YIELDS SEVERELY CUT BY DROUGHT
BELOW -4.0	EXTREMELY DRY, MOST CROPS RUINED

SHADED AREAS:	INDEX INCREASED OR DID NOT CHANGE
ABOVE 3.0	EXCESSIVELY WET, SOME FIELDS FLOODED
2.0 to 3.0	TOO WET, SOME STANDING WATER
1.0 to 2.0	PROSPECTS ABOVE NORMAL, SOME FIELDS TOO WET
0 to 1.0	MOISTURE ADEQUATE FOR PRESENT NEEDS
0 to -1.0	PROSPECTS IMPROVED BUT RAIN STILL NEEDED
-1.0 to -2.0	SOME IMPROVEMENT BUT STILL TOO DRY
-2.0 to -3.0	DROUGHT EASED BUT STILL SERIOUS
-3.0 to -4.0	DROUGHT CONTINUES, RAIN URGENTLY NEEDED
BELOW -4.0	NOT ENOUGH RAIN, STILL EXTREMELY DRY

Agricultural Weather Facility
USDA South Bldg., Room 1248
Washington, DC 20250

IMMEDIATE – U. S. Weather Report

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HARVESTING PROGRESS

PERCENT OF ACREAGE HARVESTED
AS OF OCTOBER 15

soybeans

	1978	1977	AVG.
ALA	26	14	16
ARK	12	18	18
GA	14	6	6
ILL	74	51	76
IND	40	30	50
IOWA	52	48	57
KANS	35	15	30
KY	25	25	25
LA	31	36	33
MICH	15	10	30
MINN	77	47	71
MISS	28	27	20
MO	27	19	32
NEBR	60	40	55
NC	6	6	5
OHIO	48	48	52
SC	3	2	NA
TENN	18	16	10
TEX	18	28	16
U.S.	40	34	42

THESE 19 STATES PRODUCED 96%
OF THE 1977 U.S. SOYBEAN CROP.

corn

	1978	1977	AVG.
GA	86	81	58
ILL	42	40	36
IND	25	30	20
IOWA	40	42	27
KANS	60	65	35
KY	51	54	44
MICH	15	10	15
MINN	42	47	43
MO	39	50	42
NEBR	30	35	30
NC	84	94	75
OHIO	28	26	22
PA	14	16	NA
S DAK	32	22	40
TEX	87	97	86
WISC	10	25	18
U.S.	38	41	32

THESE 16 STATES PRODUCED 94%
OF THE U.S. CORN CROP.

cotton

	1978	1977	AVG.
ALA	49	29	16
ARK	41	59	38
GA	38	27	19
LA	43	41	22
MISS	60	52	28
MO	61	44	27
NC	21	23	18
OKLA	0	0	0
SC	55	40	24
TENN	54	51	23
TEX	24	38	26
11 STATES	32	39	32

THESE 11 STATES PRODUCED 72%
OF THE 1977 U.S. COTTON CROP.

sorghum

	1978	1977	AVG.
COLO	15	20	14
KANS	45	35	25
MO	46	57	44
NEBR	45	45	45
OKLA	23	14	8
S DAK	39	23	54
TEX	78	86	83
7 STATES	56	55	51

THESE 7 STATES PRODUCED 93%
OF THE 1977 U.S. SORGHUM CROP.

SEEDING PROGRESS

PERCENT OF ACREAGE PLANTED
AS OF OCTOBER 15

winter wheat

	1978	1977	AVG.
COLO	95	98	96
ILL	65	44	63
IND	60	30	60
KANS	90	90	85
MO	48	29	NA
MONT	90	100	95
NEBR	100	100	100
OHIO	72	55	68
OKLA	79	84	80
S DAK	100	100	100
TEX	73	72	80
11 STATES	84	83	85

THESE 11 STATES PRODUCED 75%
OF THE 1977 U.S. WINTER
WHEAT CROP.

NA NOT AVAILABLE