

# WEEKLY WEATHER AND CROP BULLETIN

U.S. DEPARTMENT OF COMMERCE

Environmental Data Service, NOAA

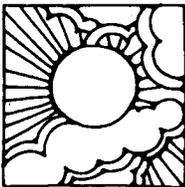
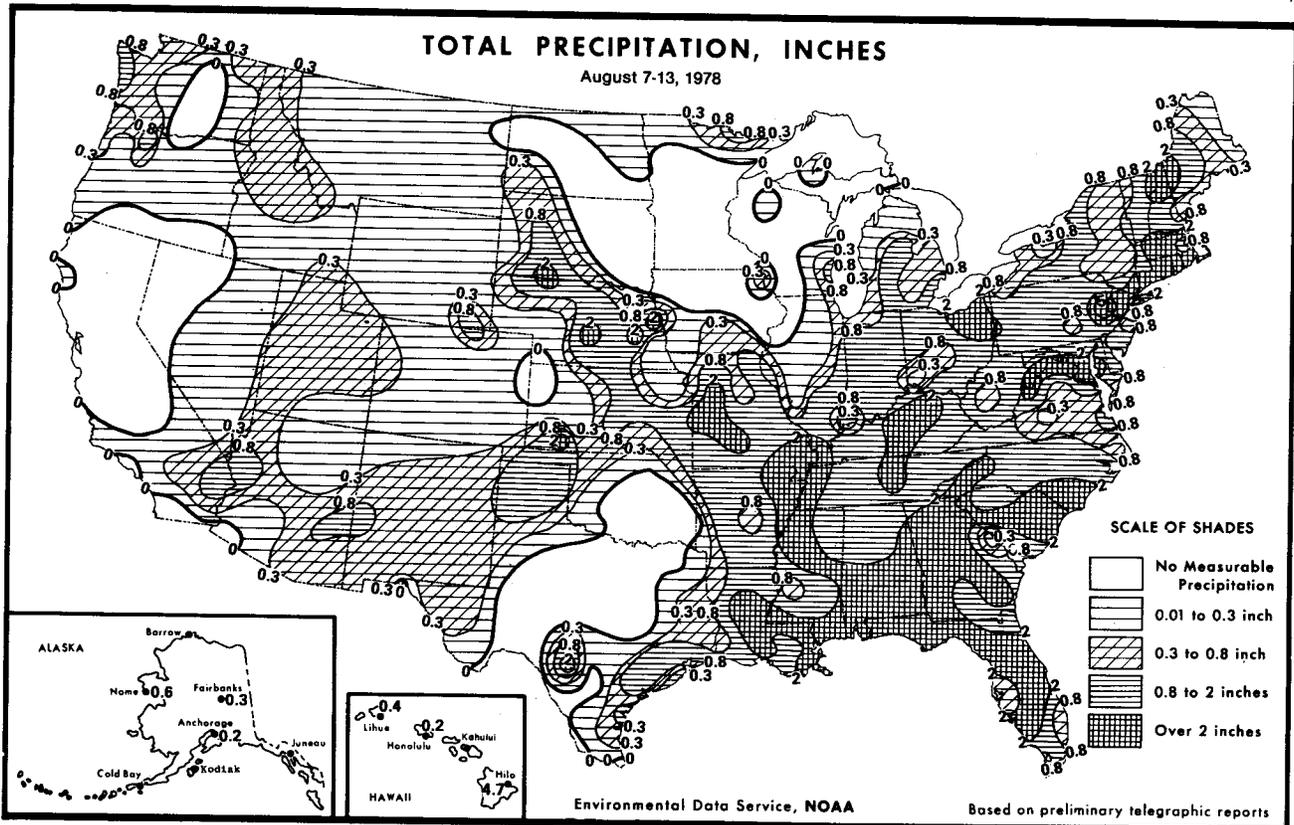
U.S. DEPARTMENT OF AGRICULTURE

Economics, Statistics, and Cooperatives Service

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Aug. 15, 1978



## National Weather Summary

August 7 - 13

**HIGHLIGHTS:** Most of the Nation's rain fell over a thin strip of the central Plains and expanded to cover nearly the entire U.S. east of the Mississippi River.

Temperatures ranged within 4 or 5 degrees of normal throughout the country except the West Coast. Readings there climbed as much as 13 degrees above normal in south central California.

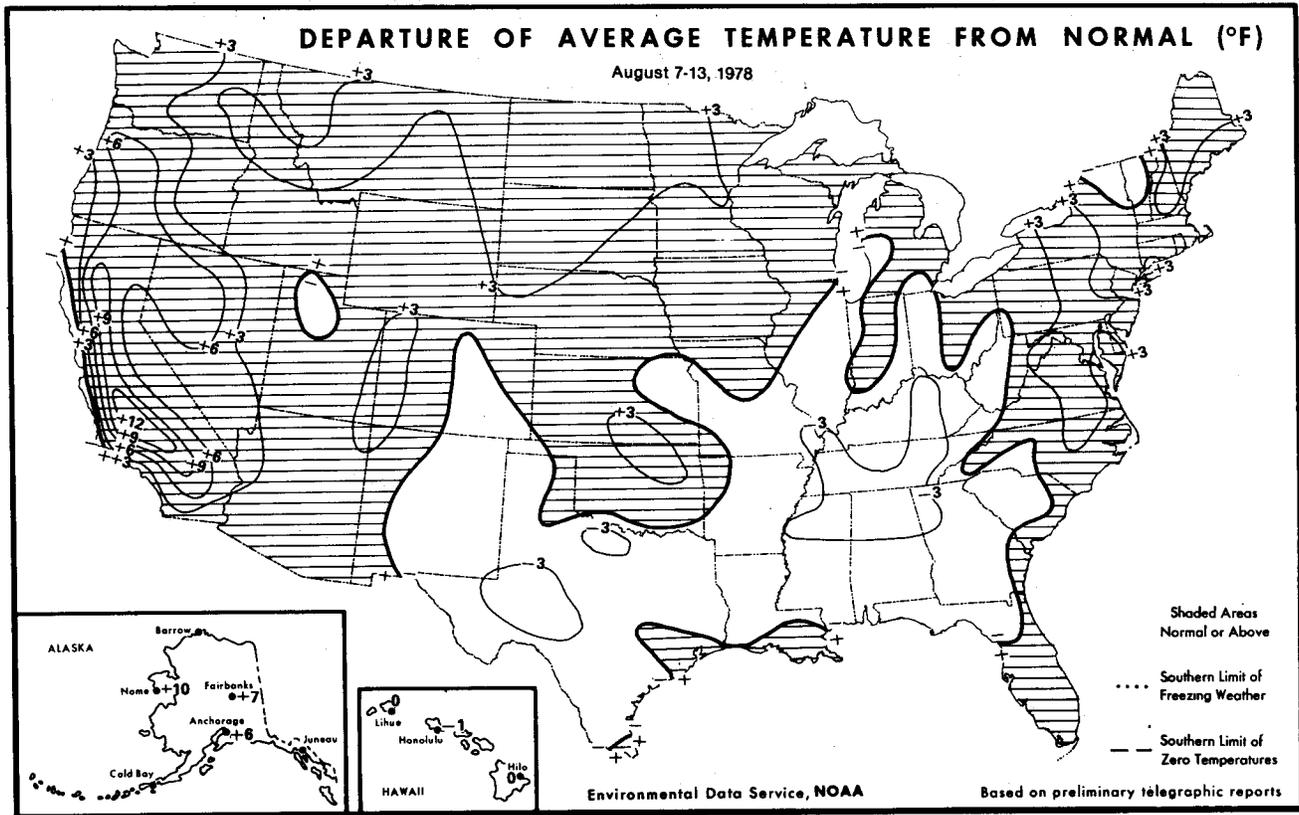
Monday morning thunderstorms rumbled over the eastern third of the U.S.; one inch-plus soaked Providence, R.I., Asheville, N.C., and Marietta, Ga. Two to six inches covered parts of the Carolinas and Georgia. Late afternoon downpours

hit the South and New England where one to 2 inches drenched South Weymouth, eastern Massachusetts, and McComb, southwestern Mississippi. A tornado touched down near Allentown, eastern Pennsylvania. Late evening thunderstorms and high winds raked Arizona.

Sizzling temperatures baked the West Coast States. In California, Bakersfield notched a record 109°, its 21st day above the century mark, and near its one-year record of 25 days at 100° or above. Red Bluff, north central California, had the Nation's high reading of 119°, tying its warmest temperature ever as well as its record of 21 days in a row at 100° or higher. The heat wave extended through Oregon where Medford noted 109° and The Dalles, in the extreme northern part of the State, saw 104°.

Tuesday started quietly with most rain confined to the Gulf Coast States; nearly 3 inches fell on New Orleans and 3 twisters were sighted in the area. Huntsville, Ala., called in an inch and a third.

By afternoon, a cold front triggered storms over the Midwest and eastern Rockies. Cheyenne,



Wyo., and Milwaukee both gathered an inch. Storms also made noise over West Texas when a station near El Paso reported local flooding after 1.5 inches in 35 minutes.

High temperatures warmed the Great Lakes and persisted in the West. Alpena, Mich., set a record 89°. Meantime Medford, Oreg., zeroed in on its all-time high of 110° and Red Bluff, Calif., matched its new high reading at 119°. The heat reached southern Washington and Idaho; Lewiston, northwestern Idaho, managed 105°.

Early Wednesday showers carried one to 2 inches of rain to the Texas Panhandle and parts of the South and Great Lakes. By evening, the Southeast quadrant showed 2.3 inches at Ft. Benning and Atlanta in Georgia, 2 inches at Montgomery, Ala., and more than an inch at Apalachicola and Tampa in Florida. Further north, Syracuse, N.Y., received 1.5 inches and Akron/Canton, Ohio, nearly 2 inches.

Temperatures remained very hot in the West; Red Bluff, Calif., kept its record going at 23 consecutive days of 100° and above.

Showers dampened most sections of the country on Thursday with the heaviest amounts over the midlands, the South, and from the Appalachians to the middle Atlantic States. Hit hardest were Harrisonburg, northwestern Virginia, 3.75 in., and Alma, southeastern Georgia, 2.44 in. Other cities collecting one to 2 inches included Kansas City, Memphis, Columbia, S.C., and Ft. Knox, Ky.

Temperatures dipped sharply in the northern tier of States---as low as the 30's in Minnesota. No records, but the heat held its ground in the West.

Rain fell, heavy at times, from the middle Mississippi Valley eastward to the Atlantic Coast

and southward to Florida on Friday. One to 2 inch rainfalls hit such scattered points as Allentown, Pennsylvania, Myrtle Beach, eastern South Carolina, and Cocoa Beach, Fla., along the Atlantic Seaboard. Especially heavy rain fell near Charleston, W.Va., and dumped more than 2 inches on Warrensburg, east of Kansas City, Mo. Quillayute, Wash., measured a bit more than an inch.

Temperatures climbed from interior California eastward to portions of the lower half of the Plains; in southeastern Wyoming, Torrington's reading jumped from 54° in the morning to 106° by afternoon.

Thunderstorms roamed over many sections of the country's eastern half. One to 2 inches soaked most of the towns with two and a quarter inches at Islip, N.Y., the highest total. Rain continued in the Northwest where some stations in Washington and Idaho reported a half-inch.

The heat persisted in California and most of the Plains. Fargo, N.Dak., hit a record 96° while El Paso reached a record-equaling 100°.

Thunderstorms formed over the southern tier of States and extended northward to the upper Delta Region and middle Atlantic Coast. Jonesboro, northeastern Arkansas, counted 2.3 inches; McComb, Miss., 4 inches; Columbus, Ga., 2.35 inches; and Washington, D.C., 1.17 in. By day's end, showers dotted the central Rockies where about a half-inch fell.

To the north temperatures soared as Alpena, Mich., checked off a record 90°, and North Platte, Nebr., and Minneapolis tied their high marks of 101° and 95°. Winter crept into Idaho's eastern mountains where Salmon reported 4 inches of snow.



## National Agricultural Summary

August 7 - 13

**HIGHLIGHTS:** Rain stretched from the lower Mississippi River Valley across the South, and into New England raising soil moisture supplies into the adequate to surplus category. Elsewhere soil moisture rated short to adequate. Most row crop production areas enjoyed near-normal temperatures. California endured unusually high temperatures stressing both crops and livestock. Winter wheat harvest reached 96%, close behind 1977's 98% and the 97% average. Spring wheat combining in the 5 major producing States stood at 28%, half 1977's 56% and behind the 36% average. Corn harvest slowly advanced northward; some of the Corn Belt crop advanced into the dent stage though most was in the dough stage. Soybean bloom was almost complete; podding progressed well along in northern areas. Most cotton finished setting bolls but very few bolls opened. Grain sorghum harvest had not advanced beyond Texas; heading was well advanced in the central Great Plains. Pastures rated fair to good; eastern grasslands better than western rangeland.

**SMALL GRAINS:** Winter wheat harvest advanced to 96%, a point less than average and 2 points less than 1977. Combining was finished in most major States; acreage remained for harvest in the northern tier States including the Pacific Northwest. Montana harvest reached 40%, 35 points less than 1977 and 10 points less than average. Corn Belt farmers plowed land for 1979 winter wheat. Plowing stood at 20% in Ohio, 15% in Indiana, and 35% in Illinois.

Spring wheat harvest in the 5 major States advanced to 28% compared with 56% last year and the 36% average. Last year at this time South Dakota farmers almost finished combining. Combining weather was almost ideal across the northern States.

Oats harvest ranged from 35% in North Dakota, to 45% in Wisconsin, 67% in Minnesota, and 90% in South Dakota. Barley combining stood at 5% in Montana, 10% in Idaho, 55% in North Dakota, 75% in Minnesota, and 90% in South Dakota. Both oats and barley harvests lagged far behind last year, but farmers made very good progress.

**CORN:** Corn rated good to excellent in the north central States; dry soils stressed some Minnesota corn. Late corn needs favorable weather and a little more moisture to fully mature and fill. In the eastern north central States, dough stage ranged from 20 to 70%; some of the crop dented. In the western north central States, dough ranged from 18 to 50%; most States were on the lower end of the range. Development throughout the north central States lagged 1977 by 20 to 50 points and nearly equal to 25 points less than normal.

In the South, maturity was well advanced. Harvest stood at 12% in Georgia, 7% in South Carolina, 30% in Louisiana and 22% in Texas. Rains slowed harvest in some areas.

**SOYBEANS:** Soybeans rated fair to mostly good throughout the Nation. Dry soils stressed stands in Arkansas, Kentucky, and Wisconsin. In the eastern Corn Belt, podding ranged from 20% in Ohio to 65% in Illinois--not far behind last year or normal. In the western Corn Belt, podding ranged from an unusually low 36% in Missouri to 81% in Iowa; most States fell closer to Iowa's development. Progress of the crop in this region also approached normal.

In the south central States, bloom ranged from 49% in Arkansas to almost 90% in most other States. Pod set ranged from 13% in Oklahoma to 33% in Arkansas, 38% in Alabama, 43% in Mississippi, 45% in Tennessee, and 66% in Louisiana. Pod set neared the normal.

**COTTON:** Cotton ranged from mostly fair to good. Boll set was almost complete except in Oklahoma where set stood at 46%. Open bolls ranged from only 1 to 3% except Texas where harvest advanced to 7%, 3 points ahead of last year and average. Dry soils and earlier heat stress caused some boll drop across the South. Insect populations gradually increased, however, rains in some areas disrupted spray schedules. Texas cotton harvest advanced into the central Blacklands. Showers helped some dryland Plains stands. New Mexico cotton rated good where soil moisture was adequate. Arizona's crop matured rapidly; harvest began in the Yuma area. California growers sprayed to control insects.

**OTHER CROPS:** Grain sorghum harvest in Texas reached 60%, ahead of 1977's 54% and the 48% average. Dryland stands on the High Plains suffered from lack of moisture but irrigated stands were good. Heading was well advanced through the major Great Plains States ranging from 34% in Oklahoma, to 40% in Colorado, 45% in Kansas, 75% in Nebraska, 62% in South Dakota, and 58% in Missouri. The crop began coloring in Kansas.

Rice harvest stood at 70% in Texas, slightly behind recent years. Louisiana's crop rated good; harvest reached 42%, ahead of 1977's 36% and the 27% average. Heading reached 51% in Mississippi and 47% in Arkansas. Arkansas farmers drained fields prior to harvest.

Maine potatoes rated good; dry conditions eased the late blight threat. Michigan potato harvest reached 7%. North Dakota potatoes showed drought stress; the Idaho crop displayed good development. Washington growers harvested Norgolds; Russets should begin soon. Oregon growers harvested early potatoes.

**FRUITS AND NUTS:** Fruit growers in eastern areas picked apples, peaches, and some grapes; the cherry harvests were almost complete. In the Pacific Coast States, growers picked apples, peaches, Bartlett pears, grapes, plums, nectarines, and prunes. High temperatures in California speeded maturity and bunched harvests, increasing cullage and putting a strain on processor capacity. Florida citrus groves rated excellent.

**VEGETABLES:** Northern producers harvested snap beans, cucumbers, sweet corn, and tomatoes. Southern growers prepared fields for fall planting. Florida growers began planting some crops including tomatoes, peppers, squash, and eggplant. Texas rains and lower temperatures helped recent plantings. Lettuce and cauliflower supplies were heavy, broccoli and cantaloupe light, and processing tomatoes increasing in California.

**PASTURES AND LIVESTOCK:** Eastern pastures rated fair to mostly good. Dry soils lowered grazing conditions in Michigan and Wisconsin, but the Dairyland State's pastures rated above normal yet. Southeastern grasslands rated good to excellent. Pastures in the south central States rated only fair although recent rains brought some improvement. Western rangeland dried seasonally. Grass fire problems persisted in California. Arizona pastures improved but lower to mid-level ranges needed moisture. Northwestern pastures dried but provided ample forage.

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., Aug. 13, 1978

States and Stations	Temperature of		Precipitation Inches		States and Stations	Temperature of		Precipitation Inches		States and Stations	Temperature of		Precipitation Inches	
	Average	Departure	Total	Departure		Average	Departure	Total	Departure		Average	Departure	Total	Departure
ALA. Birmingham . . .	77	- 3	.9	- .1	LA. Baton Rouge . . .	82	0	.9	- .2	Youngstown . . .	70	0	1.0	+ .2
Mobile . . .	80	- 2	2.7	+ 1.0	Lake Charles . . .	82	- 1	.6	- .5	OKLA. Okla. City . . .	84	+ 2	T	- .5
Montgomery . . .	79	- 2	2.7	+ 1.0	New Orleans . . .	82	0	1.7	+ .5	Tulsa . . .	86	+ 3	0	- .6
ALASKA Anchorage . . .	63	+ 6	2	- .3	Shreveport . . .	83	- 1	.4	- .2	OREG. Astoria . . .	63	+ 3	.6	+ .3
Barrow . . .	-	-	-	-	MAINE Caribou . . .	69	+ 5	T	- .8	Burns . . .	69	+ 2	.1	- .0
Fairbanks . . .	64	+ 7	.3	- .3	Portland . . .	70	+ 2	.7	+ .1	Medford . . .	75	+ 4	0	- .1
Juneau . . .	-	-	-	-	MD. Baltimore . . .	79	+ 3	1.4	+ .4	Pendleton . . .	75	+ 2	.1	- .0
Kodiak . . .	-	-	-	-	MASS. Boston . . .	73	+ 1	1.5	+ .7	Portland . . .	72	+ 5	.5	+ .4
Nome . . .	60	+10	.6	- .2	Chatham . . .	-	-	-	-	Salem . . .	74	+ 7	.2	+ .1
ARIZ. Flagstaff . . .	66	+ 1	.2	- .4	MICH. Alpena . . .	66	+ 1	.1	- .5	PA. Allentown . . .	75	+ 2	5.6	+ 4.6
Phoenix . . .	92	+ 2	.2	- .1	Detroit . . .	72	- 2	.9	+ .1	Erie . . .	73	+ 5	.6	- .1
Tucson . . .	85	+ 1	.8	+ .2	Flint . . .	71	+ 2	.4	- .4	Harrisburg . . .	78	+ 3	.3	- .5
Winslow . . .	79	+ 2	.2	- .2	Grand Rapids . . .	69	- 2	1.0	+ .5	Philadelphia . . .	80	+ 4	.9	- .1
Yuma . . .	96	+ 2	0	- .1	Houghton Lake . . .	68	+ 2	.2	- .3	Pittsburgh . . .	71	0	1.3	+ .5
ARK. Fort Smith . . .	84	+ 2	T	- .6	Lansing . . .	71	0	.5	- .1	Scranton . . .	72	+ 1	.8	- .0
Little Rock . . .	80	- 2	.4	- .2	Marquette . . .	68	+ 1	0	- .6	R.I. Providence . . .	73	+ 2	3.3	+ 2.4
CALIF. Bakersfield . . .	95	+13	0	0	Muskegon . . .	68	+ 1	.1	- .5	S.C. Charleston . . .	80	0	1.9	+ .4
Eureka . . .	57	0	0	- .1	S. Ste. Marie . . .	66	+ 2	T	- .7	Columbia . . .	80	- 1	2.3	+ 1.0
Fresno . . .	88	+ 9	0	0	MINN. Duluth . . .	68	+ 2	T	- .9	Greenville . . .	76	- 2	1.1	+ .2
Los Angeles . . .	75	+ 1	0	0	Internat'l Falls . . .	68	+ 3	.8	- .0	S.D. Aberdeen . . .	77	+ 5	0	- .5
Red Bluff . . .	90	+ 9	0	0	Minneapolis . . .	75	+ 3	0	- .8	Huron . . .	77	+ 3	T	- .4
San Diego . . .	74	+ 3	T	0	Rochester . . .	70	0	0	- .8	Rapid City . . .	77	+ 4	T	- .4
San Francisco . . .	62	- 1	0	0	St. Cloud . . .	71	+ 1	0	- .9	Sioux Falls . . .	75	+ 1	0	- .6
Stockton . . .	84	+ 8	0	0	MISS. Jackson . . .	81	- 1	.8	- .0	TENN. Chattanooga . . .	76	- 3	.9	+ .2
COLO. Denver . . .	73	0	.1	- .2	Meridian . . .	79	- 2	1.6	+ .7	Knoxville . . .	75	- 3	.9	+ .1
Grand Junction . . .	80	+ 3	.5	+ .3	MO. Columbia . . .	78	- 1	.3	- .2	Memphis . . .	80	- 1	2.5	+ 1.7
Pueblo . . .	76	0	.1	- .4	Kansas City . . .	77	- 2	.6	- .2	Nashville . . .	77	- 2	.9	+ .2
CONN. Bridgeport . . .	77	+ 3	3.6	+ 2.7	St. Louis . . .	76	- 2	.2	- .5	TEX. Abilene . . .	84	- 1	0	- .5
Hartford . . .	72	0	1.5	+ .6	Springfield . . .	78	0	1.1	+ .5	Amarillo . . .	77	- 2	1.4	+ .7
D.C. Washington . . .	82	+ 4	2.2	+ 1.1	MONT. Billings . . .	74	+ 2	.1	- .1	Austin . . .	85	0	T	- .4
FLA. Apalachicola . . .	80	- 2	2.4	+ .7	Glasgow . . .	74	+ 3	.1	- .2	Beaumont . . .	85	+ 1	1.6	+ .3
Daytona Beach . . .	83	+ 2	4.3	+ 2.8	Great Falls . . .	74	+ 5	T	- .2	Brownsville . . .	85	0	0	- .5
Ft. Myers . . .	84	+ 1	2.3	+ .6	Havre . . .	74	+ 4	T	- .2	Corpus Christi . . .	85	- 1	T	- .6
Jacksonville . . .	81	0	.9	- .9	Helena . . .	72	+ 4	.1	- .1	Del Rio . . .	85	- 2	T	- .2
Key West . . .	85	0	.4	- .5	Kalispell . . .	65	+ 1	.2	- .1	El Paso . . .	81	0	T	- .3
Lakeland . . .	83	+ 1	.9	- .7	Miles City . . .	78	+ 3	T	- .3	Fort Worth . . .	84	- 2	0	- .5
Miami . . .	83	0	.5	- .9	Missoula . . .	69	+ 2	.1	- .1	Galveston . . .	85	+ 1	T	- .9
Orlando . . .	82	0	2.5	+ 1.0	NEBR. Grand Island . . .	78	+ 1	1.7	+ 1.1	Houston . . .	84	0	1.1	+ .1
Tallahassee . . .	79	- 2	3.4	+ 1.8	Lincoln . . .	78	+ 1	.2	- .5	Lubbock . . .	79	0	.1	- .3
Tampa . . .	83	+ 1	1.3	- .5	Norfolk . . .	77	+ 1	.6	- .0	Midland . . .	79	- 4	0	- .4
W. Palm Beach . . .	82	0	.3	- .1	N. Platte . . .	76	+ 1	T	- .6	San Angelo . . .	79	- 7	0	- .3
GA. Atlanta . . .	75	- 3	4.1	+ 1.3	Omaha . . .	77	+ 2	.3	- .5	San Antonio . . .	83	- 2	0	- .5
Augusta . . .	80	0	.1	- .9	Valentine . . .	77	+ 3	1.0	+ .4	Victoria . . .	84	- 1	.9	+ .3
Macon . . .	80	1	2.4	+ .5	NEV. Ely . . .	69	+ 2	.2	+ .1	Waco . . .	86	- 1	0	- .4
Savannah . . .	81	0	1.5	0	Las Vegas . . .	92	+ 4	T	- .1	Wichita Falls . . .	84	- 3	0	- .4
HAWAII. Hilo . . .	76	0	4.7	+ 2.1	Reno . . .	72	+ 4	T	- .1	UTAH. Blanding . . .	-	-	-	-
Honolulu . . .	80	- 1	.2	0	Winnemucca . . .	76	+ 7	T	- .1	Salt Lake City . . .	75	- 1	.8	+ .6
Kahului . . .	-	-	-	-	N.H. Concord . . .	72	+ 4	.4	- .2	VT. Burlington . . .	71	+ 2	.3	- .5
Lihue . . .	79	0	.4	- .1	N.J. Atlantic City . . .	78	+ 4	1.7	+ .5	VA. Lynchburg . . .	77	+ 2	.3	- .6
IDAHO. Boise . . .	75	+ 1	.1	0	Trenton . . .	77	+ 3	.3	- .7	Norfolk . . .	81	+ 3	.8	- .6
Lewiston . . .	77	+ 4	.4	+ .3	N. MEX. Albuquerque . . .	77	- 1	.6	+ .2	Richmond . . .	81	+ 4	.4	- .8
Pocatello . . .	72	+ 1	.2	+ .1	Roswell . . .	78	- 1	.4	0	Roanoke . . .	77	+ 2	.7	- .3
ILL. Cairo . . .	77	- 3	3.2	+ 2.4	N.Y. Albany . . .	72	+ 1	.7	+ .1	WASH. Colville . . .	69	+ 1	.5	+ .3
Chicago . . .	75	0	.6	- .1	Binghamton . . .	71	+ 3	.6	- .2	Omak . . .	73	+ 4	0	- .1
Moline . . .	75	+ 1	T	.8	Buffalo . . .	71	+ 2	.5	- .3	Quillayute . . .	63	+ 4	1.8	+ 1.2
Peoria . . .	75	0	.1	- .6	New York . . .	77	+ 1	T	- .7	Seattle-Tacoma . . .	69	+ 5	.2	0
Rockford . . .	73	0	.2	- .6	Rochester . . .	73	+ 3	T	- .7	Spokane . . .	72	+ 3	.1	0
Springfield . . .	75	0	T	- .6	Syracuse . . .	74	+ 3	1.7	+ .9	Walla Walla . . .	77	+ 2	.1	0
IND. Evansville . . .	77	0	T	- .7	N.C. Asheville . . .	72	+ 2	3.6	+ 2.5	Yakima . . .	71	+ 1	0	- .1
Ft. Wayne . . .	72	0	1.2	+ .5	Charlotte . . .	78	0	1.3	+ .4	W. VA. Beckley . . .	70	0	1.0	+ .2
Indianapolis . . .	76	+ 2	1.3	+ .7	Greensboro . . .	77	0	1.5	+ .5	Charleston . . .	73	- 1	.7	- .2
South Bend . . .	73	+ 1	.5	- .3	Hatteras . . .	80	+ 2	.8	- .7	Huntington . . .	75	0	1.1	+ .3
IOWA. Burlington . . .	74	- 1	0	- .7	Raleigh . . .	80	+ 3	1.0	- .1	Parkersburg . . .	73	- 2	1.7	+ .9
Des Moines . . .	77	+ 2	.4	- .3	Wilmington . . .	81	+ 1	2.1	+ .5	WISC. Green Bay . . .	70	+ 1	0	- .6
Dubuque . . .	72	0	0	- .8	N. DAK. Bismarck . . .	75	+ 4	0	- .5	La Crosse . . .	75	+ 2	0	- .6
Sioux City . . .	75	0	0	- .6	Fargo . . .	76	+ 5	T	- .7	Madison . . .	71	+ 1	T	- .7
KANS. Concordia . . .	79	0	1.2	+ .5	Williston . . .	75	+ 4	T	- .4	Milwaukee . . .	71	+ 1	1.0	+ .4
Dodge City . . .	81	+ 1	T	- .6	OHIO. Akron-Canton . . .	72	- 1	2.7	+ 2.0	WYO. Casper . . .	73	+ 2	.1	0
Goodland . . .	77	+ 1	T	- .5	Cincinnati . . .	73	- 2	.2	- .4	Cheyenne . . .	69	0	.9	+ .5
Topeka . . .	78	+ 1	T	1.0	Cleveland . . .	73	+ 2	2.2	+ 1.5	Lander . . .	72	+ 1	.1	- .1
Wichita . . .	84	+ 3	.3	- .4	Columbus . . .	73	0	.5	- .2	Sheridan . . .	72	+ 1	.1	- .1
KY. Lexington . . .	73	- 3	2.9	+ 2.1	Dayton . . .	72	- 2	.7	+ .1	P.R. San Juan . . .	84	+ 3	.7	- .9
Louisville . . .	76	- 1	.9	+ .2	Toledo . . .	71	- 1	.9	+ .2					

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. Rainfall totals 1.00 to 4.00 in.

Fieldwork: 3.5 days suitable. Soil moisture adequate. Major activities; harvesting hay and silage, weed and insect control, preparing machinery for fall harvest. Cotton fair to good condition; 90% setting bolls, 96% 1977, 91% average. Soybeans good condition; 38% setting pods, 52% 1977, 39% average. Peanuts good condition; leaf-spot and white mold causing some problems. Rainfall improving pastures. Corn fair to good condition; 43% mature, 53% 1977, 38% average.

**ALASKA:** High temperatures near 70° with average temperatures 2 to 7° above normal. Showers brought only light rainfall. Seasonal rainfall near to slightly below normal.

Scattered showers frustrated farmers throughout railbelt. Hay harvest continued. Small grain development 2 weeks behind normal. Last harvest getting underway. Potatoes showing good growth. Vegetable harvest active. Soil moisture adequate.

**ARIZONA:** Hot, humid. Temperatures near normal. Rainfall all regions, some more than 1.00 in.

First cotton ginned yuma. Cotton maturing rapidly, insect activity increasing. Cotton rust serious some areas. Early sorghum approaching maturity, later plantings good progress. Corn growing well. Fall sugarbeets good top, tap root growth. Alfalfa haying continued. Field preparations well advanced for fall vegetables, melons. Lettuce planting almost complete Cochise County. Green chili harvest active. Lemon picking active yuma. Scattered rainfall many areas. Ranges improved. Lower to mid-elevation deserts need more rainfall. Cattle, calves, sheep, lambs mostly good condition.

**ARKANSAS:** Temperatures slightly below normal except slightly above normal west and southwest. Rainfall light to moderate.

Insufficient rain in most of the major crop producing areas continued drought stressed conditions and increased feeding of hay for livestock. Soil moisture short. Fieldwork: 6.3 days available. Soybeans fair condition; 49% bloom, 33% pod development. Cotton fair condition; virtually 100% boll set. Dry cotton shedding bolls. Rice conditions good, 47% forming heads. Early fields drained for harvest. Corn and sorghum fair condition and maturing. Sorghum harvest underway. Peach harvest active. Apple harvest underway, good quality. Grapes good. Pastures below average condition. Hay harvest near standstill. Cattle fair condition.

**CALIFORNIA:** Midweek brought unseasonably warm temperatures interior sections; only coastal areas where low clouds, fog moderated temperatures did averages remain near normal. Precipitation limited; few very widely scattered showers in mountains.

Safflower full bloom. Field corn tassel stage. Small grain harvest complete. Rice heading out; weed control necessary. Cotton insect control needed with varied results. Alfalfa seed being harvested. Some blackeye beans maturing. Early sorghum headed out. Some alfalfa hay reaching 5th cutting. Gravenstein apple harvest active. Black Mission fig harvest continues. Wine variety grapes coloring rapidly; some early varieties harvested. Picking Thompson seedless grapes for

table use increased. High temperatures caused some maturity problems. Ribier and Red Malaga table grape harvest began. Tokay harvest expected 15th. Plum, nectarine, freestone peach and Bartlett pear harvests continue. Prune harvest began. Cling peach harvest very active as heat bunched harvest. Processors at capacity. Soft fruit cullage increased. Almond shaking underway early varieties. Citrus and avocado harvest seasonally normal. Broccoli harvest fairly light. Cauliflower harvest heavy, much diverted to processors. Cantaloup harvest slowed as many growers between fields. Lettuce supplies heavy. First sweet-potato harvest started. Processing tomatoes increasing. High temperatures caused reduction milk, egg production. Increased death loss of turkeys, chickens attributed to heat. Cattle, calf loss reported. Grass fires continue problem.

**COLORADO:** Widely scattered light showers; amounts averaged 0.20 in. Temperatures cooler than normal east and warmer west.

Corn good condition; tasseled 96%, 100% 1977, 93% average; silked 87%, 90% 1977; average height 79 in., 76 in. 1977. Sorghum good condition; headed 40%, 62% 1977. Dry beans good condition; flowered 80%, 78% 1977. Summer potatoes very good condition; harvested 33%, 48% 1977, 24% average. Alfalfa very good condition; second cutting 94% 67% 1977; third cutting 6%, 20% 1977. Spring barley very good condition. Oats, sugarbeets good condition. Ranges and pastures fair to poor condition. Livestock good condition. Fieldwork: 6 days suitable.

**FLORIDA:** Rains of 3.00 to 5.00 in. over. Panhandle 10th and 11th. Temperatures 4 to 8° below normal. Elsewhere normal temperatures and precipitation. Partly cloudy, warm, humid conditions with scattered thundershowers.

Soil moisture mostly excessive. Harvests of corn, hay and silage crops making little progress because of wet conditions. Tobacco harvest nearing completion, sales active. Peanuts, soybeans, and sugarcane very good condition. Little disease problems to date. Pastures generally excellent condition, however, surplus moisture many low lying areas. Cattle, calves responding well to abundant grass. Marketing calves active. General conditions in citrus groves excellent. Heavy rain all areas, abundance of new growth, caretakers very active. Field, seedbed preparations very active fall vegetable crops. Plants in seedbeds progressing favorably. Plantings gaining momentum. Tomato planting underway all areas. Early pepper seeding underway southwest, southeast. Small acreage squash seeded Dade County. Eggplant transplanting about complete Sumter County.

**GEORGIA:** Temperatures 1 to 4° below normal except coast where 1° above. Temperatures low 70's mountains to near 80° central and south with low 80's along coast. Widespread rain and thundershowers north 7th thru 9th, south and east received widespread showers with generally light amounts 9th and 10th. Amounts excessive mountains, mostly better than 4.00 in., generally light south and extreme southeast with 1.00 in. or less.

Soil moistures greatly improved, adequate to surplus, still some dry spots. Fieldwork: 3 days suitable. Insect control very active. Corn

poor to fair, slightly improved; 12% harvested. Peanuts good, all blooming and pegging, same last year. Soybeans improved, mostly good. Cotton fair to good, insects and controls active; 98% setting bolls, 99% last year, average 97%. Tobacco good; 73% harvested. Last year 66%, 97% average. Peaches fair to good; 96% picked, last year 99% average 99%. Apples fair to good; 27% picked, 26% last year. Watermelons fair to good; 89% harvested last year 95%. Hay fair to good. Pastures fair to mostly good. Cattle and hogs good.

**HAWAII:** Weather favorable. Some good downpours early week Hawaii beneficial agriculture. Rain-fall light other Islands.

Diseases affecting yields lettuce crop Hawaii and Oahu. Frequent spraying necessary. Vegetable supplies light to moderate. Leaf crops continue short. Banana supplies steady. Papaya supplies declining. Sugar harvesting steady. Pineapple harvesting last week of peak harvest. Pastures good. Soil moisture ample.

**IDAHO:** Temperatures above normal. Week's high 106°. Precipitation virtually nonexistent except for thunderstorm activity.

Weather ideal for grain harvest. Winter wheat 30% harvested, last year 55%. Spring wheat 10% harvested, 25% last year and normal 20%. Spring barley and oats 10% harvested, last year 35%, and 30% respectively. Potatoes continue to make good development. Range feed seasonally dry.

**ILLINOIS:** Temperatures above normal most areas; 2° below southwest. Precipitation sparse.

Corn 70% dough, 1977 91%, average 82%; 24% dent, 1977 57%, average 41%; condition good. Soybeans 88% bloomed, 1977 100%, average 100%; pod set 65%, 1977 88%, average 88%; condition good. Winter wheat acreage 35% plowed, 1977 58%, average 50%. Oats 98% harvested, 1977 100%, average 100%. Third crop alfalfa hay 32% cut, 1977 46%, average 31%. Hay condition good. Pasture condition good to fair. Soil moisture adequate. Fieldwork: 6.3 days suitable.

**INDIANA:** Northeast received some needed showers; nearly 1.00 in. Extreme southwest reported none. Southern third averaged 0.30 to 0.60 in., central 0.50 to 0.80 in., and north 0.40 to 0.90 in. Temperatures, humidity and sunshine averaged near normal.

Fieldwork: 4 days suitable. Corn 90% silked, 1977 100%, average 90%; 50% dough, 1977 90%, average 50%; condition good. Soybeans 90% blooming, 1977 100%; 45% setting pods; condition fair to mostly good. Wheat land 15% plowed, 1977 15%, average 30%. Topsoil and subsoil moisture adequate. Pastures fair to mostly good.

**IOWA:** Warm, dry. Precipitation light except scattered showers southwest and south central.

Topsoil moisture short to adequate. Subsoil moisture adequate. Corn, soybeans, good to excellent. Hays and pasture good condition. Corn 63% milk stage last year 100%; dough stage 37%, last year 84%, normal 53%; dent stage last year 37%, normal 16%. Soybean acreage setting pods 81%, last year 95%, normal 82%. Second crop clover hay harvested 81%, last year 63%, normal 63%. Light to moderate damage done by Grasshoppers. Fieldwork: 6.6 days suitable. Livestock good condition.

**KANSAS:** Mid-summer heat with averages 79° northwest and north central and 84° south central; normal to 3° above normal. Precipitation spotty with several stations reporting 0.50 to 1.50 in.

More than half of reporting stations received little or none.

Corn 50% in or past dough stage, last year 70%, average 60%; 15% corn dented, 30% last year, average 20%; 5% mature, 15% last year, average 5%. Sorghum grain headed 45%, last year 60%, average 45%; 5% coloring, 10% last year, average 5%. Soybeans 50% setting pods, last year 60%, average 50%. Third cutting alfalfa 65%, last year 80%, average 55%. Fourth cutting 5%, last year 10%. Fieldwork: 6 days suitable. Moisture short southern two-thirds.

**KENTUCKY:** Scattered showers and thundershowers each day accumulated 1.05 in. west to 1.63 in. central.

Fieldwork: 4 days suitable. Some haying and insect control delayed by rain. Soil moisture adequate. Important corn and soybean area dry in west. Corn 36% milk or earlier, 39% dough, 25% dent. Corn rated poor to fair west. Good elsewhere. Tobacco made good growth after recent rain. Burley rated fair west, good elsewhere. Burley 29% topped dark types 34% topped. Late planted soybeans poor germination in dry west. Beans look good in east. Soybeans 38% blooming or podding.

**LOUISIANA:** Temperatures near normal. Extremes: 102 and 63°. Scattered showers, heaviest southeast.

Fieldwork: 5.1 days suitable. Soil moisture short except southeast where adequate to surplus. Rice good; 42% harvested, 36% last year, 27% average. Cotton fair; 96% setting bolls, 2% bolls open. Soybeans fair to good; 87% blooming or beyond, 88% last year; 66% setting pods, 60% last year. Corn fair to good; 97% mature, 75% last year; 30% harvested, 8% last year. Sorghum fair to good; 91% headed, 95% last year; 48% turning color, 35% last year; 12% ripe. Sugarcane, sweetpotatoes fair to good; some sweetpotatoes dug. Pastures, cattle fair to good. Hay fair.

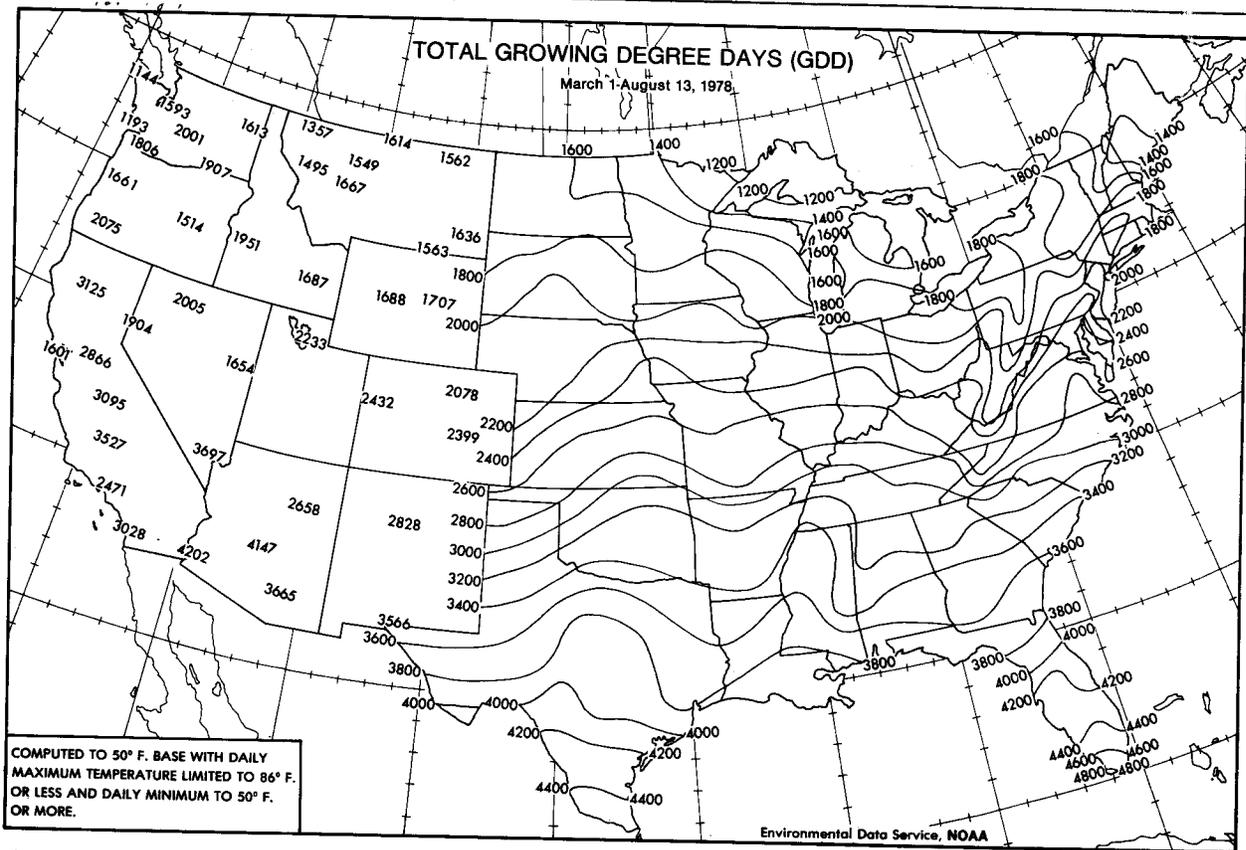
**MARYLAND & DELAWARE:** Temperatures 3° above normal. Highs in upper 80's, lows in 60's. Precipitation ranged from 0.75 to 2.00 in.

Fieldwork: 3.7 days suitable. Soil moisture surplus. Pastures supplying above average amounts of feed. Corn 90% silked; 50% in dough stage, 59% 1977, 54% average; 25% in dent stage, 28% 1977, 20% average. Soybeans 60% bloomed, 57% 1977, 62% average; 25% podded, 29% 1977, 28% average. Third cutting alfalfa 60% completed, second cutting clover and clover mixtures 85% completed. Tobacco being topped and sprayed; harvesting just getting underway.

**MICHIGAN:** Temperatures near normal. Warmest weekend with maximum temperatures mid-80's to low 90's 13th. Coldest 10th and 11th with minimum temperatures 40's and 50's. Southwest, central, and southeast precipitation averaged 0.40 to 1.00 in.

Fieldwork: 6 days suitable. Soil moisture mostly short. Corn 20% in dough, 65% silked. Wheat 98% combined, 96% normally. Oats 75% harvested, 85% last year, 60% normally. Potatoes 7% dug. Dry beans 70% setting pods, 25% blooming. Soybeans 55% setting pods, 40% blooming. Second cutting hay 85% complete, same as last year. Pasture feed supplies below average to average. Tart cherry harvest virtually complete. Pickle and other vegetable and fruit harvest active.

**MINNESOTA:** Temperatures near normal east and south and 4 to 9° above normal elsewhere. Extremes: 98 and 44°. Precipitation nearly none except 0.25 to



0.87 in. extreme north central and extreme north-east.

Hot, dry weather pushed small grain harvesting, but put late season crops under stress. Additional moisture needed to sustain development in many areas. Moisture short in southwest, adequate northeast half, southeast. Corn 74% in milk, 1977 99%, normal 73%; in dough 18%, 1977 87%, normal 33%. Soybeans 78% setting pods, 1977 91%, normal 82%. Combined: Spring wheat 36%, 1977 72%, normal 45%; oats 67%, 1977 87%, normal 68%; barley 75%, 1977 91%, normal 67%; winter wheat 95%, 1977 96%, normal 90%; rye 85%, 1977 99%, normal 91%. Flax 70% ripe, 1977 91%, normal 81%. Few flax fields harvested.

**MISSISSIPPI:** Temperatures 3 to 5° subnormal. Scattered thundershowers statewide.

Soil moisture short to adequate. Fieldwork: 4.9 days suitable. Crops improved from scattered rains but many areas still dry. Soybeans 85% blooming, 90% 1977, 67% average; 43% podding, 53% 1977. Cotton 99% setting bolls, 97% 1977, 92% average; 1% open bolls, 5% 1977. Corn 98% dough stage, 97% 1977; 80% denting, 80% 1977; 37% mature, 31% 1977. Corn silage 60% harvested, 57% 1977. Rice 51% headed, 60% 1977. Sorghum 74% headed, 73% 1977. Hay crops 69% harvested, 60% 1977, 62% average. Peanuts 4% harvested, 12% 1977. Watermelons 85% harvested, 83% 1977, 75% average. Sweetpotatoes 7% harvested, 8% 1977, 14% average. Soybeans, rice good condition. Cotton, pastures and corn fair to good condition.

**MISSOURI:** Temperatures 1 to 3° below normal, with warming trend late week. Precipitation 0.50 in.; locally heavy thunderstorms.

Fieldwork: 5.4 days suitable. Corn 86% tasseling and beyond; 63% silked, normal 90%;

26% in dough stage, last year 90%, normal 59%. Soybeans 68% blooming, last year 83%, normal 74%; 36% setting pods, last year 61%, normal 46%. Grain sorghum 58% headed, last year 89%, normal 69%. Cotton 90% setting bolls, last year 100%, normal 85%. Third cutting alfalfa hay 39% harvested, last year 56%, normal 42%. Condition of corn, soybeans, cotton and pasture mostly fair to good. Soil moisture short to adequate.

**MONTANA:** Hot, dry until weekend. Maximums in 90's but cooled into 50's and 60's end of week. Moisture weekend; precipitation average well below normal except southwest. Temperatures 4° above normal; warmest readings over Plains.

Harvest progress good but behind normal. Winter wheat 40% combined, last year 75%, normal 55%. Spring wheat and barley harvest 5% done, last year 35%, normal 25%. Oats 5% combined, 45% last year, 30% normal. About 20% spring wheat and barley and 25% oats ripe. Fieldwork: 7 days suitable. Topsoil moisture short to adequate. Second cutting alfalfa 30% harvested, wild hay 70%.

**NEBRASKA:** Temperatures below normal first half period; normal to above thereafter. Scattered showers many areas; greatest amounts central.

Corn dough stage 25%, 60% year ago, 50% normal. Silking near 100%. Sorghum heading 75%, 95% year ago, 85% normal. Soybean podding 65%, 75% year ago, over 70% normal. Third cutting alfalfa 15% complete, year ago 50%. Fieldwork: 6.3 days suitable.

**NEVADA:** Record breaking heat wave; cooling end of period. Thunderstorms south, little precipitation elsewhere. Extremes: 31 and 114°.

Haying, harvesting small grains active. Ranges continue to dry.

NEW ENGLAND: Temperatures near normal to 10° above normal. Rainfall light north but heavy south.

Heavy rains early week flooded many cranberry bogs. Harvest of early apples and peaches began. Aroostook County, Maine potato crop continues to look good; dry weather eased late blight situation. Rainy weather slowed or stopped most haying operations. With exception of Maine, soil moisture adequate to surplus.

NEW JERSEY: Temperatures slightly above normal. Extremes: 60 and 90°. Rainfall averaged 2.91 in. north, 1.25 in. central, and 0.84 in. south.

Soil temperature 74 to 76°. Fieldwork: 4 days suitable. Prolonged rain and humid weather hurt crop quality. Planting, harvesting and spraying schedules delayed. Most summer vegetables available in moderate volume. Blueberry harvest declining rapidly. Peach volume continues to increase. Summer apples available. No grain or hay harvested. Field corn and soybeans growing well but some fields weedy.

NEW MEXICO: Cool first half of week, warming 11th through 13th. Temperatures near normal to 4° subnormal. Scattered afternoon and evening thundershowers; totals generally less than 0.50 in.

Soil moisture very short to adequate. Scattered showers did little to replenish soil moisture. Cotton showing good progress where moisture adequate. Alfalfa harvest in third cut in north, fourth cut moving northward. Grain sorghum about 80% headed. Corn tasseling, about 30% in dough stage. Harvest of onions and green chili continues. Picking summer apples underway. Other crops in fair to good condition.

NEW YORK: Temperatures slightly above normal. Rainfall varied from 2.65 in. to trace.

Wheat 70% combined. Oats 25% combined, 45% 1977. Second cutting alfalfa 65% complete, 75% 1977. Condition of vegetable crops mostly good, harvesting continues.

NORTH CAROLINA: Temperatures 2° subnormal in mountains, 3° above normal elsewhere. Precipitation moderate to heavy; heaviest in west.

Fieldwork: 3.2 days suitable. Soil moisture adequate to surplus. Condition of tobacco, corn, cotton, peanuts, soybeans, hay crops, sweetpotatoes, apples and pasture mostly good. Harvested: Flue-cured tobacco 39%, 1977 43%, average 53%. Sweetpotatoes 7%, 1977 4%, Hay 87%, 1977 73%, average 71%. Apple harvest just getting underway.

NORTH DAKOTA: Hot, dry. Temperatures averaged 6 to 9° above normal and readings over 100° were common weekend. Temperatures ranged from 38° southeast to 105° west central. Precipitation spotty and most areas didn't receive any. Late planted crops showing signs of drought stress, particularly sunflowers and corn. Early maturing varieties of potatoes also drought stricken. Good general rain needed. Excellent harvesting weather, however. Spring wheat 20% harvested, 44% 1977, 23% average; Durum 8% harvested, 23% 1977, 10% average. Barley 55% harvested, 66% 1977, 43% average. Oats 35% harvested, 59% 1977, 38% average.

OHIO: Temperatures normal, high 80's north, lows mid-50's north. Rainfall variable, 0.50 to 2.00 in. typical. Some isolated areas relatively dry.

Main activities: Vegetable harvesting, hay baling, topping tobacco, plowing for winter wheat. Corn development on schedule; other crops slightly

behind normal. Livestock in good condition. Corn milk stage 25%. Soybeans pods fully set 20%, 30% 1977, 25% average. Oats harvested 85%, 100% 1977, 95% average. Tobacco topped 25%, 45% 1977, 25% average. Land plowed for fall seeding 20%, 25% 1977, 20% average. Fieldwork: 3.5 days favorable. Pasture condition good. Soil moisture adequate.

OKLAHOMA: Temperatures very near normal. Rainfall sparse; widely scattered thundershowers produced measurable amounts most of State.

Topsoil and subsoil moisture supplies short. Grasshopper counts high. Corn rated good to fair; 11% mature 1978 and 1977, 16% normal. Sorghum good to fair with 34% headed, 76% 1977 and normal. Cotton rated fair with 46% setting bolls, 76% 1977, 54% normal. Peanuts fair condition with 42% pegging 1978 and 1977, 54% normal. Soybeans rated fair to good with 13% setting pods, 45% 1977, 26% normal. Alfalfa fair condition. Fieldwork: 6.7 days suitable. Pastures rated fair but livestock continue to gain weight.

OREGON: Temperatures averaged 2 to 4° above normal at coast and nearly 10° above normal in western valleys. Temperatures in east ranged from 8 to 12° above normal. Rainfall limited to few scattered showers mainly in eastern basin. Extremes: over 100°, high 40's west; over 100°, low 40's east.

Grain harvest continue east and west. Near complete in west and at various stages in east. Haying continued. Bartlett pear harvest underway in south. Peach and early apple harvests continued. Filberts are progressing. Vegetable crops coming in strong with hot weather. Snap beans, cucumbers, early potatoes and sweet corn harvests underway. Onion harvest to start soon. Ranges and pastures drying but feed supplies ample and livestock in good condition.

PENNSYLVANIA: Partly sunny, very warm and extremely humid with scattered showers and thunderstorms. Temperatures ranged 65 to 85° with extremes 51 to 90°. Rainfall 0.50 to 1.00 in. north and 1.00 to 5.00 in. south.

Fieldwork: 3 days suitable. Soil moisture adequate to surplus. Activities: Spraying, plowing; combining wheat, oats; baling straw; filling silos; digging potatoes; topping tobacco; seasonal fruit and vegetable harvest. Oats 40% combined, last year 80%. Potatoes 9%, last year 13%. Corn 20% dough, last year 33%. Fall plowing 9% same as 1977. Alfalfa second cut 68%, third cut 13%. Clo-tim second cut 43%, 62% last year. Hay quality mostly poor to fair. Feed from pastures average.

PUERTO RICO: Island rainfall 1.04 in. or 0.58 in. below normal. Temperatures about 81° coasts and 75° interior. Extremes: 95 and 54°.

SOUTH CAROLINA: Near normal temperatures, highest 90°. Rainfall above normal, heaviest in mountains with some flooding.

Soil moisture adequate. Fieldwork: 3 days suitable. Late corn fair; 65% mature, 83% last year, 55% average; harvested 7%, 20% last year. Cotton fair to good; 3% open bolls, 5% last year, 4% average. Soybeans bloom 62%, 74% last year, 60% average; setting pods 30%, 24% last year, 26% average. Tobacco 70% harvested, 73% last year, 83% average. Grapes 5% harvested, 33% average. Peaches 76% harvested, 93% average. Watermelons 90% harvested, 97% last year, 94% average.

SOUTH DAKOTA: Readings warmed; afternoon highs in 90's. Extremes: 45 and 106°. Little or no rainfall observed.

Grasshoppers more frequent in east, primarily alfalfa. Greenbugs not yet serious threat. Topsoil moisture generally short, critical in some areas of the northeast. Fieldwork: 6.1 days suitable. Oats 90% harvested, 100% 1977, 90% normal. Spring wheat 64% harvested, 93 1977, 79% normal. Barley 90% harvested, 100% 1977, 100% normal. Rye 98% harvested, 100% 1977, 100% normal. Flax 7% harvested, 39% 1977, 29% normal. Soybeans 70% podded, 82% 1977, 76% normal. Sorghum 62% headed, 90% 1977, 62% normal; 5% showing color, 23% 1977, 0% normal. Corn 20% in dough, 72% 1977, 21% normal; 6% dented, 19% 1977, 18% normal. Alfalfa 75% harvested 2 time, 92% 1977, 88% normal.

TENNESSEE: Rain most days; amounts averaged 1.00 in., some areas received 4.00 in. Temperatures 1 to 3° below normal. High's upper 80's, lows mid-60's.

Fieldwork: 3.6 days suitable. Soil moisture short to adequate. Corn dough stage 82%, 1977 85%, average 72%; dent stage 53%, 1977 55%, average 37%; small amount mature. Cotton setting bolls 98%, 1977 97%, average 84%; open bolls 1%, 1977 10%, average 1%. Soybeans 88% blooming, 1977 92%, average 76%; setting pods 45%, 1977 69%, average 34%. Burley tobacco topped 37%, 1977 70%. Burley harvested 4%, 1977 20%, average 9%. Haying active. Bollworm populations increasing. Controls underway. Cattle good condition. Pastures fair.

TEXAS: Showers, thunderstorms midweek over Panhandle, North, East Texas. Scattered showers, thunderstorms persisted rest of week as moist, unstable air remained. Rainfall near normal far west and along upper Gulf Coast. Rainfall above normal northern Panhandle, below normal elsewhere. Temperatures from 81° Panhandle, to 86° northeast; near normal most of State except northern Panhandle northeast Texas where below normal.

Grain sorghum harvest continued southern Low Plains; nearing completion Blacklands: 60% harvested, 54% last year, 48% average. Dryland sorghum High Plains suffers from lack moisture; irrigated sorghum good condition. Corn harvest full swing Blacklands; nearing completion Valley; 22% harvested, 10% last year, average 13%. Most corn on northern High Plains approaching dent stage. Spraying corn borers, mites on High Plains. Cotton harvest northward into central Blacklands; 7% harvested, 4% last year, average 4%. Dryland cotton some areas High, Low Plains received beneficial showers. Bollworm infestations light to moderate on High Plains. Rice harvest progress rapid along upper Gulf Coast; 70% harvested, 74% last year, average 72%. Peanut harvest active south; 6% harvested, 2% last year, average 6%. Peanut stands Cross-Timbers. Blacklands improved from recent rains. Soybeans upper Gulf Coast good condition; crop in east stressed. Irrigated soybeans northern High Plains good progress. Hay harvest active. Recent rainfall promoted additional growth.

Land preparation fall vegetables active. Planting fall cucumbers underway. Harvest of squash, peas, tomatoes, melons, potatoes, cucumbers continue. Cooler weather and scattered rainfall helped recent plantings. Pecans east, north central entering water stage; in many areas, slow developing due to dry conditions. In dry areas, some shedding still occurring.

Recent rains improved range, pasture conditions. Pastures greening up; starting to recover from drought. Armyworm, grasshopper damage parts east. Livestock fair to good condition. Ranchers culled herds some areas because poor grazing.

UTAH: Precipitation latter part of week. Flooding and hail damage some areas. Cooler temperatures following storm.

Soil moisture nonirrigated crop and rangeland before storm very short. Range feed poor. Dryland winter wheat harvest 95% complete; irrigated 80% complete. Spring grain harvest 60% complete. Field corn 74% silk stage and 14% milk stage.

VIRGINIA: Temperatures near to slightly above normal. Extremes: 93 and 53°. Rainfall heavy averaging 2.00 in. with daily showers and thunderstorms.

Topsoil moisture adequate to surplus. Fieldwork: 2.8 days suitable. Tobacco Harvests: Flue-cured 9%, 16% 1977, 22% average; fire-cured 1%, 9% 1977, 6% average; sun, burley started. Corn, soybeans, peanuts, tobacco, pastures, hay good to excellent. Nitrogen, minerals leached from eastern peanut fields. Grasshoppers heavy in east, central grassland. Activities: Hay baling, tobacco harvests, pesticide application.

WASHINGTON: West: Temperatures 3 to 5° above normal. Precipitation 0.20 in. below normal.

Active harvest of cucumber, cauliflower, carrots, bush beans, sweet corn and green peas. High temperatures and dry conditions promote extreme fire danger.

East: Temperatures 5° above normal. No precipitation.

Bartlett pear harvest beginning. Peach harvest continues. Norgold potato harvest near completion; early Russet harvest to begin next week. Weather perfect for grain harvest. Some early areas finished. High fire danger.

WEST VIRGINIA: Temperatures near normal and precipitation above normal.

Fieldwork: 2.5 days suitable. Soil moisture surplus. Major activities: Haying, pasture clipping. Haying 2d cutting 39% complete, 50% 1977, 42% average. Oats 68% complete, 75% average. Potatoes 15% complete, 23% 1977, 19% average. Pasture, all crops good.

WISCONSIN: Temperatures near normal. Extremes: 97 and 36°. Highs mostly 80's, lows 50's and 60's except 40's 9th and 10th after passage of cold front. Slow increase temperatures and humidity weekend as highs in 90's 13th. Rainfall little or none except 0.50 in. southeast 8th.

Harvesting rapid in dry weather. Fieldwork: 7 days suitable. Oats harvest 45% done, 1977, normal 45%. Straw being baled, adequate supply. Second crop hay 70% harvested, 1977 90%, normal 55%. Some farmers in north just finished first crop. Pasture conditions above normal but showing signs of dryness. Early corn continues to look good, a little starting to dent. Late corn needs favorable August and September weather to mature for grain. Corn 25% in dough, 1977 65%, normal 20%. Rain needed for ear fill. Soybeans look good but also need rain for pod development. Topsoil moisture short to adequate. Early tobacco being topped. Harvest of early potatoes active. Sweet corn harvest underway. Cherry harvest near end. Early apples being picked. Cranberry crop looking good.

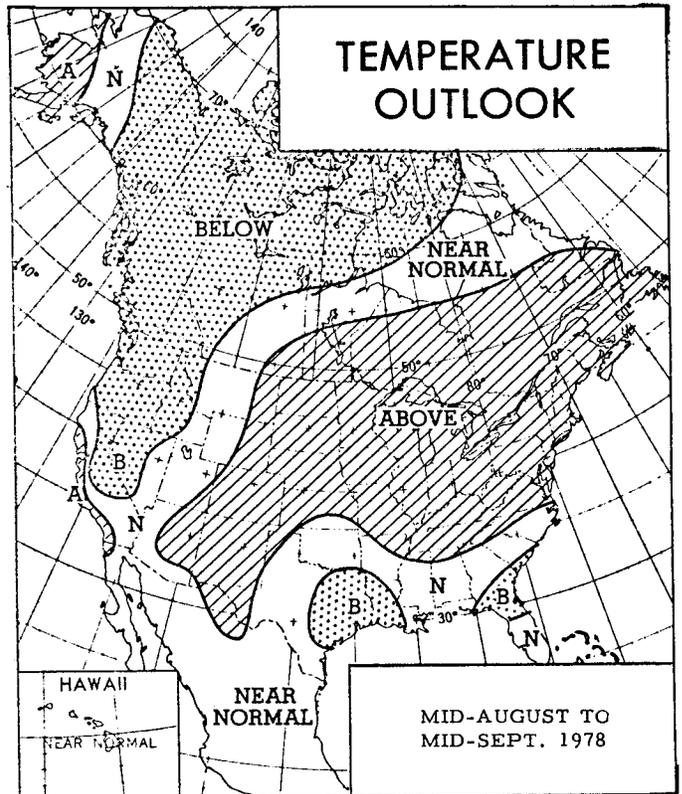
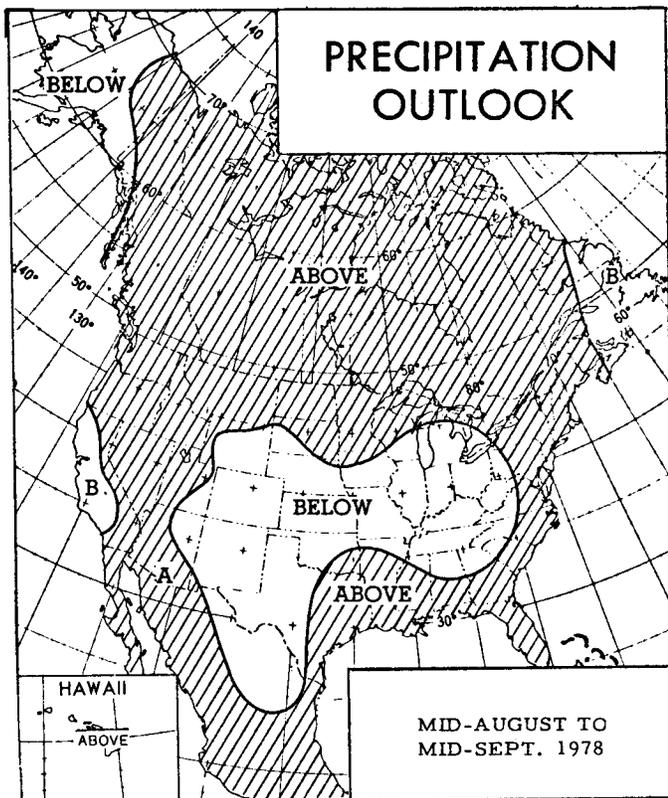
WYOMING: Precipitation below average ranging from 0.01 in. to none. Temperatures seasonal norm, none departing more than 5° from norm. Maximum temperatures mostly in upper 80's to 90's. Minimums upper 30's to mid-50's.

Topsoil moisture short. Winter wheat 96% mature, harvest 79% complete. Spring wheat 79%

turning color, 49% mature, 25% harvested. Barley 88% turning color, 53% mature, 20% harvested. Oats 75% turning color, 39% mature, 17% harvested. Second cutting alfalfa 33% complete; 72% other hay harvested. Row crops fair to mostly good

condition. Corn 66% tasseled, 36% silked. Dry beans 82% in bloom, 51% setting pods. Potatoes 86% in bloom. Hail damaged crops in some areas mostly light to moderate. Stock water adequate most areas.

### Average Monthly Weather Outlook



## World Weather and Crop Update

July Review-August 14 Update

USSR. Cool, wet weather dominated most of European USSR in July. Precipitation ranged well above normal over most areas west of the Volga River. Harvesting continued to expand northward and is now well underway in the central non-Black Soil region; wet weather which has continued into mid-August, however, has been hampering field activities in these areas. By August 8, small grains and pulses for the country as a whole had been swathed on 39.5 million hectares with threshing completed on 27 million hectares. Mid-August prospects for the spring wheat crop in western Siberia and northern Kazakhstan continued to be favorable in most of the principal growing areas. Estimated soil moisture in most areas was well above normal while timely rains fell in the first half of August. Harvesting of spring wheat just began in the more southerly areas, but the main harvest will not commence until later in the month. Weather during harvest will be crucial in determining both quantity and quality of the crop.

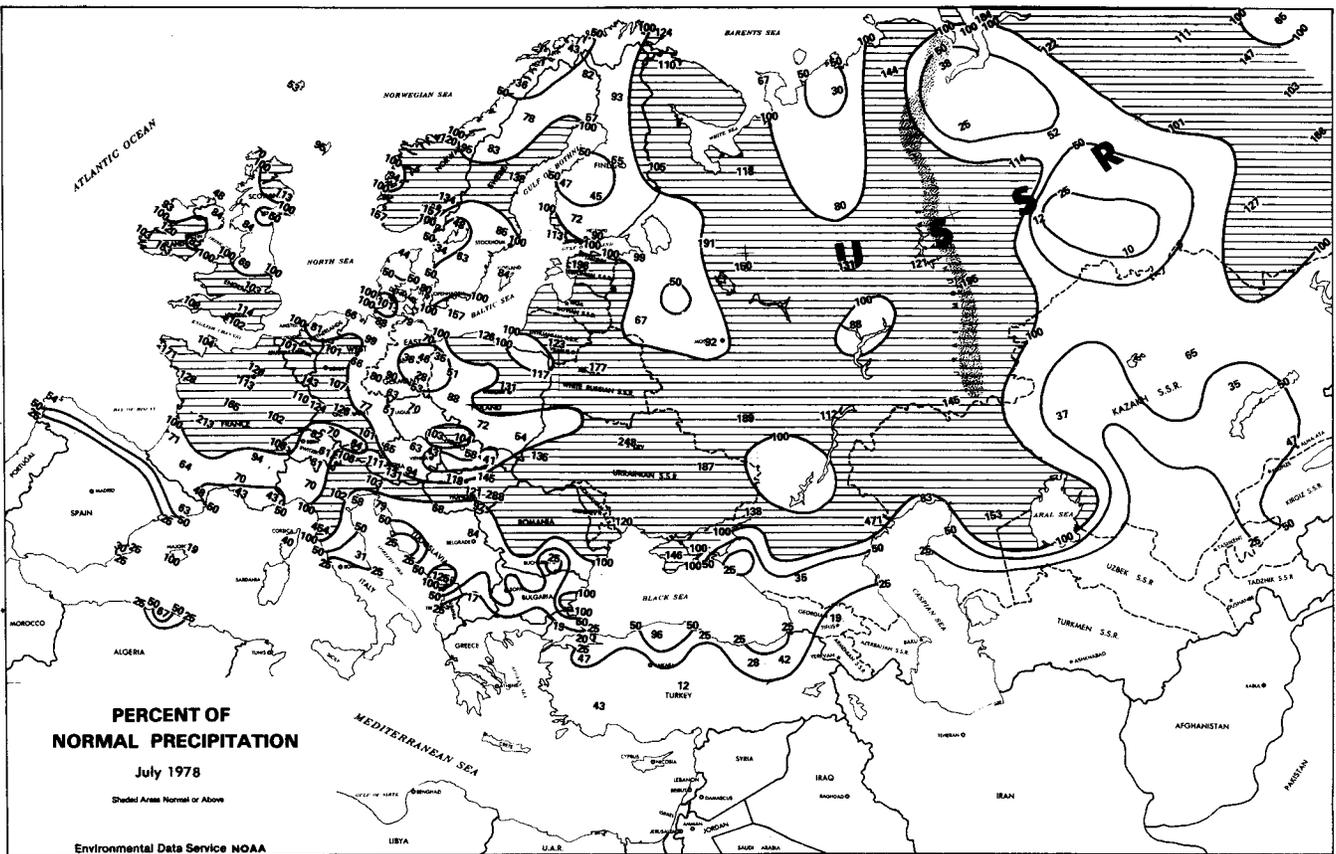
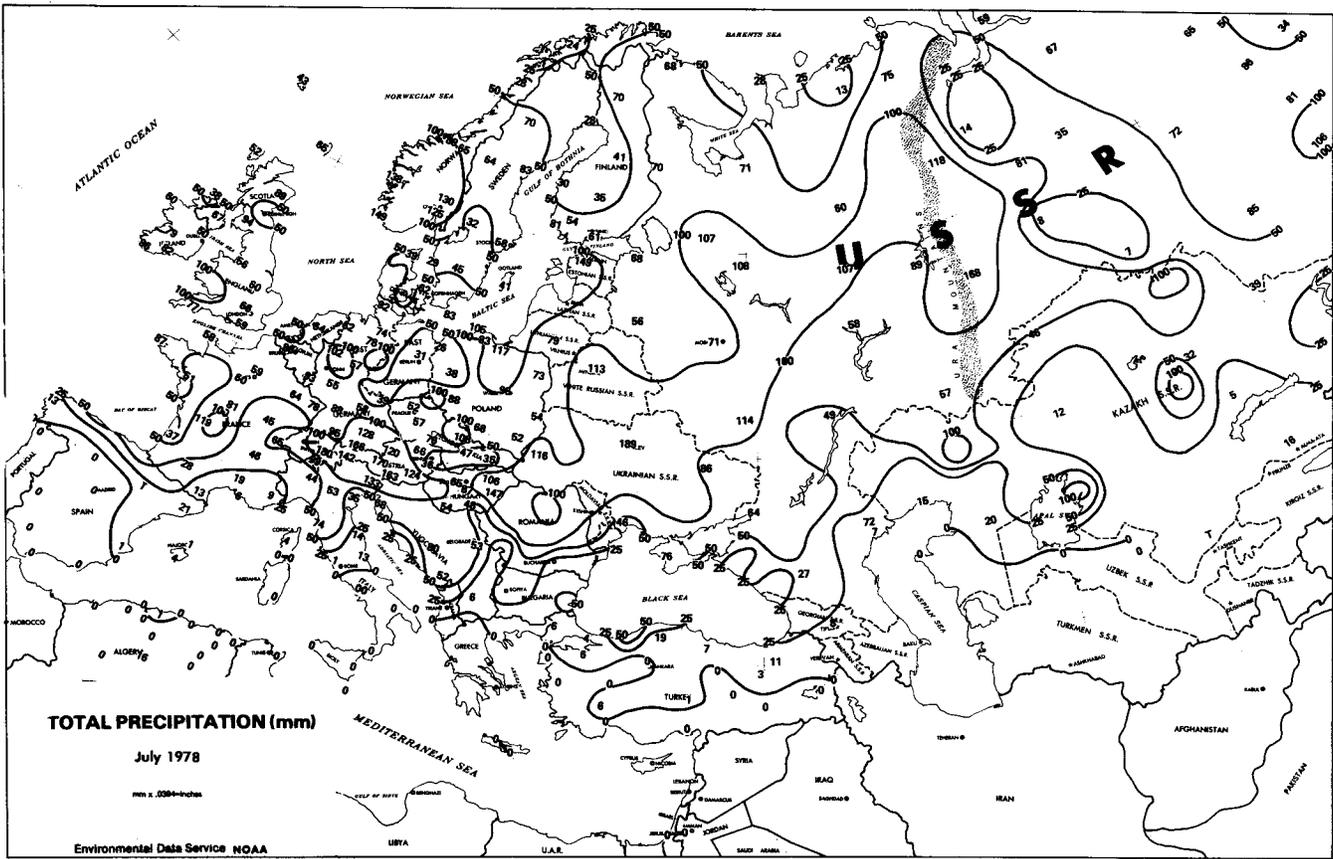
ASIA. July precipitation passed well above normal over the important agricultural regions of northern and northeastern China. With favorable moisture supplies in these coarse grain, cotton and soybean areas, crop prospects as of mid-August continued to be promising. However, rainfall was below normal in July over much of the rice-growing areas south of the Yangtze River. Pockets of drought were reported by the Chinese for some areas, especially in the south central and eastern sections, but excellent irrigation facilities in these areas would help mitigate moisture shortages. Dryland crops, however, may have been hurt. Heavy rains fell in early August and should improve prospects for the late harvest in these areas. In India, prospects continued favorable as a result of timely and abundant monsoon rains for fall-harvested crops which include mainly rice, millet, sorghum, corn, peanuts, and cotton. By August 9, cumulative rainfall since June 1 was normal or above over the entire country. Weather zones which received normal or above precipitation thus far generally account for about 96 percent of the total fall harvest of cereals. Below-normal precipitation during the past three to four weeks in Gujarat, Orissa, and central Maharashtra, however, could hinder non-irrigated crops in these regions if adequate rainfall is not received soon.

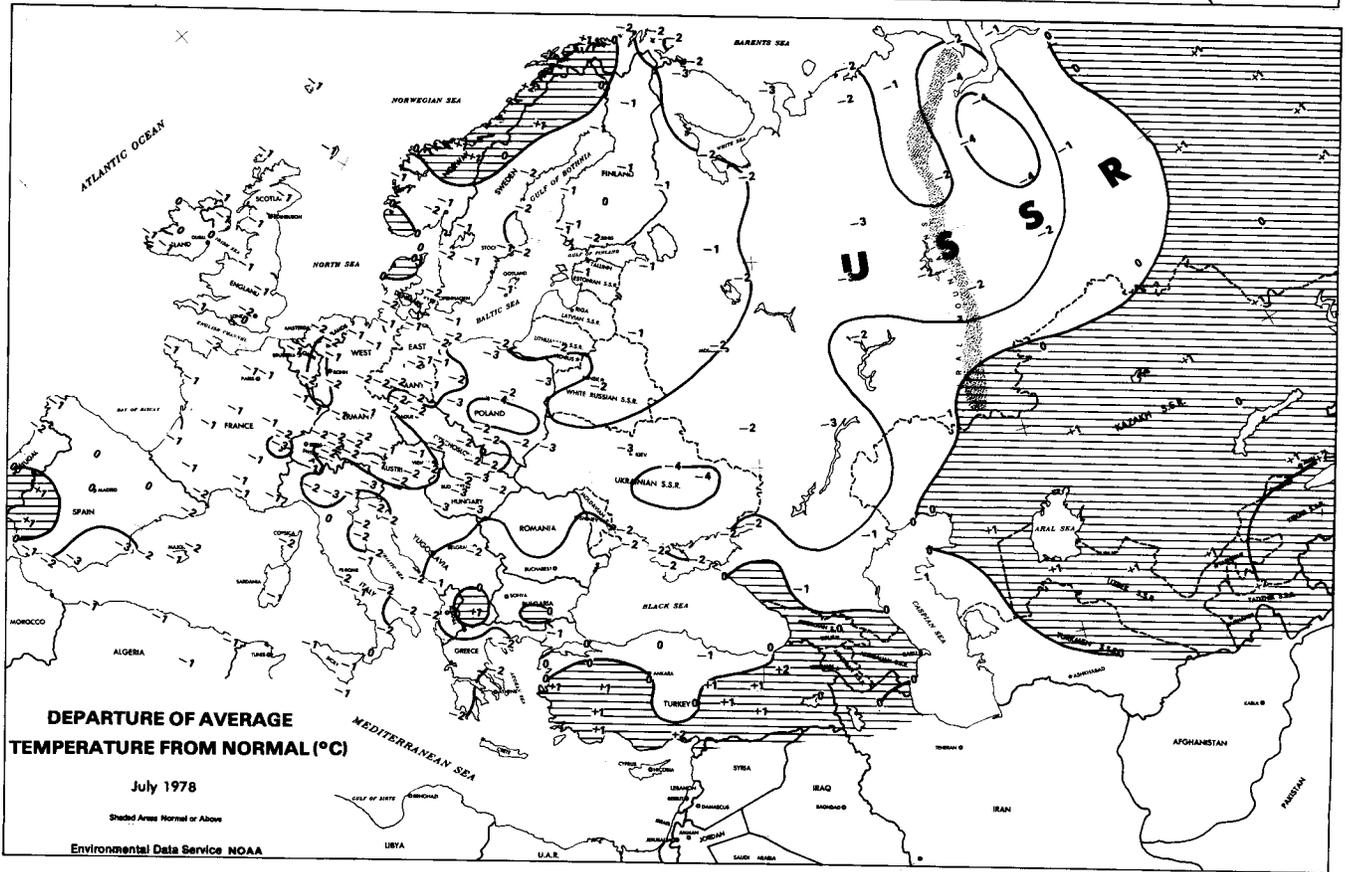
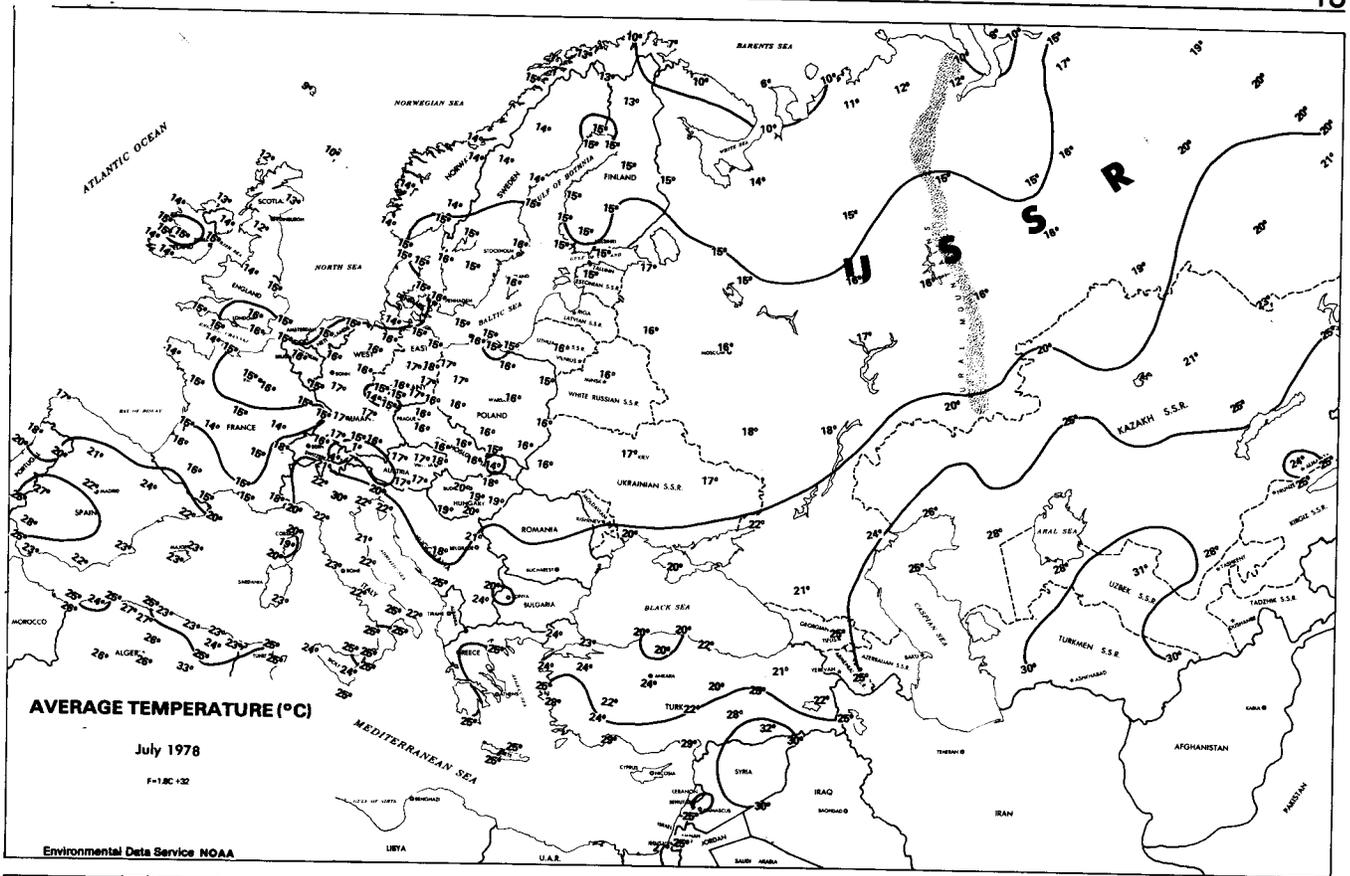
AUSTRALIA. Crop prospects throughout the principal grain growing sections were boosted by above-normal rainfall in July. Planting of cereals was virtually completed by mid-August. Although soil moisture and water storage remained low in some areas, especially western Australia, ample rains during June and July generally eliminated the moisture deficiencies that plagued much of the grain belt during the past year.

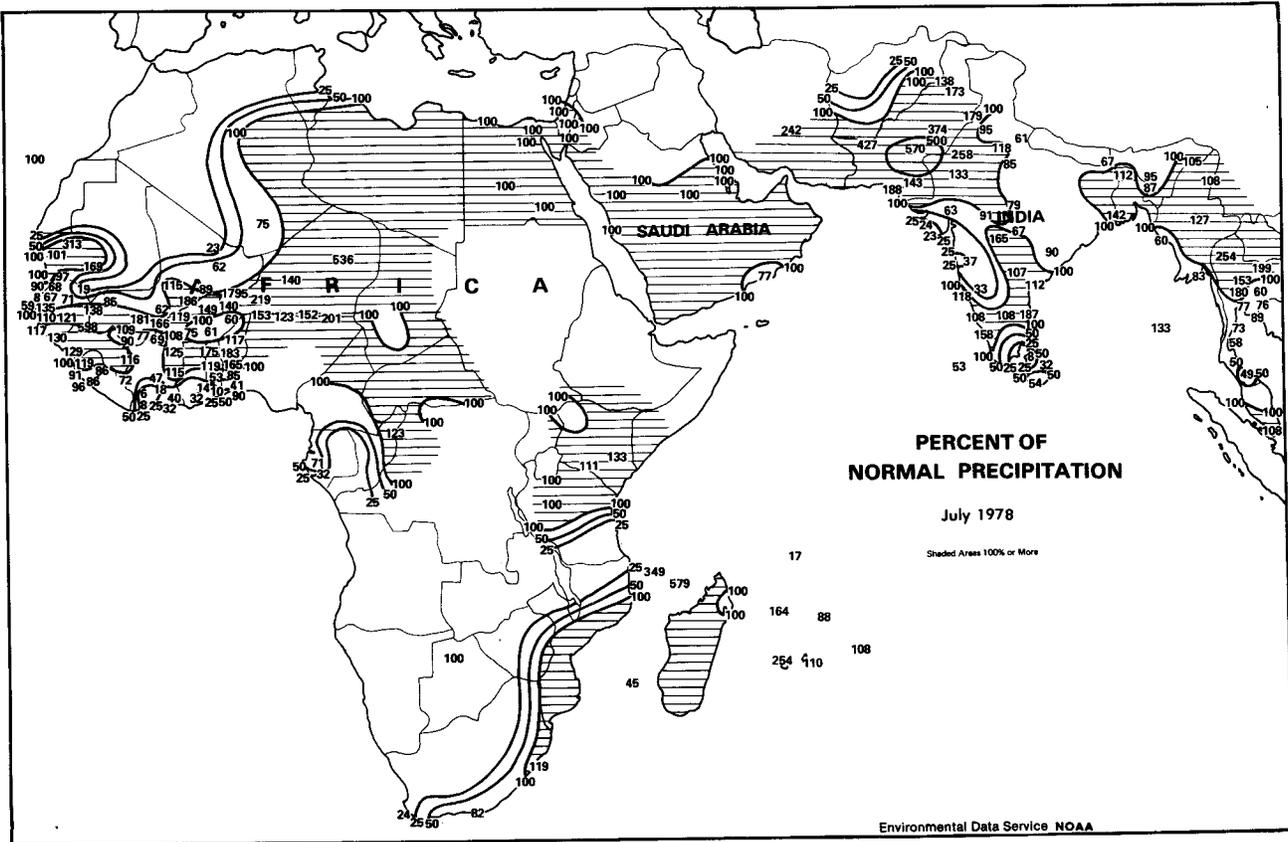
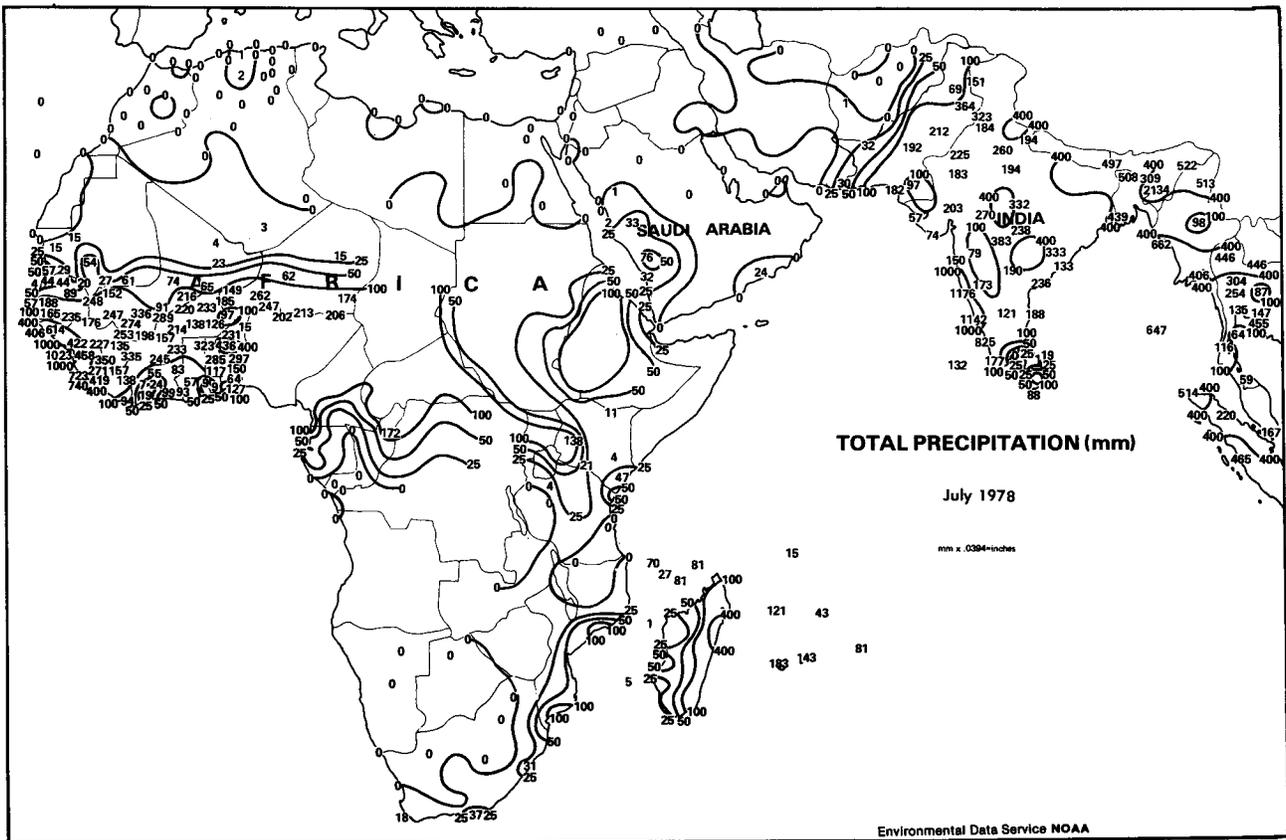
AFRICA. North Africa was essentially without rain in July, and little significant moisture was recorded, thus far, in August. In South Africa, showers brought some moisture to coastal areas, but the principal inland agricultural areas in the maize triangle received little significant precipitation in July; and August also has been dry. In central Africa, rainfall this year was generally near or somewhat below the long-term average. The situation this year is significantly better than in 1977 when accumulated rainfall reached only about two-thirds of the mean in many countries, and considerably lower in parts of the western Sahel. Despite heavy downpours that have occurred in August in most areas, more rain is still needed to eliminate the drought in south-central Mauritania near the Kiffa area, and also alleviate drought in extreme southern Chad and adjacent areas in Central African Republic. Drought also is reported for parts of southern Ivory Coast, southern Ghana, and southern Togo with the latter area noting a record dry July.

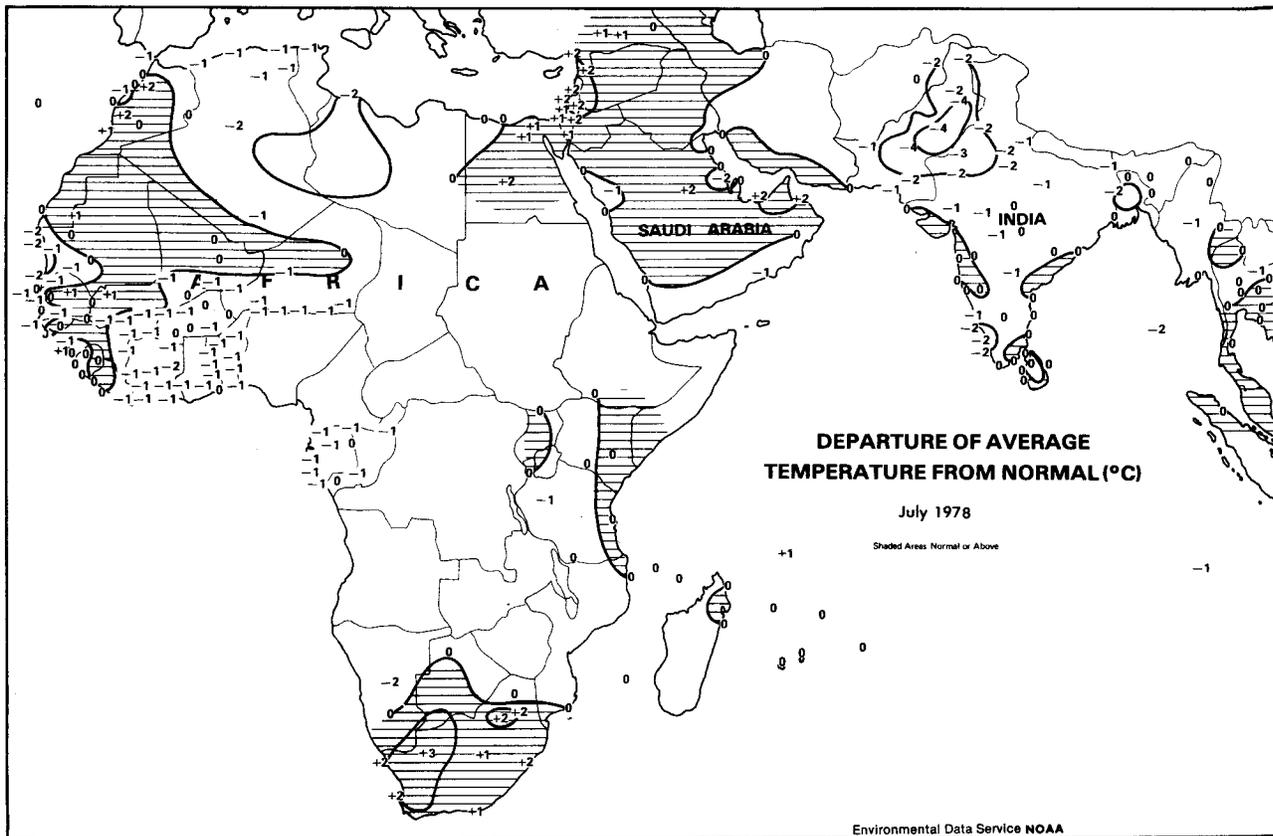
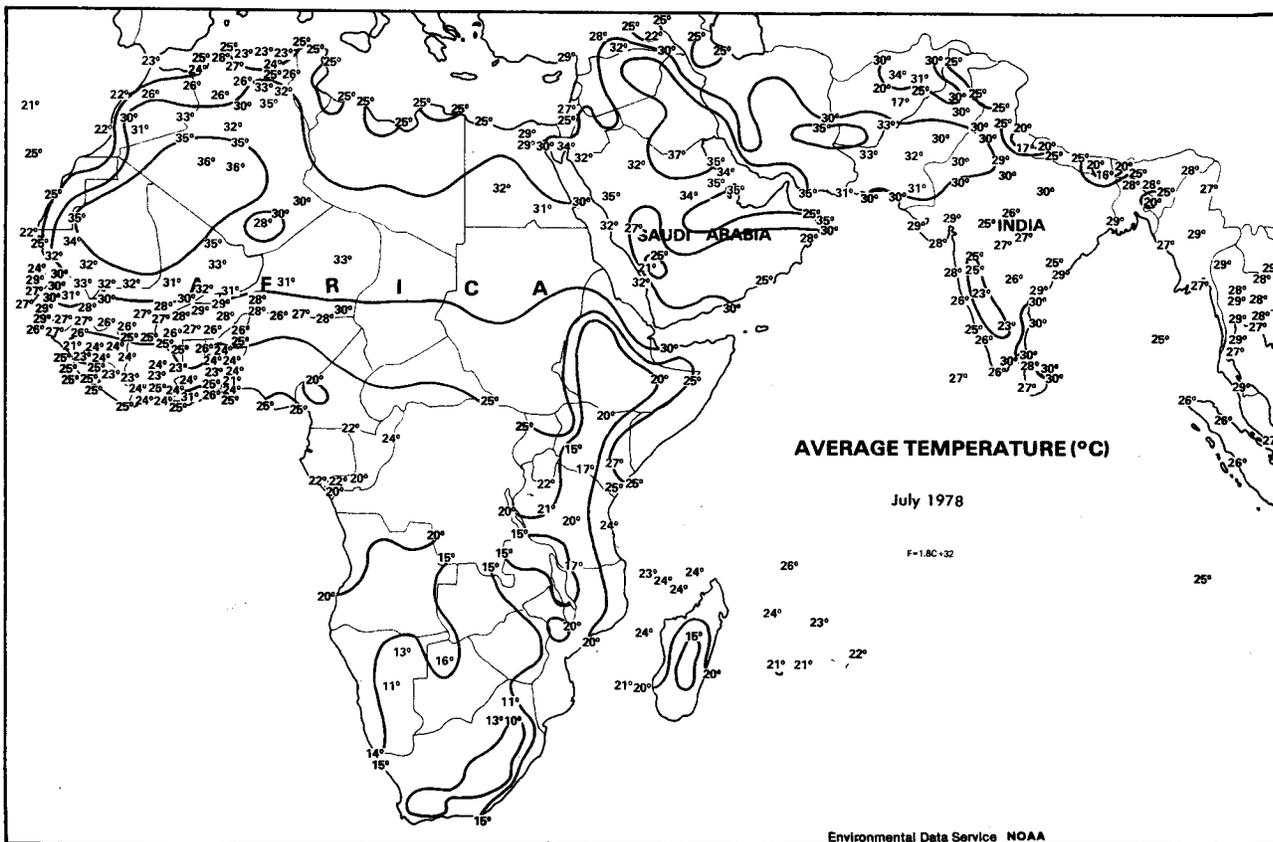
EUROPE. Cloudy, cool weather prevailed in July over much of western and eastern Europe, especially in the northern sections. Crops in many areas were hurt by the generally unseasonable weather which continued in varying degrees into August. An intense weather system in the week of August 7-13 brought heavy rains at the height of grain harvesting to Austria, East Germany, Poland, and Czechoslovakia. Temperatures over the southern half of Europe have been more summerlike, but precipitation has generally been below normal throughout Spain, Italy, and the Balkan countries. Turkey's July temperatures rated normal to above, but precipitation fell well below normal over the most important agricultural areas. Early August showers were confined to the Black Sea areas while the rest of the country stayed hot and dry.

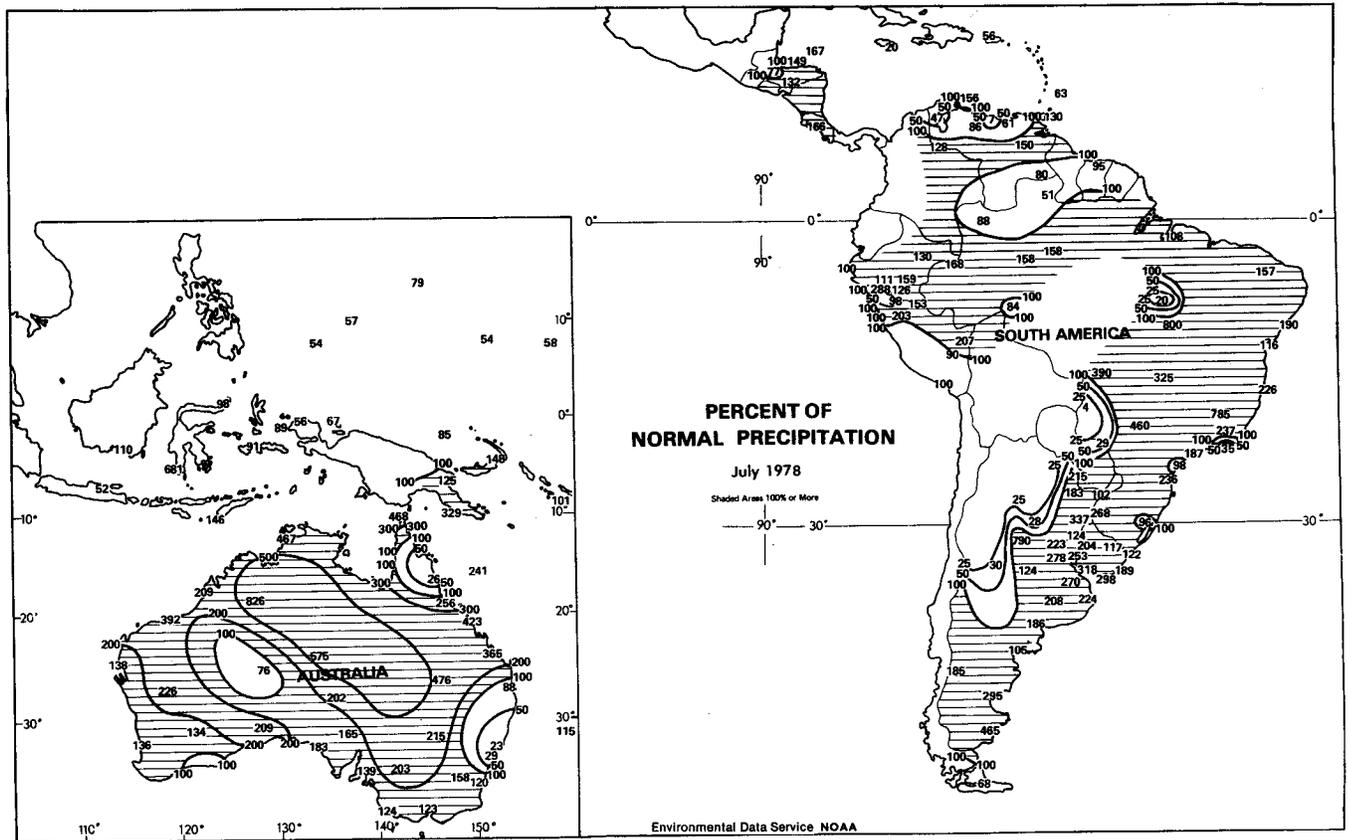
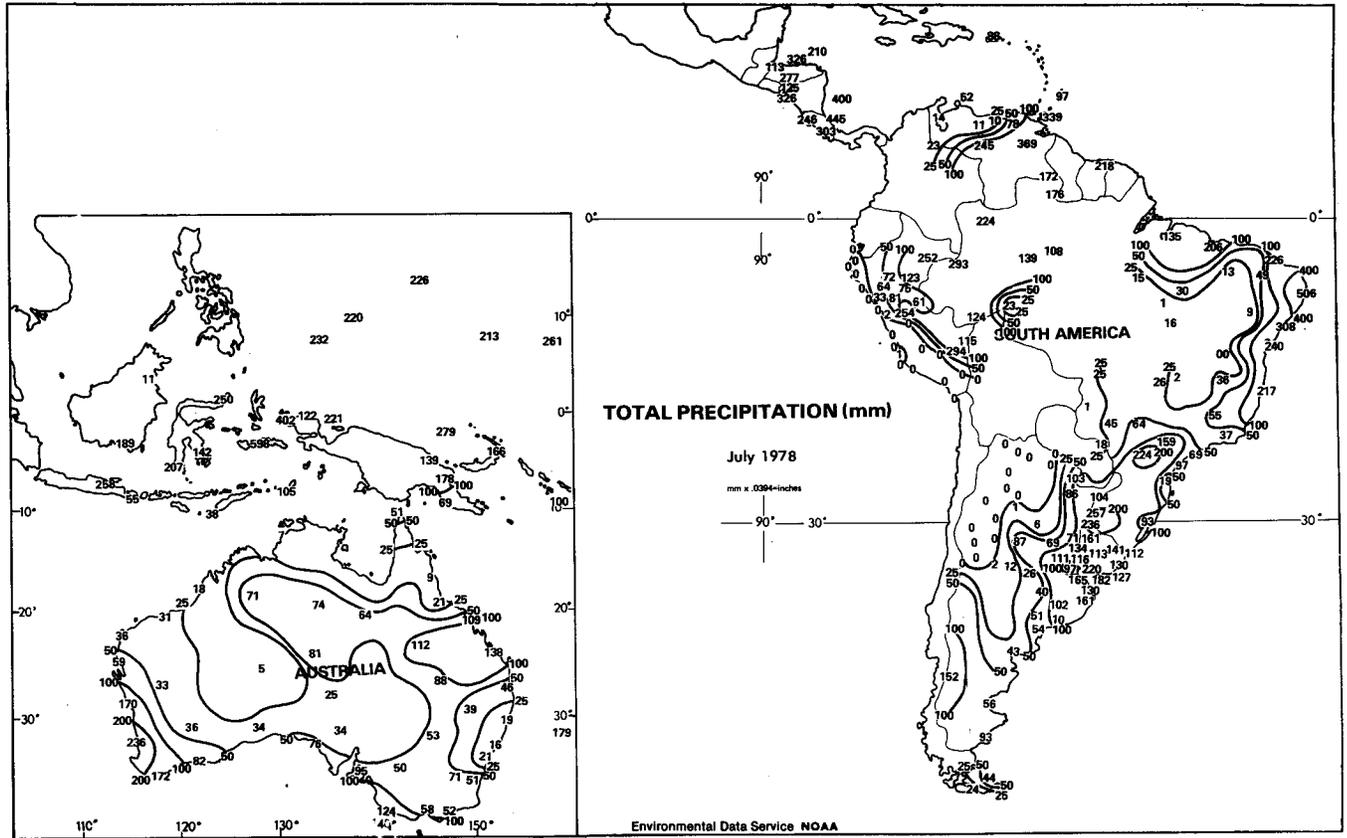
AMERICAS. July temperatures scored above normal throughout Brazil and Argentina. However, a mid-August (late winter) cold snap brought freezing temperatures into southern Brazil with frost unofficially reported in some coffee-growing areas. Damage, if any, to coffee trees is unknown at this time. Rainfall during July was generally above normal in the principal agricultural areas in both Argentina and Brazil. Excessive rains retarded sowing of grain in parts of Argentina, but conditions in August have favored fieldwork. In the Prairie Provinces of Canada, crop conditions as of mid-August were generally good. However, a shortage of moisture reduced crop prospects in northern Alberta. Combining of fall rye is general while swathing of spring cereals began in most districts. Hay and pasture conditions are generally good.

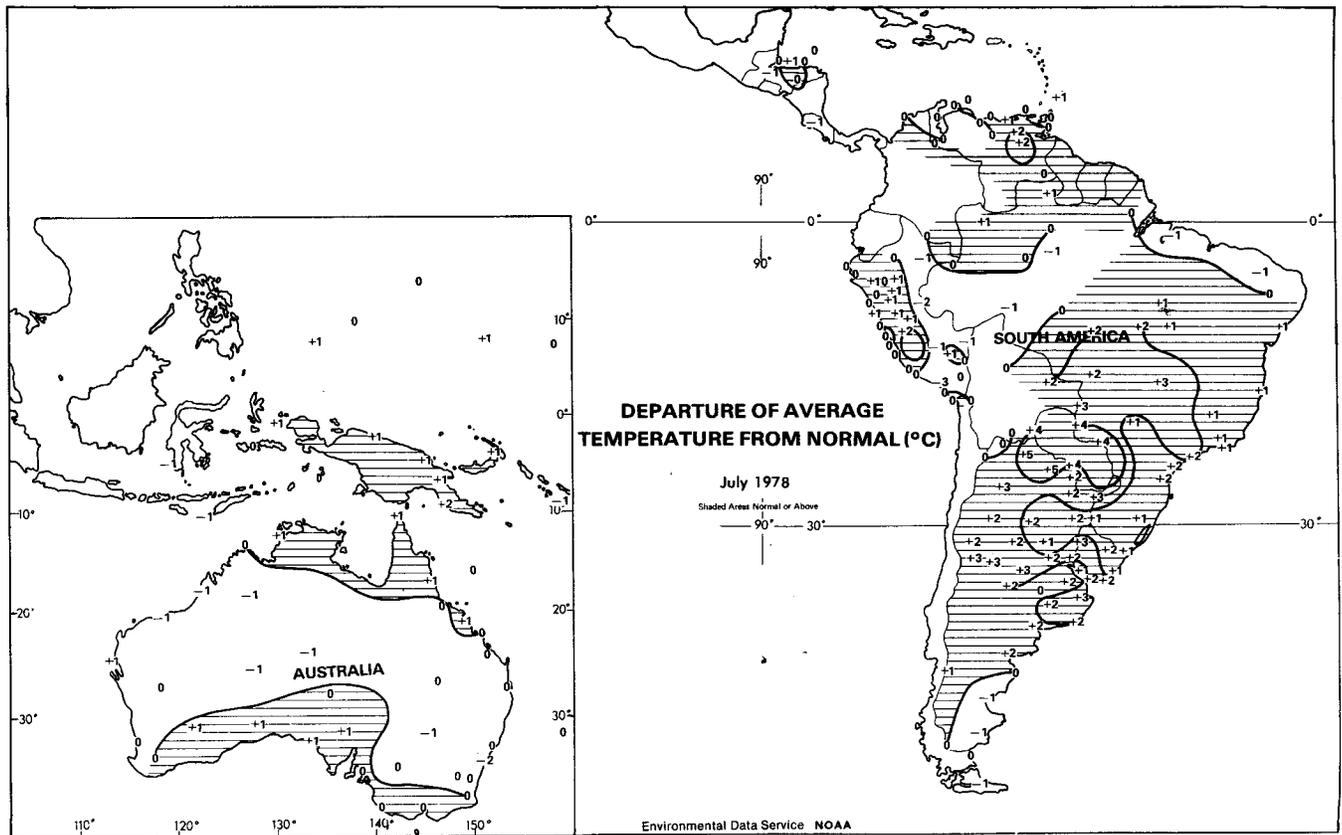
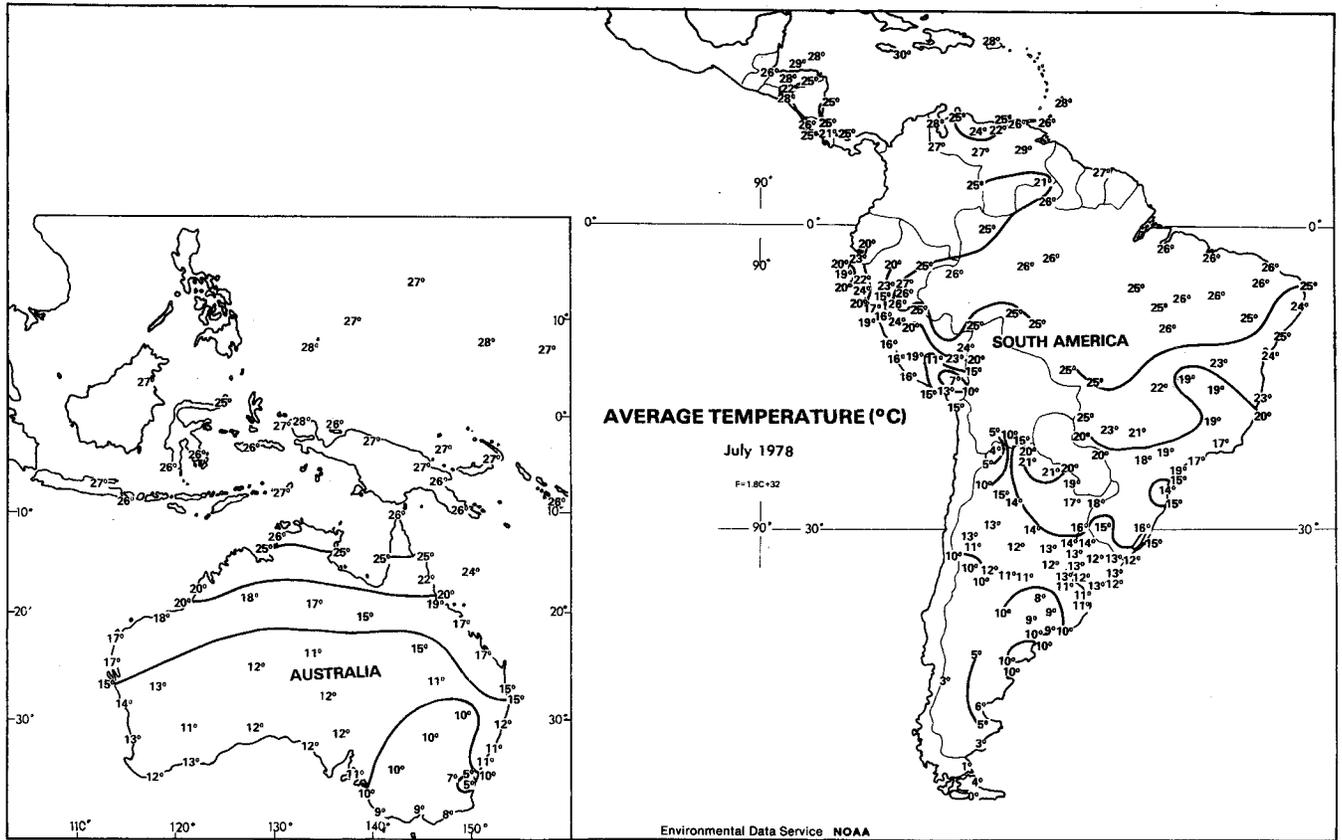




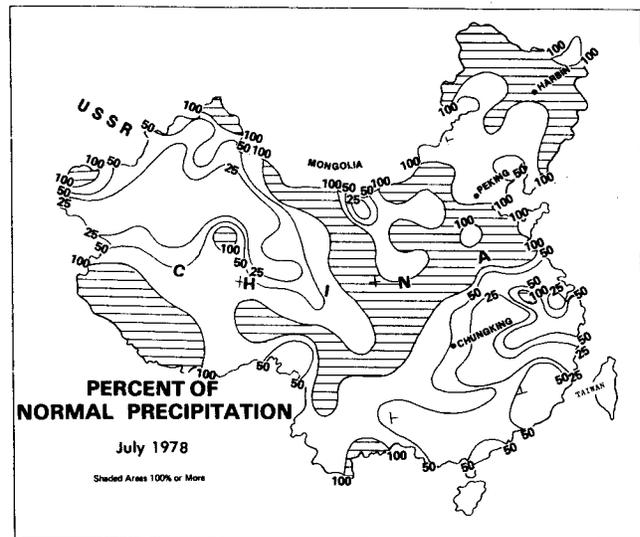
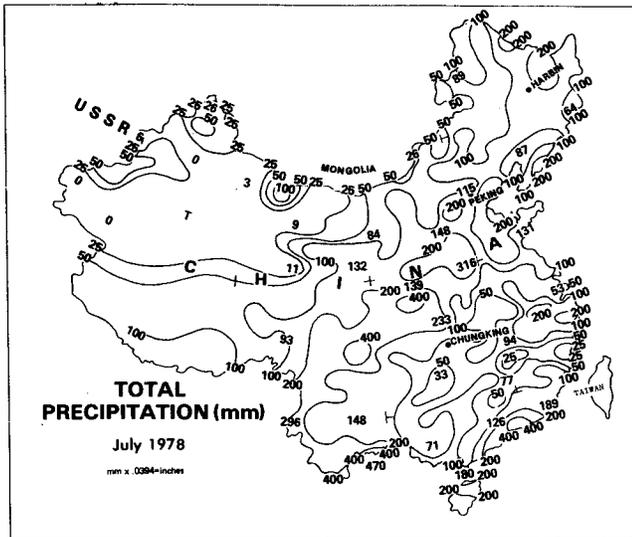








China Precipitation

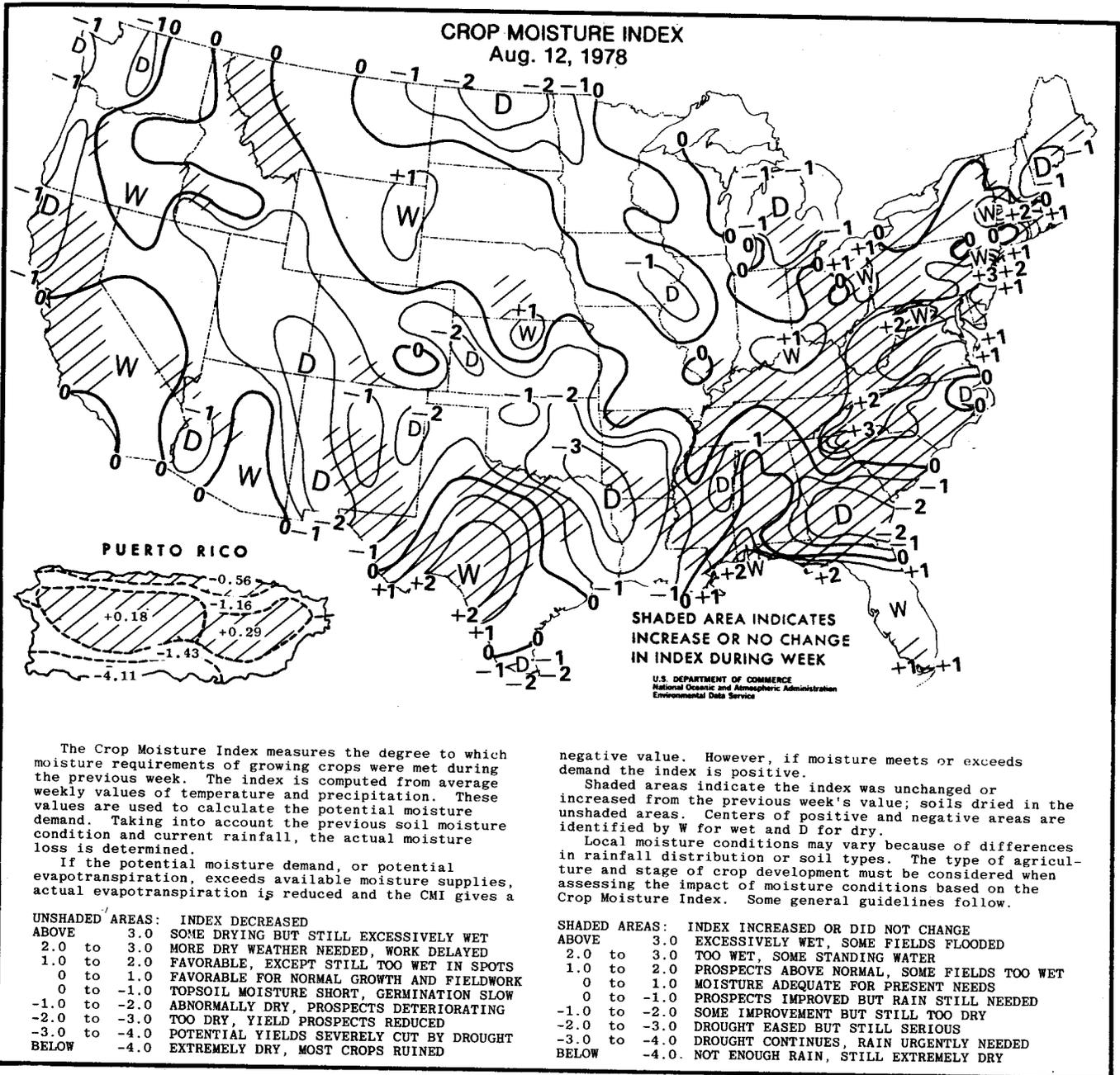


Heating Degree Days (Base 65° F.)

July 1978

ALA. Birmingham . . . . .	0	MAINE, Caribou . . . . .	53	OKLA. Okla. City . . . . .	0
Mobile . . . . .	0	Portland . . . . .	38	Tulsa . . . . .	0
Montgomery . . . . .	0	MD. Baltimore . . . . .	0	OREG. Astoria . . . . .	125
ALASKA, Anchorage . . . . .	193	MASS. Boston . . . . .	11	Burns U. . . . .	34
Barrow . . . . .	772	Chatham . . . . .	35	Medford . . . . .	4
Fairbanks . . . . .	65	MICH. Alpena . . . . .	83	Pendleton . . . . .	7
Juneau . . . . .	298	Detroit . . . . .	17	Portland . . . . .	29
Nome . . . . .	321	Flint . . . . .	17	Salem . . . . .	17
ARIZ. Flagstaff . . . . .	33	Grand Rapids . . . . .	15	PA. Allentown . . . . .	9
Phoenix . . . . .	0	Houghton Lake . . . . .	79	Erie . . . . .	15
Tucson . . . . .	0	Lansing . . . . .	24	Harrisburg . . . . .	14
Winslow . . . . .	0	Marquette U. . . . .	64	Philadelphia . . . . .	5
Yuma . . . . .	0	S. Ste. Marie . . . . .	112	Pittsburgh . . . . .	4
ARK. Fort Smith . . . . .	0	MINN. Duluth . . . . .	71	Scranton . . . . .	38
Little Rock . . . . .	0	Internatl Falls . . . . .	95	R. I. Providence . . . . .	8
CALIF. Bakersfield . . . . .	0	Minneapolis . . . . .	5	S. C. Charleston . . . . .	0
Eureka U. . . . .	265	Rochester . . . . .	11	Columbia . . . . .	0
Fresno . . . . .	0	St. Cloud . . . . .	31	Greenville . . . . .	0
Los Angeles U. . . . .	0	MISS. Jackson . . . . .	0	S. DAK. Aberdeen . . . . .	13
Red Bluff . . . . .	0	Meridian . . . . .	0	Huron . . . . .	12
Stockton . . . . .	0	Vicksburg U. . . . .	--	Rapid City . . . . .	17
San Diego . . . . .	0	MO. Columbia . . . . .	0	Sioux Falls . . . . .	11
San Francisco . . . . .	111	Kansas City . . . . .	0	TENN. Chattanooga . . . . .	0
COLO. Denver . . . . .	0	St. Louis . . . . .	0	Knoxville . . . . .	0
Grand Junction . . . . .	0	Springfield . . . . .	0	Memphis . . . . .	0
Fueblo . . . . .	0	MONT. Billings . . . . .	41	Nashville . . . . .	0
CONN. Bridgeport . . . . .	4	Glasgow . . . . .	42	TEX. Abilene . . . . .	0
Hartford . . . . .	9	Great Falls . . . . .	54	Amarillo . . . . .	0
D. C. Washington . . . . .	0	Havre . . . . .	40	Austin . . . . .	0
FLA. Apalachicola . . . . .	0	Helena . . . . .	32	Beaumont . . . . .	0
Ft. Myers . . . . .	0	Kalispell . . . . .	60	Brownsville . . . . .	0
Jacksonville . . . . .	0	Miles City . . . . .	14	Corpus Christi . . . . .	0
Key West . . . . .	0	Missoula . . . . .	87	Dallas . . . . .	--
Lakeland U. . . . .	0	NEBR. Grand Island . . . . .	0	Del Rio . . . . .	0
Miami . . . . .	0	Lincoln . . . . .	0	El Paso . . . . .	0
Orlando . . . . .	0	Norfolk . . . . .	1	Fort Worth . . . . .	0
Daytona Beach . . . . .	0	North Platte . . . . .	5	Galveston U. . . . .	0
Tallahassee . . . . .	0	Osama . . . . .	0	Houston . . . . .	0
Tampa . . . . .	0	Valentine . . . . .	4	Lubbock . . . . .	0
GA. Atlanta . . . . .	0	NEV. Ely . . . . .	43	Midland . . . . .	0
Augusta . . . . .	0	Las Vegas . . . . .	0	San Angelo . . . . .	0
Macon . . . . .	0	Reno . . . . .	21	San Antonio . . . . .	0
Savannah . . . . .	0	Winemucca . . . . .	21	Victoria . . . . .	0
IDARO. Boise . . . . .	5	N. H. Concord . . . . .	45	Waco . . . . .	0
Lewiston . . . . .	6	N. J. Atlantic City . . . . .	6	Wichita Falls . . . . .	0
Pocatello . . . . .	10	Trenton U. . . . .	7	UTAH, Milford . . . . .	1
ILL. Cairo U. . . . .	0	N. MEX. Albuquerque . . . . .	0	Salt Lake City . . . . .	0
Chicago . . . . .	4	Roswell . . . . .	0	VT. Burlington . . . . .	49
Moline . . . . .	1	N. Y. Albany . . . . .	43	VA. Lynchburg . . . . .	0
Peoria . . . . .	4	Binghamton . . . . .	53	Norfolk . . . . .	0
Rockford . . . . .	2	Buffalo . . . . .	14	Richmond . . . . .	0
Springfield . . . . .	0	New York . . . . .	5	Roanoke . . . . .	0
IND. Evansville . . . . .	0	Rochester . . . . .	5	WASH. Colville . . . . .	19
Fort Wayne . . . . .	1	Syracuse . . . . .	10	Omak . . . . .	170
Indianapolis . . . . .	0	N. C. Asheville . . . . .	0	Quillayute . . . . .	44
South Bend . . . . .	5	Charlotte . . . . .	0	Seattle-Tacoma . . . . .	37
IOWA, Burlington . . . . .	0	Greensboro . . . . .	0	Spokane . . . . .	5
Des Moines . . . . .	0	Hatteras R. . . . .	0	Walla Walla U. . . . .	6
Dubuque . . . . .	3	Raleigh . . . . .	0	Yakima . . . . .	14
Sioux City . . . . .	1	Wilmington . . . . .	0	W. VA. Beckley . . . . .	0
KANS. Concordia . . . . .	0	N. DAK. Bismarck . . . . .	18	Charleston . . . . .	0
Dodge City . . . . .	0	Williston U. . . . .	21	Burlington . . . . .	0
Goodland . . . . .	0	OHIO, Akron-Canton . . . . .	9	Parkersburg U. . . . .	0
Topeka . . . . .	0	Cincinnati U. . . . .	0	WIS. Green Bay . . . . .	19
Wichita . . . . .	0	Cleveland . . . . .	7	Madison . . . . .	21
KY. Lexington . . . . .	0	Columbus . . . . .	0	Milwaukee . . . . .	15
Louisville . . . . .	0	Dayton . . . . .	1	WYO. Casper . . . . .	28
LA. Baton Rouge . . . . .	0	Toledo . . . . .	11	Cheyenne . . . . .	26
Lake Charles . . . . .	0	Youngstown . . . . .	31	Lander . . . . .	45
New Orleans . . . . .	0			Sheridan . . . . .	
Shreveport . . . . .	0				

Preliminary reports from airport locations, except those marked U for urban and R for rural.  
\*Estimated.



**IMMEDIATE - U. S. Weather Report**

This Report Will be Treated in All Respects as Letter Mail

**FIRST CLASS MAIL**

POSTAGE AND FEES PAID  
 U.S. DEPARTMENT OF COMMERCE

COM 210



**HARVESTING PROGRESS**

SPRING WHEAT  
 PERCENT OF ACREAGE HARVESTED  
 AS OF AUGUST 13

	1978	1977	AVG.
IDA	10	25	20
MINN	36	72	45
MONT	5	35	25
N DAK	20	44	23
S DAK	64	93	79
5 STATES	28	56	36

THESE 5 STATES PRODUCED  
 97% OF THE 1977 U.S. SPRING  
 WHEAT CROP-EXCLUDING DURUM.

