

WEEKLY WEATHER AND CROP BULLETIN

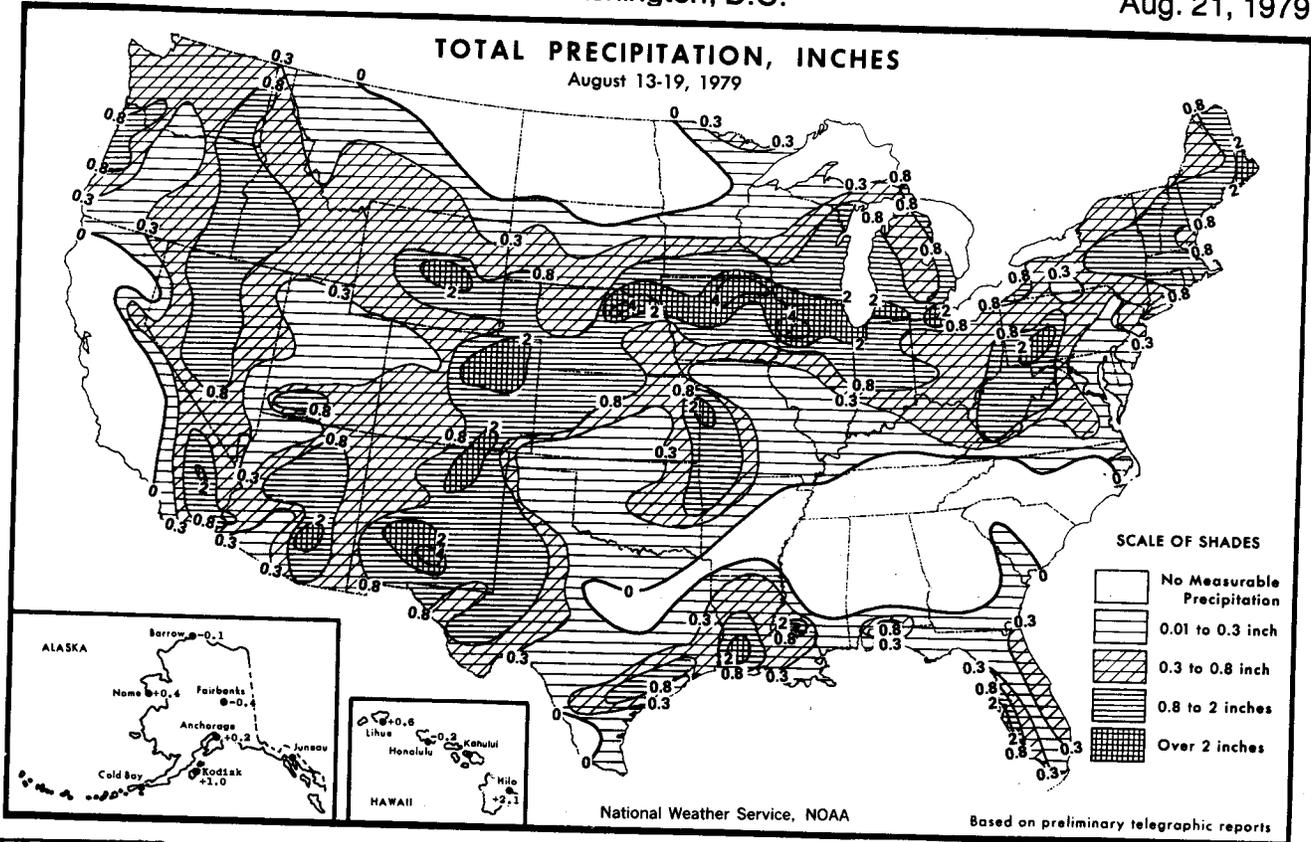
U.S. DEPARTMENT OF COMMERCE
National Weather Service, NOAA

U.S. DEPARTMENT OF AGRICULTURE
Economics, Statistics, and Cooperatives Service

Volume 66, No. 34

Washington, D.C.

Aug. 21, 1979



National Weather Summary

August 13 - 19

HIGHLIGHTS: Unusually heavy rain fell in the Southwest; the area of heavy showers extended from the Plateau Region to the Pacific Northwest and eastward through the Rockies to the Great Lakes and New England. The western mountain areas reported flash flooding. Some downpours in the Midwest and New England swelled waterways past their banks.

Many low-temperature records were set this cool week. The Plateau Region and central Rockies and western New England averaged about 10 degrees cooler than normal. The Midwest ranged 5 to 9 degrees below normal. Only the West Coast,

Northwest, and Peninsula Florida approached normal readings.

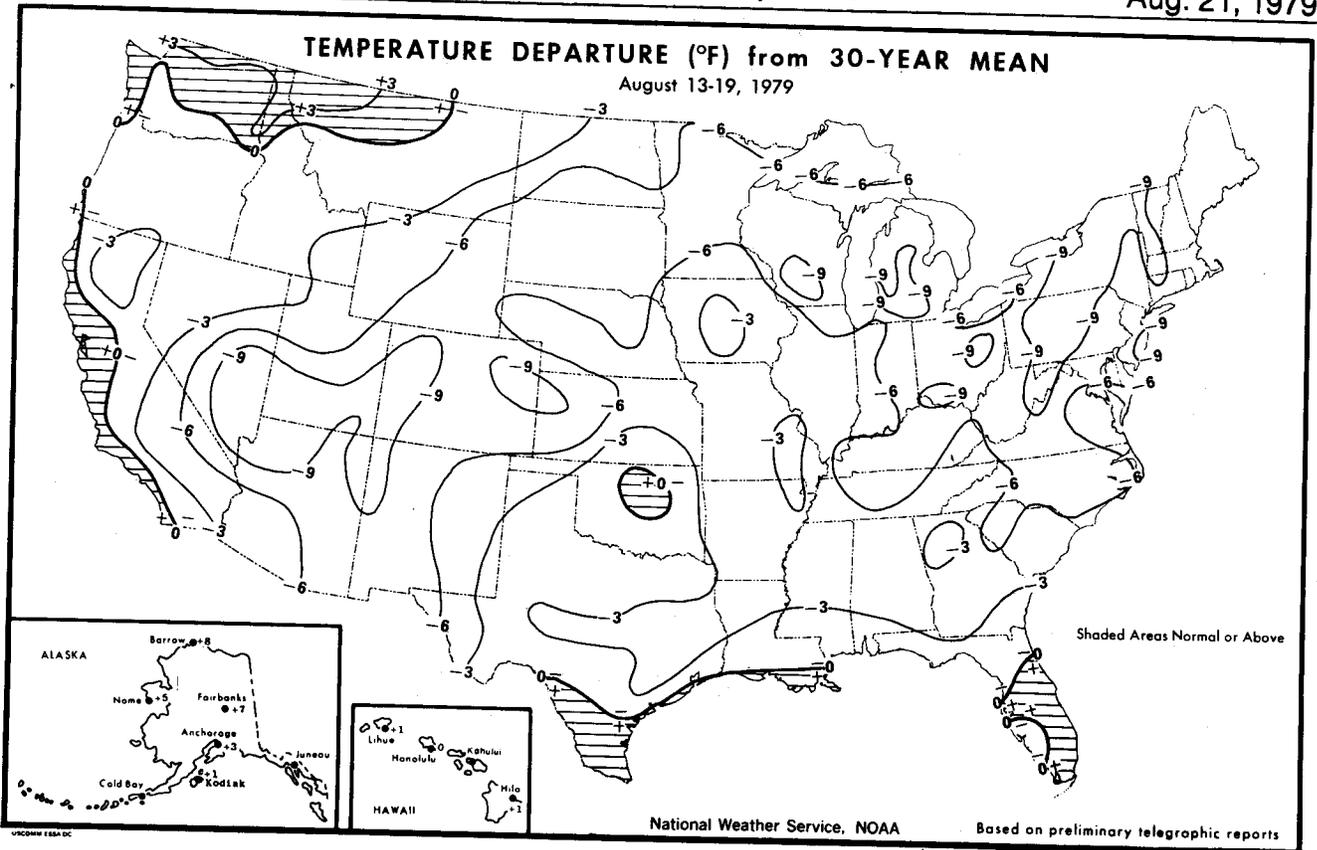
On Monday, showers were widely scattered across the Nation. Rain fell from the Pacific Northwest to the northern Rockies bringing welcome relief to some very dry areas; more than an inch fell in parts of Idaho.

Rain also dotted Texas and many East Coast States; more than a half-inch dampened Houston, and Eastport, eastern Maine, notched more than 2 inches.

Cool air had pushed past the Mississippi Valley dropping temperatures to record-low levels. A sampling of new marks from the Deep South to the Northeast showed 59° at Columbia, S.C., 49° at Roanoke, southwestern Virginia, and 46° at Buffalo, N.Y.

A cool, Canadian airmass edged over the northern tier of States and settled over the midlands on Tuesday.

Meantime, storms settled from southern Colorado across the Plains to the middle Mississippi Valley.



One and one-half inches of rain soaked Trinidad, southeastern Colorado, Marfa, western Texas, and Skidmore, northwestern Missouri.

While Charleston, S.C., set the only new low temperature mark in the East, the mercury plummeted to record readings in parts of the Plains and Midwest; for example, 34° at Bismarck, N.Dak., and Kansas City's 57°.

Thunderstorms, sometimes heavy, extended from the Southwest to Missouri on Wednesday. Oracle and Coolidge, in southern Arizona, received more than 2 inches. One to 2.25 inches of rain washed over several sections of New Mexico triggering flooding. Houston measured 2 inches, and Warrensburg, western Missouri, got an inch.

Readings dipped sharply from the Plains to Cincinnati to Buffalo. A dozen stations recorded their lowest maximum temperatures for the date. Kansas City, at 63°, noted its coldest August afternoon ever. A list of record low readings revealed 39° at Mason City, northern Iowa, 37° at Madison, Wisc., Indianapolis's 45°, and Cincinnati's 49°.

The cool airmass held its record-breaking grip over the eastern half of the Nation, while rains persisted in the Southwest on Thursday.

Two inches of rain soaked Barstow, southern California; and Yuma, southwestern Arizona, gathered 1.5 inches in less than an hour. A tornado touched down near Palm Springs, southern California.

The unseasonable cold forced more than three dozen temperature records from Wisconsin to Delaware. Several readings in the thirties chilled Michigan, and temperatures dropped to the forties as far south as southwestern Virginia.

Storms formed over the Southwest and Midwest on Friday. Rain, heavy at times, fell from Arizona to West Texas. To the north, Chicago collected nearly 3 inches of rain. In northern Iowa, Lester

and Tripoli each reported 3 inches, and Waverly tallied 4.2 inches.

Cool temperatures continued east of the Mississippi Valley. Once again dozens of records were set; West Virginia scored the Nations's low mark of 34°. Records included 61° at Huntsville, northern Alabama, 52° at Raleigh, N.C., Baltimore's 53°, and 45° at Hartford, Conn.

A frontal system stretched over the Midwest dumping heavy rains on several States. Five inches drenched central Nebraska near Taylor, and Antioch, northeastern Illinois. Waterways in Illinois and Iowa topped their banks. The rain ranged as far east as Ohio, where Toledo noted an inch and one-half. Large hail accompanied the rain at some points.

Showers also dotted the Plateau Region and Rockies; Colorado Springs, east central Colorado, managed nearly an inch.

The unseasonably cool air established records only over the country's southeastern quadrant. Records showed 58° at Augusta, eastern Georgia, 56° at Charleston, S.C., and the 56° at Hatteras, eastern North Carolina, undercut the 1902 low mark by eight.

On Sunday, a cold front reached from New York to the central Plains producing heavy rains.

The heaviest storms poured 7.5 inches on Covington, west central Indiana, and 6 inches on Latrobe, western Pennsylvania. One to 3 inches of rain soaked Topeka, Houston, Kansas City, Moline, northwestern Illinois, and Paris, northern Kentucky. Hail pelted some areas, and twisters were observed in New Mexico, Iowa, and Illinois. Flash flooding created problems from Iowa to Kentucky.

The remnants of the cool, Canadian air sent the temperature to a record low 64° in Tallahassee, Fla.



National Agricultural Summary

August 13 - 19

HIGHLIGHTS: Subnormal temperatures slowed crop growth from the northern Great Plains through the Great Lakes States and into New England. Frost damaged some crops in extreme northern areas, but farmers were expected to divert some crops, such as corn, from grain to silage. Soil moisture rated adequate except in the Southeast and parts of the West. Precipitation improved soil moisture over many parts of the Pacific Coast and Mountain States. Farmers had 5 days or more suitable for fieldwork in much of the Nation. Farmers in the southern Plains and the Corn Belt plowed and prepared land for seeding fall grains. Grasslands east of the Rockies rated good except for some dry stress in the South Atlantic States. Western rangeland conditions varied widely depending upon recent precipitation. Winter wheat harvest advanced to 97%, compared with 95% last year and the 96% average. Oats combining reached 65%, lagging 1978's 85% and the 87% average. Barley harvest stood at 40%, short of last year's 58% and the 60% average. Spring wheat harvest advanced to 27%, short of last year's 45% and the 57% average. Rice harvest reached 22%, slightly behind 1978's 26% and the 25% average. Most cotton acreage was setting bolls, but only minor acreage showed open bolls. Corn advanced well into the dough stage; early acreage began denting. Most soybean acreage advanced into or past bloom; significant acreage set pods. Grain sorghum heading was well advanced; early acreage was coloring. Farm fuel supplies continued to improve. LP gas rated 7% tight and 90% adequate; diesel fuel scored 24% tight and 73% adequate; gasoline stood at 21% tight and 78% adequate.

SMALL GRAINS: Winter wheat harvest was virtually complete with most acreage remaining for harvest in Idaho and Montana. In the major producing States, combining stood at 97%, nudging ahead of last year's 95% and the 96% average. Producers plowed land and prepared seedbeds for the 1980 winter wheat crop. Oats combining reached 65%, lagging 1978's 85% and the 87% average. Progress lagged far behind normal in the Great Lakes States, where recent rains lodged stands. Barley harvest reached 40%, 18 points less than last year and 20 points short of the average. Progress in Minnesota and the Dakotas lagged far behind last year and the average. Spring wheat combining stood at 27%, lagging last year's 45% and the 57% average. Only Idaho surpassed the progress of recent years. Other States lagged the average by 20 to 40 points.

CORN: Corn rated mostly good and in some areas excellent. Frost damaged some corn in extreme northern areas, but this acreage probably will be salvaged as forage. Northern areas will need a late frost if the crop is to mature fully. In the eastern north central States, dough stage ranged from 20% in Wisconsin to 75% in Illinois and Indiana. In the western north central States, dough stage ranged from 11% in Minnesota to 73% in Missouri. Throughout the Corn Belt, development generally lagged last year but was not far off the average, except in Minnesota. Harvest continued to advance throughout the South.

SOYBEANS: Soybeans rated good, although severe weather damaged some of the Ohio crop and, dry soils

stressed acreage in the Southeast. Some Arkansas acreage also needed additional moisture for better development. In the eastern Corn Belt, pod set ranged from 40% in Ohio to 83% in Illinois. In the western Corn Belt, pod set ranged from 54% in Missouri to 97% in Iowa. Pod set ranged from 48 to 73% in the south central States. Development was close to normal.

COTTON: Cotton scored only fair to good. Dry soils produced stress and caused plants to drop some bolls in the South Atlantic States. Hail heavily damaged some cotton acreage in southeastern Arizona. Very little acreage showed open bolls, with Texas leading at 14%. Picking was confined to southern Texas where a backlog developed at gins. Texas harvest stood at 6%, lagging last year's 11% and the 7% average.

OTHER CROPS: Grain sorghum heading ranged from 91% in Texas to 65% in Kansas; early fields began coloring on the northern Plains. Only Texas reported harvest activity with 50% of that State's acreage harvested, compared with 65% last year and the 54% average. Midge infestations caused heavy losses in some areas of Texas.

Rice harvest stood at 22%, lagging last year by 4 points and the average by 3 points. The Texas harvest neared completion; Louisiana approached the halfway mark; and Arkansas began harvesting early fields.

FRUITS & NUTS: The peach harvest wound down to the finish in southern areas and approached its peak in northern areas. Most areas of the Nation harvested summer apples. Pacific Northwest growers harvested pears. California growers harvested a wide range of deciduous fruit including pears, peaches, plums, nectarines, apples, grapes, and prunes. California growers began harvesting grapes to dry as raisins.

Florida citrus groves rated excellent; rains and thunderstorms continued to provide adequate soil moisture. New crop fruit and foliage growth looked good on healthy trees. Caretakers removed diseased trees. Texas growers irrigated and sprayed citrus groves. Arizona citrus groves rated good; lemon picking continued in the Yuma area. California citrus picking slowed.

Pecans rated fair to good in Georgia, and Texas reported a heavy set which broke some tree limbs. Mississippi pecans rated only poor to fair. California almond knocking increased. Oregon filberts began loosening in the husks.

VEGETABLES: Vegetable producers in northern areas continued to harvest good volumes of sweet corn, snap beans, cabbage, tomatoes, onions, and beets. Southern producers continued to prepare seedbeds and plant fall crops. Rain damaged some New Mexico onions and lettuce seedlings. The pea harvest was winding down in Washington. The California processing-tomato harvest continued and looked good.

PASTURES & LIVESTOCK: Grasslands east of the Rocky Mountains rated good, except in the South Atlantic Coast States, where dry soils slowed growth. In the West, rains improved rangeland, but most areas rated only fair. Producers in some local areas of the West hauled water to livestock. Herdsmen moved cattle off summer ranges, where dry soils stressed grass growth. Hay crops generally rated good, although rains delayed cutting and curing in some of the Great Lakes States. Cattle rated good.

Weather Data for the Week Ending Aug. 19, 1979

States and Stations	Temperature °F						Precipitation					Relative Humidity, percent		Number of Days				
	Average maximum	Average minimum	Extreme high	Extreme low	Average	Departure from normal	Weekly total, in.	Departure from normal	Greatest in 24-hour, in.	Total, in., since June 4	Pct. normal since June 4	Average maximum	Average minimum	Temperature °F		Precipitation		
														90 and above	32 and below	.01 inch or more	.50 inch or more	
ALA. Birmingham.	85	63	92	56	74	-5	.0	-1.0	.0	11.4	97	96	54	1	0	0	0	
Mobile.	90	71	92	68	81	-1	.1	-1.4	.1	15.1	79	92	54	0	0	0	0	
Montgomery.	86	68	92	62	77	-4	.0	-1.7	.0	6.3	58	85	49	0	0	0	0	
ALASKA. Anchorage.	63	55	66	53	59	+3	.7	+	.3	6.3	140	90	81	0	0	0	0	
Barrow.	53	42	64	39	46	+8	.1	+	.1	.5	25	90	75	0	0	0	0	
Fairbanks.	75	51	80	46	63	+7	.1	+	.4	2.6	54	75	42	0	0	0	0	
Kodiak.	60	52	68	45	56	+1	2.0	+	1.0	6.7	68	95	77	0	0	0	0	
Nome.	59	50	62	38	54	+5	1.2	+	4.4	6.1	109	96	76	0	0	0	0	
ARIZ. Flagstaff.	68	44	70	36	55	-9	1.2	+	6.6	3.6	77	98	38	0	0	0	0	
Phoenix.	97	71	98	69	84	-5	2.2	+	1.1	1.5	88	74	28	0	0	0	0	
Tucson.	89	66	92	63	78	-6	1.5	+	1.0	5.1	124	70	28	0	0	0	0	
Winslow.	83	56	89	52	69	-7	1.3	+	.9	1.2	1.7	65	81	29	0	0	0	0
Yuma.	98	74	101	70	86	-7	.8	+	.7	1.7	340	58	22	0	0	0	0	
ARK. Fort Smith.	88	69	91	63	79	-3	1.2	+	.6	.9	10.3	120	94	60	3	3	1	1
Little Rock.	88	67	96	62	77	-4	.0	-	.6	.0	5.6	67	85	52	0	0	0	0
CALIF. Bakersfield.	91	67	98	62	79	-3	.0	-	.0	.0	100	60	26	0	0	0	0	
Eureka.	67	54	69	51	60	+3	.0	-	.1	.0	44	92	68	0	0	0	0	
Fresno.	90	64	94	61	77	-1	.0	-	.0	.4	100	60	26	0	0	0	0	
Los Angeles.	76	65	78	62	70	+1	.0	-	.0	.1	100	67	31	5	0	0	0	0
Red Bluff.	88	64	94	62	75	-5	.0	-	.1	.0	100	86	62	0	0	0	0	0
San Diego.	77	69	78	67	73	+1	.0	-	.0	.0	100	70	28	4	0	0	0	0
San Francisco.	69	56	71	54	63	0	.0	-	.0	.1	50	80	62	0	0	0	0	0
Stockton.	91	61	98	60	76	+1	.0	-	.0	.1	50	89	59	0	0	0	0	0
COLO. Denver.	73	56	80	52	64	-8	3.4	+	3.1	1.1	200	73	29	5	0	0	0	0
Grand Junction.	77	59	87	53	65	-10	.3	+	.0	.3	1.4	93	77	39	0	0	0	0
Pueblo.	82	58	86	52	68	-7	.8	+	.3	6.4	142	87	42	0	0	0	0	0
CONN. Bridgeport.	72	57	77	55	65	-8	.5	-	.4	.3	6.5	79	80	63	0	0	0	0
Hartford.	72	49	78	38	62	-9	.8	-	.1	.6	6.3	70	88	52	0	0	0	0
D.C. Washington.	79	62	86	58	71	-6	.1	-	1.0	.1	8.4	82	85	55	0	0	0	0
FLA. Apalachicola.	89	71	91	68	80	-2	.0	-	.8	.0	11.2	63	86	52	3	3	1	0
Daytona Beach.	88	72	92	69	80	+1	.8	-	.7	19.5	115	99	64	1	0	0	0	
Ft. Myers.	94	76	95	75	82	-1	.7	-	1.0	.3	20.0	92	95	54	7	0	0	0
Jacksonville.	87	71	90	68	79	-2	.4	-	1.4	.1	14.3	79	98	62	2	2	0	0
Key West.	91	81	93	78	86	+1	.4	-	.6	.1	7.1	66	87	59	6	0	0	0
Miami.	90	78	90	77	84	+1	.1	-	1.4	.1	11.4	60	83	56	4	0	0	0
Orlando.	91	73	94	70	82	0	.5	-	1.0	.5	16.7	88	96	59	6	0	0	0
Tallahassee.	90	66	92	64	78	-3	.1	-	1.4	.1	20.4	105	95	47	4	0	0	0
Tampa.	88	75	91	73	83	0	3.1	+	1.3	1.1	15.8	81	95	65	5	0	0	0
W. Palm Beach.	91	75	92	73	87	+5	.5	-	1.0	.5	11.0	61	88	53	7	0	0	0
GA. Atlanta.	85	66	92	64	76	-2	.0	-	.8	.0	6.2	58	85	49	1	0	0	0
Augusta.	85	62	92	58	74	-6	.1	-	.8	.1	8.9	79	83	54	1	0	0	0
Macon.	87	65	96	60	77	-4	.0	-	.8	.0	8.8	85	91	43	3	0	0	0
Savannah.	88	67	92	64	78	-3	.0	-	1.4	.0	16.5	96	92	49	3	0	0	0
HAWAII. Hilo.	81	72	82	70	77	+1	4.7	+	2.1	23.0	101	92	76	0	0	0	0	
Honolulu.	87	75	90	75	81	0	.0	-	.2	.0	7	50	79	55	0	0	0	0
Kahului.	90	--	93	--	--	--	--	--	--	--	--	--	--	1	0	0	0	0
Lihue.	85	77	88	73	80	+1	1.1	+	.6	--	4.6	96	82	68	0	0	0	0
IDAHO. Boise.	83	59	86	56	70	-2	1.6	+	1.5	1.6	1.8	138	78	30	0	0	0	0
Lewiston.	88	63	94	58	75	+3	.4	+	.3	--	1.3	52	75	34	3	0	0	0
Pocatello.	79	55	84	53	67	-3	.7	+	.6	--	2.2	116	83	35	0	0	0	0
ILL. Cairo.	83	66	91	59	75	-4	.2	-	.6	.2	1.8	19	--	--	2	0	0	0
Chicago.	73	61	79	52	67	-7	3.0	+	2.3	2.6	13.6	139	82	62	0	0	0	0
Moline.	74	58	85	47	68	-5	4.2	+	3.5	2.4	13.3	124	84	54	0	0	0	0
Peoria.	79	58	88	45	69	-5	.4	-	.3	.3	7.3	80	87	48	0	0	0	0
Rockford.	74	58	80	46	66	-6	2.4	+	1.6	--	13.2	125	95	70	0	0	0	0
Springfield.	80	61	92	53	71	-4	.1	-	.5	.1	7.1	76	90	60	2	0	0	0
IND. Evansville.	83	58	90	52	70	-6	.4	-	.2	.4	10.3	112	70	59	0	0	0	0
Ft. Wayne.	73	54	81	44	64	-7	.4	-	1.3	1.1	20.3	221	97	53	0	0	0	0
Indianapolis.	78	56	86	45	67	-6	1.9	+	1.3	.7	13.4	147	87	69	0	0	0	0
South Bend.	75	59	82	48	66	-5	.4	-	.4	.4	6.6	65	--	--	3	1	0	0
IOWA. Burlington.	79	59	90	48	59	-5	1.3	+	.5	1.0	10.5	109	82	55	1	0	0	0
Des Moines.	79	64	94	55	71	-3	2.8	+	1.9	1.0	14.9	130	78	--	1	0	0	0
Dubuque.	73	58	84	45	66	-5	2.4	+	1.7	2.0	8.0	86	84	61	1	0	0	0
Sioux City.	76	61	91	54	69	-5	1.1	+	.4	1.1	8.8	92	86	55	4	0	0	0
KANS. Concordia.	82	62	93	54	72	-6	.1	-	.5	.1	6.6	85	79	42	3	0	0	0
Dodge City.	85	59	95	52	72	-7	1.3	+	.8	.6	11.9	175	95	60	0	0	0	0
Goodland.	76	55	87	50	66	-9	.3	-	.7	.3	12.4	101	87	65	3	0	0	0
Topeka.	83	66	93	58	74	-4	.3	-	.3	.2	9.3	89	84	42	6	0	0	0
Wichita.	93	65	101	56	79	-1	.5	-	.2	.5	9.6	89	88	53	0	0	0	0
KY. Lexington.	78	58	87	51	68	-7	.0	-	.6	.0	14.0	152	91	54	1	0	0	0
Louisville.	82	61	92	54	71	-5	--	--	--	--	--	--	--	0	0	0	0	0

Based on preliminary reports and 1941-70 normals

Weather Data for the Week Ending Aug. 19, 1979

States and Stations	Temperature °F						Precipitation					Relative Humidity, percent		Number of Days			
	Average maximum	Average minimum	Extreme high	Extreme low	Average	Departure from normal	Weekly total, in.	Departure from normal	Greatest in 24-hours, in.	Total, in., since June 4	Pct. normal since June 4	Average maximum	Average minimum	Temperature °F		Precipitation	
														90 and above	32 and below	.01 inch or more	.50 inch or more
LA. Baton Rouge	90	71	91	67	80	- 2	.6	- .4	-	9.7	75	96	60	5	0	-	0
Lake Charles	89	73	91	71	81	- 1	2.3	+ 1.3	2.1	18.4	131	93	63	3	0	-	0
New Orleans	92	73	94	71	82	- 0	.1	- 1.0	.1	12.2	85	91	55	7	0	1	1
Shreveport	90	70	92	67	80	- 3	.3	- .3	.3	10.0	133	96	57	5	0	1	0
MAINE. Caribou	64	48	72	41	56	- 7	1.9	+ .8	1.9	10.0	106	91	51	5	0	1	0
Portland	69	48	74	43	59	- 8	1.6	+ 1.0	.7	11.5	162	90	56	0	0	3	2
MD. Baltimore	78	58	85	53	68	- 7	.7	+ 1.0	.0	10.2	101	83	52	0	0	1	0
MASS. Boston	71	58	76	54	65	- 6	.9	+ .1	.2	7.5	97	81	59	0	0	3	0
Chatham	68	57	72	54	63	- 8	.8	+ .0	.4	5.9	77	83	61	0	0	3	0
MICH. Alpena	66	47	75	39	57	- 8	.8	+ .2	-	9.0	130	-	-	0	0	4	4
Detroit	72	52	78	43	63	- 8	1.2	+ .4	.9	10.4	125	88	55	0	0	3	3
Flint	70	53	75	43	62	- 6	.7	+ .1	.6	8.9	116	96	58	0	0	3	1
Grand Rapids	72	52	77	40	62	- 8	1.0	+ .4	.6	8.9	116	92	60	0	0	5	1
Houghton Lake	66	49	75	35	57	- 8	.5	+ .0	.1	8.8	116	90	68	0	0	-	1
Lansing	71	51	77	39	61	- 9	.6	+ .0	-	9.6	128	96	58	0	0	-	0
Marquette	67	46	75	41	57	- 6	.1	- .7	.1	11.0	139	87	57	0	0	2	0
Muskegon	68	52	75	36	60	- 9	1.0	+ .4	.6	6.3	98	86	64	0	0	4	1
S. Ste. Marie	66	49	79	37	58	- 6	.9	+ .2	.5	13.3	180	90	62	0	0	4	1
MINN. Duluth	71	49	81	37	59	- 6	.6	+ .2	.6	6.2	63	97	50	0	0	1	1
Internatl. Falls	73	45	82	33	58	- 6	.6	+ .2	.0	10.3	102	92	49	0	0	3	0
Minneapolis	73	57	83	48	65	- 6	.6	+ .2	.6	6.2	63	97	50	0	0	1	1
Rochester	73	55	83	43	65	- 4	1.0	+ .2	.7	9.9	98	99	62	0	0	3	1
St. Cloud	71	50	82	39	61	- 8	.1	- .8	-	9.4	96	94	-	0	0	2	0
MISS. Jackson	90	66	94	62	78	- 3	.0	- .8	.0	21.6	223	95	51	5	0	0	0
Meridian	90	67	93	63	78	- 3	.0	- .8	.0	10.5	96	94	51	3	0	0	0
MO. Columbia	83	61	94	55	72	- 4	.3	- .4	.3	5.9	59	91	51	3	0	2	0
Kansas City	83	64	93	56	73	- 4	2.0	+ 1.2	1.1	12.2	106	84	68	3	0	3	2
St. Louis	85	65	96	58	75	- 3	.1	- .5	.1	5.8	60	81	41	3	0	1	0
Springfield	84	63	92	57	74	- 4	1.2	+ .6	.8	15.5	165	90	60	2	0	2	1
MONT. Billings	81	58	89	54	69	- 2	.4	+ .1	.3	1.9	51	72	38	0	0	2	0
Glasgow	82	56	92	50	69	- 1	.0	- .4	.0	1.6	32	62	27	3	0	0	0
Great Falls	84	54	89	50	69	+ 1	.2	- .1	.1	3.1	66	72	24	0	0	3	0
Havre	88	54	95	52	70	+ 1	.6	+ .4	.3	3.7	100	84	38	0	0	4	0
Helena	79	54	84	52	66	+ 5	.6	+ .3	.0	1.5	38	74	30	1	0	1	0
Kalispell	84	53	90	42	68	+ 5	.6	+ .4	.3	3.7	100	84	38	0	0	4	0
Miles City	82	58	91	54	70	- 3	.3	+ .3	.0	3.5	66	64	32	2	0	1	0
Missoula	82	56	87	48	63	- 2	.3	+ .1	.2	1.7	52	77	33	0	0	2	0
NEBR. Grand Island	79	60	92	54	70	- 6	.5	- .1	.4	6.3	73	89	52	2	0	2	0
Lincoln	80	62	92	56	71	- 5	.6	- .2	.9	7.7	78	95	55	3	0	1	0
Norfolk	75	60	89	53	68	- 6	1.2	+ .6	-	8.6	92	85	60	0	0	3	0
N. Platte	78	60	92	54	69	- 5	.3	- .1	.1	10.9	143	76	48	2	0	2	1
Omaha	80	65	93	60	69	- 5	.4	- .5	.1	7.0	65	79	47	2	0	3	0
Valentine	74	58	90	53	66	- 7	.7	+ .1	-	7.8	105	81	54	1	0	-	0
NEV. Ely	71	44	75	41	57	- 9	.5	+ .4	.2	2.1	140	82	39	0	0	6	0
Las Vegas	89	67	96	66	78	- 9	.6	+ .5	.3	3.0	375	77	26	3	0	3	0
Reno	83	50	86	40	66	- 1	.6	+ .1	.0	.6	60	74	22	0	0	0	0
Winnemucca	81	51	88	45	66	- 2	1.1	+ 1.0	.6	2.3	164	86	35	0	0	2	1
N.H. Concord	71	46	77	40	59	- 8	.7	+ .1	.3	6.7	85	94	53	0	0	5	0
N.J. Atlantic City	75	56	83	46	65	- 9	.3	- .8	-	13.4	126	75	48	0	0	-	0
Trenton	75	59	82	52	67	- 7	.3	- .6	.3	11.7	112	-	-	0	0	1	0
N.MEX. Albuquerque	80	61	89	57	71	- 6	.7	+ .4	.5	3.2	107	74	35	0	0	4	1
Roswell	83	63	90	58	73	- 5	1.5	+ 1.1	.7	4.2	105	-	-	1	0	7	1
N.Y. Albany	72	52	78	40	62	- 8	.8	+ .2	.5	7.3	97	92	51	0	0	4	1
Binghamton	65	49	73	43	58	-10	.5	- .3	.4	3.8	42	93	53	0	0	2	0
Buffalo	70	53	75	46	61	- 8	.8	- .0	.4	6.8	96	88	60	0	0	4	0
New York	76	61	80	56	68	- 7	.8	- .3	.6	5.4	57	76	45	0	0	2	1
Rochester	70	51	76	46	61	- 9	.4	- .3	.2	6.3	90	95	58	0	0	3	0
Syracuse	69	52	75	44	61	- 9	.9	+ .1	.5	7.3	90	56	58	0	0	4	1
N.C. Asheville	82	57	90	55	69	- 4	.0	- 1.0	.0	8.6	75	100	58	1	0	0	0
Charlotte	84	61	93	55	72	- 6	.0	- .9	.0	9.4	89	85	45	1	0	0	0
Greensboro	82	57	91	50	70	- 6	.0	- 1.0	.0	7.0	65	92	43	1	0	1	0
Hatteras	79	64	85	56	72	- 6	.0	- 1.5	.0	12.6	88	80	55	0	0	1	0
Raleigh	83	57	91	50	70	- 7	.7	+ .1	.0	7.1	62	86	47	1	0	-	0
Wilmington	85	66	92	59	74	- 6	.0	- 1.5	.0	8.1	46	87	55	1	0	0	0
N.DAK. Bismarck	77	49	91	34	63	- 7	.0	- .5	.0	4.3	64	84	32	1	0	0	0
Fargo	75	53	88	43	65	- 5	.0	- .6	.0	6.4	80	88	39	0	0	0	0
Williston	82	52	93	43	67	- 2	.0	- .4	.0	4.7	77	75	25	3	0	0	0
OHIO. Akron-Canton	72	54	81	44	62	- 9	.8	+ .2	.5	6.6	76	79	53	0	0	3	1
Cincinnati	77	57	84	49	66	- 9	.3	- .3	.2	15.2	163	75	54	0	0	2	0
Cleveland	75	56	79	45	65	- 5	.6	- .1	.4	9.4	111	84	39	0	0	4	0
Columbus	75	56	82	46	65	- 7	.3	- .3	.2	15.4	156	96	60	0	0	2	0
Dayton	75	56	84	46	65	- 8	1.4	+ .8	1.2	13.8	160	94	53	0	0	2	1
Toledo	73	55	77	44	63	- 8	2.4	+ 1.7	1.4	12.7	153	91	62	0	0	2	1
Youngstown	72	51	80	42	61	- 8	.5	- .2	.4	7.5	83	91	53	0	0	1	0

Based on preliminary reports and 1941-70 normals

Weather Data for the Week Ending Aug. 19, 1979

States and Stations	Temperature °F						Precipitation					Relative Humidity, percent		Number of Days			
	Average maximum	Average minimum	Extreme high	Extreme low	Average	Departure from normal	Weekly total, in.	Departure from normal	Greatest in 24-hours, in.	Total, in., since June 4	Pct. normal since June 4	Average maximum	Average minimum	Temperature °F		Precipitation	
														90 and above	32 and below	.01 inch or more	.50 inch or more
OKLA. Okla. City	94	70	97	65	82	0	.5	-.1	.5	16.3	209	80	39	7	0	2	1
Tulsa	92	71	98	65	82	0	.7	-.3	.3	14.0	149	84	48	6	0	1	0
OREG. Astoria	69	55	74	50	62	+2	.3	-.4	.4	3.5	88	93	65	0	0	4	0
Burns	78	55	81	52	64	-1	.8	-.7	-.1	1.3	81	84	29	0	0	1	0
Medford	83	56	88	51	69	-2	.6	-.3	.3	.9	69	73	32	0	0	1	0
Pendleton	83	57	85	-	70	-1	1.0	-.9	-.2	1.3	81	-	39	0	0	1	0
Portland	74	61	83	56	67	0	.9	-.7	-	1.3	81	-	39	0	0	1	0
Salem	73	56	83	51	64	-2	.6	-.4	.4	1.8	75	89	56	0	0	5	0
PA. Allentown	73	55	82	46	64	-2	.4	-.5	.4	1.5	75	91	57	0	0	6	0
Erie	72	55	78	47	64	-4	1.3	-.5	-.4	8.5	84	87	45	0	0	1	0
Harrisburg	74	59	82	51	65	-9	.2	-.5	-	7.7	92	87	60	0	0	-	-
Philadelphia	78	59	84	50	67	-8	.2	-.7	-	13.0	130	91	57	0	0	1	0
Pittsburgh	71	54	78	46	62	-8	1.6	-.9	1.2	10.7	119	89	60	0	0	3	0
Scranton	70	54	80	43	62	-8	.3	-.4	-.3	6.1	66	81	52	0	0	1	0
R.I. Providence	71	54	76	51	63	-8	1.1	-.2	.8	12.7	165	88	56	0	0	4	0
S.C. Charleston	87	64	92	56	75	-5	T	1.4	.0	10.5	58	88	48	3	0	0	1
Columbia	87	62	96	57	75	-5	T	1.3	.0	13.0	102	90	40	2	0	0	0
Greenville	84	59	92	54	72	-6	.0	-.9	.0	12.3	118	85	50	2	0	0	0
S.DAK. Aberdeen	75	53	88	42	64	-7	T	-.5	.0	7.6	103	82	43	0	0	0	0
Huron	74	54	90	42	64	-9	.5	-.0	.4	6.1	91	89	56	1	0	2	0
Rapid City	73	56	86	48	65	-7	.6	-.2	.4	9.2	139	84	56	0	0	4	0
Sioux Falls	72	58	84	49	65	-7	1.2	-.6	.9	8.7	102	86	68	0	0	5	0
TENN. Chattanooga	84	63	91	59	74	-4	.0	-.7	.0	13.5	127	90	53	1	0	1	0
Knoxville	83	63	90	58	73	-5	.0	-.7	.0	12.7	125	90	51	1	0	0	0
Memphis	88	69	93	64	78	-3	.0	-.8	.0	7.0	80	80	48	2	0	0	0
Nashville	84	59	92	53	72	-7	T	-.7	.0	7.3	82	96	48	2	0	0	0
TEX. Abilene	97	72	98	70	84	-3	.0	-.4	.0	4.4	71	73	26	7	0	0	0
Amarillo	88	62	92	59	75	-0	.1	-.6	.1	4.7	59	86	36	2	0	2	0
Austin	93	72	94	70	83	-2	.2	-.3	.1	11.7	198	93	48	7	0	3	0
Beaumont	89	75	92	73	82	-1	.5	-.8	-.1	20.8	152	95	61	1	0	-	0
Brownsville	94	75	96	73	85	+1	.1	-.5	-.1	2.9	58	91	48	7	0	0	0
Corpus Christi	94	75	96	73	85	0	.1	-.6	.0	5.6	97	93	51	7	0	2	0
Del Rio	98	74	101	72	86	0	T	-.2	.1	3.2	97	82	26	7	0	1	0
El Paso	82	63	91	61	73	-8	1.6	1.4	.8	3.1	107	92	52	1	0	6	0
Fort Worth	96	71	98	65	83	-2	T	-.5	.0	5.0	86	94	45	7	0	1	0
Galveston	87	79	89	74	83	0	.4	-.6	.4	18.9	175	77	62	0	0	2	0
Houston	91	72	94	70	81	-3	1.7	+.7	.6	11.0	102	99	61	5	0	3	1
Lubbock	89	67	92	65	78	-1	1.3	+.9	.6	6.5	110	74	37	3	0	3	1
Midland	91	68	94	64	80	-2	1.6	1.2	1.5	5.9	140	86	38	5	0	3	1
San Angelo	92	70	93	66	81	-4	.4	+.1	.4	4.2	114	83	36	7	0	1	0
San Antonio	91	75	93	72	83	-2	T	-.5	.0	10.0	179	90	50	6	0	0	0
Victoria	91	74	93	72	82	-3	1.3	+.6	.8	9.8	134	93	55	5	0	4	1
Waco	93	73	95	70	83	-3	T	-.4	.0	11.2	224	93	47	7	0	0	0
Wichita Falls	99	70	101	65	85	-1	T	-.4	.0	7.7	122	86	31	7	0	1	0
UTAH. Blanding	74	51	81	46	62	-9	.6	+.2	.5	1.3	57	-	-	0	0	4	0
Salt Lake City	83	60	87	57	72	-3	.2	-.0	.1	1.3	57	78	35	0	0	4	0
VT. Burlington	68	52	76	42	59	-9	.7	-.1	.4	4.2	48	85	56	0	0	3	0
VA. Lynchburg	80	56	86	55	68	-7	.2	-.7	.2	10.4	108	90	-	0	0	1	0
Norfolk	79	63	87	61	72	-5	T	1.4	.0	8.5	66	79	47	0	0	0	0
Richmond	81	60	85	55	71	-5	.4	-.7	.4	10.9	90	82	55	0	0	1	0
Roanoke	81	55	88	47	67	-7	.2	-.8	.2	16.1	171	86	48	0	0	1	0
WASH. Colville	81	57	88	55	69	+2	.5	+.3	.4	1.7	65	-	-	0	0	4	0
Omak	83	58	93	50	71	+3	.5	+.4	.3	1.4	74	72	34	1	0	2	0
Quillayute	69	54	74	52	61	+2	.6	+.0	.4	5.4	77	97	67	0	0	4	0
Seattle-Tacoma	70	57	76	53	63	-1	.7	+.5	.2	1.9	73	86	59	0	0	6	0
Spokane	79	58	86	55	69	+1	.8	+.7	.6	2.3	115	77	44	0	0	3	1
Walla Walla	83	63	87	60	73	-1	.9	+.8	-.1	3.4	213	72	44	0	0	6	0
Yakima	82	58	89	48	69	0	.3	+.2	.2	.9	90	80	42	0	0	2	0
W.VA. Beckley	72	52	77	45	62	-7	1.6	+.8	1.5	13.3	125	88	59	0	0	2	1
Charleston	77	55	84	47	67	-7	1.2	+.4	.6	10.9	104	94	53	0	0	2	1
Huntington	79	58	86	50	68	-6	.7	-.0	.6	16.7	184	90	57	0	0	3	1
Parkersburg	76	59	83	49	67	-7	.8	-.0	-.1	9.4	92	83	57	0	0	-	-
WISC. Green Bay	71	53	76	46	62	-6	1.0	+.4	.5	9.2	119	89	61	0	0	4	0
La Crosse	72	61	83	48	64	-8	.7	-.0	-	9.9	104	94	64	0	0	-	-
Madison	69	51	83	37	60	-9	.4	-.3	.3	9.2	95	90	70	0	0	3	0
Milwaukee	69	57	74	46	63	-7	.6	-.0	.5	6.4	77	80	70	0	0	3	1
WYO. Casper	74	54	84	50	64	-6	2.3	+.2	1.4	4.8	185	87	47	0	0	4	1
Cheyenne	69	52	80	48	61	-7	.7	+.3	.4	6.5	125	79	49	0	0	5	0
Lander	72	52	80	47	65	-4	1.8	+.7	1.0	2.7	104	86	43	0	0	5	1
Sheridan	76	53	84	50	64	-6	.5	+.3	-.1	3.0	68	90	42	0	0	-	0
P.R. San Juan	89	77	90	75	82	+1	1.1	-.5	.6	14.4	91	90	68	1	0	3	1

Based on preliminary reports and 1941-70 normals

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: Cool and dry.

Fieldwork: 5.9 days suitable. Soil moisture adequate. Harvesting corn and hay, preparing equipment for soybean harvest, weed and insect control main activities. Crops, pastures condition good. Corn 94% dented, 84% 1978 and average; 72% mature, 50% 1978, 48% average; 30% harvested, 11% 1978. Soybeans 86% blooming, 83% 1978, 86% average; 68% setting pods, 57% 1978, 59% average. Cotton 98% setting bolls, 94% 1978, 96% average.

ALASKA: Warm, dry, weather continued over the Tanana Valley; elsewhere cool and wet.

Cloudy weather with light rain interrupted harvest operations throughout railbelt. Harvest of 1st and 2d crop hay continued. Small grain maturity ranged hard dough to ripe. Seed harvest continued. Potato digging underway. Moderate supply cabbage, greens, lettuce, radishes, squash harvested. Topsoil moisture mostly short Tanana Valley, adequate or better elsewhere.

ARIZONA: Moist, southern air dominant. Precipitation ranged from 0.15 to 2.66 in. Hail storms southeast. Temperatures 5 to 9° below normal.

Field operations continue. Cotton suffered widespread, severe hail damage, southeast; other areas crop still look good. Southwestern fields receiving last irrigation. Sorghum, corn excellent progress. Some hail damage corn southeast. Alfalfa excellent progress; finished fifth cutting west, fourth cuttings central areas. Fall watermelons being planted. Fall lettuce planting continued. Citrus groves good condition; lemon picking underway Yuma. Diesel, gasoline adequate except southeast. LP gas adequate. Cattle, calves good condition. Range, pasture, stock water, soil moisture normal. Recent rains promise improvement. Heavy grasshopper infestation some areas.

ARKANSAS: Temperatures below normal. Rainfall scattered. Highest mean 80°; lowest 73°. Highest temperature 98°; lowest 49°. Greatest precipitation 2.96 in.

All crops showing good progress. Soil moisture becoming short many areas. Fieldwork: 5.8 days suitable. Diesel 82% adequate, 14% tight; gasoline 84% adequate, 14% tight; LP gas 95% adequate. Soybean progress good, rain needed for setting, filling pods; blooms 62%, 59% 1978; pod set 33%, 42% 1978. Cotton condition good. Fruiting well; 95% setting bolls, 100% 1978. Rice rapid progress 41% headed, 64% 1978; first fields harvested. Early rice fields being drained prior to first cuttings. Corn good condition; early fields being harvested. Sorghum harvest underway in some early fields. Peach harvest reaching final stages. Apple harvest underway; favorable quality. Watermelons continued good supply. Pastures average condition. Hay quality favorable. Cattle good condition; gains favorable. Dry weather reducing available forage.

CALIFORNIA: Southerly flow aloft and weak upper air disturbances brought several surges of tropical moisture to the southern and eastern interior. Thunderstorm activity was higher than usual and

temperatures much below normal in this region with above normal precipitation. Elsewhere fair dry weather prevailed with temperatures near normal to slightly below in central valley.

Cotton 96% bloomed, 79% setting boll stage, 5% open boll stage. Rice 70% headed, 17% turning color. Corn 92% tassel, 83% silk. Raisin lay began. Pears, peaches, plums, nectarines, apples, grapes, prunes harvested. Citrus picking slow. Almond knocking increasing. Broccoli supply moderate. Cantaloup decreases due to cool weather. Carrot harvest and planting continued in Kern, replanting in Coachella after rain. Transplanting celery, cauliflower south coast, supplies moderate central coast. Garlic harvest continued. Lettuce planting to begin desert, supplies below normal central coast. Bell peppers good supply. Potatoes, onions irrigated, sprayed and in good condition in north. Sweetpotato harvest underway San Joaquin. Tomato harvest continued, looking good. Summer ranges have adequate feed, water supplies. Sheep grazing tomato, melon, small grain fields. Honey production good. Diesel fuel situation improved somewhat in San Joaquin Valley. All farm fuels in adequate supply.

COLORADO: Cool, wet weather dominated. Precipitation well above in extreme south and eastern areas. Temperatures 1 to 8° below normal.

Spring wheat harvested 37%, 60% 1978. Winter wheat harvest virtually complete, two weeks behind schedule. Corn average height 74 in., 81 in. 1978; tasseled 97%, 100% 1978, 100% average; silked 94%, 93% 1978. Sorghum headed 60%, 76% 1978. Dry beans flowered 79%, 90% 1978. Alfalfa second cutting 81%, 100% 1978; third cutting 19%, 20% 1978. Fieldwork: 3.5 days suitable. Ranges and pastures good condition. Livestock very good condition. LP gas and gasoline supplies adequate; diesel fuel supply becoming tighter.

FLORIDA: Two occasional summertime cool fronts brought drier air and record low temperatures in the 60's across Panhandle and Big Bend areas. Peninsular Florida continued warm and humid with typical scattered thundershower activity. Rainfall below normal with amounts less than 1.00 in. Temperatures averaged 4° below normal Panhandle but 2° above normal south and near normal elsewhere.

Soil moisture mostly adequate. Corn harvest active, nearing completion. Tobacco harvest practically complete, marketing active. Soybeans, peanuts good condition. Worm population increasing in soybeans. Sugarcane good to excellent condition. Haymaking continued. Fuel supplies mostly adequate, however, a little tight, southern half. Pasture condition mostly good to excellent. Cattle good condition. Citrus grove condition excellent; rains and thunderstorms continued. New growth on well-cared-for trees. Continuing removal of diseased trees. New crop fruit looks good on healthy trees. Land preparation very active for fall vegetable planting. Tomato crop Gadsden County area making excellent progress. Tomato planting increasing southern areas. Pepper, celery, eggplant plantings increasing. Early planted acreage progressing favorably, very little spot resetting necessary. Small acreage squash, okra planted in Dade County area making good progress. Light harvest underway.

GEORGIA: Average temperatures near 70° mountains to mid and upper 70's across central and south. Readings 2 to 4° below normal. Extremes: 50 and 97°. Rainfall early week.

Soil moisture declined, short to adequate statewide. Driest areas in central. Many crops showing signs of moisture stress. Fieldwork: 6 days suitable. Corn fair to good; 32% harvested, 20% last year. Soybeans fair to mostly good. Peanuts fair to mostly good, down from last week. Tobacco fair to good; 92% harvested, 86% year ago. Cotton fair to mostly good; 7% of bolls open, 5% last year, average 8%. Watermelons fair to mostly good; 96% harvested, 91% last year. Peach harvest about complete, last year 98% picked. Apples, fair to mostly good; 42% harvested, last year 33%. Pecans fair to good. Cattle and hogs good. LP gas 94% adequate, 3% tight; diesel fuel 80% adequate, 18% tight; gasoline 88% adequate, 10% tight.

HAWAII: Weather continued favorable. Hot, humid some areas. Showers light, scattered.

Most areas generally dry and irrigation heavy on some Islands. Frequent spraying controlling insect, disease infestations. Vegetable supplies: Head, mustard cabbage heavy; other vegetable supplies remain light to moderate. Banana supplies light; orchard conditions fair to good. Papaya supplies light; lull period currently. Occasional rains on Puna orchards beneficial. Pineapple harvesting active, heavy. Sugar harvesting steady. Pastures generally good. Fuel supplies adequate.

IDAHO: Rain 0.03 to 1.67 in. Temperatures mid-40's to 101°. Some flash flood watches.

Hail and rains in south central area damaged small grains, corn, potatoes, dry beans, sugarbeets. Rain throughout State slowed harvest, but improved ranges and soil moisture supplies. Winter wheat harvested 60%, last year 50%, normal 40%. Spring wheat 25% harvested, last year 20%, normal 20%. Barley 20% harvested, last year 20%, normal 25%. Potatoes 15% turning, last year 25%, normal 25%. Second cutting alfalfa 70% completed. Sweet corn (processing) harvest 30% complete. Mint harvest 70% complete, 85% 1978. Dry peas 90% completed, 60% 1978. Fieldwork: 4.3 days suitable.

ILLINOIS: Temperatures 3 to 7° below normal. Precipitation ranged from 0.05 to 2.10 in., widely scattered showers statewide.

Soil moisture adequate. Corn 75% dough, 73% 1978, 78% average; 25% dent, 34% 1978, 44% average; condition good. Soybeans 83% podded, 81% 1978, 81% average; starting to turn yellow; condition good. Winter wheat land 45% plowed, 40% 1978, 52% average. Alfalfa hay third crop 39% cut, 32% 1978, 38% average; condition good. Pastures good. Fieldwork: 6.0 days suitable.

INDIANA: Another wet week. Temperatures ranged from 41 to 92° and averaged 5° below normal. Rainfall averaged 0.80 in. north central, east central and southeast; 1.60 in. northwest and northeast; 0.10 in. southwest; 2.50 in. west central. Humidities high and sunshine moderately low.

Fieldwork: 5 days suitable. Topsoil and subsoil moisture adequate. Oats 95% combined, 1978 100%, average 100%. Wheat land 15% plowed, 1978 20%, average 30%. Corn 75% in or past dough, 1978 70%, average 70%; 15% dented, 1978 15%, average 30%. Soybeans 70% set pods, 1978 70%, average 75%; 100% in bloom, 1978 100%. Alfalfa 95% cut twice. Few silos filled. Diesel 94% adequate, gasoline 91% adequate, LP gas 94% adequate.

IOWA: First 4 days unseasonably cool with most highs in 60's and 70's and some daily record low readings east on 15th. Hot and humid with thunderstorms weekend.

Fieldwork: 5.7 days favorable. Topsoil and subsoil moisture adequate. Corn in or past milk stage 91%, 1978 91%; in or past dough stage 47%, 1978 62%, normal 70%. Soybeans setting pods 97%, 1978 92%, normal 93%. Second crop clover hay harvested 91%, 1978 88%, normal 74%. Third crop alfalfa hay harvested 35%, 1978 26%, normal 32%. Crop conditions declined, minimal insect damage. Livestock market movement slow; herd replacement variable, mostly slow.

KANSAS: Unseasonably cool with averages from 69° northwest to 78° south central, 6 to 8° below normal west and north central to 2 to 4° below normal east and south central. Precipitation averaged from 1.00 in. northeast and 0.75 in. north central to 0.25 to 0.50 in. elsewhere.

Corn 100% tasseled, 65% dough, 60% last year, 75% average, 25% dent, 25% last year, 35% average; 15% mature, 5% last year, 10% average. Sorghum 65% headed, last year 55%, average 60%; colored 10%, 10% year ago, 10% average. Soybeans 65% pods set, same as average, 60% last year. Third cutting alfalfa 75%, same as year ago, 70% average. Fourth cutting 15% compared with 10% last year. Fieldwork: 5.0 days suitable.

KENTUCKY: Temperatures averaged 4 to 7° below normal with coolest readings at midweek and warming to near normal weekend. Precipitation averaged only 0.10 to 0.20 in. as scattered showers.

Fieldwork: 5.1 days suitable. Main activities: Topping and spraying tobacco, haying and weed control. Burley topping 68% complete, 66% last year, 56% average. Corn prospects good to excellent; 75% past dough stage with no unusual insect or disease problems. Soybeans 72% blooming; good condition. Hay harvesting made good progress. Third crop alfalfa just over 50% harvested.

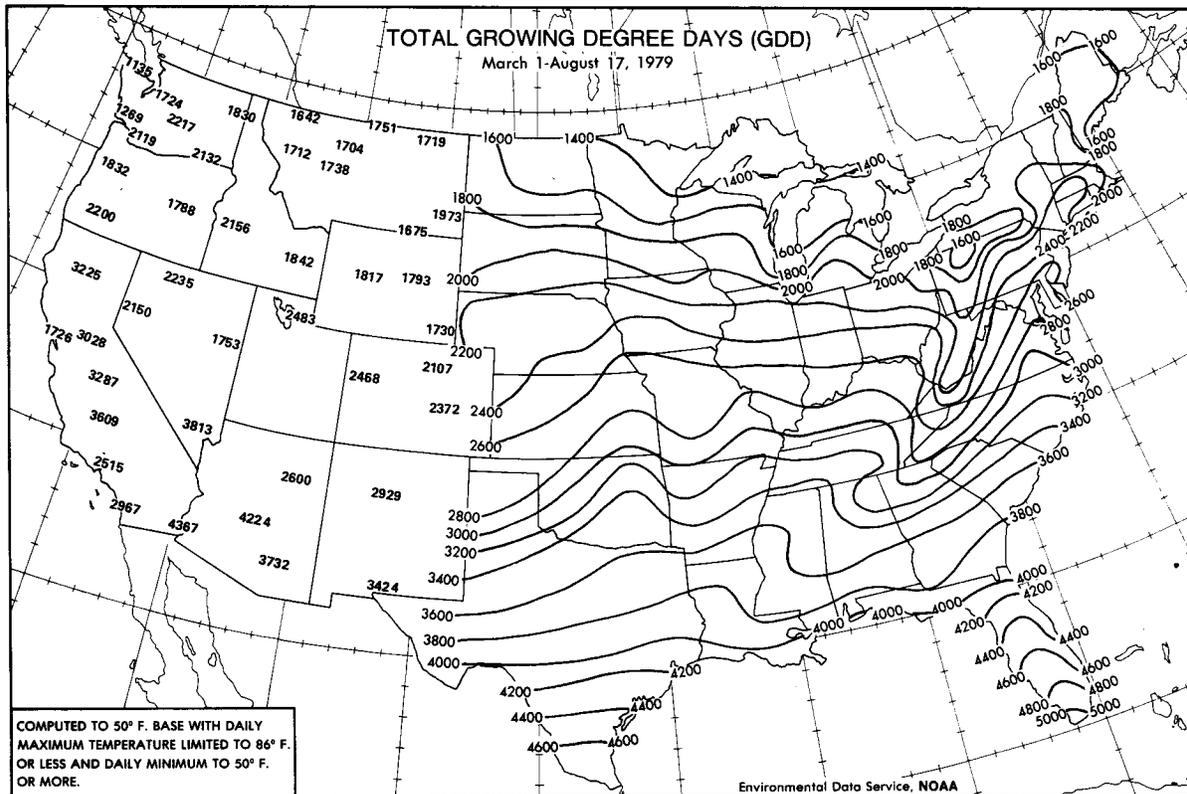
LOUISIANA: Temperatures normal to 3° below normal. Extremes: 96 and 61°. Scattered showers.

Fieldwork: 5.5 days suitable. Soil moisture adequate. Soybeans good; 91% blooming, 93% last year; 73% setting pods, 77% last year. Rice good; 89% headed; 53% ripe, 74% last year; 41% harvested, 58% last year, 51% average. Cotton fair to good. Corn fair to good; 92% mature; 26% harvested, 44% last year, 27% average. Sorghum fair to good; 98% headed; 67% turned color, 71% last year; 24% ripe, 30% last year. Sweetpotatoes good; 10% dug, 19% last year, 22% average. Sugarcane fair to good. Hay fair to good. Pastures, cattle good.

MARYLAND & DELAWARE: Temperatures averaged 9° below normal. Highs in mid-70's and lows in high 50's. Precipitation widespread and irregular, 1.00 to 4.00 in.

Fieldwork: 4.6 days suitable. Soil moisture adequate. Fuel supplies adequate. Corn 95% silked, slightly behind last year and normal; dough state 50%, 64% normal and last year; dent stage 30%, 32% last year, 31% normal. Soybeans 70% bloomed, 71% last year, 72% normal. Third cutting alfalfa 60% complete. Tobacco harvest 20% complete.

MICHIGAN: Temperatures averaging 5 to 8° below normal. Cold with minimum temperatures from mid-30's to mid-40's. Scattered frost 15th and



16th. Precipitation varied 0.50 in. to 2.00 in. Lightest rainfall east central Lower and western Upper.

Fieldwork: 5 days suitable. Soil moisture generally adequate. Pasture feed supplies average. Corn 30% doughed, 50% last year, 48% normal. Wheat harvest virtually complete. Oats 60% harvested, 90% last year, 84% normal. Dry beans 70% setting pods. Soybeans under 60% setting pods, 68% last year, 72% normal. Second cut hay 80% harvested, normal. Blueberry and summer apple harvests over 50% picked. Peaches over 33% harvested. Vegetable harvests continued: Cucumber and snap beans over 50%, sweet corn over 40%, onions over 30%, tomatoes 20% harvested.

MINNESOTA: Temperatures averaged 5 to 6° below normal. Extremes: 85 and 33°. Precipitation averaged greater than 0.50 in. below normal in all but south. Totals generally less than 0.58 in. with several stations reporting zero accumulations.

Low temperatures slowed row crop development; showers, heavy dews limited small grain harvest. Scattered frosts occurred in extreme northern areas. Damage to late season crops appears light. Soil moisture mostly adequate to surplus south, short to adequate north. Corn in milk 62%, 1978 92%, normal 89%; in dough 11%, 1978 42%, normal 52%. Soybeans setting pods 69%, 1978 91%, normal 92%. Combined: Spring wheat 11%, 1978 59%, normal 58%; oats 34%, 1978 81%, normal 83%; barley 29%, 1978 85%, normal 78%; winter wheat 64%, 1978 98%, normal 98%; rye 62%, 1978 94%, normal 97%; flax 0%, 1978 3%, normal 23%.

MISSISSIPPI: Temperatures near normal coastal area and up to 9° below normal elsewhere.

Extremes: 55 and 95°. Relatively dry except widely scattered showers early week in southern areas.

Soil moisture adequate. Fieldwork: 5.5 days suitable. Hay, silage harvest active. Soybeans 94% blooming, 94% 1978, 89% average; 56% podding, 63% 1978, 58% average; 1% turning, 3% 1978; condition good. Cotton 98% setting bolls, 99% 1978, 96% average; only a few fields with open bolls, 5% 1978, 5% average; condition fair. Rice 68% headed, 70% 1978, 63% average; 10% turning; condition good. Corn 90% dented, 90% 1978; 40% mature, 55% 1978; 6% harvested, 10% 1978; condition good. Sorghum 78% headed; 13% ripe, 50% 1978; few fields harvested, 15% 1978. Hay crops 70% harvested, 75% 1978, 65% average. Watermelons 94% harvested, 90% 1978, 89% average. Peaches 96% harvested, 90% 1978, 96% average. Sweetpotatoes 6% harvested, 14% 1978; 15% average. Peanuts 7% harvested, 21% 1978. Pasture condition good. Pecan condition fair to poor. Diesel and gasoline supplies adequate to tight. LP gas supplies adequate.

MISSOURI: Temperatures unseasonably cool ranging from 5° below normal northwest to 10° below normal southeast. Some record lows in 40's at night. Rainfall general but not heavy.

Fieldwork: 4.7 days suitable. Corn 73% in dough stage or beyond, last year 38%, normal 73%. 34% dented, last year 15%, normal 47%. Soybeans 80% blooming or beyond, last year 76%, normal 84%; 54% setting pods, last year 48%, normal 58%. Grain sorghum 78% headed, last year 71%, normal 79%. Cotton 87% setting bolls, last year 92%, normal 98%. Alfalfa hay third cutting 57% complete, last year 50%, normal 57%. Condition of cotton poor to fair. Soil moisture supply short to

adequate. LP gas supplies mostly adequate. Diesel fuel and gasoline supplies mostly tight to adequate. Condition of corn and soybeans mostly good.

MONTANA: Precipitation moderate to heavy over southwest and south central. Northeast and south-east had little if any rain, elsewhere light to moderate. Temperatures above normal west of Divide; east of Divide temperatures from 1 or 2° below normal to 5° below normal southwest. Warming occurred generally by weekend.

Winter wheat harvest nearing completion. Soil moisture short. Fieldwork: 6 days suitable. Harvest of spring grains just beginning. Winter wheat harvested 80%, 65% 1978, 70% average. Spring wheat harvested 10%, 15% 1978, 30% average. Barley harvested 15%, 15% 1978, 30% average. Oats harvested 20%, 25% 1978, 35% average. Second cutting alfalfa 25% complete; wild hay, 85% cut. Range feed supply and stock water mostly adequate. Five percent of cattle moved from summer ranges. Very few sheep moved as yet.

NEBRASKA: Temperatures 5° below normal. Precipitation averaged 0.33 in. eastern and southern areas. Isolated thunderstorms elsewhere produced only light amounts.

Corn dough 50%, year ago 45%, normal 70%. Sorghum heading 90%, year ago 90%, normal 100%. Soybeans podding 80%, year ago 90%, normal 100%. Third cutting alfalfa 35%, year ago 45%. Diesel 80% adequate, 20% tight; gasoline 85% adequate, 15% tight. Fieldwork: 5.5 days suitable.

NEVADA: Cooler air, clouds, showers brought temperatures few degrees below normal. Extremes: 104 and 34°. Storms produced locally heavy rains.

Potatoes making good growth. Small grain harvest extending north. Ranges benefited from scattered showers.

NEW ENGLAND: Temperatures ranged 10 to 16° below normal. Nighttime lows of 30 and 40° and daytime lows of 50°. Rainfall totaled 1.00 to 2.00 in. in Maine, New Hampshire and Massachusetts, and 0.50 in. elsewhere.

Heavy rains brought relief to dry conditions but cold temperatures slowed crop growth. Most corn for silage looks promising. Some wind damage done to corn fields in Connecticut. Good yield, quality for second cutting hay. Potato harvest underway in Rhode Island, Connecticut. Sweet corn in surplus supply. Apples sizing well. Soil moisture adequate to surplus. Grazing short to good. Fuel supplies adequate to tight with report of excess LP gas and deficit diesel fuel.

NEW JERSEY: Temperatures averaged 7 to 9° below normal. Rainfall averaged 0.34 in. north, 0.29 in. central and 0.26 in. south. Soil moisture in percent of field capacity averaged 89% north, 83% central and 79% south. Soil temperature averaged 68° north, 70° central and south.

Fieldwork: 4.8 days suitable. Planting fall vegetable crops well advanced. Summer vegetable maturity slowed by cooler temperatures. Irish potato digging active. Sweetpotato vine growth heavy. Peach harvest at peak; harvest of Blakes begun. Summer apple harvest continued. Cranberry prospects good. Field corn and soybean conditions good. Pasture, hay and forage crops making good growth. Spraying for insects and disease active. Gasoline and diesel supplies mostly adequate.

NEW MEXICO: Precipitation heavy ranging from 3.00 to 4.00 in.

Cotton good but late. Boll set varies from 50 to 95%. Alfalfa haying delayed and damaged by rain. About 90% of 3rd cutting and 10% of 4th cutting completed in south half. Grain sorghum and corn very good. About 30% of irrigated grain sorghum and 20% of dryland headed. In south half, about 95% of corn tasseling and 75% in dough stage. Cutting corn ensilage started. Wheat planting should start this week with good soil moisture. New plantings fall lettuce probably rain-damaged but extent unknown. Field soaked onions also damaged.

NEW YORK: Precipitation below normal. Temperatures well below normal.

Wheat harvest nearly done. Oat harvest 50% complete, 55% 1978. Second cutting alfalfa 70% done, 75% 1978. Third cutting 15% cut. Sweet corn, snap beans, cabbage, onions in good condition. Snap bean harvest 65% complete. Sweet corn harvest variable. L.I. potato harvest underway. Apples sizing well. Early McIntosh picking in Hudson Valley. Grape condition good. Clapp pear harvest nearly done.

NORTH CAROLINA: Temperatures cool; several record lows. Highs between 70's and mid-80's. Precipitation variable; none in Piedmont to 2.00 in. in some coastal sections.

Fieldwork: 6.1 days suitable. Soil moisture short. Condition of corn, peanuts, soybeans, hay crops, Irish potatoes, sweetpotatoes, apples fair to mostly good. Tobacco, cotton, and pasture fair to good. Harvested: Flue-cured tobacco 61%, 1978 50%, average 60%; sweetpotatoes less than 5%, 1978 8%, average 7%; apples 13%, 1978 less than 5%, average 15%. Phenological stages: Corn dent 72%, corn matured 48%; soybeans flowered 69%, soybeans set pods 32%.

NORTH DAKOTA: Freezing temperatures and dry weather. Low temperatures in 30's with widespread frost some sections 14th. Minimum 26° north central. Warming trend latter week. High temperatures 80's and low 90's common. Maximum 93° north west and south central. Temperatures averaged 3 to 6° below normal. Little or no precipitation. Most areas less than 0.10 in., many areas reporting none. Largest 0.51 in. southeast.

Frost damage to corn severe some areas. Some intended for grain now to be cut for silage. Additional damage to sunflower difficult to measure at this time. Lack of moisture left many areas need of additional rain for row crops. Harvest of small grains making good progress. Percents swathed or combined and average: Hard red spring wheat 31%, 60%; durum wheat 12%, 41%; oats 51%, 73%; barley 59%, 77%; flax 2%, 11%. Sunflower 77% bloom or beyond, average 93%.

OHIO: Cool weather slowed development as temperatures averaged 5 to 7° lower than normal.

Vegetables for fresh market and processing harvested. Corn and soybeans damaged heavily in northwest from recent high winds and hard rains. Corn in milk stage 75%; dough stage 30%, 40% 1978, 45% average. Soybeans setting pods 40%, 45% 1978, 50% average. Alfalfa second cutting 90%, 100% 1978, 100% average. Alfalfa third cutting 25%, 20% 1978, 25% average. Tobacco topped 50%, 65% 1978, 50% average. Fieldwork: 5 days favorable. Pasture condition good. Soil moisture adequate.

OKLAHOMA: Temperatures averaged 2 to 3° below normal northwest and southeast, elsewhere temps

ranged normal to 1° below normal. Light precipitation statewide; largest average 0.84 in. south central.

Fall crops good condition but hot dry weather showing effect. Wheat seedbeds prepared 25%, 15% 1978, 25% average. Sorghum heading 60% 1978, 85% average; milk to soft 20%, 20% 1978, 50% average; mature 5% 1979, 1978 and average. Cotton setting bolls 65%, 75% 1978, 70% average. Fieldwork: 6.2 days suitable.

OREGON: Most sections received significant rainfall; up to 2.00 in. extreme east; 0.20 to 1.00 in. over central basin; 0.10 in. along coast to 0.75 in. on inland western valleys. Temperatures averaged near normal.

Rains brought some relief to dry conditions but soil moisture still mostly short to adequate. Winter wheat harvest 92% complete. Sugarbeet seed, hops, mint, bentgrass, and other crops being harvested as weather and field condition permit. Other field activities included field burning, fall ground preparation, haying, plowing and fallow preparation. Evergreen blackberry and blueberry harvest continuing. Raspberry canes being tied up. Pears, apples, and peaches being picked; quality and size reported good. Prunes are turning. Filberts starting to loosen in the husks. Snap bean and corn harvest continuing. Early onions going down; some have been dug. Early potato harvest in full swing; later fields developing normally. Livestock fair to mostly good condition. Range and pastures fair. Rains helped somewhat, eased fire danger. Fall pasture preparation underway.

PENNSYLVANIA: Sunny, cool and dry. Temperatures 40's to 70's and 4 to 10° below normal for coolest week since early July. Extremes: 35 and 85°. Rainfall under 0.50 in. eastern two-thirds and mostly 1.00 in. western.

Fieldwork: 5 days suitable. Soil moisture adequate to some surplus. Activities: Making hay; filling silos; combining wheat, oats; spraying; fall plowing; baling straw; alfalfa seeding; picking apples, peaches; some potato and tobacco harvest; began wheat and barley seeding; vegetable harvest. Wheat combined. Oats 75% combined, same last year. Tobacco 5% harvested, last year under 5%. Potatoes 22% dug, last year 15%. Corn 40% dough, 7% dented; last year 5% dented; normal 39% dough, 6% dented. Fall plowing 11%, last year 12%. Barley and wheat sown under 5%. Alfalfa second cut 80%, third cut 25%. Clo-tim second cut 51%. Hay quality mostly fair to good. Feed from pastures average. Harvesting apples, peaches, snap beans, cabbage, sweet corn and tomatoes.

PUERTO RICO: Island average rainfall 1.33 in. or 0.33 in. below normal. Temperatures averaged about 82° on coasts and 77° interior. Extremes: 97 and 61°.

SOUTH CAROLINA: Temperatures averaged considerably below normal first, then rose. Record low temperatures across north, central several mornings. Few scattered showers in northeast at first, extreme south late week.

Corn good condition; some worm damage; 75% mature, 77% last year, 70% average; 21% harvested, 23% last year, 22% average. Cotton fair condition, dry stress causing some squares, young bolls to drop; most insects controlled, weevils occasionally severe. Soybeans fair to good condition except for dry weather. Some already spraying corn earworms, stink bugs, fall armyworms. Few driest soybeans dying, some other dropping blooms or

leaves; prematurely turning color. Tobacco 93% harvested, 80% year ago, 88% average. Harvesting, shipping peaches will end about August 25; size, quality excellent; harvested 96%. Apples good, 15% harvested, 10% last year. Grapes fair to good; 36% harvested, 38% last year, 50% average. Pastures fair to good, suffering dry stress. Sorghum condition good, managing fall armyworms; some very good tonnages for silage.

SOUTH DAKOTA: Average temperatures 3 to 10° sub-normal. Extremes 95 and 39°.

Cool, damp weather continued to delay harvest. Fieldwork: 4 days suitable. Precipitation scattered. Main farm work: Harvesting, plowing, fixing fences, working summer fallow. Grasshoppers continue to be a problem. Armyworms and sunflower head moth activity heavy in some fields. Topsoil moisture surplus portions of east; short portions of north central and south central; elsewhere adequate. Row crops in good condition. Winter wheat 94% harvested, 1978 100%, average 100%. Rye 83% harvested, 1978 100%, average 100%. Oats 79% harvested, 1978 98%, average 97%. Spring wheat 58% harvested, 1978 74%, average 92%. Barley 78% harvested, 1978 97%, average 98%. Alfalfa 2d cut 80% harvested, 1978 82%, average 89%. Flax 9% harvested, 1978 17%, average 43%. Corn 43% in dough or beyond, 1978 45%, average 47%. Corn 8% dented and beyond, 1978 8%, average 15%. Sunflowers 76% in bloom or past. Soybeans 80% podded, 1978 89%, average 88%. Sorghum 78% headed, 1978 78%, average 74%. Sorghum 14% showing color, 1978 13%, average 8%.

TENNESSEE: Temperatures 3 to 8° below normal. Precipitation statewide; amounts up to 2.00 in. west, 1.00 in. east.

Soil moisture adequate. Fieldwork: 5.5 days suitable. Soybeans blooming 90%, 1978 93%, average 87%; setting pods 48%, 1978 60%, average 48%. Cotton open bolls 2%, 1978 3%, average 5%. Corn dough stage 91%, 1978 94%, average 84%; dent stage 48%, 1978 60%, average 53%; mature stage 5%, 1978 11%, average 12%. Burley tobacco topped 73%, 1978 70%; harvested 24%, 1978 9%, average 18%. Lespedeza hay harvested 39%, 1978 34%, average 37%. Corn, soybeans, pastures good condition. Cotton, tobacco fair. Fuel supplies adequate.

TEXAS: Widely scattered thunderstorms over Texas Gulf Coast, Panhandle, Southwest. Temperatures 3 to 5° below normal Central, East Texas; normal elsewhere. Precipitation below normal North, Central; above normal East, South Central; normal elsewhere.

Showers widely scattered over State. South Texas producers harvesting cotton, milo, corn. Insect activity light. Grasshopper damage appears to be waning. Cotton gins Rio Grande Valley experience backlog as producers completing first picking. Stripping centered South Texas and Coastal Bend. Bollworm buildup Trans-Pecos, Central Texas although beneficial insects controlling harmful ones. Late fall critical to late planted Plains crop. Corn harvest centered South Texas, while silage cutting underway Panhandle. Sorghum harvest halfway. Midge caused heavy losses some areas. Soybean prospects buoyed by ample moisture. Peanut producers spray leaf spot. Dryland stands need general rain. First rice cutting winding down. Wheat for 1980 in land preparation stage. Late planted sunflowers blooming. Head moths, birds damaging High Plains fields. Sugarbeets responding to recent waterings. Cotton setting bolls 88%; open bolls 14%; harvested 6%, 11% 1978, 7% average. Rice turning color 100%; harvested 84%, 85% 1978, 80% average. Sorghum headed 91%;

Aug. 21, 1979

turning color 68%; mature 61%; harvested 50%, 65% 1978, 54% average. Corn harvested 16%, 32% 1978, 22% average. Peanuts 7%, 8% 1978, 7% average.

Lower Rio Grande Valley, planting sweet corn, cabbage, bell peppers, cauliflower, tomatoes, broccoli continued. Early stands bell peppers being thinned. Irrigating citrus groves, controlling insects continued. Coastal Bend planting cabbage, cucumbers active. Some cucumbers up. San Antonio-Winter Graden fall vegetables planted. Laredo land preparation continued. Eagle Pass, cucumbers for pickles up. East Texas, cantaloups, watermelons, peas, sweetpotatoes, okra, squash harvested. Preparation fall vegetables active. Central Texas watermelons harvested; volume beginning to taper off. Land preparation planting fall vegetables active. North Texas good movement peas, okra, tomatoes, cantaloups. Limited amount watermelons, sweetpotatoes available at Flomot. Preparation fall vegetables active. High Plains harvest of onions and potatoes tapering off. Cabbage, tomato, cucumber and bell pepper movement continued. Trans-Pecos most activity slow. Peach supplies tapered off. Pecans being sprayed for shuck worms, black aphids, weevils and other insects. Droppage continued to occur, but trees heavily loaded causing some breakage of limbs. Nuts entering dough stage.

Most pastures, ranges benefitted from summer showers and below normal temperatures. Because good forage growth, hay crops yielded well. Calves being weaned at heavier than normal weights. Scattered areas missed by showers drying out and providing reduced forage production.

UTAH: Recurring showers and thunderstorms. Generally light to moderate accumulation but locally heavy few isolated areas principally south. Cooling trend temperatures. Averages range from near normal to 7° below. Heavy precipitation improved soil moisture deficit in a few localities. Fieldwork: 5.5 days suitable. Feed supplies poor to fair. Livestock in good condition. Some stock water hauling necessary. Rains delayed small grain harvest. Winter wheat 75% harvested, spring grains 55 to 60%. Prospects for corn, potatoes, sugarbeets and onions good. Sweet corn and snap bean harvests in progress. Prospects for apple, peach, pear crop good. Diesel and gasoline tight in scattered areas but generally adequate.

VIRGINIA: Temperatures average 6° below normal with some record lows. Extremes: 88 and 39°. Rainfall moderate to heavy averaging about 1.67 in. Topsoil moisture mostly adequate. Fieldwork: 5.2 days available. Agricultural fuel supplies mostly adequate. Corn, soybeans, peanuts, pastures, hay in good condition. Tobacco: mostly good, burley fair; flue-cured markets active, pulling 30% done, 15% 1978, 28% average; fire-cured 25% cut, 2% 1978, 15% usual; burley 5%, 1% 1978, 6% average; sun-cured 20%, 2% 1978, 9% usual. Sclerotinia blight, CBR peanut infestations limited. Mites, Mexican bean beetles noted in Tidewater soybeans. Peach, apple, watermelon harvests continued. Tomatoes picked Eastern Shore. Corn silage cutting started east and southeast and to start other areas shortly. Preparing land for fall seeding. Clipping pastures.

WASHINGTON: West: Temperatures and precipitation averaged above normal.

Rain relieved moisture stress in many areas and will boost corn, bean, squash, and tomato productivity. Blueberry harvest continued. Pea harvest near completion.

East: Temperature 1 to 2° above normal; precipitation averaged 0.10 to 1.00 in. above normal. Red Delicious apples developing color; Bartlett pears harvested are excellent size. Mint, sweet corn, and early potato harvest continued. Alfalfa seed harvest starting. Rain needed for fall seeded grain crops. Some cattle have been moved from stressed ranges. Wheat harvest 89%, 1978 72%.

WEST VIRGINIA: Temperatures 8° below normal. Record lows at Elkins and Glady. Precipitation below normal northeast and northwest, above normal elsewhere.

Fieldwork: 4.0 days suitable. Soil moisture mostly adequate. Main farm activities: Haying, clipping pasture and harvesting grains. Oats harvested 86%, 80% 1978. Corn mostly good condition; some earworms and armyworms in late planted corn. Hay 2d cutting 43%, 46% 1978. Hay condition mostly good. Fuel supply mostly adequate. Cattle in good condition.

WISCONSIN: Temperatures averaged 8° below normal. Record morning lows 15th to 16th, with light frost north. Daily highs 60's until weekend when warmed to upper 70's and 80's. Extremes: 85 and 29°. Rainfall again heaviest south where isolated areas received 4.00 to 6.00 in., less than 0.50 in. north. Scattered showers and thunderstorms 13th, partly sunny 14th to 15th as very cool Canadian high pressure prevailed. Periods of showers and thunderstorms 16th to 19th, especially south and central.

Fieldwork: 5 days suitable. Cool weather slowed corn development; 20% in dough, 1978 40%, normal 37%. Crop looks very good in major corn growing areas but will need long frost free fall to mature for grain. Growing degree days running 7% behind normal since April 1. Soybeans filling pods, moisture adequate for good fill. Oats harvest slowed by unfavorable combining weather. Some fields being logged from August storms. Oats 40% harvested, 1978 70%, normal 67%. Second crop haying 75% done, 1978 80%, normal 70%. Rains interfering with hay harvest but providing plenty of moisture for third crop growth. Pasture conditions improved by August rains. Tobacco growth good, topping and harvesting continued. Cherries and early apples being picked. Harvesting continued for sweet corn, snap beans, beets, and other vegetables. Soil moisture mostly adequate, with a few shortages north and surpluses south and east.

WYOMING: Temperatures below normal. Precipitation above normal.

Topsoil moisture short to adequate. Winter wheat mature 97%, harvested 81%. Spring wheat turning color 88%, mature 63%, harvested 30%. Barley turning color 92%, mature 72%, harvested 48%. Oats turning color 78%, mature 54%, harvested 20%. Most crops maturing slower than normal. Small amount winter wheat seeded for 1980 crop. Corn 88% tasseled, 84% silked. Dry beans bloomed 95%, setting pods 66%, leaves turning color 6%. Second cutting alfalfa 53% complete. Other hay 72% cut. Ranges, pastures in use mostly fair to good condition. Fall grazing prospects fair to good.

World Weather and Crop Update

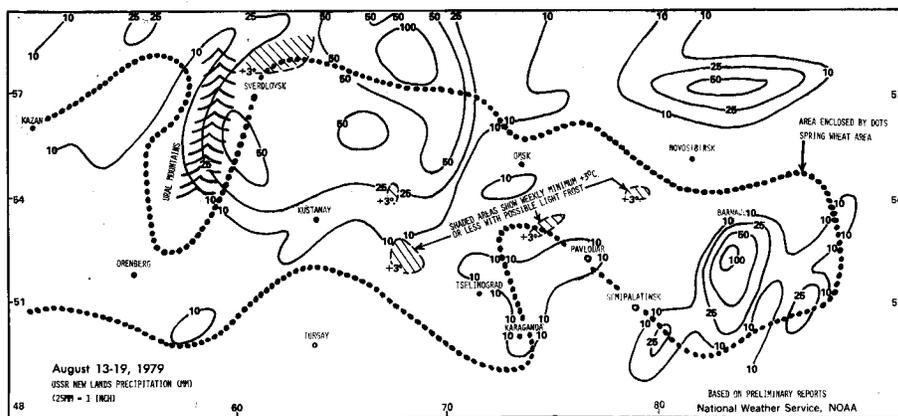
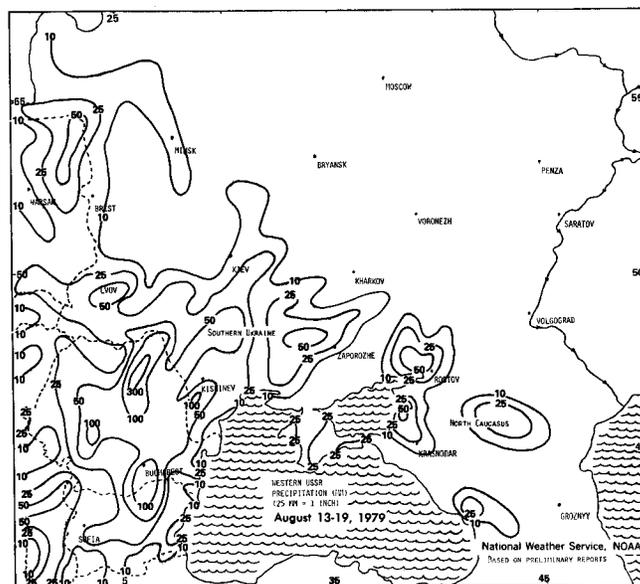
August 13 - 19

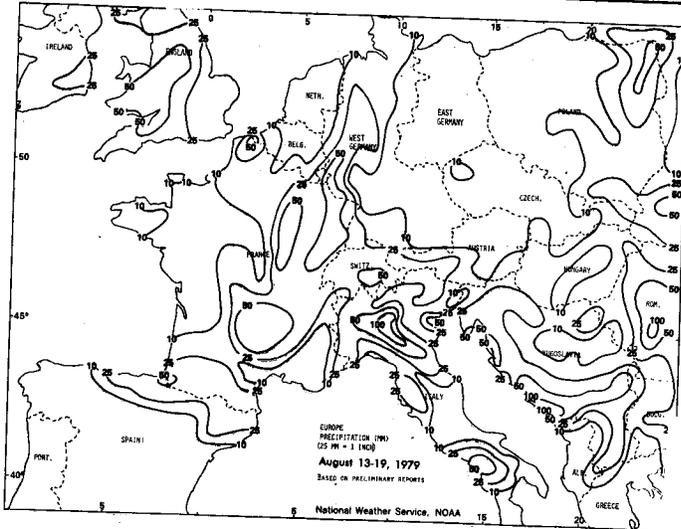
HIGHLIGHTS:

- USSR. Harvesting winter grains in the north...generally favorable weather. Harvesting spring grains in the south...excellent crop prospects.
- EUROPE. Harvesting grains in the north...continued interference by rains.
- CHINA. Late soybeans flowering*...excellent soil moisture. Harvesting cotton in the south*...some interference by rains.
- INDIA. Rice heading in the north*...soil moisture barely adequate. Rice jointing in the southeast*...irrigation water in short supply.
- AUSTRALIA. Wheat jointing in the south*...deficient moisture in most areas.
- ARGENTINA. Wheat jointing*...moisture adequate, except in southwest Buenos Aires.
- CANADA. Harvesting some grain in the south...brief frost occurrence.

*Based on normal crop calendar information.

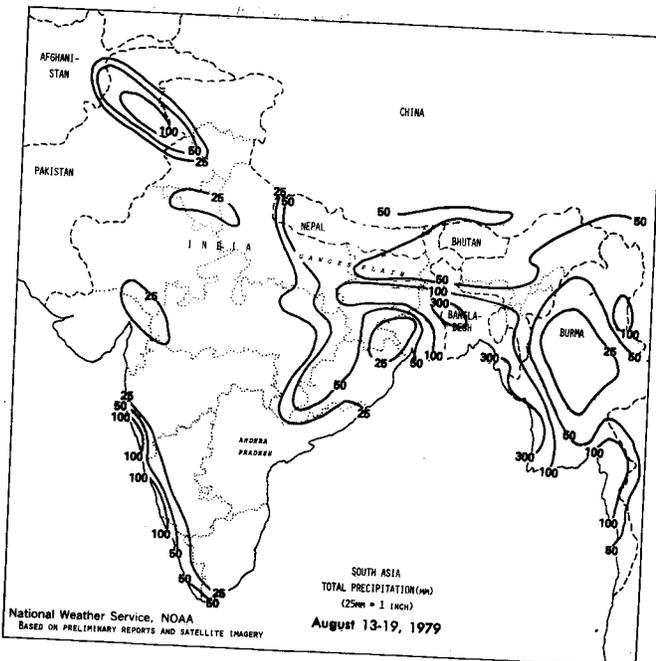
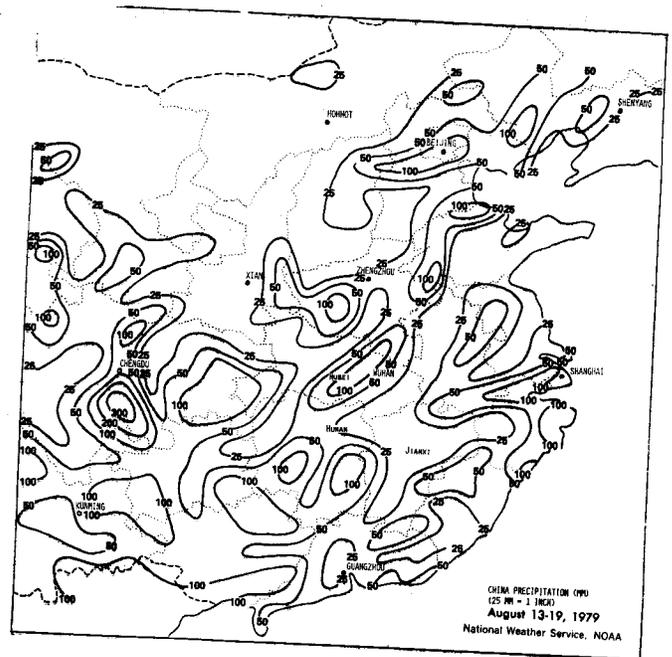
USSR. Harvesting continued in full swing across northern portions of the grain belt under favorable conditions as rainfall remained below normal. To the south, above-normal rains in the southern Ukraine and North Caucasus helped spring-sown crops, which were becoming a little dry. Spring grains in the late-filling stage from Kustanay northward received above-normal rainfall, breaking a relatively dry period of several weeks. The crop should now have sufficient moisture to assure excellent yields, barring an early frost. Temperatures dropped below normal last week in the western part of the New Lands, but the danger of frost remained remote. Some scattered light frost may have occurred to the east, but the crop is more advanced there, and any damage would be minimal.



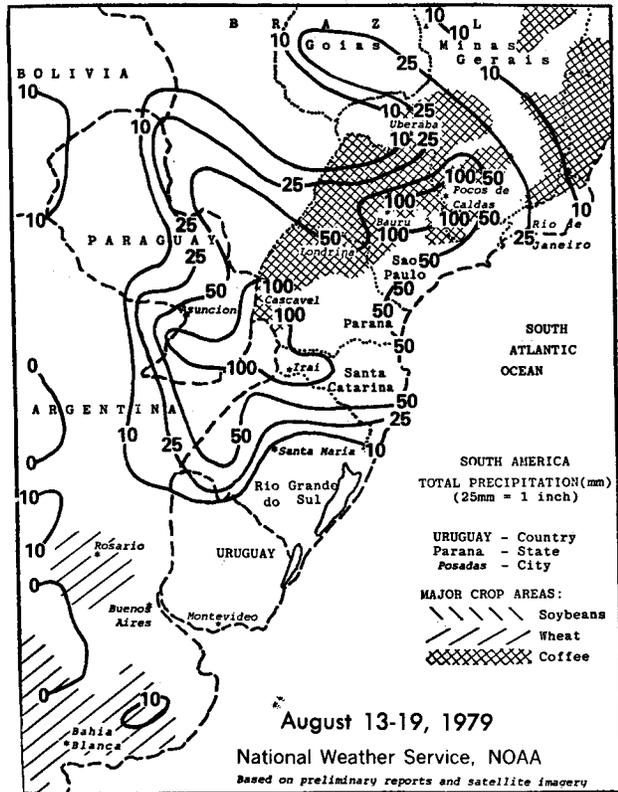


EUROPE. Abundant rains fell across eastern France, northern Italy, Yugoslavia, and Romania, bringing substantial relief to maize crops in France and Italy. Conditions had been especially dry in Italy. Continued above-normal rains in the United Kingdom and West Germany again interfered with grain harvesting, and the delays in the latter area may be hindering grain quality.

CHINA. Abundant rainfall continued in a variable pattern over most crop areas, and totals so far in August should be well above normal in nearly all areas. Even some dry, double-crop rice areas in Hunan and Jiangxi received relief. Generally, rainfall was not excessive, but harvesting operations were probably disrupted in some areas (such as cotton in Hunan and Hubei). The spring wheat harvest in the north should be nearly complete.



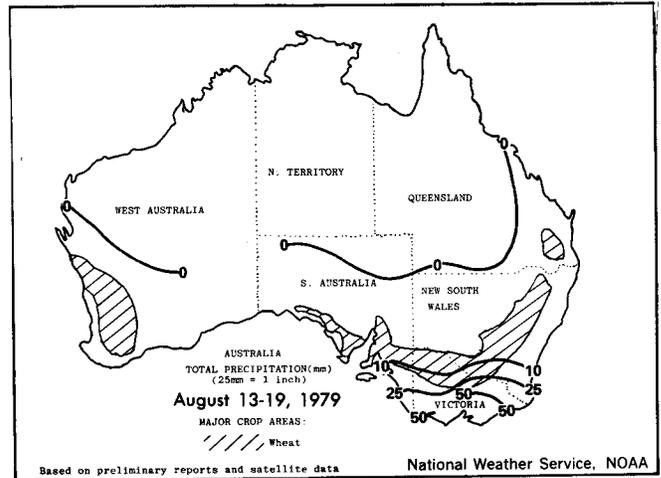
INDIA. Only the southwest coast and the northeast received normal rainfall or greater last week. This improved rice-crop prospects in northern Bangladesh and parts of the Ganges Plain, but other parts, especially to the west near Delhi, remained deficient in rainfall. The rice crop in the west is developing with barely adequate water supplies. Parched Andhra Pradesh stayed nearly dry again last week. Even though much of the crop there is irrigated with water from an extensive inland area, most of the watershed has remained deficient so far this growing season.



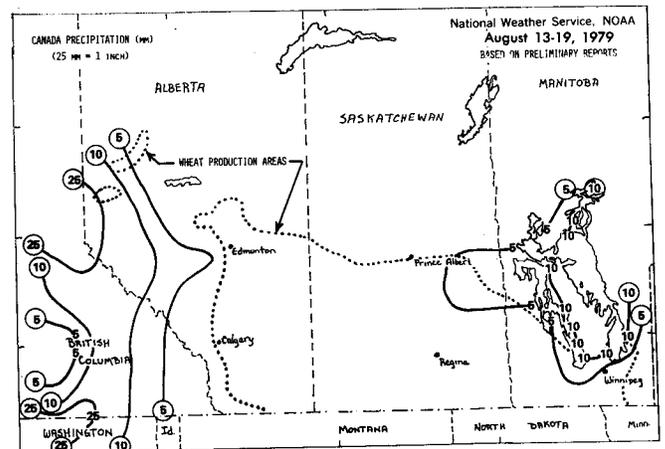
S. AMERICA. Rainfall in dry portions of the wheat area in southwestern Buenos Aires Province dropped to normal or less again. Conditions there appear to be marginal. If soil preparation were possible after last week's rains, some planting may have been accomplished, but soil moisture cannot be considered adequate for normal germination and development. Other parts of the wheat-growing area remain in satisfactory condition. In Brazil, the rain pattern normally centered in Rio Grande do Sul shifted northward last week, bringing abundant, above-normal rains to major coffee and northern soybean areas. This early start of rains will do much to assure successful flowering in the coffee groves during the coming months.

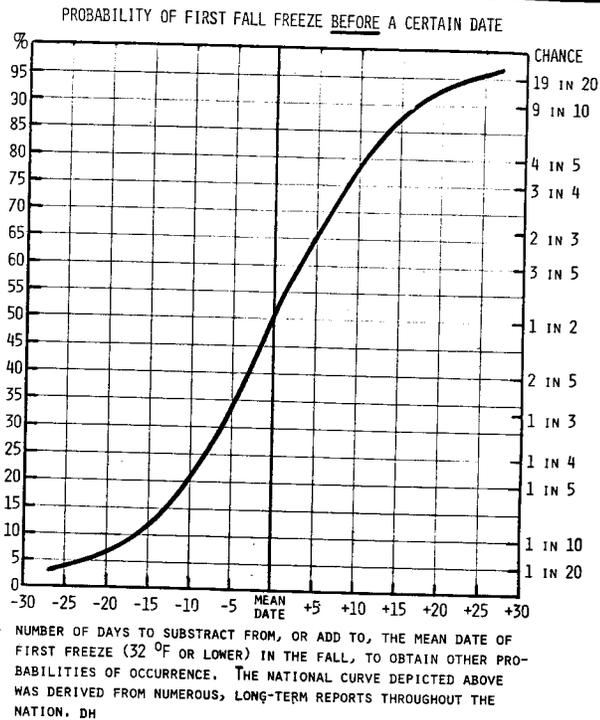
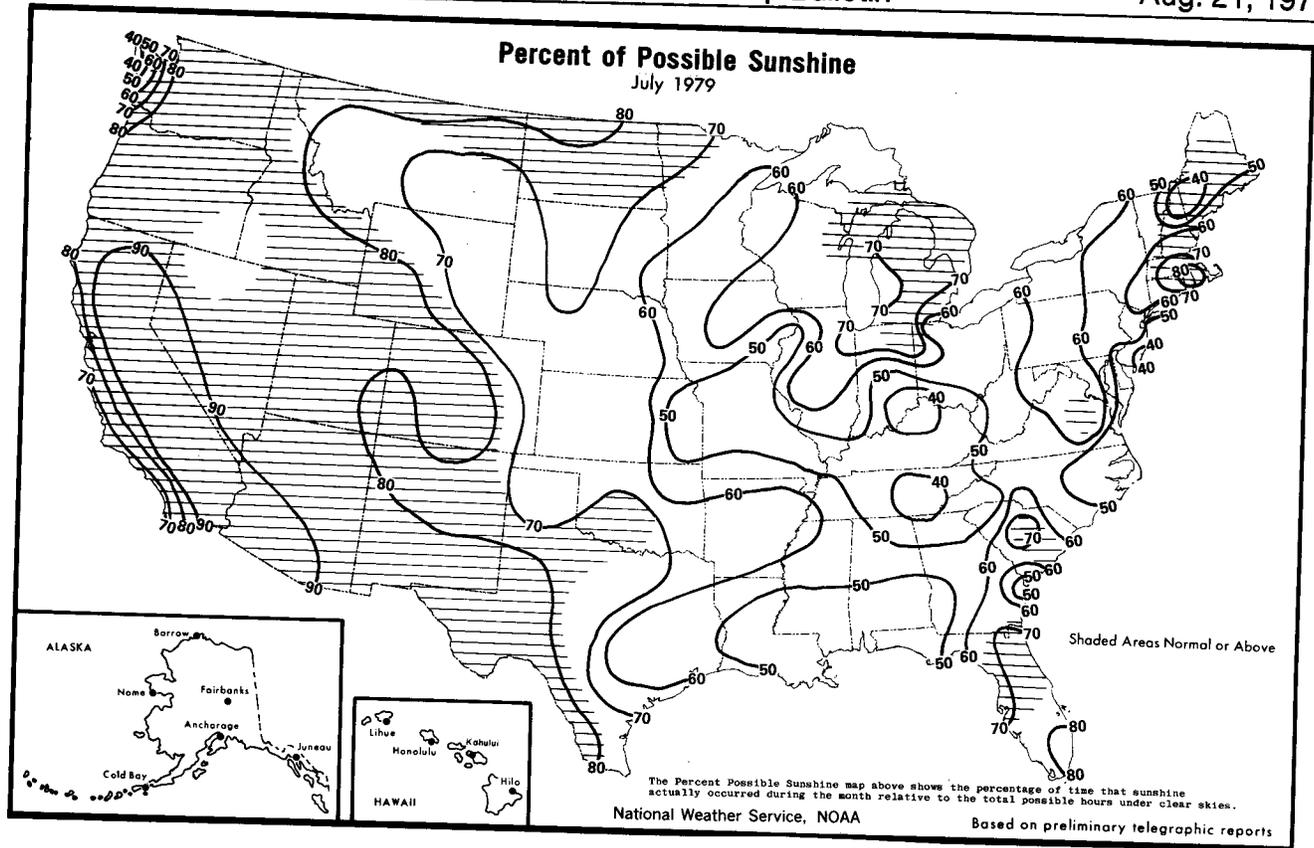
CANADA. Only light rains fell in grain areas of the Prairie Provinces, as harvest activity picked up in the south. Frost whitened eastern Saskatchewan on the 14th. It may have cut off late filling of grains, and it did hurt some rapeseed there. Half of the rapeseed crop is grown in Alberta, where no frost occurred; initial estimates show about a 10 percent drop in total production.

AUSTRALIA. Rainfall in southern grain areas of Victoria improved slightly and two-week totals approached normal; however, most of the crop area in southeastern Australia received only light, insufficient amounts. Temperatures are warming, and the crop will need much more water in order to develop normally. Rainfall of 25 mm was reported in West Australia, where the crop was suffering the most. Substantial losses had already been sustained, but these rains, followed by addition normal amounts, may produce an average crop.

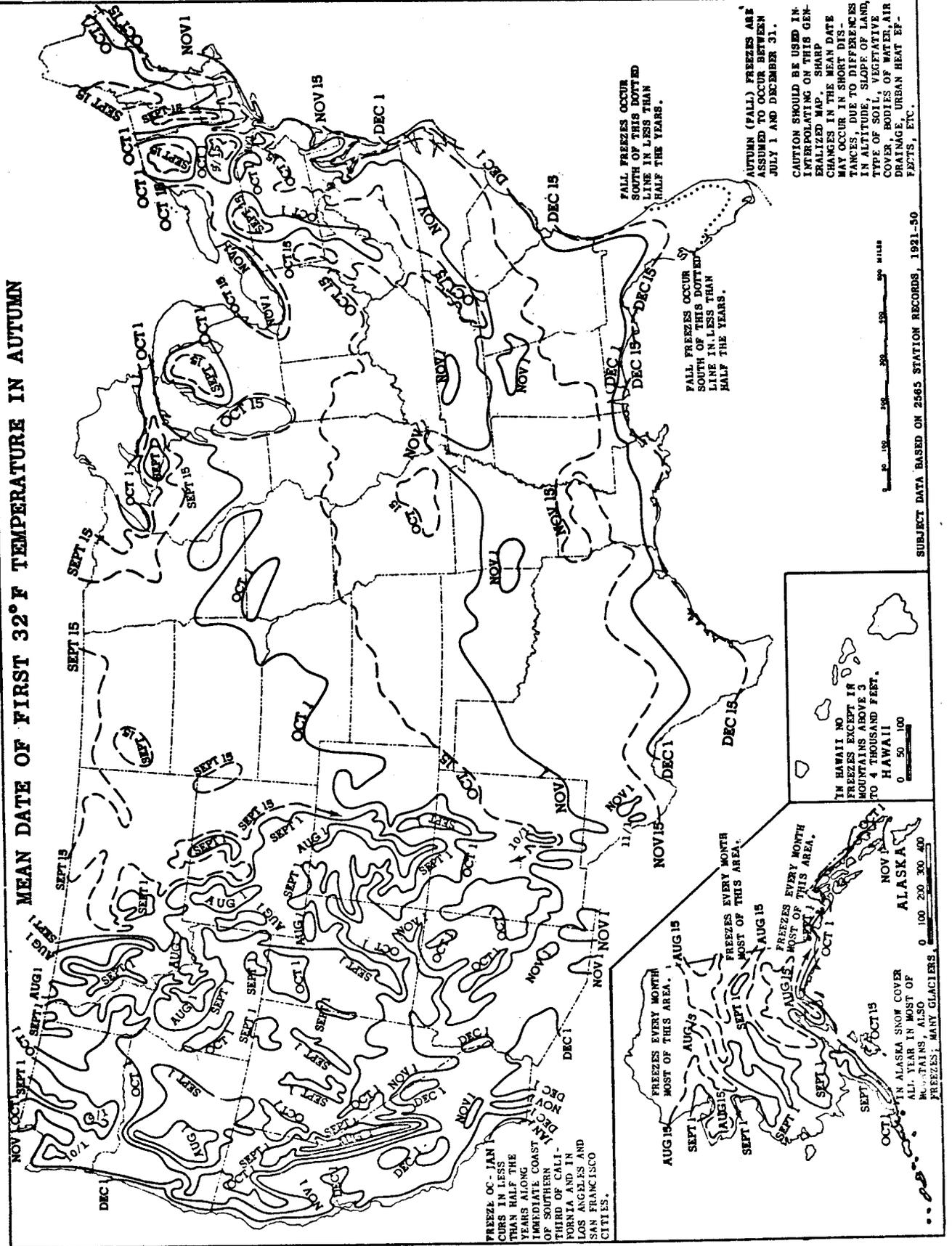


AFRICA. The Sahelian countries received below-normal rainfall for the second consecutive week. This may not have produced any significant problems, however, because rainfall in recent weeks has been adequate, and the end of the growing season is approaching. In South Africa, early rain in the Maize Triangle benefited the wheat crop and replenished soil moisture supplies for the coming planting of maize.





MEAN DATE OF FIRST 32°F TEMPERATURE IN AUTUMN



FREEZE OCT - JAN IN LESS THAN HALF THE YEARS ALONG IMMEDIATE COAST OF SOUTHERN CALIFORNIA AND IN LOS ANGELES AND SAN FRANCISCO CITIES.

FALL FREEZES OCCUR SOUTH OF THIS DOTTED LINE IN LESS THAN HALF THE YEARS.

FALL FREEZES OCCUR SOUTH OF THIS DOTTED LINE IN LESS THAN HALF THE YEARS.

AUTUMN (FALL) FREEZES ARE ASSUMED TO OCCUR BETWEEN JULY 1 AND DECEMBER 31.

CAUTION SHOULD BE USED IN INTERPOLATING ON THIS GENERALIZED MAP. SHARP CHANGES IN THE MEAN DATE MAY OCCUR IN SHORT DISTANCES, DUE TO DIFFERENCES IN ALTITUDE, SLOPE OF LAND, TYPE OF SOIL, NEGATIVE AIR COVER, ROUTES OF WINDS, DRAINAGE, URBAN HEAT EFFECTS, ETC.

IN HAWAII NO FREEZES EXCEPT IN MOUNTAINS ABOVE 3 TO 4 THOUSAND FEET.

FREEZES EVERY MONTH MOST OF THIS AREA. AUG 15 SEPT 15 AUG 15 SEPT 15

FREEZES EVERY MONTH MOST OF THIS AREA. AUG 15 SEPT 15 AUG 15 SEPT 15

IN ALASKA SNOW COVER ALL YEAR IN MOST OF MOUNTAINS, ALSO FREEZES, MANY GLACIERS

SUBJECT DATA BASED ON 2565 STATION RECORDS, 1921-50

CROP DEVELOPMENT
FOR WEEK ENDING AUGUST 19

CORN DOUGH STAGE			
	1979	1978	AVG.
COLO	NA	NA	NA
GA	NA	NA	NA
ILL	75	73	78
IND	75	70	70
IOWA	47	62	70
KANS	65	60	75
KY	75	NA	NA
MICH	30	50	48
MINN	11	42	52
MO	73	38	73
NEBR	50	45	70
NC	NA	NA	NA
OHIO	30	40	45
PA	40	NA	39
S DAK	43	45	47
VA	NA	NA	NA
WISC	20	40	37
CORRECTION FOR W/E AUGUST 12			
IND	45	45	NA

SOYBEAN POD SET			
	1979	1978	AVG.
ALA	68	57	59
ARK	95	100	NA
GA	NA	NA	NA
ILL	83	81	81
IND	70	70	75
IOWA	97	92	93
KANS	65	60	65
KY	NA	NA	NA
LA	73	77	NA
MICH	60	68	72
MINN	69	91	91
MISS	56	63	58
MO	54	48	58
NEBR	80	90	100
NC	32	NA	NA
OHIO	40	45	50
SC	NA	NA	NA
TENN	48	60	48

RICE			
	1979	1978	AVG.
ARK	1/	NA	NA
CALIF	0	0	0
LA	41	58	51
MISS	6	10	NA
TEX	84	85	80
5 STATES	22	26	25
THESE 5 STATES PRODUCED 99% OF THE 1978 RICE CROP.			

HARVEST PROGRESS
FOR WEEK ENDING AUGUST 19

WINTER WHEAT			
	1979	1978	AVG.
CALIF	100	NA	NA
COLO	100	100	100
IDAHO	60	50	40
ILL	100	100	100
IND	100	100	100
KANS	100	100	100
MO	100	100	100
MONT	80	65	70
NEBR	100	100	100
OHIO	100	100	100
OKLA	100	100	100
OREG	92	NA	NA
S DAK	94	100	100
TEX	100	100	100
WASH	89	72	NA
15 STATES	97	95	96
THESE 15 STATES PRODUCED 91% OF THE 1978 WINTER WHEAT CROP.			

SPRING WHEAT			
	1979	1978	AVG.
IDAHO	25	20	20
MINN	11	59	58
MONT	10	15	30
N DAK	31	45	60
S DAK	58	74	92
5 STATES	27	45	57
THESE 5 STATES PRODUCED 95% OF THE 1978 SPRING WHEAT CROP EXCLUDING DURUM.			

GRAIN SORGHUM HEADED			
	1979	1978	AVG.
COLO	60	76	NA
KANS	65	55	60
MO	78	71	79
NEBR	90	90	100
OKLA	60	60	85
S DAK	78	78	74
TEX	91	NA	NA

NA NOT AVAILABLE
1/ LESS THAN 5%



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.

THE WEST CONTINUES TO BENEFIT FROM THE SEASONAL SHOWER ACTIVITY. THE INCREASED CROP MOISTURE WILL HELP PASTURE CONDITIONS AND LESSEN FIRE DANGER. NEW MEXICO HAD GOOD SHOWER ACTIVITY OVER THE STATE THAT SHOULD HAVE IMPROVED THE CROP MOISTURE CONDITION, HOWEVER THE DATA WAS NOT RECEIVED IN TIME FOR THE COMPUTATION. EXCESSIVE CROP MOISTURE IN THE NORTHERN IOWA AND CENTRAL INDIANA AREAS HAS LEFT STANDING WATER.

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

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



CONTENTS

	PAGE
NATIONAL WEATHER SUMMARY	1
NATIONAL AGRICULTURAL SUMMARY	3
WEATHER DATA FOR SELECTED CITIES	4
STATE SUMMARIES OF WEATHER AND AGRICULTURE	7
INTERNATIONAL WEATHER AND CROP SUMMARY	13
PERCENT OF POSSIBLE SUNSHINE	16
FREEZE PROBABILITY BEFORE CERTAIN DATE	16
MEAN DATE OF FIRST FALL FREEZE	17
CROP DEVELOPMENT AND HARVEST PROGRESS	18
CROP MOISTURE INDEX	19

Publication of the Weekly Weather and Crop Bulletin began in 1872 as the Weekly Weather Chronicle. It is issued under general authority of the Act of January 12, 1895 (44USC 213), 53d Congress, 3d Session. Contents of the Bulletin may be reprinted freely, with proper credit.

Standard copy for the Bulletin is prepared by Donald J. Haddock, Lyle Denny, and O. W. Byrd, Climate Analysis Center, National Weather Service,

National Oceanic and Atmospheric Administration; Harry DeLong and Jim Carlin, Economics, Statistics, and Cooperatives Service, U.S. Department of Agriculture.

Yearly subscription rate: \$13.00 domestic and \$18.00 foreign airmail. Order from the Agricultural Weather Facility, USDA South Building, Room 1248, Washington, D.C. 20250. Make checks payable to Department of Commerce, NOAA.