

# WEEKLY WEATHER AND CROP BULLETIN

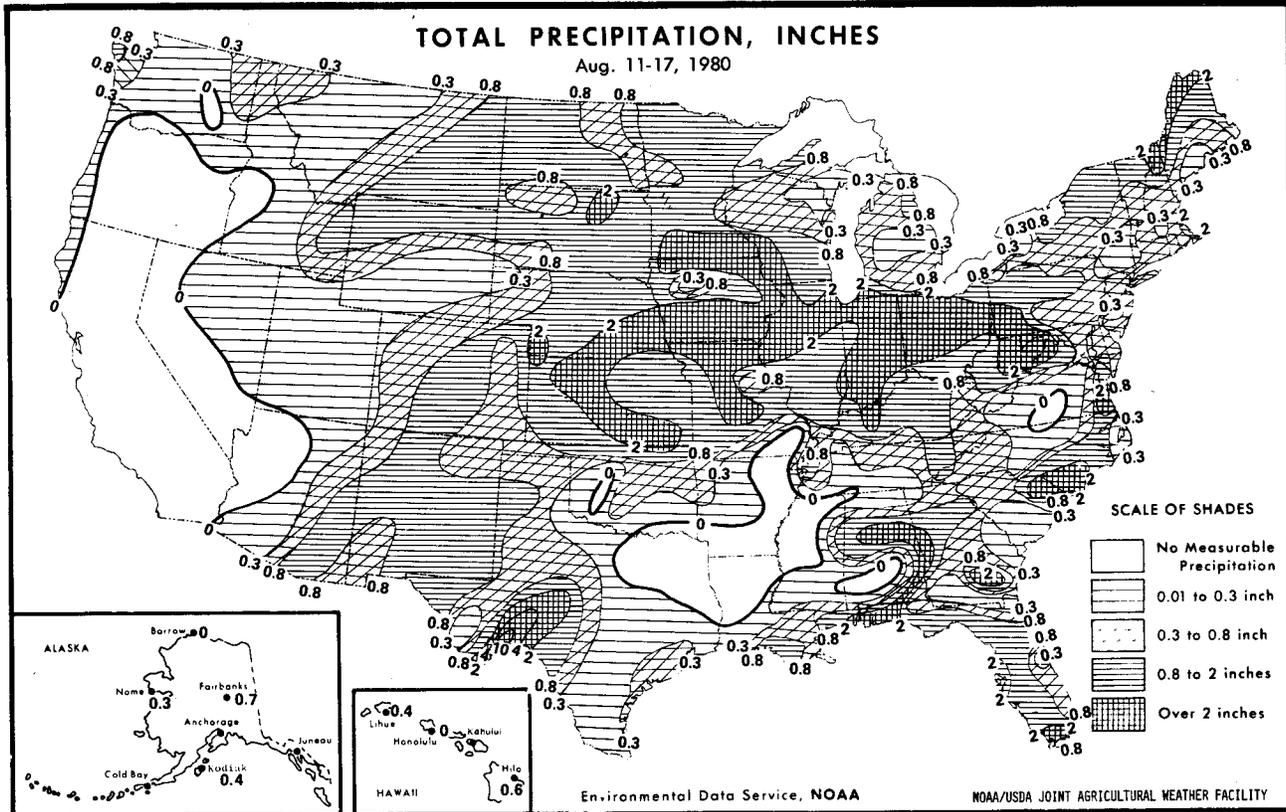
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## National Weather Summary

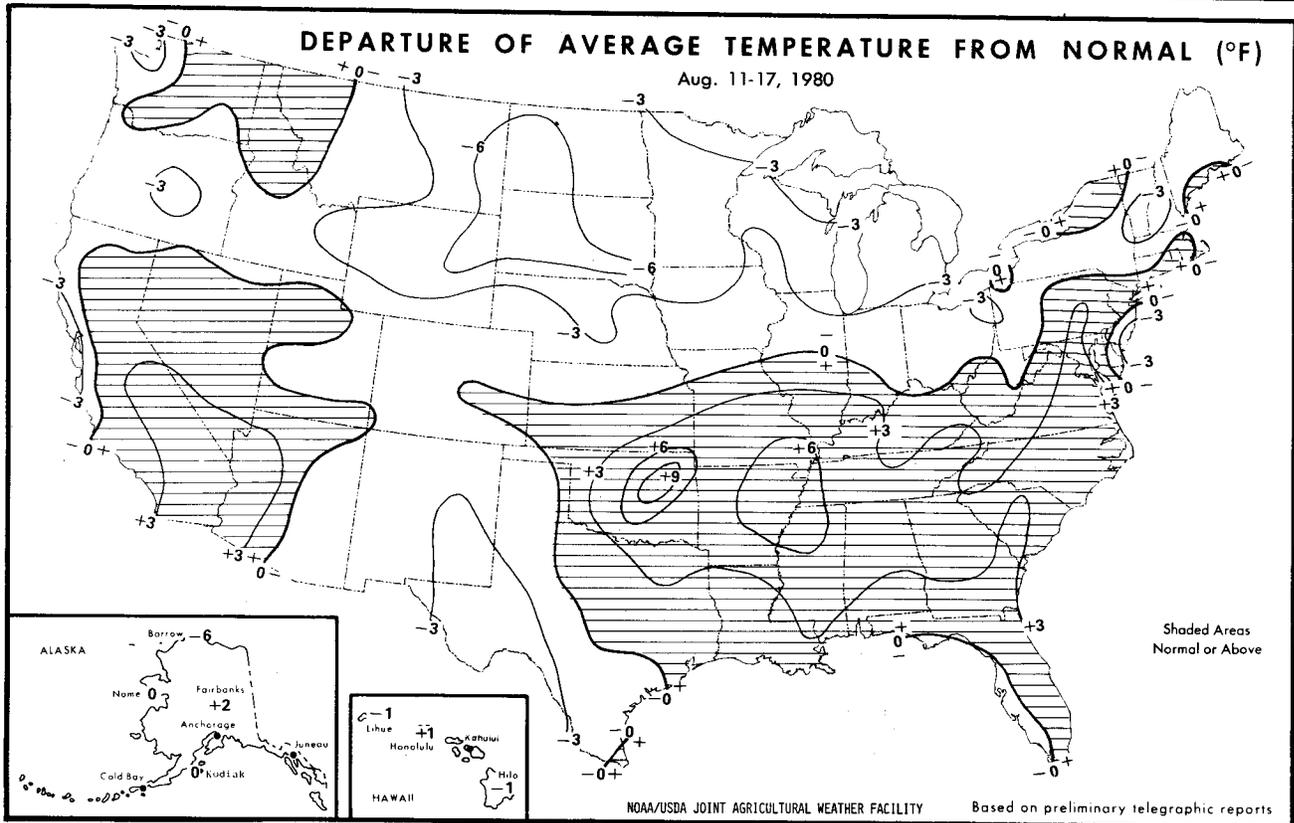
August 11 - 17

**HIGHLIGHTS:** Showers and thunderstorms were widespread from the Rockies to the East Coast and over much of the Plateau Region of the West. The remains of Hurricane Allen caused heavy showers in Southwest Texas early in the week, but moist flow from the south and a slow-moving frontal system accounted for most of the rain. Some previously dry sections of the southern central Plains and lower Ohio Valley received a good soaking during the week. Temperatures were generally hot from the southern central Plains southward and from the mid-Atlantic States southward, but the latter area cooled pleasantly by the end of the week.

**MONDAY...**Tropical depression Allen, now in northern Mexico, produced thunderstorms with heavy rain across southwestern Texas as well as northern Mexico. Lighter showers fell over much of Texas

and southeastern New Mexico. Warm, moist flow from the gulf caused showers and thunderstorms through Alabama and northward. A cold front from New England to Lake Erie and to southern Illinois produced widespread showers and thunderstorms in the Ohio Valley and northward through the Lakes. Temperatures remained warm south of the Ohio Valley and central Plains but were cooler north of these areas.

**TUESDAY...**Another frontal system moved into the northern Plains and upper Mississippi Valley, as the previous front moved through New England and off the East Coast. Light showers fell throughout most of the Plains, but some severe weather occurred with moderate to heavy showers in northern Iowa and southern Minnesota. Showers and thunderstorms stretched from eastern North Carolina to Florida and Alabama. The disturbance, triggered by the



remains of Allen caused scattered showers throughout New Mexico and parts of Southwest Texas. Temperatures rose in the central Plains but cooled in the Ohio and Tennessee Valleys and in the mid-Atlantic States.

**WEDNESDAY...**The cooler Canadian air advanced to a frontal line from Michigan to the central Rockies. Showers were bunched from Ohio to the Rockies and from the upper Mississippi Valley to the western Great Lakes. Numerous thunderstorms moved through these areas. Tornadoes touched down in Iowa and Illinois, and wind and hail damaged other parts of the area. Showers and thunderstorms continued along the gulf coast and into West Texas and New Mexico. The excessively warm temperatures held from Oklahoma to Georgia, but areas to the north were cooler.

**THURSDAY...**Showers and thunderstorms covered large areas from central Arizona to New England. The heaviest concentration centered on an area from the northern Texas Panhandle to north central Illinois. The heavy amounts of precipitation, although spotty, ranged from 2 to 4 inches. The slow-moving cold front formed the leading edge of the activity. Late in the day, needed rain fell in Colorado and Kansas and extended northward through the Rockies. Moderate flooding occurred in parts of Colorado during the evening. Elsewhere, thunderstorms broke out in the Southeast and along the gulf coast. Although it was a day of widespread thunderstorms, there were few reports of damage. However, gusts to 60 mph raced through Georgia and in Arizona. Hot weather continued in the mid-Atlantic States and in the South.

**FRIDAY...**A low pressure center in Wyoming deepened and began moving eastward causing the western portion of the cold front to move slowly northward as a warm front. Rain, in the form of showers and

thunderstorms, spread northward through the Plains and Rockies. The cold front, accompanied by showers and thunderstorms, moved into the Atlantic States, the lower Ohio Valley, and to the warm front in the central Plains. Locally heavy rain caused flooding in Kentucky and threatened parts of southeastern Montana. Some of the heavier rain fell in Kansas, Nebraska, Iowa, and in southern Illinois where the moisture was badly needed for the maturing corn and soybeans. Some relief from the high temperatures began in the mid-Atlantic States, but it remained warm through most of the South.

**SATURDAY...**The frontal system extended from South Carolina to a low pressure center in South Dakota. Thunderstorms spread along and ahead of the front and across much of the Great Lakes and the Ohio Valley. Thunderstorms spawned two tornadoes in Kansas where damage to buildings was reported. Thunderstorms extended from the Carolinas into Louisiana and Florida. Widely scattered showers persisted in the central and northern Rockies, and another frontal system was moving on to the coast of the Pacific Northwest. Cooler weather pushed into the Carolinas, but warm temperatures edged northward into the central Plains.

**SUNDAY...**The frontal system reached from Georgia to a low in Minnesota and then southward to New Mexico. Showers and thunderstorms continued on both sides of the fronts, and some heavy amounts of rain fell. Downpours caused flooding in Nebraska, Missouri, and Illinois. Further south, heavy thunderstorms in the Big Bend area of Southwest Texas caused flash floods. Meanwhile, light rain was falling in the western part of Washington State. The cooler weather advanced into the Southeast, but a wedge of warm air extended northward through Arkansas.

## National Agricultural Summary

August 11 - 17

**HIGHLIGHTS:** Rains delayed small grain and hay harvests but helped restore soil moisture supplies and benefited row crops. All parts of the Nation except the West received rains with heaviest amounts falling throughout the Corn Belt. Above-normal temperatures were limited to the North, parts of the West, and western Texas. Farmers in the West and the south central region had 5 to 7 days suitable for fieldwork, while in the south Atlantic States, only 4 to 6 days were available. In the north central and north Atlantic States, fieldwork was limited to 2 to 6 days. Soil moisture supplies generally rated short to adequate in all areas except the east north central States where supplies were mostly adequate to surplus. Winter wheat combining reached 94% complete, and the spring wheat harvest advanced to 49% complete. Oats and barley harvests advanced slowly due to wet conditions. Nearly all of the corn had silked; 66% reached the dough stage and nearly 23% the dent stage. Harvesting became more widespread in the South. Soybean blooming neared completion, and 69% of the crop was setting pods. Grain sorghum heading advanced to 75% complete; coloring reached into South Dakota, while harvest advanced in the South. Cotton in nearly all areas except California and Oklahoma had finished setting bolls. Bolls were opening in many fields; progress ranged from 1% in Tennessee to 26% in Georgia. Rice heading reached 67% complete, while harvesting was 26% complete. Recent rains improved pastures and ranges with conditions reported fair to good except in parts of the Southeast, the south central region, and the West where poor to fair conditions continue. Supplemental feeding was still needed in many areas.

**CORN:** Corn rated fair to good throughout most of the Corn Belt but poor to fair in other areas of the Nation. Nearly all of the corn had silked, and 66% of the crop had reached the dough stage, ahead of last year and normal. Nearly 23% reached the dent stage, well ahead of last year but about equal to average. Harvesting gained momentum across the South and ranged from 29% in North Carolina to 38% in Texas. Fields in some areas continued to be harvested for silage rather than grain where hot, dry conditions severely stressed the crop.

**SOYBEANS:** Soybeans rated fair to good in much of the Corn Belt but rated poor to fair in other major growing areas. Nearly 93% of the crop had bloomed and 69% of the crop was setting pods. Progress was generally slightly ahead of last year and the average. Leaves began to turn color in some early planted fields.

**SMALL GRAINS:** Spring wheat harvesting advanced to 49% complete, well ahead of last year's 15% and slightly ahead of the 40% average. Harvesting neared completion in South Dakota was 38% complete in North Dakota, 30% complete in Montana and 31% complete in Idaho.

Winter wheat combining was finished in most major producing areas except the Northwest. Only Idaho, Oregon, and Washington had appreciable acreage remaining for harvest. Progress in the 15 major States reached 94% complete, compared with 96% last year.

Barley and oats combining advanced slowly due to wet conditions in many areas.

**COTTON:** Cotton rated fair to good in all producing areas except Missouri, Georgia, and South Carolina where the crop rated only poor to fair. Growth progressed rapidly with 94% of the crop setting bolls, compared to 88% a year earlier. Progress ranged from 65% in Oklahoma to 100% in Arizona, Georgia, Louisiana, and Tennessee. Bolls were opening in many fields; progress ranged from 1% in Tennessee to 26% in Georgia. In Texas, harvesting reached 11% and was moving northward. Despite recent rains, fields are still suffering with many plants dropping squares and bolls. Many modules in the Valley remained soaked from Hurricane Allen and may be lost.

**OTHER CROPS:** Grain sorghum heading advanced to 75% complete, about on schedule. Coloring edged northward into South Dakota, while harvest advanced across the South. In Texas, harvesting reached 66%, well ahead of last year's 48%. Many fields produced small, light heads while others developed so poorly they were grazed out, cut for hay, or cut for silage.

Rice heading advanced to 67% complete, while harvesting continued northward in Louisiana. In Texas, harvesting reached 99% complete, compared with 78% last year and the average of 79%. Harvesting in Louisiana reached 40% complete. Hurricane Allen did little damage to Texas.

Tobacco growers continued topping and harvesting operations.

In Idaho, 36% of the potatoes were turning color. Harvesting got underway in southern Maine.

**FRUITS:** Fruit harvests gained momentum in northern areas where peaches, plums, apples and nectarines were picked.

Florida citrus groves rated very good to excellent. Irrigation continues in drier locations.

In California, the Cling peach harvest neared completion, and the plum harvest was light due to heat. Grape harvests increased. Many Valencia oranges and grapefruit were diverted to byproducts due to softness. Almond hulls were splitting and walnuts sized well.

Arizona citrus groves generally rated good with favorable new-crop prospects.

In Texas, pecan droppage continued in most areas due to stress.

**VEGETABLES:** Growers harvested summer vegetables, and in some areas, planted fall vegetables. Land preparation for fall planting continued.

California growers harvested broccoli, carrots, celery, lettuce, peppers, tomatoes, and a number of other vegetables.

Texas growers continued to appraise what damage there was from Hurricane Allen. High winds and heavy rains had interrupted land preparation and fall planting.

**PASTURES AND LIVESTOCK:** Pastures and ranges rated fair to good except in parts of the Southeast, the south central States, and the West where poor to fair conditions continue. Supplemental feeding was still needed in many areas. Recent rains should improve growth.

Weather Data for the Week Ending Aug. 17, 1980

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 2	PCT. NORMAL SINCE June 2	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE °F		PRECIPITATION	
														90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	95	73	97	70	84	0	2.4	1.4	.9	7.6	66	96	50	7	0	3	3
MOBILE	90	75	93	73	83	0	4.6	3.1	1.3	14.0	75	92	59	5	0	6	4
MONTGOMERY	93	75	95	74	84	3	T	.7	0	6.1	55	89	50	7	0	0	0
AK ANCHORAGE	60	49	68	42	54	2	1.2	.7	.6	7.5	170	80	64	0	0	6	1
BARROW	34	30	36	24	32	-6	0	.2	0	1.1	58	84	80	0	5	0	0
FAIRBANKS	69	48	85	44	58	2	.7	.2	.3	3.2	68	82	58	0	0	5	0
KODIAK	60	48	62	42	55	0	.4	.5	.2	2.9	30	91	72	0	0	2	0
NOME	57	43	64	37	50	0	.3	.5	.2	6.4	121	91	73	0	0	3	0
AZ FLAGSTAFF	81	53	91	40	67	4	T	.6	--	3.7	82	80	29	1	0	0	0
PHOENIX	102	81	108	77	92	--	.1	.2	.1	.6	38	49	24	7	0	1	0
TUCSON	95	72	102	68	83	-1	1.1	.5	.7	3.3	82	74	29	6	0	3	1
WINSLOW	90	61	99	55	75	-1	.5	.1	.4	2.4	100	--	--	4	0	3	0
YUMA	105	80	110	72	92	-1	T	T	0	0	63	--	--	7	0	1	0
AR FORT SMITH	100	74	104	69	87	5	.6	0	.6	5.2	61	84	52	7	0	1	1
LITTLE ROCK	99	76	101	74	88	7	.1	.5	.1	1.4	16	78	37	7	0	1	0
CA BAKERSFIELD	97	69	105	63	83	1	0	0	0	0	0	--	22	6	0	0	0
EUREKA	60	51	62	50	56	-2	T	.1	T	.5	50	97	76	0	0	1	0
FRESNO	97	64	105	58	81	2	0	0	0	0	0	55	22	5	0	0	0
LOS ANGELES	78	66	82	64	72	-2	0	0	0	0	--	82	59	0	0	0	0
RED BLUFF	97	64	103	60	81	0	0	0	0	1.2	240	--	--	2	6	0	0
SAN DIEGO	78	71	82	70	75	3	0	0	0	0	--	82	66	0	0	0	0
SAN FRANCISCO	67	52	73	50	59	-4	T	0	T	.1	50	87	57	0	0	0	0
STOCKTON	93	60	101	58	77	1	0	0	0	5.0	500	75	31	5	0	0	0
CO DENVER	84	60	95	52	72	-0	1.0	.7	1.0	4.2	95	71	31	1	0	2	1
GRAND JUNCTION	90	60	97	56	75	-0	.4	.1	.3	1.4	93	59	19	4	0	2	0
PUEBLO	89	62	97	57	76	1	2.3	1.8	2.1	3.6	80	75	32	3	0	3	1
CT BRIDGEPORT	80	66	85	57	73	-0	.4	.5	.3	9.5	119	89	60	0	0	3	0
HARTFORD	80	61	85	50	70	-1	.8	.1	.6	8.9	99	89	53	0	0	4	1
DC WASHINGTON	91	72	100	64	82	4	.5	.6	.5	6.3	62	82	44	4	0	1	1
FL APALACHICOLA	89	74	91	71	82	0	2.0	.2	1.4	14.0	80	98	62	5	0	2	2
DAYTONA BEACH	90	74	92	73	82	1	1.9	.4	1.9	11.3	67	94	57	4	0	2	1
FORT MYERS	90	75	95	73	83	-0	1.8	.1	0	14.4	66	99	63	4	0	3	0
JACKSONVILLE	94	74	98	73	84	3	.2	-1.6	.1	11.2	64	96	54	6	0	3	0
KEY WEST	89	81	91	75	85	-0	2.1	1.2	1.9	13.7	128	80	63	3	0	2	1
MIAMI	87	78	89	74	83	-0	3.9	2.4	2.9	19.2	101	91	74	0	0	4	1
ORLANDO	93	74	96	74	84	2	.2	-1.3	.1	11.4	60	98	54	7	0	3	0
TALLAHASSEE	93	73	96	71	83	2	1.8	.3	1.2	18.9	98	92	57	5	0	3	2
TAMPA	89	75	92	74	82	-1	2.2	.4	.9	14.0	72	97	66	4	0	5	2
WEST PALM BEACH	90	77	92	75	84	2	.5	-1.0	.3	12.5	70	87	51	6	0	5	0
GA ATLANTA	94	74	99	72	84	6	.9	.1	.4	6.4	60	96	50	6	0	4	0
AUGUSTA	95	72	99	70	84	3	.1	.9	.1	6.6	58	95	46	6	0	2	0
MACON	95	74	100	72	85	4	.4	.4	.3	6.8	65	--	4	7	0	1	0
SAVANNAH	93	74	96	72	84	3	.2	-1.2	.2	6.7	39	92	54	6	0	1	0
HI HILO	--	--	--	--	75	-1	--	-2.0	--	17.4	78	--	--	--	--	--	--
HONOLULU	89	74	90	72	82	1	0	.2	0	.6	43	77	47	4	0	0	0
KAHULUI	--	--	--	--	--	--	--	.1	0	0	0	--	--	--	--	--	--
LIHUE	--	--	--	--	78	-1	.4	.1	--	4.8	100	--	--	--	--	--	--
ID BOISE	88	55	96	50	72	-1	T	.1	0	.3	20	55	17	3	0	0	0
LEWISTON	88	60	96	55	74	2	.1	0	.1	2.0	74	51	26	3	0	1	0
POCATELLO	84	50	95	44	67	-3	.9	.8	.6	2.4	126	68	19	2	0	2	1
IL CAIRO	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CHICAGO	75	63	78	57	69	-3	3.6	2.9	1.6	12.2	124	86	70	0	0	5	2
MOLINE	80	64	88	60	72	-1	4.3	3.6	2.8	14.8	136	94	66	0	0	5	2
PEORIA	81	65	89	62	73	-1	3.7	3.1	1.9	13.8	153	96	58	0	0	5	3
ROCKFORD	76	61	81	59	69	-3	1.9	1.1	.4	13.2	122	92	66	0	0	3	0
SPRINGFIELD	86	67	92	63	77	2	1.9	1.3	1.3	5.9	63	98	63	2	0	4	1
IN EVANSVILLE	91	72	99	67	81	5	1.9	1.2	1.3	12.6	142	89	52	5	0	3	2
FORT WAYNE	77	62	80	56	70	-2	3.6	2.9	1.3	9.8	105	94	68	0	0	6	4
INDIANAPOLIS	82	65	88	60	74	0	3.5	2.9	2.4	12.5	134	90	65	0	0	6	3
SOUTH BEND	76	62	78	57	69	-3	4.2	3.4	1.9	11.5	125	91	68	0	0	4	3
IA BURLINGTON	81	66	91	61	73	-2	5.5	4.7	1.7	18.6	182	--	--	1	0	5	3
DES MOINES	80	64	87	60	72	-2	3.9	3.1	2.0	11.5	116	84	64	0	0	7	3
DUBUQUE	76	62	80	57	69	-2	3.0	2.1	.9	12.8	110	90	58	0	0	5	2
SIoux CITY	80	63	83	58	71	-3	1.1	.4	.9	5.4	58	82	58	0	0	4	1
KS CONCORDIA	88	68	99	63	78	0	1.3	.6	.9	4.6	47	88	69	3	0	3	1
DODGE CITY	91	69	98	67	80	1	1.2	.6	.7	6.7	68	81	49	4	0	2	1
GOODLAND	84	62	95	57	73	-2	1.9	1.4	1.1	11.5	169	81	44	2	0	3	2
TOPEKA	86	70	96	65	78	0	1.3	.3	.7	5.7	47	96	68	1	0	3	1
WICHITA	93	73	101	69	83	3	3.0	2.3	2.8	5.4	51	76	47	4	0	4	1
KY LEXINGTON	84	69	93	64	77	1	1.3	.5	1.1	10.4	93	87	58	2	0	2	1
LOUISVILLE	87	71	97	67	79	3	1.9	1.2	.8	12.4	132	85	56	3	0	5	2

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

Weather Data for the Week Ending Aug. 17, 1980

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 2	PCT. NORMAL SINCE June 2	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERA- TURE °F		PRECIPI- TATION	
														90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
LA BATON ROUGE	92	74	92	73	83	1	.4	-.6	.3	13.9	107	99	56	7	0	3	0
LA LAKE CHARLES	91	75	92	74	83	1	.2	-.9	.2	9.9	70	91	55	6	0	2	0
LA NEW ORLEANS	94	77	96	76	85	3	.6	-.5	.4	9.5	67	79	60	7	0	3	0
LA SHREVEPORT	99	74	100	72	86	3	.1	-.5	-.1	4.5	60	93	37	7	0	1	0
ME CARIBOU	72	54	80	48	63	0	1.2	-.4	.6	9.5	101	96	57	0	0	4	1
ME PORTLAND	76	59	88	54	68	1	.2	-.4	.1	6.2	87	76	55	0	0	3	0
MD BALTIMORE	87	67	98	58	77	2	.5	-.5	.4	10.2	101	87	43	3	0	1	0
MA BOSTON	80	65	88	60	72	1	.8	0	.4	6.4	83	82	50	0	0	4	0
MA CHATHAM	76	64	81	60	70	--	1.2	-.4	.7	5.5	71	85	59	0	0	3	1
MI ALPENA	72	54	77	50	63	-2	1.2	-.6	1.2	8.3	120	--	--	0	0	1	1
MI DETROIT	76	61	79	55	68	-3	.4	-.4	.2	13.3	160	85	61	0	0	3	0
MI FLINT	73	57	79	49	65	-3	.5	-.3	.5	9.9	122	96	60	0	0	3	0
MI GRAND RAPIDS	76	57	84	51	67	-4	.2	-.3	.1	10.1	131	95	62	0	0	3	0
MI HOUGHTON LAKE	72	52	79	45	62	-4	.6	-.1	.6	5.8	75	94	60	0	0	1	1
MI LANSING	75	59	81	47	67	-3	.4	-.2	-.2	6.1	81	98	65	0	0	2	0
MI MARQUETTE	68	53	71	44	61	-5	.4	-.3	-.2	8.1	103	94	58	0	0	4	0
MI MUSKEGON	73	58	79	51	66	-4	.5	-.1	.4	9.8	151	93	65	0	0	4	0
MI SAULT STE. MARIE	71	52	79	50	62	-2	.7	0	.6	7.8	104	100	57	0	0	3	1
MN DULUTH	69	52	74	45	60	-5	1.2	-.3	.4	8.6	85	87	65	0	0	6	0
MN INT'L FALLS	74	54	78	48	64	0	1.1	-.3	.6	5.5	57	89	44	0	0	4	1
MN MINNEAPOLIS	77	58	81	54	68	-4	.3	-.4	.3	8.6	92	87	47	0	0	4	0
MN ROCHESTER	75	57	80	54	66	-3	2.1	1.3	1.2	8.6	83	93	60	0	0	3	2
MN SAINT CLOUD	73	54	78	49	64	-6	.8	-.1	.6	11.5	117	91	--	0	0	4	1
MS JACKSON	98	74	100	73	86	5	.2	-.6	.2	5.2	54	95	42	7	0	1	0
MS MERIDIAN	99	72	101	70	85	4	T	-.9	T	7.5	68	97	47	7	0	1	0
MO COLUMBIA	89	71	92	67	80	4	.4	-.3	.2	4.2	42	83	47	5	0	3	0
MO KANSAS CITY	85	70	94	65	77	0	.8	0	.4	8.5	72	82	63	1	0	5	0
MO SAINT LOUIS	91	73	96	70	82	4	1.9	1.3	1.4	8.5	88	89	49	5	0	4	1
MO SPRINGFIELD	93	72	97	66	83	5	.8	-.2	.6	5.4	56	79	44	6	0	3	1
MT BILLINGS	81	57	90	55	69	-2	.8	-.6	.4	3.0	81	67	34	1	0	3	0
MT GLASGOW	79	53	85	47	66	-4	.8	-.4	.7	4.0	78	93	38	0	0	2	1
MT GREAT FALLS	78	54	84	51	66	-2	.2	0	.1	4.7	98	77	34	0	0	2	0
MT HAVRE	78	53	84	47	66	-3	1	-.1	T	3.7	84	85	37	0	0	3	0
MT HELENA	79	53	85	49	66	-1	1	-.1	.1	5.2	133	78	29	0	0	1	0
MT KALISPELL	80	50	85	44	65	2	.3	0	.2	4.0	95	89	37	0	0	3	0
MT MILES CITY	78	59	89	52	68	-5	1.2	-.9	1.0	5.1	93	69	42	0	0	2	1
MT MISSOULA	85	49	88	47	67	1	T	-.2	T	3.5	57	87	28	0	0	1	0
NE GRAND ISLAND	83	64	93	60	73	-2	2.6	2.6	1.3	8.6	391	87	51	1	0	3	3
NE LINCOLN	85	67	95	64	76	0	3.4	2.7	1.4	9.2	93	89	57	3	0	5	2
NE NORFOLK	82	64	89	60	73	-2	1.8	1.2	1.3	8.1	85	86	47	0	0	4	1
NE NORTH PLATTE	85	59	100	51	72	-2	1.5	1.0	1.3	4.5	58	86	39	1	0	4	1
NE OMAHA	80	67	90	61	73	-2	5.4	4.5	2.5	16.0	148	96	59	1	0	3	3
NE VALENTINE	82	57	97	53	70	-3	1.3	-.7	1.1	5.4	72	85	34	1	0	3	1
NV ELY	87	48	95	36	67	1	T	-.1	T	1.5	94	46	16	3	0	1	0
NV LAS VEGAS	105	77	113	69	91	--	0	-.1	0	.5	62	26	10	7	0	0	0
NV RENO	91	46	101	40	68	1	0	-.1	0	.6	60	72	18	3	0	0	0
NV WINNEMUCCA	93	45	100	39	69	1	.1	0	.1	.6	40	39	11	5	0	1	0
NH CONCORD	76	53	83	45	65	-3	.6	0	.5	8.9	113	97	51	0	0	2	1
NJ ATLANTIC CITY	80	61	87	50	70	-3	1.7	-.5	1.2	8.2	77	96	57	0	0	3	1
NJ TRENTON	83	68	--	--	76	2	1.3	-.3	.6	8.4	81	--	--	1	0	3	1
NM ALBUQUERQUE	88	63	92	60	76	-1	1.8	1.5	1.8	2.7	93	72	28	4	0	1	1
NM ROSWELL	86	64	95	59	75	-4	1.6	1.2	.7	2.0	50	--	--	3	0	4	1
NY ALBANY	76	58	81	45	67	-3	.3	-.3	.2	12.1	161	92	54	0	0	2	0
NY BINGHAMTON	74	58	77	52	66	-1	.6	-.2	.2	9.1	101	90	52	0	0	4	0
NY BUFFALO	76	60	79	54	68	0	.2	-.6	.1	12.4	175	91	56	0	0	3	0
NY NEW YORK	82	70	89	65	76	1	.6	-.5	.6	9.0	97	80	54	0	0	2	1
NY ROCHESTER	79	62	82	53	70	1	1.3	-.6	1.2	11.7	167	80	53	0	0	3	1
NY SYRACUSE	79	62	81	53	70	0	.2	-.6	.1	7.6	94	87	53	0	0	4	0
NC ASHEVILLE	87	63	91	60	75	2	.7	-.4	.4	8.0	70	51	57	1	0	5	0
NC CHARLOTTE	93	72	96	68	82	4	1	-.8	.1	5.3	50	83	44	6	0	1	0
NC GREENSBORO	90	70	94	64	80	3	T	-1.0	T	6.6	62	91	48	6	0	1	0
NC HATTERAS	86	75	88	70	80	2	.1	-1.4	0	10.4	73	86	64	0	0	0	0
NC RALEIGH	90	70	96	61	80	4	.1	-1.0	.1	7.4	64	90	49	5	0	1	0
NC WILMINGTON	94	77	97	70	85	5	2.1	-.6	1.7	10.8	61	89	49	6	0	3	1
ND BISMARCK	74	54	81	49	64	-6	1.0	.5	.9	7.2	106	89	51	0	0	2	1
ND FARGO	76	54	82	50	65	-5	.5	-.2	.5	4.2	52	87	48	0	0	2	0
ND WILLISTON	75	54	84	46	64	-5	1.1	-.7	.6	3.9	63	90	50	0	0	3	1
OH AKRON-CANTON	77	62	85	55	70	-1	2.1	1.5	1.4	13.1	149	84	57	0	0	4	1
OH CINCINNATI	82	66	92	62	74	-1	1.8	1.2	.7	13.1	138	95	66	1	0	4	1
OH CLEVELAND	75	62	82	57	69	-2	.8	-.1	.5	10.7	126	64	61	0	0	5	0
OH COLUMBUS	79	65	88	60	72	0	2.7	2.1	1.5	13.5	136	87	61	0	0	4	2
OH DAYTON	81	65	90	62	73	0	2.9	2.3	1.3	1.5	178	90	60	1	0	4	1
OH TOLEDO	76	60	82	56	68	-3	2.0	1.3	1.0	11.3	136	73	72	0	0	4	1

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

Weather Data for the Week Ending Aug. 17, 1980

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION					RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS						
	AVERAGE	MAXIMUM	MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE June 2	PCT. NORMAL SINCE June 2	AVERAGE	MINIMUM	90 AND ABOVE	32 AND BELOW	TEMPERATURE		PRECIPITATION	
																	°F	°F	.01 INCH OR MORE	.50 INCH OR MORE
OK YOUNGSTOWN	75	83	58	50	66	-3	.8	.1	.5	15.6	173	94	59	0	0	5	1			
OK OKLAHOMA CITY	101	103	76	72	88	7	.4	.2	.3	3.3	41	61	29	7	0	2	0			
OK TULSA	102	104	79	73	91	-1	.7	.1	.7	6.3	66	69	33	7	0	2	1			
OR ASTORIA	64	67	56	52	60	0	.3	0	.3	3.0	75	92	72	0	0	1	0			
OR BURNS	83	91	45	41	64	-2	T	.1	T	1.1	65	67	16	1	0	0	0			
OR MEDFORD	89	93	51	48	70	-1	0	.1	0	1.2	86	81	23	3	0	0	0			
OR PENDLETON	84	92	57	51	70	-1	T	.1	T	1.9	119	--	28	1	0	1	0			
OR PORTLAND	76	82	58	53	67	0	T	.2	T	2.5	104	83	48	0	0	0	0			
OR SALEM	79	84	49	42	64	-2	T	.1	T	2.0	95	93	42	0	0	0	0			
PA ALLENTOWN	83	89	64	56	74	2	.4	.6	.3	4.8	47	64	40	0	0	0	2			
PA ERIE	75	78	64	56	69	-1	.6	.1	.4	16.4	191	--	--	0	0	3	0			
PA HARRISBURG	83	89	63	57	73	-1	.6	.1	.4	5.6	67	91	57	1	0	3	0			
PA PHILADELPHIA	85	94	69	59	77	2	.2	.7	.1	9.2	93	81	49	1	0	3	0			
PA PITTSBURGH	78	87	63	55	70	0	2.8	2.1	.9	15.6	175	91	60	0	0	6	1			
PA SCRANTON	81	84	62	52	71	1	.2	.5	.1	9.2	99	87	44	0	0	3	0			
RI PROVIDENCE	79	84	62	57	71	0	.5	.4	.4	7.6	100	83	52	0	0	4	0			
SC CHARLESTON	92	95	76	74	84	4	.1	1.4	.1	10.3	57	92	56	6	0	2	0			
SC COLUMBIA	92	97	71	70	82	1	.3	1.0	.2	5.0	40	96	49	6	0	2	0			
SC GREENVILLE	92	94	69	65	81	2	.6	.3	.6	8.7	84	91	47	6	0	1	1			
SD ABERDEEN	78	84	56	52	67	-5	2.2	1.7	1.1	5.9	78	88	41	0	0	3	2			
SD HURON	78	85	57	52	68	-5	1.1	.6	.7	11.2	162	75	54	0	0	3	1			
SD RAPID CITY	77	87	56	50	66	-6	1.0	.6	.4	8.2	122	85	47	0	0	3	0			
SD SIOUX FALLS	77	81	57	54	67	-6	1.1	.5	.6	5.7	66	87	54	0	0	2	2			
TN CHATTANOOGA	96	99	72	68	84	6	.1	.6	.1	4.2	40	93	42	7	0	2	0			
TN KNOXVILLE	93	95	72	69	82	5	1.1	.4	.8	7.1	70	92	50	6	0	3	1			
TN MEMPHIS	98	99	79	77	89	8	T	.8	T	11.5	131	75	39	7	0	0	1			
TN NASHVILLE	94	96	70	67	82	3	.5	.2	.5	7.4	83	97	46	7	0	2	0			
TX ABILENE	95	99	74	69	84	0	.8	.4	.8	2.9	46	77	34	5	0	2	1			
TX AMARILLO	89	96	65	61	77	-1	1.1	.4	.7	3.6	46	77	35	2	0	3	1			
TX AUSTIN	94	95	76	74	85	0	T	.5	T	1.5	25	88	45	7	0	2	0			
TX BEAUMONT	93	94	77	75	85	2	.1	1.2	T	3.6	26	85	56	0	0	3	0			
TX BROWNSVILLE	91	94	79	77	85	1	T	.5	T	8.7	174	92	61	6	0	0	0			
TX CORPUS CHRISTI	89	90	76	74	83	-2	1.0	.3	.9	13.1	222	92	61	2	0	2	1			
TX DEL RIO	92	94	73	66	83	-4	1.3	1.1	.7	2.9	83	90	50	6	0	3	2			
TX EL PASO	89	97	69	64	79	-2	1.4	1.1	1.0	1.9	63	61	28	3	0	4	1			
TX FORT WORTH	99	110	78	77	89	4	T	.5	T	2.0	34	70	35	7	0	0	0			
TX GALVESTON	87	89	81	79	84	1	.1	.8	.1	5.1	48	82	67	0	0	1	0			
TX HOUSTON	96	98	77	74	86	3	.4	.6	.3	3.9	36	91	43	6	0	2	0			
TX LUBBOCK	87	93	70	66	78	0	.5	.1	.5	3.6	61	74	43	2	0	3	0			
TX MIDLAND	88	98	68	62	78	-4	.8	.4	.5	2.4	56	85	42	4	0	3	0			
TX SAN ANGELO	92	97	72	67	82	-3	3.2	2.9	2.4	6.6	174	84	43	5	0	2	2			
TX SAN ANTONIO	94	97	77	76	85	0	.1	.4	.1	3.3	59	93	51	7	0	2	0			
TX VICTORIA	91	93	76	74	84	-1	.3	.4	.3	6.0	80	92	56	6	0	2	0			
TX WACO	98	100	77	76	88	2	T	.4	T	.3	6	83	38	7	0	1	0			
TX WICHITA FALLS	100	105	78	76	89	3	.1	.3	T	.4	6	67	31	7	0	2	0			
UT BLANDING	87	97	56	51	72	1	.2	.2	.1	.6	26	47	19	3	0	3	0			
UT SALT LAKE CITY	91	99	63	56	77	2	T	.2	T	1.8	72	52	18	5	0	2	0			
VT BURLINGTON	77	80	59	50	68	1	1.4	.6	.9	10.0	114	91	53	0	0	2	1			
VA LYNCHBURG	89	96	67	62	78	3	T	.9	T	5.4	56	90	--	4	0	0	0			
VA NORFOLK	90	98	73	68	82	5	4.1	2.7	4.1	6.8	54	67	42	4	0	1	1			
VA RICHMOND	92	99	70	61	81	4	.3	.9	.2	6.2	53	89	32	5	0	3	0			
VA ROANOKE	89	96	65	61	77	3	.2	.8	.1	8.4	90	79	40	4	0	2	0			
WA COLEVILLE	83	92	54	49	68	1	.5	.5	.5	3.2	400	--	--	1	0	1	1			
WA QUILLAYUTE	62	66	52	47	57	-2	.8	.2	.8	7.6	107	98	72	0	0	4	1			
WA SEATTLE-TACOMA	68	73	55	51	62	-2	.1	.1	.1	2.4	92	88	61	0	0	1	0			
WA SPOKANE	82	89	56	53	69	0	.4	.3	.3	1.7	77	77	30	0	0	1	0			
WA WALLA-WALLA	84	93	63	58	74	-1	.3	.2	.3	1.3	72	57	30	3	0	1	0			
WA YAKIMA	87	93	55	49	71	2	T	.1	T	1.1	110	67	30	3	0	1	0			
WV BECKLEY	79	87	61	57	70	1	.2	.6	.1	11.1	104	90	52	0	0	3	0			
WV CHARLESTON	84	93	65	62	74	0	1.0	.2	.8	15.2	145	94	60	1	0	4	1			
WV HUNTINGTON	85	93	67	61	76	2	.7	.1	.7	12.7	132	90	60	2	0	2	1			
WV PARKERSBURG	81	91	66	62	73	-1	.9	.1	.7	12.5	121	82	57	1	0	4	1			
WI GREEN BAY	73	78	58	53	65	-3	T	.6	T	8.2	105	96	67	0	0	4	1			
WI LA CROSSE	77	82	63	59	70	-3	2.1	1.4	1.0	11.2	118	90	66	0	0	4	2			
WI MADISON	74	80	56	51	65	-4	1.7	1.1	1.0	11.8	122	93	65	0	0	3	1			
WI MILWAUKEE	71	77	59	57	65	-5	1.2	.6	.5	12.5	149	85	69	0	0	4	1			
WY CASPER	82	88	49	45	65	-5	.1	0	.1	1.3	50	79	28	0	0	2	0			
WY CHEYENNE	79	90	53	47	66	-3	.8	.4	.8	3.2	62	80	36	1	0	2	1			
WY LANDER	79	88	52	47	66	-4	.2	.1	.2	.5	18	73	31	0	0	3	0			
WY SHERIDAN	80	91	53	46	66	-3	.9	.7	.4	2.3	53	81	38	1	0	5	0			
PR SAN JUAN	92	94	80	78	86	5	.6	-1.0	.5	5.2	33	80	58	7	0	3	0			

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:** Temperatures 4° above normal. Scattered afternoon showers daily.

Fieldwork: 5.7 days. Soil moisture short. Activity: Hay-making; corn picking; insect, weed control. Corn: 97% dented, 92% 1979, 82% average, 76% mature, 69% 1979, 48% average; 28% harvested, 27% 1979. Soybeans: 86% blooming, 84% 1979, 82% average; 60% setting pods, 63% 1979. Cotton 96% setting bolls, 96% 1979, 93% average. Peanuts 95% pegging. Condition: Corn poor, cotton fair, soybeans poor to fair; peanuts, sorghum mostly fair; pastures mostly poor.

**ALASKA:** Cool cloudy skies prevalent most of week and showers fell intermittently throughout rail-belt. Wind and rain damage to grain light. Oat fields ranged from dough stage to turning color. Most barley fields various stages of turning color. Small grain fields need warm, dry sunny days to ripen. Harvest for grains expected to get underway second week September. Second crop hay to begin August 25. New potatoes along with cabbage, lettuce radishes, and squash available at local markets. Soil moisture supplies adequate to surplus.

Tanana Valley - first two days of the week were very warm followed by near to below normal temperatures remainder of the week. Rainfall was abundant with amounts ranging from over 0.5 in. to just under 1.5 in. Seasonal precipitation remains below normal. Matanuska Valley - after a warm start the remainder of the week was cool. Over most areas, maximum temperatures averaged 2 to 4° below normal while cloudy skies kept minimum temperatures 1 or 2° above normal. 0.5 to 0.75 of an in. of rain fell and seasonal precipitation remains well above normal. Kenai Peninsula cool and wet. Temperatures averaged about 3° below normal. Rainfall for the week totaled around 1.00 in. and seasonal precipitation remains above normal, especially in the south. Kodiak Island - temperatures for the week were near normal at the beginning, below normal during the middle, and well above normal at the end. The resulting overall average temperature was slightly above normal. 0.33 in. of rain fell mostly around mid-week. Seasonal precipitation remains below normal by over 3 in.

**ARIZONA:** Wet followed by dry weather, high humidities. Thunderstorms, showers prevailed over east. Locally heavy rains, high winds, some hail. Amounts ranged upward to over 1.50 in. locally east central and southeast. Average temperatures 1° below normal to 4° above normal.

Cotton developing well, 100% stands setting bolls. Limited harvest stub cotton in progress. Insect controls continue lighter than normal. Sorghum making good progress. Corn in soft dough stage. Alfalfa haying making good progress, southwest area 6th cutting, other areas mostly 4th. Harvest spring, summer cantaloups, watermelons complete. Land preparation for fall vegetables, melons continues. Lemon harvest limited scale. Citrus groves generally good condition. New crop prospect looking good. Rangeland showed little change. Southern ranges very poor to fair condition, fair to good in north. Livestock fair to good. Water short south and adequate north.

**ARKANSAS:** Temperatures well above normal. Little rain. Highest temperature 107°, lowest 63°. All departures from normal ranged from +3 to +8°. Most rainfall 2.00 in., least zero.

Soil moisture short. Fieldwork possible 7.0 days. Irrigated soybeans good condition, remainder stressed, poor condition. Plants shedding leaves, blooms, pods. Blooming 65%. Rice 53% headed. Harvest began in some counties. Cotton setting bolls 98%, 95% 1979, 99% average. Some fields beyond recovery. Corn, sorghum harvest began. Heavy insect damage southeastern district. Cattle fair condition, weight and milk loss continued. Supplemental feeding necessary. Water supplies low. Pastures supplying below average feed requirements. Hay cutting at a standstill.

**CALIFORNIA:** Upper level ridge of high pressure maintained 100 plus maxima throughout the Central Valley and valleys of the Central Coast, as well as the Desert region. A sharp upper level through after mid-week brought substantial cooling, with high temperatures dropping 15 to 20° in the San Joaquin Valley within 24 hours. South coast average temperatures continued well above normal.

Crops continue to grow well. Wheat, barley nearly harvested. Rice 40% headed, 70% last year; treated for insects. Cotton boll set 75%, 79% year ago. Dry beans growing well; early fields being harvested. Sugarbeets developing well in Valley. Corn, milo, various stages growth. Safflower harvest starting. Alfalfa harvest continues. Avocado movement unchanged. Dates progressing. Table and Thompson seedless harvest increasing. Cling peaches mostly done. Plum harvest light due to heat. Sacramento Valley prunes coming off; good quality, yield. Softness plaguing citrus, but quality fairly good. Many Valencia oranges, grapefruit diverted to by-products. Almond hulls splitting. Walnuts sizing well. Broccoli increased slightly. Cantaloup harvest decreased westside San Joaquin Valley. Carrot volume moderate Salinas Valley. Cauliflower volume moderate. Celery harvest steady Salinas-Watsonville, Santa Maria-Oceano. Lettuce shipments lighter Salinas-Watsonville, Santa Maria. Bell pepper harvest increased, Central Coast. Potato digging stopped temporarily Riverside; continued Stockton. Light shipments of storage potatoes Tulelake. Sweetpotato harvest started. Market tomato volume light. Harvest increasing Oxnard, Salinas Valley. Processing tomato harvest increasing Sacramento Valley. Ranges and pastures dry but in good condition. Livestock also in good condition.

**COLORADO:** Temperatures ranged from above normal early in week across State to below normal in eastern area by mid-week. Showers reported over entire State by weekend.

Winter wheat harvest 98%, 95% 1979, 98% average. Barley harvest underway in San Luis Valley. Barley ripe 73%, 72% 1979. Barley harvested 55%, 52% 1979, 50% average. Spring wheat harvested 29%, 37% 1979. Sorghum headed 70%, 60% 1979. Corn average height 73 in., 74 in. 1979. Corn silked 89%, 94% 1979. Corn dough 40%, 35% 1979. Dry beans flowered 90%, 79% 1979. Alfalfa hay 2d cutting 73%, 81% 1979, 80% average. Alfalfa 3d cutting 10%, 19% 1979 and average. Fieldwork: 6.0 days suitable. Range and pasture in fair condition. Livestock in good condition.

**FLORIDA:** Typical summertime weather prevailed with partly cloudy skies and scattered showers, thunderstorms. Rainfall quite variable, ranging from less than 0.25 in. to over 3.00 in. Most places had between 1.00 to 2.00 in. High temperatures

mostly in the 90's except for a few 80's near the rain areas. Lows were mostly in the 70's.

Soil moisture variable, ranging from short to adequate. Recent showers have been beneficial to crops. Some dry areas. More rain is needed. Corn harvest active. Tobacco harvest virtually complete. Auction sales active. Soybeans under stress from dry conditions. Peanuts pegging, forming pods. Haying active. Sugarcane making very good growth. Pasture condition improved from scattered showers. Many areas need additional rain. Panhandle pastures mostly poor to fair; good to excellent other areas. Cattle good condition. Citrus grove condition very good to excellent. Rain spotty and localized. Some irrigation continues in drier locations. Spraying and fertilizing active. Land preparation for vegetables very active. Laying plastic continues at active pace. Soil moisture generally adequate for planting. Transplanting or seeding underway for celery, tomatoes, peppers and eggplant. Seeding sweet corn continues in the Everglades. Seeding expected to get underway for most other crops by September 1.

GEORGIA: Temperatures 1 to 7° above normal. Rainfall extremely variable, from none to near 4.00 in.

Soil moisture very short to short. Five days suitable for fieldwork. All crops under moisture stress. Armyworm infestation continues increase. Corn poor to fair. Continued salvage harvest for silage. Surviving fields 99% dough, 96% dent, 83% mature, 35% harvested, last year 33%. Soybeans poor to fair, 76% blooming, 35% setting pods. Peanuts poor to mostly fair, 100% blooming and pegging same as last year and average. Cotton remains poor to fair, 100% setting bolls, 26% open, last year 9%, average 8%. Tobacco poor to mostly fair, 76% harvested this year, 92% last year. Watermelons poor to mostly fair, 96% harvested, 98% harvested last year. Apples mostly fair to good, 36% picked, 46% last year. Peaches mostly fair to good, 99% picked this year and last. Pecans mostly fair to good. Pastures and hay crops mostly poor to fair. Armyworm damage increasing. Cattle and hogs fair to good.

HAWAII: Warm, humid weather continued. Rains light and scattered some areas. Irrigation frequent in most crop areas. Some leafy crops affected by insects. Yield reductions anticipated.

Vegetable supplies adequate. Semi-head lettuce and snap bean supplies will continue light. Banana harvest rate higher but still considered light. Papaya supplies light. Occasional rains beneficial. Pineapple harvesting gradually decreasing. Peak season about over. Sugar, steady harvesting anticipated. Pastures generally fair to good.

IDAHO: Scattered showers in north, and thunder-showers in south central and east. Temperatures slightly above normal.

Winter wheat harvested 42%, 56% 1979, 44% average. Spring wheat harvested 31%, 22% 1979, 22% average. Spring barley harvested 30%, 22% 1979, 28% average. Potatoes turning color 36%, 14% 1979, 29% average. Alfalfa second cutting 73%. Fieldwork: 7.0 days suitable. Water supplies adequate. Ranges dry, fire danger high.

ILLINOIS: Temperatures 2 to 5° above normal south, 2 to 3° below normal north. Precipitation 1.00 to 4.50 in., heaviest north.

Soil moisture 5% surplus, 39% adequate, 56% short. Corn condition 9% excellent, 22% good, 45% fair, 24% poor; 83% dough, 70% last year, average 79%; 51% dented, 21% last year, average 40%. Soybean condition 9% excellent, 36% good, 48% fair, 7% poor; 90% setting pods, 80% 1979, 85%

average. Winter wheat acreage 50% plowed, 41% 1979, 48% average. Alfalfa 8% excellent, 32% good, 49% fair, 11% poor; third crop cut 42%, 37% 1979, 37% average. Pastures 7% excellent, 16% good, 42% fair, 33% poor, 2% failure. Fieldwork: 5.0 days suitable.

INDIANA: Temperatures ranged from 50 to 99°. Rainfall heaviest in northeast with 3.10 in., central third 2.20 in., south third 1.90 in., northwest 2.40 in. Humidities above normal. Fourth week rainfall 1.60 in. above normal southwest and northwest to 4.70 in. in northeast.

Fieldwork averaged four days. Topsoil and subsoil moisture mostly adequate. Corn 75% in dough, 1979 70%, average 70%. Corn 15% dented, 1979 10%, average 25%. Corn condition fair to mostly good. Soybeans 75% setting pods, 1979 65%, average 70%. Soybean condition fair to mostly good. Winter wheat land 15% plowed, 1979 15%, average 25%. Peaches 65% picked, 1979 55%, average 55%. Apples 30% picked, average 25%.

IOWA: Wet week with temperatures near normal south to 5° subnormal northwest. Precipitation averaged from 2 to over 4 times the normal to restore waning soil moisture and recharge streams and ponds. Some localized flooding.

Fieldwork: 3.8 days favorable. Topsoil moisture: 19% short, 65% adequate, 16% surplus. Subsoil moisture: 39% short, 54% adequate, 7% surplus. Corn in or past milk stage: 92%, 1979 85%, normal 89%. Corn in or past dough stage: 63%, 1979 39%, normal 61%. Corn in dent stage: 23%, none 1979, normal 22%. Pods setting: 93%, 1979 92%, normal 93%. Soybean leaves turning: 4%, none 1979, normal 6%. Second crop clover hay harvested: 85%, 1979 83%, normal 77%. Third crop alfalfa hay harvested: 31%, 1979 30%, normal 30%. Crop conditions improved. Pasture condition fair to good. Grain movement increased. Market movement normal.

KANSAS: Average temperatures near normal, except 1 to 4° above normal in east. Rainfall averaged 1.00 in. to 3.00 in. with local amounts exceeding 5.00 in. northwest and southeast.

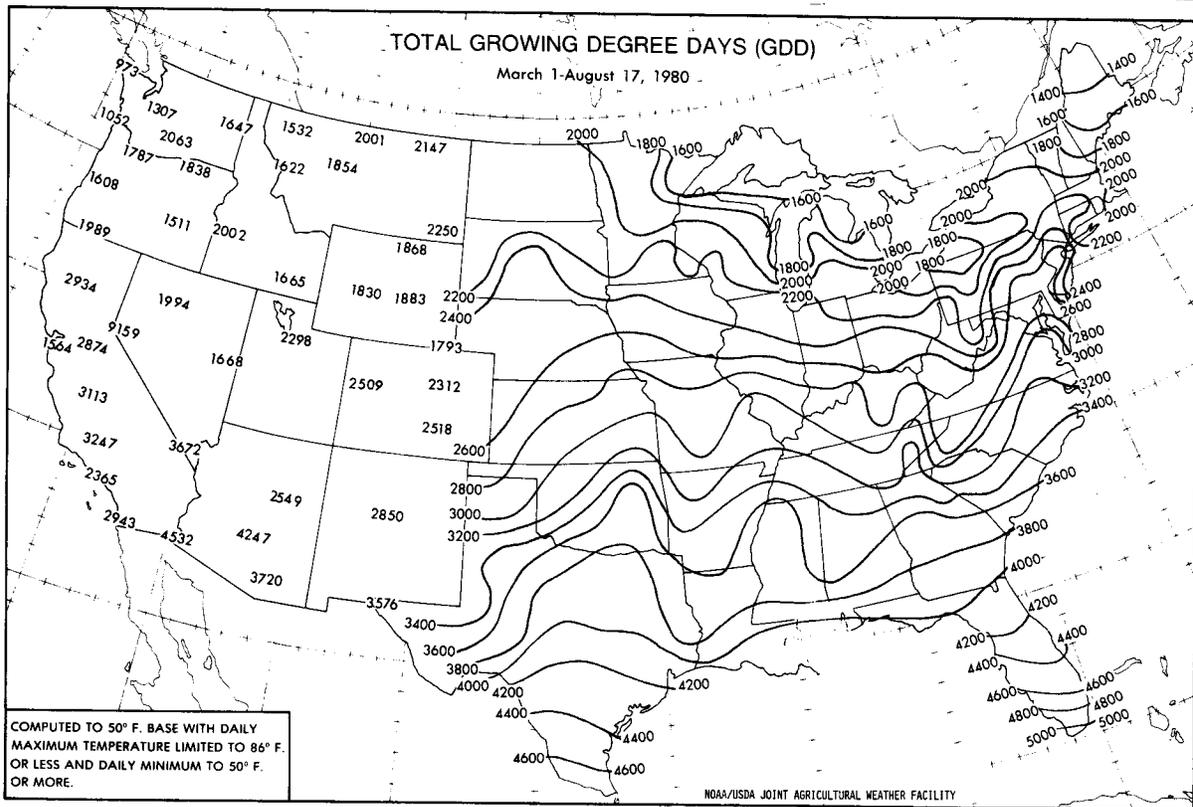
Corn dough 60%, last year 60%, average 70%. Corn dent 20%, last year 20%, average 30%. Soybeans podding 55%, last year and average 60%. Sorghums headed 50%, last year 60%, average 55%. Fieldwork: 5.5 days suitable. Droughty corn and some grain sorghum cut for silage. Rains beneficial to wheat bed preparation. Soil moisture supplies mostly short.

KENTUCKY: Temperatures averaged from around normal in the northeast to around 7° above normal in the far west. Precipitation quite variable in almost daily thunderstorms, averaging around 0.50 in. in the southeast to around 1.70 in. in the west.

Storms provided only minor relief for stressed crops. Soil moisture 28% very short, 33% short, 39% adequate. Corn prospects mostly poor in western areas, fair to good elsewhere. Corn 80% dough, 35% dent or later. Soybeans fair to good condition. Blooms dropping and pods not filling properly in dry western areas. Soybeans 84% blooming compared to 68% last year, 72% average. Pod set 50%; behind last year and average due to hot, dry conditions. Burley tobacco 46% topped; dark types 57% topped. limited harvesting, will soon become active. Pasture condition 33% poor, 40% fair, 25% good, 2% excellent. Third cutting alfalfa 60% complete.

LOUISIANA: Showers south. Temperatures 2 to 4° above normal. Extremes: 70 and 101°.

Soil moisture short. Fieldwork: 5.8 days suitable. Main activities: Harvesting rice, hay, and



insect and weed control. Corn poor to fair. Dough 100%, 100% 1979. Mature 83%, 89% 1979. Harvested 31%, 23% 1979, 24% average. Cotton fair. Setting bolls 100%, 100% 1979 and average. Open bolls 5%, 1% 1979, 4% average. Rice fair to good. Headed 85%, 86% 1979. Ripe 49%, 49% 1979. Harvested 40%, 36% 1979, 43% average. Sorghum fair. Headed 91%, 97% 1979. Turning color 69%, 66% 1979. Ripe 32%, 22% 1979. Harvested 8%, 0% 1979. Sweetpotatoes fair. Harvested 20%, 8% 1979. Vegetables poor. Watermelon harvested. Pastures poor to fair. Livestock fair to good.

**MARYLAND & DELAWARE:** Temperatures 5° above normal. Highs upper 80's to low 90's. Lows upper 60's to mid 70's. Precipitation light.

Corn 95% tasseled, 90% silked, 60% dough, 40% dented. Last year 90% silked, 50% dough, 30% dented. Soybeans 70% bloomed, 30% podded. Last year 70% and 20%. Tobacco 10% harvested. Irish potatoes and snapbean 80% harvested. Alfalfa, third cutting, 80%, last year 60%. Clover, second cutting, 80%, third cutting, 70%. Soil moisture short to adequate. Fieldwork: 6.0 days suitable.

**MICHIGAN:** Below normal temperatures. Average deviation 2 to 3° below normal. Central Lower Peninsula precipitation ranged from 0.10 in. to 0.50 in.

Frequent rain continues to push crop growth. Dampness causing disease problems in vegetables and dry beans. Corn in dough stage reached 35%, 28 last year, 56 normal. Soybean pod set 60%, 52 last year, 66 normal. Hay, oat harvest delayed. Wheat harvest complete. Snap bean and pickle harvest tapering off. Large supplies of most other fruits and vegetables being harvested.

**MINNESOTA:** Temperatures averaged near normal in extreme north, up to 9° below normal in the south-

west, and 3 to 5° below normal elsewhere. Extremes: 85 and 42°. Precipitation averaged up to 0.50 in. above normal in extreme north, 0.50 to 1.00 in. above normal elsewhere in north, near normal to 0.50 in. above normal in central except locally in east central up to 0.36 in. below normal and greater than 1.00 in. above normal in south.

Most of State received rains last 2 weeks. Crop prospects improved. Field corn and soybeans enough moisture to mature. Wet fields limited small grain harvest. Sprouting a problem in some fields. Plowing in central and east central. Field corn: in milk 95%, 1979 54%, normal 82%; in dough 43%, 1979 8%, normal 42%; denting 7%, 1979 0%, normal 13%. Soybeans: Setting pods 94%, 1979 64%, normal 83%; turning yellow 2%, 1979 0%, normal 5%. Cut or swathed: Winter wheat 99%, 1979 93%, normal 98%; rye 99%, 1979 89%, normal 97%; spring wheat 83%, 1979 30%, normal 74%; oats 96%, 1979 67%, normal 89%; barley 97%, 1979 61%, normal 90%.

**MISSISSIPPI:** Temperatures above normal. Scattered showers.

Soil moisture short to very short, some southern counties adequate. Fieldwork: 6.1 days suitable. Hot, dry weather continuing problem. Hay 71% harvested, 70% 1979, 66% average. Sorghum silage 38% harvested, 30% 1979. Peanuts 5% harvested, 7% 1979. Peaches 91% harvested, 96% 1979, 95% average. Watermelons 92% harvested, 94% 1979, 88% average. Corn silage 60% harvested, 55% 1979. Sweetpotatoes 4% harvested, 6% 1979, 11% average. Soybeans 87% blooming, 94% 1979, 87% average; 57% podding, 56% 1979, 53% average; condition mostly fair. Corn 95% dented, 90% 1979; mature 37%, 40% 1979, condition poor to fair. Cotton 99% setting bolls, 98% 1979, 95% average; few fields with open bolls; condition fair to good. Rice 75% headed, 68% 1979, 59% average; 30% turning, 10% 1979; condition fair to good. Sorghum 81% headed, 78% 1979; ripe 9%,

13% 1979. Pecan condition fair to poor. Pasture condition fair.

MISSOURI: Drought continues, especially in southwest. Temperatures averaged 5 to 6° above normal. Precipitation averaged less than 1.00 in.

Fieldwork: 5.4 days suitable. Corn 81% in dough stage, 66% last year, 66% normally. Corn 47% dented, 25% last year, 45% normally. Grain sorghum 79% headed, 74% last year, 77% normally. Grain sorghum 11% mature, 8% normally. Soybeans 66% blooming, 76% last year, 81% normally. Soybeans 59% setting pods, 50% last year, 55% normally. Alfalfa hay third cutting 66% harvested, 53% last year, 54% normally. Condition of corn, soybeans, grain sorghum and cotton poor to fair. Condition of pasture poor. Topsoil moisture supply short.

MONTANA: Heavy precipitation fell over parts of northeast and southeast late in week. Moderate to heavy rains fell over all but the western division, where generally light amounts were recorded. Temperatures averaged 2° above normal in west to 5° below normal in southeast, and 6° below in northeast. Highest temperature 90°, lowest 35°.

Topsoil moisture supplies improved greatly, especially east, with heavy rains. Subsoil moisture short east, adequate far west and short to adequate elsewhere. Five days suitable for fieldwork. Crop progress: Harvested-winter wheat 60%, 1979 80%, normal 60%; spring wheat 30%, 1979 10%, normal 25%; barley 30%, 1979 20%, normal 25%; oats 35%, 1979 25%, normal 35%. Ripe but not harvested: Winter wheat 35%, 1979 20%, normal 35%; spring wheat 35%, 1979 30%, normal 30%; barley 40%, 1979 30%, normal 30%; oats 35%, 1979 30%, normal 35%. Turning color: Winter wheat 5%, 1979 0%, normal 5%; spring wheat 30%, 1979 50%, normal 35%; barley 30%, 1979 40%, normal 35%; oats 30%, 1979 35%, normal 25%. Second cutting alfalfa 50%, 1979 65%, normal 50%; wild hay 95%, 1979 85%, normal 75%. Late summer grazing prospects good far west, poor east, fair to good elsewhere. Most winter wheat expected to be seeded September 1 to the 15th, depending on moisture supplies.

NEBRASKA: Best rainfall amounts during growing season occurred ranging over 0.50 in. Panhandle and 1.00 to 2.00 in. other areas. Temperatures 1 to 3° below normal.

Dryland corn mostly poor to fair. Irrigated mostly good to fair. Dough stage 75%, 50% last year, 65% normal. Denting 30%, none last year, 20% normal. Cutting for silage begun of drought-damaged corn. Soybean crop mostly good to fair. Podding 90%, 85% last year, 90% normal. Sorghum mostly fair to good. Heading 95%, 85% last year, 90% normal. Topsoil and subsoil moisture improved and both mostly short to adequate. Pasture and range feed supplies mostly short to adequate.

NEVADA: Skies generally clear. Daytime temperatures 90° north to near 115° south. Overnight lows were near 50° north to near 80° south. Extremes: 34 and 113°. Isolated thunderstorms south and northeast. Maximum precipitation 0.05 in.

Harvest of small grain and hay continues. Potatoes progressing favorably.

NEW ENGLAND: Temperatures averaged 5 to 10° below normal early and late week. The rest of period temperatures averaged near normal. Frequent rainy periods. Total precipitation 1.00 to 1.50 in. North to 0.25 to 0.50 in. South.

Fieldwork: 3 to 6 days suitable. Hay harvest hindered by rain. Some second crop harvested as haylage. Corn crop very good, ears beginning to

fill out. Potato crop in Maine continues good. Potato harvest beginning in South. Tomato crop reported fair. Tomatoes ripening slowly with some disease reported. Early apples, peaches and nectarines coming to market. Cranberry crop sizing and coloring slowly. Soil moisture adequate North to mostly short South. Grazing conditions adequate.

NEW JERSEY: Temperatures averaged near and slightly below normal. Extremes: 45 and 94°. Rainfall averaged 0.40 in. north, 0.70 in. central and 0.99 in. south. Estimated soil moisture, in percent of field capacity, averaged: 61 north, 66 central and 65 south.

Fieldwork: 6.2 days suitable. Soil moisture very short many areas. Cooler temperatures beneficial. Harvest of summer vegetables declining. Potato digging continues active. Blueberry harvest nearing completion. Some "pick your own", continues. Peach harvest peaking. Summer apple movement continues. Cranberry crop prospects good. Field corn and soybeans need rain many areas. Hay and pastures also hurt by dry weather especially in northern areas.

NEW MEXICO: Heavy rains developed with all areas receiving some shower activity. Temperatures slightly below normal most areas.

Irrigated crops in good condition. Dryland crops continue poor to fair. Cotton good, 98% of bolls set. Third cutting of alfalfa underway in north, fourth cutting well advanced in south and fifth cutting just beginning. Ranges poor to fair. Rainfall very beneficial. Livestock fair to good with some supplemental feeding continuing.

NEW YORK: Temperatures near normal, rainfall variable with more in northern areas.

Wheat harvest 90% done, 95% 1979, 93% average. Oat combining 45% complete, 53% 1979, 53% average. Second cutting alfalfa 70% in, 72% 1979, 76% average. Third cutting 15% complete, 15% 1979, 13% average. Early onions, potatoes, cabbage being harvested. Widespread rain on Long Island broke dry spell. Grape condition good, vineyard spraying to avoid mildew widespread.

NORTH CAROLINA: 5° above normal. Precipitation 0 to 3.00 in. scattered.

Fieldwork: 6.1 days suitable. Soil moisture: 35% very short, 44% short, 19% adequate, 2% surplus. Condition: Mostly declining; pastures poor to fair; field tobacco, corn, hay, soybeans, Irish potatoes, sweet potatoes fair; peanuts mostly fair to good; cotton, apples, peaches fair to good. Harvested: Sweet potatoes 3%; flue-cured tobacco 49%, 1979 60%, average 55%; corn for grain 2%; corn for silage 20%; apples 10%, 1979 12%, average 11%; peaches 82%; hay 74%, 1979 77%, average 76%. Phenological stages: Cotton set bolls 93%; corn soft dough 90%; corn dent 76%, 1979 74%; corn mature 54%; 1979 48%; soybeans bloomed 72%, 1979 69%; soybeans pod set 37%, 1979 32%.

NORTH DAKOTA: Second week in a row with widespread rain. A slow soaking rain helped replenish topsoil moisture in the western part of the State. Rainfall averaged about 1.00 in. In spite of the recent rainfall, seasonal totals still lag behind normal in many areas. Past week was also cool with temperature averages 4 to 6° below normal. Extremes 41 and 84°.

Small grain harvest hampered by rain, cool temperatures and cloudy weather, but moisture beneficial to row crops. Two consecutive weeks of wet weather caused sprouting of swathed grain in central and northern counties. Swathing and combining

percentages followed by previous year and normal are: Hard red spring wheat 63, 25, 53; durum 39, 9, 34; barley 67, 52, 71; oats 73, 43, 67; flax 13, 1, 7. Row crop conditions mostly fair to good. Sixty-two percent of the sunflower is in bloom, 14% with ray pedals dried or dropped and 3% with bracts or heads turned yellow. Corn 21% denting or beyond, 10% normal. Pastures showing some improvement but still poor. Topsoil adequate, subsoil short.

**OHIO:** Hot and humid early week, but cooler weather prevailed by weekend. Mean highs for the week were 2 to 6° below normal. Range in temperatures was 50 to 93°. Precipitation over 2.00 in. several stations. Rainfall distributed throughout week, leaving fields wet and humidity high much of the time.

Corn and soybean crops, except where flooded, have reached normal progress despite late planting. Oat and hay harvest in the northeast and east central behind because of wet fields. Livestock not receiving full benefit from pasture due to its high water content. Mechanical tomato harvesters have not been able to enter wet fields. Corn in dough or beyond 70%, 50% 1979, 80% average. Corn in dent 15%, 10% 1979, 20% average. Soybeans pods setting or beyond 85%, 80% 1979, 85% average. Soybeans with pods set, leaves green 40%, 40% 1979, 40% average. Days favorable 2.5. Pasture condition good. Soil moisture adequate to surplus.

**OKLAHOMA:** Temperatures averaged near normal in the Panhandle, 3 to 4° above normal over the western half and 5 to 7° above normal over the remainder of the State. Precipitation ranged from a trace in the west central to 1.72 in. in the northeast.

Widespread thunderstorms over weekend brought relief many areas. However, more rain needed to check drought. Wheat seedbed prepared 5% 1980, 20% last year and average; sorghum heading 75% 1980, 55% 1979, 80% average; sorghum milk to dough 20% 1980, 20% 1979, 40% average; sorghum mature 5% 1980, 5% 1979, 10% average; cotton squaring 95% 1980, 100% 1979 and average; cotton setting bolls 65% 1980, 60% 1979, 70% average. Days suitable for fieldwork: 6.8.

**OREGON:** Temperatures near normal along Coast, 1 to 6° above normal central and eastern sections. No precipitation except along Coast.

Soil moisture supplies short in scattered western counties and northeast. Winter wheat good, 76% harvested, 92% 1979. Second and third cutting of alfalfa, good quality. Peppermint harvest picking up. Gravenstein apples harvesting. Peaches still being harvested. Blueberry harvest continuing. Snap bean harvest over half completed. Dry pea harvest progressing. Russet potatoes digging in full swing at Hermiston-Broarman. Livestock condition good to excellent. Pasture and range condition fair to good. Forage drying up in non-irrigated areas. Fire danger in ranges continues. Grasshoppers remain limited problem.

**PENNSYLVANIA:** Warm with scattered showers and thundershowers. Temperatures showed a downward trend. Rainfall much heavier in west as amounts ranged from 1.25 in. to around 5.00 in. Extreme temperatures 94 and 42°.

Four days suitable. Soil moisture short to adequate. Activities: Harvesting cabbage, snap beans, tomatoes, sweet corn, cucumbers, squash and potatoes; picking peaches and apples; harvesting small grains; making hay; baling straw; topping tobacco; plowing; general repair. Wheat harvest virtually complete, same as last year. Oats 82% combined; last year 70%. Tobacco harvest 7%; last

year less than 5%. Potatoes harvest 22%; last year 21%. Ensilage corn harvest 10%; last year less than 5%. Corn 53% silked, 35% in dough, 5% in dent; last year 53% silked; 33% in dough, 6% in dent; average 50% silked, 38% in dough, and 5% in dent. Fall plowing 20%; last year 9%. Alfalfa second cutting is 83%; last year 80%. Third cutting alfalfa is 30%; last year 22%. Second cutting Clotim is 73%; last year 50%. Hay quality good to fair. Feed from pasture average to below average.

**PUERTO RICO:** Island average rainfall 1.04 in. or 0.58 in. below normal. Temperatures averaged about 82° on coasts and 77° interior divisions. Extremes 95 and 47°.

**SOUTH CAROLINA:** Abnormally hot weather persisted including 100° over much of the State. Scattered thunderstorms produced some rains, but very spotty. All areas need additional moisture.

Days available for fieldwork: 6.00

Drought conditions continue to stress all crops. Corn condition poor; 15% harvested, 21% year ago, 21% average; 75% mature, 75% last year, 72% average. Some cotton shedding leaves, young fruit due to dry condition. Cotton condition poor; 10% open bolls, 5% last year, average 9%. Soybean condition poor to fair, some soybeans shedding leaves under stress. Also heavy insect pressure; some very short plants blooming, 80%, 90% year ago, 76% average; acreage setting pods 41%, 53% year ago, 44% average. Tobacco condition fair, 67% harvested, 93% last year, 87% average.

Peaches fair condition, fruit size reduced with lack of moisture; 90% harvested, 96% last year. Apples fair to good, 3% harvested, 15% last year, 15% average. Snapbeans 45% planted, 74% year ago. Pastures poor condition.

**SOUTH DAKOTA:** Cool, wet weather. Temperatures averaged 2 to 7° below normal. Extremes: 96 and 35°. Rainfall ranged from 0.50 in. northwest and north central to 2.00 in. eastern third.

Topsoil moisture critically short parts of northwest, north central, and central. Adequate eastern third, short elsewhere. Rains may have been to late to benefit corn many areas. Soybeans, grain sorghum, pastures and ranges should receive boost though. Still concern about winter feed supplies. Hay crop extremely short. Sunflowers bloomed 87%, 76% 1979, 76% average. Soybeans setting pods 88% 72% 1979, 86% average. Corn silked 92%, 99% 1979, 100% average. Corn dough stage 47%, 34% 1979, 40% average. Corn dented 8%, 8% 1979, 12% average. Grain sorghum 74%, 74% 1979, 71% average. Grain sorghum 14%, 10% 1979, 6% average.

**TENNESSEE:** Warm week. Mean temperatures ranged 3 to 8° above normal. Rainfall scattered and light, generally 1.00 in. or less.

Soil moisture mostly short. Fieldwork: 5.6 days suitable. Major activities: haying, harvesting burley. Corn 58% dent stage, 1979 42%, average. 59%. Corn 8% mature, 1979 4%, average 8%. Cotton 100% setting bolls, 1979 100%, average 90%. Cotton 1% open bolls, 1979 1%, average 3%. Soybeans 87% blooming, 1979 88%, average 82%. Soybeans 45% setting pods, 1979 45%, average 39%. Burley tobacco 50% topped. Burley 13% harvested, 1979 20%, average 10%. Lespedeza hay 35% harvested, 1979 35% average 32%. Pastures poor, cattle good.

**TEXAS:** Weather: Remnants of Hurricane Allen moved into northern Mexico, triggering numerous thunderstorms southern part of State. Remainder of week moist unstable air pumped into State by high pressure ridge, triggering scattered afternoon, evening

thunderstorms. Temperatures about 3° below normal, extreme West, near normal elsewhere. Average temperatures low 80's West to middle 80's across State. Rainfall 1.00 to 2.00 in. above normal Southwest, 0.50 in. below normal lower Rio Grande Valley, near normal elsewhere. Average rainfall 0.50 in. or less across southwest to 1.00 in. or more in extreme Southeast.

**Commercial vegetables:** In lower Rio Grande Valley, damage from Hurricane Allen continued to be appraised. High winds, heavy rains interrupted land preparation, planting of fall vegetables. Some peppers, cabbage, onions, tomatoes planted. Replanting will be necessary. Flooded fields delayed continuation of planting activity. Citrus trees suffered some damage eastern area of Valley from high wind. Some loss of fruit occurred throughout area. In Coastal Bend area flooded fields began to dry out and delayed planting of fall cabbage and cucumbers. In San Antonio-Winter Garden area, rain delayed land preparation, planting of fall vegetables. At Eagle Pass, some tomatoes, carrots up to a stand. In South, remaining watermelons lost. In East, harvest watermelons active. Light supplies of peas, tomatoes, cantaloups, peppers available. Irrigated sweetpotatoes good. In North, harvest of cantaloups, watermelons continued. Fall gardens being prepared. In Trans-Pecos, supplies of cantaloups, honeydew melons, watermelons, peppers, onions available. On High Plains, harvest of onions, potatoes tapered off. Cabbage, peppers, cucumbers available in good volume. Peach harvest continued North and High Plains. Pecan droppage continued most areas from moisture stress.

**Range and livestock:** Hurricane Allen brought heavy rains to Rio Grande Valley, South and scattered showers to western half. Moisture brought some relief but drought was not ended and additional rainfall needed for forage growth. Where moisture fell, green-up of ranges and pastures was beginning but limited new growth has not reduced need for supplemental feeding. Livestock remain fair to good condition. Marketing of calves and cull cows continued. Goat shearing active.

**Crops:** Intermittent rains provided some relief from drought. Cloud cover blanketed many areas reducing temperatures. Despite rains most field crops did not benefit significantly. However, rains helped pastures, hay meadows which are showing improvement. Harvest of corn, cotton, sorghum continues, some delays due to rain. Insects building, producers engaged in insect control. Stands of cotton maturing rapidly under hot, dry conditions. Dryland fields suffering despite recent rains. Plains, Blacklands. Cross-Timbers plants dropping squares, bolls from plant tops. Irrigated fields in fair to good condition; benefitting from recent lower temperatures. Harvest 11% complete, moving north, expected to begin shortly in Cross-Timbers, Blacklands. Bolls small, many lost due to droppage. Many modules in Valley remain soaked from Hurricane Allen and may be lost. Boll worms building, egg laying increasing under cooler temperatures, improved moisture situation. Sorghum harvest 66% complete. Yields have varied considerably, latter planted fields having reduced yields due to extreme heat, dryness. Many fields produced small, light heads, others developed so poorly they were grazed out, cut for hay, silage. Irrigated fields sustained drought, prospects remain good. Insect damage light, harvest expected Low Plains moving toward northern Panhandle. Corn harvest moved slowly, now progressed to Blacklands. Plains producers reported damage from corn borers, mites and are busy applying insecticides. Dryland corn severely affected by drought, many fields totally lost East, North central. Ear development poor,

incomplete. Production prospects reflect drought conditions. Rice harvest wrapping up, few fields remaining. Damage from Hurricane Allen minimal. Prospects for second cutting favorable. Peanuts expected to benefit from recent rains. Condition fair, expected to improve in response to increased moisture. Harvest expected Central shortly. Soybeans continue to mature, showers expected to aid pod development, filling. Southern Coast, Rio Grande Valley, Hurricane Allen left many fields flooded, drainage is critical if stands are to survive. Hay cutting at standstill, may pick-up due to recent rains. Pastures, meadows showing signs of greening up, may produce some cuttings.

**UTAH:** Accumulated amounts moisture generally light to moderate but locally heavy extreme north. Cooling trend temperatures following storm out slowly rising over weeked. Average temperatures ranged from 2° below to 5° above normal.

Unirrigated land dry. Irrigation water remains adequate. Cattle and sheep good condition, but range feed dry. Rain badly needed. Grain harvest continues active. Winter wheat 74% harvested, spring wheat 48%, barley 65% and oats 15%. About 80% of corn tasseled, well behind normal. Long frost-free fall needed to assure maturity.

**VIRGINIA:** Hot, humid until cooler air moved in over weekend. Average temperature near 80°, several degrees above normal. Extremes: near 100 and 51°. Rainfall moderate to locally heavy, averaging about 0.75 in., occurring as showers, thunderstorms. Amounts varied from zero to over 6.00 in.

Rain aided soybeans north, central Piedmont but missed some peanut, tobacco areas. Topsoil moisture short to adequate. Fieldwork: 5.7 days available. Corn good north, southwest, poor elsewhere, 95% silked, 65% in dough. Combining started extreme southeast, silage harvests gaining momentum. Tobacco harvested: Flue-cured 25%, 30% 1979, 30% average; fire-cured 10%, 25% 1979, 18% usual; burley 3%, 5% 1979, 7% average; sun-cured 3%, 20% 1979, 12% usual. Soybeans sprayed for corn earworms, spider mites, eastern areas. Peanut pegging prevented by hard, dry soils southeast. Haying active, condition fair. Pastures fair. Calves sold, Tidewater, due to low feed supply. Lamb marketing gained momentum north. Last of watermelons picked southeast. Apple, peach picking continued. Commercial tomatoes picked Eastern Shore.

**WASHINGTON:** **West:** Temperatures averaged 2 to 3° above normal. Precipitation much below normal. Vegetable and berry harvests continued. Sweet corn beginning to ripen, with harvest approaching full swing in September. Transplanting of cabbage seed has begun. Hay vigorously cut, keeping supplies at an adequate level.

**East:** Temperatures averaged 1 to 6° above normal. Precipitation much below normal. Fruit harvests continued under good conditions. Varieties included bartlett pears, peaches, prunes, and nectarines. Apples and pears on schedule, with size and shape reported good. Other irrigated crops harvested were mint, dry beans, potatoes, and alfalfa. Grain harvests progressing nicely. Dry pea and lentil harvest well along. Range and pasture conditions adequate overall: with some localized shortages occurring.

(continued on page 16)

# International Weather and Crop Summary

August 11 - 17

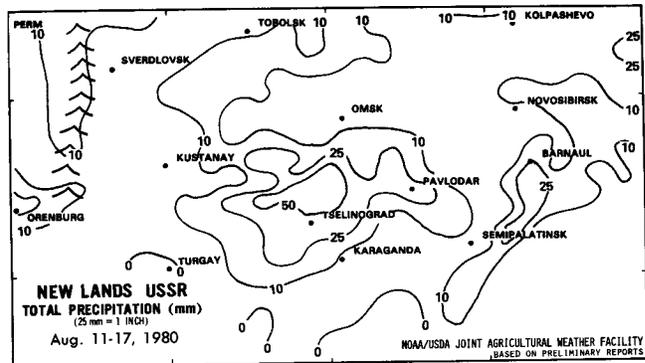
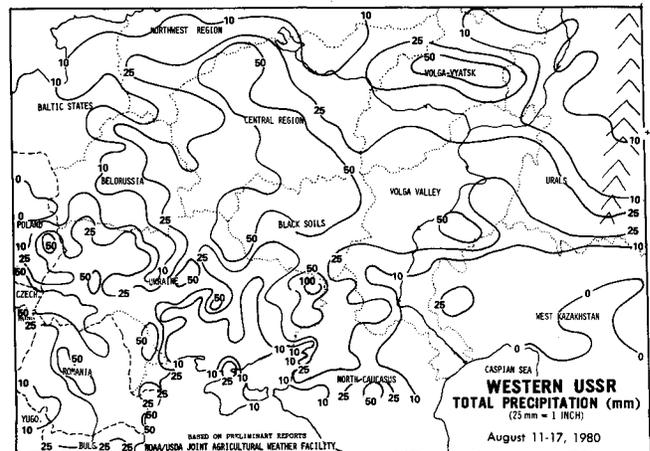
### HIGHLIGHTS:

- USSR:** Harvesting winter grains in the Northwest...conditions too wet. Spring harvest beginning in southern New Lands...some areas too wet.
- EUROPE:** Harvesting winter grains in the North...many areas too wet.
- CHINA:** Spring-sown crops maturing\*...excessive water in the Yangtze Valley.
- INDIA:** Rice heading in the North\*...lighter rainfall; flooding continues. Cotton bolls forming in Punjab\*...favorable conditions.
- THAILAND:** Corn maturing\*...monsoon rain continues.
- AUSTRALIA:** Winter grains semi-dormant\*...dry weather.
- ARGENTINA:** Winter grains semi-dormant\*...soil moisture adequate.
- BRAZIL:** Winter grains semi-dormant\*...soil moisture adequate.
- CANADA:** Cereal crops ripen...wet in the East.
- MEXICO:** Immature citrus in the Northeast...beneficial rains from Hurricane Allen.

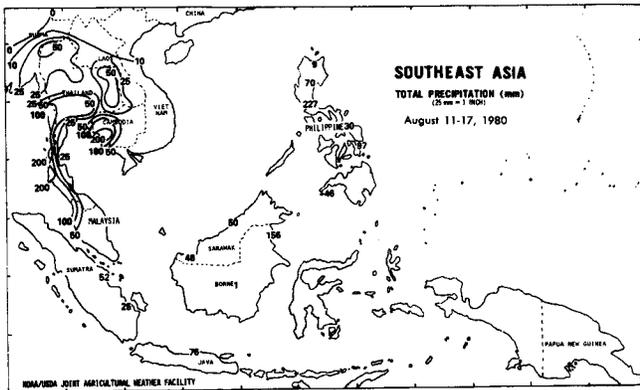
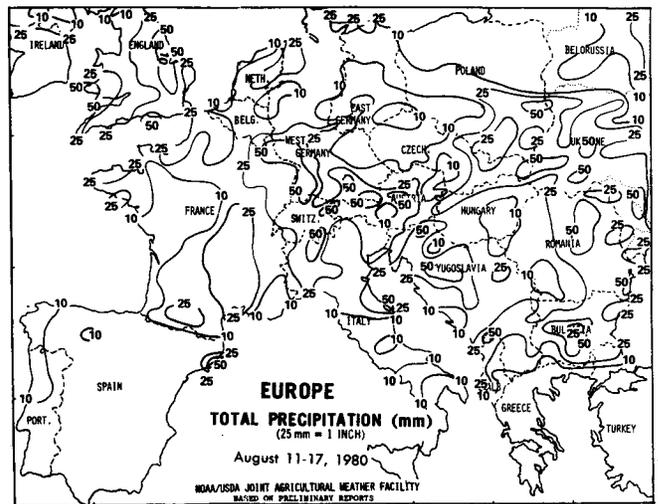
\*Based on normal crop calendar information.

**USSR.** Weather in the southwestern portion of the winter grain belt improved briefly early in the week, but the showers returned. Totals for the week ranged much above normal over most of European USSR, and temperatures remained generally below normal. Row crops in the North Caucasus and eastern Ukraine probably benefited from the moisture, but winter grain harvesting was further delayed in the western Ukraine and over a broad area extending from the north central Ukraine to the north. Concern is mounting about time remaining for fall sowing once the current crop is harvested. Spring grain harvesting in the lower Volga Valley was probably only slightly disrupted by the above-normal 25 to 50 mm of rain there.

In the New Lands, relatively heavy rains in south central portions slowed ripening of spring grains, which should now be nearly mature. Very light frost at some locations did no damage.

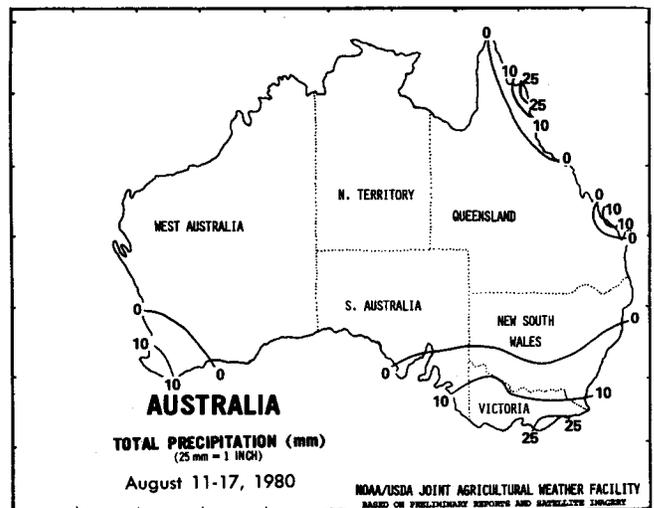


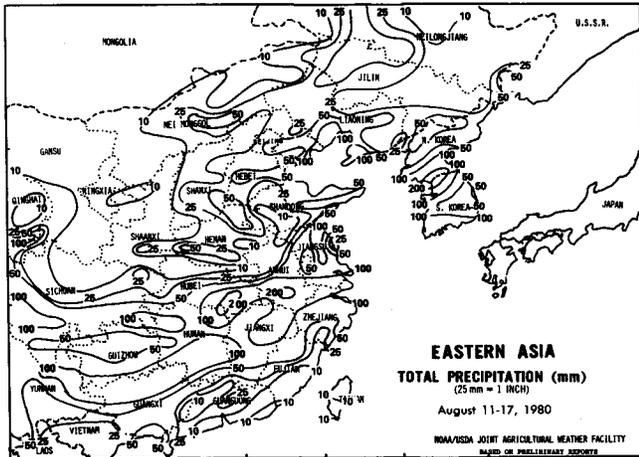
**EUROPE.** Wetter weather returned to much of northern and eastern Europe. Below-normal rainfall in many areas allowed harvesting of grains to continue, but 25 to 50 mm in other areas again slowed fieldwork. The most seriously affected areas were southeastern England, northeastern France, southwestern West Germany, southern Poland, and southeastern Romania. Temperatures stayed slightly above normal in the northwest, but dipped below normal again in the southeastern countries. Crops had benefited greatly from recent drier weather, but if this present dampness persists, grain quality losses may be expected.



**SOUTHEAST ASIA.** The progress of the monsoon season to date continued to favor good crop development in Thailand. Moisture was ample in the Central Plains with this week's rainfall totals ranging from 50 to 100 mm in the agricultural area north of Bangkok. Maize and rice crops have benefited from timely and frequent showers. The maize crop advanced towards maturation, and yield prospects were good. Similarly, prospects were favorable for the rice crop.

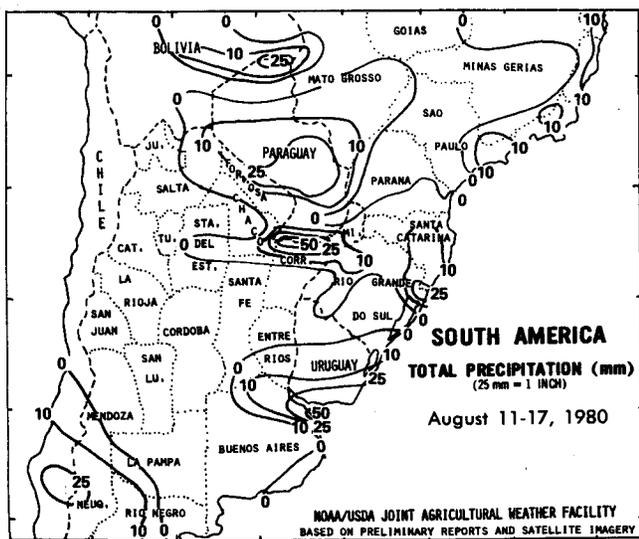
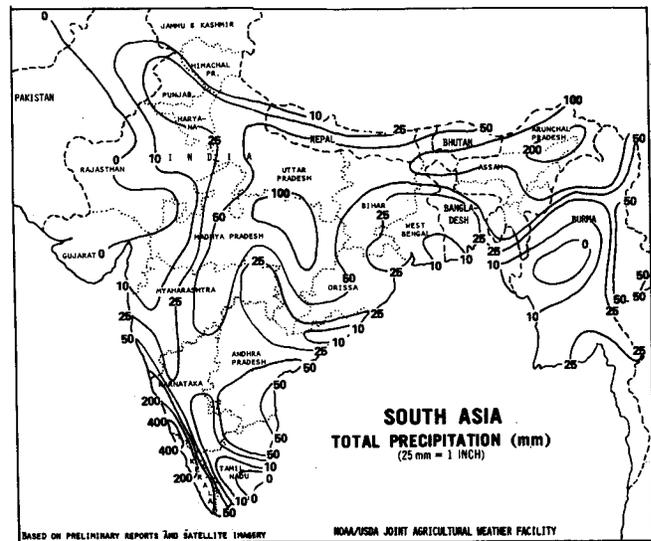
**AUSTRALIA.** The winter wheat area in Victoria received less than 10 mm of rain this week. Elsewhere, dry weather prevailed. Although conditions were generally favorable for initial spring growth, soil moisture supplies remained low in northern New South Wales, Queensland, and parts of West Australia. Rain is needed in these areas during the next several weeks for good crop growth.



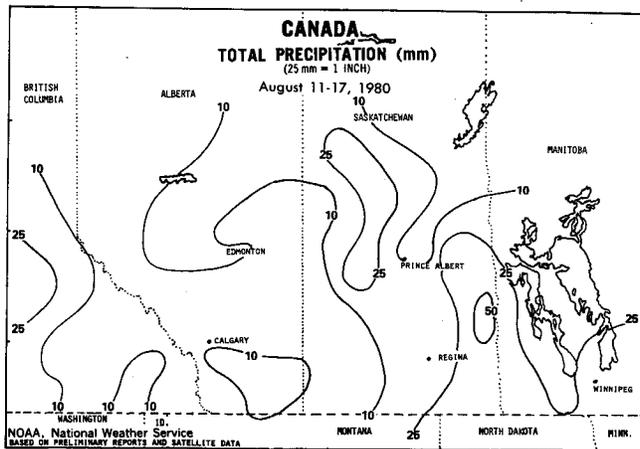


**CHINA.** Excessively heavy rains in the Yangtze Valley have caused extensive flooding of cropland. This rainfall has persisted intermittently for most of the summer, and reservoirs which normally contain the waters are overflowing now. The potential exists for substantial crop damage, since many crops in the area are nearing maturity and need drier conditions. The rains were continuing at week's end. To the north, near-normal rainfall in Hebei Province further improved dry conditions, and a return of wet weather to the Manchurian Valley maintained good growing conditions.

**SOUTHERN ASIA.** Rainfall in the northeastern half of India decreased to near normal, but drier weather is needed to bring rivers back down to normal levels. Upland crops benefited from the rains, however, and no serious crop losses are anticipated at this time. Lighter totals in southern West Bengal and southwestern Bangladesh were probably welcomed, as was some drier weather in Gujarat. A variable pattern in the south generally maintained favorable growing conditions.

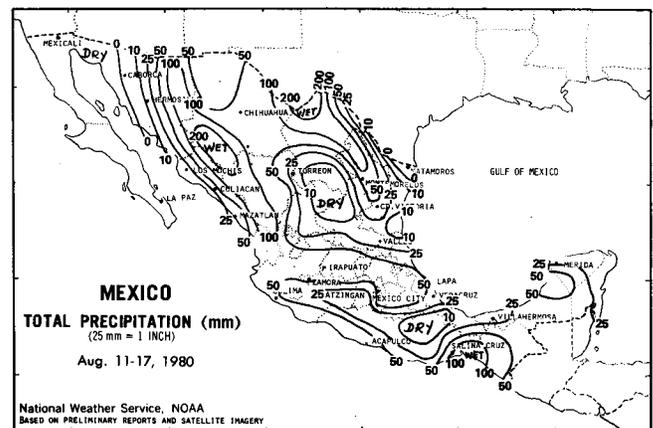


**SOUTH AMERICA.** Soil moisture supplies remained adequate, although dry weather prevailed in most winter wheat areas of Argentina and Brazil. Rainfall was concentrated primarily in the northernmost portion of Buenos Aires Province adjacent to Uruguay and in Paraguay, west of Brazil's wheat producing states of Rio Grande do Sul and Parana. The wheat crop remained in a semidormant state during the winter months.



**CANADA.** The eastern portion of the Canadian Prairies received frequent showers this week. Heaviest weekly totals, ranging from 35 to 60 mm, fell in eastern Saskatchewan. Late-seeded crops, which are in the grain-filling stage, benefited from increased moisture supplies; however, cool weather may have slowed crop development. Moreover, the heavy showers probably delayed harvesting of early-seeded crops. Light rain, generally less than 10 mm, fell in the western portion of the Prairie grain belt where crops have matured.

**MEXICO.** Hurricane Allen moved into the northeast on the 10th and dissipated in the north central mountains a few days later, producing beneficial, widespread heavy rains. The previously droughty northeastern citrus area received 60 to 80 mm, while the north central rangelands had 50 to 100 mm. An estimated 200 mm fall in northwestern Coahuila. Seasonal heavy rains continued over the northwestern mountain watersheds, which should further increase reservoir storage for west coast fall and winter vegetables. The southern plateau's corn crop, in the reproductive stage, should benefit from rains averaging around 50 mm.



(continued from page 13)

**WEST VIRGINIA:** Temperatures averaged 3° above normal. High 98°, low 49°. Precipitation above normal, heavy in north central areas, uneven elsewhere.

Soil moisture adequate to surplus. Days suitable for fieldwork 3.9. Major activities, haying, pasture clipping and gardening. Oats good to fair, 75% harvested compared to 80% in 1979. Corn good to fair, 17% pre-silked, 55% silked, 28% dough stage compared to 21%, 54% and 25% respectively in 1979. Potatoes good to fair, 19% harvested compared to 22% in 1979. Tobacco fair to good, 19% harvested, 35% topped compared to 13% and 62% respectively in 1979. Hay good to fair, 2d cutting 53% complete compared to 43% in 1979. Pastures good to fair. Fruit fair to good. Gardens fair to good. Precipitation still hampers haying and insect control. Some flooding in north central area.

**WISCONSIN:** Cool, wet week. Temperatures 4° below normal. Highs generally in 70's but only 60's 16th. Lows 40's and 50's. Extremes: 84 and 42°. Showers south and east 11th, west 12th, Statewide 13th and 16th. Rainfall totals ranged from 0.50 in. northwest to 2.00 in. southwest.

Rain and wet fields limited harvesting as only 2.0 days suitable for fieldwork. Oats 55% harvested, 1979 40%, normal 60%. Many remaining

fields badly lodged and weedy. Poor drying weather for haying. Excellent growth on third crop. Pastures improved considerably with abundant moisture. Corn crop excellent condition except where storm damaged. Corn 50% in dough stage, 1979 20%, normal 33%. Soybeans doing very well with plenty of moisture for pod fill. Vegetable harvest disrupted by rain and soft fields. Tobacco being topped, large plant growth. Apple crops sizing nicely. Early apples being picked. Cherry harvest near end. Soil moisture adequate to surplus. Streamflow above normal.

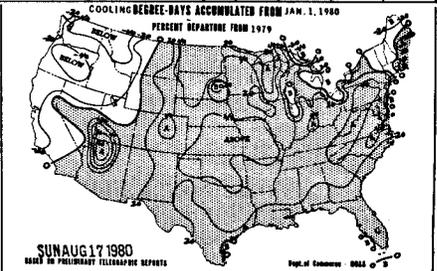
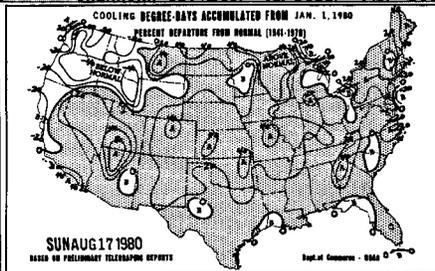
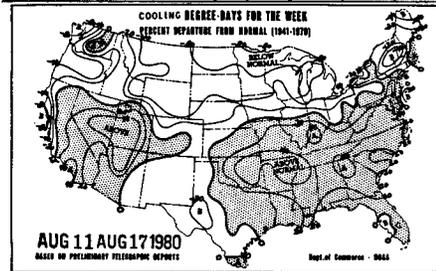
**WYOMING:** Temperatures below normal. Extremes: 97 and 28°. Precipitation above normal.

Topsoil moisture short. Winter wheat 95% harvested; small amount planted for 1981. Spring wheat turning color 90%; mature 74%; harvested 59%. Barley turning color 95%; mature 74%; harvested 53%. Oats turning color 92%; mature 68%; harvested 46%. Corn for grain tasseled 95%; silked 75%; milk 46%; dough 9%; small amount denting. Dry beans mostly in bloom, 82% setting pods, 17% turning color. 2d cutting alfalfa 66% complete, third cutting 6%. Other hay 76% harvested. Current range and pasture condition and prospects for fall grazing, fair. Stock water 43% short, 57% adequate.

COOLING DEGREE DAYS (BASE 65°) FOR WEEK ENDING AUG. 17, 1980.

\* BASED ON 1941-70 NORMALS. ACCUMULATIONS FROM JANUARY 1, 1980.

Table with columns for STATES AND STATIONS, WEEKLY ACCUMULATION, and SEASONAL ACCUMULATION. Rows list various cities across the United States with their respective cooling degree day values.



**CROP PROGRESS**

FOR WEEK ENDING AUG 17, 1980

	CORN % DOUGH		
	1980	1979	AVG.
COLO	40	35	NA
GA	99	NA	NA
ILL	83	70	79
IND	75	70	70
IOWA	63	39	61
KANS	60	60	70
KY	80	75	70
MICH	35	28	56
MINN	43	8	42
MO	81	66	66
NEBR	75	50	65
N C	90	NA	NA
OHIO	70	50	80
PA	35	33	38
S DAK	47	34	40
VA	65	NA	NA
WIS	50	20	33
17 STATES	66	NA	NA
EXCL. STATES WITH NA	64	46	61

THESE 17 STATES PRODUCED 93% OF THE 1979 CORN CROP.

	CORN % DENT		
	1980	1979	AVG.
COLO	0	0	NA
GA	96	NA	NA
ILL	51	21	40
IND	15	10	25
IOWA	23	0	22
KANS	20	20	30
KY	35	30	30
MICH	0	0	9
MINN	7	0	13
MO	47	28	45
NEBR	30	0	20
N C	76	74	NA
OHIO	15	10	20
PA	5	6	5
S DAK	8	8	12
VA	NA	NA	NA
WIS	2	0	4
EXCL. STATES WITH NA	23	8	23

THESE 17 STATES PRODUCED 93% OF THE 1979 CORN CROP.

	SORGHUM % HEADED		
	1980	1979	AVG.
COLO	70	60	NA
KANS	50	60	55
MO	79	74	77
NEBR	95	85	90
OKLA	75	55	80
S DAK	74	74	71
TEX	90	91	NA
7 STATES	75	76	NA

EXCL. STATES WITH NA  
THESE 7 STATES PRODUCED 92% OF THE 1979 SORGHUM CROP.

1/ LESS THAN 5%  
2/ GREATER THAN 95%  
NA - NOT AVAILABLE

	SOYBEAN % BLOOMING		
	1980	1979	AVG.
ALA	86	84	82
ARK	65	NA	NA
GA	76	NA	NA
ILL	98	91	96
IND	100	95	NA
IOWA	100	100	100
KANS	NA	NA	NA
KY	84	68	72
LA	85	87	NA
MICH	94	92	95
MINN	99	97	99
MISS	87	94	87
MO	86	76	81
NEBR	100	NA	NA
N C	72	69	NA
OHIO	NA	NA	NA
S C	80	90	76
TENN	87	88	82
18 STATES	NA	NA	NA
EXCL. STATES WITH NA	93	90	91

THESE 18 STATES PRODUCED 94% OF THE 1979 SOYBEAN CROP.

	SOYBEAN % SETTING PODS		
	1980	1979	AVG.
ALA	60	63	NA
ARK	32	NA	NA
GA	35	NA	NA
ILL	90	80	85
IND	75	65	70
IOWA	93	92	93
KANS	55	60	60
KY	50	63	62
LA	60	67	NA
MICH	60	52	66
MINN	93	64	83
MISS	57	56	53
MO	59	50	55
NEBR	90	85	90
N C	37	32	NA
OHIO	85	80	85
S C	41	53	44
TENN	45	45	39
18 STATES	69	NA	NA
EXCL. STATES WITH NA	76	69	73

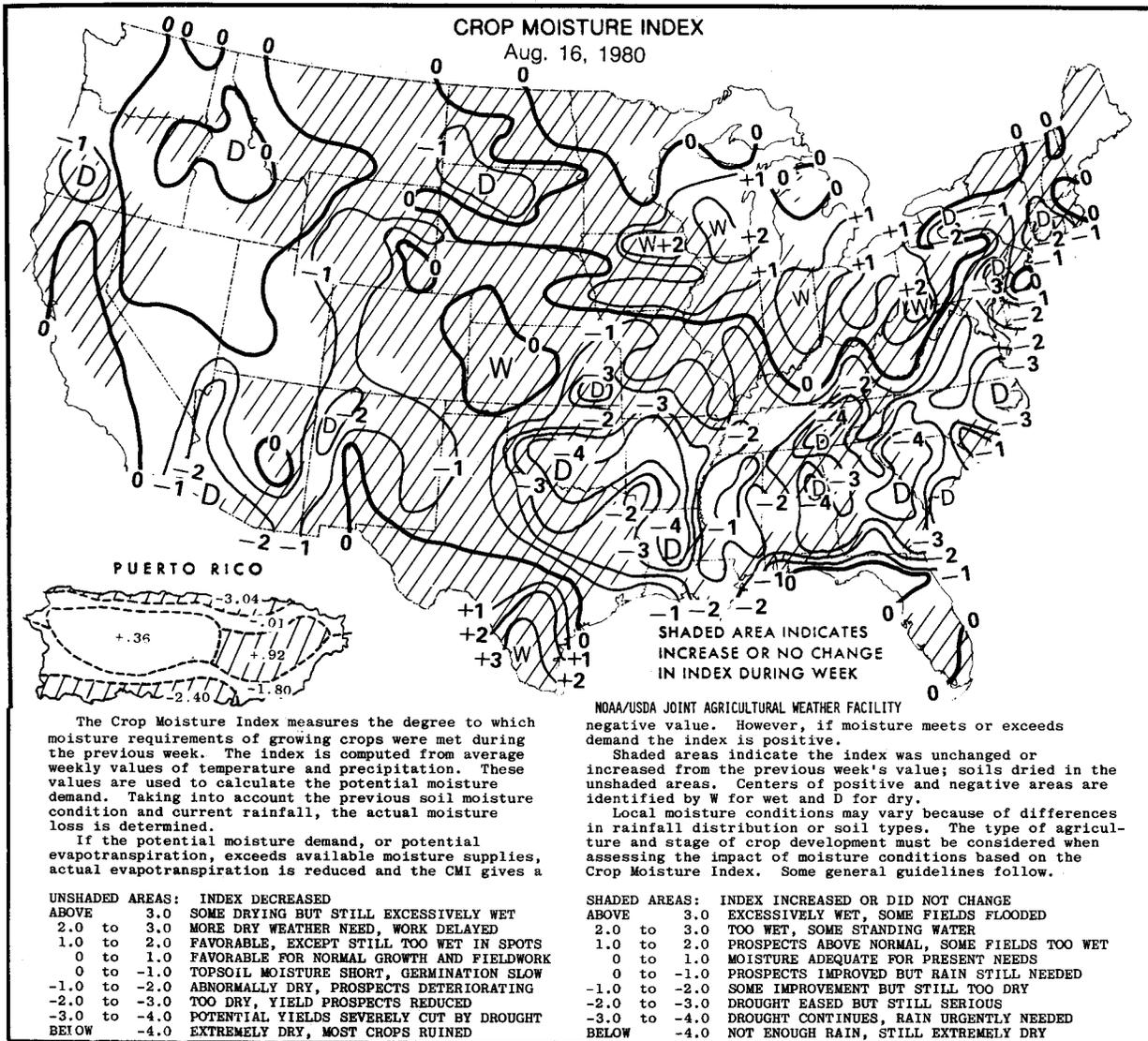
THESE 18 STATES PRODUCED 94% OF THE 1979 SOYBEAN CROP.

	RICE % HEADED		
	1980	1979	AVG.
ARK	53	NA	NA
CALF	40	70	NA
LA	86	86	NA
MISS	75	68	59
TEX	100	100	NA
5 STATES	67	NA	NA
EXCL. STATES WITH NA	75	68	59
THESE 5 STATES PRODUCED 99% OF THE 1979 RICE CROP.			

	COTTON % SETTING ROLLS		
	1980	1979	AVG.
ALA	96	96	93
ARIZ	100	100	100
ARK	98	95	99
CALF	75	79	NA
GA	100	100	99
LA	100	100	100
MISS	99	98	95
MO	99	83	95
N MEX	98	80	95
N C	93	82	NA
OKLA	65	60	70
S C	99	99	99
TENN	100	100	90
TEX	97	88	NA
14 STATES	94	88	NA
EXCL. STATES WITH NA	94	92	93
THESE 14 STATES PRODUCED 99% OF THE 1979 COTTON CROP.			

	WINTER WHEAT % HARVESTED		
	1980	1979	AVG.
CALF	99	100	NA
COLO	98	95	98
IDA	42	56	44
ILL	100	100	100
IND	100	100	100
KANS	100	100	100
MO	100	100	100
MONT	60	80	60
NEBR	100	100	100
OHIO	100	100	100
OKLA	100	100	100
OREG	76	92	NA
S DAK	100	91	99
TEX	100	100	100
WASH	62	87	NA
15 STATES	94	96	NA
EXCL. STATES WITH NA	94	97	96
THESE 15 STATES PRODUCED 90% OF THE 1979 WINTER WHEAT CROP.			

	SPRING WHEAT % HARVESTED		
	1980	1979	AVG.
IDA	31	22	22
MINN	57	9	51
MONT	30	10	25
N D	38	7	28
S DAK	27	52	85
5 STATES	49	15	40
THESE 5 STATES PRODUCED 92% OF THE 1979 SPRING WHEAT CROP.			
	RICE % HARVESTED		
	1980	1979	AVG.
ARK	1	0	0
CALF	0	0	NA
LA	40	36	43
MISS	17	17	17
TEX	99	78	79
5 STATES	26	21	NA
EXCL. STATES WITH NA	32	26	28
THESE 5 STATES PRODUCED 99% OF THE 1979 RICE CROP.			



SHOWERS AND THUNDERSTORMS OVER MUCH OF THE NATION HAVE IMPROVED THE CROP MOISTURE INDEX IN MANY AREAS. ALL OF THE GREAT PLAINS SHOWED INCREASED INDEX VALUES, BUT THE CENTRAL PLAINS BENEFITED MOST FROM THE INCREASED MOISTURE. THE WESTERN PORTION OF THE CORN BELT HAS GONE FROM A DRY TO A SLIGHTLY WET CONDITION. ISOLATED SHOWERS IN THE SOUTH AND SOUTHEAST WERE LITTLE OR NO HELP TO THE DRY SOIL MOISTURE CONDITION.

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