

# WEEKLY WEATHER AND CROP BULLETIN

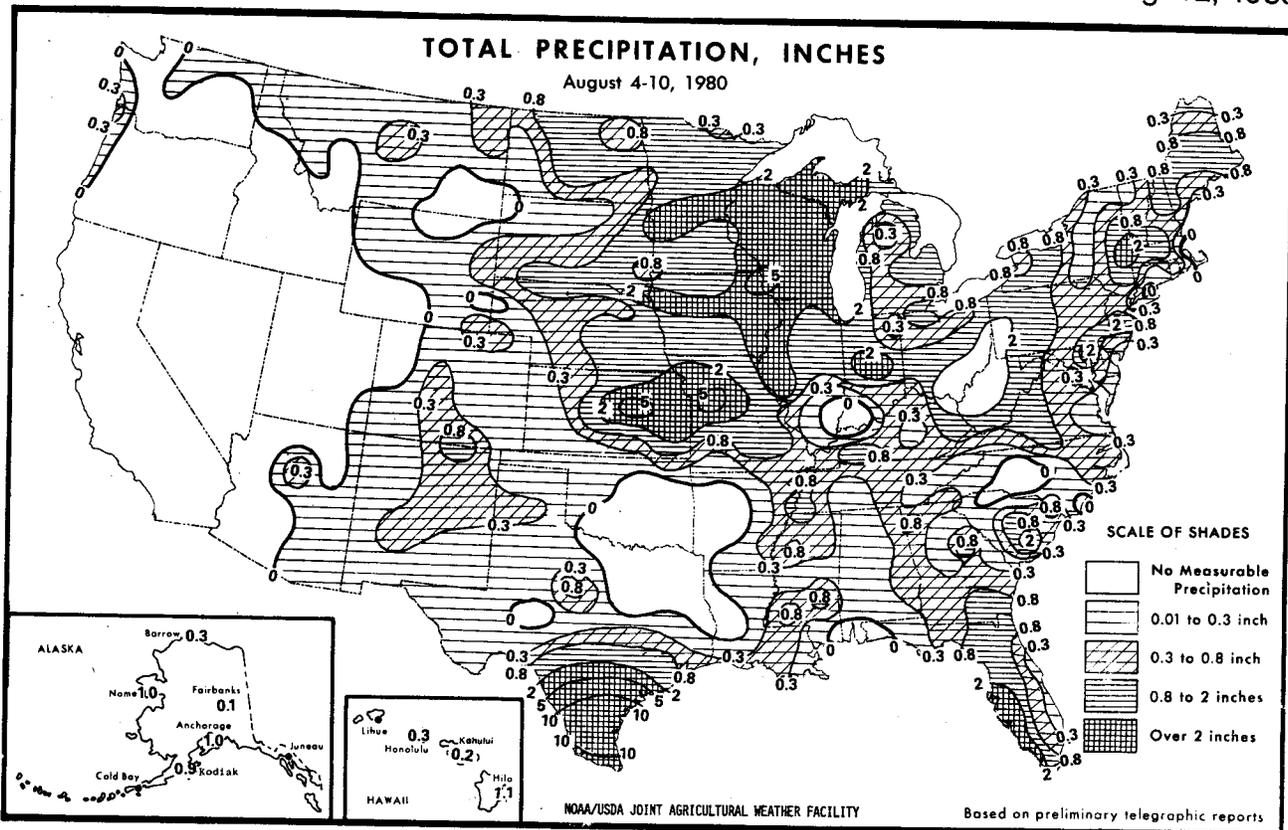
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## National Weather Summary

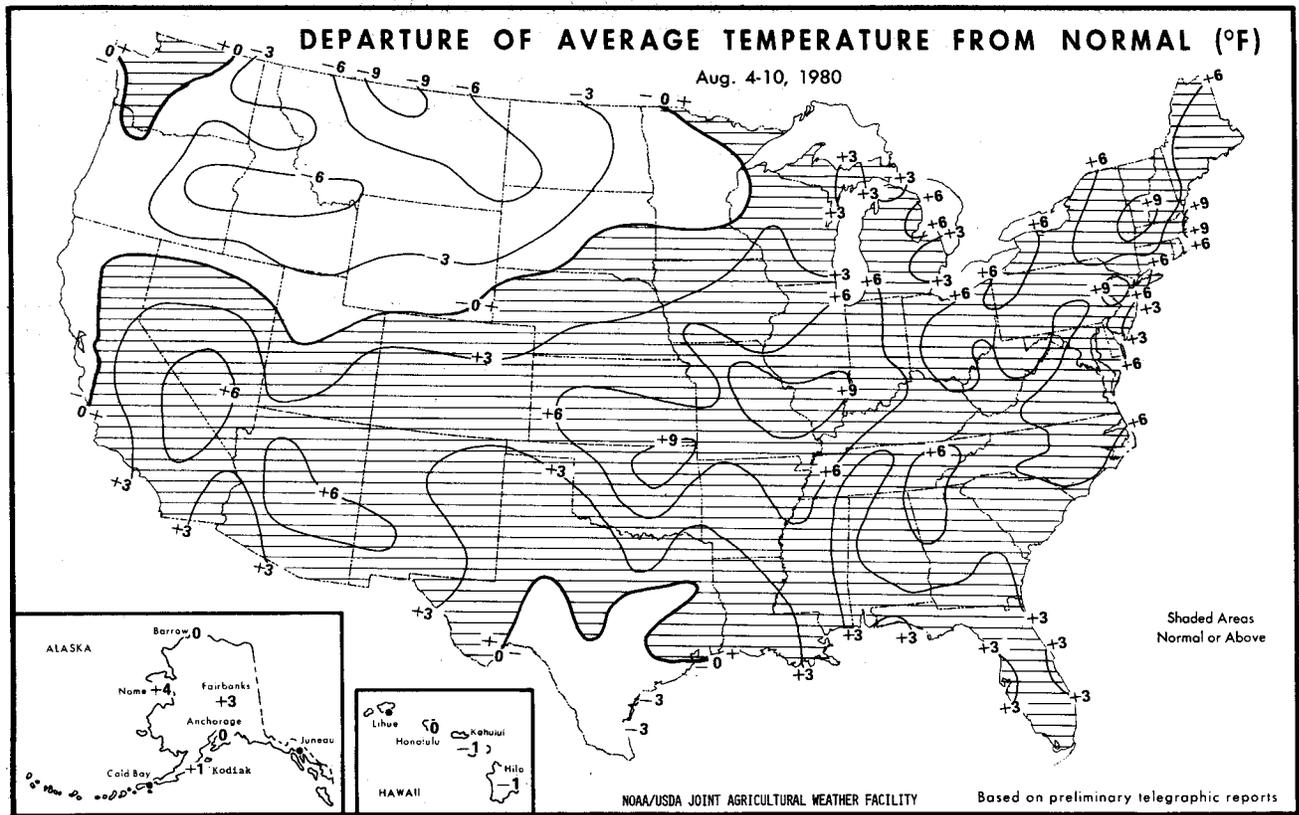
August 4 - 10

**HIGHLIGHTS:** Welcome showers and thunderstorms came to very dry eastern Kansas and northern Missouri over several days. The good moisture additions extended northward through much of the Nation's Corn Belt. However, the southern portions of Illinois and Indiana and southward got only scattered showers. Hurricane Allen slammed into South Texas with greatly diminished wind but spread a shield of rain over the area. The rain was needed, but severe damage resulted from the flooding and tornadoes as well as high winds along the coastal areas. Temperatures averaged well above normal from eastern Oklahoma to Lake Michigan and in the Southeast and mid-Atlantic area.

**MONDAY...**A cold front, moving eastward across the upper and middle Mississippi Valley and the Central Plains, produced showers and thunderstorms on both sides of the front. Heavy thunderstorms

were frequent in eastern Kansas and northern Missouri and less frequent northward to the western Great Lakes. Elsewhere, locally heavy thunderstorms caused flooding in eastern Kentucky and Tennessee. Scattered thunderstorms dotted the Atlantic and Gulf coasts. Hurricane Allen stirred up the Caribbean south of Puerto Rico. A break in the heat finally came to central Texas. The high temperature at Dallas reached only 95° and so ended a run of 42 consecutive days of 100° or higher. However, temperatures were hot over parts of the central Plains, the lower Ohio Valley, and portions of the central Atlantic Coast.

**TUESDAY...**The front moved to the eastern Great Lakes and became nearly stationary through the central Plains to New Mexico. Heavy thunderstorms with large hail and heavy rain pounded northeastern Kansas and northern Missouri. Parts of the Kansas City area were flooded. Showers and thunderstorms



extended into Iowa and central Illinois. Isolated severe weather ranged southwestward into New Mexico. In the East, thunderstorms reached from the Ohio Valley and lower Great Lakes region to the mid-Atlantic Coast and New England. Hurricane Allen, packing winds of 170 mph, rampaged over the Caribbean near Jamaica. Temperatures from the high nineties to past 100° extended from the Southwest, the central and southern Plains, the South, and up to the East Coast to the mid-Atlantic States.

**WEDNESDAY...** Showers shifted northward to the Dakotas, Minnesota, and Wisconsin as a new frontal system moved in. Severe weather accompanied the storms over much of these areas. Elsewhere, thunderstorms were scattered along the Gulf Coast and the Atlantic Coast. Meanwhile, far to the South, Hurricane Allen continued to push across the Caribbean Sea toward western Cuba. Temperatures warmed to record highs in the central and northern Plains and in the Southeast. The temperature at Pierre, central South Dakota, reached 109° while across the cold front to the north Minot, N. Dak. tallied only 71°.

**THURSDAY...** Scattered thunderstorms continued from the upper Mississippi Valley into the western Great Lakes. Tornadoes and other windstorms damaged property throughout much of the area. Widely scattered showers and thunderstorms were scattered across New Mexico and from south central Texas to the southern half of the Atlantic Coast. Meanwhile, Hurricane Allen moved into the Gulf of Mexico near the Yucatan Peninsula. Although still 640 miles southeast of Brownsville, Tex., cotton farmers in that area accelerated picking operations. Many miles away, Mt. St. Helens, Wash., sent another plume of debris high into the atmosphere. High temperatures continued across the South, in the central Plains, and up the East Coast.

**FRIDAY...** Showers and thunderstorms extended from the northern Rockies to New Mexico and from South Dakota through the Lakes, the upper Ohio Valley, and New England. The greatest concentration of the showers centered in northern Iowa. Widely scattered showers and thunderstorms again appeared in the gulf coast States and along the East Coast. Showers and thunderstorms began along the western gulf coast well in advance of Hurricane Allen which was 275 miles east southeast of Brownsville, Tex. The heat wave continued in the central Plains, the lower Ohio Valley, the Southeast, and the mid-Atlantic States.

**SATURDAY...** The thunderstorm pattern remained about the same as Friday but with increased activity in the gulf coast States and little or none in New England. The rain shield from Hurricane Allen moved over the South Texas coast. The storm movement slowed, and by the end of the day, the center closed within 25 miles northeast of Brownsville. Near hurricane-force winds, heavy rain, and tornadoes battered coastal areas near Corpus Christi. Cooler weather enveloped cloud-covered South Texas, but excessively hot weather persisted in the central Plains, the South, and the mid-Atlantic area.

**SUNDAY...** Heavy thunderstorms and showers doused an area from Kansas into Wisconsin, while lighter activity extended eastward through the Corn Belt and into southern New England. Hurricane Allen was downgraded to a tropical storm as it moved into northern Mexico, but it brought heavy rain and severe flooding to South Texas. Damage from the storm resulted mostly from flooding and isolated tornadoes, although wind damage was severe in some coastal areas. Cooler weather reached southward through most of the Midwest, but the southern portion and southward remained hot.

## National Agricultural Summary

August 4 - 10

**HIGHLIGHTS:** Above-normal temperatures continued to dominate most of the Nation. Only the Northwest, parts of the northern Plains, and southern Texas experienced temperatures that were below normal. Temperatures in Oklahoma, Kansas, and Missouri averaged as much as 9 to 10 degrees above normal. Rainfall was limited to the eastern half of the Nation. Farmers in the West had 6 to 7 days suitable for fieldwork, while 4 to almost 7 days were available in other areas. Soil moisture supplies generally rated short in all areas except the east north central and the northern Atlantic States where supplies were mostly adequate to surplus. Spring wheat harvest reached 40% complete, and winter wheat combining advanced to 91% complete. Oats and barley harvests advanced rapidly in many areas. Most of the corn had silked, and 47% reached the dough stage. Many fields entered the dent stage, and harvesting became more widespread in the South. Soybean blooming neared completion, with 54% of the crop setting pods. Cotton rated fair with 89% of the crop setting bolls; bolls began opening in some fields. Grain sorghum heading advanced to 66% complete; earliest fields showed color, while harvest advanced into Louisiana. Texas and Louisiana rice harvests moved well ahead of normal.

**CORN:** Corn rated fair to good throughout most of the Corn Belt but poor to fair in other areas of the Nation. Most of the crop had silked, and 47% reached the dough stage of development. Many fields entered the dent stage, and harvesting became more widespread in the South. Harvesting ranged from 6% in South Carolina to 34% in Texas. Many fields were harvested for silage rather than grain where the 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 the central Plains, Missouri, much of the Delta Region, and the Southeast. Nearly 88% of the crop had bloomed, and 54% was setting pods. Progress generally exceeded last year and the average. Rains in the Southeast improved the condition of the crop.

**SMALL GRAINS:** Spring wheat harvesting reached 40% complete, well ahead of last year's 5% and the average of 26%. Harvesting operations neared completion in South Dakota, but were only 8% complete in Idaho.

Winter wheat combining rolled through most northern States, centering in the Northwest and Montana. Harvesting was finished in all States except California, Colorado, Idaho, Montana, Oregon, and Washington.

Barley and oats combining advanced rapidly in most areas under good weather conditions.

**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 89% of the crop setting bolls, slightly ahead of last year and the average. Progress ranged from 50% in Oklahoma to 100% in Georgia and Tennessee. In Texas, harvesting was interrupted by Hurricane Allen but advanced to

7%. Unharvested cotton in the lower Rio Grande Valley northward to Corpus Christi is virtually all lost due to the hurricane. In northern Texas, cotton continues to show the effects of the drought.

**OTHER CROPS:** Grain sorghum heading advanced to 66% complete, ahead of last year's 60%. Harvesting reached northward into Louisiana. In Texas, harvesting reached 62%, and moved into the Low Plains. Many stands had premature, underdeveloped light heads. Some fields failed to produce grain and were cut for silage or grazed out.

Rice heading reached 55% complete, ahead of last year's progress. Harvesting in Louisiana advanced to 32% and, in Texas, to 93%. The Texas harvest moved at feverish pace in the face of the hurricane; some fields were harvested greener than expected.

Tobacco topping and harvesting continued with little delay. Blue mold continued to present problems in Virginia and Kentucky. Blue mold and black shank caused problems.

Nearly 96% of the potatoes in Idaho were closing middles and 24% were turning color. In eastern Idaho, a heavy frost damaged some fields. Hail damaged some fields in Maine.

**FRUITS:** Fruit harvests became more widespread in northern production areas. Early peaches, apples, and plums were harvested in the Northeast.

Florida citrus groves rated very good. Rain has been spotty, and considerable irrigation is underway.

Nectarine, Cling, and Freestone peach harvests increased in California. The Bartlett pear harvest continued. Valencia oranges suffered from hot weather, resulting in soft pliable fruit. The lemon harvest tapered off, but the grapefruit harvest continued.

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

In Texas, some tree and fruit damage resulted from the hurricane. Moisture received was beneficial to most citrus groves.

**VEGETABLES:** Northern growers harvested increasing supplies of summer vegetables, and in some areas, began planting fall vegetables. Land preparation for fall vegetable crops continued with light planting underway in southern areas.

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

In Texas, vegetable damage from the hurricane was severe in the lower Rio Grande Valley. Heavy rains and high winds ruined most plantings of fall vegetables, replanting will be necessary. Other vegetable growing areas of Texas received beneficial rains from the hurricane that did little but delay planting.

**PASTURES AND LIVESTOCK:** Pastures and ranges deteriorated in much of the western half of the Nation, while rains in the eastern half should improve conditions. Pastures and ranges generally rated poor to fair throughout the Nation. Supplemental feeding and herd reduction continues in drought-stricken areas. Stock water supplies are short in many areas.

Weather Data for the Week Ending Aug. 10, 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		PRECIPI- TATION	
														90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	99	71	102	69	85	5	T	-1.0	T	5.2	49	92	37	7	0	1	0
AL MOBILE	94	75	95	73	84	2	T	-1.6	T	9.4	55	89	49	7	0	0	0
AL MONTGOMERY	96	73	98	71	85	4	.3	-.5	.3	6.1	59	90	44	7	0	1	0
AK ANCHORAGE	63	51	68	45	57	0	1.0	-.5	.7	6.3	162	89	67	0	0	5	1
AK BARROW	44	33	64	29	39	0	.3	0	.2	1.1	65	86	75	0	4	3	0
AK FAIRBANKS	72	49	82	40	60	3	.1	-.4	T	2.5	60	80	46	0	0	4	0
AK KODIAK	64	52	78	50	57	1	.9	-.1	.4	2.5	28	91	72	0	0	4	0
AK NOME	61	47	68	36	54	4	1.0	.2	.5	6.1	136	89	69	0	0	4	0
AZ FLAGSTAFF	86	55	90	54	71	6	.7	-.1	.7	3.7	95	73	28	1	0	1	1
AZ PHOENIX	107	86	111	84	97	7	T	-.3	T	.5	38	44	19	7	0	0	0
AZ TUCSON	101	76	106	73	89	4	.2	-.4	-.1	2.2	65	56	29	7	0	1	0
AZ WINSLOW	96	68	99	64	82	4	0	-.4	0	1.9	95	--	--	7	0	0	0
AZ YUMA	109	82	112	79	96	2	0	-.1	0	0	0	56	0	7	0	0	0
AR FORT SMITH	100	74	102	72	87	4	0	-.6	0	4.6	58	80	31	7	0	0	0
AR LITTLE ROCK	99	76	101	73	87	5	T	-.6	T	1.3	16	82	34	7	0	0	0
CA BAKERSFIELD	100	71	103	66	86	3	0	0	0	0	--	21	7	0	0	0	0
CA EUREKA	59	51	61	50	55	-2	T	-.1	T	-.5	56	96	76	0	0	0	0
CA FRESNO	100	67	104	63	84	4	0	0	0	0	0	58	20	7	0	0	0
CA LOS ANGELES	80	66	84	63	73	-1	0	0	0	0	--	89	57	0	0	0	0
CA RED BLUFF	98	64	102	63	81	0	0	0	0	1.2	240	--	19	7	0	0	0
CA SAN DIEGO	81	70	85	69	76	5	0	0	0	0	--	87	63	0	0	0	0
CA SAN FRANCISCO	69	53	72	51	61	-2	0	0	0	-.1	50	85	54	0	0	0	0
CA STOCKTON	96	60	102	58	78	2	0	0	0	.5	5	79	26	6	0	0	0
CO DENVER	92	62	100	51	77	3	.1	-.2	-.1	3.2	78	52	22	4	0	2	0
CO GRAND JUNCTION	97	66	99	58	82	4	T	-.2	T	1.0	83	35	15	7	0	0	0
CO PUEBLO	96	63	104	57	80	4	.1	-.4	.1	1.3	32	60	21	6	0	1	0
CT BRIDGEPORT	87	72	92	66	80	6	T	-.9	T	9.1	128	87	52	1	0	0	0
CT HARTFORD	89	67	92	59	78	6	.7	-.2	.1	8.1	100	88	47	4	0	2	0
DC WASHINGTON	96	77	100	75	87	8	.1	-1.0	-.1	5.8	54	87	49	7	0	2	0
FL APALACHICOLA	90	77	91	72	84	2	-.2	-1.5	-.2	12.0	76	92	59	7	0	1	0
FL DAYTONA BEACH	90	75	91	72	83	2	T	-1.5	T	9.4	61	94	58	7	0	1	0
FL FORT MYERS	94	76	96	73	85	2	2.3	-.6	1.4	12.6	63	97	55	7	0	2	2
FL JACKSONVILLE	94	74	96	73	84	3	1.0	-.7	1.0	11.0	70	96	54	7	0	1	1
FL KEY WEST	90	80	92	76	85	0	2.4	1.6	2.2	11.6	118	78	61	6	0	5	1
FL MIAMI	89	79	89	74	84	1	.6	-.8	-.3	15.3	87	82	62	0	0	3	0
FL ORLANDO	93	75	95	74	84	2	.8	-.7	-.7	11.2	64	95	53	7	0	4	1
FL TALLAHASSEE	94	72	95	68	83	2	.3	-1.3	.3	17.1	96	96	53	7	0	1	0
FL TAMPA	92	77	94	75	85	3	2.3	-.4	1.0	11.8	67	89	53	7	0	5	2
FL WEST PALM BEACH	91	78	92	72	85	3	T	-1.4	T	12.0	74	79	57	6	0	1	0
GA ATLANTA	98	75	102	71	86	8	.1	-.8	.1	5.5	56	86	41	7	0	1	0
GA AUGUSTA	100	71	102	69	85	5	T	-1.0	T	6.5	53	96	38	7	0	1	0
GA MACON	99	73	102	71	86	5	-.2	-.7	-.2	6.4	67	95	39	7	0	2	0
GA SAVANNAH	96	75	99	74	85	4	.6	-.9	-.4	6.5	41	91	48	7	0	2	0
HI HILO	--	--	--	--	75	-1	1.1	-1.5	--	16.8	85	--	--	--	0	--	--
HI HONOLULU	89	72	91	71	80	0	.3	.1	.3	.6	50	83	47	2	0	1	0
HI KAHULUI	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
HI LIHUE	--	--	--	--	78	-1	.2	-.3	--	4.4	102	--	--	--	--	--	--
ID BOISE	86	49	91	45	68	-7	0	-.1	0	-.3	21	48	15	2	0	0	0
ID LEWISTON	87	56	94	50	72	-2	0	-.1	0	1.9	73	48	17	1	0	0	0
ID POCATELLO	85	50	91	39	68	-4	T	-.1	T	1.5	83	55	15	2	0	0	0
IL CAIRO	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
IL CHICAGO	88	70	93	65	79	7	2.0	1.3	1.0	8.6	95	91	56	4	0	6	2
IL MOLINE	89	69	93	62	79	4	2.7	1.9	1.2	10.5	103	90	59	3	0	5	2
IL PEORIA	91	70	97	67	81	6	1.7	1.0	1.0	10.1	120	95	57	5	0	5	1
IL ROCKFORD	86	69	90	66	78	5	2.0	1.2	1.1	11.3	113	86	58	1	0	4	2
IL SPRINGFIELD	94	73	98	68	84	8	1.1	-.5	.6	4.0	45	95	54	6	0	3	1
IN EVANSVILLE	97	74	101	73	85	8	T	-.7	T	10.7	130	77	40	6	0	0	0
IN FORT WAYNE	87	69	91	62	78	5	.2	-.5	.2	6.2	72	93	66	2	0	2	0
IN INDIANAPOLIS	91	69	94	65	80	5	2.3	1.7	1.6	9.0	103	95	62	5	0	3	2
IN SOUTH BEND	89	71	95	65	80	8	1.2	-.4	-.6	7.3	87	88	55	3	0	4	1
IA BURLINGTON	90	71	95	68	80	4	2.6	1.9	2.4	13.1	139	--	--	4	0	2	1
IA DES MOINES	89	69	97	57	79	4	1.2	.5	-.9	7.6	84	73	53	4	0	4	1
IA DUBUQUE	85	69	91	65	77	5	2.4	1.6	.2	9.8	92	88	55	2	0	3	0
IA SIOUX CITY	90	65	104	55	78	2	2.6	2.0	2.2	4.3	50	88	51	3	0	4	3
KS CONCORDIA	96	69	104	57	83	4	1.3	-.6	1.0	3.3	36	66	32	5	0	2	1
KS DODGE CITY	100	73	103	70	87	7	.1	-.5	-.1	5.5	76	66	29	7	0	1	0
KS GOODLAND	95	62	99	55	78	3	.1	-.4	-.1	9.6	152	72	27	6	0	1	0
KS TOPEKA	95	72	98	70	84	5	3.0	2.1	2.3	4.4	40	77	47	7	0	3	2
KS WICHITA	102	76	105	69	89	8	.6	-.1	-.5	2.4	24	51	30	7	0	2	0
KY LEXINGTON	89	71	93	69	80	4	.1	-.8	-.1	9.1	88	88	55	4	0	1	0
KY LOUISVILLE	94	74	98	69	84	7	.4	-.3	-.4	10.5	121	88	50	7	0	1	0

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

Weather Data for the Week Ending Aug. 10, 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	90 AND ABOVE	32 AND BELOW	TEMPERATURE °F		PRECIPITATION	
																.01 INCH OR MORE	.50 INCH OR MORE		
LA BATON ROUGE	92	74	93	73	83	1	.4	-.8	.4	13.5	112	99	55	7	0	1	0		
LA LAKE CHARLES	92	75	93	72	84	1	.2	-1.0	.2	9.7	74	65	53	7	0	3	0		
LA NEW ORLEANS	96	78	97	74	87	5	.3	-.9	.1	8.9	68	86	58	7	0	2	0		
LA SHREVEPORT	98	73	100	70	86	2	T	.6	T	4.4	64	92	36	7	0	0	0		
ME CARIBOU	80	61	87	55	70	6	.3	-.6	.2	8.3	97	94	46	0	0	4	0		
ME PORTLAND	88	65	93	58	76	9	.1	-.5	.1	6.0	92	87	47	3	0	1	0		
MD BALTIMORE	95	72	99	70	84	8	2.4	1.4	1.2	9.7	107	82	47	7	0	2	2		
MA BOSTON	91	72	94	66	81	9	0	.7	0	5.6	81	80	42	5	0	0	0		
MA CHATHAM	83	68	87	64	76	-1	0	.7	0	4.3	62	79	64	0	0	0	0		
MI ALPENA	82	61	87	51	72	6	1.7	1.1	1.7	7.1	113	--	--	0	0	2	1		
MI DETROIT	84	66	90	62	75	3	.6	-.2	.5	12.9	172	92	60	1	0	2	1		
MI FLINT	82	64	85	58	73	3	1.2	.5	.8	9.4	129	88	58	0	0	3	1		
MI GRAND RAPIDS	83	66	88	57	75	4	.4	-.2	.4	9.9	137	95	66	0	0	3	0		
MI HOUGHTON LAKE	81	61	86	47	71	5	.1	-.4	.1	5.2	72	95	54	0	0	2	0		
MI LANSING	83	66	88	57	75	4	.8	-.2	.6	5.7	83	92	64	0	0	3	1		
MI MARQUETTE	77	57	87	51	67	0	2.1	1.5	1.9	7.7	107	93	49	0	0	4	1		
MI MUSKEGON	82	66	87	56	74	4	1.2	.7	1.1	9.3	158	98	65	0	0	4	1		
MI SAULT STE. MARIE	79	53	86	46	66	2	1.4	.8	.9	7.1	104	98	50	0	0	4	1		
MN DULUTH	75	56	80	52	66	0	1.8	1.0	1.4	7.4	80	87	52	0	0	3	1		
MN INT'L FALLS	78	56	85	48	67	2	.7	-.1	.4	4.4	49	79	43	0	0	3	0		
MN MINNEAPOLIS	82	63	89	60	72	0	.9	.2	.6	8.3	97	77	48	0	0	5	1		
MN ROCHESTER	81	63	87	60	72	2	1.7	.9	.7	6.5	68	94	64	0	0	4	2		
MN SAINT CLOUD	81	57	90	51	69	-2	4.2	3.3	3.4	10.7	120	90	--	1	0	4	2		
MS JACKSON	99	73	101	71	86	4	.1	-.8	.1	5.0	56	95	42	7	0	1	0		
MS MERIDIAN	96	72	100	69	84	3	.1	.8	.1	7.5	74	98	49	7	0	1	0		
MO COLUMBIA	100	74	103	70	87	9	2.0	1.3	1.0	3.8	41	71	35	7	0	3	2		
MO KANSAS CITY	95	72	97	66	83	5	3.4	2.6	1.5	7.7	70	74	40	7	0	4	3		
MO SAINT LOUIS	99	77	105	72	88	10	.4	-.3	.2	6.6	73	78	36	6	0	3	0		
MO SPRINGFIELD	100	72	103	69	86	8	.3	-.3	.3	4.6	51	79	29	7	0	2	0		
MT BILLINGS	84	54	91	50	69	-4	.1	-.1	.1	2.2	63	55	21	1	0	2	0		
MT GLASGOW	78	53	86	43	65	-6	.2	-.2	.1	3.2	68	80	34	0	0	4	0		
MT GREAT FALLS	77	48	84	42	63	-7	.3	-.1	.2	4.5	98	74	28	0	0	3	0		
MT HAVRE	76	47	84	42	61	-9	.3	-.1	.2	3.6	86	84	31	0	0	3	0		
MT HELENA	80	49	86	43	65	-3	0	-.2	0	5.1	138	67	22	0	0	0	0		
MT KALISPELL	77	43	84	37	60	-5	.1	-.2	.1	3.7	95	96	36	0	0	2	0		
MT MILES CITY	83	55	94	49	69	-6	0	.3	0	3.9	75	71	25	2	0	0	0		
MT MISSOULA	81	43	89	37	62	-5	.1	-.1	.1	3.5	57	83	25	0	0	1	0		
NE GRAND ISLAND	95	67	104	55	81	4	1.7	1.7	1.6	6.0	273	72	35	6	0	1	1		
NE LINCOLN	96	70	104	56	83	6	1.3	.6	1.1	5.8	63	79	39	6	0	3	1		
NE NORFOLK	90	67	100	58	78	2	.6	0	.5	6.3	71	81	45	4	0	3	1		
NE NORTH PLATTE	93	62	103	51	78	3	.7	.2	.4	3.0	41	76	35	4	0	3	0		
NE OMAHA	91	71	99	60	81	4	1.1	.2	.7	10.6	107	87	61	3	0	2	2		
NE VALENTINE	87	62	106	42	75	0	1.0	.4	.8	4.1	59	72	40	3	0	2	1		
NV ELY	91	49	92	42	70	3	0	-.1	0	1.5	100	39	11	6	0	0	0		
NV LAS VEGAS	109	81	112	79	95	--	0	-.1	0	.5	71	20	8	7	0	0	0		
NV RENO	96	48	101	45	72	4	0	-.1	0	.6	67	52	10	7	0	0	0		
NV WINNEMUCCA	94	49	96	42	72	2	0	-.1	0	.5	36	35	6	7	0	0	0		
NH CONCORD	86	61	90	56	73	5	.6	0	.4	8.3	114	71	45	1	0	2	0		
NJ ATLANTIC CITY	87	68	91	65	77	3	.2	-1.0	.2	6.5	69	93	51	2	0	2	0		
NJ TRENTON	91	73	94	70	82	7	2.6	1.6	2.6	7.1	76	--	--	5	0	1	1		
NM ALBUQUERQUE	96	66	97	65	81	3	.2	-.2	.2	.9	35	70	23	7	0	2	0		
NM ROSWELL	94	70	100	66	82	3	.1	-.3	.1	.4	11	--	--	6	0	1	0		
NY ALBANY	86	62	90	56	74	3	3.1	2.5	2.7	11.8	171	86	47	1	0	2	1		
NY BINGHAMTON	83	64	87	58	74	5	.1	-.7	.1	8.5	104	90	50	0	0	1	0		
NY BUFFALO	83	68	88	62	75	6	.4	-.4	.4	12.2	194	88	59	0	0	2	0		
NY NEW YORK	90	76	94	72	83	7	T	-1.1	T	8.4	102	75	52	5	0	1	0		
NY ROCHESTER	86	67	93	63	77	6	1.3	.6	1.3	10.4	165	90	50	3	0	2	1		
NY SYRACUSE	87	67	92	62	77	6	.3	-.5	.1	7.4	101	93	48	3	0	3	0		
NC ASHEVILLE	91	62	94	59	77	3	.3	-.8	.3	7.3	71	--	48	5	0	2	0		
NC CHARLOTTE	97	72	99	71	85	6	0	-.9	0	5.2	54	88	36	7	0	0	0		
NC GREENSBORO	94	70	96	69	82	5	T	-1.0	0	6.6	68	97	44	7	0	0	0		
NC HATTERAS	88	77	89	75	83	4	.1	-1.4	0	10.3	80	98	67	0	0	0	0		
NC RALEIGH	95	72	96	71	84	6	T	-1.2	T	7.3	70	99	45	7	0	0	0		
NC WILMINGTON	96	77	97	74	87	7	0	-1.6	0	8.7	54	89	51	7	0	0	0		
ND BISMARCK	78	56	92	53	67	-4	1.3	.9	1.1	6.2	98	84	41	1	0	2	1		
ND FARGO	79	58	86	53	69	-2	.4	-.3	.4	3.7	50	82	49	0	0	2	0		
ND WILLISTON	75	56	81	50	66	-5	.3	-.1	.2	2.8	48	86	45	0	0	2	0		
OH AKRON-CANTON	87	70	91	63	78	7	1.2	.5	.8	11.0	134	73	55	1	0	3	1		
OH CINCINNATI	89	70	93	65	80	4	.6	-.1	.4	11.3	127	96	63	4	0	3	0		
OH CLEVELAND	86	68	92	59	77	6	.7	0	.4	9.9	127	90	60	1	0	2	0		
OH COLUMBUS	89	71	94	66	80	7	1.2	.5	.9	10.8	116	88	57	2	0	4	1		
OH DAYTON	91	70	95	65	80	6	.9	.3	.7	12.6	156	88	58	5	0	3	1		
OH TOLEDO	87	67	92	62	77	5	1.3	.6	.8	9.3	122	93	58	2	0	2	1		
OH YOUNGSTOWN	82	66	86	59	74	4	2.0	1.2	1.4	14.8	178	97	61	0	0	4	1		

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

Weather Data for the Week Ending Aug. 10, 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	72 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE	
OK OKLAHOMA CITY	102	77	103	73	89	7	0	-	.5	0	2.9	39	61	26	7	0	0	0
TULSA	104	82	105	80	93	10	0	-	.6	0	5.6	62	61	29	7	0	0	0
OR ASTORIA	65	54	67	52	59	-1	.6	-	.3	.6	2.7	73	92	71	0	0	1	1
BURNS	83	41	88	32	62	-6	0	-	.1	0	1.1	69	64	13	0	1	0	0
MEDFORD	91	50	99	46	71	-1	0	-	.1	0	1.2	92	76	20	4	0	0	0
PENDLETON	84	52	93	47	68	-5	0	-	.1	0	1.9	127	--	20	1	0	0	0
PORTLAND	84	57	95	54	70	3	T	-	.1	T	2.5	114	87	30	3	0	0	0
SALEM	85	47	94	42	66	-1	0	-	.1	0	2.0	100	94	30	2	0	0	0
PA ALLENTOWN	92	72	97	67	82	9	.3	-	.7	.3	4.4	48	80	43	6	0	2	0
ERIE	82	68	88	60	75	5	1.8	1.1	.6	15.8	200	--	--	0	0	4	2	
HARRISBURG	92	69	95	64	80	5	.8	0	.8	5.0	65	82	52	5	0	2	1	
PHILADELPHIA	93	75	95	74	84	8	.5	-	.5	.4	9.0	100	79	47	6	0	2	0
PITTSBURGH	87	68	91	65	78	7	.8	0	.4	12.8	156	98	61	1	0	4	0	
SCRANTON	89	67	92	63	78	7	.5	-	.3	.6	9.0	105	86	43	3	0	2	1
RI PROVIDENCE	88	70	93	63	79	7	.3	-	.6	.3	7.1	106	87	49	3	0	2	0
SC CHARLESTON	94	75	96	72	84	4	T	-	1.6	T	10.2	61	93	54	7	0	0	0
COLUMBIA	98	70	101	68	84	3	1.2	-	.1	1.0	4.7	42	96	38	7	0	2	1
GREENVILLE	95	69	98	67	82	4	0	-	.9	0	8.1	85	95	38	7	0	0	0
SD ABERDEEN	86	59	102	54	72	-1	.2	-	.3	.2	3.7	52	84	33	2	0	1	0
HURON	88	62	106	52	75	1	1.9	1.5	1.3	10.1	158	74	41	3	0	4	1	
RAPID CITY	84	55	99	45	70	-4	.6	-	.2	.6	7.2	114	68	29	1	0	2	1
SIoux FALLS	86	62	96	50	74	0	.7	-	.1	.6	4.6	57	74	42	2	0	6	1
TN CHATTANOOGA	99	71	104	66	85	6	.1	-	.7	.1	4.1	41	79	40	6	0	1	0
KNOXVILLE	96	72	100	70	84	6	.3	-	.5	.3	6.0	64	90	41	7	0	1	0
MEMPHIS	98	79	100	78	88	7	1.0	-	.2	1.0	11.5	144	74	41	7	0	1	1
NASHVILLE	95	71	99	69	83	4	.3	-	.5	.3	6.9	84	90	48	6	0	1	0
TX ABILENE	96	74	98	68	85	0	.8	-	.3	.8	2.1	36	73	31	7	0	1	1
AMARILLO	93	67	99	65	80	1	.6	-	.1	.6	2.5	35	69	29	7	0	1	1
AUSTIN	94	77	99	73	86	0	.9	-	.5	.7	1.5	27	80	46	6	0	3	1
BEAUMONT	92	77	94	74	85	1	.4	-	.9	.3	3.5	28	88	60	7	0	3	0
BROWNSVILLE	91	78	97	75	84	0	7.2	6.8	1.4	8.7	193	83	54	5	0	4	1	
CORPUS CHRISTI	90	76	95	73	83	-3	10.6	10.0	6.1	12.1	233	89	59	5	0	3	2	
DEL RIO	97	75	102	69	86	-1	1.0	-	.8	1.0	1.6	48	70	32	6	0	2	1
EL PASO	99	75	102	69	87	6	.2	-	.1	.2	.4	15	48	20	7	0	1	0
FORT WORTH	100	79	102	76	89	3	0	-	.4	0	2.0	37	69	28	7	0	0	0
GALVESTON	87	80	89	74	84	0	.7	-	.2	.6	5.0	52	81	71	0	0	1	1
HOUSTON	94	78	98	74	86	2	.8	-	.1	.7	3.5	36	85	44	6	0	3	1
LUBBOCK	92	70	93	68	81	1	T	-	.4	T	3.1	56	69	33	6	0	1	0
MIDLAND	95	71	101	68	83	0	T	-	.4	T	1.6	41	67	26	7	0	1	0
SAN ANGELO	96	75	100	70	86	0	T	-	.3	T	3.4	97	70	30	7	0	0	0
SAN ANTONIO	94	78	99	73	86	0	2.5	2.1	1.7	3.2	63	82	49	6	0	4	1	
VICTORIA	92	76	97	73	84	-1	5.3	4.7	2.5	5.7	84	76	55	5	0	3	2	
WACO	97	76	101	72	86	0	0	-	.3	0	.3	7	83	35	7	0	0	0
WICHITA FALLS	102	77	105	74	89	3	0	-	.4	0	.3	5	67	28	7	0	0	0
UT BLANDING	93	60	97	58	76	4	T	-	.4	T	.4	21	56	14	7	0	1	0
SALT LAKE CITY	93	61	97	52	77	0	T	-	.2	T	1.8	78	50	15	6	0	0	0
VT BURLINGTON	85	62	90	53	74	4	.2	-	.6	.2	8.6	108	82	51	1	0	2	0
VA LYNCHBURG	96	70	98	69	83	7	1.2	-	.3	1.1	5.4	62	92	--	7	0	2	1
NORFOLK	96	76	100	73	86	8	.3	-	1.1	.1	2.7	24	78	40	7	0	3	0
RICHMOND	97	73	99	71	85	7	.2	-	1.0	.2	5.9	56	--	48	7	0	2	0
ROANOKE	93	68	97	66	81	6	1.2	-	.3	.6	8.2	99	91	46	7	0	4	1
WA COLVILLE	81	49	88	42	65	-3	.1	-	.1	.1	2.7	337	--	--	0	0	1	0
OMAK	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
QUILLAYUTE	68	49	77	46	59	0	0	-	.6	0	6.8	105	97	59	0	0	0	0
SEATTLE-TACOMA	78	54	87	51	66	1	T	-	.2	T	2.3	96	87	40	0	0	0	0
SPOKANE	81	51	89	45	66	-4	T	-	.1	T	1.3	62	64	23	0	0	0	0
WALLA-WALLA	86	59	96	55	73	-3	0	-	.1	0	1.0	59	52	21	1	0	0	0
YAKIMA	86	50	92	47	68	-2	T	-	0	T	1.1	122	61	22	1	0	0	0
WV BECKLEY	84	63	86	62	74	4	1.0	-	.1	.6	10.9	110	94	49	0	0	2	1
CHARLESTON	91	67	93	66	79	4	2.5	-	1.6	1.1	14.2	146	98	52	5	0	5	2
HUNTINGTON	91	70	95	69	81	5	2.3	-	1.5	1.2	12.0	136	95	55	4	0	3	3
PARKERSBURG	89	68	92	67	79	4	2.1	-	1.3	1.5	11.6	122	82	51	3	0	3	2
WI GREEN BAY	80	62	84	57	71	2	2.5	-	1.9	.9	8.2	114	96	63	0	0	5	3
LA CROSSE	85	68	92	63	76	3	3.0	-	2.4	1.5	9.1	103	91	65	1	0	6	2
MADISON	84	61	89	58	73	2	3.4	-	2.7	2.4	10.1	111	95	56	0	0	6	2
MILWAUKEE	81	65	85	63	73	2	2.8	-	2.2	1.4	11.3	145	94	59	0	0	4	2
WY CASPER	88	51	96	39	69	-3	.2	-	.1	.2	1.2	48	58	19	4	0	1	0
CHEYENNE	84	54	95	42	69	0	.4	-	0	.2	2.4	50	66	32	2	0	4	0
LANDER	86	53	94	42	69	-2	T	-	.1	T	.3	11	59	17	2	0	1	0
SHERIDAN	83	50	92	37	67	-5	T	-	.2	T	1.4	34	58	21	1	0	0	0
PR SAN JUAN	91	78	92	77	84	3	1.1	-	.5	.3	4.6	33	85	54	6	0	6	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. Showers scattered, amounts light.

Soil moisture very short to short. Fieldwork: 6.0 days. Corn: 86% dented, 85% 1979, 73% average; 54% mature, 65% 1979, 39% average; 16% harvested, 18% 1979. Soybeans: 74% blooming, 71% 1979, 72% average; 48% setting pods, 47% 1979. Cotton 92% setting bolls, 87% 1979, 88% average. Peanuts 90% pegging. Condition: Corn poor; soybeans, pastures poor to fair; cotton, peanuts, sorghums fair.

**ALASKA:** Many farmers throughout Railbelt took advantage of the 2 to 5 suitable days to wind up harvesting first crop hay. Fields of second crop brome ranged 6 to 16 in. in height. Overall progress far behind 1979 second crop. Small grains starting to turn color. Wind and rain damage light. Potato rouging continued. Squash, lettuce, and other vegetables readily available local markets. Soil moisture supply mostly adequate to surplus.

Tanana Valley temperatures averaged 4° above normal. Generally light amounts of rain recorded. Seasonal precipitation continues below normal. Matanuska Valley minimum temperatures averaged 2° above normal. Over 0.50 in. rain fell most areas and seasonal precipitation remains well above normal. Kenai Peninsula minimum temperatures averaged 3 to 4° above normal while maximum temperatures averaged near to slightly below normal. Precipitation ranged from 0.33 in. in the north to 0.75 in. in the south. Seasonal precipitation slightly above normal. Kodiak Island temperatures averaged about 3° above normal. Over 0.75 in. of rain fell. Seasonal precipitation remains 2.50 in. below normal.

**ARIZONA:** Hot, rather dry. Scattered thunderstorms weekend central mountains and central basins south-east. From traces to slightly over 0.75 in. Average temperatures 2 to 7° above normal.

Cotton growing conditions very good. Stands all squaring, 98% setting bolls. Safflower harvest complete. Sorghum continues making good progress. Early planted fields ripening fast. Most corn fields tasseling, some beginning to ripen. Alfalfa haying making good progress with southeastern areas having begun 6th cutting, while central areas continue 4th cuttings. Harvest spring cantaloups, watermelons virtually complete. Harvest vegetables complete. Preparations fall vegetables, melons well advanced. Citrus groves generally good condition with favorable new crop prospects. Limited ring picking lemons in progress. Spotty rains improved rangeland conditions some areas. Southern, central ranges rated poor to fair condition, fair to good north. Livestock fair to good. Water short south and central, adequate north.

**ARKANSAS:** Temperatures remained above normal. Highest temperature 107°, lowest 62°. All departures from normal +3 to +9°. Most rainfall 1.53 in., least zero.

Crops, livestock continued to suffer due to high temperatures and scarcity of rain. Soil moisture short. Fieldwork possible 7.0 days. Soybeans poor condition, blooming 53%, setting pods 20%. Late planted beans dying, several fields plowed under. Rice fair to good condition, 35% heading. Reports of blank heads. Few early planted fields being drained in preparation for harvest. Cotton suffering, setting bolls 98%, 92% 1979, 97% aver-

age. Corn and sorghum poor condition. Cattle condition fair. Weight loss, supplemental feeding continued. Ponds drying up, water supplies becoming critical. No hay or pasture regrowth. Pastures supplying below average feed.

**CALIFORNIA:** Some cooling in the inland portions of central and north. South, where greatest departures above normal were found, continued quite warm. Middle portion of the Central Valley cooled to the low 80's. Temperatures at, or above the century mark were common except along the Coast. Tahoe Basin temperatures dropped to the mid 30's overnight.

Hot weather speeded growth, field crops. Wheat, barley nearly harvested. Rice 20% headed, 53% last year. Crop developing rapidly, treated for armyworms. Cotton boll set 70%, 73% last year. Some boll drop, insects. Late bean planting near complete. Early bean harvest started. Sugar beets near completion, Imperial. Developing well in Valley. Corn, milo various stages growth. Safflower harvest starting. Alfalfa harvest continues. Grapes sizing and coloring well despite mildew, sunburn. Thompsons in full swing, Lower San Joaquin. Kiwifruit developing nicely. Nectarine, cling and freestone peach harvest increasing. Bartlett pear harvest ongoing. Pomegranates due to start. Plum, especially casselman, hit by heat. Prunes about to begin in north, already going in south. Valencia oranges hit by hot weather, soft pliable fruit. Lemons tapering off. Grapefruit continues. Almond hull split general. Shaking imminent. Black line hitting some walnuts, others developing normally. Artichokes decreased Castroville. Broccoli, cauliflower about steady Central Coast. Cantaloup volume steady San Joaquin Valley. Carrot volume moderate Salinas Valley. Celery volume steady Central Coast. Honeydew, mixed melon harvest increasing. Lettuce volume decreased slightly Central Coast. Bell pepper harvest continued heavy. Summer potato harvest active. Market tomato volume steady, harvest increasing Central Coast. Processing tomato harvest nearing peak volume. Watermelon harvest remained heavy San Joaquin Valley. Range feed adequate. Stock good condition. Water supplies sufficient. Some fires.

**COLORADO:** Temperatures generally 2 to 4° above normal. No precipitation until late in week when very sparse showers fell east of Divide on weekend.

Winter wheat harvested 97%, 94% 1979, 98% average. Barley ripe 58%, 57% 1979; harvested 48%, 49% 1979, 41% average. Spring wheat harvested 28%, 27% 1979. Corn average height 72 in., 74 in., 1979; silked 84%, 82% 1979; dough stage 15%. Sorghum headed 51%, 50% 1979. Dry beans flowered 66%, 74% 1979. Alfalfa 2d cutting 71%, 73% 1979, 74% average; 3d cutting 8%, 8% 1979, 10% average. Days suitable for fieldwork: 6.5. Ranges and pastures fair condition. Livestock good condition.

**FLORIDA:** Rainfall averaged below normal with amounts near 0.50 in. Panhandle, north to near 1.00 in. central, south with isolated heavier amounts. Temperatures averaged 2° above normal.

Soil moisture variable, short to surplus. Recent showers beneficial. Some Panhandle counties dry. Soil moisture adequate south, central and north short to adequate, corn harvest gaining.

Tobacco harvest virtually complete. Auction sales active. Soybeans responding to showers. Peanuts pegging, forming pods. Condition mostly good. Haymaking active. Sugarcane growth very good. Pastures good to excellent north central through southern Peninsula, poor to fair Panhandle and north. Cattle good condition. Citrus grove condition very good. Rain spotty, considerable irrigation underway. Some cover crops growing slowly. General grove care very active all areas. Land preparation for summer, fall vegetable plantings underway. Laying plastic very active. Light plantings underway. Planting, transplanting tomatoes, peppers expected to gain this week.

GEORGIA: Temperatures 4° above normal with more than half stations receiving no rain. Amounts under 0.50 in.

Soil moisture very short. Six days suitable for fieldwork. All crops under severe moisture stress. Armyworm populations increasing rapidly. Corn mostly poor to fair, much salvage harvest for silage. Surviving fields 98% dough, 89% dent, 75% mature, 23% harvested, last year 22%. Soybeans poor to fair, 65% blooming, 26% setting pods. Peanuts poor to fair, 100% blooming, same last year and average, 100% pegging, same last year and average. Cotton declining, poor to fair, 100% setting bolls, 99% last year, average 98%, 5% open this year and average, last year 3%. Tobacco mostly fair to good, 69% harvested, 84% last year and average. Watermelons poor to fair, 92% harvested, 93% last year and average. Peaches fair to good, 98% picked this year and last, 99% average. Apples fair to good, 27% picked, 32% last year. Pecans poor to mostly fair. Pastures and hay crops mostly poor to fair. Armyworm damage increasing. Cattle mostly fair to good, hogs fair to good.

HAWAII: Weather warm and humid, hot in some sections. Insect and diseases increased island of Maui causing yield reduction to leafy crops. Spray programs intensified all islands. Rains light and beneficial some areas. Irrigation heavy in most sections. Vegetable supplies adequate. However, semi-head lettuce and snap bean supplies light. Banana supplies light. Papaya supplies light. Showers beneficial. Pineapple at peak harvest. Very active. Sugar steady harvesting. Pastures generally fair to good.

IDAHO: Temperatures 5° below normal. Wind gusts of 30 mph in eastern regions. Precipitation scarce, very few reports of rain.

Winter wheat harvested 18%, 30% 1979, 28% average. Spring wheat harvested 8%, 14% 1979, 10% average. Spring barley harvested 10%, 12% 1979, 16% average. Dry peas harvested 6%, 86% 1979, 38% average. Mint harvested 53%, 58% 1979. Heavy frost in east. Some potato damage. Potatoes closing middles 96%; 98% 1979. Potatoes turning color 24%; 8% 1979. Fieldwork: 7.0 days suitable. Range and pastures dry. Water supplies adequate.

ILLINOIS: Temperatures 5 to 10° above normal. Precipitation 1.00 to 3.00 north, none south.

Soil moisture 25% adequate, 75% short. Corn condition 5% excellent, 16% good, 54% fair, 25% poor; 74% dough, 50% last year, average 65%; 24% dented, 12% last year, average 24%. Soybean condition 3% excellent, 34% good, 55% fair, 8% poor; 96% blooming, 85% 1979, 90% average; 70% setting pods, 57% 1979, 70% average. Winter wheat acreage 40% plowed, 28% 1979, 37% average. Oats 95% harvested, 89% 1979, 96% average. Alfalfa 2% excellent, 31% good, 51% fair, 16% poor; third crop cut 35%, 30% 1979, 25% average. Pastures 17% good,

35% fair, 43% poor, 5% failure. 6.0 days suitable for fieldwork.

INDIANA: Warm to hot. Good rains north and central. Temperatures averaged 7° above normal and ranged from 61 to 101°. Rainfall averaged 0.20 southwest, 0.70 northeast and southeast, 1.20 northwest, 0.90 west central and 2.50 central. Humidities and soil temperatures above normal.

Fieldwork: averaged 6.0 days. Topsoil and subsoil moisture short to mostly adequate. Corn condition fair to good. Soybean condition fair to good. Pastures fair. Corn 95% silked, 1979 92%, average 90%. Corn 55% in dough, 1979 40%, average 50%. Some pollination problems reported. Soybeans 97% blooming, 1979 90%. Soybeans 60% podding, 1979 45%, average 55%. Oats 95% harvested, 1979 80%, average 95%. Wheat 1981 cropland 15% plowed, 1979 10%, average 20%. Alfalfa hay 95% cut second time, 1979 85%, average 90%. Peaches 55% picked. Cantaloups 95% picked once. Apples 15% picked.

IOWA: Unseasonably warm with heaviest rainfalls since early June. Most of rain fell on weekend with considerable variation.

Fieldwork: 5.7 days favorable. Topsoil moisture: 57% short, 42% adequate, 1% surplus. Subsoil moisture: 56% short, 43% adequate, 1% surplus. Corn in or past milk stage: 85%, 1979 65%, normal 75%. Corn in or past dough stage: 40%, 1979 22%, normal 37%. Corn in dent stage: 15%, none 1979, normal 10%. Pods setting: 75%, 1979 83%, normal 79%. Second crop clover hay harvested: 80%, 1979 76%, normal 71%. Third crop alfalfa hay harvested: 20%, 1979 16%, normal 17%. Crop conditions improved. Pasture condition poor to fair. Heat causing some stress in livestock, market movement increased.

KANSAS: Heat continues. Temperatures averaging 82° northwest to 88° northeast, 5 to 9° above normal. Precipitation confined to central and eastern sections with 0.50 in. to 1.50 in. Local amounts as high as 2.00 in. to 4.50 in.

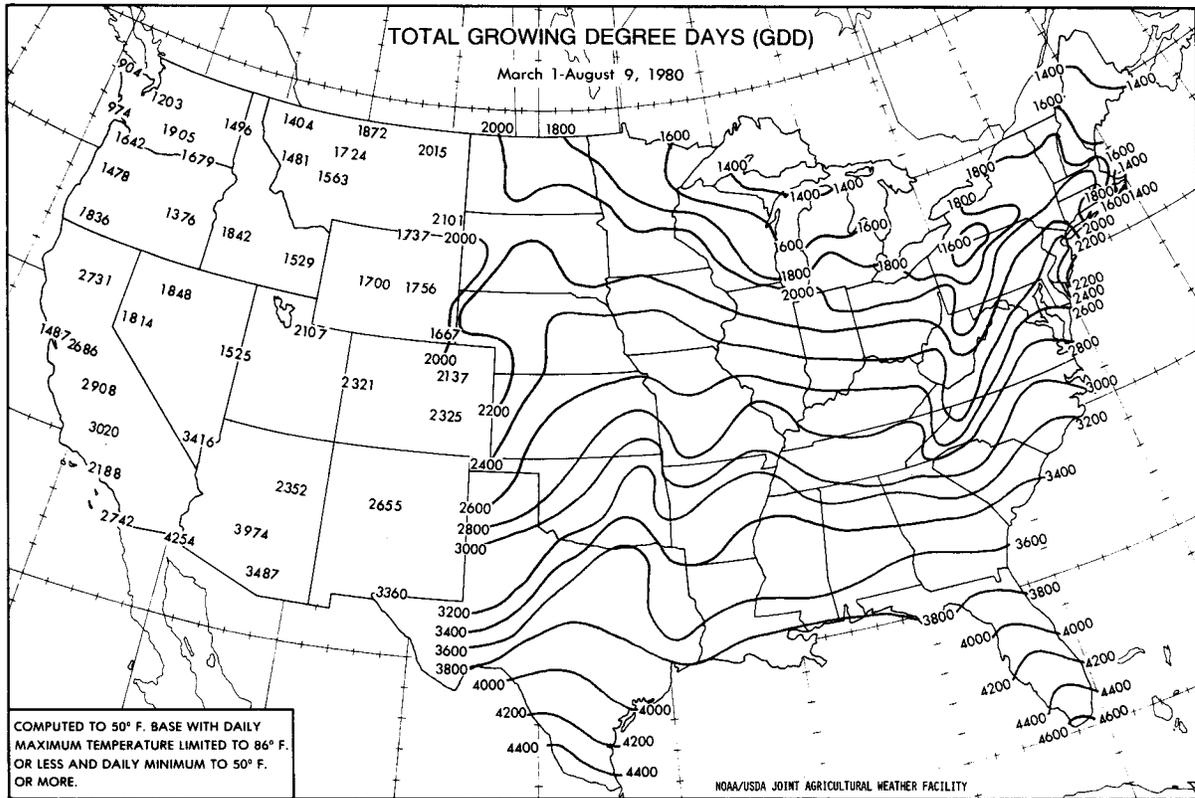
Rain beneficial to all crops, more is needed. Corn dough 50%, last year 45%, average 55%. Sorghum headed 40%, last year and average 40%. Soybeans podding 50%, last year and average 45%. Six days suitable fieldwork.

KENTUCKY: Mean temperatures continued to range we above normal, in most cases by 5 to 7°. Precipitation averaged around 0.50 in. in widely scattered thunderstorms.

Heat and lack of moisture continues to stress crops. Soil moisture 47% short, 53% adequate and 1% surplus. Corn 95% slied or later, 35% dough or later. Corn condition fair to good except western area where condition is poor. Some corn intended for grain being harvested as silage due to poor condition. Soybeans 80% blooming compared to 58% last year and average of 66%. Soybean condition mostly good to fair, and are in need of moisture. Tobacco has made rapid growth but still behind normal. Dark tobaccos tolerated heat better than burley. 22% burley and 35% dark types topped Blue mold and black shank causing problems. Limited amount of early cutting due to disease. Pastures fair to good except western areas mostly poor.

LOUISIANA: Rains scattered. Temperatures 1 to 4° above normal. Extremes: 67 and 102°.

Soil moisture short. Fieldwork: 4.9 days suitable. Corn poor to fair. Dough 97%, 97% 1979. Mature 66%, 76% 1979. Harvested 24%, 13% 1979, 12% average. Cotton fair. Setting bolls 99%, 95% 1979, 95% average. Bolls open 5%, 0% 1979, 1%



average. Rice fair to good. Headed 81%, 76% 1979. Ripe 39%, 35% 1979. Harvested 32%, 21% 1979, 27% average. Sorghum fair. Headed 88%, 94% 1979. Turning color 42%, 62% 1979. Ripe 14%, 16% 1979. Harvested 2%, 0% 1979. Sweetpotatoes fair. Harvested 13%, 7% 1979, 7% average. Vegetables poor. Pastures poor to fair. Haying active. Final cut 11%. Livestock fair to good.

**MARYLAND & DELAWARE:** Temperatures 5 to 6° above normal. Highs in low to mid 90's. Lows upper 60's to low 70's. Precipitation light. Corn 85% silked, 40% dough, 25% dented. Soybeans 35% bloomed, 20% podded. Alfalfa, third cutting 55%. Clover, third cutting 40%. Soil moisture short to adequate. Average 6.7 days suitable for fieldwork.

**MICHIGAN:** Temperatures 3 to 7° above normal. Rainfall ranged from traces to 3.00 in. in the Upper. Surplus moisture beginning to hurt many crops although corn, especially, is benefitted. Corn silked 88%, 86% last year, 92% normal. Soybeans pods set 40%, 32% last year, 44% normal. Drybeans had 58% pods set, 46% last year, 52% normal. Potato harvest 9% complete, 8% last year, 11% normal. Hay 2d cut 54% complete, 64% last year, 71% normal. Wheat harvest 91% same as last year. Sweet cherry harvest over. Tart cherries 93% harvested, 95% last year, 97% normal. Blueberry, cucumber, sweet corn and green bean harvest well underway. Peaches, pears, tomatoes just getting started.

**MINNESOTA:** Temperatures averaged 2 to 3° below normal in the northwest and west central divisions, 2 to 3° above normal in the north central and northeast districts, near normal elsewhere. Extremes: 95 and 39°. Precipitation averaged near normal to 0.50 in. below normal in the northern

districts and the southwest district, up to 1.00 in. above normal in the west central district, up to 2.00 in. above normal in the east central district, up to 3.00 in. above normal in the central district, up to 0.50 in. above normal in the south central district, up to 2.00 in. above normal in the southeast district.

Rains frequent but light. Many areas quite dry. Extensive hail damage west central to crops. Fieldwork limited central from muddy fields. Field corn: in milk 73%, 1979 17%, normal 57%; in dough 16%, 1979 2%, normal 23%. Soybeans: Setting pods 84%, 1979 44%, normal 68%. Cut or swathed: Winter wheat 97%, 1979 74%, normal 93%; rye 98%, 1979 70%, normal 92%; spring wheat 74%, 1979 10%, normal 54%; oats 91%, 1979 42%, normal 77%; barley 91%, 1979 40%, normal 79%. Combined: Winter wheat 85%, 1979 32%, normal 77%; rye 83%, 1979 28%, normal 76%; spring wheat 46%, 1979 2%, normal 33%; oats 72%, 1979 13%, normal 56%; barley 74%, 1979 9%, normal 55%. Sweet corn for processing: Harvested 18%, 1979 0%, normal 16%.

**MISSISSIPPI:** Spotty showers. Temperatures 2° above normal. Extremes: 64 and 103°.

Soil moisture mostly short. Fieldwork: 6.2 days suitable. Condition of most crops worsened as hot, dry weather continued. Insect and weed control were major farm activities. Hay crops 65% harvested, 62% 1979, 61% average. Peaches 88% harvested, 91% 1979 and average. Sweetpotatoes 3% harvested, 3% 1979, 5% average. Watermelons 88% harvested, 86% 1979, 82% average. Corn silage 49% harvested, 47% 1979. Peanuts 2% harvested, 5% 1979. Soybeans 81% blooming, 84% 1979, 78% average 46% podding, 42% 1979, 39% average; condition fair. Corn 95% dough stage, 98% 1979; dented 71%, 75% 1979; mature 33% this year and last; condition fair to poor. Cotton 95% setting bolls, 92% 1979, 90%

average; condition fair to good. Rice 62% headed, 35% 1979, 41% average; condition fair to good. Sorghum 76% headed, 66% 1979. Pastures fair condition.

MISSOURI: Precipitation averaged 1.00 to 2.00 in. Temperatures averaged 5 to 7° above normal.

Fieldwork: 5.5 days suitable. Corn 68% in dough stage or beyond, last year 39%, normal 55%. Corn 30% dented, normal 32%. Grain sorghum 67% headed, last year 61%, normal 67%. Soybeans 79% blooming, last year 66%, normal 70%. Soybeans 45% setting pods, last year 35%, normal 41%. Cotton 91% setting bolls, last year 74%, normal 57%. Alfalfa hay third cutting 52% harvested, last year 59%, normal 39%. Condition of corn and pastures mostly poor. Condition of cotton, soybeans and grain sorghum poor to fair. Topsoil moisture supplies short.

MONTANA: Temperatures averaged 3 to 8° below normal. Extremes: 94 and 26°. Portions of north central and northeast received heavy precipitation latter part of week, up to 1.50 in. Heavy showers also scattered areas west on 8th.

Grain harvest well along, harvest weather good. Topsoil and subsoil moisture becoming short except west. 6.0 days suitable for fieldwork. Second cutting alfalfa 40% harvested, wild hay 90%. Stock water supplies adequate western half, short to very short eastern half. Cattle and sheep conditions mostly good western two-thirds, eastern third fair. Turning color: Winter wheat 15%, 1979 55%, normal 45%; spring wheat 40%, 1979 55%, normal 45%; barley 35%, 1979 45%, normal 40%; oats 30%, 1979 55%, normal 40%. Ripe but not harvested: Winter wheat 30%, 1979 45%, normal 45%; spring wheat 30%, 1979 20%, normal 20%; barley 40%, 1979 40%, normal 30%; oats 35%, 1979 20%, normal 25%. Harvested: Winter wheat 55%, 1979 40%, normal 40%; spring wheat 20%, 1979 0%, normal 15%; barley 20%, 1979 5%, normal 15%; oats 30%, 1979 5%, normal 20%.

NEBRASKA: Precipitation light over panhandle; many other areas received 1.00 in. or more. Temperatures near normal over panhandle and north; 3 to 5° above normal south.

Dryland corn mostly poor to fair. Irrigated corn fair to mostly good. Silking 100%; 90% last year; 94% normal; 60% in dough; 25% last year; 40% normal. Soybeans mostly fair to good, 97% blooming, 80% podding; 70% last year and 80% normal. Sorghum mostly fair, heading 80%; 70% last year and 80% normal. Alfalfa mostly fair, third cutting 30% harvested; 15% last year. Topsoil moisture short. Subsoil moisture short. Pasture and range feed supplies short. Cattle movement limited. Livestock weight gains limited. Days suitable 6.9.

NEVADA: Mostly hot and dry. No significant precipitation. Temperatures averaged several degrees above normal all areas. Extremes: 29 and 112°.

Dry weather ideal for harvesting small grains and hay. Ranges continue to show some effect of the hot, dry, windy weather. Potatoes making good growth.

NEW ENGLAND: Warm humid weather continued; 5 to 10° above normal. Thunderstorms and showers widely scattered and total rainfall light. Cool Canadian air moved across region on 10th, the first time in several weeks.

Warmth and frequent showers pushed growth of corn and other warm season crops, but delayed the curing of hay. Harvest of apples, pears, and plums underway. Apples sizing well. Raspberries, blackberries and blueberries being picked. Sweet corn and summer squash abundant. Some problems with

fruit rot and mildew on vine crops. Some Aroostook County, Maine potato fields received hail damage. Some reports of poor tuber set in Round Whites. Soil moisture and grazing adequate to short.

NEW JERSEY: Temperatures averaged 5 to 7° above normal. Extremes: 55 and 98°. Rainfall averaged 0.59 in. north, 1.35 in. central and 0.39 in. south.

Fieldwork: 6.0 days suitable. Rainfall consisted of scattered showers. A good general soaking rain needed in most areas. Summer vegetable harvest active. Irish potato digging active. Sweet potato developing in response to recent showers. Blueberry harvest to windup next week. Peach volume continues to increase. Early variety apple harvest increasing. Field corn and soybeans responding to recent showers. Additional rain needed for continued development.

NEW MEXICO: Weather hot and dry. Increased shower activity, but totals generally well below normal.

Shower activity increased, but hot and dry conditions continue to prevail. Irrigated crops generally good condition, except corn, which varies from poor to excellent. Dryland crops in poor condition due to heat and lack of soil moisture. Cotton 95% of bolls set, well above last year and slightly above normal. The third cutting of alfalfa progressing, while the fourth cutting is well underway in the south. Ranges poor and dry. Some damage reported due to insects. Livestock in fair condition. However lighter than normal gains are expected. Supplemental feeding and liquidation of herds continues.

NEW YORK: Temperatures, humidity above normal. Rainfall quite variable, heaviest in Adirondacks and Hudson Valley.

Wheat harvest 75% complete, 79% 1979, 81% average. Oat combining under 10% done, 28% 1979, 31% average. Second cutting alfalfa 61% in, 64% 1979, 69% average. Corn, dry beans, soybeans good condition. Early sweet corn, snap bean, potato, apple, peach harvests in progress. Long Island irrigation continues.

NORTH CAROLINA: Temperatures 5° above normal. Precipitation light with scattered thundershowers.

Fieldwork: 6.2 days suitable. Soil moisture: 36% very short, 51% short, 12% adequate, 1% surplus. Conditions: All crops declining; pastures poor to mostly fair; corn, soybeans, hay fair; field tobacco, cotton, peanuts, irish potatoes, sweet potatoes, apples, peaches fair to good. Harvested: Sweet potatoes 2%, flue-cured tobacco 33%, 1979 54%, average 45%; corn for grain underway; corn for silage 6%; apples 8%, 1979 8%, average 7%; peaches 78%; hay 71%; 1979 76%, average 75%. Phenological stages: Cotton squared 95%; cotton set bolls 82%; corn silked 97%; corn soft dough 84%; corn dent 60%, 1979 70%; corn mature 31%, 1979 37%; soybeans blooming 56%, 1979 45%; soybeans pod set 30%, 1979 11%.

NORTH DAKOTA: It was one of the wettest weeks of season. Rainfall hit most of State except northeast and southwest corners. Heavy hail accompanied many of thunderstorms and damaged crops in central and southeast. Temperatures averaged near normal southeast and up to 5° below normal northwest. Extremes: 98 and 41°.

Cooler weather accompanied by rains slowed harvest and offered some relief to drought stressed row crops. Rains have been too little and too late for much of small grain crop. Some late small grain crops in northern areas as well as row crops, may benefit. Row crops and pastures still need good

soaking rain. Topsoil moisture now 71% short, 27% adequate, 2% surplus. Subsoil 96% short. Durum crop condition 53% poor and 46% fair. Percentage of small grains swathed or combined this year, last year and normal: Spring wheat 54, 7, 34; durum 29, 2, 17; barley 61, 26, 54; oats 64, 19, 49. Condition of row crops good, fair and poor: Sunflower 19, 66, 15; corn 16, 35, 49; soybeans 33, 67, 0; dry edible beans 14, 72, 14; potatoes 0, 100, 0. Sunflower currently 51% in bloom or beyond compared to 71% normally. Pasture growth 69% poor, 28% fair and 3% good. Hay supplies very short with livestock still being marketed.

**OHIO:** Average temperatures 5 to 8° above normal. Maximums averaged in the mid to upper 80's while warm nights were mostly in the upper 60's and low 70's. Extremes: 62 and 95°. Precipitation ranged from 0.05 to 1.50 in. Humidity levels quite high.

Corn and soybean development moved rapidly toward maturity. Harvest of mid-summer fruits, vegetables and potatoes active. Oat harvest neared completion in late maturing areas. Insect activity remained at relative low levels. Blue mold continues as a major threat to burley tobacco. Livestock were not under stress. Corn in dough 35%, 30% 1979, 40% average. Soybeans setting pods 60%, 65% 1979, 80% average. Oats harvested 85%, 80% 1979, 95% average. Potatoes harvested 15%, 10% 1979, 15% average. Tobacco topped 45%, 30% 1979, 25% average. Fieldwork: 4.0 days favorable. Pasture condition good. Soil moisture adequate to surplus.

**OKLAHOMA:** Temperatures ranged from 1° above normal in the southeast to 8° above normal in the central and northeast. Precipitation very light. Largest average was 0.03 in. in the Panhandle and west central divisions. Five out of nine divisions reported no precipitation.

Scattered showers kept temperatures down some areas but generally rainfall amounts insufficient alleviate drought condition. Topsoil moisture supplies short. Subsoil moisture supplies short. Sorghum heading 60% 1980, 40% 1979, 65% average; sorghum milk to dough 15% 1980, 15% 1979, 30% average. Cotton squaring 90% 1980, 95% 1979 and average; cotton setting bolls 50% 1980, 35% 1979, 50% average. Days suitable for fieldwork: 6.8.

**OREGON:** Temperatures near normal along coast, 1 to 5° below normal interior. No precipitation except along coastal zone.

Soil moisture supplies short in west and several eastern counties. Winter wheat good, 64% harvested, 86% 1979. Haying and grass seed harvest continuing. Peppermint harvest starting, Bartlett pear harvest next week. Early peach harvest continuing. Norgold potato harvest in full swing. Bush bean harvest continuing. Other vegetables look good, delayed development. Livestock condition good to excellent. Pasture and range condition fair to excellent. Non-irrigated areas drying up. Fire danger moderate to high. Grasshopper problems in scattered areas.

**PENNSYLVANIA:** Warm west, hot east and humid State-wide. Temperatures 4 to 9° above normal tying warmest week of summer. Extremes: 97 and 52°. Evening showers and thunderstorms produced 1.00 to 2.50 in. rainfall north and west.

Five days suitable. Soil moisture mostly short to adequate. Wheat harvest 91%, last year 88%. Oats 71% combined, last year 52%. Potato harvest 12%, last year 18%. Corn 66% silked, 12% in dough; last year 63% silked and 12% in dough; average 60% silked and 17% dough. Fall plowing 16%, last year

5%. Alfalfa second cutting 76%, last year 74%. Third cutting alfalfa 20%, last year 12%. Second cut Clo-tim 46%, last year 44%. Hay quality 47% good to 35% fair. Feed from pasture below average to average.

**PUERTO RICO:** Island average rainfall 1.27 in. or 0.35 in. below normal. Temperatures averaged about 83° on coasts and 76° interior divisions. Extremes: 96 and 59°.

**SOUTH CAROLINA:** Abnormally hot weather persisted. Scattered thunderstorms produced substantial but spotty rainfall and all areas need additional moisture.

Days available for fieldwork: 6.0. Drought stressing all crops. Corn condition poor; 6% harvest includes salvage as silage, 10% year ago, 13% average; 60% mature, 66% last year, 64% average. Some cotton shedding leaves, young fruit due to stress, poor condition as insect pressure mounts; 99% setting bolls same as 1978, average 94%; 4% open bolls ahead of last year, average data. Soybean condition poor to fair, prematurely shedding leaves under stress; some very short plants blooming 62%, 72% year ago, 63% average; acreage setting pods 18%, 31% year ago, 28% average. Tobacco condition poor to fair, local showers helping; 49% harvested, 87% last year, 79% average. Peaches fair condition, fruit size reduced with lack of moisture; 85% harvested, 91% last year, 93% average. Apples fair to good under weather stress, 3% harvest behind 10% last year. Some fall tomatoes destroyed by heat; snap beans 20% planted, 10% year ago. Weather burning pastures to generally poor condition.

**SOUTH DAKOTA:** Near normal temperatures and welcomed rainfall. Temperatures ranged from 5° above normal to 4° below normal. Extremes: 114 and 30°. Rainfall substantial all areas except northwest and north central.

Topsoil moisture adequate only part of northeast and east central. Short to critically short elsewhere. Small grain harvest about complete. Dryland row crops continued to deteriorate before rains came. Pastures poor. Supplemental feed and watering needed. Herd reduction or movement out of State continuing. Soybeans bloomed 94%; 91% 1979, 96% average. Sunflowers bloomed 68%, 47% 1979, 47% average. Soybeans setting pods 57%, 53% 1979, 67% average. Spring wheat harvested 97%, 26% 1979, 67% average. Corn silked 82%, 79% 1979, 88% average. Corn dough 22%, 12% 1979, 15% average. Grain sorghum headed 57%, 48% 1979, 53% average.

**TENNESSEE:** Warm and dry. Average temperatures well above normal, highest 99°. Rain scattered and light, mostly 1.00 in. or less.

Soil moisture mostly short. Fieldwork: 5.6 days suitable. Activities: Topping and spraying tobacco, mowing hay and spraying weeds. Corn 100% in dough, 1979 100%, average 70%. Corn 55% dented, 1979 39%, average 39%. Corn 7% mature, 1979 3%, average 5%. Cotton 100% setting bolls, 1979 99%, average 81%. Soybeans 80% blooming, 1979 68%, average 76%. Soybeans 33% setting pods, 1979 26%, average 28%. Burley tobacco 30% topped, burley 6% harvested, 1979 7%, average 6%. Pastures mostly poor, cattle on supplemental feed rations. Lеспедеза hay 25% harvested, 1979 25%, average 25%.

**TEXAS:** Shower activity developed early week. Saturday, Hurricane Allen 20 miles east southeast of Brownsville bringing thunderstorms, hurricane winds South Texas. Sunday, Allen downgraded to tropical storm located over South Texas bringing thunderstorms, strong winds. Temperatures 3° above normal Trans-Pecos, Low Plains. Temperatures 2° below

normal southwest, near normal elsewhere. Temperatures averaged near 80 Panhandle, to mid-80 Central North. Precipitation 6 to 8 in. above normal South, 0.50 to 1.00 in. above normal West, 0.33 to 0.50 below normal North, Panhandle, near normals elsewhere.

**Commercial Vegetables:** Lower Rio Grande Valley, damage from Hurricane Allen severe. Heavy rains, high winds ruined most plantings fall vegetables and replanting necessary. Although rainfall amounts heavy, dry soils absorbed much of the surplus moisture. Damage to the developing citrus crop most noticeable with droppage of some fruit, mostly on eastern edge of citrus area. Some severe tree damage occurred but in the major citrus area, tree damage light. Moisture beneficial to citrus groves. In Coastal Bend area, heavy rains slowed land preparation for fall cucumbers, cabbage. In San Antonio-Winter garden area land preparation, planting of fall vegetables continued until interrupted by Hurricane Allen. Carrots, tomatoes, cabbage planted. Some replanting necessary. In East watermelon harvest active. Sweetpotatoes need rain. In North supplies of watermelons increasing. Black-eyed peas, okra continue to be available. In Trans-Pecos area, supplies of cantaloup, chilipeppers, honeydew melons, onions and squash available. On High Plains, harvest of onions, potatoes, peppers, cucumbers, and tomatoes active. Supplies of onions, potatoes tapering off. Peach harvest nearing completion East, starting on High Plains. Pecans continue to show effects of moisture stress.

**Range and Livestock:** Hurricane Allen brought relief to parch condition southern areas. Rainfall amounts varied. Rains will aid new forage growth. Grass remained short and dry requiring supplemental feeding. Some loss occurred from prussic acid, nitrate poison. Sheep and goat shearing active. Livestock remain fair to good condition.

**Crops:** Drought interrupted by Hurricane Allen. Allen struck lower Texas Coast Saturday, bringing varying rain. Damage to crops, livestock, although not yet fully assessed, appears less severe than anticipated. Heaviest damage occurring Lower Rio Grande Valley, Coastal Bend. Despite high winds, Allen brought much needed rain to South benefitting parched pastures, replenishing subsoil moisture. Cotton harvest moved slowly with activity just beginning Cross-Timbers, Blacklands. Harvest interrupted by intermittent showers and Hurricane Allen. Unharvested cotton Lower Rio Grande Valley, Lower Coast, northward to Corpus Christi virtually all lost. Cotton modules survived strong winds but are soaked from driving rains. In North, Plains, cotton continues to show effects of drought. Plants in dryland fields shedding squares, producing small bolls. Sorghum harvest continued at steady pace, 62% harvested. Harvest moving north into Low Plains. Field prospects reported poor. Many stands reported prematurely, heads underdeveloped, light. Many fields failed to produce grain, being cut for silage or grazed out. Irrigated stands remain fair. Corn harvest 34% complete. Dryness has affected ear formation, development. Irrigated fields Plains, continue fair to good condition. Harvest moving toward Plains despite rain delays. Many fields have been cut for silage. Rice harvest moved at feverish pace in the face of hurricane, 93% complete compared to 51% last year. Reports indicate yield, quality down. Because of Allen, some fields harvested greener than expected. Peanuts continue development, irrigated stands in good condition. Dryland stands Blacklands, Central showing effects of heat. Plants short, maturing rapidly. Soybeans in fair condition. Fields Northeast, beginning to bloom, Coastal fields setting, filling pods. Many pods not filled properly. Hay condition, cutting remains at stand-

still. May improve with rains from hurricane. Sugarcane suffered severe wind damage from hurricane. Moisture from the storm may be helpful.

Cotton setting bolls 92%, 72% 1979. Cotton harvested 7%, 3% 1979. Rice harvested 93%, 61% 1979. Sorghum harvested for grain 62%, 42% 1979, 47% average. Corn for grain harvested 34%, 11% 1979, 13% average.

**UTAH:** Few isolated showers and thunderstorms. Accumulated amounts generally light to moderate. Average temperatures slightly cooler ranging between 2° below normal to 6° above.

Fieldwork: 7.0 days suitable. Soil moisture short but irrigation water in good supply. Small grain and hay harvest major activities. Winter wheat combining nearing half-way mark. Spring wheat and barley harvest active. Second crop alfalfa 85% harvested. Some rain damage, but tonnage has been good. Tart cherry harvest complete. Early peaches will be on the market within a week. Field corn nearly 66% tasseled. Below average crop expected.

**VIRGINIA:** Hot, humid. Temperatures averaged about 7° above usual; east, southwest a little cooler. Extremes: 105 to 55°. Several new record high temperatures set. Rainfall from scattered thunderstorms averaged about 0.25 in. Amounts varied from none to over 1.00 in. Scattered reports hail, gusty winds.

Many irrigation ponds dry, especially in tobacco belt. Topsoil moisture mostly short. Fieldwork: 5.6 days available. Corn 90% silked, 55% in dough, condition mostly poor. Cutting silage. Soybeans fair; spider mite, weed control active. Peanuts good but need rain. Tobacco harvest progress: Flue-cured 14%, 16% 1979, 19% average; fire-cured 3%, 6% 1979, 7% usual; burley 2%, 3% 1979, 3% average; sun-cured less than 1%, 16% 1979, 6% usual. Burley tobacco only fair due to blue mold, other types mostly good. Pastures, hay poor to fair. Potato digging ending on Eastern Shore. Apple sizing, color adversely affected by dry conditions. Peach picking continued.

**WASHINGTON: West:** Temperatures and precipitation averaged near to slightly below normal. Mt. St. Helens eruption August 7 sent light ash north, northeast. No crop damage. Harvesting vegetables. Low green pea yields. Bulb, vegetable seed harvesting. Red raspberry picking complete, blueberry harvest in full swing. Cutting early grain and forages. Pastures drier southern and central areas.

**East:** Temperatures averaged 4 to 5° below normal. Precipitation near normal to slightly below. Light ash fall Yakima Valley, central basin. No crop damage. Cherry, apricot harvests complete. Early prune, Bartlett pear harvests getting started. Apple picking soon. Early Norgold potato digging. Mint and vegetable seed harvests active. Limited sweet corn harvest beginning. Alfalfa quality up, second cutting most, some early third. Grain harvest in full swing. Winter wheat yields mixed but overall good. Fungus strip lowering some to average. Barely yielding well. Dry bean, pea harvests nearing completion. Winter wheat harvested 45%, 79% 1979.

**WEST VIRGINIA:** Temperatures 5° above normal. Extremes: 97 and 54°. Precipitation above normal in north central and southwestern areas, normal in northwestern and central areas, and below normal in southern and northeastern areas.

Soil moisture adequate to surplus. Days suitable for fieldwork: 4.1. Wheat good to fair, 13%

(continued on page 26)

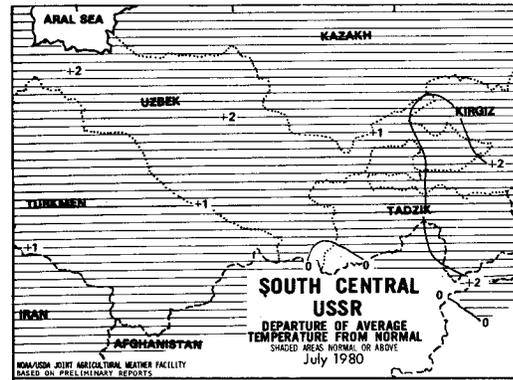
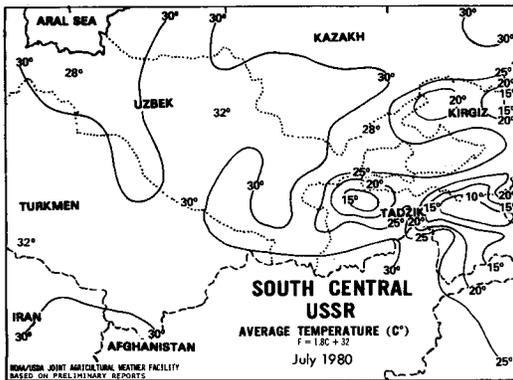
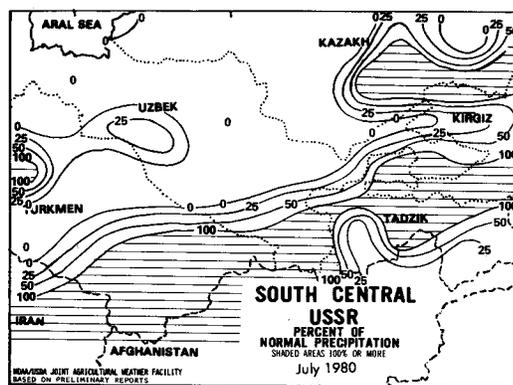
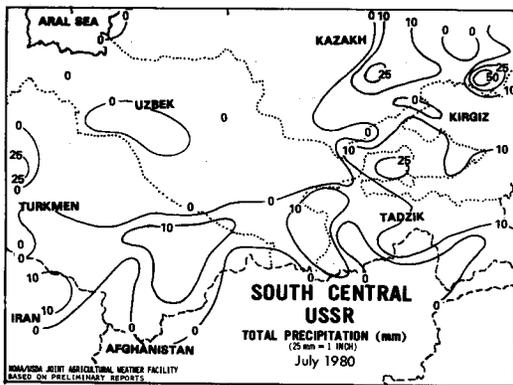
# International Weather and Crop Summary

August 4 - 10

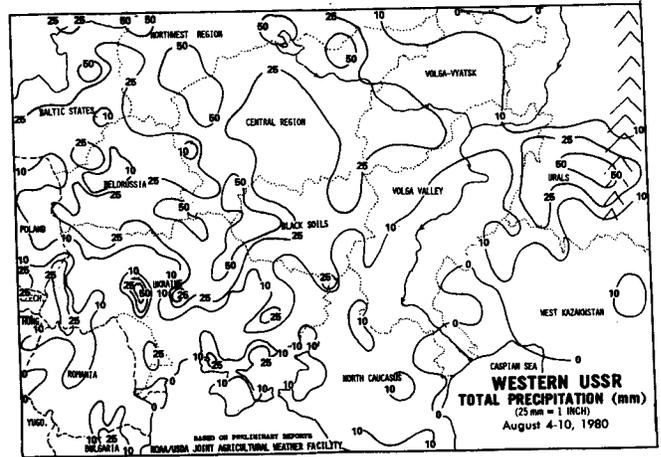
**HIGHLIGHTS:**

- USSR:** Harvesting winter grains...wet in parts of the West. Spring grains maturing in the South\*...favorable conditions.
  - EUROPE:** Harvesting winter grains in the North...drier weather very beneficial.
  - CHINA:** Spring-sown crops maturing\*...improved conditions.
  - INDIA:** Rice heading\*...continued abundant rainfall.
  - THAILAND:** Early rice crop maturing\*...monsoon rains slacken.
  - AUSTRALIA:** Winter grains semi-dormant...adequate moisture, except too dry in Northeast winter grain area.
  - ARGENTINA:** Winter grains semi-dormant...dry weather.
  - BRAZIL:** Winter grains semi-dormant...soil moisture adequate.
  - CANADA:** Spring grains in filling stage...soil moisture still short in southern Saskatchewan.
  - MEXICO:** Immature citrus in the Northeast...Hurricane Allen triggered beneficial rains.
- \*Based on normal crop calendar information.

JULY 8 PRECIPITATION DATA UNAVAILABLE--  
REFLECTED ON WEEKLY MAPS.

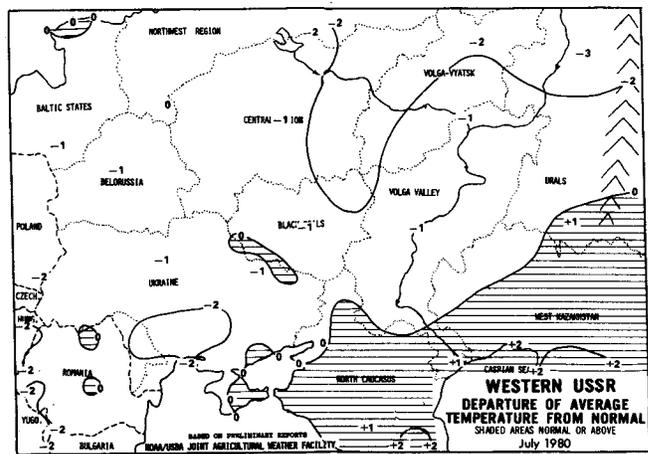
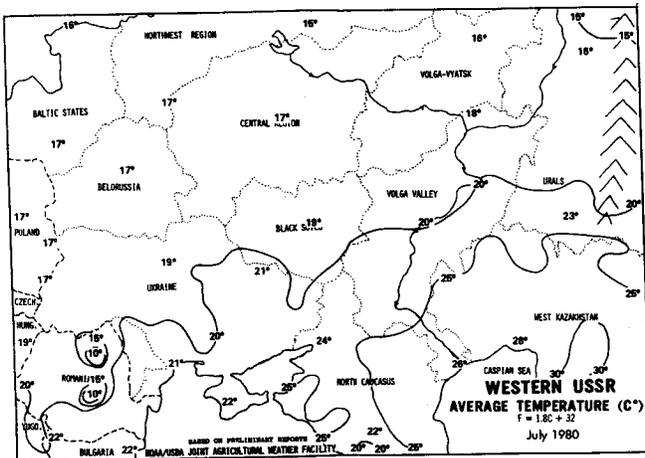
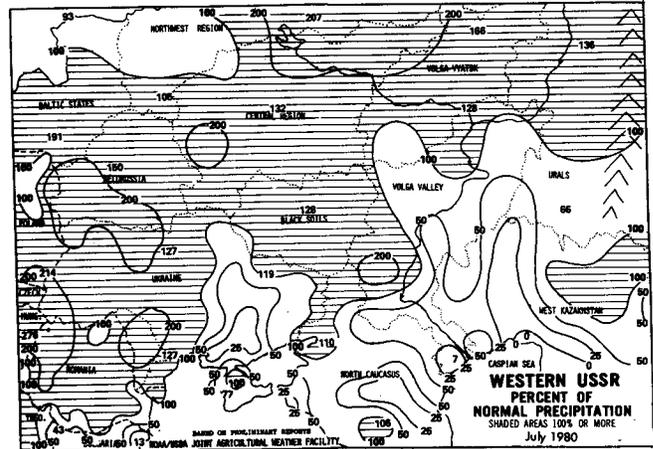
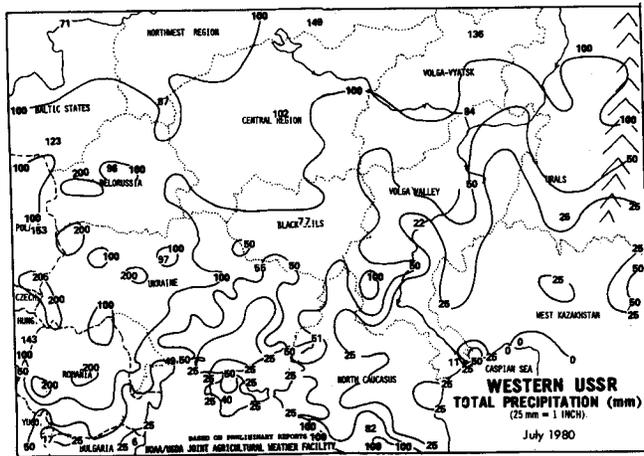


**WESTERN USSR.** Wet weather continued in scattered parts of the Ukraine, with relatively heavy rainfall in a band from southern Belorussia eastward through the north central Ukraine to the western Black Soils Region, preventing advancement of harvesting to the north. Fair weather prevailed over about half of the Ukraine's harvest areas, but generally the wetness represented a continuation of conditions which persisted through July. Similarly, a return of relatively wet weather to the north may have done more harm than good. Generally fair weather in the southeastern part of the winter grain belt favored late harvest activities but maintained too-dry conditions for row crops. Lastly, rains in the southern Urals came too late to help spring grains; dry conditions had persisted there for most of July.

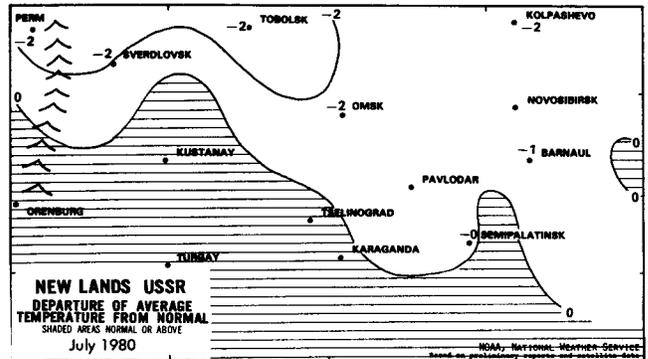
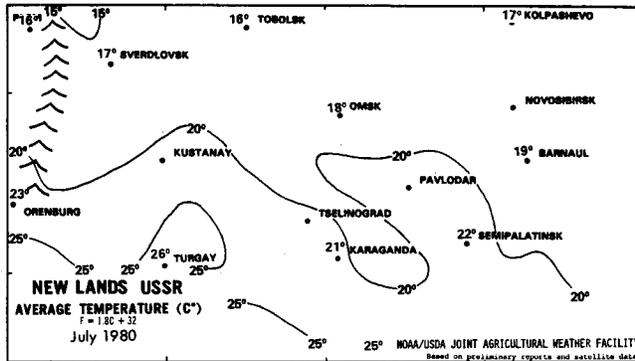
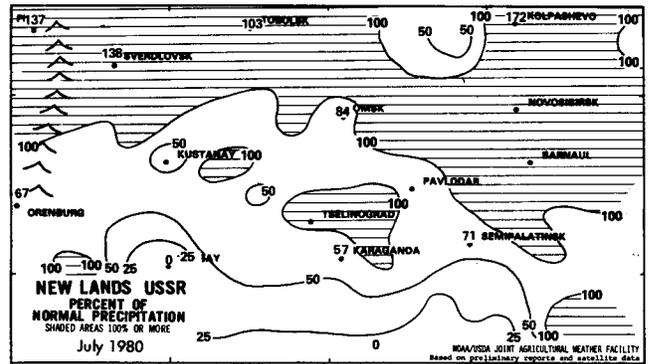
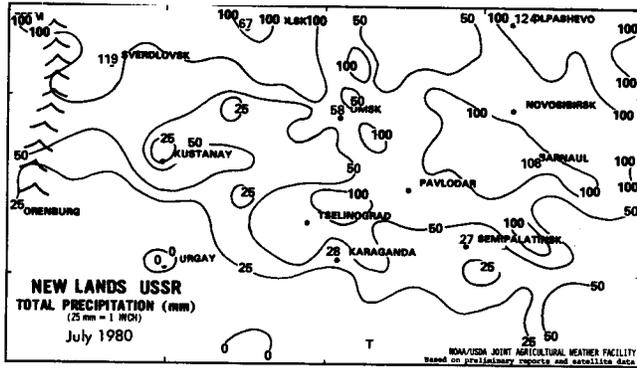
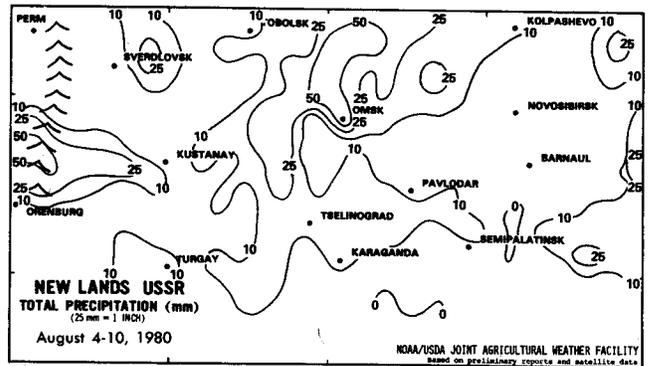


MAP # 7  
TOP RIGHT Pg. 14

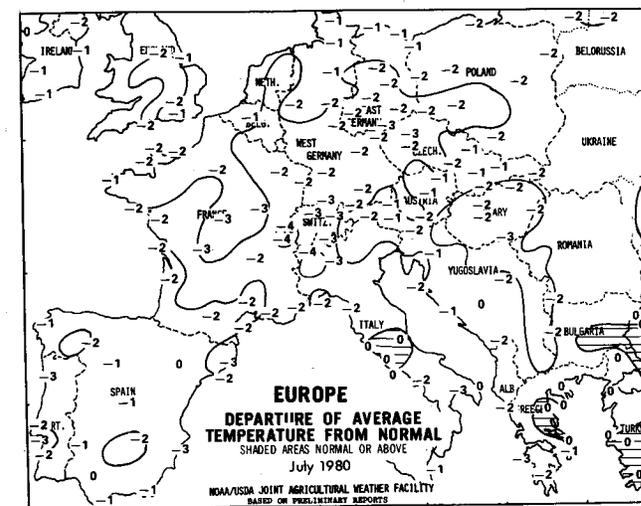
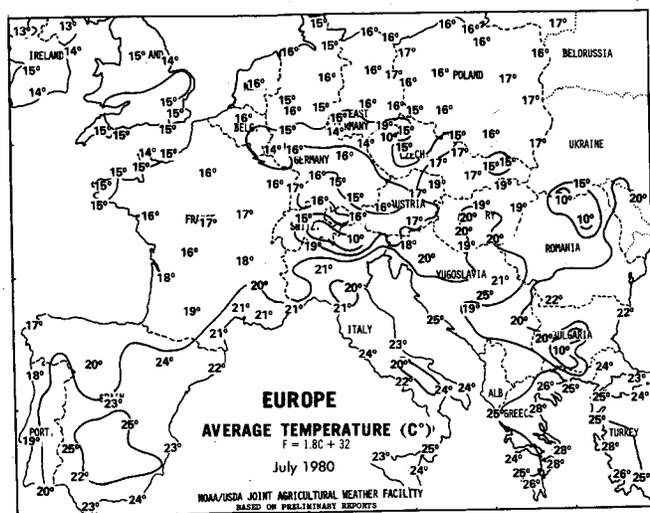
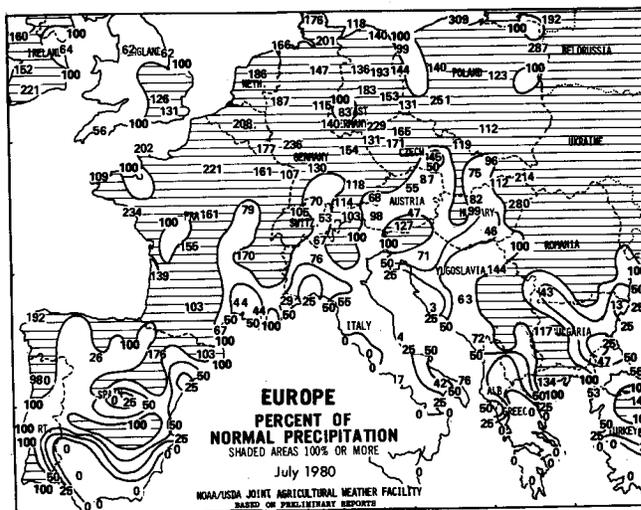
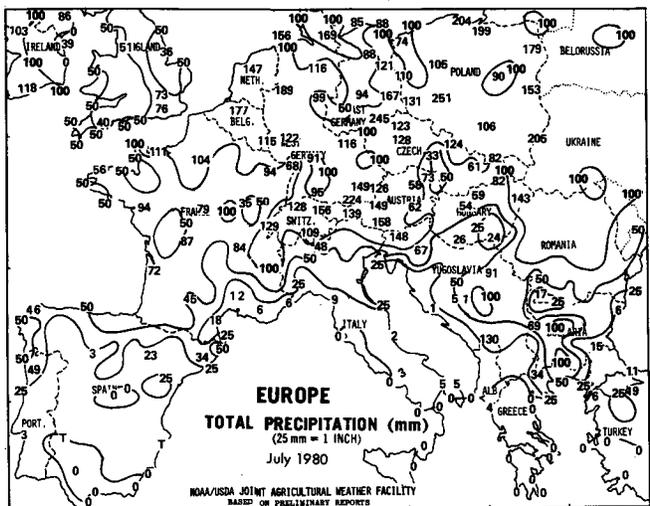
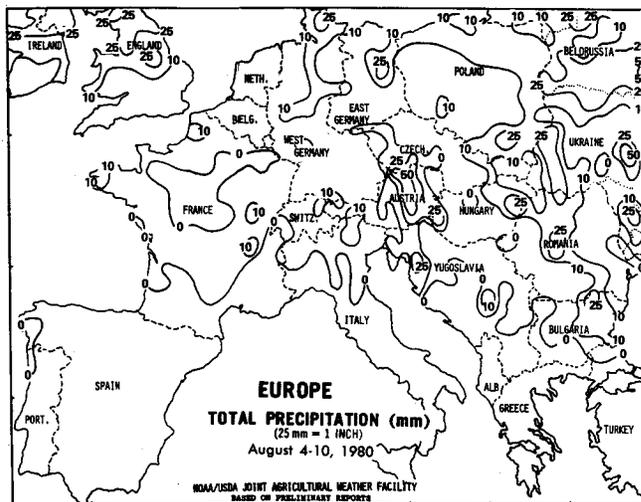
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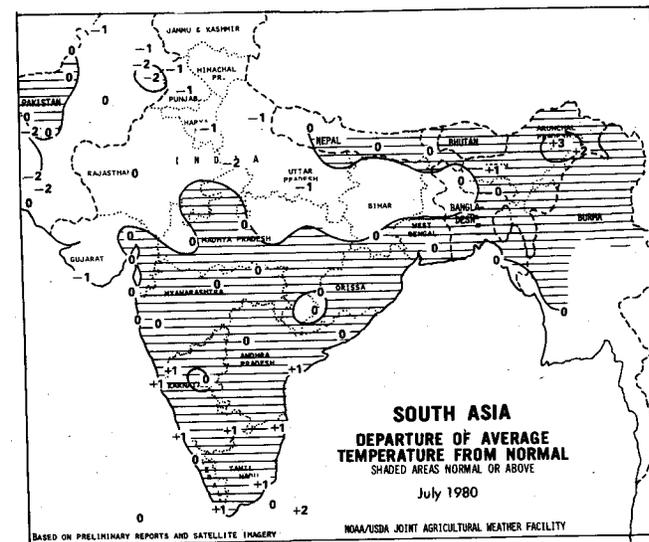
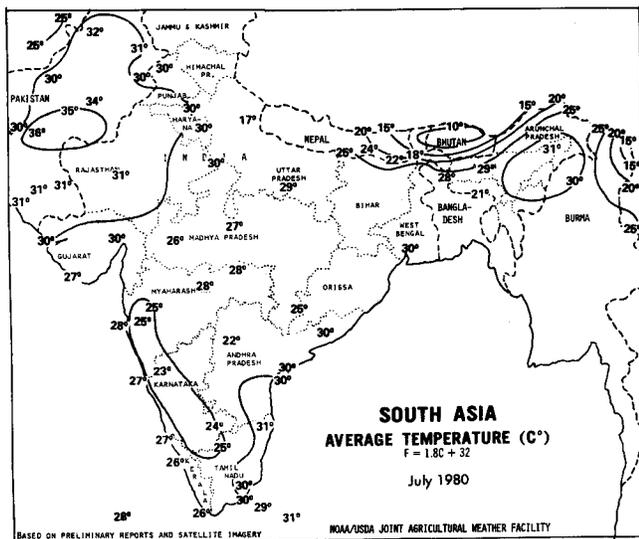
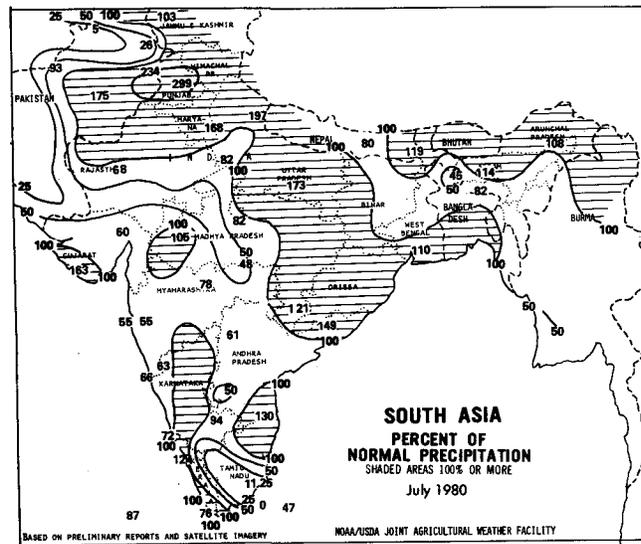
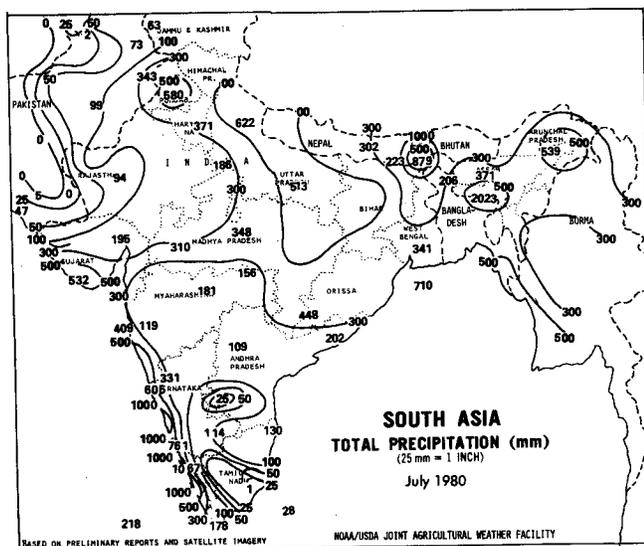
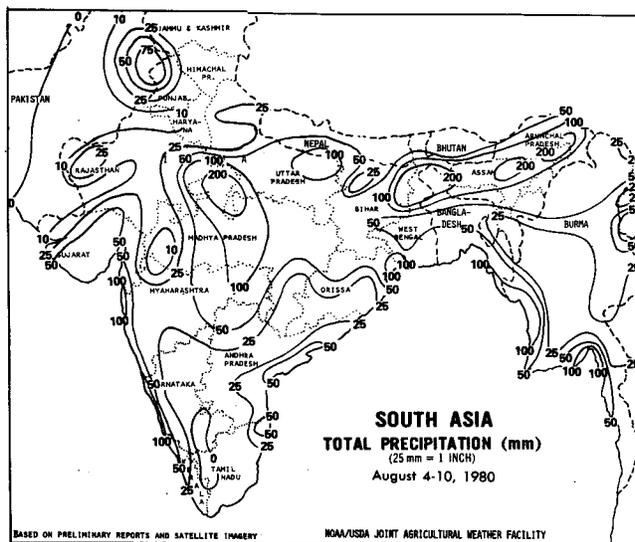
**NEW LANDS.** A slow-moving cold front dropped much-above-normal rainfall over the central portion of the New Lands, with generally lighter amounts to the east and west. Spring grains across the south have probably matured sufficiently so that they will not need more rainfall, but the northern areas will benefit from the moisture. By the same token, moderate rainfall to the southwest of Kustanay probably came too late to improve dry conditions. Rainfall in that area had been insufficient for normal crop development during July, and potential yields probably declined. The rest of the New Lands received mostly adequate rainfall in July, but a dry spell in the south during the month may have stressed grains during flowering. July temperatures were slightly above normal in the southwest and slightly below normal in the northeast, but readings dropped sharply late in the month and stayed low well into this week. No freezing temperatures occurred, however, and conditions were normal again at week's end.

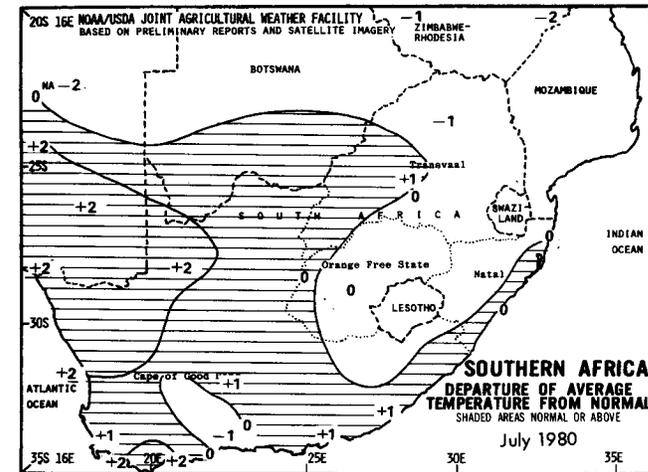
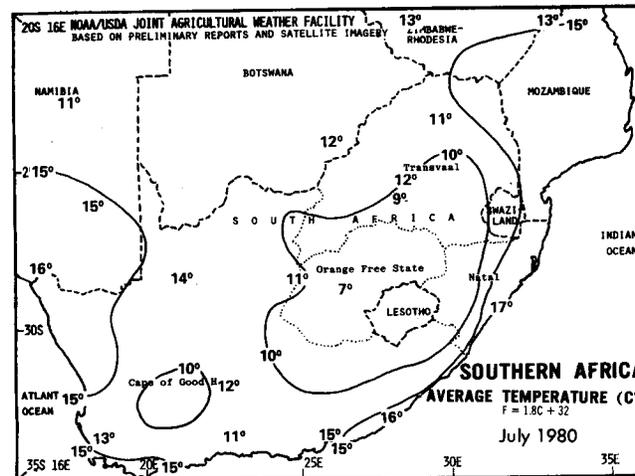
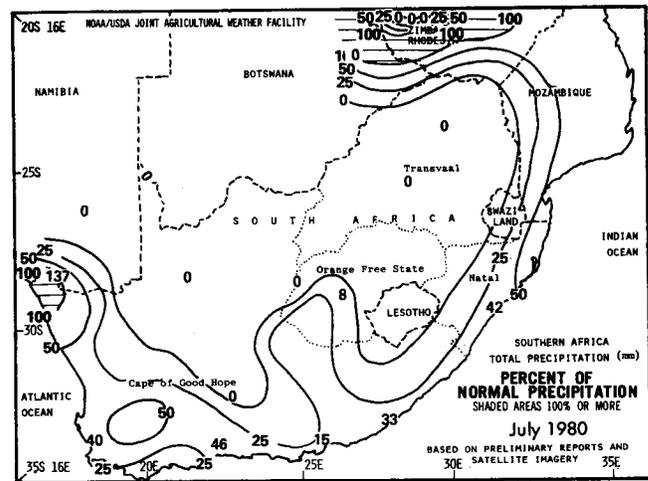
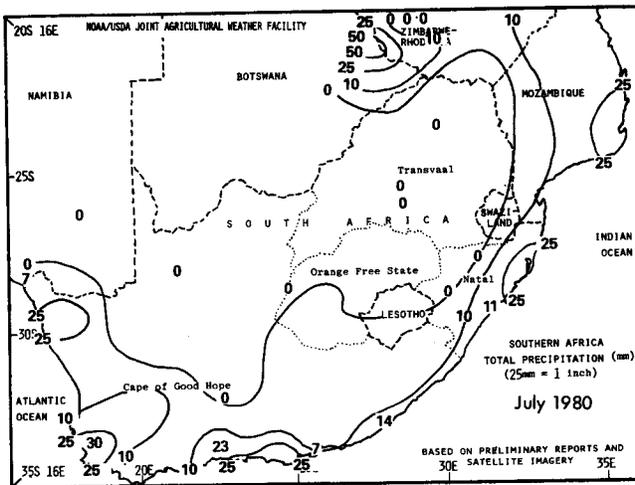
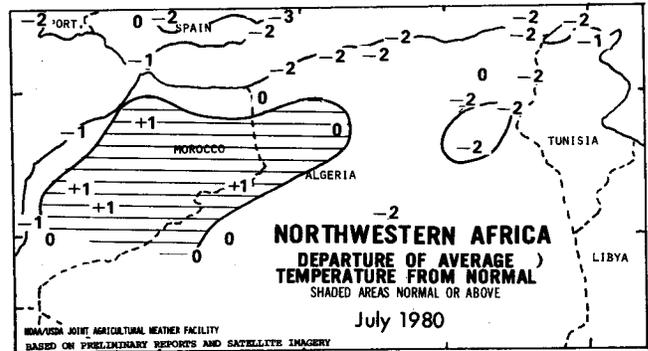
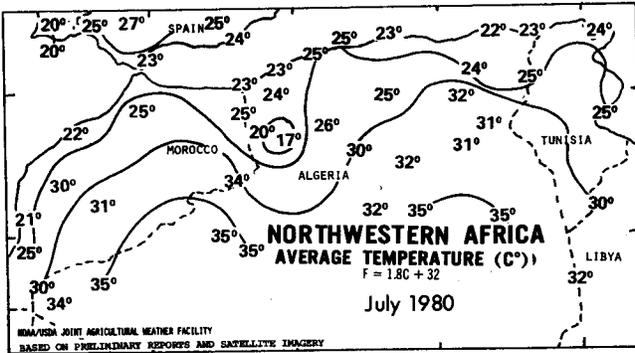
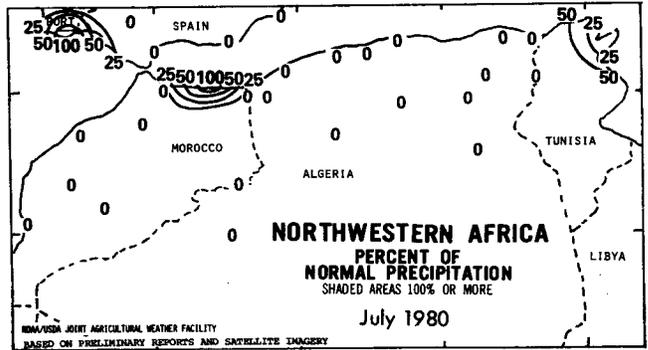
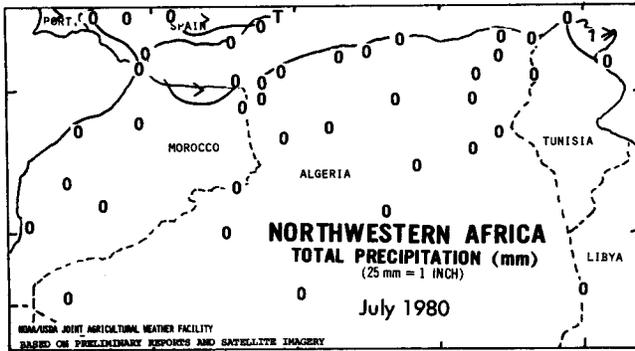


**EUROPE.** The decreasing rainfall trend continued this week, and only in the hills in Austria did totals substantially exceed normal. This was in marked contrast to July, when most of the north and east were colder and wetter than normal. Apparently, the change in weather came just in time for winter grains. Yield expectations remain high, especially in the western countries as harvesting begins. Spring-planted crops did not fare so well, and potential yields in the eastern countries had declined somewhat before the weather improved.

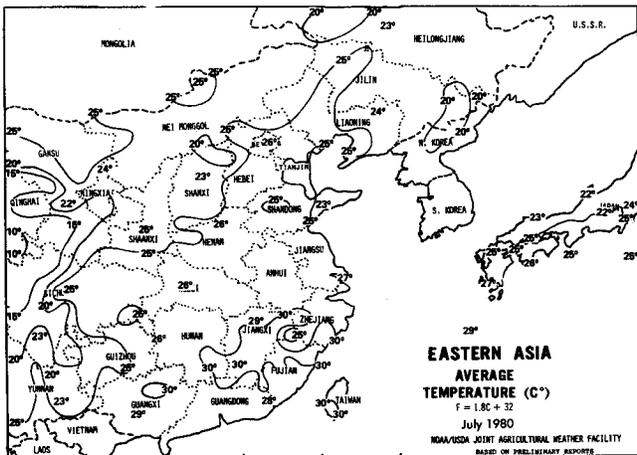
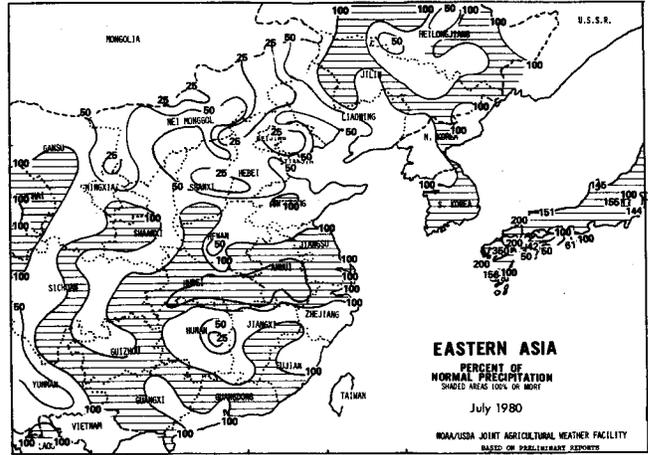
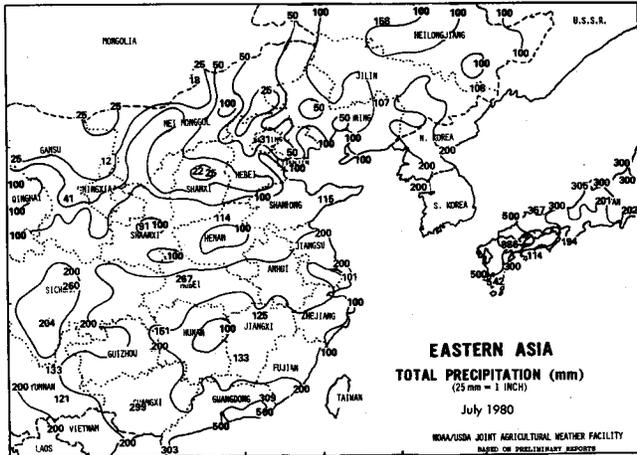
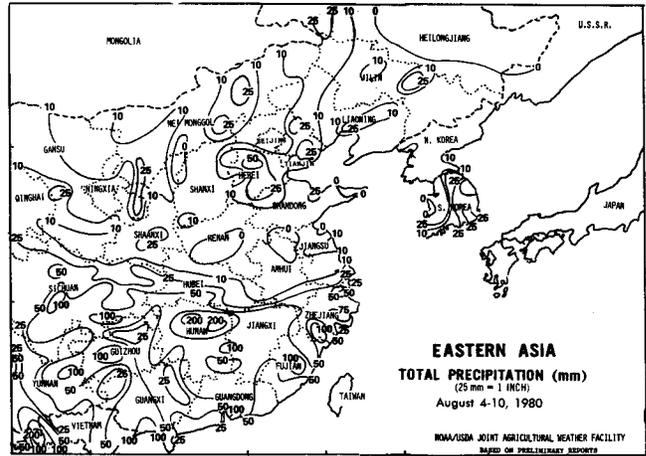


**SOUTHERN ASIA.** Relatively heavy rainfall continued across much of Bangladesh and northern India. Heavy rains in July over this area had produced extensive flooding, and this additional water will prolong that problem, but upland areas benefited from the wet weather. In spite of some dry pockets, which showed up in July, the monsoon has been favorable for the major crops to date. Generally speaking, those pockets have been of limited extent or have affected areas of relative unimportance at this time.

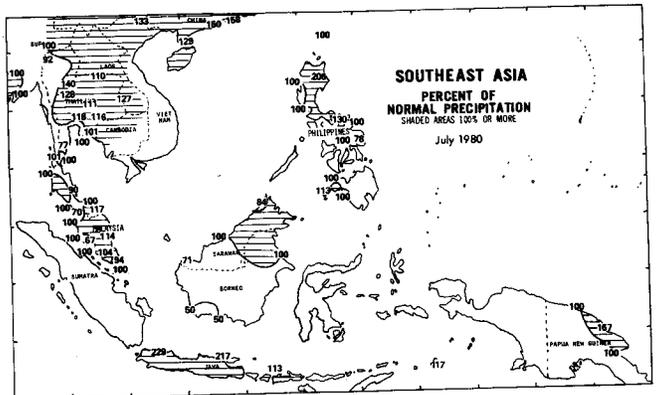
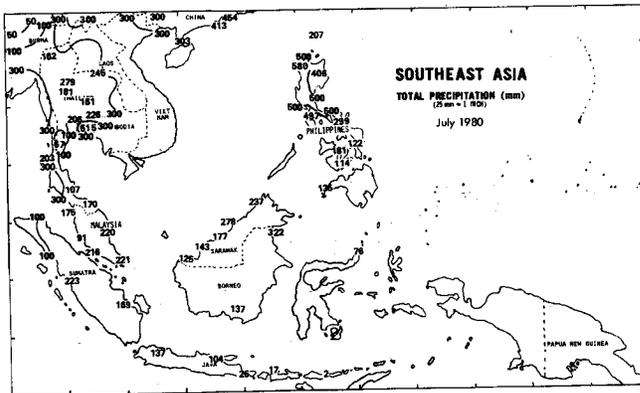
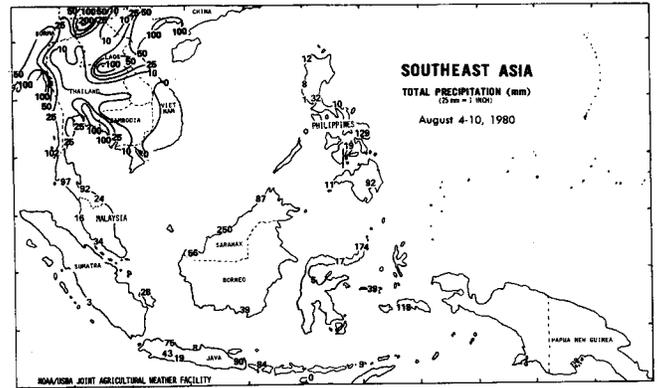




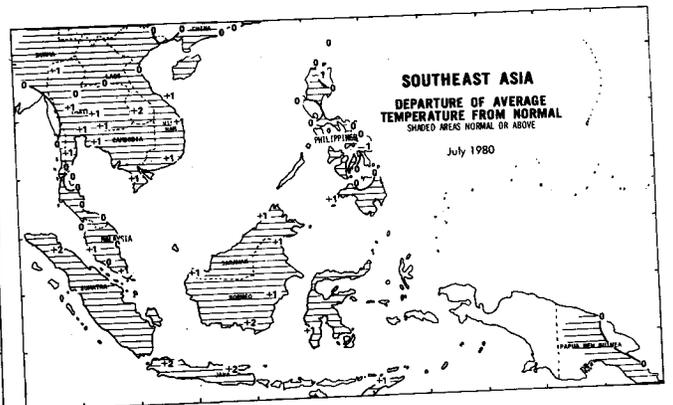
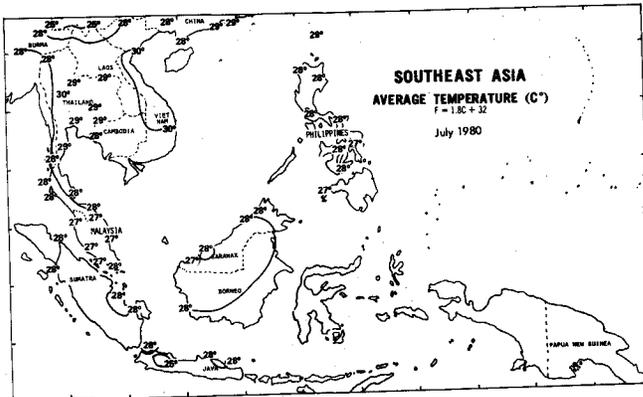
CHINA. Drier weather returned to the southern half of the North China Plain, giving crops a chance to dry out after last week's excessive rainfall. The region had stayed wet for most of July, so this change was badly needed in many areas. Some localized spots in the hills to the south received heavy rainfall this week, but near-normal amounts predominated, as was the case during July. Dry areas just south of Beijing got some relief late this week as a series of fronts moved through. Dry conditions in July had sharply increased crop irrigation needs in northern parts of the North China Plain and had hurt crop prospects to the northwest in Nei Mongol.



**SOUTHEAST ASIA.** Monsoonal activity produced above-normal July rainfall for most of Thailand. Maize and rice crops developed well with sufficient moisture supplies in the agricultural region north of Bangkok. Reservoir levels were increased with the abundant rainfall. Rainfall slackened this week in the Central Plains, which benefited the early (dry season) rice crop as it approaches maturity.

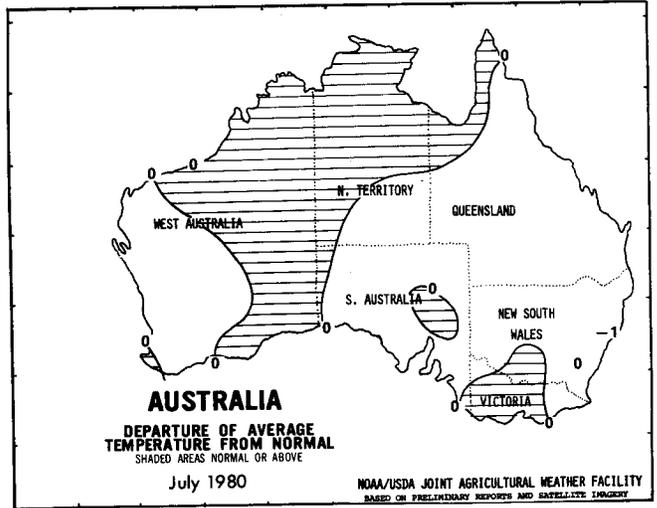
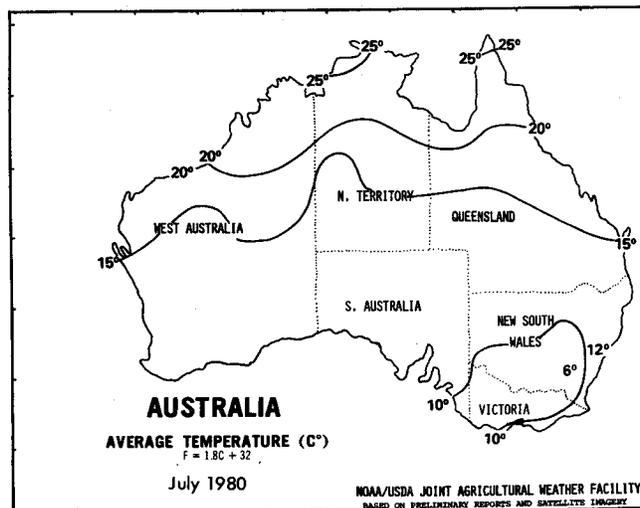
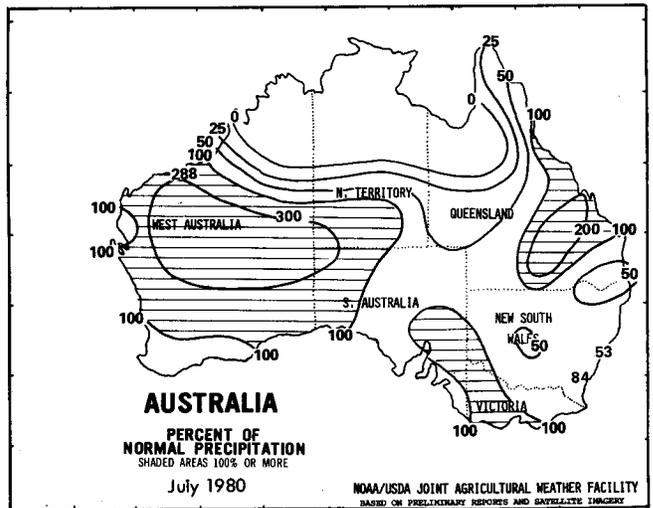
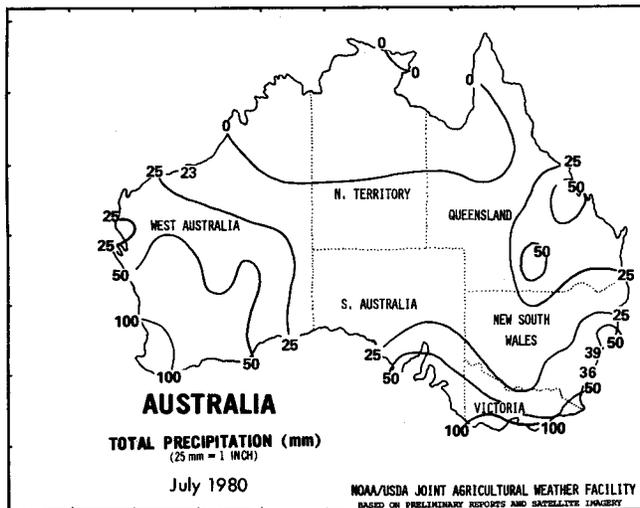
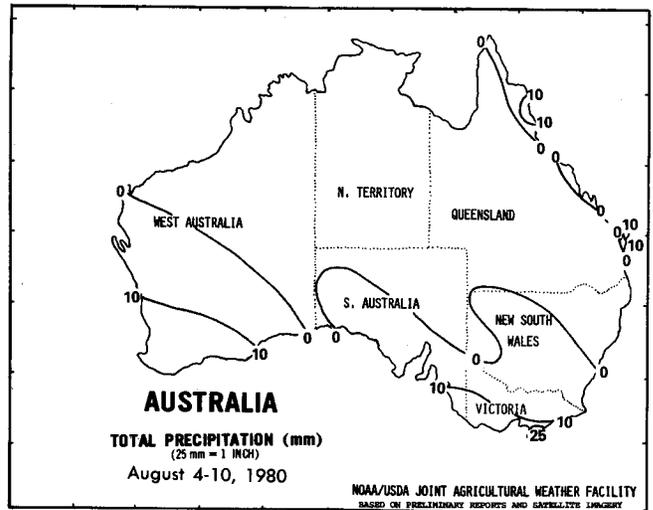


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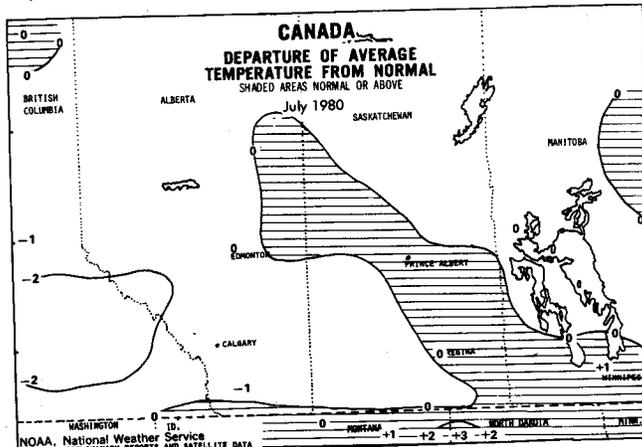
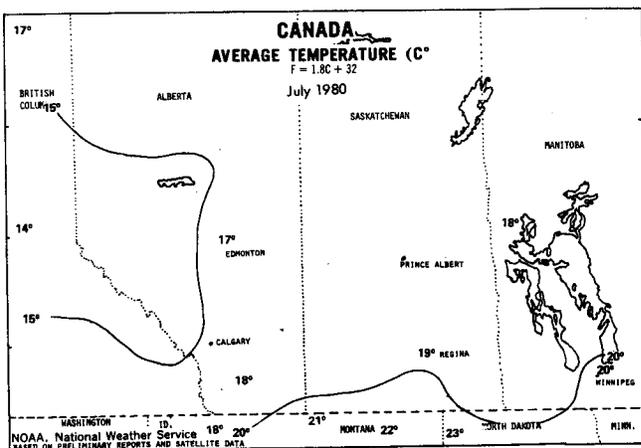
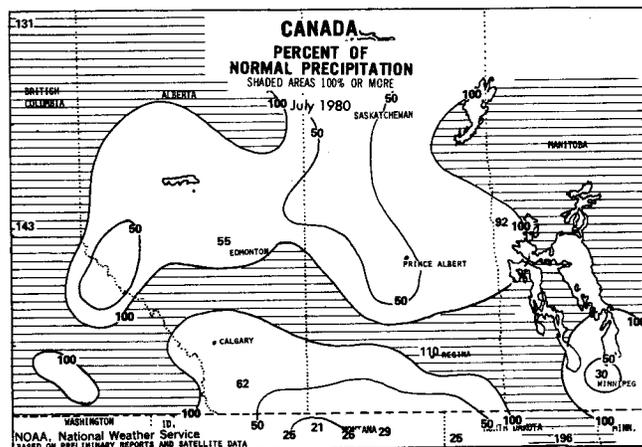
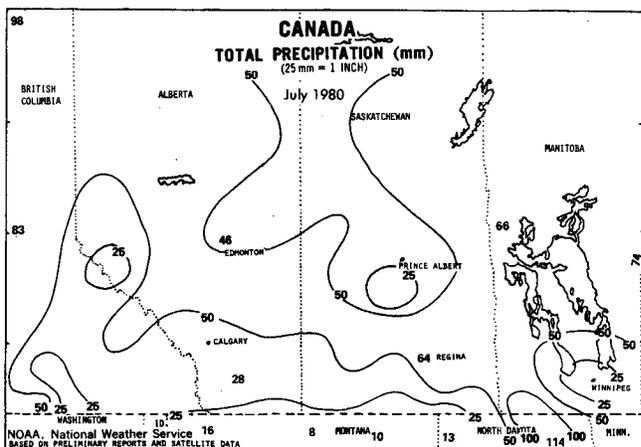
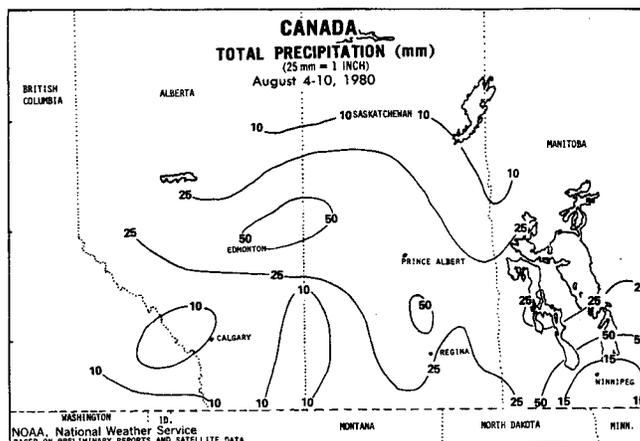


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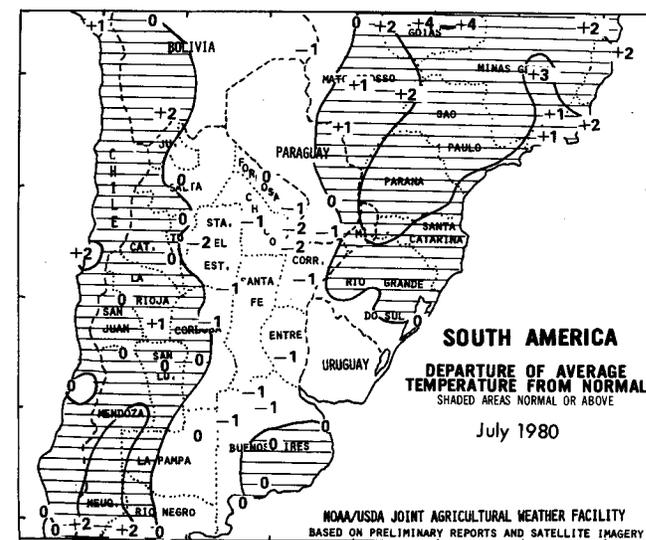
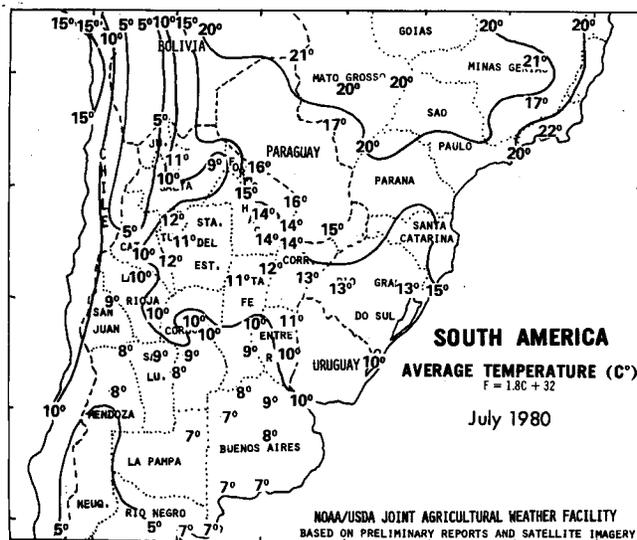
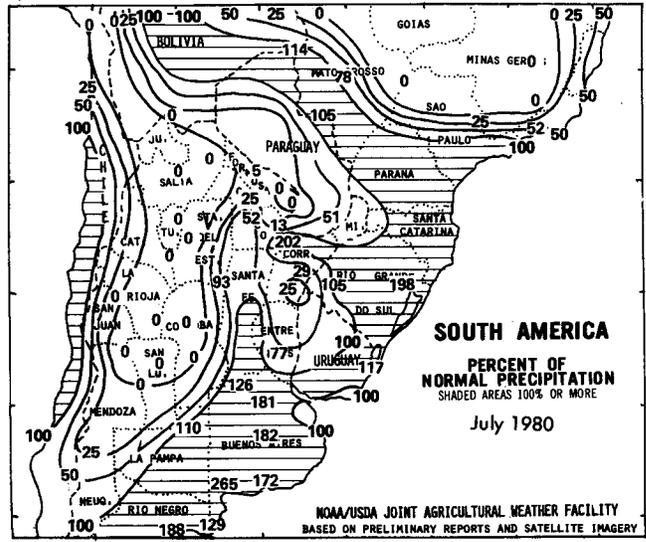
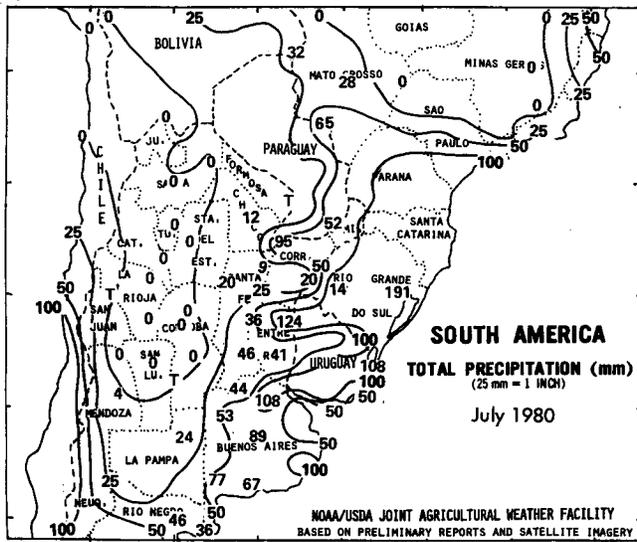
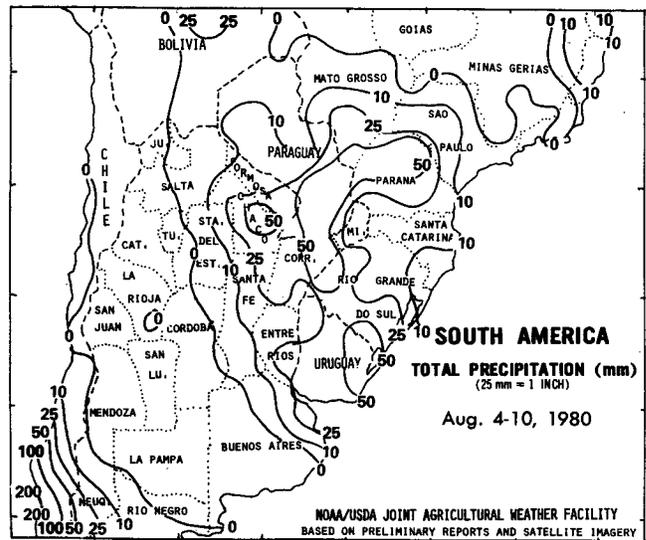
**AUSTRALIA.** The winter wheat crop was in a semi-dormant period during July with favorable moisture supplies in most crop areas. The notable exceptions were parts of Queensland and northern New South Wales where less than 75 percent of normal July rainfall was received. Soil moisture is in short supply in these areas and precipitation is needed for adequate development once the crop begins vigorous growth in the spring. Very little moisture was received this week in the major crop areas.



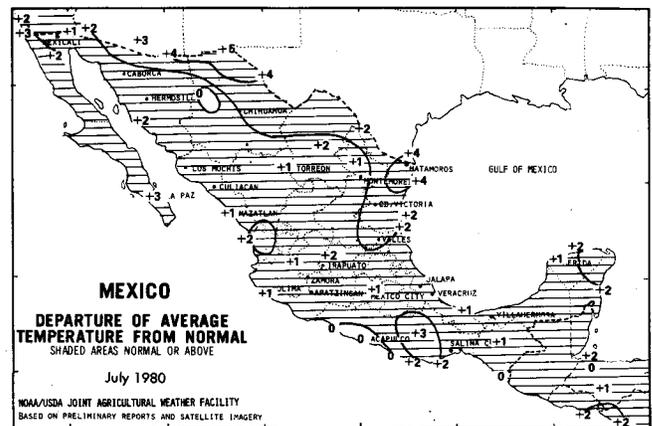
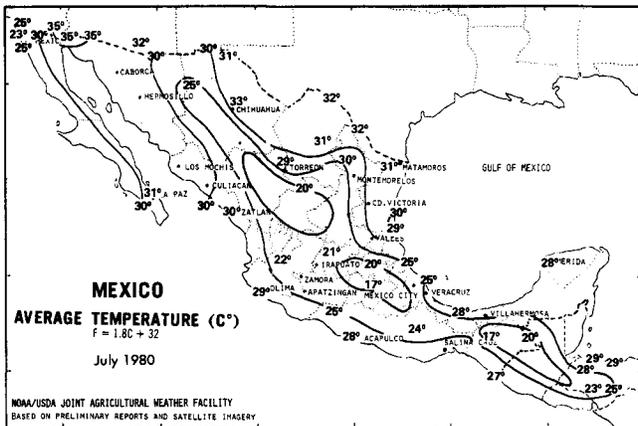
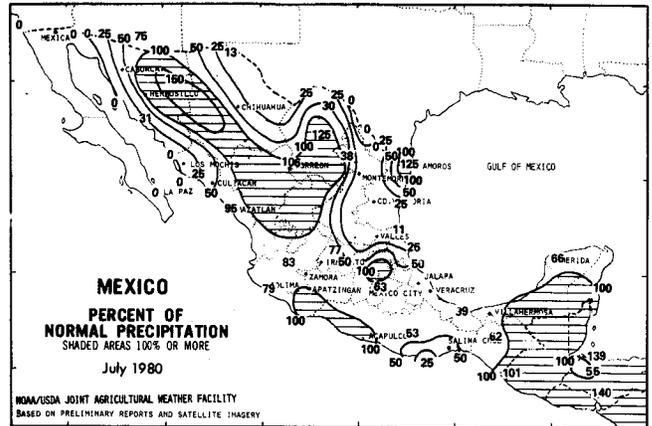
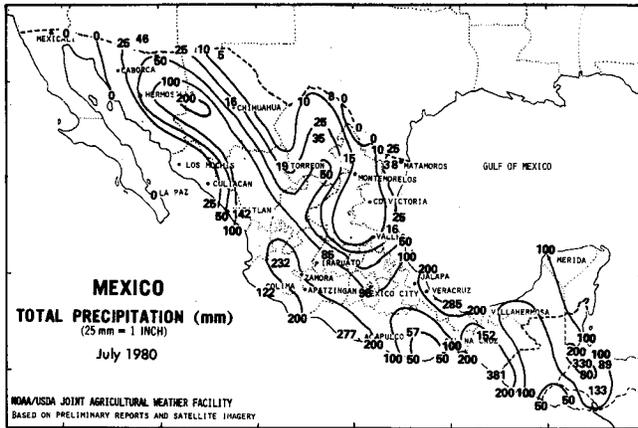
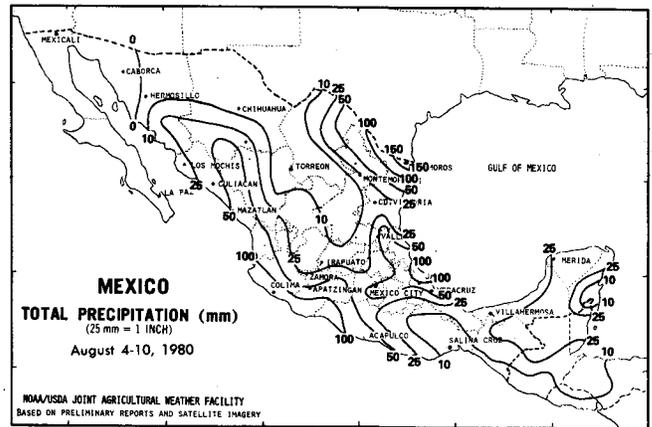
CANADA. Light rain fell this week in crop regions of Alberta Province where crops are maturing rapidly. Soil moisture reserves remain in adequate supply even though July monthly rainfall was slightly below average in most of Alberta. Weekly totals were higher in Saskatchewan and Manitoba improving prospects for late-seeded crops in the Canadian Prairies. Northern crop areas of Saskatchewan and western portions of Manitoba received near-normal rainfall during the month of July. However, the south central portion of Saskatchewan, a major wheat-producing region, received less than 50 percent of normal rainfall in July. Soil moisture reserves remain low, and crop development has been impeded by lack of sufficient moisture in this area. July monthly temperatures were generally favorable for crop development.



**SOUTH AMERICA.** Well-above-average monthly rainfall occurred in the winter wheat areas of both Argentina and Brazil in July. Soil moisture reserves were in good supply for the winter grains, which were in semidormancy. While no rain fell in Buenos Aires Province in Argentina this week, a frontal system further north produced locally heavy showers in Rio Grande do Sul State in Brazil. Mean monthly temperatures for July were slightly above average in northern Parana State providing favorable conditions for coffee trees.



**MEXICO.** Hurricane Allen triggered beneficial rains in the northeast this week after 2 months of unusual hot, dry weather which had strongly stressed citrus. About 25 mm fell at Montemorelos and Victoria. The Valles district had 50 to 75 mm, which should improve fruit prospects. Seasonal heavy rains in the northwestern mountain watersheds should increase water storage for fall and winter vegetables. Water supply dwindled to about 30 percent of the summer norm in northwestern reservoirs after a prolonged drought. Rainfall has been generally adequate for corn tasseling in the southern plateau; however, some of the northern fringe was dry.



**CROP PROGRESS**

FDR WEEK ENDING AUG 10, 1980

	CORN % SILKING		
	1980	1979	AVG.
COLD	83	82	NA
GA	100	27	27
ILL	100	93	96
IND	95	92	90
IOWA	100	100	99
KANS	NA	NA	NA
KY	95	80	85
MICH	88	86	92
MINN	99	88	94
MO	100	89	83
NEBR	100	90	94
N C	27	NA	NA
OHIO	NA	NA	NA
PA	66	63	60
S DAK	82	79	88
VA	90	NA	NA
WIS	95	75	80
17 STATES	NA	NA	NA
EXCL. STATES WITH NA	97	90	92

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

	CORN % DOUGH		
	1980	1979	AVG.
COLD	11	NA	NA
GA	94	NA	NA
ILL	74	50	65
IND	55	40	50
IOWA	40	22	37
KANS	50	45	55
KY	35	20	30
MICH	18	12	28
MINN	16	2	23
MO	68	39	55
NEBR	60	25	40
N C	84	NA	NA
OHIO	35	30	40
PA	12	12	17
S DAK	22	12	15
VA	55	NA	NA
WIS	35	5	15
17 STATES	47	NA	NA
EXCL. STATES WITH NA	45	26	39

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

	RICE % HARVESTED		
	1980	1979	AVG.
ARK	0	0	0
CALF	0	0	NA
LA	32	21	30
MISS	0	0	NA
TEX	93	51	59
5 STATES	23	13	NA
EXCL. STATES WITH NA	31	18	22

THESE 5 STATES PRODUCED 99% OF THE 1979 RICE CROP.

	SOYBEAN % BLOOMING		
	1980	1979	AVG.
ALA	74	71	72
ARK	53	NA	NA
GA	65	NA	NA
ILL	96	85	90
IND	97	90	NA
IOWA	98	100	98
KANS	NA	NA	NA
KY	80	58	66
LA	70	71	NA
MICH	80	86	88
MINN	99	94	97
MISS	81	84	78
MO	79	66	70
NEBR	97	NA	NA
N C	56	45	NA
OHIO	NA	NA	NA
S C	62	72	63
TENN	80	68	76
18 STATES	NA	NA	NA

EXCL. STATES WITH NA 88 83 84

THESE 18 STATES PRODUCED 94%

	SOYBEAN % SETTING PODS		
	1980	1979	AVG.
ALA	48	47	NA
ARK	20	NA	NA
GA	26	NA	NA
ILL	70	57	70
IND	60	45	55
IOWA	75	83	79
KANS	50	45	45
KY	40	25	30
LA	43	46	NA
MICH	40	32	44
MINN	84	44	68
MISS	46	42	39
MO	45	38	41
NEBR	80	70	80
N C	30	11	NA
OHIO	60	65	80
S C	18	31	28
TENN	33	26	28
18 STATES	54	NA	NA

EXCL. STATES WITH NA 60 52 59

THESE 18 STATES PRODUCED 94%

	SPRING WHEAT % HARVESTED		
	1980	1979	AVG.
IDA	8	14	10
MINN	46	2	33
MONT	20	0	15
N D	28	1	14
S DAK	97	26	67
5 STATES	40	5	26

THESE 5 STATES PRODUCED 92% OF THE 1979 SPRING WHEAT CROP.

2/ GREATER THAN 95%  
NA - NOT AVAILABLE

	COTTON % SETTING BULLS		
	1980	1979	AVG.
ALA	92	87	88
ARIZ	98	NA	NA
ARK	98	92	97
CALF	70	73	NA
GA	100	99	98
LA	99	96	95
MISS	95	92	90
MO	91	74	87
N MEX	95	65	90
N C	82	NA	NA
OKLA	50	35	50
S C	99	99	94
TENN	100	99	81
TEX	92	72	NA
14 STATES	89	NA	NA
EXCL. STATES WITH NA	89	82	85

THESE 14 STATES PRODUCED 99% OF THE 1979 COTTON CROP.

	WINTER WHEAT % HARVESTED		
	1980	1979	AVG.
CALF	99	100	NA
COLO	98	94	98
IDA	18	30	28
ILL	100	100	100
IND	100	100	100
KANS	100	100	100
MO	100	100	100
MONT	55	40	40
NEBR	100	98	100
OHIO	100	100	100
OKLA	100	100	100
OREG	64	86	NA
S DAK	100	80	96
TEX	100	100	100
WASH	45	74	NA
15 STATES	91	92	NA
EXCL. STATES WITH NA	95	94	94

THESE 15 STATES PRODUCED 90% OF THE 1979 WINTER WHEAT CROP.

	SORGHUM % HEADED		
	1980	1979	AVG.
COLO	51	50	NA
KANS	40	40	40
MO	67	61	67
NEBR	80	70	80
OKLA	60	40	65
S DAK	57	48	53
TEX	87	79	NA
7 STATES	66	60	NA
EXCL. STATES WITH NA	54	49	55

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

(continued from page 12)

ripe, 87% harvested. Barley mostly harvested. Oats good to fair, 19% headed, 24% ripe, 57% harvested. Corn good to fair. Hay good to fair, harvesting hampered by localized showers. Fruit fair, peaches 31% harvested, 77% of normal completion. Pastures good to fair. Potatoes good to fair. Gardens good to fair. Some problems with insects in gardens and livestock due to wet humid conditions.

**WISCONSIN:** Very wet, stormy week. Temperatures near normal. Highs mostly in 70's and 80's except for few 90's. Lows in 50's and 60's. Extremes: 92 and 49°. Frequent showers and thunderstorms, with heaviest rains 4th, 6th, and 7th. Amounts ranged from 3 to 6 in. all areas, but locally heavier totals up to 8.00 in. Some severe storms with damaging winds.

Fieldwork: 4.0 days suitable. Heavy rains about mid-week slowed harvesting of hay and combining of small grains. Oats 40% harvested, 1979 20%, normal 40%. Yields good but harvesting conditions deteriorating due to extensive lodging, soft fields, and weed growth. Second crop hay 75% harvested, 1979 65%, normal 55%. Poor drying weather for making hay. Third crop growth coming fast due to adequate moisture. Pastures improving and will provide good late summer grazing. Corn

crop excellent except where storm damaged or where moisture was short on light soils during July. Corn 35% in dough, 1979 5%, normal 15%. Enough moisture now to complete development of corn crop. Soybeans very good, pods forming and moisture sufficient for pod fill. Early tobacco being topped. Harvesting of early potatoes, sweet corn, and vegetable crops slowed by wet soils. Fruit set good for cranberries but excessive water in some bogs. Cherry harvest continuing. Wild berry crop excellent. Soil moisture now mostly adequate to surplus.

**WYOMING:** Temperatures below normal. Extremes 102° and 30°. Precipitation below normal.

Average 7.0 days suitable for fieldwork. Top-soil moisture short. Subsoil moisture short. Very little hail damage to crops thus far. Most winter wheat mature, 93% harvested. Spring wheat turning color 88%, mature 59%, harvested 50%. Barley turning color 90%; mature 68%; harvested 36%. Oats turning color 89%; mature 50%; harvested 33%. Row crops mostly good condition. Corn 71% tasseled, 50% silked. Dry beans 90% bloom, 56% setting pods. Most potatoes in bloom. Stock water mostly adequate except northeast. Some movement of livestock due to scarcity of grass.

#### CROP PRODUCTION HIGHLIGHTS

**ALL WHEAT** production is forecast at a record high 2.32 billion bushels, virtually unchanged from the July 1 forecast but 9 percent more than last year. The 90 percent confidence interval for this production forecast is 2.25 to 2.40 billion bushels. The winter wheat crop is now forecast at 1.87 billion bushels, up 1 percent from the July 1 forecast. The durum wheat production forecast is up 11 percent while other spring wheat is down 6 percent from a month earlier.

**FOOD GRAIN** production (wheat, rye and rice) is expected to total 70.3 million metric tons in 1980, up 8 percent 1979.

**CORN** production is forecast at 6.65 billion bushels, 9 percent less than the July 1 forecast and 14 percent below last year's record crop. The 90 percent confidence interval for this production is 5.90 to 7.39 billion bushels.

**SORGHUM GRAIN** production is forecast at 553 million bushels, down 32 percent from last year's production.

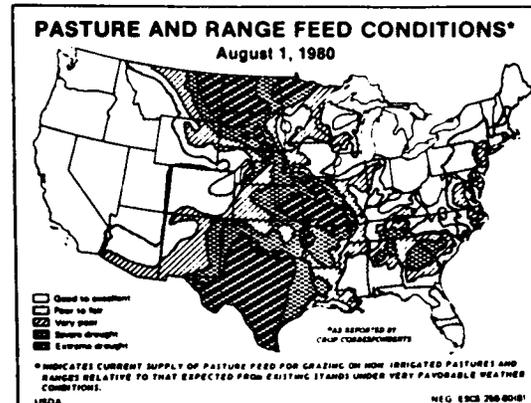
**FEED GRAIN** production (corn, sorghum, oats and barley combined) is expected to total 197 million metric tons, down 16 percent from last year's record high 234 million metric tons.

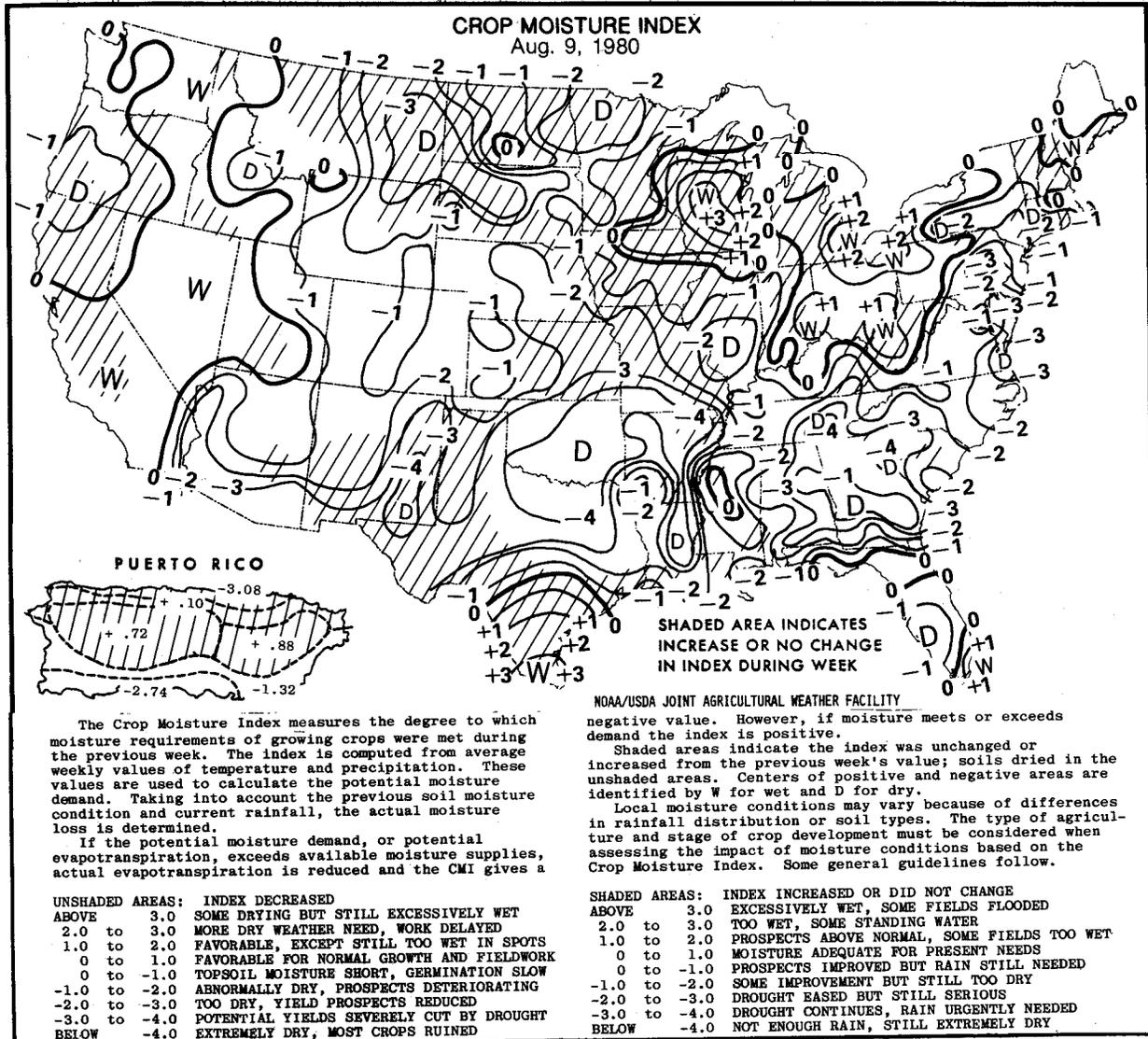
**SOYBEAN** production is forecast at 1.88 billion bushels, 17 percent smaller than the 1979 crop. The 90 percent confidence interval for this production is 1.72 to 2.04 billion bushels.

**HAY** production is forecast at 124 million tons, down 15 percent from the record high crop of 1979. Pasture and range condition on August 1 averaged 60 percent, 24 points below a year ago.

**ALL COTTON** production is forecast at 12.8 million bales, 12 percent less than 1979. The 90 percent confidence interval for this production is 11.0 to 14.6 million bales.

**PASTURE AND RANGE FEED:** Pasture and range feed condition on August 1 averaged 60 percent for the 48 contiguous States. This is 24 points less than a year ago, 16 points below the 1969-78 average for this date, and the lowest August 1 condition since records began in 1961. During July, conditions deteriorated in all States except Florida and North Carolina. On August 1, pastures and ranges were in a severe or extreme drought situation in Texas, Arkansas, Missouri, and throughout most of the Northern and Central Plains States as a result of the below normal rainfall and high temperatures. Supplemental feeding continued to be necessary in most of these States.





MODERATE TO HEAVY RAIN IN THE EASTERN PORTION OF THE CENTRAL PLAINS HAS BROUGHT SOME RELIEF TO THE DROUGHT CONDITIONS IN EASTERN KANSAS AND WESTERN MISSOURI. HOWEVER, SOUTHERN ILLINOIS HAS GOTTEN DRIER. EXCESSIVE HEAT IN THE SOUTH AND ALONG THE EAST COAST HAS CAUSED A LARGE MOISTURE DEMAND. THE MOISTURE, SUPPLIED BY WIDELY SCATTERED SHOWERS IN THOSE AREAS, HAS HELPED LITTLE, SO DRY CONDITIONS HAVE WORSENED. HURRICANE ALLEN'S MOVE INTO SOUTHERN TEXAS EMBEDDED DROUGHT IN SOME AREAS AND HELPED THE DRYNESS IN OTHERS.

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# IMMEDIATE - U. S. Weather Report

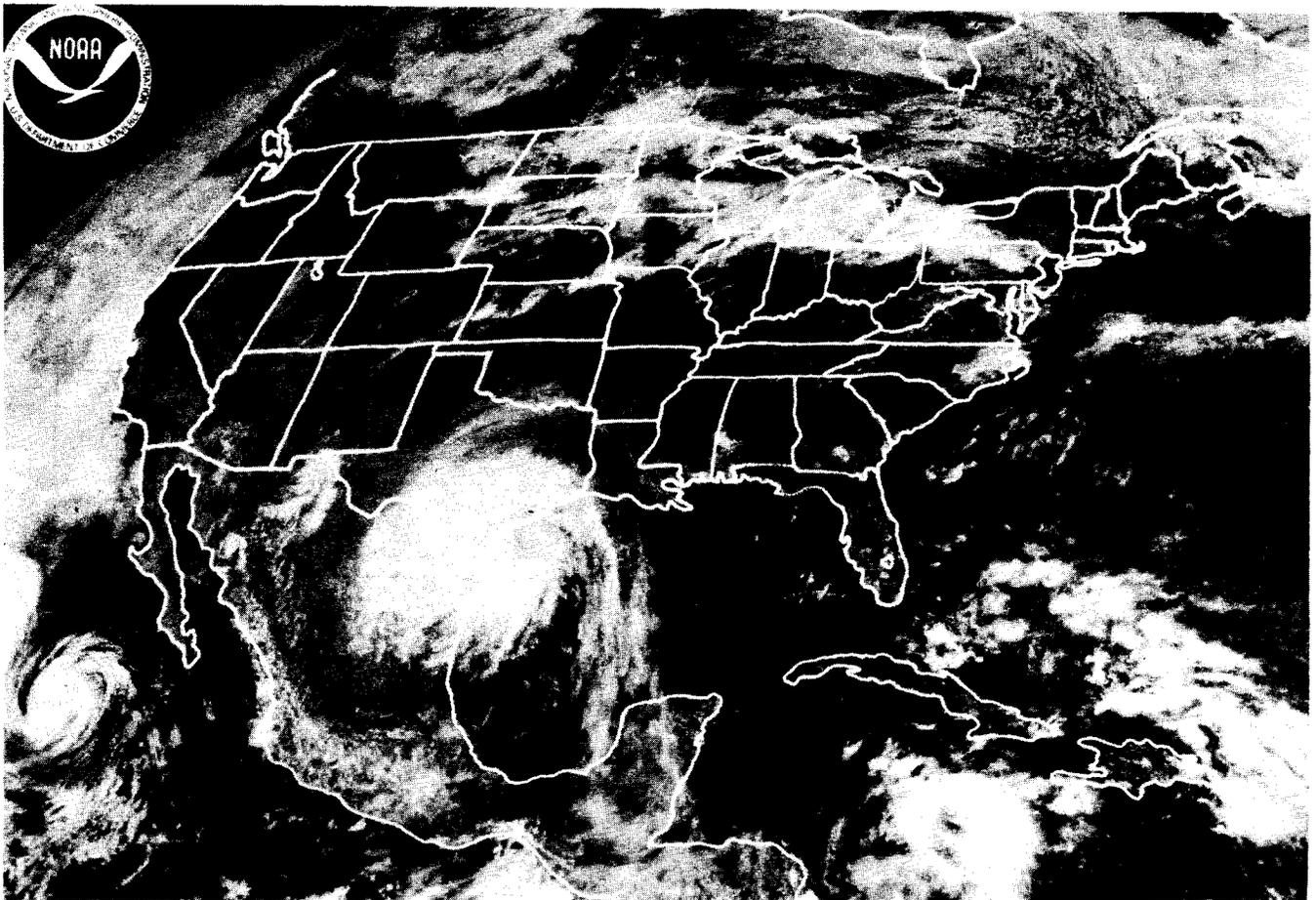
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## FIRST CLASS MAIL



Satellite photo, taken at noon CDT Sunday,  
shows the swirling bands of rain clouds  
around Hurricane Allen over South Texas.