

# WEEKLY WEATHER AND CROP BULLETIN

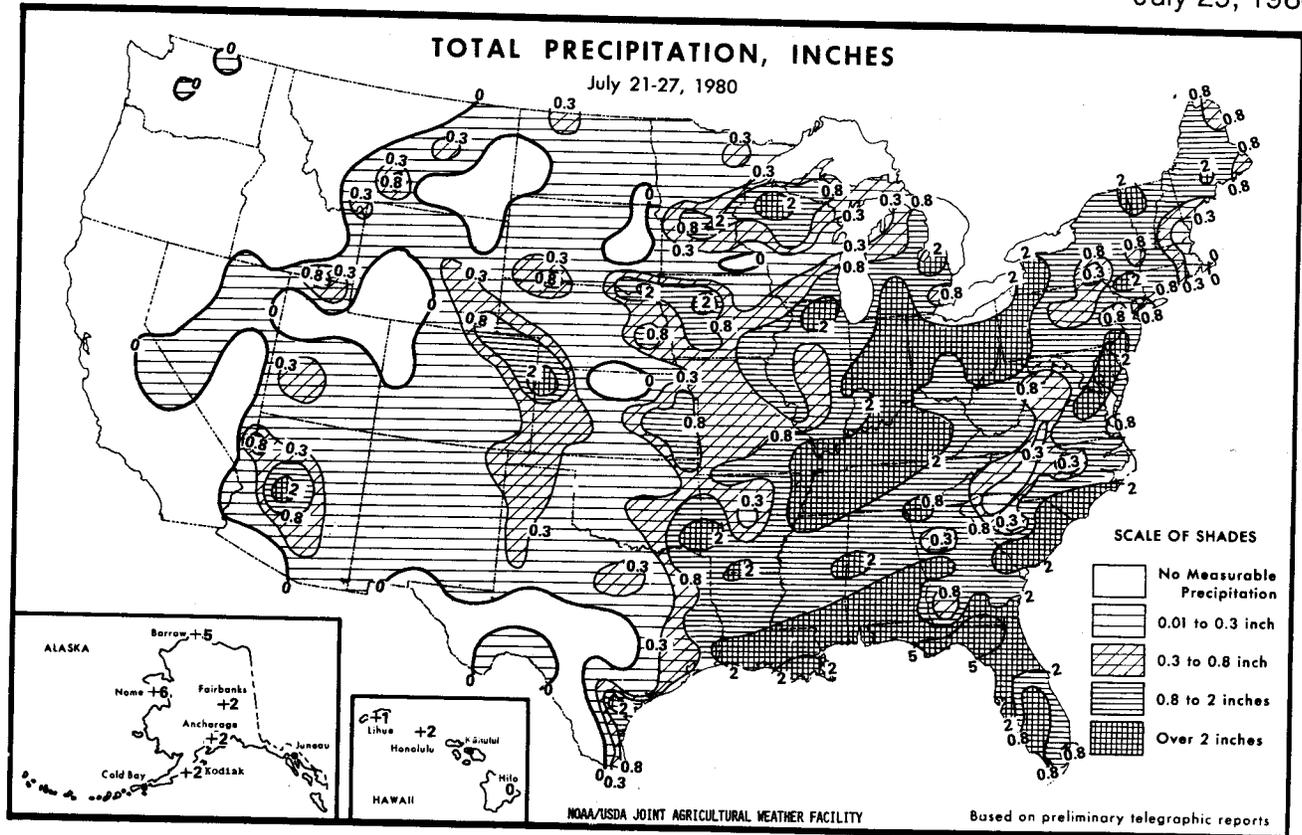
U.S. DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration,  
National Weather Service

U.S. DEPARTMENT OF AGRICULTURE  
Economics, Statistics, and Cooperatives Service  
World Food and Agricultural Outlook and Situation Board

Volume 67, No. 31

Washington, D.C.

July 29, 1980



## National Weather Summary

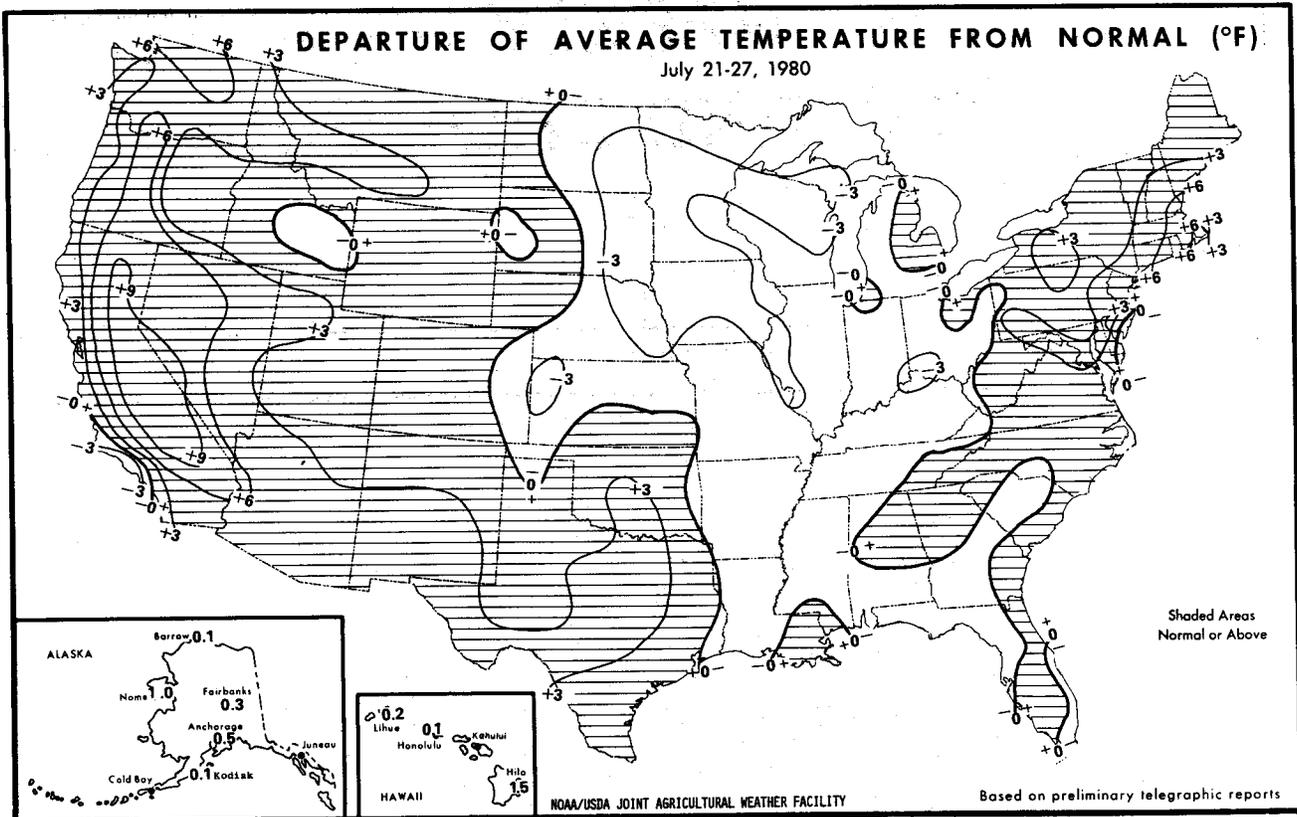
July 21 - 27

**HIGHLIGHTS:** The pattern of hot weather east of the Rockies began to change at the beginning of the week as cooler weather moved southward and eastward through the Plains. Hot weather continued in Texas; Dallas notched its 35th consecutive day of at least 100°. The warm weather moved westward with temperatures well above normal west of the Plateau. California's San Joaquin Valley exceeded 100° on most days. The Pacific Northwest and the West Coast had little or no rain, but showers and thunderstorms occurred in most of the rest of the Nation. Excessive amounts of rain accumulated in the Gulf Coast States and as far north as southern Indiana.

**MONDAY...** A cold front continued to push across the Nation's midsection bringing a welcome relief

from the recent extreme heat. High temperatures persisted in the East and parts of the South. An area from Richmond, Va., to southern Connecticut reached 100° or higher. Atlanta had its 22nd consecutive day of 90°-plus temperatures. Central Texas and eastern Oklahoma remained hot with temperatures over 100°. The West had 100° readings as far north as Washington State. Ahead of the cold front, showers and thunderstorms extended from the eastern portion of the southern Plains through New England and the mid-Atlantic States. In the South, Mississippi and Alabama received some heavy showers. Local flooding occurred in north central Mississippi.

**TUESDAY...** The cold front extended from New England to the eastern Great Lakes and the lower Rio Grande. Much cooler weather prevailed in the



Appalachian Mountains. However, 100° temperatures persisted in central and southern Texas. High temperatures continued to prevail in the West. Showers and thunderstorms were widespread along and ahead of the front. Flooding occurred from parts of western Pennsylvania to northern Mississippi. Since the rains began, 5 to 7 inches have doused the Memphis area. Heavy rain continued in much of Mississippi and Alabama. Only light, widely scattered showers fell in southern Texas.

**WEDNESDAY...**Light showers dotted an area from Wyoming through Nebraska and into the Oklahoma and Texas Panhandles. Rainshowers and thunderstorms continued in the East extending from the lower Mississippi Valley across the eastern Gulf States and the Atlantic Coastal States from Florida through New England. Heavy downpours were isolated but some did fall, especially in South Carolina and along the eastern Gulf Coast. Temperatures of 100° or higher still hovered over central Texas and the midnineties extended northward through the western Plains.

**THURSDAY...**The cold front moved through the eastern United States with the southern portion of the front weakening in the Southeast. Some thunderstorms and showers continued from South Carolina to southern Mississippi and southward through Florida. The heavier rain fell in northern Georgia, but some deluges occurred in the Florida Panhandle. Another cold front pushed into the northern Plains. Showers and thunderstorms fell heavily in northern Wisconsin but were only light and scattered southeastward to the central Rockies. One-hundred-degree temperatures stayed in central Texas and the high nineties prevailed in the north central Plains.

**FRIDAY...**The cold front from the northern Plains produced widespread showers and thunderstorms from southern Wisconsin to eastern Kansas. More isolated storms extended into the central and north-

ern Rockies and into the Texas Panhandle. The southern Plateau experienced some isolated heavy thunderstorms. Showers and thunderstorms were associated with an unstable area along the southeast Coast and in parts of Mississippi. Temperatures moderated in the northern Plains, but hot weather extended from central Texas into eastern Kansas and parts of Missouri.

**SATURDAY...**The cold front extended from New England to northwestern Texas. Showers and some thunderstorms occurred along and ahead of the front. Some moderate precipitation fell in Michigan, parts of Illinois, southeastern Missouri, and western Arkansas. Thunderstorms caused light but widespread showers in the dry Texas Panhandle. Thunderstorms continued in the Southeast but were concentrated in northern Georgia. The hot weather continued through central Texas and into Oklahoma. Dallas, with 101°, marked its 34th consecutive day with temperatures over 100°. In contrast, record-low minimum temperatures were recorded in the northern Plains.

**SUNDAY...**The frontal system slowed and extended in a wavy pattern from New England to southern Illinois and into northeastern Texas. Thunderstorms or showers occurred from northeastern Texas to Michigan, western New York, and New England. The activity extended well ahead of the front into the Ohio Valley, to the Appalachians, and southward. Severe weather hit the Dallas area and dumped about three-quarters inch of welcome rain. The temperature at Dallas reached 101° again before the thunderstorm moved through and dropped the temperature 25 degrees in less than an hour. Hot weather reached northward in the afternoon and pushed temperatures to the midnineties in much of the Plains. The high temperatures continued in the West. Readings exceeded 100° through all but Coastal California and into parts of Oregon.

## National Agricultural Summary

July 21 - 27

**HIGHLIGHTS:** Below-normal temperatures and beneficial rains boosted crop conditions throughout the Corn Belt. However, above-normal temperatures with very little rainfall in much of the West and southern Plains put further stress on crops and livestock. Farmers had almost a full week available for fieldwork in the West, while Corn Belt growers had 5 to 6 days. Elsewhere, rains generally limited fieldwork to 3 to 5 days. Pastures generally rated poor to fair with a few areas reporting good conditions. Recent rains should promote growth. Supplemental feeding and herd reduction continued in many areas. Winter wheat harvest advanced to 85%. Sorghum heading reached 40%, and rice heading moved to 37%. Cotton was 94% squared, and 51% of the crop had set bolls. Corn silking was well-advanced, with some fields approaching the dough stage. Soybean blooming reached 61%, and fields in nearly all areas were setting pods. Fruit harvests moved northward into New England. Southern vegetable growers prepared land for planting as harvests declined. In northern areas, vegetable growers harvested increasing supplies of summer crops.

**CORN:** Corn rated fair to good throughout most of the Corn Belt, but in south central and South Atlantic regions the crop only rated poor to fair. Silking was well-advanced in major production areas, ranging from 30% in Michigan to over 95% in Georgia. In the Corn Belt, some fields were approaching the dough stage of development, while in southern areas the crop advanced to the dent stage. Harvest was underway in the extreme South. In the Southeast, the rain was too late for most corn, and many fields were harvested for silage rather than grain.

**SOYBEANS:** Soybeans showed fair to good condition in all major areas except Arkansas, Georgia and Missouri where the crop rated poor to fair. Blooming was widespread and reached 61% in the 18 major producing States. Fields in nearly all areas were setting pods. Progress ranged from 2% in Michigan and 5% in Kansas to 35% in Illinois and 42% in Iowa. In the southern Plains, development was slow with uneven pod filling as a result of the drought conditions that exist.

**SMALL GRAINS:** Winter wheat combining in the 15 major producing States reached 85% complete, compared with 81% a year earlier. Harvesting was complete in Indiana, Kansas, Missouri, Oklahoma and Texas.

Spring wheat heading neared completion. Harvest gained momentum in major producing areas. Combining reached 5% in Montana, 14% in North Dakota, and 44% in South Dakota. Harvests got underway much earlier than normal due to the extreme heat prematurely advancing the ripening of small grains.

**COTTON:** Cotton squaring reached 94%, and 35% of the crop had set bolls. Progress of boll set ranged from 10% in Oklahoma to 98% in Georgia. Harvest hit full swing in southern Texas. In many areas, cotton continued to suffer as dry, hot conditions prevailed. Fields were developing rapidly with some squares and early bolls dropping off.

**OTHER CROPS:** Grain sorghum heading advanced northward into Nebraska and reached 40% complete in the seven major producing States, compared with 32% last year. Harvest picked up momentum in Texas with 48% harvested, well ahead of last year's 29%. Development was hampered by the hot, dry conditions. Some fields in Texas are being baled and grazed out because of poor grain prospects.

Rice heading reached 37% in the five major States. Heading was most advanced in Louisiana with 70% and Texas with 100%. Harvest was underway in Louisiana where 10% of the crop was out of the fields and in Texas, where 25% has been harvested.

Tobacco harvesting reached 44% in Georgia, 20% in South Carolina, 18% in North Carolina, and 3% in Virginia. Topping was active in Kentucky and Tennessee. The extreme heat has reduced problems with blue mold.

Potato growth in Idaho advanced rapidly with the average height of plants reaching 12 inches. In Maine, farmers have completed hilling and cultivating. Early potatoes were harvested in southern New England.

**FRUITS AND NUTS:** Fruit harvests moved northward and became active in New England where early peaches were picked. The sweet cherry harvest neared completion in northern production areas, and the tart cherry harvest began.

A heavy volume of nectarines and peaches were picked in California. The Bartlett pear harvest started. Navel oranges sized well with a large set. Grapes, figs, and dates were also harvested.

Florida citrus groves benefited from several days of scattered rainfall and cooler temperatures.

Arizona citrus groves rated good with new-crop fruit sizing well. The grape harvest wound down to completion.

**VEGETABLES:** Increasing supplies of summer crops were harvested by northern growers. In southern areas, growers prepared land for planting as harvests seasonally declined.

In Florida, a limited supply of summer vegetable and watermelons continued to move through local markets.

California growers harvested a wide variety of vegetables including artichokes, broccoli, cauliflower, carrots, celery, sweet corn, lettuce, onions, potatoes, and tomatoes.

Texas prospects continued to deteriorate, with the quality and maturity hurt by the heat wave. Land preparation for fall planting was underway in southern areas.

**PASTURES AND LIVESTOCK:** Pastures generally rated poor to fair except in areas of the West, the South Atlantic region, and parts of the Corn Belt where conditions rated fair to good. Poor conditions were reported in much of the Great Plains and Southwest, where supplemental feeding was still necessary. Pastures have turned brown, and new growth is nonexistent. Hay supplies are short, and herd reduction continues. Stock water supplies are short in many areas.

Weather Data for the Week Ending July 27, 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		PRECIPITATION	
														90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	89	72	93	71	81	0	1.7	.5	.8	5.2	61	90	55	5	0	4	1
MOBILE	87	73	92	71	80	-2	2.5	.5	1.2	8.2	59	95	62	3	0	4	3
AK ANCHORAGE	88	73	91	72	81	0	2.2	1.1	1.1	5.8	68	92	58	2	0	4	2
BARROW	66	54	74	49	60	2	.5	0	.5	4.4	152	81	64	0	0	1	0
FAIRBANKS	42	33	54	28	44	5	.1	.1	.1	1.1	100	85	65	2	2	2	0
KODIAK	64	53	81	51	63	2	.3	.1	.1	2.0	62	74	51	0	0	3	0
NOME	74	51	71	46	57	2	.1	.7	.1	1.4	19	95	72	0	0	1	0
AZ FLAGS STAFF	63	50	70	49	57	6	1.0	.3	.8	5.1	170	74	67	0	0	4	0
PHOENIX	86	55	90	54	70	4	1.1	.5	.3	2.3	88	81	32	2	7	4	0
TUCSON	110	85	112	80	97	5	.5	.3	.2	.5	71	50	18	7	7	0	0
WINSLow	103	78	107	75	91	2	.2	.4	.1	1.5	68	53	21	6	6	1	0
YUMA	96	67	98	64	81	2	.2	.3	.1	1.8	150	50	50	7	7	0	0
AR FORT SMITH	112	86	115	82	99	4	0	.1	.1	0	0	50	50	6	6	0	1
LITTLE ROCK	95	68	97	61	81	-1	1.2	.5	1.0	4.6	70	87	33	7	7	2	0
CA BAKERSFIELD	93	69	97	66	81	-1	.3	.5	.3	1.0	15	86	40	6	6	0	0
EUREKA	107	79	112	73	93	8	0	0	0	0	0	21	6	0	0	0	0
FRESNO	63	53	67	50	58	1	0	0	0	.5	62	99	72	0	0	0	0
LOS ANGELES	108	74	111	70	91	10	0	0	0	0	0	52	19	7	0	0	0
RED BLUFF	71	61	73	59	66	-8	0	0	0	0	0	95	68	0	0	0	0
SAN DIEGO	109	70	112	66	90	7	0	0	0	1.2	240	95	15	6	6	0	0
SAN FRANCISCO	76	68	79	66	72	1	0	0	0	0	0	88	68	0	0	0	0
STOCKTON	74	54	81	51	64	9	0	0	0	.5	500	69	19	6	0	0	0
CO DENVER	106	66	111	60	86	0	.1	.3	.1	3.0	88	71	25	4	0	2	0
GRAND JUNCTION	88	60	94	54	74	0	.1	.3	.1	1.0	125	42	14	7	0	0	0
PUEBLO	97	65	99	62	81	2	.1	.4	.9	1.2	40	74	25	5	0	2	0
CT BRIDGEPORT	92	62	95	58	77	0	.1	.4	.9	4.7	87	82	51	1	0	3	1
HARTFORD	88	71	97	67	79	4	1.2	.4	.4	4.7	87	82	51	2	0	3	0
DC WASHINGTON	89	65	98	59	77	4	1.1	.3	.4	5.8	91	93	44	2	0	3	1
FL APALACHICOLA	91	75	100	70	83	4	1.5	.5	1.4	5.4	79	85	48	5	0	6	1
DAYTONA BEACH	85	74	88	70	80	-1	5.5	3.6	4.4	11.4	93	95	71	0	0	4	2
FORT MYERS	90	74	94	72	82	1	2.9	1.4	1.2	10.0	81	91	54	3	0	4	0
JACKSONVILLE	92	76	95	74	85	2	.6	1.3	.3	8.8	53	98	62	6	0	4	2
KEY WEST	88	74	94	71	81	0	4.1	2.4	2.6	9.8	79	93	63	5	0	4	0
MIAMI	89	80	91	76	85	0	.6	.3	.3	9.2	112	82	63	4	0	2	0
ORLANDO	88	76	92	73	82	-1	.7	.7	.3	12.0	81	93	66	1	0	3	0
TALLAHASSEE	91	73	93	72	82	0	1.6	.2	.9	9.7	68	98	57	6	0	4	3
TAMPA	109	76	91	74	82	0	7.7	5.7	3.3	15.7	109	97	63	4	0	4	1
WEST PALM BEACH	88	73	92	71	80	-1	2.9	1.0	2.1	9.4	68	91	59	3	0	4	1
GA ATLANTA	89	76	91	74	82	0	1.7	.4	.6	11.2	82	90	55	3	0	5	2
AUGUSTA	90	74	93	71	82	4	.2	.9	.1	5.2	65	96	52	6	0	3	0
MACON	91	73	93	71	82	4	.2	.9	.1	5.2	65	96	52	6	0	3	0
SAVANNAH	92	70	97	68	81	0	1.6	.4	1.0	6.5	79	98	48	5	0	2	2
HI HILO	92	72	96	70	82	0	2.8	1.8	2.2	6.2	79	98	55	4	0	2	2
HONOLULU	90	73	94	71	81	0	1.7	.9	.9	5.9	47	96	57	4	0	2	0
KAHULUI	--	--	--	--	76	0	1.5	.9	--	--	--	--	--	--	--	--	--
LIHUE	88	75	89	73	82	--	.1	0	T	1.1	138	80	50	0	0	3	0
IL BOISE	--	--	--	--	80	--	.2	.3	--	--	--	--	--	--	--	--	--
LEWISTON	96	58	106	51	77	1	.2	.0	--	.3	23	53	16	7	0	0	0
POCATELLO	98	64	107	60	81	6	0	.1	0	1.9	79	61	19	6	0	0	0
CAIRO	92	52	96	46	72	-1	0	.1	0	1.5	94	67	16	7	0	0	0
CHICAGO	89	71	94	67	80	-1	4.9	4.2	1.4	10.3	145	--	--	3	0	3	2
MOLINE	81	63	89	57	72	0	.8	.1	.5	6.2	82	89	58	0	0	2	0
PEORIA	82	63	89	60	73	-2	.9	.1	.9	7.5	88	88	53	0	0	3	1
ROCKFORD	82	64	91	60	73	-3	.6	.2	.5	8.3	119	92	60	1	0	2	1
SPRINGFIELD	80	64	85	58	71	-2	2.4	1.5	1.4	9.0	108	92	55	0	0	4	2
EVANSVILLE	83	66	91	61	75	-2	.5	.3	.4	2.8	37	35	57	1	0	2	0
FORT WAYNE	87	66	93	61	77	-2	1.3	.5	.7	10.5	157	88	50	2	0	3	2
INDIANAPOLIS	80	63	84	58	71	-2	2.4	1.6	1.0	5.6	79	90	62	0	0	3	1
SOUTH BEND	83	63	87	58	73	-2	2.3	1.5	1.5	6.6	89	93	53	0	0	3	2
BURLINGTON	83	65	89	58	74	1	1.1	.3	.8	5.5	81	90	51	0	0	3	1
DES MOINES	81	64	91	61	73	-3	1.0	.2	1.0	10.5	133	--	--	1	0	2	1
DUBUQUE	84	62	91	57	73	-3	.8	.2	.6	6.4	83	82	42	1	0	2	0
SIoux CITY	81	64	88	60	72	0	.5	.4	.4	7.1	79	86	41	0	0	2	0
CONCORDIA	85	58	95	53	72	-4	.4	.3	.4	1.7	23	91	41	1	0	1	0
DODGE CITY	92	64	99	56	78	-1	T	.7	T	1.9	24	75	28	5	0	0	0
GOODLAND	93	67	98	65	80	0	.5	.2	.6	5.4	90	81	36	7	0	1	1
TOPEKA	87	61	93	58	74	-3	4.2	3.6	2.1	9.2	177	82	36	3	0	3	3
WICHITA	90	63	94	55	76	-3	5	.3	.3	1.4	15	84	38	5	0	2	0
LEXINGTON	95	69	101	60	82	1	.3	.6	.3	1.8	21	76	31	7	0	2	0
LOUISVILLE	85	67	93	61	76	0	2.5	1.4	1.3	7.5	88	89	54	1	0	3	2
LOUISVILLE	86	68	97	64	77	-1	2.8	2.0	1.4	9.1	126	87	51	3	0	3	2

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

Weather Data for the Week Ending July 27, 1980

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION					RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE June 2	PCT. NORMAL SINCE June 2	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE °F		PRECIPITATION	
														90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
LA BATON ROUGE	89	74	91	73	81	-1	3.5	2.0	2.2	10.8	115	99	66	3	0	5	3
LA LAKE CHARLES	90	75	93	73	82	-1	3.3	1.8	2.0	5.3	50	92	59	4	0	4	2
LA NEW ORLEANS	91	77	93	75	84	-2	1.4	- .1	- .9	8.5	81	94	62	5	0	5	1
LA SHREVEPORT	97	71	100	69	84	0	1.5	- .9	1.4	4.1	72	90	38	7	0	5	1
ME CARIBOU	77	58	86	52	67	2	.4	- .5	.2	7.0	103	93	61	0	0	4	0
ME PORTLAND	85	62	90	58	74	5	.4	- .2	.2	4.6	87	96	69	1	0	4	0
MD BALTIMORE	89	69	101	63	79	2	1.6	- .7	1.3	6.2	87	86	36	3	0	2	0
MA BOSTON	90	71	99	68	81	7	.1	- .5	T	4.0	73	74	41	5	0	2	1
MA CHATHAM	79	66	83	59	73	3	0	- .6	0	3.7	67	96	68	0	0	3	0
MI ALPENA	76	60	83	52	68	2	1.0	- .4	.9	5.4	106	93	49	0	0	3	1
MI DETROIT	83	63	85	55	73	0	.7	0	.6	9.0	150	93	49	0	0	3	1
MI FLINT	77	62	83	56	70	0	1.9	1.2	1.0	7.6	129	93	62	0	0	4	2
MI GRAND RAPIDS	78	64	84	59	71	-1	2.5	1.9	1.0	9.2	153	96	65	0	0	3	3
MI HOUGHTON LAKE	75	57	79	45	66	-1	.3	- .3	.3	4.6	75	76	65	0	0	1	0
MI LANSING	80	63	86	54	71	0	1.8	1.2	0	4.3	75	70	63	0	1	4	2
MI MARQUETTE	75	50	82	39	62	-4	.7	- .4	.4	5.6	93	94	49	0	0	3	0
MI MUSKOGON	77	61	81	51	69	-2	1.0	- .1	.8	7.9	165	95	55	0	0	2	1
MI SAULT STE. MARIE	76	51	81	43	63	-2	.3	- .3	.3	5.6	100	85	52	0	0	2	0
MN DULUTH	76	55	82	42	65	-2	.1	- .7	.1	5.3	70	86	49	0	0	1	0
MN INT'L FALLS	78	53	87	41	65	-1	.2	- .7	.2	3.7	51	82	41	0	0	3	0
MN MINNEAPOLIS	82	59	92	55	71	-2	.7	- .1	.6	6.9	97	84	36	1	0	2	1
MN ROCHESTER	80	55	86	49	68	-3	T	- .8	T	4.4	56	93	51	0	0	0	0
MN SAINT CLOUD	82	53	93	47	68	-3	.2	- .5	.1	5.7	79	94	--	1	0	2	0
MS JACKSON	90	74	94	72	82	0	1.2	- .2	.7	4.7	66	95	60	4	0	3	1
MS MERIDIAN	91	72	92	71	81	0	1.6	- .4	1.1	6.9	84	98	59	5	0	4	1
MO COLUMBIA	92	65	99	61	78	0	.4	- .4	.2	1.8	23	79	34	4	0	2	0
MO KANSAS CITY	87	66	94	60	77	-2	.4	- .5	.3	4.3	46	84	42	2	0	2	0
MO SAINT LOUIS	85	67	92	63	76	-3	1.3	- .5	1.2	6.2	81	90	49	2	0	3	1
MO SPRINGFIELD	88	66	94	61	77	-1	.7	0	.6	4.3	55	77	39	2	0	2	1
MT BILLINGS	94	62	101	56	78	5	T	- .1	T	2.0	63	42	16	5	0	0	0
MT GLASGOW	90	58	99	51	74	2	T	- .3	T	2.9	72	56	25	3	0	1	0
MT GREAT FALLS	89	57	98	52	73	2	T	- .2	T	4.2	100	57	20	4	0	0	0
MT HAVRE	91	55	99	49	73	2	T	- .2	T	3.3	87	61	21	4	0	0	0
MT HELENA	88	55	94	51	72	3	0	- .1	0	5.0	152	66	23	2	0	0	0
MT KALISPELL	87	50	90	47	68	3	0	- .2	0	3.5	103	97	32	2	0	0	0
MT MILES CITY	95	62	109	54	79	3	T	- .3	T	3.8	81	58	17	5	0	0	0
MT MISSOULA	90	53	97	49	71	3	0	0	0	3.4	56	84	27	3	0	0	0
NE GRAND ISLAND	88	61	97	56	75	-2	T	0	T	4.2	191	88	39	2	0	1	0
NE LINCOLN	89	62	98	55	75	-3	.5	- .1	.5	4.3	55	93	42	4	0	1	0
NE NORFOLK	85	59	95	53	72	-4	.3	- .3	.2	4.8	62	86	39	1	0	3	0
NE NORTH PLATTE	90	60	96	53	75	0	T	- .6	T	2.3	37	78	33	4	0	1	0
NE OMAHA	83	62	92	56	72	-3	.3	- .5	.3	9.5	116	87	53	1	0	1	0
NE VALENTINE	90	59	99	52	74	-1	.1	- .4	T	3.1	53	67	22	4	0	2	0
NV ELY	94	52	96	47	73	4	T	- .1	T	1.4	108	48	14	7	0	0	0
NV LAS VEGAS	110	83	113	79	97	6	T	- .1	T	.5	100	32	14	7	0	0	0
NV RENO	103	54	104	51	78	8	0	- .1	0	.6	75	62	10	7	0	0	0
NV WINNEMUCCA	103	56	105	52	79	7	0	0	0	.5	38	34	8	7	0	0	0
NH CONCORD	86	59	94	47	73	3	.2	- .5	.1	3.8	62	92	41	2	0	2	0
NJ ATLANTIC CITY	84	63	94	56	74	-2	1.4	- .3	1.3	5.8	82	95	54	2	0	2	1
NJ TRENTON	89	70	100	64	80	4	1.0	- .1	1.0	3.7	51	--	--	3	0	2	1
NM ALBUQUERQUE	97	67	102	62	82	3	.1	- .3	.1	.1	6	55	17	7	0	1	0
NM ROSWELL	96	71	101	67	84	5	T	- .4	T	.3	11	--	--	7	0	1	0
NY ALBANY	85	62	94	53	74	1	.4	- .3	.2	7.3	130	92	47	1	0	2	0
NY BINGHAMTON	84	62	89	57	73	3	.2	- .7	.2	7.1	108	89	49	0	0	3	0
NY BUFFALO	81	65	89	59	73	3	2.0	1.3	1.3	8.5	181	89	56	0	0	3	2
NY NEW YORK	89	74	99	70	82	5	.6	- .3	.4	4.7	77	71	47	3	0	3	0
NY ROCHESTER	84	65	94	58	74	3	1.2	- .5	1.1	8.2	167	93	59	1	0	2	1
NY SYRACUSE	84	63	93	55	74	2	1.0	- .3	.6	5.4	95	89	55	1	0	3	1
NC ASHEVILLE	85	67	90	64	76	2	.6	- .5	.5	6.2	77	95	58	1	0	2	1
NC CHARLOTTE	87	70	90	68	79	0	.2	- .8	.1	4.9	64	98	57	1	0	2	0
NC GREENSBORO	87	69	92	64	78	0	.6	- .4	.3	5.8	75	94	54	2	0	2	0
NC HATTERAS	87	72	89	64	79	1	1.4	0	1.4	8.3	85	93	62	0	0	1	1
NC RALEIGH	87	69	92	63	78	0	.2	- 1.0	.2	7.1	89	--	--	59	2	1	0
NC WILMINGTON	89	74	94	71	82	1	3.1	1.2	1.4	7.4	58	92	58	3	0	5	2
ND BISMARCK	85	57	95	52	71	-1	.3	- .1	.2	4.8	87	86	32	1	0	3	0
ND FARGO	81	55	89	46	68	-3	T	- .7	T	3.2	53	80	35	0	0	1	0
ND WILLISTON	90	56	107	42	73	2	T	- .4	T	2.4	48	76	24	3	0	1	0
OH AKRON-CANTON	82	63	92	58	72	0	2.1	1.3	.8	8.7	130	94	52	1	0	3	3
OH CINCINNATI	82	65	93	60	74	-2	1.4	- .5	.8	9.2	124	95	55	1	0	3	1
OH CLEVELAND	82	62	92	55	72	0	1.7	- .9	.8	6.2	97	93	45	1	0	3	2
OH COLUMBUS	82	65	92	59	74	0	1.8	- .9	1.1	9.0	115	90	60	1	0	3	2
OH DAYTON	84	63	92	58	73	-2	2.1	1.3	1.0	11.5	169	93	50	1	0	3	2
OH TOLEDO	82	63	85	56	72	-1	1.5	- .8	1.2	6.6	106	89	58	0	0	3	1
OH YOUNGS TOWN	79	58	91	51	69	-2	2.2	1.3	1.3	8.5	127	93	55	1	0	3	2

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

Weather Data for the Week Ending July 27, 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 OF		PRECIPITATION	
																.01 INCH OR MORE	.50 INCH OR MORE		
OK OKLAHOMA CITY	98	72	102	65	85	3	.4	-.1	.4	2.9	45	63	26	7	0	1	0		
TULSA	98	72	102	63	85	2	.1	-.6	.1	5.6	73	81	31	7	0	1	0		
OR AS TORIA	71	56	92	50	63	3	T	-.1	T	2.1	66	93	62	0	0	0	0		
BURNS	95	50	100	48	72	2	0	-.1	0	1.0	71	60	12	2	0	0	0		
MEDFORD	97	57	104	52	77	4	0	0	0	1.2	109	78	24	7	0	0	0		
PENDLETON	95	62	100	58	78	4	0	0	0	1.9	146	--	17	5	0	0	0		
POR TLAND	87	61	101	57	74	6	0	-.1	0	2.5	125	79	40	2	0	0	0		
SALEM	88	52	101	47	70	3	0	0	0	2.0	111	90	35	3	0	0	0		
PA ALLEN TOWN	92	68	101	61	80	6	.4	-.6	.3	3.9	54	76	36	5	0	0	0		
ERIE	80	65	91	56	72	1	1.7	-.9	1.1	9.4	147	--	--	1	0	3	2		
HARRISBURG	89	66	99	58	77	1	.8	0	.4	4.0	66	92	51	2	0	3	0		
PHILADELPHIA	90	71	99	67	80	3	2.0	1.1	1.1	4.7	67	88	45	4	0	3	2		
PITTSBURGH	85	64	95	59	75	3	2.9	2.1	1.5	10.2	155	92	48	1	0	2	2		
SCRANTON	85	63	95	56	74	2	1.4	.5	1.3	7.8	113	87	43	4	0	3	0		
RI PROVIDENCE	90	69	100	64	80	6	.1	-.6	.1	4.5	90	87	43	4	0	3	0		
SC CHARLESTON	88	72	93	70	80	-1	4.8	2.9	4.6	9.0	67	99	60	4	0	4	0		
COLUMBIA	92	69	95	67	80	-2	T	-.3	T	3.2	37	68	48	5	0	4	0		
GREENVILLE	90	70	94	67	80	1	.3	-.6	.3	7.8	101	96	49	4	0	2	0		
SD ABERDEEN	85	54	94	46	70	-4	T	-.6	T	3.2	52	74	32	2	0	1	0		
HURON	86	54	99	47	70	-5	T	-.4	T	8.2	146	90	36	2	0	2	0		
RAPID CITY	89	58	98	52	73	-1	.2	-.2	.2	6.6	120	75	33	4	0	1	0		
SIOUX FALLS	84	55	96	49	69	-4	T	-.6	T	3.8	56	87	36	1	0	3	0		
TN CHATTANOOGA	87	70	91	68	79	0	.6	-.5	.4	4.0	49	91	54	1	0	3	0		
KNOXVILLE	89	71	94	69	80	2	1.6	.6	1.2	5.6	73	88	50	3	0	4	1		
MEMPHIS	89	74	95	71	82	0	4.7	3.9	3.5	10.5	164	85	54	4	0	2	2		
NASHVILLE	88	69	97	65	78	-2	3.2	2.4	1.5	6.5	98	94	48	3	0	4	2		
TX ABILENE	100	75	104	68	88	3	.2	-.3	.2	1.3	27	63	25	7	0	2	0		
AMARILLO	92	65	95	62	79	0	.6	0	.6	1.9	33	68	27	6	0	0	0		
AUSTIN	100	76	102	74	88	3	T	-.4	T	.3	6	86	32	7	0	0	0		
BEAUMONT	92	75	96	72	83	0	.9	-.5	.4	1.8	18	95	57	5	0	3	0		
BROWNSVILLE	97	78	99	76	87	2	1.4	1.2	1.2	1.5	39	87	48	7	0	4	1		
CORPUS CHRISTI	96	76	100	74	86	1	1.3	.9	1.3	1.5	37	93	45	6	0	1	0		
DEL RIO	103	78	106	73	90	3	.2	0	--	.2	100	71	23	6	0	1	0		
EL PASO	101	71	106	67	86	4	T	-.4	T	.2	10	39	17	7	0	0	0		
FORT WORTH	103	77	106	72	90	4	.7	.3	.7	2.0	43	61	26	7	0	1	1		
GALVESTON	87	79	90	75	83	-1	1.0	0	.6	1.6	20	92	70	2	0	5	0		
HOUSTON	96	76	101	74	86	2	.4	-.5	.3	1.5	19	92	48	6	0	3	0		
LUBBOCK	94	68	100	66	81	1	.2	-.3	.2	2.0	43	65	28	6	0	1	0		
MIDLAND	96	70	100	66	83	0	T	-.4	T	1.6	52	56	23	7	0	0	0		
SAN ANGELO	101	71	104	63	86	1	0	-.3	0	3.4	113	68	25	7	0	1	0		
SAN ANTONIO	99	77	101	74	88	3	.1	-.3	.1	.6	14	85	35	7	0	2	0		
VICTORIA	98	76	99	73	87	2	.2	-.4	.2	.2	4	90	43	7	0	2	0		
WACO	101	76	102	71	88	2	T	-.3	T	.3	7	81	27	7	0	1	0		
WICHITA FALLS	104	73	107	66	88	3	T	-.4	T	.3	6	68	21	7	0	1	0		
UT BLANDING	93	59	96	57	76	2	.2	-.1	.2	.3	25	61	19	7	0	2	0		
SALT LAKE CITY	97	64	101	58	81	3	T	-.1	T	1.7	89	46	14	7	0	0	0		
VT BURLINGTON	81	63	85	56	72	2	3.0	2.2	2.0	5.8	91	96	59	0	0	5	0		
VA LYNCHBURG	88	67	96	63	78	2	.3	-.6	.3	3.8	56	97	55	2	0	1	0		
NORFOLK	90	70	98	65	80	2	.6	-.8	.6	2.4	28	87	45	4	0	1	0		
RICHMOND	90	69	100	65	80	1	3.2	1.9	2.4	5.6	69	90	55	4	0	2	2		
ROANOKE	88	67	95	61	77	1	.9	0	.8	5.9	91	94	48	1	0	0	0		
WA COLEVILLE	91	58	97	52	74	5	0	-.1	0	2.5	312	--	--	--	--	--	--		
OMAK	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
QUILLAYUTE	75	55	93	52	65	5	T	-.5	T	6.6	122	97	51	1	0	0	0		
SEATTLE-TACOMA	78	58	85	52	68	3	T	-.1	T	2.2	105	82	47	0	0	0	0		
SPOKANE	92	60	101	57	76	5	0	-.1	0	1.2	63	66	20	5	0	0	0		
WALLA-WALLA	95	66	101	63	81	4	0	0	0	1.0	67	57	21	7	0	0	0		
YAKIMA	95	57	101	52	76	4	0	0	0	1.1	122	60	21	7	0	0	0		
WV BECKLEY	82	62	86	54	72	2	1.2	.2	1.0	8.4	104	92	50	0	0	3	1		
CHARLESTON	87	66	94	60	77	2	1.8	.6	1.6	10.1	131	94	53	3	0	3	1		
HUNTINGTON	85	67	93	62	76	0	1.0	0	.7	9.5	134	95	59	1	0	3	1		
PARKERSBURG	83	66	93	60	74	-2	2.4	1.4	1.3	8.4	108	92	54	2	0	4	3		
WI GREEN BAY	77	58	82	51	67	-3	.1	-.5	.1	5.6	93	90	59	0	0	1	0		
LA CROSSE	84	64	91	57	73	0	.1	-.6	.1	5.7	76	87	50	0	0	2	0		
MADISON	82	56	87	49	69	-2	.4	-.4	.4	6.0	78	87	50	0	0	0	0		
MILWAUKEE	75	61	82	55	68	-3	1.4	.7	1.1	7.7	118	88	59	0	0	3	0		
WY CASPER	91	55	98	52	73	0	.5	-.3	.3	1.0	43	71	19	4	0	3	0		
CHEYENNE	85	54	90	51	70	0	.9	-.5	.5	1.8	45	86	31	1	0	3	0		
LANDER	90	56	93	50	73	1	T	-.1	T	.3	12	55	15	4	0	0	0		
SHERIDAN	92	55	99	50	73	1	T	-.1	T	1.2	32	62	17	4	0	1	0		
PR SAN JUAN	92	79	93	78	86	4	.2	-.1	.1	3.3	30	87	58	7	0	3	0		

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS.

## State Summaries of Weather and Agriculture

These summaries provide brief descriptions of crop and weather conditions important on a national scale. More detailed data are available in Weather and Crop Bulletins published each Monday by ESCS State offices in cooperation with the National Weather Service.

**ALABAMA:** Temperatures returned to near normal. Showers above normal.

Soil moisture short to adequate. Fieldwork: 4.6 days. Sorghum planting virtually complete, 96% 1979. Hay harvest 70%. Corn silked 98%, 89% 1979; dented 54%, 57% 1979, 47% average; mature 24%, 35% 1979. Soybeans blooming 40%, 40% 1979, 41% average; setting pods, 16%, 18% 1979. Cotton squaring 97%, 94% 1979, 93% average; setting bolls 68%, 48% 1979, 62% average. Peanuts pegging 78%, 91% 1979, 90% average. Condition: Corn and pastures, poor to fair; soybeans and cotton, fair; peanuts and sorghum, fair to good.

**ALASKA:** Tanana Valley: warm weather dominated through midweek followed by cooler and wetter conditions. Average temperatures were 2 to 4° above normal. Light to moderate rainfall recorded. Matanuska Valley: temperatures averaged 2 to 4° above normal. Cooler temperatures and most of precipitation arrived late week. Kenai Peninsula: temperatures averaged above normal by a couple of degrees. Dry until end of the week. Kodiak Island: temperatures averaged 3 to 4° above normal. No measurable rain until the last day when light amounts fell.

Field activities increased as sunny skies appeared throughout railbelt. Farmers took advantage of 3 to 6 days suitable for making hay. Harvesting advanced to nearly 100% complete several farms. Small grain height averaged 24 to 48 in. Oats and barley generally headed out. Approximately 30% barley in dough stage. Most potato fields blooming and nearly all have been hilled. Supplies of lettuce, radishes, squash, and other greens abundant. Topsoil moisture supply ranged short to surplus. Subsoil moisture mostly adequate.

**ARIZONA:** Hot, humid, scattered afternoon, evening thundershowers. Locally heavy amounts recorded central area.

Cotton continues making good progress with 99% of stands squaring and 90% setting bolls. Irrigation, weed controls and limited pesticide applications active. Bolls opening on stub cotton. Safflower harvest continues. Corn and early planted sorghum continue making good progress. Corn in southeast well into tasseling stage. Sorghum in early planted fields approaching maturity. Sugarbeet harvest over 80% complete. Alfalfa haying continues in full swing. Fifth cutting well advanced in west with fourth cutting well underway central areas. Harvest cantaloups, watermelons tapering off rapidly. Honeydew harvest steady, nearing completion. Grape harvest complete. Few mixed vegetables harvested. Citrus groves good condition. New crop fruit sizing well. Range lands very poor to fair in southern counties. Worst conditions in southwest deserts. Northern rangeland fair to good. Water mostly adequate, several shortages. Livestock fair.

**ARKANSAS:** Scattered rain kept temperatures down. Highest temperature 100°, lowest 52°. All departures from normal +1 to -4°. Most rainfall 6.43 in., least zero.

Cooler temperatures, rain showers lessened effect of drought. Fieldwork possible: 7.0 days. Soil moisture short. Cotton condition fair east central, southeastern counties; northeast poor. Growth slow. Fruit droppage continued. Cotton

setting bolls 91%. Soybeans poor condition. Soybeans blooming 23%. Beans setting pods 12%. Few fields plowed under for seeding wheat. Rice condition fair. Keeping floods a problem. Corn condition poor. Sorghum condition poor, growth slow. Peach, apple condition fair. Cattle condition fair.

**CALIFORNIA:** Hot, and dry virtually everywhere. The high level pressure area that produced the heat wave over the southwest and midwest drifted over State. The heat reached northward nearly to the Oregon border.

Rapid crop development with continued hot weather. Wheat, barley harvest near completion. Wheat 95% harvested. Rice and cotton progress rapid; some spraying for insects. Cotton 85% squared, 25% bolls set. Safflower full bloom. Planting second crop corn and milo. Alfalfa harvest continues. Apricots completed. Hass/Macarthur avocados shipped. Desert dates paper wrapped. Fresh figs packed. Grape mildew halted by heat. Table grapes harvested. Heavy volume nectarines, peaches picked. Large crop Bartlett pears harvest underway. Persimmon fruit drop. Good quality plums, lighter volume. Prune color increased, two dryers running. White grapefruit drop. Lemon movement continues. Navel oranges sizing well, large set. Valencia movement declined. Almond hull split. Walnuts whitewashed. Artichokes heavy but decreasing. Broccoli steady. Brussels sprouts doing well. Cantaloup underway Huron, Firebaugh; good volume. Cauliflower diverted to processors. Carrots slowing Salinas; Kern nears completion. Celery active. Sweet corn continues. Lettuce supplies steady. Onions active San Joaquin; Fresno area, Reds almost finished. Potatoes doing well. Strawberries decreasing Central Coast. Tomato supplies decreasing. San Joaquin; processing crop in full swing on westside. Range fires increasing result hot dry weather. Range feed supplies good. Face flies problem on cattle in some northern areas.

**COLORADO:** Scattered showers and thunderstorms prevailed. Amounts of precipitation varied widely. Average temperatures were very close to normal. Winter wheat harvest 92%, 80% 1979, 88% average. Ripe 96%, 94% 1979, 97% average. Corn average height 63 in., 65 in. 1979, silked 31%, 18% 1979. Barley ripe 49%, 41% 1979, harvested 32%, 24% 1979. Fieldwork: 6.0 days suitable. Ranges and pastures in good condition. Livestock good condition. Alfalfa second cutting 46%, 42% 1979, 42% average; third cutting just underway.

**FLORIDA:** Rainfall averaged 4.00 in. through 25th in Panhandle and north, with local amounts of 12.00 to 16.00 in. in western Panhandle and northwest Peninsula. Elsewhere rainfall averaged 1.00 to 3.00 in. Rainfall over the weekend averaged 0.50 in. or less. Temperatures near seasonal normal with highs in the low and mid 90's and lows in the 70's.

Soil moisture variable; short in Panhandle except along coast, adequate north, short northeast and central, adequate to surplus in south. Corn harvest increasing; yields reduced by dry conditions. Soybeans and peanuts improved but still need moisture. Tobacco harvest active, selling underway. Hay harvest continues. Sugarcane good to excellent condition. Pastures improved consid-

erably. Peninsula good to excellent. Panhandle poor to fair. Haying active. Cattle good to excellent condition. Citrus groves greatly improved after several days of scattered rainfall and cooler daytime temperatures. Vegetable season complete for spring quarter. A limited supply of summer vegetables and watermelons continues to move through local markets. Land preparation active for summer and fall planting.

GEORGIA: Temperatures near normal. Rainfall variable, less than 0.50 in. north to over 4.00 in. in spots south. Most areas received rains ranging less than 1.00 in. to over 2.00 in. on 26th and 27th.

Soil moisture improved but extremely variable, averaged very short to short. Five days suitable for fieldwork. Scattered showers helpful for late crops where received but too late for most corn, and some soybeans. Corn mostly poor to fair, much salvage harvest for silage, fields surviving were 92% dough, 75% dent, 38% mature, 7% harvested this year and last. Soybeans poor to mostly fair, 35% blooming, 9% setting pods. Peanuts mostly fair to good, 99% blooming this year and average, 100% last year, 94% pegging, last year 99% and average 97%. Cotton mostly fair to good, 98% setting bolls this year and last, 94% average, 1% open this year, last and average. Tobacco fair to good, 44% harvested, 64% last year and 65% average. Watermelons mostly fair to good, 77% harvested, last year and average 86%. Peaches fair to good, 89% picked, last year and average 92%. Apples fair to good, 17% picked, last year 16%. Pecans showing drought stress, poor to fair. Vegetables fair. Pastures and hay crops poor to fair. Cattle and hogs fair to good. Poultry losses continue but at sharply reduced rate.

HAWAII: Weather warm and humid. Showers light and beneficial most sections.

Heavy irrigation continuing in some drier areas where leafy plantings are located. Insects increasing with warmer weather. Spraying frequent. Vegetable supplies adequate. Banana supplies light, however, will gradually increase in the next quarter as more fruits will come into harvest. Papaya supplies light. Shipments to Honolulu steady. Pineapples at peak harvest. Pastures generally fair to good. Sugar harvest continues steady.

IDAHO: High temperatures averaged in 90's, lows averaged low 50's. Extremes: 100 and 30°. Precipitation slight. Few showers and thunderstorms. Warm and dry.

Winter wheat 4% harvested, 10% 1979, 4% average. Spring wheat 96% headed, 100% 1979, 98% average. Potatoes 12 in. high. Alfalfa second cutting 19% complete. Bluegrass seed 17% harvested. Mint 13%. Fieldwork: 7.0 days suitable.

ILLINOIS: Temperatures normal to 4° below normal. Precipitation 0.50 to 1.30 in.

Soil moisture adequate to mostly short. Corn condition good to fair; 95% silked, 72% last year, average 82%; 25% dough, 8% last year, average 26%. Soybean condition good to fair; 83% blooming, 69% 1979, 73% average; 35% setting pods, 26% 1979, 37% average. Winter wheat acreage 20% plowed, 13% 1979, 16% average. Oats 98% ripe, 80% 1979, 91% average; 55% harvested, 43% 1979, 65% average. Alfalfa good to fair. 88% second crop cut, 80% 1979, 78% average. Pastures fair to poor. Fieldwork: 6.5 days suitable.

INDIANA: Valuable rains. Temperatures near normal, ranged from 50 to 93°. Rainfall 1.10 in. northwest to 3.50 in. in northeast. In central

2.70 to 3.20; in south, 1.50 west to 2.00 in. central and east. Week 10° cooler than previous week.

Fieldwork averaged 5.0 days. Topsoil and subsoil moisture short to mostly adequate. Corn and soybean condition fair to good. Pastures fair. Corn 75% silked, 1979 55%, average 65%. Corn 15% in dough. Soybeans 75% bloomed, 1979 60%, average 60%. Soybeans 20% setting pods, 1979 10%, average 25%. Soybeans 21 in. high. Wheat 100% combined, 1979 95%, average 100%. Oats 55% combined, 1979 40%, average 70%. Rye 90% combined, 1979 75%. Wheat 1981 cropland 5% plowed, 1979 5%. Peaches 25% picked, 1979 25%. Alfalfa hay 80% cut second time, 1979 75%, average 75%.

IOWA: Temperatures averaged about 3° subnormal. Precipitation varied from near normal central and southeast to 0.10 in. or less in the north and other localized areas.

Fieldwork: 6.6 days suitable. Corn acreage tasseled 96%, 1979 73%, normal 89%. Corn acreage silked 82%, 1979 47%, normal 71%. Corn in or past milk stage 33%, 1979 7%, normal 17%. Soybean acreage blooming 87%, 1979 72%, normal 79%. Soybean acreage pods setting 40%, 1979 24%, normal 41%. Winter wheat harvested 97%, 1979 86%, normal 91%. Oats harvested 84%, 1979 53%, normal 74%. Second crop alfalfa hay harvested 85%, 1979 77%, normal 78%. Second crop clover hay harvested 56%, 1979 40%, normal 45%. Topsoil moisture short to adequate. Subsoil moisture short to adequate. Crop conditions: Most crops good. Pastures fair. Grain market movement increased. Livestock in fair condition. Some stress, market movement increased.

KANSAS: Intense heat broken along with spotty beneficial rain. Precipitation averaged little or none north central to around 1.00 in. northwest, with west and south central districts from 0.25 to 0.50 in. elsewhere. Temperatures averaged 77 to 80° or 1° below normal north central and central districts to 2° above normal southeast.

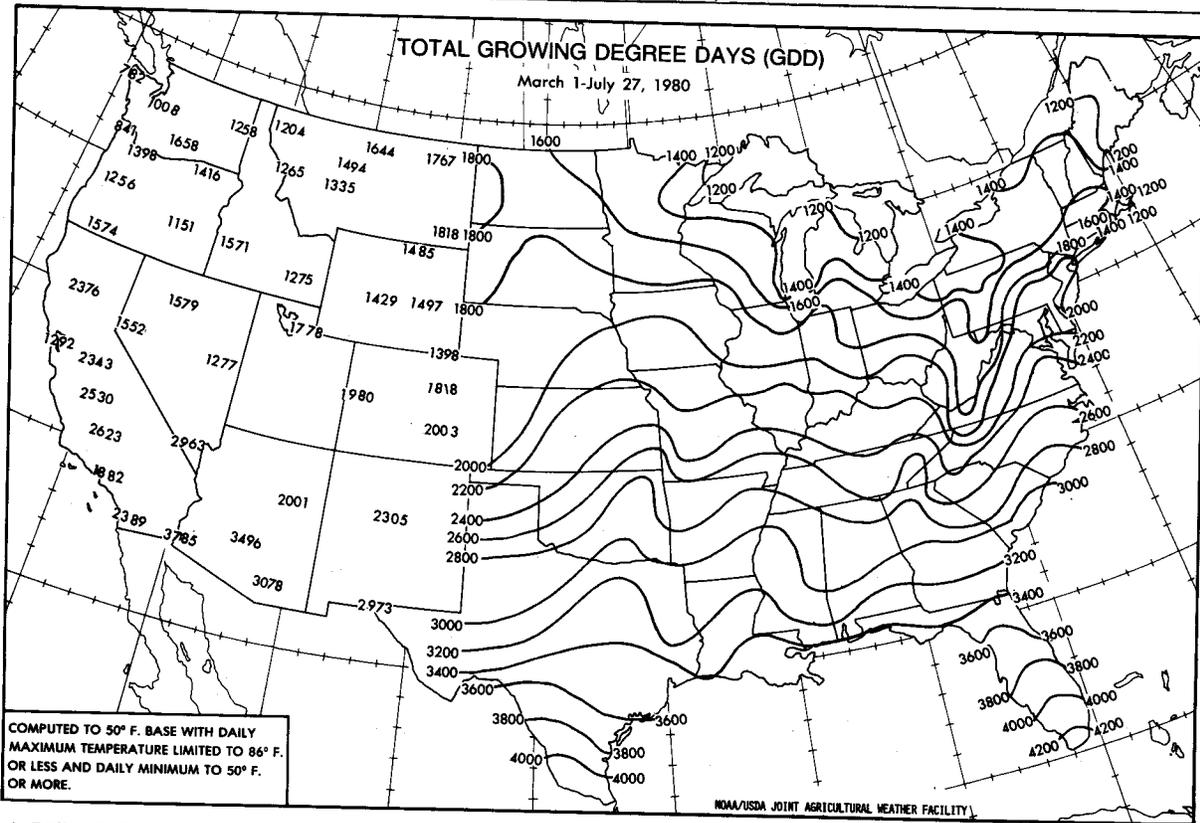
Corn tasseled 70%, 50% last year, 70% average; dough 15%, 10% year ago, 15% average. Sorghum headed 15%, 10% in 1979, 15% average. Soybeans blooming 45%, 30% previous year; setting pods 5%, 10% year ago, 15% average. Second cut alfalfa 96%, 90% last year, 95% average; third cut 25%, 20% 1979, 30% average. Grasshoppers moving from field boundaries into crops, moderate to severe. Drought conditions persist.

KENTUCKY: Precipitation averaged 1.00 to 2.50 in. from showers and thunderstorms. Temperatures averaged close to normal.

Crop stress relieved by rains, but soil moisture still rated short to adequate. Corn condition good to fair. Early corn adversely affected by previous dry hot weather. Fall armyworm causing problem in late corn. Corn reported in following stages: Pre-silked 20%, silked 45%, milk or later 35%. Soybeans recovering well with 40% blooming compared with 30% last year and average of 37%. Condition reported to be mostly good to fair. Tobacco prospects below average, many fields are irregular and short. Black shank major problem. Topping started in earlier planted fields, many fields blooming short. Pastures rated poor to fair.

LOUISIANA: Rain statewide, heaviest 24-hour total 2.95 in. Temperatures 1° below to 1° above normal; extremes 66 and 101°.

Soil moisture short. Fieldwork: 4.9 days suitable. Corn poor to fair. Silked 100%, 100% 1979. Dough 84%, 89% 1979. Mature 30%, 52% 1979. Harvested 7%. Cotton fair. Squaring 100%, 95% 1979. Setting bolls 86%, 76% 1979. Rice fair to good.



Headed 70%, 62% 1979. Ripe 18%, 14% 1979. Harvested 10%, 6% 1979. Sorghum poor to fair. Headed 57%, 56% 1979. Turning color 13%, 21% 1979. Soybeans fair. Blooming 39%, 43% 1979. Setting pods 17%, 22% 1979. Sugarcane fair to good. Pastures fair. Haying active. Livestock fair to good. Peaches harvested 90%. Vegetables poor to fair. Sweetpotatoes fair. Light harvest underway.

MARYLAND & DELAWARE: Temperatures 2° above normal. Highs in upper 80's to low 90's. Lows upper 60's to low 70's. Precipitation varied.

Corn 80% tasseled, 60% silked, 25% dough. Last year 70% silked. Soybean 75% bloomed, 8% podded. Wheat and rye 97% harvested. Last year rye 98%, wheat 95%. Oats 80% cut, last year 70%. Alfalfa, second cutting 90%, third cut 40%. Second cutting clover 80%. Soil moisture adequate to short. Five days suitable for fieldwork.

MICHIGAN. Temperatures generally below normal with only the northeast and southeast districts of Lower being normal while temperatures elsewhere averaged 1 to 2° below normal. Precipitation 0.30 to 0.70 in. Upper, 0.10 to 0.30 in. northwest Lower, 0.30 to 1.00 in. northeast Lower, 0.70 to 2.10 in. central Lower, 0.70 to 2.50 in. southern Lower.

Adequate soil moisture promoting good crop progress. Corn 30% silked, 20% last year, 46% normal. Hay 2nd cut, 31% complete, 38% last year, 42% normal. Oats yellowing 66%, 82% last year. Wheat 33% harvested, 57% last year, 71% normal. Harvest delayed by poor drydown. Sweet cherries 72% picked, 76% last year, 82% normal. Tart cherries 45% picked, 54% last year, 71% normal. Fresh market vegetables beginning to be sold. Blueberry harvest well underway.

MINNESOTA: Temperatures averaged near normal to 4° below normal in the northern districts, near normal to 3° below normal elsewhere. Extremes: 96 and 41°. Precipitation averaged below normal in all areas. Precipitation totals were light by fairly uniform. Less than 0.50 in. in all districts except locally in portions of the central district up to 0.91 in. and the east central district up to 0.66 in.

Cooler weather, scattered rainfall maintained row crop conditions most areas. West central and southeast adequate soil moisture. Elsewhere short to very short. Field corn: Tasseling 89%, 1979 40%, normal 76%; in milk 7%, 1979 0%, normal 15%. Blooming: Sunflowers 66%, 1979 11%; soybeans 86%, 1979 64%, normal 82%. Soybeans: Setting pods 22%, 1979 3%, normal 28%. Cut or swathed: Winter wheat 78%, 1979 17%, normal 60%; rye 71%, 1979 19%, normal 62%; spring wheat 17%, 1979 0%, normal 22%; oats 41%, 1979 2%, normal 37%; barley 49%, 1979 0%, normal 33%. Combined: Winter wheat 36%, 1979 2%, normal 35%; rye 20%, 1979 1%, normal 34%; spring wheat 5%, 1979 0%, normal 11%; oats 15%, 1979 0%, normal 21%; barley 16%, 1979 0%, normal 16%. Turning ripe: Spring wheat 83%, 1979 16%, normal 63%, oats 93%, 1979 41%, normal 77%; barley 95%, 1979 29%, normal 74%.

MISSISSIPPI: Rains fell most areas on 3 days. Temperatures 2° below normal. Extremes: 63 and 100°. Greatest 24-hour rainfall 7.30 in.

Soil moisture mostly adequate. Fieldwork: 3.7 days suitable. Hay 61% harvested, 55% 1979, 55% average. Peaches 69% harvested, 72% 1979, 76% average. Watermelons 50% harvested, 73% 1979, 59% average. Corn silage 28% harvested, 22% 1979. Soybeans 55% blooming, 45% 1979, 47% average; pod-

ding 18%, 14% 1979, 13% average; fair to good condition. Corn 95% silked, 96% 1979, 90% average; dough stage 71%, 69% 1979; dented 36%, 38% 1979; condition fair. Cotton 98% squaring, 98% 1979, 96% average; blooming 91%, 84% 1979; setting bolls 69%, 52% 1979, 54% average; good to fair condition. Rice headed 15%, 16% 1979, 20% average; good to fair condition. Sorghum 35% headed, 39% 1979. Pastures fair condition.

**MISSOURI:** Temperatures averaged near normal. Thunderstorms across State, ranging from 0.25 to 1.00 in. rain.

Fieldwork: 6.2 days suitable. Corn 91% tasselled, last year 75%. Corn 32% silked, last year 63%, normal 68%. Grain sorghum 43% headed, last year 24%, normal 39%. Soybeans 58% blooming, last year 35%, normal 45%. Soybeans 16% setting pods, normal 8%. Oats 98% harvested, last year 80%, normal 93%. Alfalfa hay second cutting 95% harvested, last year 81%, normal 87%. Alfalfa hay third cutting 20% harvested, last year 11%, normal 16%. Cotton 94% blooming, last year 81%. Cotton 70% setting bolls, last year 33%, normal 63%. Condition of corn, soybeans and cotton poor to fair. Pasture condition poor. Topsoil moisture supplies short.

**MONTANA:** Widely scattered showers and thunderstorms. Most rainfall amounts light. Temperatures ranged 1 to 2° above normal in east, north central, and central, 3 to 4° above normal west of divide southwest and south central. Extremes: 109 and 36°.

Moisture conditions remain extremely short eastern third, central short, western topsoil short, subsoil mostly adequate. Crop conditions remain non-existent to poor in east, fair to good central and good to excellent west. First cutting alfalfa 95% harvested and wild hay 65%. Stock water supplies very short east and adequate elsewhere. Grazing prospects on late summer ranges are poor east, fair to good central, good west. Days suitable for fieldwork: 7.0.

**NEBRASKA:** Precipitation averaged 0.33 in. Temperatures 3 to 4° below normal over central and east, first time in over 5 weeks; panhandle temperatures normal.

Winter wheat 99% harvested; 85% last year; 90% normal. Corn fair to good, 70% silking; 45% last year; 65% normal; 5% in dough, 0% last year. Wide variations in condition reported between irrigated and non-irrigated acreage. Dryland corn eastern third showing most deterioration. Soybean crop fair to good, 85% blooming; 30% podding, 15% last year, 25% normal. Sorghum mostly fair to good, 40% heading; 15% last year; 30% normal. Second cutting of alfalfa 90% harvested; 75% last year. Alfalfa mostly fair. Topsoil moisture short. Subsoil moisture short. Pasture and range feed supplies mostly short. Pastures showing limited growth in past 2 to 3 weeks. Supplemental feeding becoming more widespread.

**NEVADA:** Record heat scorched State. Temperatures averaged 5 to 10° above seasonal norms with most afternoon readings 100+°. Extremes: 31 and 113°. Widely scattered thunderstorm activity produced mostly trace precipitation.

Alfalfa and wild hay harvesting good progress with hot, dry weather. Small grain combining full swing. Ranges beginning to show effect record breaking dry, hot weather.

**NEW ENGLAND:** Hot temperatures early week gave way to more moderate temperatures midweek. Hot weather returned by weekend over all regions except Maine.

Scattered showers and thundershowers. Amounts 0.50 to 1.50 in. North with lesser amounts South.

Fieldwork: 3.0 days suitable North, 6.0 days South. Scattered showers and high humidity brought haying to standstill. Vegetable harvest continues with produce coming to market in increasing amounts. Potato crop good in northern Maine where farmers have completed hilling and cultivating. Early potatoes being harvested in southern New England. Early peaches being harvested, but are of small size. Apple crop continues good. Cranberry bogs short of moisture but fruit set appears good. Corn crop growing rapidly where moisture sufficient. First reports indicate oats crop fair. Soil moisture short to adequate North and mostly short South. Grazing conditions mostly short to adequate.

**NEW JERSEY:** Temperatures averaged 1 to 3° above normal. Extremes: 52 and 105°. Rainfall averaged 1.02 in. north, 1.35 in. central and 1.44 in. south. Heaviest 24-hour total: 3.54 in.

Estimated soil moisture, in percent of field capacity averaged: 62 north, 49 central and 64 south.

Fieldwork: 5.7 days suitable. Most areas could use a good soaking rain. Irrigation in full use. Summer vegetable volume increasing. Irish potato harvest increasing. Sweetpotato vine growth good. Blueberry volume continues good. Apple, peach harvest increasing. Wheat harvest nearing completion. Early planted field corn and soybean growth excellent. Later plantings need a good soaking. Pasture growth limited.

**NEW MEXICO:** Weather continued hot and dry. Showers all sections, but amounts well below normal.

Irrigated crops generally good condition. Lack of soil moisture causing dryland crops to remain in poor condition. Cotton bolls approximately 50% set. Third cutting alfalfa approximately 40% complete in southern counties and second cutting just getting underway in far northern counties. Wheat and barley harvest complete most areas, with more northern areas still to harvest. Grasshopper control program complete. Livestock fair condition. Grassland very dry.

**NEW YORK:** Temperatures near normal, rainfall variable but heavier in north.

Corn in good condition, many fields tasseling. Wheat 10% harvested, 25% 1979, 41% average. Oat harvest beginning. Second cutting alfalfa 31% done, 28% 1979, 36% average. Third cutting starting. Sweet corn, snap beans, early cabbage harvesting underway. Most Long Island vegetable crops being irrigated due to dry conditions. Sweet cherry harvest ending, tart cherry harvest starting.

**NORTH CAROLINA:** Temperatures 4° above normal early week, then near normal. Precipitation near normal to below normal.

Fieldwork: 5.6 days suitable. Soil moisture short to adequate. Conditions: Pastures, field tobacco, corn, hay fair to good; cotton, sweetpotatoes, apples, peaches good; peanuts, soybeans, Irish potatoes fair to mostly good. Harvested: Irish potatoes 95%, 1979 100%, average 95%; flue-cured tobacco 18%, 1979 29%, average 26%; peaches 70%, 1979 66%, average 69%; hay 68%, 1979 74%, average 72%. Phenological stages: Cotton squared 90%, 1979 83%; with cotton set bolls 74%, 1979 62%; corn silked 89%, 1979 79%; corn soft dough 68%, 1979 51%; corn dent 31%, 1979 29%; soybeans blooming 25%, 1979 13%.

**NORTH DAKOTA:** Dry week on the average. Little or no rain fell in southern and central portions, elsewhere light amounts were the rule. The most reported was only 0.67 in. Temperatures averaged slightly below normal in the east and slightly above normal in the west. Extremes: 40 and 107°.

Dry weather provided ideal harvest conditions. Swathing and combining of small grain showed excellent progress. Barley harvest in full swing. Additional acreage being swathed for hay, grazed or plowed down.

Cooler temperatures favored row crops but conditions mostly unchanged from last week. Moisture badly needed. Percentage row crops good, fair and poor are: Potatoes 20, 80, 0; corn 29, 42, 29; and sunflower 31, 45 and 24. Sunflower acreage in bloom, 19%.

Subsoil moisture short. Adequate topsoil moisture covers only small portion of important durum producing area during critical filling stage of development. Durum 40% in milk to dough stage.

Pasture growth maintained at about last week's level. Hay cutting winding up for first cuttings. Supplemental feedings continue heavy. Livestock sales continue.

**OHIO:** Average temperatures averaged near normal; ranging 51 to 96°. Rainfall all areas; range 0.50 to 6.00 in.

Wheat harvest gone well; quality high. Soybean stands variable, behind normal progress. Many drilled fields weedy due to washing out of herbicides. Corn stands variable but developing well despite late planting. Corn silked 75%, 75% 1979. Corn in dough 10%, 5% 1979, 10% average. Soybeans blooming 65%, 85% 1979. Wheat harvested 95%, 90% 1979, 95% average. Oats harvested 25%, 20% 1979, 50% average. Fieldwork: 5.0 days suitable. Pasture condition good. Soil moisture adequate.

**OKLAHOMA:** North central averaged 2° below normal while all other areas averaged from 0 to 2° above normal. Nearly all areas reported maximum readings of 100° or higher. Precipitation ranged from 0.01 in. in west central to 0.77 in. in east central. Southeast averaged 0.75 in.

Scattered rains brought relief, cool temperatures but did little alleviate critical soil moisture shortage. Topsoil moisture short, subsoil moisture short 75% counties. Sorghum heading 35%, 15% 1979, 40% average. Sorghum milk to dough 5%, 5% 1979, 10% average. Cotton squaring 70%, 60% 1979, 75% average; cotton setting bolls 10%, 5% 1979, 20% average. Days suitable fieldwork, 6.8.

**OREGON:** Above normal temperatures, averaging 3° above normal. Dry weather prevailed with only trace amount received in northeast and along coast.

Soil moisture supplies short throughout west and in several counties in the east. Winter wheat good, 14% harvested, 35% 1979. Fall barley harvest starting. Haying and grass seed combining continues. Sour cherry harvest underway, sweet cherry nearly over. Early peaches started. Raspberries nearly completed. Blueberries and boysenberries continuing. Norgold potato harvest to start in northeast. Pea harvest nearly finished. Beet and bean harvest continuing. Livestock, range and pasture good to excellent. Some non-irrigated areas drying out. Grasshoppers problem in a few areas.

**PENNSYLVANIA:** Early part of week was a continuation of hot and humid weather. However, during 23rd a cold front pushed across the State bringing substantial rainfall to most areas. Those areas receiving less than 0.50 in. were mainly in the south central mountains, middle Susquehanna Valley

and the east central mountains. High temperature was 94°, low was 43°.

Fieldwork: 5.0 days suitable. Soil moisture short to adequate. Average height for corn is 51 in., last year 54 in. Barley 11% ripe and 89% harvested; last year 6% turning yellow, 14% ripe and 80% harvested. Wheat 43% ripe and 56% harvested; last year 7% turning yellow, 49% ripe and 44% harvested. Oats 9% headed, 41% turning yellow, 36% ripe and 14% harvested; last year, 14% headed, 52% turning yellow, 25% ripe and 6% harvested. Second cutting of alfalfa is 57% complete, last year 46%. Clo-tim harvest virtually complete, same as last year. Feed from pasture mostly below average to average.

**PUERTO RICO:** Island average rainfall 0.76 in. or 0.69 in. below normal. Temperatures averaged about 83° on coasts and 77 to 79° interior divisions. Extremes 95 and 60°.

**SOUTH CAROLINA:** Started very hot, below normal later, averaging near normal. Scattered showers in northwest at first, finally more general rains along immediate coast. Rainfall too widely scattered elsewhere to provide any substantial drought relief.

Days available for fieldwork: 5.5. Corn condition poor to fair, losing some prospects due to drought; 96% silked, 97% last year, 96% average; 73% dough stage, 82% year ago, 84% average; 21% mature, 35% last year, 44% average. Cotton fair to good condition, insect levels increasing, spraying more hot spots; 99% squared, 98% last year, 95% average; 91% setting bolls, 88% year ago, 85% average; no open bolls. Soybeans fair, 17% bloomed, 40% year ago, 33% average; no pods set, behind 1979's nearly 4%. Tobacco condition fair, virtually all topped; 20% harvested in hot weather, behind last year's 64% and 55% average. Peaches fair to good condition with irrigation helping relieve stress, 70% harvested, near 75% year ago, 78% average. Pastures, hay crops poor to fair due to general drought. Watermelon condition fair, 78% harvested, 90% year ago, 84% average. Cantaloup condition fair, 65% harvested, behind year ago's 82%.

**SOUTH DAKOTA:** Temperatures varied, alternate cool and warm periods. Extremes: 106 and 41°. Rainfall quite scattered.

Topsoil moisture adequate only in small part of Northeast and East Central. Short to critically short elsewhere. Fieldwork: 5.0 days suitable. Winter wheat harvest 99% completed. Yields significantly better on summer fallow than on continuously cropped. Other small grain harvest advancing rapidly. Pastures poor. Supplemental feed and watering needed. Herd reduction continuing. Row crops under increasing stress. Soybeans bloomed 84%, 60% 1979, 77% average. Winter wheat harvested 99%, 16% 1979, 68% average. Rye harvested 68%, 9% 1979, 59% average. Oats harvested 63%, 11% 1979, 43% average. Barley harvested 60%, 7% 1979, 47% average. Spring wheat harvested 44%, 1% 1979, 25% average. Corn tasseled 70%, 42% 1979, 54% average. Corn silked 40%, 19% 1979, 39% average. Grain sorghum headed 19%, 10% 1979, 10% average.

**TENNESSEE:** Temperatures averaged normal west and 1° above middle and east. Rains in most areas; amounts between 1.08 in. and 5.40 in.

Fieldwork: 4.8 days suitable. Soil moisture mostly short. Soybeans 40% blooming, 1979 37%, average 47%. Soybeans 10% setting pods, 1979 11%, average 13%. Corn 80% silked, 1979 70%, average 75%. Corn 35% in dough, 1979 26%, average 35%.

Corn 4% dented, 1979 3%, average 10%. Cotton 98% squaring, 1979 91%, average 95%. Cotton 65% setting bolls, 1979 30%, average 44%. Burley tobacco 6% topped. Lespedeza hay 13% harvested, 1979 11%, average 10%. Pastures mostly poor. Cattle good.

**TEXAS: Weather:** Scattered thunderstorms over most of State. Temperatures near normal over northern Panhandle, Northeast, North Central, Edwards Plateau. Temperatures 5 to 6° above normal Northwest, West, Coastal regions. Precipitation 0.25 to 0.50 in. below normal Northwest, West; near normal over Panhandle, Central, 0.25 in. above normal over South, 0.25 to 0.50 in. above normal East, Southeast, Coast. Average precipitation less than 0.50 central portion to 0.50 in. West, East, South to 1.00 in. Southeast.

**Commercial vegetables:** In lower Rio Grande Valley land preparation fall planting active. Most harvesting activity at standstill; however light supplies melons, okra, mixed vegetables available. In the San Antonio-Winter Garden area harvest most vegetables about ended. At Uvalde some late onions still available. Few cantaloups, onions moving at Crystal City while some honeydew melons available in La Salle County. In Central watermelon harvest continued. In East many vegetables burning up where water not available. Light supplies of peas, okra, tomatoes, watermelons available. Sweetpotatoes need rain. In North most vegetables deteriorated from hot dry weather. On High Plains harvest of onions, potatoes continued with good volume. Light supplies cucumbers being harvested. Green peppers making good growth. Peach harvest continued with light supplies. Pecans entered the water stage.

**Crops:** Despite scattered showers State remained under drought conditions for fifth consecutive week. Crop and livestock conditions continue to deteriorate. Dryland crop prospects become dimmer as dry spell continues. Rio Grande Valley, South harvest of cotton full swing. Corn, sorghum harvest spread into all districts except Plains, Cross-Timbers. Cotton continued to suffer as dry, hot conditions prevailed. Plains dryland fields developing rapidly, many fields blooming. Irrigated fields remain fair to good. Coast, East fields maturing rapidly, harvest expected shortly. Rio Grande Valley, South, Coastal Bend harvest continued despite rain delays. Sorghum development hampered by hot, dry conditions. Sorghum being baled, grazed out because of poor grain prospects. Plains fields heading. Irrigated fields affected by heat. Harvest beginning Cross-Timbers, Blacklands. Rio Grande Valley, Central, South harvest well underway. Dryland corn remained critical. Rapid drying of leaves, stalks, poor ear development. East many fields will not be harvested. Plains fields tasseling. Irrigated fields remaining in fair condition. Peanuts maturing rapidly. Central, Cross-Timbers, fields showing effects of heat. Rice harvest well underway. Quality of this year's crop expected to be reduced. Soybeans developing at slow pace. Early planted fields setting pods. Hay fields providing very little growth. Fields burned severely, producers in some areas abandoned hope for second crop. Cotton squaring 96%, 81% 1979. Cotton setting bolls 46%, 38% 1979. Cotton open bolls 12%, 8% 1979. Cotton harvested 2%, 1% 1979. Rice harvested 25%, 8% 1979, 19% average. Sorghum harvested for grain 48%, 29% 1979, 34% average. Corn for grain harvested 13%, 4% 1979, 5% average.

**Range and livestock:** Range, livestock conditions continued to deteriorate. Range, forage growth continued to diminish and supplemental feeding of hay and concentrate increased. Increased marketing of cattle, calves kept auctions busy. Chance of grass fires increased. Overall, most livestock fair to good condition.

**UTAH:** Few scattered showers and thunderstorms principally southern portion latter half period. Accumulated amounts moisture generally light to moderate. Average temperatures range from near normal to 7° above.

Fieldwork possible 7.0 days. Soil moisture short on unirrigated land but irrigation water in good supply. Grain harvest gaining momentum. Second crop alfalfa producing good yields and quality. Apricot harvest nearly complete. Tart cherry harvest active. Low elevation pastures drying fast, but high mountain ranges still lush. Cattle and sheep good condition.

**VIRGINIA:** Temperatures in the 90 to 100°-range except for brief relief after widespread rainfall. Except for 3.00 to 4.00 in. some central, southern parts, rainfall generally around 0.50 in.

Rain aided crop, pasture growth. Topsoil moisture short to adequate. Fieldwork: 4.6 days suitable. Pastures, hay, corn mostly poor central, east, southeast; fair to good elsewhere. Forage from grazing adequate, 40% poor. Soybeans fair to good Tidewater, southeast. Tobacco, peanuts good to excellent. Flue-cured tobacco 3% pulled, 7% 1979, 8% average. No fire-cured, sun-cured harvested yet. Hot temperatures checked blue mold growth on burley. Corn acreage 70% slied, 30% in dough; most early corn poor. Ensiling active southeast. Lightning killed some livestock southwest. Picking peaches, summer apples north. Cutting cabbage southwest. Preparing land for fall cucumbers, snap beans on Eastern Shore.

**WASHINGTON: West:** Mount St. Helens eruption on 22nd: Ash carried over to east, no crop damage. Temperatures averaged several degrees above normal. Some precipitation northern counties, but well below normal. Harvesting green peas, broccoli, lettuce, cauliflower. Clearing up strawberry fields. Red raspberry harvest tapering off. Blueberry harvest full swing. Much hay cut. Field crops growing well. Christmas tree shearing well along.

**East:** Light ashfall central, northeast parts of State: No damage attributed. Temperatures averaged 1 to 7° above normal. Very little precipitation. Wheat, barley harvest beginning. Soil moisture adequate, grain growth spurred by hot weather. Cherry harvest nearly complete. Apricot, peach, prune harvests underway. Apples, pears showing good growth. Potato crop looks good, harvesting in southern counties. Green pea harvest winding up. Harvest of sweet corn, snap beans soon. Alfalfa in second cutting. Still short of dairy quality hay. Winter wheat harvest 8%, 1979 20%.

**WEST VIRGINIA:** Temperatures 3° above normal. Extremes: 101 and 44°. Precipitation well above normal.

Soil moisture adequate. Fieldwork: 4.2 days suitable. Wheat good to fair condition, 10% headed, 31% ripe, 59% harvested compared to 30%, 36%, and 34% respectively 1979. Barley good to fair, 3% headed, 22% ripe and 75% harvested compared to 14%, 27%, and 59% respectively 1979. Oats good to fair, 59% headed, 32% ripe and 9% harvested, compared to 66%, & 23% and 5% respectively 1979. Hay good to fair. 1st hay 91% harvested, 93% of normal completion. 2nd hay 26% harvested, 83% of normal completion. Fruit fair. Peaches 16% harvested, 62% of normal completion. Potatoes good to fair. Pastures good to fair.

(continued on page 16)

## International Weather and Crop Summary

July 21 - 27

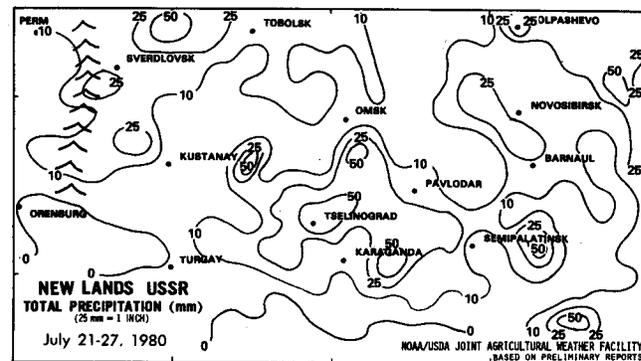
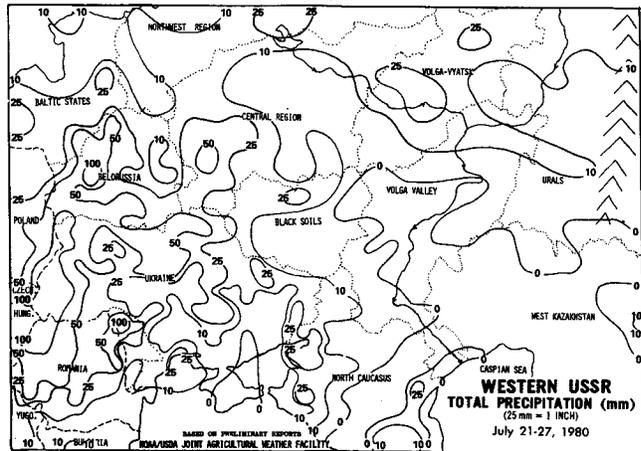
**HIGHLIGHTS:**

- USSR:** Harvesting winter grains...too wet in the western Ukraine. Spring grains heading\*...beneficial rains in southern New Lands.
- EUROPE:** Harvesting winter grains...too wet in the North.
- CHINA:** Many crops flowering\*...soil moisture good.
- INDIA:** Rice jointing\*...good soil moisture; some flooding.
- THAILAND:** Early rice crop nearly mature\*...abundant rainfall.
- AUSTRALIA:** Winter grains semi-dormant...too dry in the northeast.
- ARGENTINA:** Winter grains semi-dormant...adequate soil moisture.
- MEXICO:** Maize in flowering stage\*...beneficial rains.
- CANADA:** Spring grains in filling stage...conditions improved.

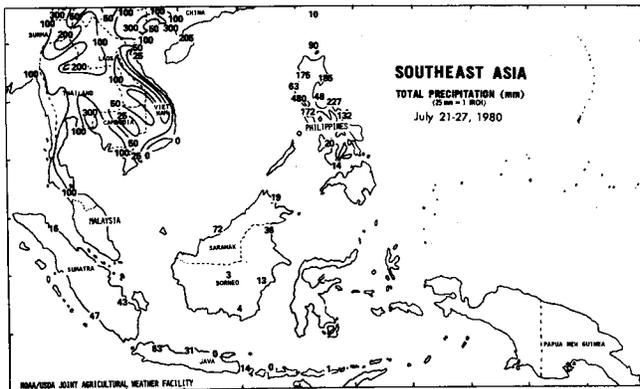
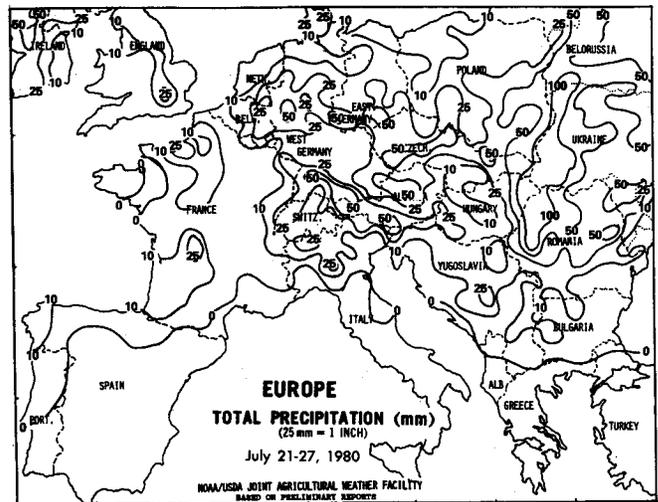
\*Based on normal crop calendar information.

**USSR.** Rainfall in the Ukraine intensified and advanced further east, while the weather improved in parts of northern European USSR. Heavy rains of more than 100 mm (4 to 5 times normal) in western Belorussia, the western Ukraine, and northern Moldavia created very unfavorable conditions for crops, especially for ripening winter grains in the southern areas. Temperatures in these wet areas held near normal. Above-normal rainfall in Krasnodar and the southeastern Ukraine probably did not seriously disrupt winter grain harvest. Eastern winter grain areas had good harvest weather, but the hot and dry conditions were not good for spring-planted row crops in these areas.

In the New Lands, widespread showers maintained adequate soil moisture in most areas. Especially beneficial rains ranging much above normal fell across the south from the Tselinograd area eastward to beyond Semipalatinsk. Soils in these southern areas were becoming a little too dry before this week.

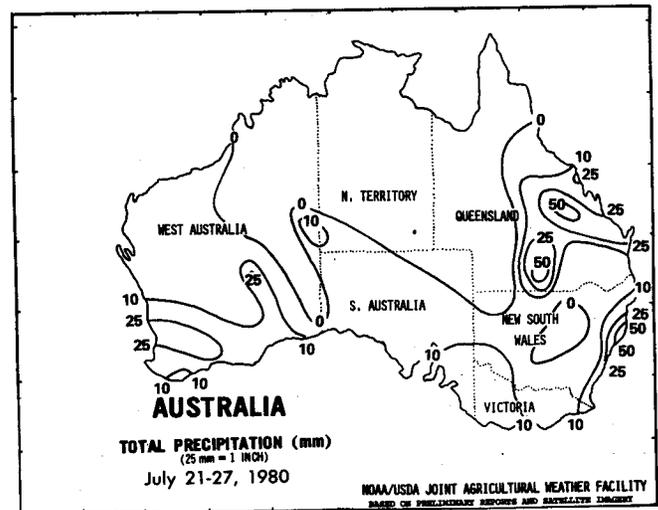


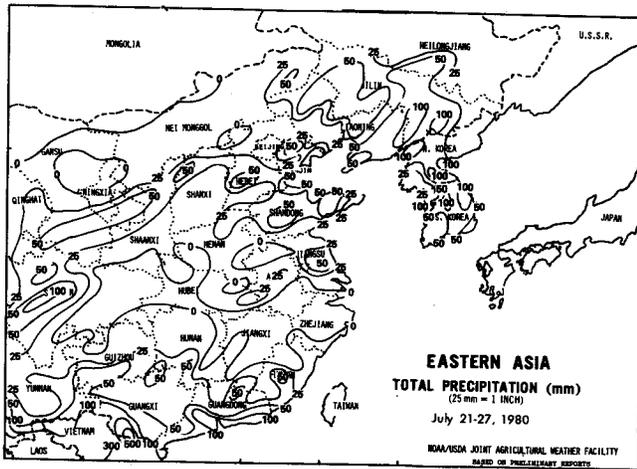
**EUROPE.** Wet weather continued in a band extending from Belgium and Holland eastward into the USSR. Rainfall of more than 50 mm in many places (2 to 3 times normal) kept conditions too wet for most crops. Totals in excess of 100 mm have sent rivers over their banks from northwestern Romania to southeastern Poland. Reports of crop conditions in the west remain optimistic as weather there cleared during the week. England escaped with lighter rainfall, but at week's end a new storm was moving in from the Atlantic. Favorable weather prevailed in central and southern France as winter grain harvesting got underway. Near-normal rainfall occurred in major crop areas of Yugoslavia and Romania, but temperatures stayed below normal. Temperatures over most other countries rose to near normal. All crops need dry and still warmer weather, but the pattern of recent weeks does not yet seem to be changing.



**SOUTHEAST ASIA.** Rainfall increased over Thailand, with most areas benefiting from above-normal amounts. Especially heavy totals in the north will boost reservoir levels. The early (dry season) rice crop in the Central Plain north of Bangkok should be nearly mature, and would be helped by drier weather, but the abundant rainfall this week will have a net positive impact on crops.

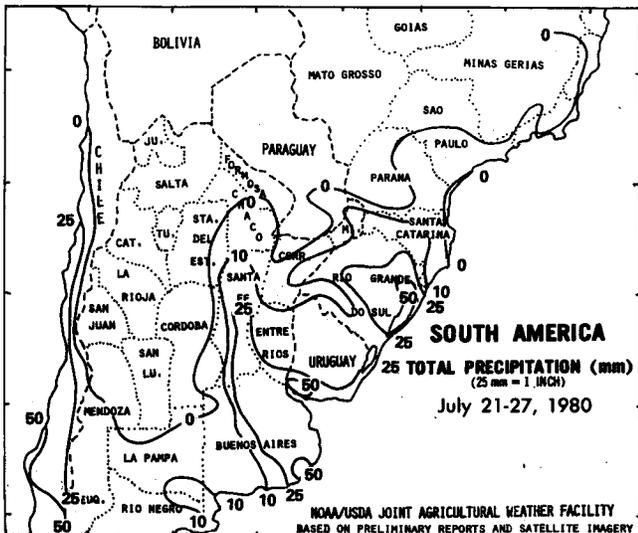
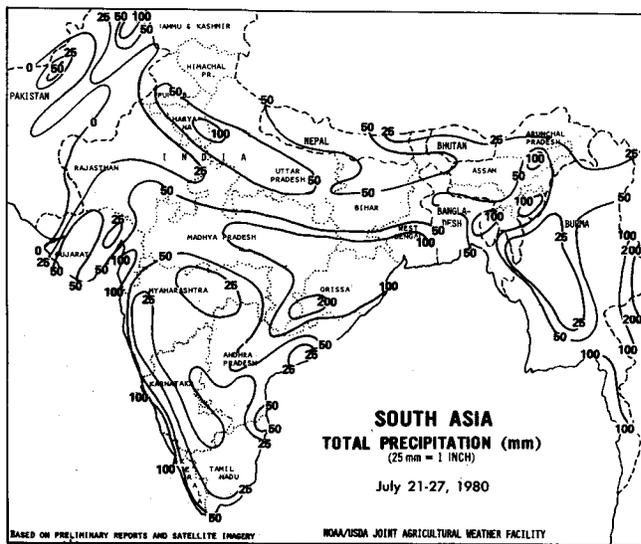
**AUSTRALIA.** Beneficial rains continued in many winter grain areas, with crops in a state of near-dormancy. A notable exception was northeastern New South Wales and southeastern Queensland, where insufficient rainfall followed planting. Crop moisture needs should now be minimal, but early development in some areas was probably below normal, and in some parts of Queensland, sowing may not have been successfully completed.



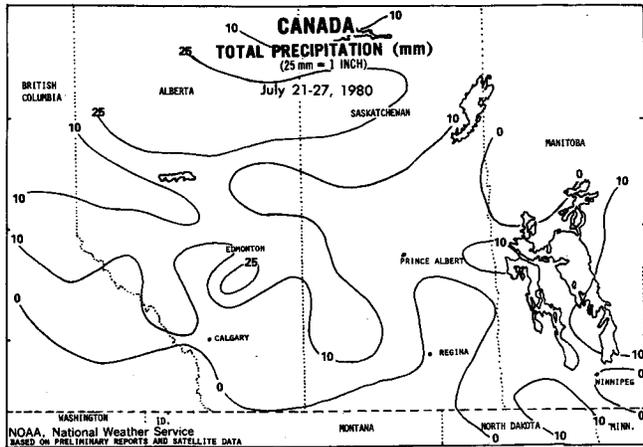


**CHINA.** Drier weather advanced into the Yangtze River basin, a real break in the wet weather which has persisted since early June. This should allow crops to recuperate somewhat from the problems of excess water. Typhoon Joe moved in over the southern coast, but rainfall totals stayed mostly below normal. Typhoon Kim was advancing into Guangdong on Sunday. In the north, a front advancing from the northwest late in the week caused a return of wet weather to the Manchurian Valley, and although many locations may be too wet for good crop development, the net effect is beneficial.

**SOUTH ASIA.** Heaviest rainfall shifted southward into central India, but abundant near-normal amounts continued across the north and into Bangladesh. Flooding reports now coming in reflect the heavy rains of recent weeks. Overall, however, most crops should be in good condition. Rainfall has resumed in western and southwestern areas, and only in small portions of Tamil Nadu should soil moisture be in short supply.

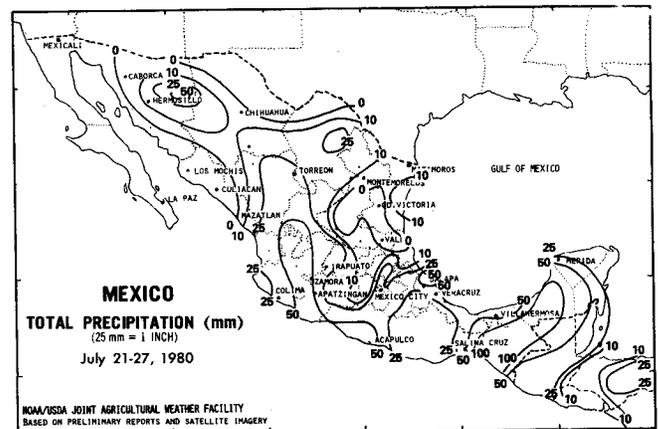


**SOUTH AMERICA.** Rainfall in eastern portions of Argentina's winter grain belt increased substantially, with many above-normal amounts reported. Soil moisture should be adequate over most of the belt, with dry soils causing minor concern only in some western areas. In Brazil, rainfall increased over most of the winter grain belt. Totals remained less than normal, but this moisture added to previous weeks' rains should keep the near-dormant crop in good condition.



**CANADA.** A slow-moving front produced showers over much of the grain belt, but totals remained generally light. The moisture served as a reasonably good follow-up to the previous week's beneficial rains. Dry areas in eastern Saskatchewan had received the greatest amounts during the previous week. Crops were reportedly much improved, especially the later planted fields, but substantial yield reductions were still anticipated in Saskatchewan and Manitoba. Only in Alberta were normal yields expected.

**MEXICO.** Showers continued in a pattern similar to the previous weeks' but amounts slackened to somewhat below normal. The rains maintained adequate soil moisture for maize, which is now flowering in southern crop areas to the west of Mexico City. The showers also spread to the northeast, but although they eased conditions to some degree, dryness still plagues crops there. The northeast was the only region with substantially above-normal temperatures, reflecting the lack of moisture.



(continued from page 12)

**WISCONSIN:** Temperatures 3° below normal. Highs in 70's and 80's, with a few 90's central areas. Lows ranged from 40's to 60's. Extremes: 94 and 42°. Rainfall totaled 0.50 to 1.50 in. except less than 0.50 in. west central.

**Fieldwork:** 6.0 days suitable. Crops good, especially where adequate rainfall received. Corn 55% silked, 1979 20%, normal 35%. Some corn on sandy soils hurt by moisture shortage, most corn good to excellent. Early plantings of soybeans in bloom, crop good condition. Small grains such as winter wheat, barley, rye, and early oats being harvested. Oats 5% harvested, 1979 1%, normal 7%. Small grains good, some fields lodged by July storms. Second crop hay 50% harvested, 1979 35%, normal 28%. Third crop has nice start south where second crop harvested. Pasture conditions near normal. Tobacco crop growing well. Cherry harvest underway. Pea harvest ending, some late acreage abandoned due to heat forcing maturity. Sweet corn harvest to begin soon. Harvest con-

tinuing for early potatoes, snap beans, cucumbers, beets, and other vegetables. Topsoil moisture short to adequate.

**WYOMING:** Temperatures 1 to 2° above normal. Precipitation above normal over southeast, within 0.20 in. of normal elsewhere.

Average 7.0 days suitable for fieldwork. Topsoil moisture short. Winter wheat mature 91%; harvested 60%. Spring wheat: Turning color 78%; mature 34%; harvested 10%. Oats: Turning color 62%; mature 20%; harvested 5%. Barley: Turning color 72%; mature 43%; harvested 8%. Row crops mostly good to excellent condition. Corn 43% tasseled. Dry beans 60% in bloom. Potatoes 62% in bloom. First cutting alfalfa 91% complete, second cutting 18%. Some disease problems in Big Horn Basin. Other hay 62% harvested. Livestock contracted for fall: Cattle 8%; calves 19%; lambs 24%. Stock water mostly adequate.

**CROP PROGRESS**

FOR WEEK ENDING JULY 27, 1980

	CORN % SILKING		
	1980	1979	AVG.
COLO	31	18	NA
GA	2/	2/	2/
ILL	95	72	82
IND	75	55	65
IOWA	82	47	71
KANS	NA	NA	NA
KY	80	65	78
MICH	30	20	46
MINN	79	20	65
MO	82	63	68
NEBR	70	45	65
N C	89	79	NA
OHIO	75	75	NA
PA	NA	NA	NA
S DAK	40	19	39
VA	70	NA	NA
WIS	55	20	35

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

	SOYBEAN % BLOOMING		
	1980	1979	AVG.
ALA	40	40	41
ARK	23	NA	NA
GA	35	NA	NA
ILL	83	69	73
IND	75	60	60
IOWA	86	72	79
KANS	45	30	NA
KY	40	30	37
LA	39	43	NA
MICH	37	35	39
MINN	86	64	82
MISS	55	45	47
MO	58	35	45
NEBR	85	NA	NA
N C	25	13	NA
OHIO	65	85	NA
S C	17	40	33
TENN	40	37	47

18 STATES 61 NA NA

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

	COTTON % SQUARING		
	1980	1979	AVG.
ALA	97	94	93
ARIZ	99	NA	NA
ARK	100	NA	NA
CALF	85	2/	NA
GA	2/	2/	2/
LA	100	95	NA
MISS	98	98	96
MO	99	100	89
N MEX	100	100	100
N C	90	83	NA
OKLA	70	60	75
S C	99	98	95
TENN	98	91	95
TEX	96	81	NA

14 STATES 94 NA NA

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

	CORN % DOUGH		
	1980	1979	AVG.
COLO	0	0	NA
GA	92	NA	NA
ILL	25	8	26
IND	15	NA	NA
IOWA	NA	0	5
KANS	15	10	15
KY	1/	1/	1/
MICH	0	0	2
MINN	0	0	5
MO	0	0	10
NEBR	5	0	NA
N C	68	51	NA
OHIO	10	5	10
PA	NA	NA	NA
S DAK	0	0	0
VA	30	NA	NA
WIS	0	0	0

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

	SOYBEAN % SETTING PODS		
	1980	1979	AVG.
ALA	16	18	18
ARK	12	NA	NA
GA	9	NA	NA
ILL	35	26	37
IND	20	10	25
IOWA	42	24	41
KANS	5	10	15
KY	1/	1/	1/
LA	17	22	NA
MICH	2	3	13
MINN	22	3	28
MISS	18	14	13
MO	16	6	9
NEBR	30	15	25
N C	NA	NA	NA
OHIO	25	30	50
S C	0	4	1/
TENN	10	11	13

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

	COTTON % SETTING BOLLS		
	1980	1979	AVG.
ALA	68	48	62
ARIZ	90	NA	NA
ARK	91	70	76
CALF	25	33	NA
GA	96	98	94
LA	86	76	NA
MISS	69	52	54
MO	70	33	63
N MEX	50	45	50
N C	74	62	NA
OKLA	10	5	20
S C	91	88	85
TENN	65	30	44
TEX	46	38	NA

14 STATES 51 NA NA

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

	SORGHUM % HEADED		
	1980	1979	AVG.
COLO	0	0	NA
KANS	15	10	15
MO	45	24	39
NEBR	40	15	30
OKLA	35	15	40
S DAK	19	10	10
TEX	69	67	NA

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

	RICE % HEADED		
	1980	1979	AVG.
ARK	12	NA	NA
CALF	1/	1/	NA
LA	70	62	NA
MISS	15	16	20
TEX	100	100	NA

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

	WINTER WHEAT % HARVESTED		
	1980	1979	AVG.
CALF	95	95	NA
COLO	92	80	88
IDA	4	10	4
ILL	99	100	100
IND	100	95	100
KANS	100	96	100
MO	100	100	100
MONT	20	5	5
NEBR	99	85	90
OHIO	95	90	95
OKLA	100	100	100
OREG	14	35	NA
S DAK	99	16	68
TEX	100	100	100
WASH	8	20	NA

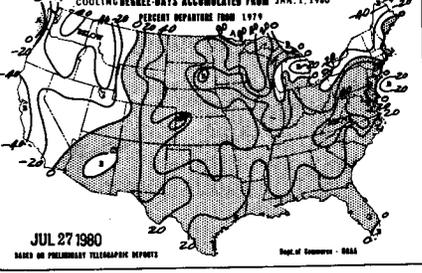
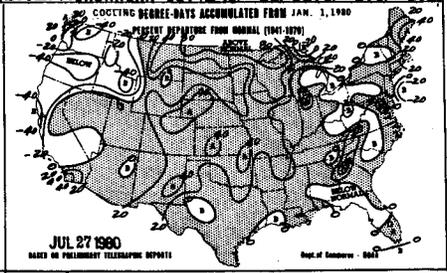
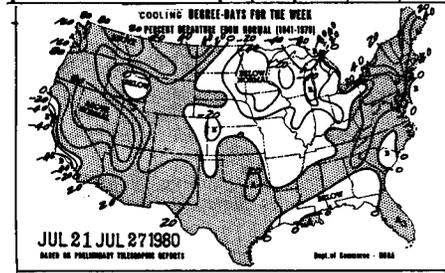
THESE 15 STATES PRODUCED 90% OF THE 1979 WINTER WHEAT CROP.

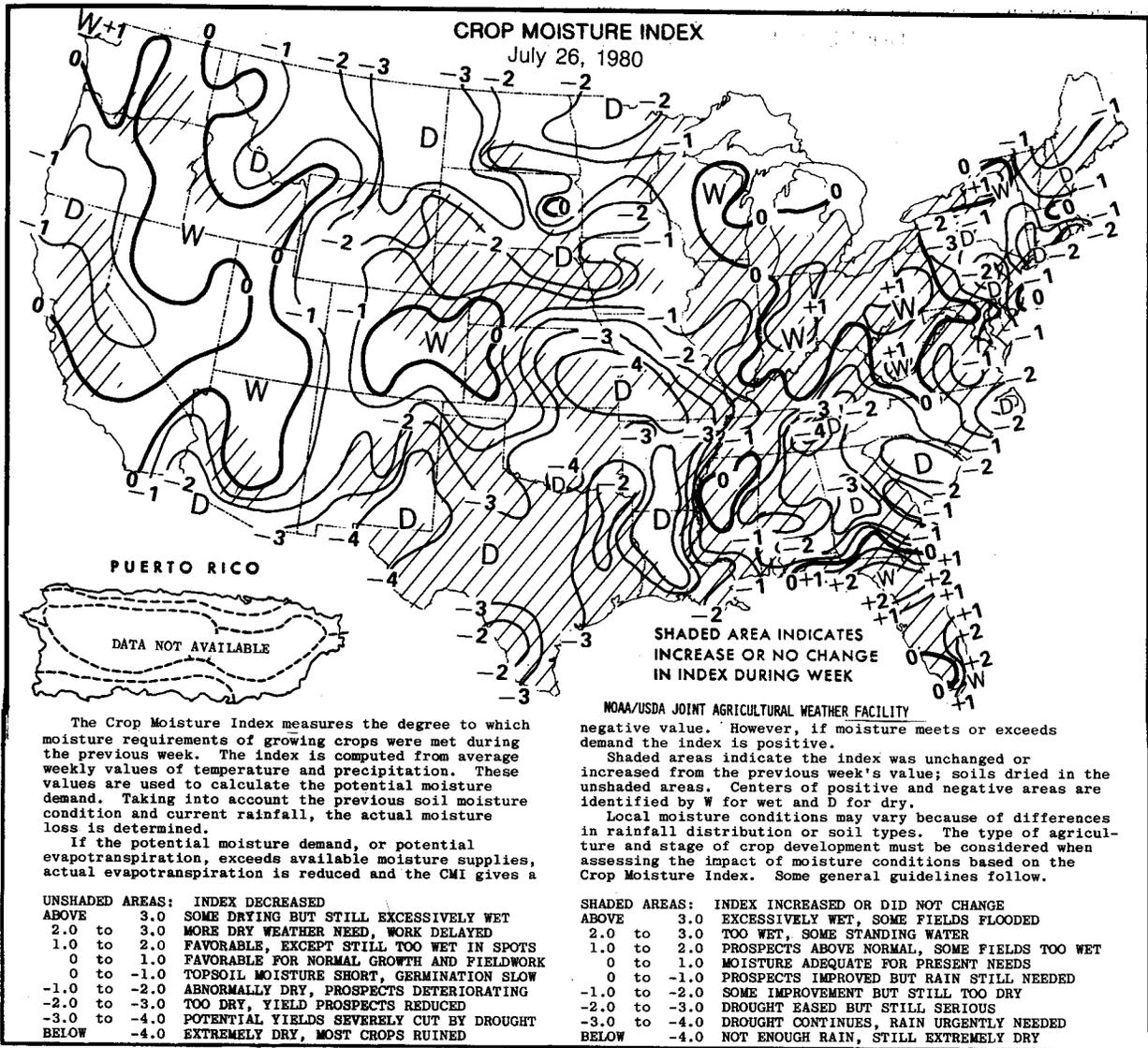
1/ LESS THAN 5%  
2/ GREATER THAN 95%  
NA - NOT AVAILABLE

COOLING DEGREE DAYS (BASE 65°) FOR WEEK ENDING JUL. 27, 1980.

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

Table with columns for STATES AND STATIONS, WEEKLY TOTAL DEPARTURE\*, SEASONAL ACCUMULATION + DEPARTURE\* FROM 1979-80, and similar columns for the second set of stations. Lists various states and their major cities with corresponding cooling degree day data.





COOLER WEATHER IN MUCH OF THE UNITED STATES HAS LOWERED CROP MOISTURE DEMAND. AT THE SAME TIME, WIDESPREAD SHOWERS IN THE CENTRAL AND EASTERN UNITED STATES HAS PRODUCED POSITIVE CHANGES IN THE CROP MOISTURE INDEX. HOWEVER, MORE RAIN IS NEEDED IN MOST OF THE DRY AREAS. SHOWERS WERE SO SCATTERED ON THE LIGHT SOILS OF CENTRAL GEORGIA THAT LITTLE IMPROVEMENT WAS NOTED. THE DRY AREAS IN THE PLAINS NEED MUCH MORE RAIN BEFORE THE DRY SPELL IS ENDED.

The Weekly Weather and Crop Bulletin is jointly prepared by the U.S. Department of Commerce, National Oceanic and Atmospheric Administration (NOAA) and the U.S. Department of Agriculture (USDA). Publication began in 1872 as the Weekly Weather Chronicle. It is issued under general authority of the Act of January 12, 1895 (44USC 213), 53d Congress, 3d Session. NOAA is responsible for managing, printing, and distributing the Bulletin. The contents may be reprinted freely, with proper credit.

Annual subscription: \$13 domestic and \$18 foreign airmail, checks drawn on U.S. banks or international money orders in U.S. funds... payable to U.S. Department of Commerce, NOAA. Order from the NOAA/USDA Joint Agricultural Weather Facility, USDA South Building, Room 3526, Washington, DC 20250.

U.S. Department of Commerce  
National Oceanic and Atmospheric Administration  
National Weather Service/Climate Analysis Center  
Managing Editor.....Don Haddock  
Meteorologists.....Lyle Denny  
Ray McInturff  
Jim Williams  
Meteorological Technician.....Wes Byrd  
Subscriptions.....Thelma Elis

U.S. Department of Agriculture  
Economics, Statistics, and Cooperatives Service  
Editor/Writer.....Jim Carlin  
Agricultural Statistician.....Bill Blackson  
World Food & Agricultural Outlook & Situation Board  
Agricultural Weather Analysts.....Laras Lambert  
Ray Motha

NOAA/USDA Joint Agricultural  
Weather Facility  
USDA South Bldg., Room 3526  
Washington, D.C. 20250

# IMMEDIATE - U. S. Weather Report

This Report Will be Treated in All Respects as Letter Mail

POSTAGE AND FEES PAID  
U.S. DEPARTMENT OF COMMERCE

210



## FIRST CLASS MAIL

### Average Monthly Weather Outlook

