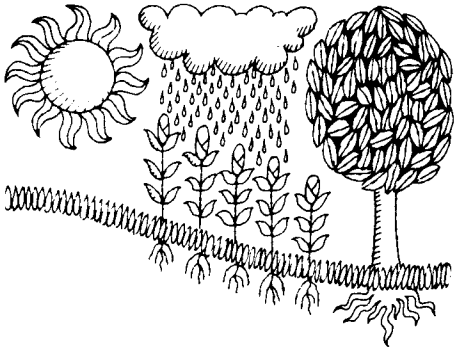

WEEKLY WEATHER AND CROP BULLETIN

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

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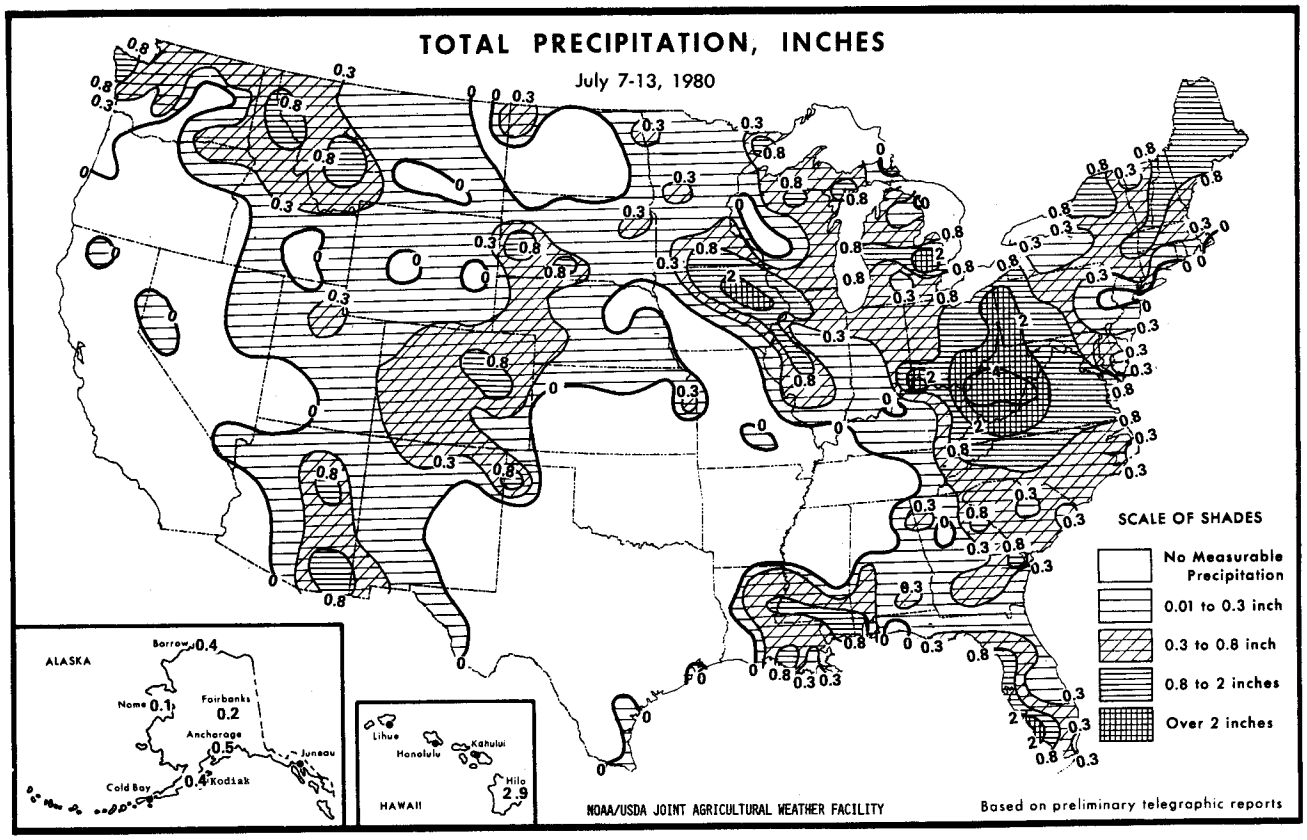


National Weather Summary

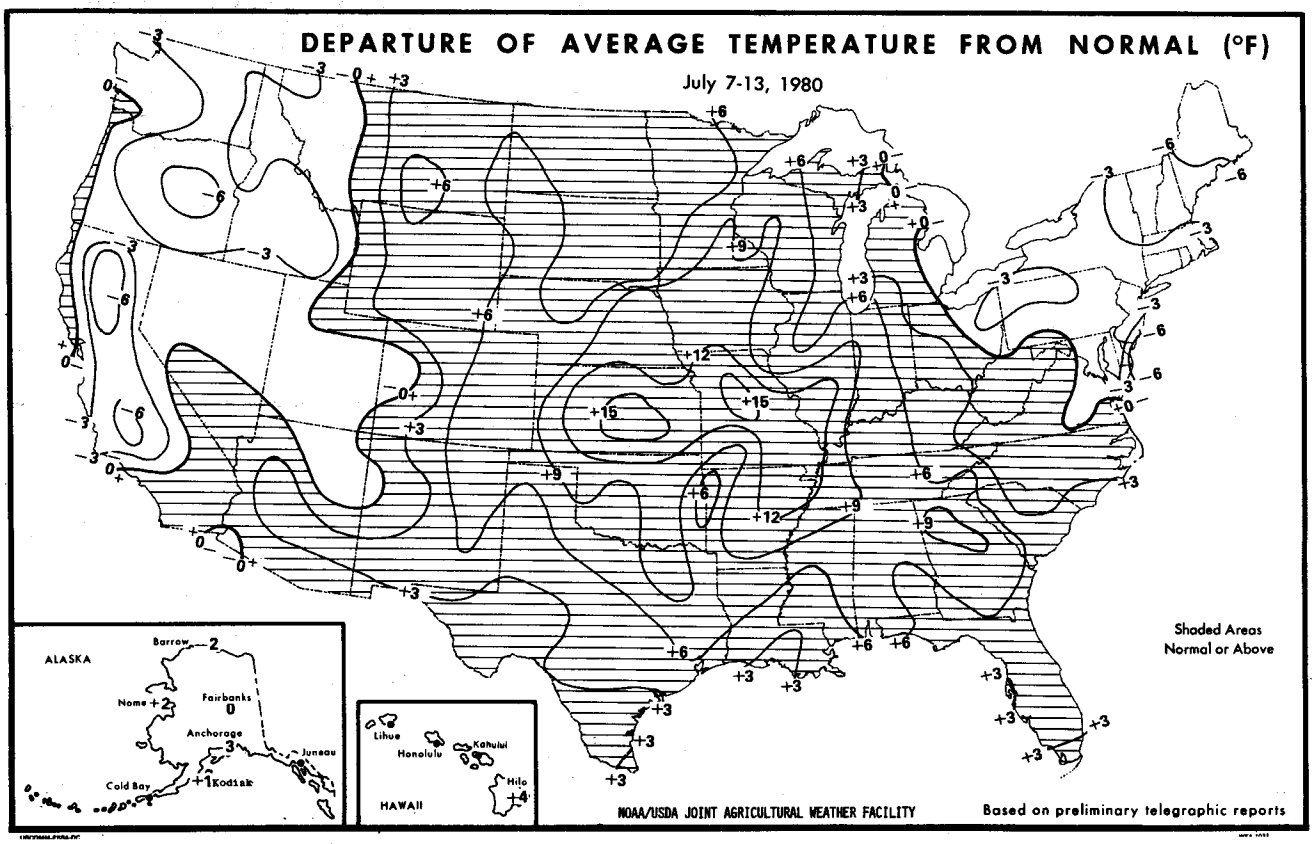
July 7 - 13

HIGHLIGHTS: The heat wave that dominated the southern Plains in early June spread to the central Plains late in the month, and has expanded into the northern Plains and the Southeast. Temperatures averaged 9 to 15 degrees above normal. Many records were broken for the highest temperatures as well as for duration of the heat. Deaths totaled over 550--doubling over the weekend. Millions of chickens died from the prolonged heat and humidity. The heat wave reached into the southern fringes of the Corn Belt where corn tasseling, a heat sensitive stage, is just beginning.

Unseasonably mild weather continued in the Pacific Northwest and New England. Heavy rains fell in the northeastern quarter of the Nation, while little or none was measured in the southern Plains and Southwest. Elsewhere, light to moderate rains fell. Severe weather, with tornadoes, damaging winds, hail, and localized flooding, surged over the Ohio Valley during midweek.

MONDAY...A stationary large high pressure system aloft over the southern and central Plains and lower Mississippi Valley maintained the record-breaking heat wave. The heat was centered in Kansas and Nebraska at 101° to 106°, but 100-degree temperatures extended as far east as Alabama and Tennessee and northward into Nebraska. In contrast, temperatures were unseasonably mild in New England and the Northwest. A dissipating front triggered showers across the Southeast.

Heavy thunderstorms produced some damaging wind and hail along the central Gulf Coast. Widespread rains and some severe weather developed in the eastern Great Lakes in advance of a warm front. Light showers dotted the central Rockies and Great Basin in association with a cool front.



TUESDAY...Cooler, drier air moved into the northern Plains, while unseasonably hot weather maintained its hold on the central Plains and southern third of the Nation. The Plains heat wave centered in Kansas with readings of 104° to 108°, but the eastern part of the heat reached into Tennessee with 100-degree temperatures. A cool front moving through the central Mississippi Valley and the lower Great Lakes produced heavy downpours eastward into New England. Severe weather developed with strong winds, hail and localized flooding from Iowa to Virginia, and a tornado touched down in Kentucky. Light showers continued over the Great Basin while developing over the northern Rockies. A few sprinkles fell in the northern Plains.

WEDNESDAY...The high pressure cell aloft over the central Plains perpetuated the heat wave. A front, becoming stationary from the mid-Atlantic Coast to the central Mississippi Valley, triggered heavy rains averaging 0.5 to 3 inches from Iowa to Virginia. Severe weather with damaging winds, hail, and local flooding dotted the Ohio Valley. Tornadoes touched down in Indiana, Ohio, and West Virginia. Light showers fell over the Pacific Northwest along the Continental Divide from Montana to Arizona and over a few parts of the upper half of the Plains.

THURSDAY...The heat wave, with record-breaking 100-degree temperatures, expanded to the Southeast Coast and through the northern Plains. Hottest temperatures in the Plains were centered in Kansas with 106° to 110° and in North Dakota with 101° to 109°. Thunderstorms continued from Missouri through the Ohio Valley to Virginia and southward to Georgia. Some tornadoes were reported. Heavy rain again doused West Virginia. Some points in the southern part of the State measured from 2 to 3 inches. Thunderstorms stretched from Colorado to Minnesota and upper Michigan. Meanwhile, out West, scattered thunderstorms in Montana produced some wind damage.

FRIDAY...A cold front moving through the northern Plains moderated temperatures slightly, but highs still reached into the nineties. The hottest weather remained in Kansas. High temperatures at Wichita, Kans., for the previous 18 days have averaged 111°. One-hundred-plus temperatures reached into southern Minnesota and southeastward into Georgia. Precipitation was generally light over much of the Nation. Some thunderstorms reached from the upper Ohio Valley into New England. In addition, scattered thunderstorms reached from Minnesota and the upper Great Lakes to western Tennessee.

SATURDAY...A weak frontal system extended from the mid-Atlantic States to a low pressure center in northern Illinois, into Kansas and northwestward. Temperatures were still quite warm behind the front, but the contrast caused thunderstorms along and ahead of the front and north of the low center. Hail and high winds accompanied the storms, which reached as far south as Georgia. The hot weather covered the entire southern half of the Nation and extended northward into the northern Plains. The heat center hovered over Kansas where Wichita reached 112°.

SUNDAY...The weak frontal system moved to Georgia, extending northwestward to a low center in North Dakota and southwestward into Utah. The high temperatures reached across the South and into North Dakota. Thunderstorms were widely scattered along and ahead of the front, but some reached heavy intensity. Tornadoes hit in Nebraska and North Dakota. Some severe weather developed in the northern Mississippi Valley. There was not as pronounced a heat center as on previous days, although Wichita still was about the hottest point with 110°. Temperatures ranged over 105° from South Dakota to Texas and eastward to Georgia.

National Agricultural Summary

July 7 - 13

HIGHLIGHTS: Blistering heat with little, if any, precipitation for the third consecutive week further stressed crops and livestock in the south central and central Plains States. Temperatures averaged as much as 15 degrees above normal in these areas. Below-normal temperatures were limited to the Northeast and parts of the West. Rainfall, mostly from showers and thunderstorms, fell mainly in the North and South Atlantic States and in the east north central region of the Nation. Most areas of the Nation had 5 to 7 days suitable for fieldwork, except in the South Atlantic States where only 2 to 6 days were suitable and in the east north central States where 4 to 6 days were available. Pastures deteriorated rapidly under the hot, dry conditions and generally rated only fair. Winter wheat harvest advanced to 71% complete, well ahead of last year's 57%. Spring wheat heading reached 83%, compared with only 52% a year earlier and the average of 74%. Sorghum heading advanced to 24% and rice heading to 25%. Cotton was 68% squared and 23% of the crop had set bolls. Haying advanced rapidly, although dry conditions limited regrowth. Corn tasseling and soybean bloom became widespread in major production areas. Sorghum heading advanced into Oklahoma; harvest was underway in southern Texas. Fruit harvests moved northward into New Jersey. Vegetable growers in southern areas prepared land for planting later in the year as harvests declined. In northern areas, vegetable growers harvested increasing supplies of summer crops.

CORN: Corn was in fair to mostly good condition in major production regions. However, the condition of the crop continued to decline due to the hot, dry weather in some areas. Tasseling became widespread in northern production regions, and silking was well advanced in southern regions of the Nation. Some fields in the extreme South reached the dough stage, and a few fields advanced to the dent stage. Growth ranged from an average of 35 inches in Michigan to 66 inches in Illinois, up to 11 inches more than last year and slightly more than average.

SOYBEANS: Soybean planting on double-cropped land neared completion. In the Southeast, double-cropped soybeans were planted after timely rains fell. Blooming became widespread and averaged 27% in the major producing States, well ahead of last year but slightly behind normal. Early-planted soybeans began to set pods. Progress ranged from 8% in Louisiana to 14% in Illinois. In Indiana, plant height averaged 14 inches and in Ohio 15 inches, slightly behind last year and the average. In the southern Plains, soybean pod setting and development is slow and irregular due to heat stress.

SMALL GRAINS: Winter wheat combining moved actively in all major States except Idaho, Montana, and Washington. Progress ranged from less than 5% in Oregon to 98% in Kansas. Harvesting in the 15 major States reached 71%, well ahead of last year's 57% but slightly behind average.

Spring wheat heading in the five major States advanced to 83%, compared to only 52% a year earlier and the average of 74%. The extreme heat prematurely advanced the ripening of small grains. Some grain fields continue to be plowed up, cut for hay, or grazed in the northern Plains.

COTTON: Development continued to lag recent years; however, good weather speeded growth. Squaring in the 14 major States was 68% complete. Boll set got underway in all areas except Oklahoma. Progress reached 72% in Georgia. In Texas, dryland fields were seriously affected by the heat wave. Stands showed slow growth with some fields shedding bolls. Irrigated fields remained in good condition; insect damage was light.

OTHER CROPS: Grain sorghum heading advanced northward into Oklahoma where 10% of the crop was headed. Harvest was underway in Texas with 28% harvested, compared with an average of only 17%. Fields were deteriorating in most production areas due to the heat and dry weather. Development is slow with some fields maturing early with light heads.

Rice heading reached 25% in the five major States. Heading was most advanced in Louisiana and Texas where 51% and 83%, respectively, was headed. In Texas, 50% of the rice began to show color change. In Louisiana, harvest was just underway.

Growers finished peanut planting in Texas. Cultivation continues with light grasshopper damage reported in some areas.

Tobacco harvesting reached 28% in Georgia, slightly behind normal. Blue mold continues to present problems for Kentucky and Tennessee growers. Topping and sucker control activities began in producing areas.

Potato growth in Idaho advanced rapidly with 40% closing middles. In Maine, warmer weather is needed to hasten growth.

FRUITS AND NUTS: Fruit harvests moved northward into New Jersey. The sweet cherry harvest advanced throughout all northern production areas, and the tart cherry harvest started in Michigan.

California pecans and pistachios progressed normally while almonds and walnuts sized well. Fig picking got underway and the Cling peach and Bartlett pear harvests got started. Nectarines and plums continued to be harvested with good quality and volume.

Florida citrus groves showed stress from the extreme heat and short moisture. Irrigation needs are high. Foliage growth is slowing in dry areas. The Arizona citrus harvest was completed, but the grape harvest continued active.

VEGETABLES: Northern growers harvested increasing supplies of summer crops. In southern areas, growers prepared land for planting later in the year as harvest declined.

In Florida, the spring vegetable harvest wound down to completion for most crops. Light supplies of sweet corn, eggplant, cucumbers, peppers, okra, and squash were available.

California growers harvested broccoli, cauliflower, carrots, cucumbers, lettuce, onion, potatoes, sweet corn, and tomatoes.

In Texas, prospects for all vegetables deteriorated with the quality and maturity affected by the hot, dry weather. In northern areas, most vegetables suffered severely from the heat. Limited supplies of squash, corn, cucumbers, tomatoes, okra, and peas were available. The onion harvest hit full swing, and the cabbage harvest continued active.

(continued on page 25)

Weather Data for the Week Ending July 13, 1980

States and Stations	Temperature °F						Precipitation					Relative Humidity, percent		Number of Days			
														Temperature °F		Precipitation	
	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	.01 inch or more	.50 inch or more
AL BIRMINGHAM	100	73	106	71	87	7	0	- 1.2	0	3.3	54	94	38	7	0	0	0
MOBILE	98	76	101	73	87	6	1.1	- 1.0	1.1	3.6	37	90	45	7	0	1	1
MONTGOMERY	97	75	101	72	86	5	0	- 1.2	0	2.7	44	91	42	7	0	0	0
AK ANCHORAGE	60	49	64	40	55	-3	.5	0	.3	3.6	189	85	68	0	0	3	0
BARROW	40	32	39	29	37	-2	.4	.2	.3	.9	129	80	78	0	3	2	0
FAIRBANKS	67	55	70	52	61	0	.2	- .2	.1	1.5	65	85	60	0	0	5	0
KODIAK	61	49	66	45	55	1	.4	- .4	.1	1.3	23	94	69	0	0	4	0
NOME	58	46	65	44	52	2	.1	- .4	.1	3.9	229	82	70	0	0	3	0
AZ FLAGSTAFF	83	54	91	48	68	3	.3	- .2	--	.7	50	72	27	1	0	0	0
PHOENIX	106	85	110	76	95	4	T	- .1	T	0	0	38	18	7	0	1	0
TUCSON	99	75	105	68	87	1	.7	.2	.6	1.0	100	55	22	7	0	2	1
WINSLOW	91	63	97	56	77	-1	1.6	1.4	1.6	1.8	300	--	--	5	0	2	1
YUMA	106	79	111	77	93	0	0	0	0	0	--	55	25	7	0	0	0
AR FORT SMITH	102	72	104	70	87	5	0	- .8	0	3.2	62	91	27	7	0	0	0
LITTLE ROCK	106	81	108	79	93	12	0	- .8	0	.6	12	69	28	7	0	0	0
CA BAKERSFIELD	92	63	98	58	77	-6	0	0	--	0	0	--	28	6	0	0	0
EUREKA	63	54	65	53	59	3	T	0	0	.5	62	95	72	0	0	0	0
FRESNO	92	61	98	59	77	-4	T	0	0	0	0	56	21	6	0	0	0
LOS ANGELES	76	62	82	60	69	-4	0	0	0	0	--	83	48	0	0	0	0
RED BLUFF	88	59	95	56	73	-9	0	0	--	1.2	240	--	22	4	0	0	0
SAN DIEGO	79	67	83	65	73	4	T	0	0	0	--	84	58	0	0	0	0
SAN FRANCISCO	70	54	78	53	62	0	T	0	0	.1	50	88	52	0	0	0	0
STOCKTON	89	57	96	54	73	-4	0	0	--	.5	500	84	30	2	0	0	0
CO DENVER	90	65	94	63	78	5	1.5	1.1	.7	2.1	81	64	24	4	0	4	2
GRAND JUNCTION	91	63	96	56	77	-2	.4	.3	.2	1.0	167	58	21	4	0	2	0
PUEBLO	99	66	103	62	83	7	.3	- .1	.3	1.1	52	64	18	7	0	1	0
CT BRIDGEPORT	81	65	83	60	73	-1	0	- .7	0	3.5	92	79	56	0	0	0	0
HARTFORD	82	59	89	53	70	-2	T	- .8	T	4.3	90	79	39	0	0	1	0
DC WASHINGTON	88	71	93	66	79	0	.6	- .3	.5	2.9	59	77	53	2	0	3	1
FL APALACHICOLA	93	77	97	72	85	4	.7	- 1.1	.7	5.8	68	83	59	6	0	2	1
DAYTONA BEACH	95	75	100	72	85	4	.2	- 1.3	.2	5.7	61	89	50	7	0	1	0
FORT MYERS	94	78	95	73	86	4	2.4	.3	1.6	6.3	50	95	58	7	0	3	2
JACKSONVILLE	97	75	102	72	86	5	.2	- 1.4	.2	5.7	63	91	50	7	0	1	0
KEY WEST	90	82	91	80	86	2	.3	- .7	.3	3.6	56	76	58	5	0	2	0
MIAMI	92	76	95	75	84	2	.2	- 1.4	.1	5.0	42	96	56	7	0	2	0
ORLANDO	96	75	99	74	86	5	.3	- 1.7	.3	5.6	53	82	50	7	0	3	0
TALLAHASSEE	97	74	101	69	86	5	.1	- 2.0	.1	6.0	58	97	45	7	0	1	0
TAMPA	92	78	94	73	85	3	1.1	- .8	1.1	5.3	53	93	63	7	0	1	1
WEST PALM BEACH	95	75	97	74	85	3	.6	- .9	.6	5.6	51	95	53	7	0	1	1
GA ATLANTA	100	77	105	71	89	10	0	- 1.1	0	4.5	79	86	42	7	0	0	0
AUGUSTA	100	74	107	71	87	7	.5	- .7	.5	4.9	84	91	40	7	0	1	0
MACON	102	75	108	70	89	8	.2	- .9	.1	2.3	40	92	35	7	0	2	0
SAVANNAH	99	75	104	71	87	6	T	- 1.8	T	4.0	44	91	46	7	0	2	0
HI HILO	--	--	--	--	79	4	2.9	.9	--	12.6	126	--	--	-	-	-	-
HONOLULU	88	74	90	72	81	1	T	- .1	T	.2	33	82	53	1	0	1	0
KAHULUI	--	--	--	--	81	--	T	--	T	--	--	--	--	-	-	-	-
LIHUE	--	--	--	--	--	--	--	--	--	--	--	--	--	-	-	-	-
ID BOISE	88	55	95	49	71	-3	T	- .1	T	.3	23	60	19	3	0	0	0
LEWISTON	85	58	94	54	72	-2	.5	.3	.3	1.8	82	83	34	3	0	5	0
POCATELLO	83	52	89	45	68	-4	T	- .1	T	1.5	107	75	26	0	0	1	0
IL CAIRO	--	--	--	--	--	--	--	--	--	--	--	--	--	-	-	-	-
CHICAGO	91	66	94	59	78	6	.5	- .5	.5	3.4	59	85	46	5	0	1	0
MOLINE	92	71	97	64	82	8	.3	- .8	.3	5.2	81	84	58	6	0	1	0
PEORIA	93	71	96	65	82	7	T	- .9	T	7.4	137	89	60	7	0	0	0
ROCKFORD	90	68	99	60	79	6	.7	- .3	.5	6.3	98	95	54	3	0	2	0
SPRINGFIELD	96	76	99	72	86	10	.8	- .1	.8	2.2	38	90	60	7	0	1	1
IN EVANSVILLE	94	77	99	72	86	8	.1	- .8	0	9.2	184	78	51	6	0	0	0
FORT WAYNE	86	64	93	45	75	2	.6	- .3	.6	2.8	52	92	58	1	0	2	1
INDIANAPOLIS	93	71	98	64	82	7	.3	- .6	.3	4.3	74	89	52	7	0	1	0
SOUTH BEND	89	67	96	64	78	6	.6	- .2	.6	3.8	73	86	40	3	0	2	1
IA BURLINGTON	93	72	96	67	82	7	.2	- .7	.1	8.0	127	--	--	7	0	2	0
DES MOINES	95	76	98	72	86	10	T	- .8	T	5.2	81	79	49	7	0	0	0
DUBUQUE	89	70	98	59	79	8	1.1	.1	.7	6.5	92	94	73	2	0	2	0
SIOUX CITY	99	71	106	62	85	10	T	- .8	T	1.2	20	79	42	7	0	0	0
KS CONCORDIA	106	76	109	72	91	14	T	- .8	T	1.9	30	58	22	7	0	1	0
DODGE CITY	106	76	108	72	91	12	T	- .7	T	4.0	87	55	21	7	0	0	0
GOODLAND	100	66	103	63	83	8	T	- .6	T	4.8	120	65	21	7	0	1	0
TOPEKA	103	77	107	71	90	12	T	- 1.0	T	.8	11	73	31	7	0	0	0
WICHITA	110	81	112	79	95	15	0	- 1.1	0	1.5	23	51	19	7	0	0	0
KY LEXINGTON	91	69	96	61	80	4	.1	- 1.0	.1	4.9	78	87	51	4	0	1	0
LOUISVILLE	94	76	99	67	85	8	T	- .9	.7	6.3	112	83	51	6	0	0	0

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

Weather Data for the Week Ending July 13, 1980

States and Stations	Temperature °F						Precipitation					Relative Humidity, percent		Number of Days			
														Temperature °F		Precipitation	
	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	.01 inch or more	.50 inch or more
LA BATON ROUGE	95	77	97	72	86	4	.7	- .8	0	6.0	94	85	50	7	0	1	1
LAKE CHARLES	97	75	98	74	86	4	0	- 1.5	0	1.4	18	90	45	7	0	0	0
NEW ORLEANS	97	77	100	75	87	5	.1	- 1.5	T	3.8	51	91	52	7	0	2	0
SHREVEPORT	102	77	104	75	90	7	0	- .7	0	2.6	58	84	34	7	0	0	0
ME CARIBOU	66	51	76	46	59	-6	1.4	.5	1.0	5.2	104	88	64	0	0	4	1
PORTLAND	75	52	80	50	63	-4	.6	0	.6	4.1	100	79	47	0	0	2	1
MD BALTIMORE	84	63	89	53	74	-3	.4	- .5	.3	4.4	83	75	43	0	0	2	0
MA BOSTON	81	63	88	60	72	-1	.4	- .2	.3	3.7	86	73	46	0	0	1	0
CHATHAM	73	58	79	57	66	-3	T	- .6	T	3.3	77	75	63	0	0	0	0
MI ALPENA	80	53	91	47	66	1	0	- .6	0	3.3	85	--	--	1	0	0	0
DETROIT	82	60	92	53	71	-1	.6	- .1	.3	7.3	159	86	56	1	0	3	0
FLINT	80	59	87	54	70	0	2.7	2.0	2.7	5.2	113	92	56	0	0	2	1
GRAND RAPIDS	85	62	89	55	74	2	.4	- .3	.1	5.0	106	74	60	0	0	3	0
HOUGHTON LAKE	81	54	88	50	68	1	.2	- .6	.1	2.9	60	84	54	0	0	2	0
LANSING	84	63	91	58	74	3	.1	- .5	.1	1.8	40	89	60	1	0	3	0
MARQUETTE	81	56	90	52	69	3	.4	- .3	.4	3.2	68	84	47	1	0	1	0
MUSKEGON	82	61	87	56	72	2	1.2	.6	.7	5.9	164	91	57	0	0	3	1
SAULT STE. MARIE	77	48	84	44	62	-1	T	- .6	T	4.2	95	96	49	0	0	0	0
MN DULUTH	86	56	95	49	71	6	T	- .9	T	1.6	27	92	37	2	0	1	0
INT'L FALLS	88	57	95	48	72	6	.1	- .8	.1	2.0	36	89	33	3	0	1	0
MINNEAPOLIS	94	68	100	62	81	9	.3	- .6	.3	4.9	89	81	34	6	0	1	0
ROCHESTER	91	66	98	62	78	8	.6	- .3	.6	2.5	40	89	52	3	0	2	0
SAINT CLOUD	91	61	97	55	76	6	.1	- .6	.1	5.2	90	88	--	3	0	2	0
MS JACKSON	101	74	103	71	87	6	.4	- .6	.4	2.2	43	94	42	7	0	1	0
MERIDAN	101	72	104	70	87	6	T	- 1.2	T	3.3	57	95	43	7	0	0	0
MO COLUMBIA	105	78	108	71	91	15	T	- .9	T	1.4	23	57	29	7	0	0	0
KANSAS CITY	102	78	104	76	90	13	.1	- 1.0	.1	3.4	45	70	33	7	0	1	0
SAINT LOUIS	100	79	103	76	90	11	.4	- .5	.4	4.9	80	83	44	7	0	1	0
SPRINGFIELD	100	71	102	69	86	8	0	- .9	0	3.6	57	82	33	7	0	0	0
MT BILLINGS	92	63	100	61	78	6	T	- .2	T	1.7	57	50	20	6	0	0	0
GLASGOW	91	60	100	54	75	5	.2	- .1	.1	2.7	79	64	26	4	0	2	0
GREAT FALLS	83	55	88	47	69	0	.2	- .1	.1	4.2	111	66	26	0	0	4	0
HAVRE	89	56	97	48	73	3	.1	- .3	.1	3.3	100	72	24	3	0	2	0
HELENA	79	53	83	47	66	-1	1.1	.8	.4	5.0	167	78	36	0	0	3	0
KALISPELL	75	49	86	42	62	-2	.5	.2	.2	3.3	110	95	52	0	0	3	0
MILES CITY	93	65	104	61	79	5	.3	- .1	.2	3.3	80	44	19	4	0	2	0
MISSOULA	78	50	84	43	64	-2	.5	.5	.2	3.3	54	91	43	0	0	3	0
NE GRAND ISLAND	101	71	106	68	86	10	T	0	T	4.1	186	74	37	6	0	1	0
LINCOLN	101	74	106	70	87	10	.1	- .7	0	3.6	55	83	39	6	0	0	0
NORFOLK	99	71	106	67	85	10	T	- .8	T	4.2	66	72	34	6	0	1	0
NORTH PLATTE	97	63	104	59	80	6	.3	- .4	.3	2.1	42	77	27	7	0	2	0
OMAHA	96	75	101	68	86	10	T	- .9	T	8.4	127	80	57	6	0	1	0
VALENTINE	97	62	107	58	80	6	.1	- .5	T	2.9	62	68	21	6	0	2	0
NV ELY	84	49	88	46	67	0	.1	0	.1	1.4	127	54	17	0	0	2	0
LAS VEGAS	103	77	109	71	90	0	.1	0	.1	.5	167	26	13	7	0	1	0
RENO	88	46	91	40	67	-3	.1	0	.1	.6	100	66	14	1	0	1	0
WINNEMUCCA	91	47	94	42	69	-2	T	- .1	T	.5	42	47	9	5	0	0	0
NH CONCORD	77	52	85	44	65	-5	.5	- .2	.4	3.5	74	81	51	0	0	2	0
NJ ATLANTIC CITY	79	57	83	47	68	-7	.5	- .4	.5	4.3	86	99	55	0	0	1	1
TRENTON	85	66	89	58	73	-1	.1	- 1.0	T	2.3	45	--	--	0	0	1	0
NM ALBUQUERQUE	98	65	101	60	82	3	T	- .3	T	0	0	57	19	7	0	1	0
ROSWELL	98	72	100	70	85	6	T	- .4	T	.3	15	--	--	7	0	0	0
NY ALBANY	81	58	85	52	69	-3	.6	- .1	.3	6.0	143	84	44	0	0	2	0
BINGHAMTON	80	56	85	49	68	-1	.3	- .5	.3	6.7	140	91	48	0	0	2	0
BUFFALO	78	57	83	53	68	-2	.2	- .4	.2	5.9	179	90	48	0	0	1	0
NEW YORK	83	66	86	63	75	-2	T	- .8	T	4.0	93	70	46	0	0	0	0
ROCHESTER	80	57	87	51	69	-2	.1	- .5	.1	6.8	189	88	49	0	0	1	0
SYRACUSE	81	56	88	52	69	-3	.1	- .6	.1	4.1	95	94	47	0	0	1	0
NC ASHEVILLE	91	67	93	62	79	6	.7	- .4	.7	5.6	95	95	55	6	0	1	1
CHARLOTTE	91	69	94	68	80	2	.7	- .4	.6	3.4	61	94	49	6	0	2	1
GREENSBORO	88	66	93	64	77	0	1.0	0	.4	4.7	82	92	53	3	0	5	0
HATTERAS	86	70	89	56	78	0	.2	- 1.1	.2	6.9	97	88	61	0	0	1	0
RALEIGH	88	68	93	64	78	1	.7	- .4	.4	6.1	109	--	58	3	0	4	0
WILMINGTON	94	74	99	67	84	4	.4	- 1.5	.2	4.3	48	91	50	6	0	2	0
ND BISMARCK	91	58	101	51	74	4	T	- .5	T	3.1	67	77	19	4	0	0	0
FARGO	90	61	102	53	75	5	.1	- .6	T	2.7	59	85	30	4	0	2	0
WILLISTON	94	57	109	52	76	6	.4	- .1	.3	2.3	55	75	24	5	0	2	0
OH AKRON-CANTON	80	57	86	52	69	-3	1.9	1.0	.7	6.6	132	97	54	0	0	4	1
CINCINNATI	89	67	97	57	78	3	3.4	2.4	2.6	7.8	142	91	58	3	0	2	2
CLEVELAND	82	57	92	48	69	-2	1.4	.6	1.1	4.2	87	93	50	1	0	4	1
COLUMBUS	85	67	93	55	76	2	1.8	.8	1.3	7.2	122	97	61	2	0	3	1
DAYTON	89	68	96	58	79	4	.2	- .6	.1	9.4	181	55	52	5	0	3	0
TOLEDO	83	61	92	50	72	0	.8	0	.4	4.9	102	87	60	2	0	3	0
YOUNGSTOWN	79	53	87	45	66	-5	2.1	1.2	2.0	5.7	116	84	46	0	0	2	1

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

Weather Data for the Week Ending July 13, 1980

States and Stations	Temperature °F						Precipitation					Relative Humidity, percent		Number of Days			
														Temperature °F		Precipitation	
	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	.01 inch or more	.50 inch or more
OK OKLAHOMA CITY	103	75	105	73	89	8	0	- .7	0	2.5	46	63	25	7	0	0	0
TULSA	104	83	106	81	93	11	0	- .9	0	5.5	89	63	30	7	0	0	0
OR ASTORIA	66	55	70	47	60	1	.1	- .1	.1	2.1	72	91	68	0	0	2	0
BURNS	81	44	87	39	62	-6	0	- .1	0	1.0	83	80	18	0	0	0	0
MEDFORD	86	52	92	48	69	-2	0	- .1	0	1.2	120	81	21	2	0	0	0
PENDLETON	83	55	93	50	69	-4	.7	.6	.7	1.9	158	--	29	1	0	1	1
PORTLAND	77	57	87	53	67	0	T	- .1	T	2.5	139	80	49	0	0	0	0
SALEM	78	49	87	44	64	-3	T	- .1	T	2.0	125	91	44	0	0	0	0
PA ALLENTOWN	85	62	88	53	73	-1	T	- 1.0	T	3.2	62	76	37	0	0	0	0
ERIE	76	56	81	48	66	-4	2.0	1.2	2.0	7.5	156	--	--	0	0	1	1
HARRISBURG	86	62	91	52	74	-2	.2	- .6	.2	2.8	62	93	41	1	0	1	0
PHILADELPHIA	86	66	89	58	76	-1	T	- .9	T	2.2	42	80	41	0	0	1	0
PITTSBURGH	82	61	89	53	72	0	2.8	1.9	2.3	7.3	149	96	55	0	0	3	1
SCRANTON	81	58	86	49	70	-2	.3	- .6	.3	5.6	112	85	44	0	0	2	0
RI PROVIDENCE	80	60	86	57	70	-2	.1	- .5	.1	4.4	119	79	44	0	0	1	0
SC CHARLESTON	94	75	100	71	85	4	.4	- 1.5	.4	4.0	42	94	55	6	0	1	0
COLUMBIA	97	71	103	68	84	3	.2	- 1.1	.2	3.0	50	91	46	6	0	1	0
GREENVILLE	95	71	98	64	83	5	.5	- .5	.5	7.5	127	91	50	6	0	1	1
SD ABERDEEN	91	61	100	53	76	5	T	- .7	T	2.9	59	84	34	5	0	1	0
HURON	90	62	97	57	76	3	.3	- .2	.2	7.9	168	90	46	5	0	1	0
RAPID CITY	92	64	99	60	78	6	1.1	.6	.9	6.0	128	65	26	3	0	2	1
SIOUX FALLS	92	65	100	57	78	5	T	- .7	T	3.6	64	82	44	5	0	1	0
TN CHATTANOOGA	100	74	105	65	87	8	T	- 1.2	T	2.8	48	86	41	7	0	0	0
KNOXVILLE	94	72	96	66	83	5	.4	- .7	.4	3.9	70	87	49	6	0	1	0
MEMPHIS	102	83	108	81	93	12	0	- .8	0	5.8	121	72	39	7	0	0	0
NASHVILLE	98	76	101	70	87	8	0	- .9	0	3.3	67	84	45	7	0	0	0
TX ABILENE	100	78	102	77	89	6	0	- .6	0	1.1	28	60	24	7	0	0	0
AMARILLO	98	70	99	66	84	5	0	- .7	0	1.3	28	53	21	7	0	0	0
AUSTIN	99	77	100	76	88	4	0	- .5	0	.3	8	90	35	7	0	0	0
BEAUMONT	96	76	98	73	86	3	0	- 1.3	0	.8	11	95	47	7	0	0	0
BROWNSVILLE	98	78	99	77	88	4	T	- .3	T	.1	3	86	45	7	0	1	0
CORPUS CHRISTI	96	75	97	74	85	1	.2	- .2	.2	.2	6	95	46	7	0	1	0
DEL RIO	102	77	105	76	90	3	0	- .3	0	.3	12	72	25	7	0	0	0
EL PASO	100	73	103	71	86	3	.2	- .2	.2	.2	15	51	18	7	0	3	0
FORT WORTH	106	80	107	78	93	9	0	- .4	0	1.3	34	66	23	7	0	0	0
GALVESTON	89	82	90	81	86	3	T	- 1.0	T	.4	7	84	69	1	0	1	0
HOUSTON	102	75	104	73	89	6	T	- .9	T	1.1	18	92	39	7	0	0	0
LUBBOCK	98	72	100	67	85	5	0	- .5	0	1.8	49	56	23	7	0	0	0
MIDLAND	98	71	100	69	84	2	0	- .4	0	1.6	70	61	22	7	0	0	0
SAN ANGELO	98	75	102	70	86	2	0	- .3	0	3.4	142	69	26	7	0	0	0
SAN ANTONIO	100	77	101	76	89	4	0	- .4	0	.5	14	88	32	7	0	0	0
VICTORIA	98	76	99	75	87	3	T	- .6	T	0	0	88	42	7	0	0	0
WACO	102	78	103	77	90	5	0	- .4	0	.3	9	77	29	7	0	0	0
WICHITA FALLS	108	79	109	76	93	8	0	- .5	0	.3	7	57	18	7	0	0	0
UT BLANDING	86	59	94	51	73	0	.1	- .1	.1	.1	14	55	18	3	0	2	0
SALT LAKE CITY	90	63	95	56	77	0	.3	.1	.3	1.7	100	55	20	4	0	2	0
VT BURLINGTON	77	54	89	47	66	-4	.3	- .5	.3	2.4	50	88	46	0	0	2	0
VA LYNCHBURG	88	63	92	55	76	0	1.6	.7	.6	3.1	62	98	55	2	0	4	2
NORFOLK	89	69	97	65	79	1	.9	- .3	.8	2.3	40	89	46	3	0	5	1
RICHMOND	89	67	96	59	78	0	1.4	.2	.8	2.1	38	97	53	2	0	4	1
ROANOKE	89	65	93	57	77	2	3.1	2.3	1.8	5.0	104	92	40	3	0	4	3
WA COLEVILLE	78	52	90	45	65	-3	.7	.7	.6	2.3	287	--	--	1	0	3	1
OMAK	--	--	--	--	--	--	--	--	--	--	--	--	--	-	-	-	-
QUILLAYUTE	65	51	73	46	58	-1	1.2	.6	.8	6.3	143	94	67	0	0	4	1
SEATTLE-TACOMA	70	53	79	52	62	-3	.4	.2	.2	2.2	116	87	59	0	0	2	0
SPOKANE	81	52	92	48	67	-3	.2	.1	.1	1.2	71	88	34	1	0	3	0
WALLA-WALLA	84	59	95	53	71	-3	.3	.2	.2	1.0	71	75	32	1	0	4	0
YAKIMA	85	52	94	47	69	-2	T	- .1	T	1.1	122	79	26	1	0	0	0
WV BECKLEY	82	62	86	51	72	2	2.8	1.8	1.4	7.2	118	92	50	0	0	5	3
CHARLESTON	87	65	95	57	76	1	4.6	3.4	2.0	8.3	157	98	54	1	0	4	2
HUNTINGTON	90	68	98	59	79	4	4.2	3.2	1.4	8.5	167	90	51	3	0	4	4
PARKERSBURG	86	66	94	58	76	1	2.1	1.1	1.4	6.0	103	96	57	1	0	3	1
WI GREEN BAY	85	62	90	59	74	5	.4	- .3	.3	4.3	91	82	52	1	0	2	0
LA CROSSE	96	73	104	65	85	12	0	- .9	0	3.7	62	89	43	7	0	0	0
MADISON	91	63	99	57	77	7	.4	- .5	.4	4.6	77	89	48	4	0	1	0
MILWAUKEE	85	63	98	60	74	4	.5	- .3	.3	5.3	106	86	52	2	0	3	0
WY CASPER	91	58	96	53	75	4	.1	- .1	.1	.5	26	53	17	5	0	2	0
CHEYENNE	88	61	91	57	74	5	.3	- .1	.2	.8	25	62	26	2	0	2	0
LANDER	89	59	93	53	74	4	T	- .2	T	.3	13	49	18	3	0	0	0
SHERIDAN	92	55	99	50	74	4	.2	- .1	.2	1.2	34	67	17	6	0	2	0
PR SAN JUAN	92	79	93	77	85	4	.2	1.4	.1	2.3	29	89	58	7	0	5	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: Hot and mostly dry. Temperatures 7° above normal.

Soil moisture very short to short. Fieldwork: 6.0 days suitable. Sorghum planted 94%, 89% 1979. Hay harvested 64%. Corn silked 74%, 75% 1979, 78% average. Corn dented 22%, 40% 1979, 27% average. Soybeans blooming 18%, 19% 1979, 19% average. Cotton squaring 84%, 81% 1979, 79% average. Cotton setting bolls 19%, 19% 1979, 25% average. Peanuts pegging 47%, 55% 1979, 68% average. Condition: Corn and pasture fair, soybeans, cotton, and sorghum fair to good, peanuts mostly good.

ALASKA: Lack of enough sunshine and dry days throughout railbelt slowed hay making. Days suitable for fieldwork ranged from 0 to 3.

Harvest first crop hay ranged 25 to 50% complete. Dairymen busy with grass silage. Small grain fields developed well with average height ranging from 18 to 37 in. Early fields 50 to 75% headed. Potato height averaged 10 to 16 in. Commercial vegetable growers harvesting radishes, lettuce.

Tanana Valley considerable cloudiness helped to keep temperatures cooler than average. Mostly light amounts of precipitation fell. Seasonal totals for the most part remain below normal.

Matanuska Valley considerable cloudiness with frequent periods of rain. Temperatures averaged about 3° cooler than normal. Seasonal precipitation totals remain well above normal.

Kenai Peninsula overnight lows averaged 4 to 5° above normal while maximum temperatures averaged 2° below normal. Considerable rain fell. Seasonal precipitation above normal.

Kodiak Island temperatures averaged 1 to 2° above normal. Several periods of light rain. Seasonal precipitation near normal.

ARIZONA: Afternoon, evening thundershowers many areas, heaviest central, southeast mountains. Temperatures slightly above normal.

Cotton excellent progress, irrigation, weed control active, limited pesticide application, 96% squaring, nearly 69% setting bolls, Small grain harvest virtually complete. Safflower harvest underway. Corn good progress. Sorghum good progress, earlier fields nearing maturity. Sugarbeet harvest 70% complete. Harvest cantaloups, watermelons, honeydews active, cantaloup tapering off. Harvest early variety grapes complete, later varieties, mostly Thompson seedless being picked. Citrus harvest complete. Dry conditions remain resulting in deterioration of rangelands. Southern ranges very poor to poor, northern ranges remain fair. Livestock fair to good. Water short to adequate, some locations receiving afternoon and evening thundershowers.

ARKANSAS: Hot, dry weather continued. Highest temperature 111°, lowest 66°. All departures from normal +3 to +12°. Most rainfall trace, least zero.

Crop, livestock condition deteriorated from third week of above 100° heat and no rain. Fieldwork: 7.0 days suitable. Soil moisture short. Cotton fair condition, 97% squaring, 56% setting bolls, 13% 1979, 46% average. Some dropping of squares from heat. Soybeans fair condition, 98% planted, 99% 1979, 99% average, blooming 20%. Rice fair to good condition. Few early planted fields begun to head. Corn fair condition. Heat, drought stress prevalent. Sorghum condition fair. Some early planted fields reached dough stage. Wheat harvest complete, oat 99% harvested, 100% 1979, 100% average. Cattle condition fair, supplemental feeding necessary. Pastures supplying below average feed. Hay regrowth stopped.

CALIFORNIA: Temperatures were below normal in all areas except for the South Coast and most of the southeast. No precipitation reported.

Crops one to two weeks behind normal. Wheat, barley harvest continue. Winter wheat 81% harvested, 87% last year. Stubble baled, burned, disced under, replanted to milo, dry beans. Cotton 35% squaring, 96% last year. Sugarbeets good growth. Safflower full bloom. Alfalfa haying normal. Normal field activities continue. Stanislaus apricot crop good. Elsewhere mold, splits and brown rot have arisen. Upcoming season avocados heavy. Dates progressing normally. Fig picking beginning. Grapes being sprayed. Cardinals coloring. Thompsons continue harvest, Desert. Nectarines, plums good quality, volume. Cling peaches, Bartlett pear harvests started. Prunes sizing rapidly. Out of storage lemon quality down. Valencia orange packing reduced pace. Pecan, pistachio progressing normally. Almonds, walnuts sizing well. Broccoli, cauliflower harvest decreased slightly but still active Central Coast. Cantaloup harvest decreasing Desert, increasing San Joaquin Valley. Carrot harvest very active Kern District, Salinas Valley. Sweet corn, cucumber harvest active South Coast to Delta. Honeydew harvest started San Joaquin Valley. Lettuce decreasing slightly Central Coast. Onion harvest decreasing San Joaquin Valley. Spring potato harvest near complete Kern. Summer potato harvest started Riverside. Storage potatoes moving from Tulelake. Market tomato harvest increasing South Coast, San Joaquin Valley. Processing tomato harvest increasing San Joaquin Valley but about 10 days behind normal. Watermelon harvest increasing San Joaquin Valley, nearly complete Desert. Ranges remain in good to excellent condition. Livestock in good condition.

COLORADO: Widely scattered showers and thunderstorms with some heavy rains in the east. Average temperatures were 3 to 7° above normal.

Winter wheat harvested 46%, 31% 1979, 53% average. Ripe 79%, 67% 1979, 77% average. Turning color complete. Corn average height 41 in., 39 in. 1979. Barley turning color 49%, 29% 1979. Headed 85%, 69% 1979. Fieldwork: 6.0 days suitable. Ranges and pastures good condition but forage limited. Livestock good condition.

FLORIDA: Above normal temperatures and below normal rainfall. The heat wave with record/breaking temperatures affected mostly the Panhandle and north areas.

Soil moisture variable but mostly short except southeast where adequate to excessive. Dryland corn poor condition; irrigated corn fair to good. Soybeans, peanuts fair progress. Soybean planting continues. Tobacco harvest full swing. Sugarcane good to excellent condition. Pastures poor to fair Panhandle through north central areas; good to excellent elsewhere. Haymaking active. Cattle good condition. Citrus stress showing from extreme

heat. Surface moisture short, irrigation active. Foliage growth slowing in dry areas. Spring vegetable season over for most crops. Light supplies of watermelons continue to move from northern counties and limited amount from small acreage in Panhandle. Gadsden County tomato harvest complete. Very light supplies sweet corn, eggplant, cucumbers, peppers, okra and squash available. Land preparation underway for summer and fall planting.

GEORGIA: Rainfall averaged near 0.25 in., but was spotty. Temperatures 3 to 5° above normal. Record temperatures and very spotty rainfall during weekend.

Soil moisture very short to short. Record temperatures and drought conditions lower crop prospects. Fieldwork: 6.0 days suitable. Corn poor to mostly fair, 63% dough, 37% dent. Soybeans mostly fair to good, 16% blooming. Peanuts fair to mostly good, 98% blooming, last year 98%, average 97%; pegging 85%, last year 91%, average 87%. Cotton fair to good, setting bolls 72%, last year 91%, average 81%. Tobacco fair to good, 28% harvested, 40% last year, average 43%. Wheat harvest virtually complete. Pastures and hay crops mostly fair to good. Cattle and hogs fair to good. Peaches fair to mostly good, 77% harvested, 76% last year, average 80%. Apples fair to mostly good. Watermelons fair to good, 52% harvested, 72% last year, 71% average.

IDAHO: Temperatures mid 80's to mid 90's. Lows 40's and 50's. Extremes: 96 and 32°. Showers and thunderstorms.

Winter wheat 100% headed, 98% 1979, average 98%; 30% turned, 1979 50%. Some leaf disease. Spring wheat 86% headed, 88% 1979, average 80%. Spring barley 80% headed. Potatoes 80% 12 in., 40% closing middles. Virtually completed cherry picking and first cutting alfalfa hay. Lentils and dry peas blooming but need hot weather. Irrigating. Some pea aphids. Lower ranges beginning to dry.

ILLINOIS: Temperatures 6 to 13° above normal. Precipitation 0.30 to 1.00 northern two-thirds, none south.

Soil moisture adequate to short. Corn condition 23% excellent, 65% good, 12% fair; average height 66 in., 55 in. 1979, 62 in. average; most advanced 80 in., 70 in. 1979, 78 in. average; 43% silked, 14% last year, average 37%. Soybean condition 5% excellent, 75% good, 20% fair; 53% blooming, 35% 1979, 40% average; 14% setting pods, 5% 1979, 12% average. Winter wheat 90% harvested, 86% 1979, 89% average. Oats 5% excellent, 64% good, 31% fair; 70% turning yellow, 72% 1979, 79% average; 25% ripe, 27% 1979, 44% average; 10% harvested, 2% 1979, 19% average. Alfalfa 12% excellent, 73% good, 15% fair; 55% second crop cut, 69% 1979, 56% average. Barley 50% harvested. Pastures 4% excellent, 46% good, 46% fair, 4% poor. Fieldwork: 5.5 days suitable.

INDIANA: Hot, dry week. Temperatures ranged from 59 to 98° and averaged 6° above normal. Rainfall 0.10 in. southwest, 1.70 southeast, 0.50 to 1.40 from west to east in central third, and 0.40 in. in north. Humidities and sunshine above normal.

Fieldwork: 5.0 days suitable. Topsoil and subsoil moisture mostly adequate. Wheat 65% combined, 1979 35%, average 75%. Wheat 95% ripe, 1979 95%, average 95%. Corn 57 in. tall, 1979 50 in., average 55 in. Corn 15% silked, 1979 5%, average 25%. Corn condition fair to mostly good. Soybeans 14 in. tall, 1979 15 in., average 15 in. Soybeans 35% blooming, 1979 20%, average 25%. Soybean condition fair to mostly good. Oats 5% harvested, 1979 5%, average 20%. Rye 35% harvested, 1979 25%, average 60%. Alfalfa hay 45% cut second time, 1979 45%, average 45%.

IOWA: A hot, humid week with little or no rain in the southwest. Thundershowers on the 8th and 9th produced little to moderate rain over the northeast.

Fieldwork: 6.0 days suitable. Corn acreage tasseled: 39%, 1979 6%, normal 33%. Soybean acreage blooming: 34%, 1979 19%, normal 35%. Winter wheat harvested: 63%, 1979 20%, normal 40%. Second crop alfalfa hay harvested: 37%, 1979 39%, normal 45%. Topsoil moisture short to adequate. Subsoil moisture short to adequate. Crop conditions: Most crops good, oats fair to good. Pastures fair. Livestock in fair condition, some stress, market movement increased.

KANSAS: A few beneficial showers extreme north, otherwise continued very dry with record breaking heat. Temperatures averaged 87 to 90° western third to 95° south central and 10 to 15° above normal. With exception of the extreme northeast and extreme northwest, most stations reported continuous 100° plus high temperatures all week.

Wheat harvest 98% complete, last year 70%, average 95%. Soybeans blooming 15%, 10% last year. Corn tasseled 25%, 15% last year, 30% average. Alfalfa second cutting 80%, 70% last year, 75% average, alfalfa third cutting 5%, 4% last year, 10% average. Corn, sorghum, soybeans continue decline condition due hot, dry weather.

KENTUCKY: Some of the warmest air since the 1960's baked State. Readings averaged 3 to 4° above normal in the north and east, upwards to 8 to 10° above in the southwest. The only rain fell in the north and east where spotty amounts of 0.25 to nearly 3.00 in. were reported.

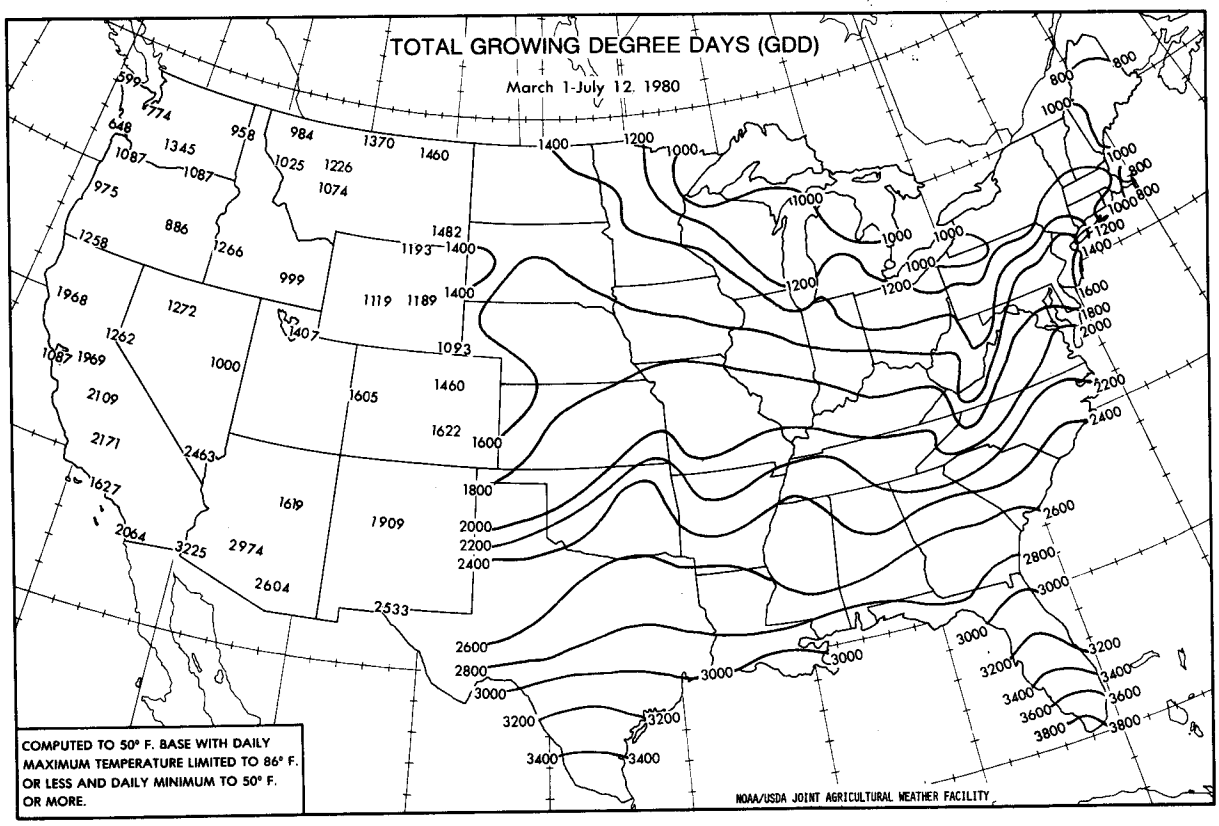
Soil moisture reported short to adequate. Extreme heat stressing crops and livestock. Fieldwork: 5.0 days suitable. Tobacco fair to good condition; growing rapidly with 15% over two feet in height and 50% between one and two feet. Black shank most problem but blue mold reported in fields in several counties. About 33% corn silked or silking. Concern over pollination as several reports of tassels burnt from extreme heat. About 10% of soybeans blooming. Cyst nematode reported in west. Wheat harvest virtually finished. Pastures have shown considerable deterioration.

LOUISIANA: Rain minimal. Temperatures 5 to 8° above normal. Extremes: 68 and 105°.

Soil moisture short. Fieldwork: 6.1 days suitable. Corn poor to fair, silked 80%, 95% 1979. Dough 57%, 68% 1979. Cotton fair, squaring 89%, 77% 1979, setting bolls 37%, 23% 1979. Rice fair to good, headed 51%, 49% 1979. Ripe 8%, 6% 1979. Light harvest underway. Sorghum planting complete, headed 26%, 30% 1979. Turning color 14%. Soybean planting virtually complete, condition fair, blooming 19%, 22% 1979; setting pods 8%, 8% 1979. Armyworms cause concern. Sugarcane fair to good. Pastures fair. Hay first cutting virtually complete. Livestock fair to good. Peaches harvested 78%. Vegetables poor to fair. Sweetpotato planting virtually complete, condition fair.

MARYLAND AND DELAWARE: Temperatures averaged 1 to 2° below normal. Highs, mid to upper 80's. Lows, mid to upper 60's. Precipitation moderate averaging 1.50 in.

Corn good condition. Oats 83% harvested. Barley 98% harvested. Rye 80% harvested. Second cutting of alfalfa 79% harvested. Clover second cutting 17% harvested. Fieldwork: 6.0 days suitable.



MICHIGAN: Temperatures normal to 6° above normal. Precipitation spotty, amounts in excess 2.00 in. fell locally due to thunderstorm activity. Average precipitation 0.60 to 1.00 in. Upper, less than 0.30 in. northern Lower and 0.50 to 1.30 in. southern Lower.

Good crop growth generally, although some soils getting quite dry. Corn 35 in. high, 36 last year, 41 normal. Hay 1st cut 91% complete, 94 last year, 93 normal. Last dry bean fields planted. Cultivating underway. Oats 82% headed, 81 last year, 94 normal. Wheat 6% ripe, 10 last year, 24 normal. Few fields harvested southern counties. Sweet cherries 10% harvested, 22 last year, 54 normal. Tart cherries 5% harvested, 14 last year, 30 normal. Strawberry picking wrapup. Warm temperatures benefiting vegetable crops. Early season potato digstarting.

MINNESOTA: Temperatures averaged 6 to 10° above normal. Extremes: 103 and 48°. Precipitation averaged near normal to 0.50 in. below normal in northwest, northeast, and west central districts, 0.50 to 0.75 in. below normal elsewhere.

Crops under stress due to last week's hot weather. Rain needed soon. Small grains pushed to early maturity. Tasseling: Field corn 14%, 1979 0%, normal 28%. Blooming: Soybeans 41%, 1979 12%, normal 39%; sunflowers 13%, 1979 1%. Heading: Spring wheat 97%, 1979 53%, normal 87%; oats 96%, 1979 71%, normal 90%; barley 99%, 1979 60%, normal 89%. Turning ripe: Winter wheat 89%, 1979 51%, normal 79%; rye 90%, 1979 55%, normal 85%; spring wheat 30%, 1979 0%, normal 26%; oats 34%, 1979 4%, normal 37%; barley 44%, 1979 0%, normal 31%. Cut or swathed: Winter wheat 3%, 1979 0%, normal 12%; rye 5%, 1979 0%, normal 14%; spring wheat 0%, 1979 0%, normal 4%; oats 1%, 1979 0%, normal 8%; barley 1%, 1979 0%, normal 5%. Combined: Winter wheat 1%, 1979 0%, normal 10%; rye 1%, 1979 0%, normal 7%.

MISSISSIPPI: Hot, dry spell continues. Rains in southern area. Temperature 5° above normal. Extremes: 67 and 105°.

Soil moisture mostly short to very short. Fieldwork: 6.3 days suitable. Fields are under stress conditions with dry, hot days. Hay 54% harvested, 50% 1979, 47% average. Peaches 46% harvested, 49% 1979, 57% average; fair condition. Watermelons 25% harvested, 39% 1979, 17% average. Sorghum 95% planted, 98% 1979, 97% average; 15% headed, 21% 1979. Soybeans 92% up to stand, 97% 1979; 18% blooming, 11% 1979, 16% average; fair to good condition. Corn 77% silked, 82% 1979, 74% average; 33% dough stage, 39% 1979; fair to good condition. Cotton 96% squaring, 92% 1979, 83% average; 63% blooming, 54% 1979; 23% setting bolls, 8% 1979, 21% average; good to fair condition. Rice 3% headed, 2% 1979, 4% average; good to fair condition. Pastures mostly fair condition.

MISSOURI: Temperatures averaged 6 to 12° above normal with highs in most areas over 100° every day. No rain fell except for small amounts in the extreme East.

Fieldwork: 6.1 days suitable. Corn 54% tasseled, last year 35%. Corn 29% silked, last year 28%, normal 36%. Double-crop soybeans 89% planted, last year 77%. Wheat 92% harvested, last year 71%, normal 90%. Soybeans 20% blooming, last year 0%, normal 17%. Oats 71% harvested, last year 32%, normal 72%. Cotton 89% squared, last year 66%, normal 67%. Cotton 45% setting bolls, last year 0%, normal 50%. Alfalfa hay second cutting 73% harvested, last year 57%, normal 65%. Other hay

90% harvested, last year 81%. Condition of corn mostly fair to good, soybeans fair, pastures poor, cotton fair. Topsoil moisture supplies mostly short.

MONTANA: Frequent showers and thundershowers over west and southwest and into southern portion of central area. Amounts generally 0.25 to 0.75 in. Elsewhere no precipitation or only light amounts. Temperatures ranged from 7° above normal in southeast and 5° above normal in south central and northeast to about 1° below normal in west. Extremes: 106 and 35°.

Moisture supplies continue very short in eastern third, short to adequate elsewhere. Fieldwork: 6.0 days suitable. Winter wheat condition fair. Except for eastern third, other crops mostly good. Winter wheat headed 25%, 60% 1979, 45¢ average. Spring wheat headed 65%, 40% 1979, 55% average. Barley headed 65%, 45% 1979, 55% average. Oats headed 65%, 55% 1979 and average. First cutting alfalfa hay 70% cut, wild hay cut 40%. Range feed supplies follow moisture pattern, nearly non-existent in eastern third.

NEBRASKA: Temperatures 6° above normal Panhandle; 10° above normal elsewhere. Precipitation lacking.

Winter wheat mostly good. Virtually all ripe; 65% last year; 80% normal. Harvested 65%,; 20% last year; 60% normal. Corn fair to mostly good. Silking 15%; less than 5% last year; 15% normal. Soybeans fair to good, 30% blooming. Sorghum fair to mostly good. Heat stressing some row crops. Second cutting of alfalfa 65% complete, 30% last year. Topsoil moisture short. Subsoil moisture short to adequate. Pasture and range feed supplies short to adequate. Some supplemental feeding reported. Wild hay fair to good. Severe livestock stress. Some death losses reported in many areas. Fieldwork: 6.8 days suitable.

NEVADA: Thunderstorms mid-week. Usual dry weather returned end of period. Temperatures averaged normal or below northwest and south central, a little above normal in south. Extremes: 109 and 40°.

Warm weather helped small grains, potatoes, and other row crops. Livestock doing well on above average pastures.

NEW ENGLAND: Normal temperatures despite the passage of two strong cold frontal systems. Showers on 8th and 11th accompanied by heavy rains, high winds and hail. Precipitation ranged from a trace to near 1.00 in.

Fieldwork: 4.0 days suitable. Vegetable harvest in full swing. Early sweet/corn appearing. Strawberry harvesting ending South, just beginning extreme North. Cranberry growers report good set with a heavy crop prospect. Apples, peaches continue to size well. Earliest peaches will be ripening next week. Warm weather needed to hasten potato growth in Maine. Some insect problems. Hay harvest continues with first crop 85% cut and second crop 10% cut. Corn needs more heat and moisture. Pasture conditions mostly adequate to short. Soil moisture adequate except in Vermont where it is short to very short.

NEW JERSEY: Temperatures averaged 1 to 3° below normal. Extremes: 45 and 92°. Rainfall averaged 0.35 in. north, 0.03 in. central and 0.49 in. south. Soil moisture, in percent of field capacity, averaged 72 north, 47 central and 60 south.

Fieldwork: 6.2 days suitable. Topsoil moisture adequate to short. Growers irrigating some areas. Some heavy thundershowers accompanied by hail were received the evening of the 10th. Movement of summer vegetables increasing. Peach harvest becoming general. Blueberry volume good. Harvest of summer apples underway. Barley combining about complete, wheat harvest active. Second cutting of hay advancing. Field corn and soybeans good.

NEW MEXICO: All sections recorded some shower and thundershower activity. Temperatures averaged 2° above normal.

Soil moisture very short. Water storage on ranges depleted. Irrigated crops generally good condition. Dryland crops poor condition. Dry weather making hay baling difficult. Second cutting of alfalfa nearly complete. Prospects for good cotton crop are favorable, hot weather favorable. Harvest of wheat and barley nearly complete. Harvest of late onions progressing. Pecan crop expect heavy drop. Ranges poor condition. Ranchers supplemental feeding.

NEW YORK: Temperatures averaged below normal. Light rainfall in western areas. More frequent in east.

Corn growth, hay regrowth improved. Corn development behind last year. Wheat turning. Dry bean condition good. Rain made dry haying difficult. First cutting of all types of hay in late stages, same as 1979, ahead of average. Strawberry harvest nearly done. Volume harvesting of Long Island and Orange County lettuce. Snap bean harvest underway in some areas. Apples, pears sizing well. Sweet cherry harvest continues active. Tart cherry harvest to start soon.

NORTH CAROLINA: Temperatures above normal. Precipitation 0.50 to 1.00 in. Some areas up to 3.00 in.

Fieldwork: 5.1 days suitable. Soil moisture short to adequate. Conditions: Pastures, field tobacco, corn fair to good; peanuts, cotton, hay, Irish potatoes fair to mostly good; soybeans, sweetpotatoes, apples, peaches mostly good. Harvested: Irish potatoes 75%, 1979 76%, average 83%; flue-cured tobacco 5%, 1979 8%, average 9%; hay 67%, 1979 68%, average 67%. Phenological stages: Cotton 67% squared, 21% set bolls; corn 66% silked, 31% soft dough, 8% dent; soybeans 3% blooming.

NORTH DAKOTA: Hot weather increased drought stress. Temperatures of over 100° common. The high was 109°; the low 45°. Temperatures averaged 3 to 6° above normal. Precipitation extremely spotty.

Extremely hot temperatures and continued dry weather deteriorated all crops. Some damage was caused by wind and hail. Heat prematurely pushed ahead ripening of small grains. Some acreage burnt up beyond hope of any harvestable yield in southwest. Some grain fields continue to be plowed up, cut for hay or grazed. Harvest activity has started with a few fields of barley and oats swathed. Heat causing some quality deterioration because of burnt grain. Soil moisture suffered more depletion and is now shortest on record since 1950. Small grains now rated mostly poor with none rated good. Row crop condition mostly fair. Lack of moisture becoming critical for row crops with more needed. Average height vs. height last year and average: Corn 28, 32, 26; sunflower 21, 20, 24 and soybeans 12, 16, 13. Potatoes 44% in bloom vs. 19 last year and 44 average. Pasture growth continues to deteriorate. Ranchers continue to sell cattle and buy out-of-state hay.

OHIO: Average temperatures were about normal. Rainfall quite variable. The range was from 0.24 to 3.30 in.

Corn height 52 in., 51 in. 1979, 54 in. average. Soybean height 15 in., 16 in. 1979, 18 in. average. Soybean blooming 20%, 25% 1979. Wheat harvested 15%, 25% 1979, 50% average. Fieldwork: 4.0 days suitable. Pasture condition good. Soil moisture mostly adequate.

OKLAHOMA: Very hot and dry. Average temperatures ranged from 5° above normal in southeast to 10° above normal in the northeast. No rainfall occurred, making this the third dry week. The east central division has only received about half their normal rainfall for the year.

Dry weather coupled high temperatures continued to plague agriculture. All pastures and crops showing effects heat stress. Wheat harvest 95% 1980, 95% 1979, 100% average. Sorghum up to stand 100% 1980, 100% 1979, 95% average. Sorghum heading 10% 1980, 5% 1979, 15% average. Cotton squaring 15% 1980, 20% 1979, 25% average. Fieldwork: 5.7 days suitable.

OREGON: Temperature near to slightly below normal. Rainfall averaged 0.10 in. along Coast to 0.30 in. in the northeast and central southeast.

Soil moisture mostly adequate but short in scattered areas. Winter wheat fair to good in west, good to excellent in east; 90% turning color, 89% 1979. Harvesting has started in east. Second cutting alfalfa in Valley. Grass seed combining and windrowing. Cherry harvest in full swing; thinning of pears and apples continues. Orchard crops good but delayed. Blueberry harvest begins. Filbert worm sprays going on. Raspberry harvest in progress. Pea harvest continues. Late potatoes closing rows. Early beans and beet harvest beginning. Livestock, range and pasture condition good to excellent.

PENNSYLVANIA: Mostly fair with temperatures near to 4° below normal. Extremes: 92 and 38°. Rainfall 0.25 to 4.00 in. west and north but less than 0.10 in. eastern counties.

Fieldwork: 6.0 days suitable. Soil moisture mostly adequate to short. Average height for corn is 32 in., last year 27 in. Barley 16% turning yellow, 25% ripe, and 59% harvested; last year, 11% turning, 33% ripe and 56% harvested. Wheat 46% turning yellow, 39% ripe and 13% harvested; last year, 44% turning yellow, 45% ripe and 8% harvested. Oats 55% headed, 36% turning yellow, 5% ripe and less than 5% harvested; last year 6% not yet headed, 70% headed, 21% turning yellow, and less than 5% ripe. Second cutting of alfalfa 31%, last year 24%. Clo-Tim harvest 94%, last year 89%. Hay condition good. Feed from pasture mostly average to below average.

PUERTO RICO: Island average rainfall 1.77 in. or 0.65 in. above normal. Total 4.89 in. Temperatures averaged about 82° on coasts and 77 to 79° interior divisions. Extremes: 60 and 95°.

SOUTH CAROLINA: Dry and hot as temperatures rose gradually to much above normal. Scattered thunderstorms; strong winds caused 2 deaths, injuries, and considerable minor localized damage. Rainfall much below normal.

Corn conditions include drought disaster, dry stress, or satisfactory where rains fell; generally fair condition; percent silked at 86, 92 last year, 90 average; dough stage, 47, 70, 69; mature, 4, 20, 17. Cotton condition fair to good, some controlling boll weevils; squaring at 95, 93 last year, 90 average; 63 percent setting bolls, 56 year ago, 55 average. Soybeans fair to good, some ragged stands or dry stress; 3% blooming, 7 last year, 9 average. Tobacco condition fair to good; topped 76%, behind 97% year ago; harvested at 9%, 28 last year, 27 average. Peaches, grapes, apple conditions good; peaches harvested 43%, 56 last year, 58 average. Pastures fair under dry stress. Watermelon condition fair to good, 48% harvested behind 56 last year, 60 average. Tomatoes fair condition, harvest finishing along Coast.

SOUTH DAKOTA: Temperatures 1 to 9° above normal. Hot and humid with only scattered rainfall.

Topsoil moisture adequate in most of northeast and east central. Short and critically short elsewhere. Fieldwork: 6.0 days suitable. Winter wheat harvest starting to pick up. Harvest of other small grains has begun also. Supplemental feeding and herd reduction has increased. Some cattle have been moved to out of state pastures. Hay supplies short in western two-thirds of State. Flax 85% bloomed, 73% 1979, 78% average. Soybeans 48% bloomed, 14% 1979, 38% average. Winter wheat 92% ripe, 21% 1979, 51% average. Oats 46% ripe, 9% 1979, 30% average. Spring wheat 28% ripe, 5% 1979, 16% average. Barley 46% ripe, 9% 1979, 35% average. Winter wheat 31% harvested, 0% 1979, 17% average. Rye 12% harvested, 0% 1979, 10% average. Oats 9% harvested, 0% 1979, 7% average. Spring wheat 7% harvested, 0% 1979, 3% average. Barley 13% harvested, 0% 1979, 8% average. Corn 42 in., 32 in. 1979, 34 in. average.

TENNESSEE: Record high temperatures. Extremes: 64° and 103°. Rains light and scattered except in east where amounts above 1.00 in. were common.

Fieldwork: 5.6 days suitable. Soil moisture short. Soybeans 15% blooming, 1979 8%, average 16%. Soybeans 3% setting pods, 1979 1%, average 2%. Corn 45% silked, 1979 28%, average 50%. Corn 5% in dough, 1979 2%, average 11%. Cotton 95% squaring, 1979 62%, average 85%. Cotton 12% setting bolls, 1979 1%, average 14%. Small grain harvest virtually complete. Second cutting alfalfa 92% complete. Pastures short. Cattle fair. All crops in need of rain.

TEXAS: Weather: Continued hot, dry weather. A few showers East, Lower Coast. Temperatures near normal East, 2 to 3° above normal Panhandle, Southwest; 4 to 6° above normal elsewhere. Rainfall 0.50 in. to 1.00 in. below normal South, East, 0.25 to 0.50 elsewhere.

Commercial vegetables: In Lower Rio Grande Valley, most vegetable harvest complete. Some honeydew melons available. In San Antonia-Winter Garden area, vegetable quality, maturity affect by hot, dry weather. Watermelon harvest ending. Some cantaloups harvested. In Central, production most vegetables ended. Harvest of watermelons continued. Production reduced. In East, prospects for all vegetables deteriorated. Harvest watermelons, cantaloups continued, but yields reduced. Some irrigated watermelons beginning to ripen. Limited supplies squash, corn, cucumbers, tomatoes, okra available. Sweetpotatoes look good. In North, most vegetables suffered severely from heat. Some watermelons being harvested. Limited supplies of tomatoes, peas, okra available. On High Plains, onion harvest full swing. Potato, cucumber harvest begun. Green peppers look good. In Trans-Pecos area, harvest cabbage, potatoes continued. At Presidio harvest of cantaloups began. Peach harvest continued. Pecans show moisture stress many areas and some droppage occurred.

Range and livestock: Continued high temperatures, dry weather, caused range, pasture conditions to further deteriorate. New growth nonexistent. Condition livestock being maintained, however, some supplemental feeding, marketing of weaned calves reported. Stock water low some areas.

Crops: Temperatures well above normal, third consecutive week. Light showers Trans-Pecos, Coastal areas. Statewide no significant moisture reocrded. All crops showing effects of continued hot, dry conditions. Dryland cotton, corn, sorghum drying rapidly, bringing early maturity, prospects of reduced yields. Fieldwork light. Cotton fighting effects of heat wave. Conditions fair. Plains dryland stands making slow growth, holding up fairly well. Rio Grande Valley, cotton maturing rapidly, some fields shedding bolls. Irrigated fields in good condition, insect damage light. Grasshoppers, weevils noted Plains, North Central areas. Sorghum deteriorating. Late stands High Plains, developing slowly. Low Plains, Cross-Timbers, Blacklands fields burning badly. Fields reduced. Fields maturing early, heads light. Harvest underway, South, Rio Grande Valley. Corn conditions continued to deteriorate. Dryland yields hurt. Fields maturing rapidly, moisture is critical for ear, kernel development. Blacklands, Cross-Timbers report heavy drought damage, other areas indicate moderate damage. Yields vary greatly. Peanut planting virtually complete. Cultivation continues, slight grasshopper damage has occurred, Blacklands. Soybean development affected by heat stress. Pod setting, development slow, irregular. Planting complete. Wheat 97% harvested. Harvest active Plains. Second cutting of hay diminished, high temperatures continued to burn pastures, meadows. Cotton squaring 66%, 49% 1979. Cotton setting bolls 20%, 16% 1979. Cotton open bolls 7%, 4% 1979. Rice headed 83%, 82% 1979. Rice turning color 50%, 22% 1979. Sorghum headed 64%, 60% 1979. Sorghum turning color 50%, 44% 1979. Sorghum mature 33%, 28% 1979. Sorghum harvested for grain 28%, 15% 1979, 17% average. Wheat harvested for grain 97%, 97% 1979, 99% average. Peanuts planted 100%, 98% 1979, 99% average. Sunflowers planted 100%, 100% 1979, 98% average.

UTAH: Few scattered showers and thunderstorms. Accumulated amounts moisture generally light to moderate. Average temperatures ranged from 4° below normal to 5° above.

Fieldwork possible the entire week with the exception of local thunderstorm areas. Moisture in non-irrigated soils mostly short, but irrigation water continues in good supply. Small grains maturing fast. Winter wheat 15% ripe. Spring grains mostly headed and beginning to turn color. Sweet cherry harvest will peak this week. Apricots and tart cherries should be ripe in a week. Harvest of second cutting alfalfa has begun. The crop is in good condition with little insect damage. Corn is making good growth, but is well behind normal. Condition of the corn crop is fair.

VIRGINIA: Temperatures near normal. Extremes: 95 to 48°. Thunderstorms, heavy rains, winds caused considerable damage, power outages. Rainfall ranged from 1.00 in. east to 3.00 in. west, southwest.

Rain aided pasture, hay, late corn growth; allowed plantings of double-cropped soybeans. Topsoil moisture improved, rated short to adequate. Fieldwork: 4.0 days suitable. Wheat 90% combined, 90% 1979, 87% usual. Corn 35% silked, 40% 1979, 48% average. Pastures, corn condition fair. Hay good southern half, fair elsewhere. Tobacco, peanuts, soybeans good to excellent. Tobacco topping, suckering active. Seeding sorghum after drought stressed corn disked in Southeast.

WASHINGTON: West: Temperatures averaged normal to 3° below. Precipitation slightly above normal. Strawberry harvest continues, some fruit rot. Raspberry harvest underway. Green pea harvest spread. Fresh vegetable harvests. Hay cut, some rained on. Dairymen green chopping.

East: Temperatures averaged 3 to 5° below normal. Precipitation 0.10 to 0.30 above normal. Thundershowers, some hail. Cherry harvest continued, much splitting. Apples, pears growing, sizing well. Peach, apricot picking starting Yakima Valley. Potato harvest coming soon. Rain interrupted haying. Dryland soil moisture adequate to good. Grain yields look good. Fungus stripe in wheat. Green, dry pea harvests on-going.

WEST VIRGINIA: Temperatures above normal. Extremes: 95° and 35°. Precipitation well above normal.

Fieldwork: 2.3 days suitable. Soil moisture surplus to adequate. Wheat good to fair, 20% harvested, 44% ripe, 35% headed, 1% pre-headed, compared to 15%, 53%, 32% respectively in 1979. Barley good to fair, 51% harvested, 31% ripe, 18% headed, compared to 52%, 36%, 12% respectively in 1979. Oats good to fair, 6% harvested, 9% ripe, 73% headed, 12% pre-headed compared to 4%, 18%, 70% and 8% respectively in 1979. Corn fair to good. Potatoes good to fair. Tobacco fair to good. Pasture good to fair. Hay good to fair. Fruit fair. Severe thunderstorms common causing wind damage and localized flooding.

WISCONSIN: Hot, humid. Highs 80's and 90's, with some 100's west central and south. Lows 50's and 60's. Extremes: 104 and 46°. Showers and thunderstorms south 9th and north 10th and 11th. Rainfall amounts 0.50 to 0.75 in. except lighter northwest and northeast. Some spotty totals over 1.00 in. in thunderstorms.

Fieldwork: 6.0 days suitable. Corn growing rapidly in hot weather. Corn averages 50 in. height, 1979 36 in., normal 40 in. Early corn tasseling. Corn needs moisture, especially on light soils. Oats 98% headed, 1979 70%, normal 90%. Winter wheat, rye, barley, oats ripening fast. Small grains good, some lodged by wind storms. Second crop hay 10% harvested, 1979 5%, normal 5%. High humidity slowing hay drying. Good second crop growth where first crop cut early, late cut fields showing little regrowth. Soybeans growing well but need moisture. Pasture condition below normal and declining in hot, dry weather. Tobacco plants need moisture. Cherries being harvested southeast. Early potatoes being dug. Heat maturing pea crop rapidly. Sweet corn tasseling. Snap beans being harvested. Topsoil moisture mostly short. Streamflow below normal.

WYOMING: Precipitation below normal, exceptions were Snake drainage where precipitation was above normal by almost 0.50 in., and in Big Horn drainage where precipitation was about average. Temperatures 2 to 10° above normal.

Fieldwork: 7.0 days suitable. Topsoil moisture short. Winter wheat turning color 91%; mature 20%; harvested 10%. Spring wheat headed 72%, turning color 40%. Oats headed 62%; turning color 18%; small amount mature. Barley headed 88%; turning color 32%; mature 12%. Corn starting to tassel. Dry beans 89% in bloom. First cutting alfalfa 69% complete. Other hay 20% cut. Livestock contracted for fall: Cattle 5%; calves 7%; lambs 8%. Stock water adequate most areas except northeast.

International Weather and Crop Summary

July 7 - 13

HIGHLIGHTS:

USSR: Harvesting winter grains in the South...dry in the East, too wet in the West. Spring grains heading in the South...adequate moisture in New Lands, dry in southeastern Volga.

EUROPE: Harvesting winter grains...too wet in many areas.

CHINA: Many crops in the flowering stage*...mostly good soil moisture.

INDIA: Most crops in vegetative stage*...generally good soil moisture.

THAILAND: Corn in vegetative stage*...adequate soil moisture.

AUSTRALIA: Winter wheat sowing completed*...good moisture availability except for northern New South Wales and Queensland.

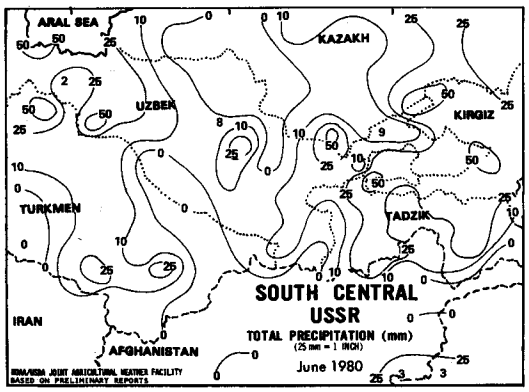
ARGENTINA: Winter grain sowing in progress*...adequate moisture.

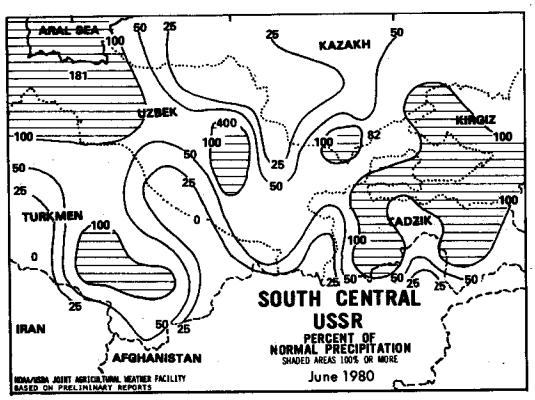
BRAZIL: Early growth of winter wheat*...favorable weather conditions.

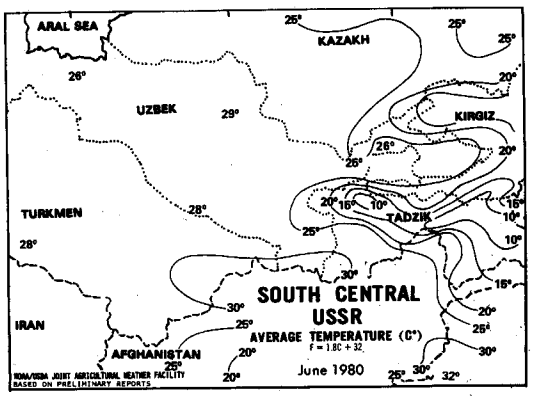
MEXICO: Crops in northern portion in flowering stage...water supplies improving somewhat, hot weather continues.

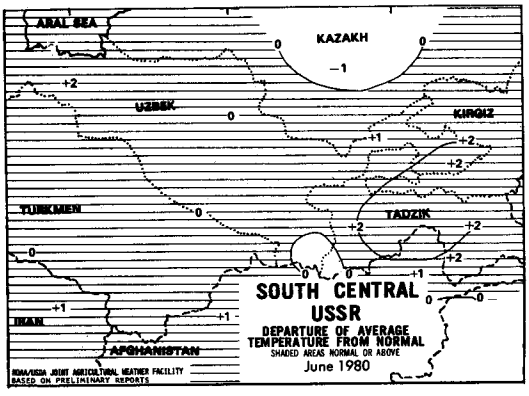
CANADA: Spring grains heading...adequate moisture in the West, too dry in South-central portion.

*Based on normal crop calendar information.

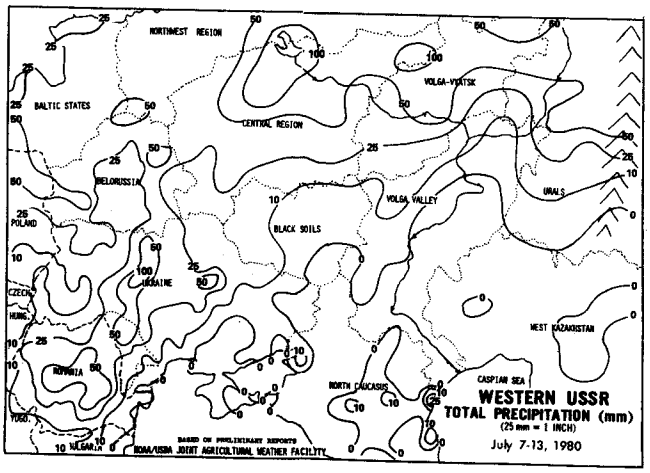


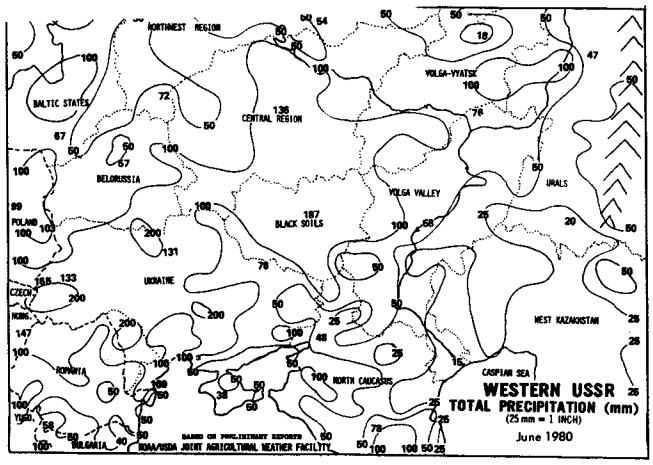


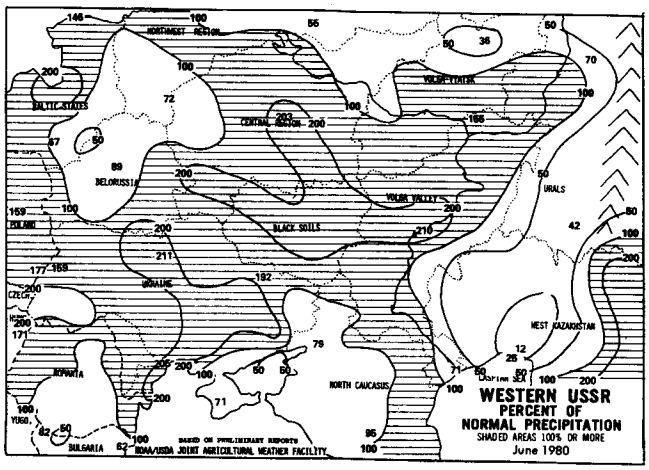


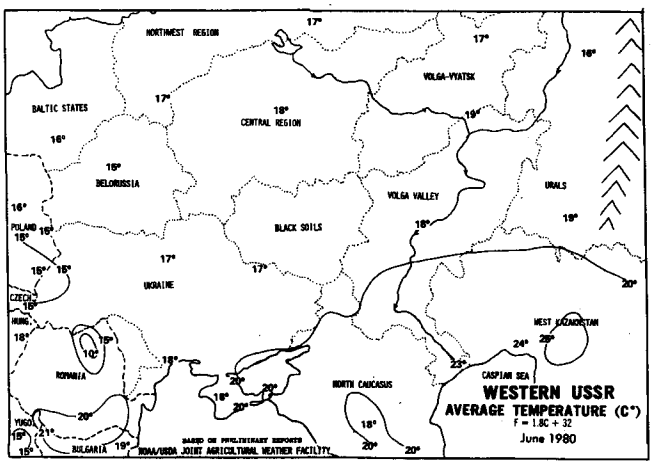


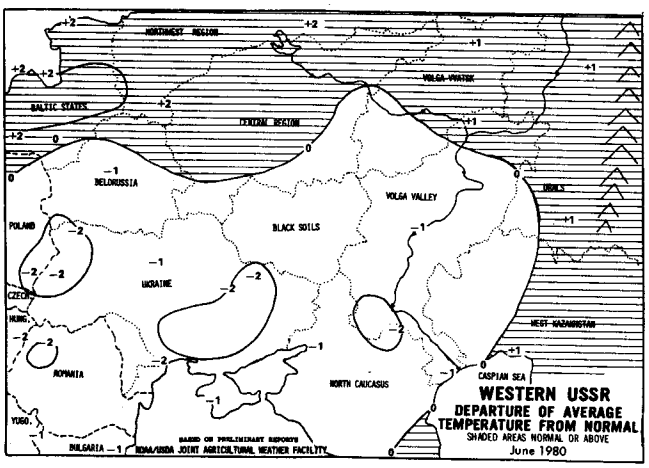
USSR. Favorable harvest weather for winter grains continued in southeastern portions of the belt, and weather in the eastern Ukraine and Black Soils Region cleared as harvesting moved northward. However, cool, wet weather continued to the north and west. A band of above-normal rainfall extending northward from Moldavia through the central Ukraine interfered with harvest in the southern areas. This represents a continuation of conditions which had prevailed over all of the Ukraine during June, when rainfall neared three times normal over an extensive area. Relatively dry June weather in the Crimea and much of the North Caucasus favored the maturation of winter grains. Northern crop areas in European USSR became too wet for crops as two weather systems moved across from the west. Many northern areas received above-normal rainfall in June, with near-normal temperatures, but this cool, wet weather should retard crop development. Conversely, conditions in the southeastern Volga Valley have remained too warm and dry for crops since mid-May. A combination of fair weather and dry soils in some parts of this area has recently put moderate stress on crops, reducing yield potential.



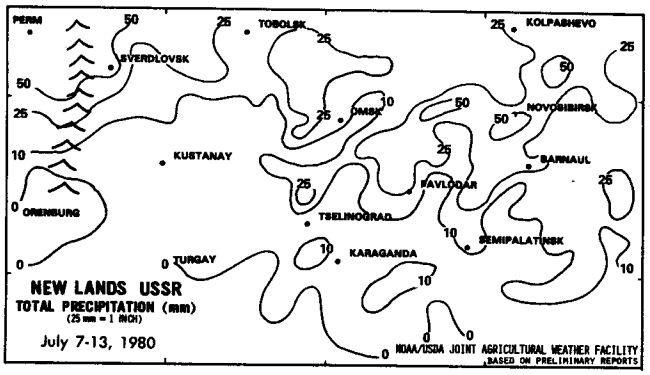


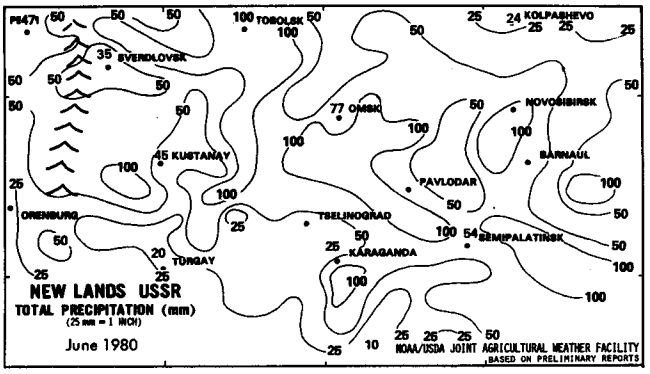


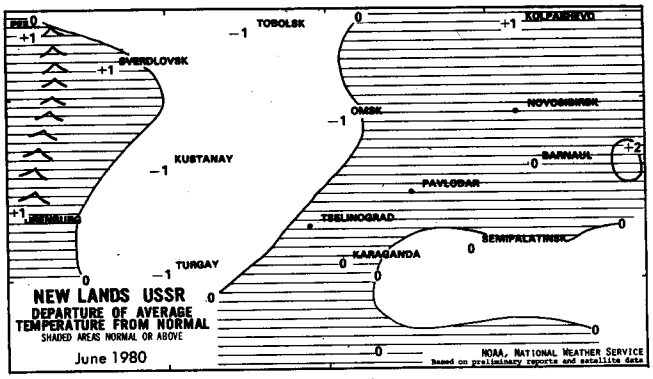


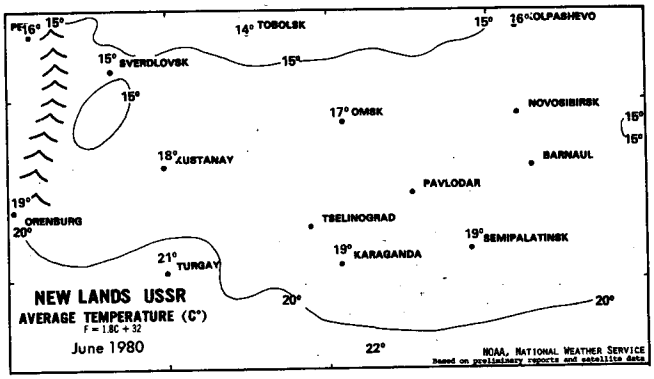


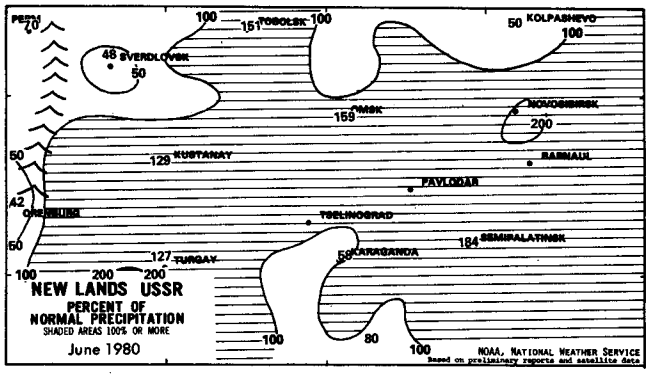
NEW LANDS. Wet weather returned to the eastern half of the New Lands, where most locations received above-normal rainfall. This continued a trend which began in June, and maintained adequate moisture in the upper soil layers for current crop needs. Prior to planting in late May, an extensive portion of this eastern area had insufficient soil moisture. Abundant rainfall in the northwestern New Lands maintained good moisture levels, and although very little rain fell in southwestern portions, soil moisture remained quite adequate from above-normal rainfall during June.



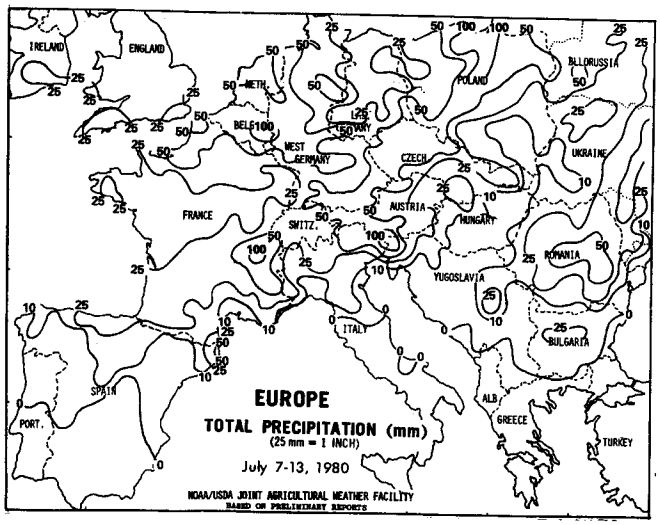


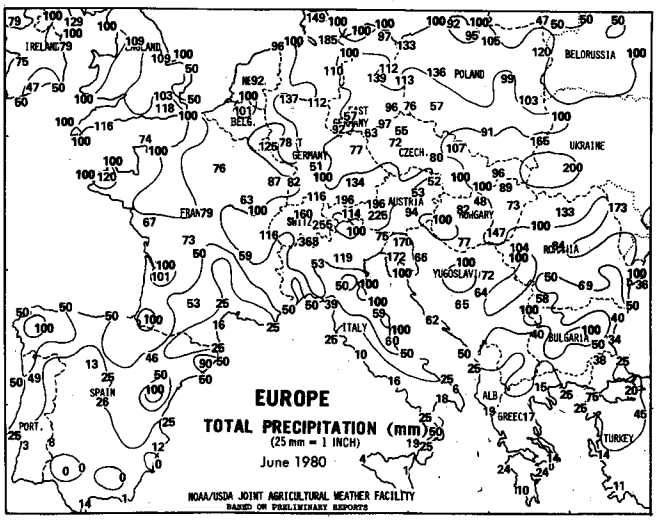


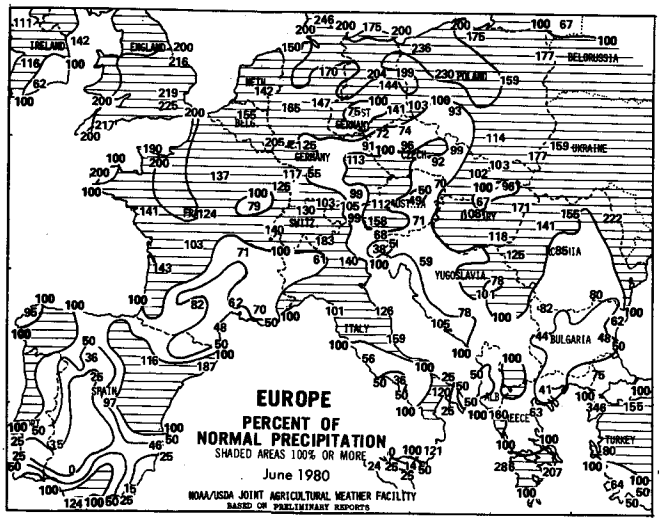


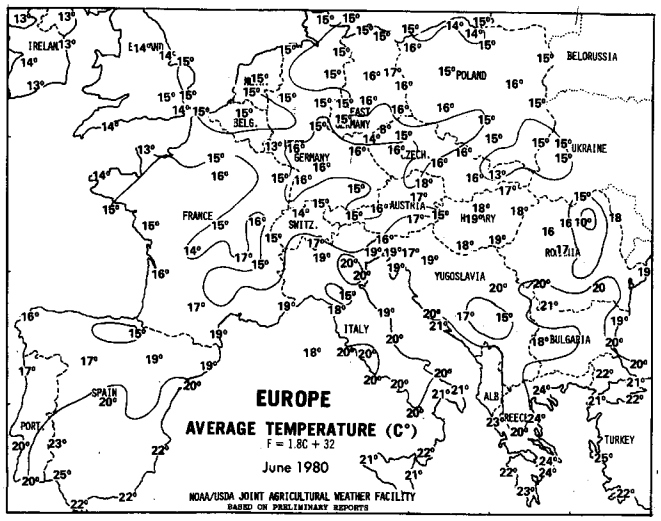


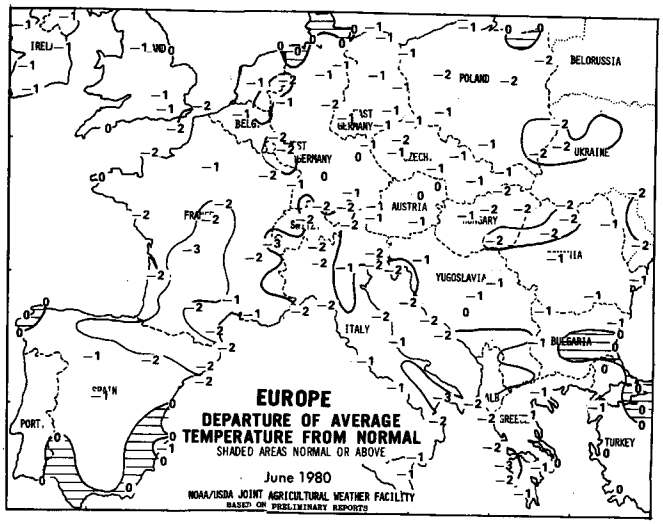
EUROPE. Cool, wet weather continued over the northeastern half of Europe, and rain spread southward again into winter grain harvest areas. These conditions have persisted since early June, when rainfall was more than 50 percent above normal in many places, and temperatures remained below normal. Winter grains in many northeastern countries have suffered both quality and yield losses from the excess moisture, and development of row crops has been delayed. Above-normal rain this week in Romania, northern Italy, and southern France may not have seriously affected winter grain harvest, for there have been extended periods of fair weather between the rainy spells. In England, conditions have improved slightly following a very wet June, with rainfall now running near normal; and winter grain prospects remain good.



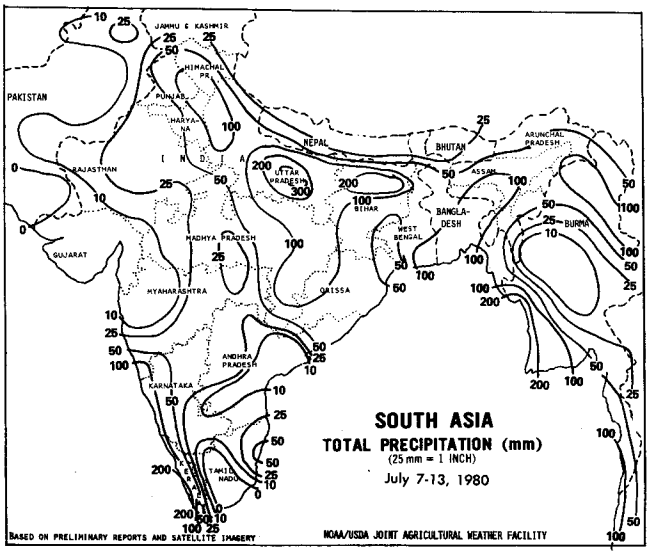


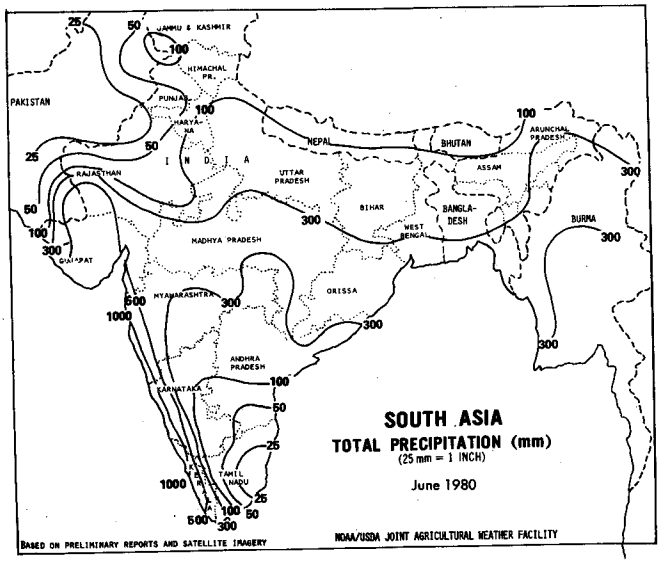


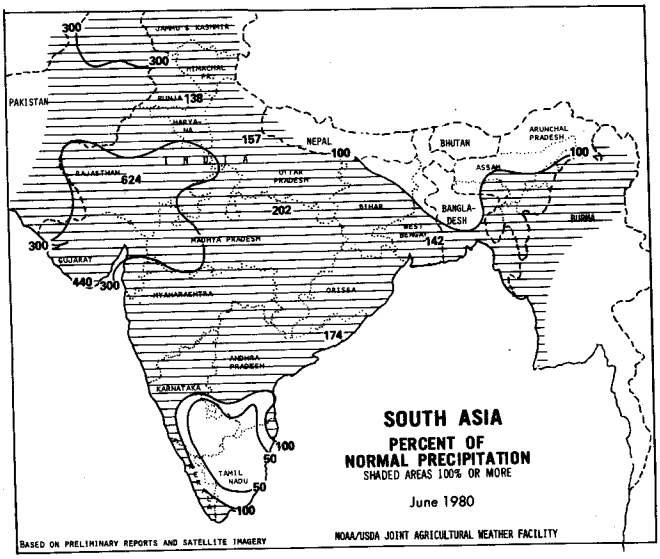


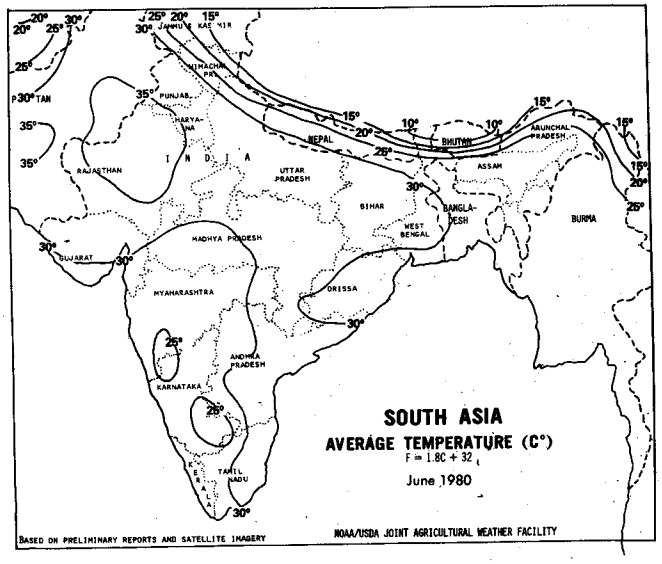


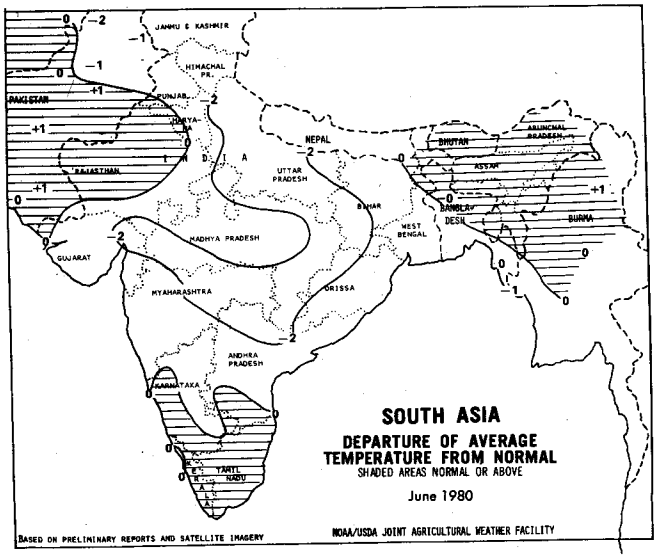
INDIA. Above-normal rainfall continued in the northeast, with some flooding reported in Assam. Drier weather in Gujarat allowed replanting of cotton and peanuts following the excessive rains in late June. Only in Andhra Pradesh and Tamil Nadu was relatively dry weather unfavorable for crops, and this week the dry area was substantially reduced. The month of June had been good to India and Bangladesh, with the exception of local flooding in Gujarat. June temperatures remained below normal over a broad area in central India but with no significant impact on crop development.

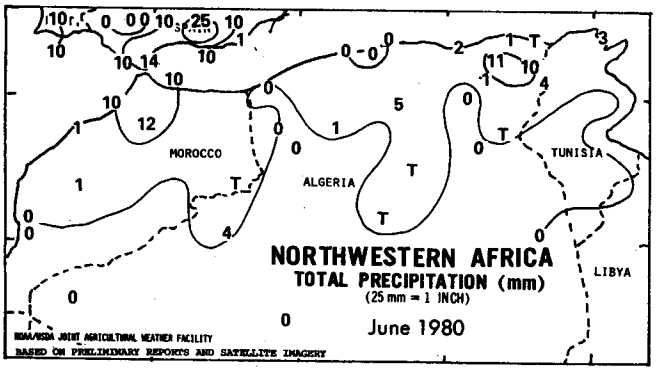


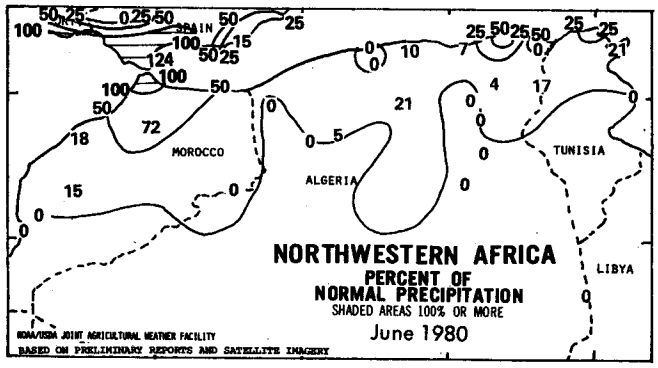


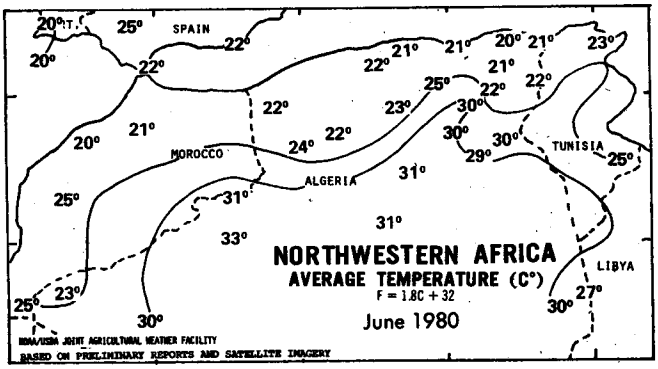


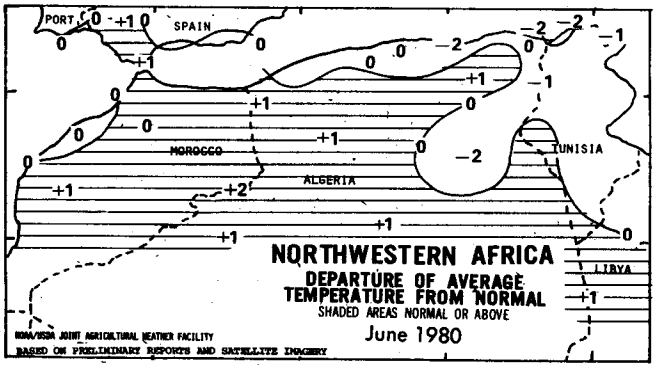


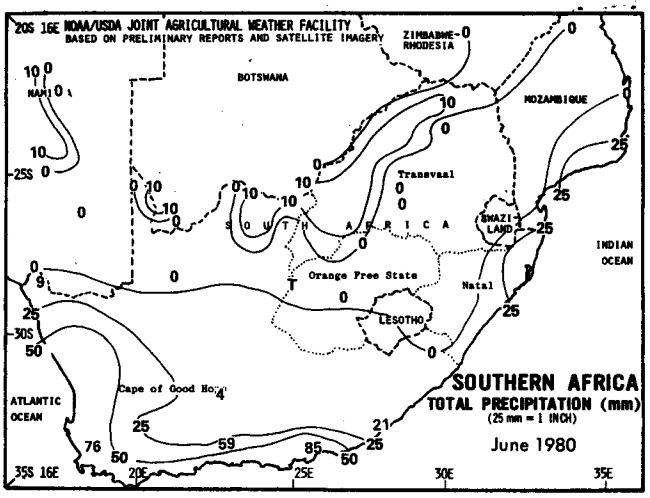


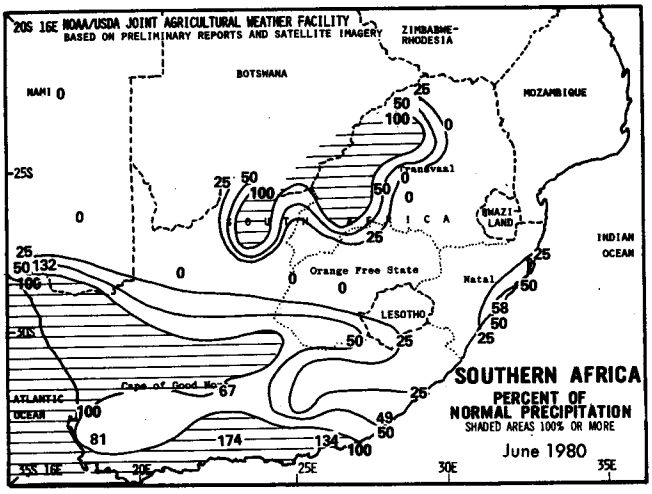

MOROCCO
ALGERIA
TUNISIA
LIBYA
NORTHWESTERN AFRICA
TOTAL PRECIPITATION (mm)
(25 mm = 1 INCH)
June 1980
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
BASED ON PRELIMINARY REPORTS AND SATELLITE IMAGERY

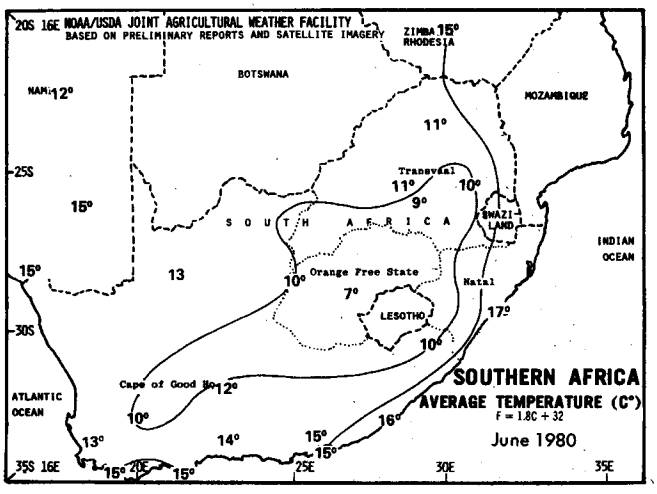

MOROCCO
ALGERIA
TUNISIA
LIBYA
NORTHWESTERN AFRICA
PERCENT OF
NORMAL PRECIPITATION
SHADED AREAS 100% OR MORE
June 1980
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
BASED ON PRELIMINARY REPORTS AND SATELLITE IMAGERY


SPAIN
MOROCCO
ALGERIA
TUNISIA
LIBYA
NORTHWESTERN AFRICA
AVERAGE TEMPERATURE (C°)
F = 1.8C + 32
June 1980
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
BASED ON PRELIMINARY REPORTS AND SATELLITE IMAGERY


SPAIN
MOROCCO
ALGERIA
TUNISIA
LIBYA
NORTHWESTERN AFRICA
DEPARTURE OF AVERAGE
TEMPERATURE FROM NORMAL
SHADED AREAS NORMAL OR ABOVE
June 1980
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
BASED ON PRELIMINARY REPORTS AND SATELLITE IMAGERY


20S 16E NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
BASED ON PRELIMINARY REPORTS AND SATELLITE IMAGERY
ZIMBABWE-RHODESIA
BOTSWANA
NAMIBIA
MOZAMBIQUE
Transvaal
SOUTH AFRICA
SWAZI-LAND
Orange Free State
Natal
LESOTHO
INDIAN OCEAN
ATLANTIC OCEAN
Cape of Good Hope
SOUTHERN AFRICA
TOTAL PRECIPITATION (mm)
(25 mm = 1 INCH)
June 1980
35S 16E
20E
25E
30E
35E


20S 16E NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
BASED ON PRELIMINARY REPORTS AND SATELLITE IMAGERY
ZIMBABWE-RHODESIA
BOTSWANA
NAMIBIA
MOZAMBIQUE
Transvaal
SOUTH AFRICA
SWAZI-LAND
Orange Free State
Natal
LESOTHO
INDIAN OCEAN
ATLANTIC OCEAN
Cape of Good Hope
SOUTHERN AFRICA
PERCENT OF
NORMAL PRECIPITATION
SHADED AREAS 100% OR MORE
June 1980
35S 16E
20E
25E
30E
35E


20S 16E NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
BASED ON PRELIMINARY REPORTS AND SATELLITE IMAGERY
ZIMBABWE-RHODESIA
BOTSWANA
NAMIBIA
MOZAMBIQUE
Transvaal
SOUTH AFRICA
SWAZI-LAND
Orange Free State
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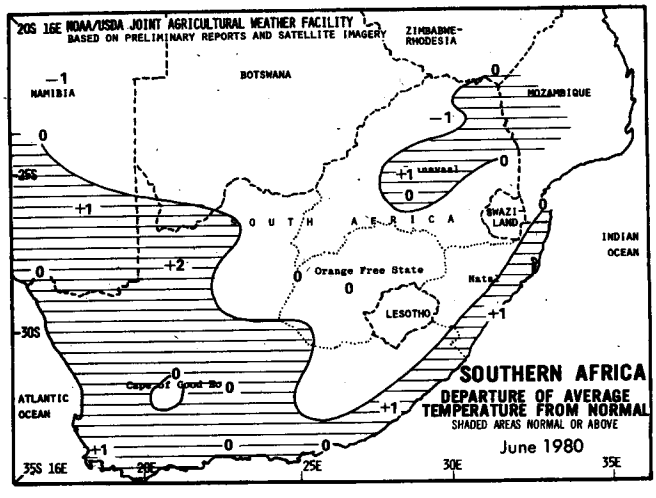
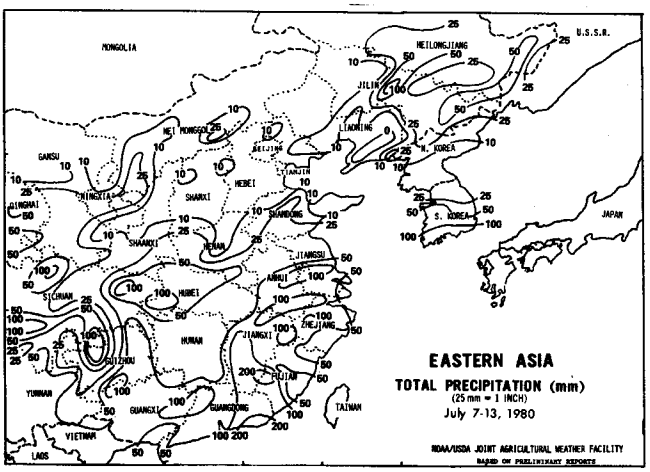
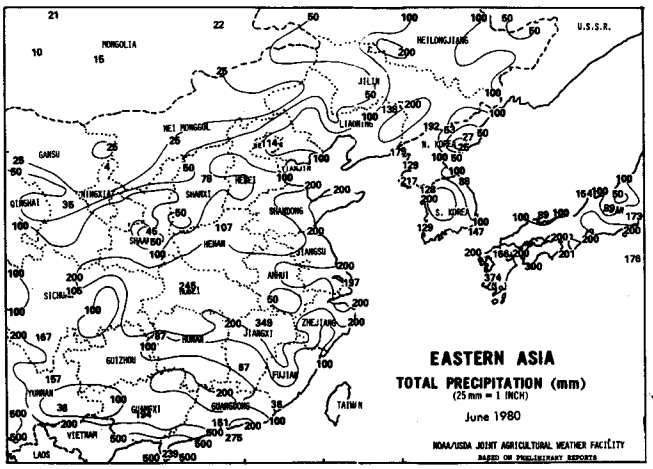
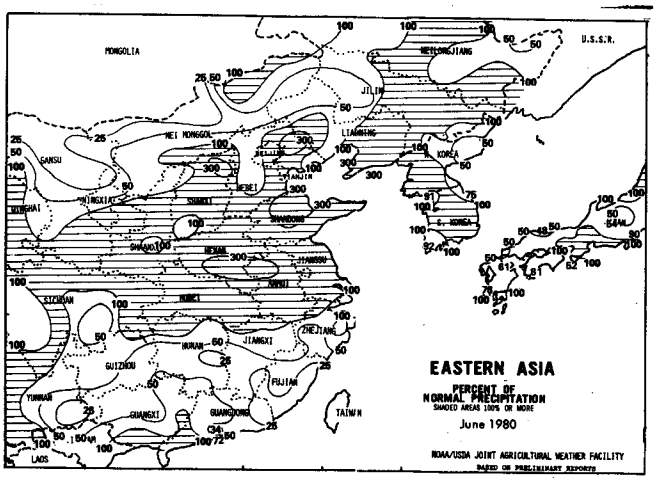
LESOTHO
INDIAN OCEAN
ATLANTIC OCEAN
Cape of Good Hope
SOUTHERN AFRICA
AVERAGE TEMPERATURE (C°)
F = 1.8C + 32
June 1980
35S 16E
20E
25E
30E
35E

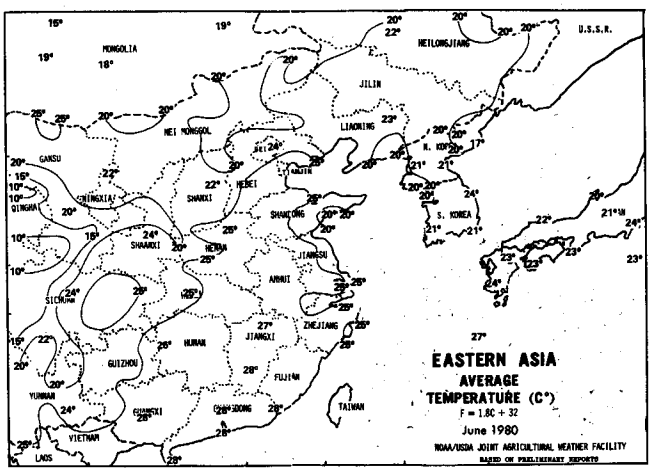

20S 16E NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
BASED ON PRELIMINARY REPORTS AND SATELLITE IMAGERY
ZIMBABWE-RHODESIA
BOTSWANA
NAMIBIA
MOZAMBIQUE
Transvaal
SOUTH AFRICA
SWAZI-LAND
Orange Free State
Natal
LESOTHO
INDIAN OCEAN
ATLANTIC OCEAN
Cape of Good Hope
SOUTHERN AFRICA
DEPARTURE OF AVERAGE
TEMPERATURE FROM NORMAL
SHADED AREAS NORMAL OR ABOVE
June 1980
35S 16E
20E
25E
30E
35E

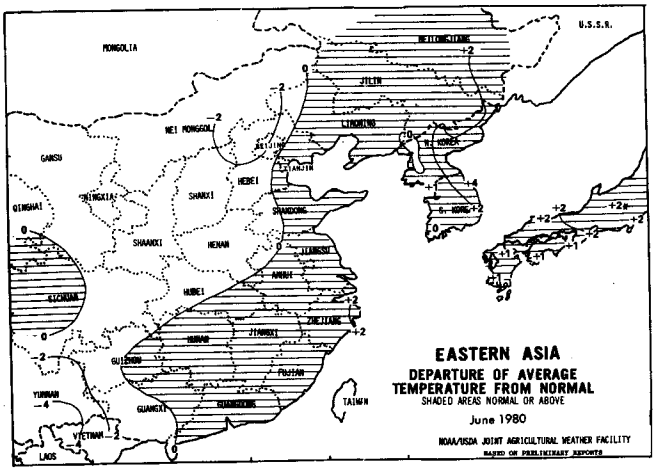
CHINA. The zone of heavy rainfall shifted southward this week, bringing relief to some crops along the southeast coast but interrupting harvest of early rice. Quite dry June weather in some southern areas had been causing concern for crops, and this moisture improved conditions. Drier weather over much of the North China Plain was a relief from the excessive rains of June, which had caused substantial problems for the winter grain harvest. In Manchuria, abundant rainfall continued a trend of recent weeks, and although most areas benefited from the moisture, some locations have become too wet for crops. Only scattered showers occurred in spring wheat areas of Inner Mongolia, where rainfall had been insufficient in June, and concern has been rising about reduced yields.



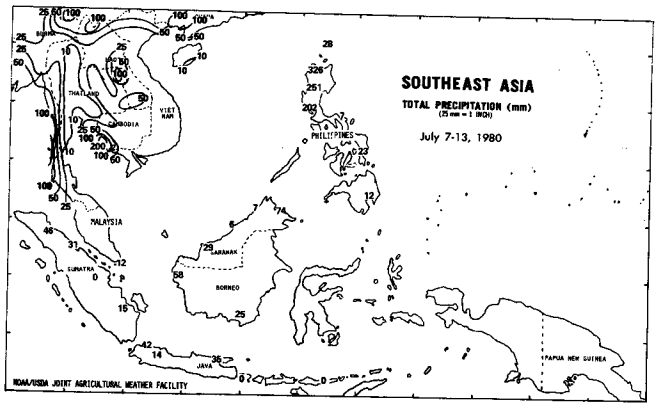


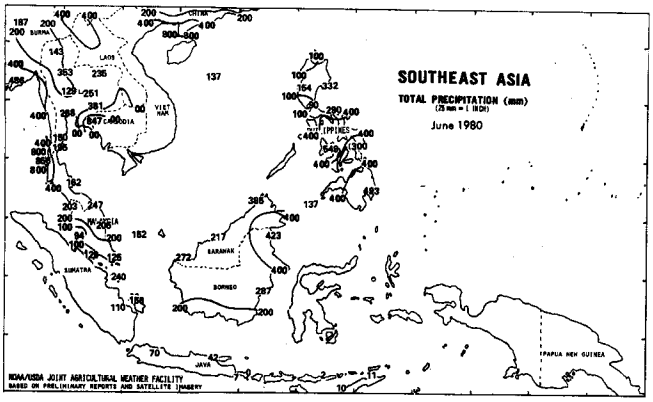


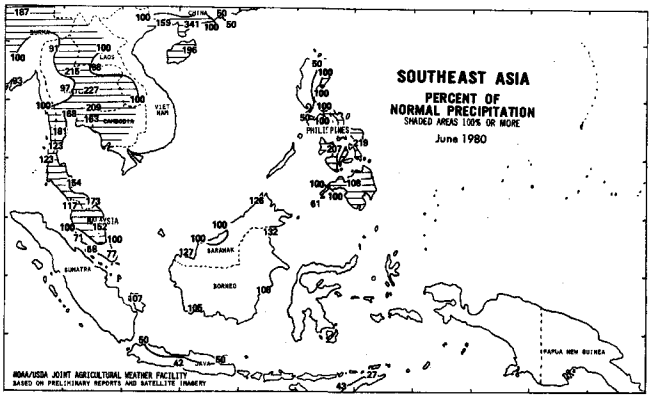


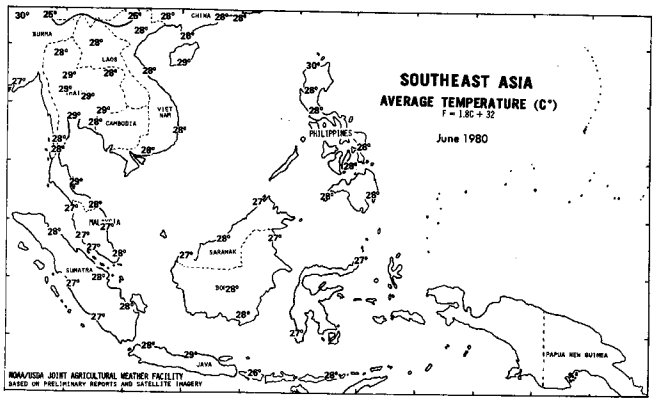


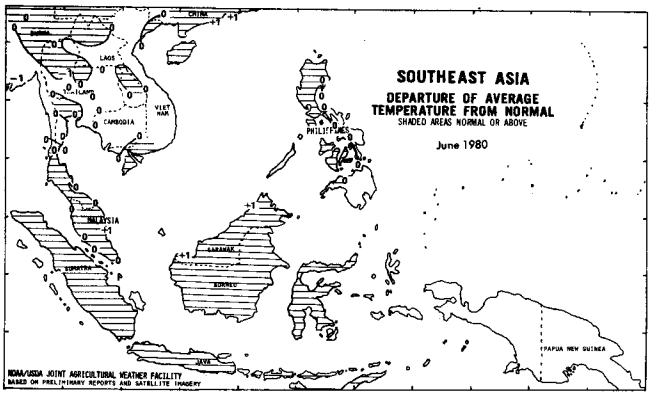
SOUTHEAST ASIA. Analysis of satellite photos and meteorological data showed several days of convective activity throughout Thailand last week. Weekly rainfall totals were below average, particularly in the rice and maize growing area north of Bangkok. Well-above-average rainfall in June provided ample moisture for both crop growth and some replenishment of water supplies. Crop growing conditions remain favorable. Only small amounts of rain fell in Peninsular Malaysia last week. Monthly totals in June were above average in the major rice-growing region of Malaysia. Preparations for planting of the main rice crop will begin soon.



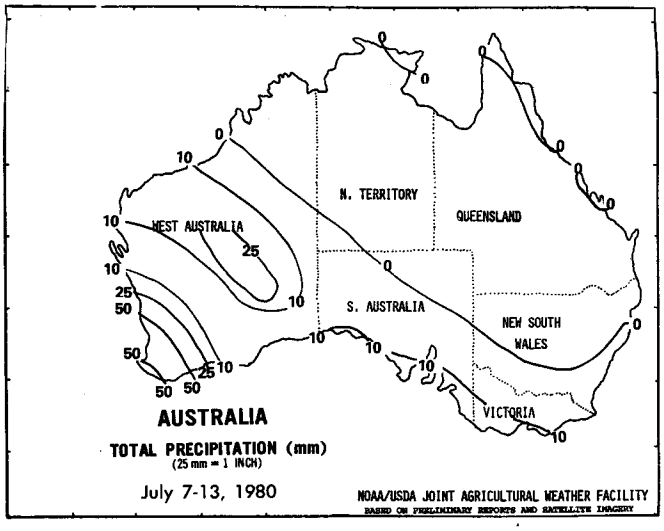


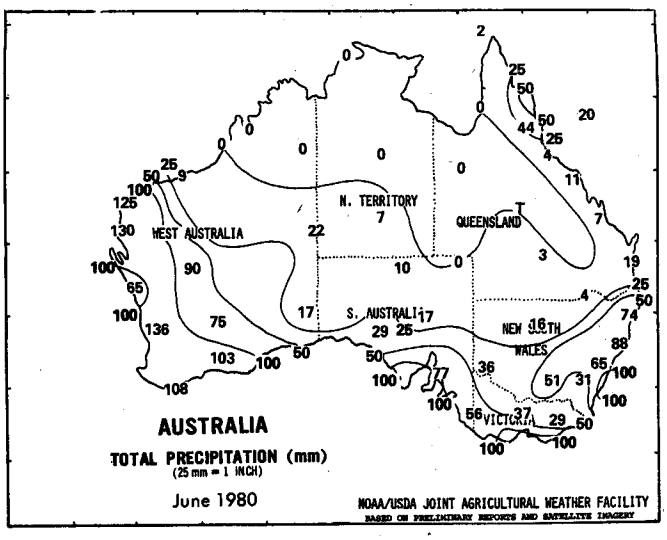


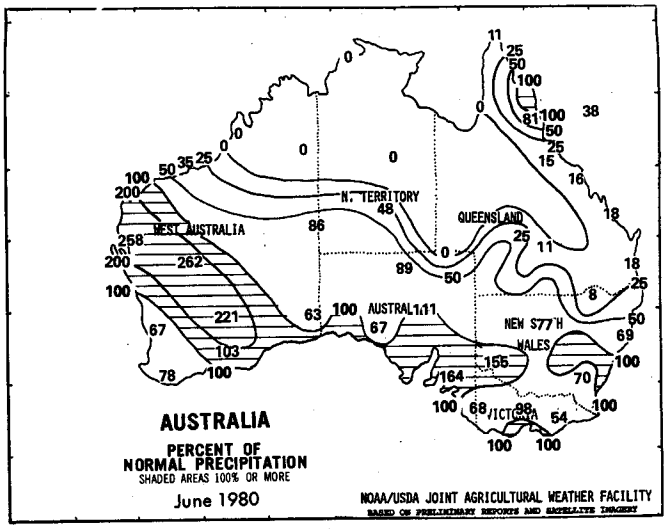


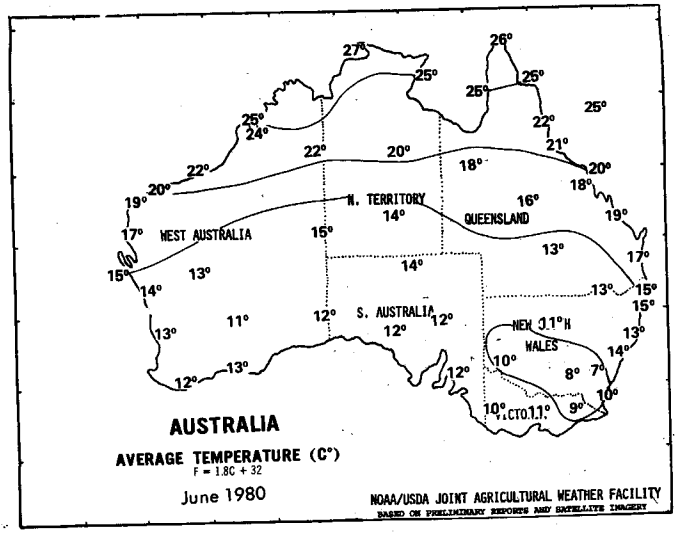


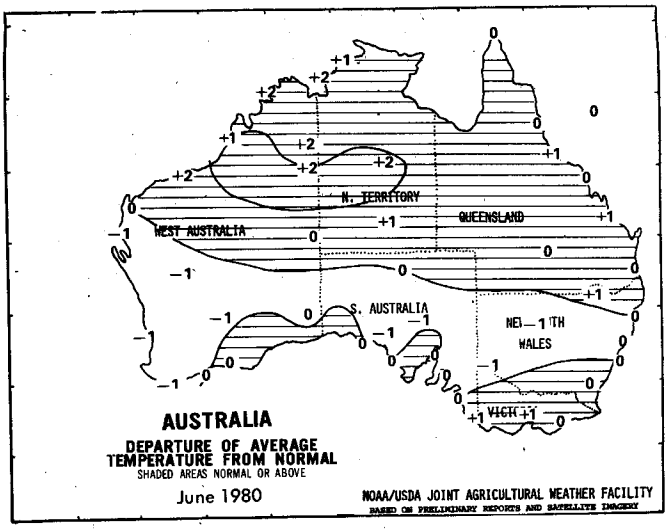
AUSTRALIA. A good supply of moisture is available for winter wheat growing in West and South Australia and Victoria. Storm systems, which brought above-normal rainfall to these regions in June, continued to track across the southern portion of the continent last week. Growing conditions are favorable in the western and southern winter wheat areas, including the southern half of New South Wales. No precipitation fell last week in northern New South Wales and Queensland where monthly rainfall in June was well below normal. Moisture is needed in this winter wheat area.



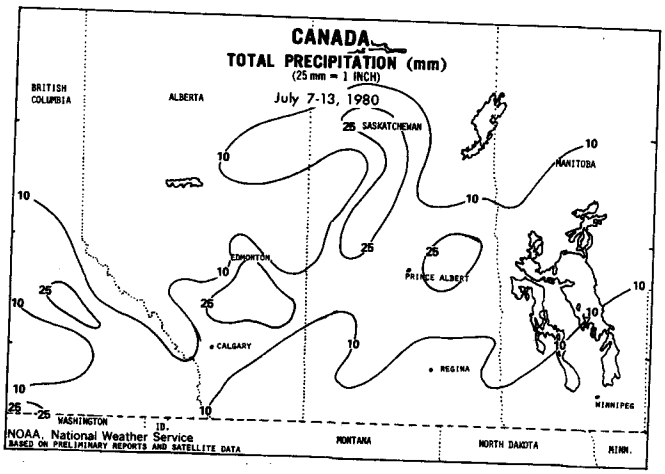


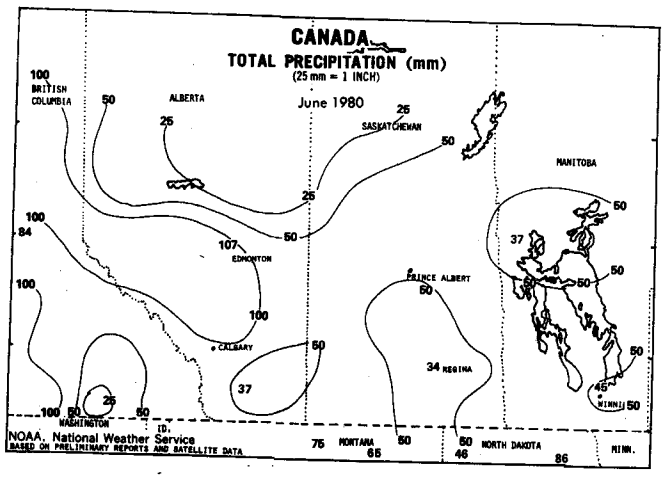


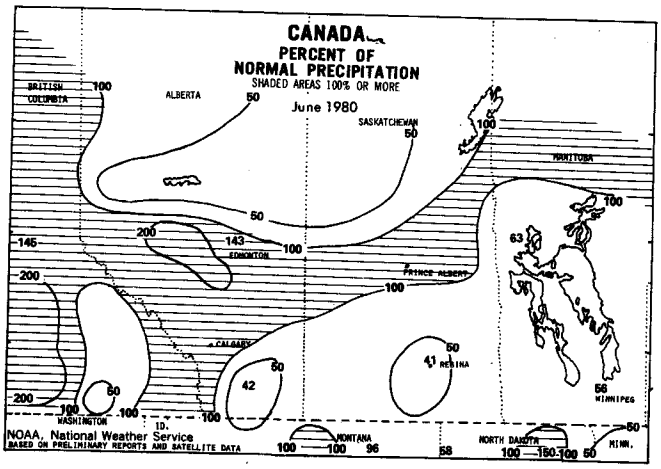


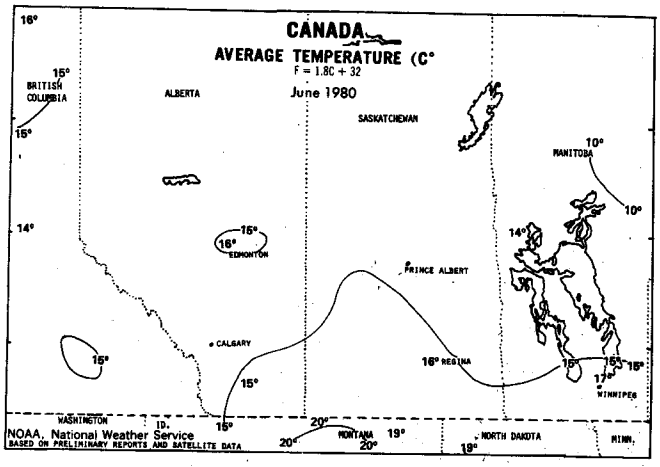


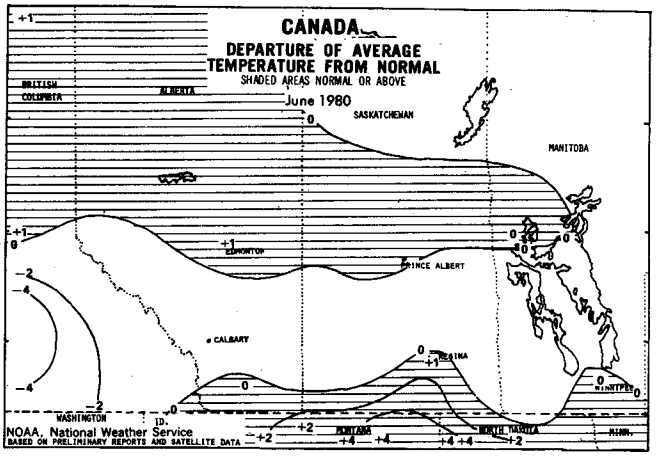
CANADA. Monthly rainfall totals ranged well below normal in June for a vast portion of the Canadian Prairies extending from southeastern Alberta through Manitoba. In Saskatchewan, only the northern fringe of the wheat area received near-normal monthly amounts of rain. This rainfall pattern continued through last week as scattered showers produced significant weekly totals in the western and northern portions of the grain belt. Elsewhere, minimal rainfall continued to cause severe stress on cereal crops, which are advancing well into flowering and heading. Monthly temperatures were neared the seasonal average for June throughout most of the wheat belt.



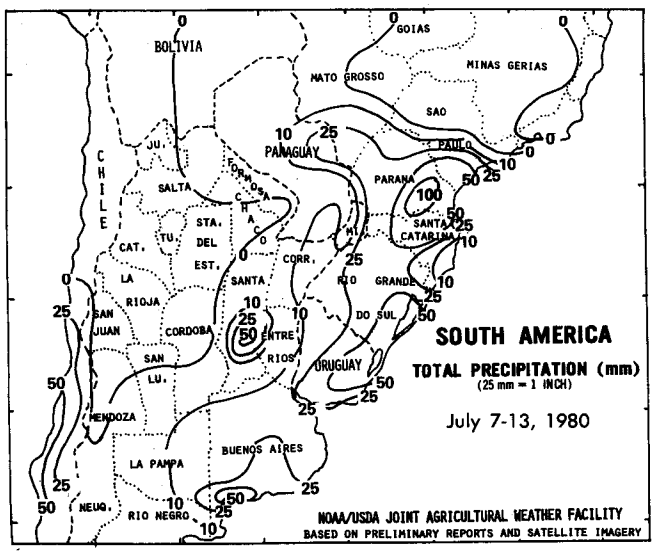


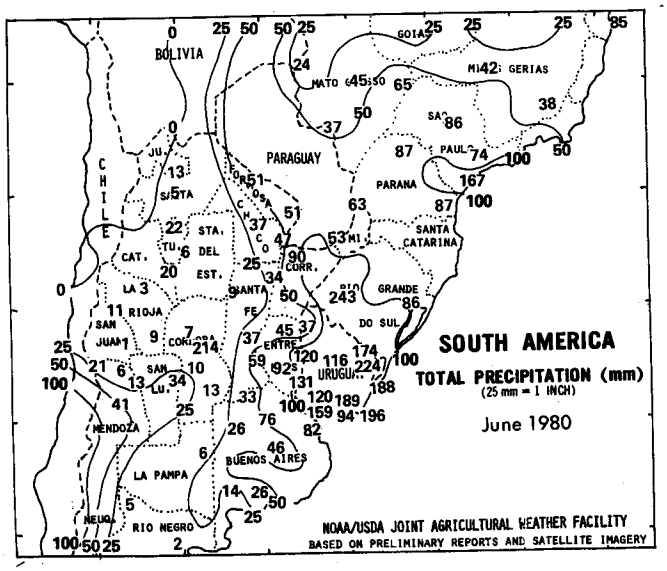


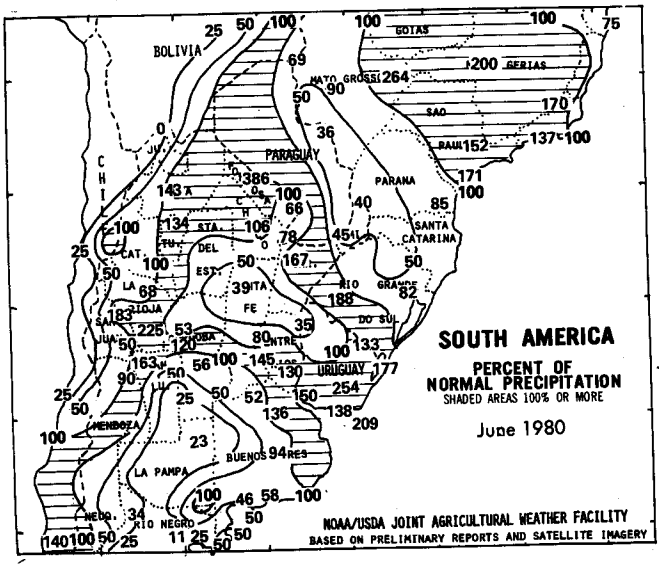


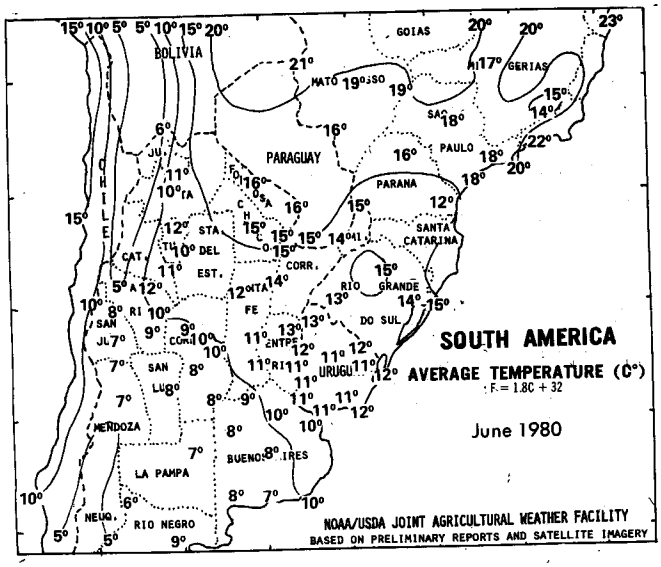


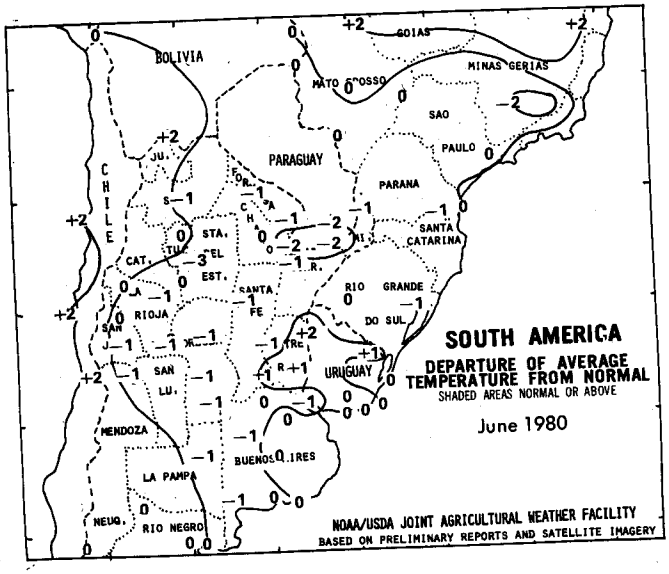
SOUTH AMERICA. During the past week, widespread showers fell in those parts of the winter wheat areas of Brazil and Argentina which received less than average monthly rainfall in June. Moisture supplies should be adequate for the wheat crop in both countries. In the coffee-growing area of northern Parana State in Brazil, average monthly temperatures were only slightly below normal in June. Coffee trees escaped any significant frost damage during the month.



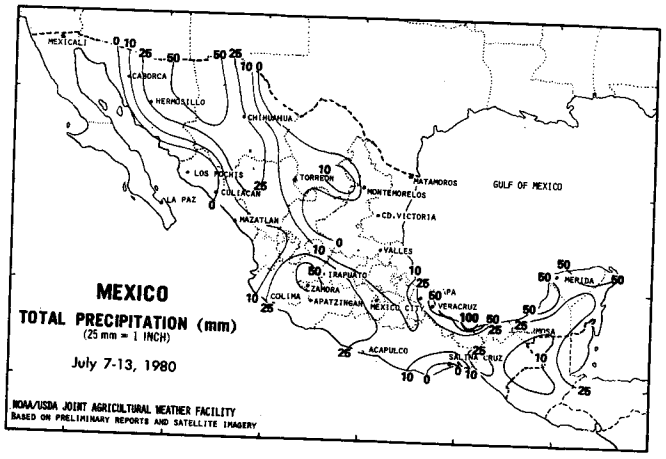


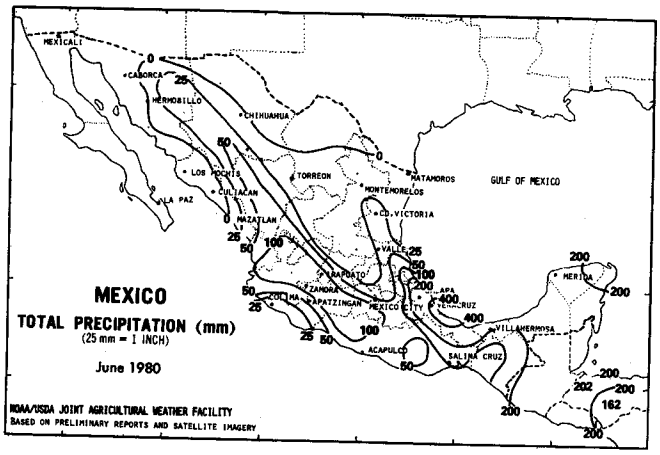


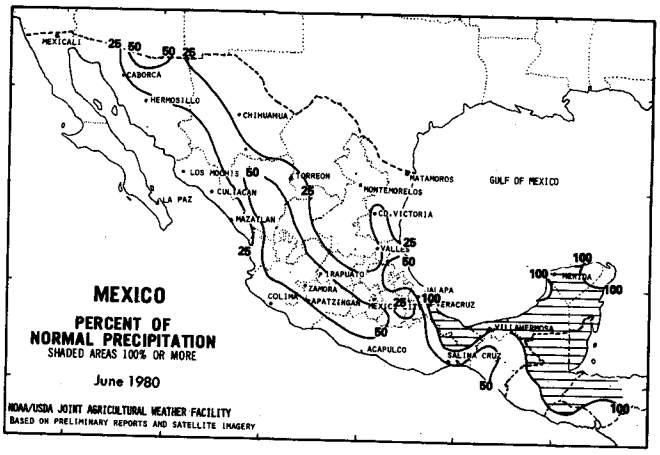


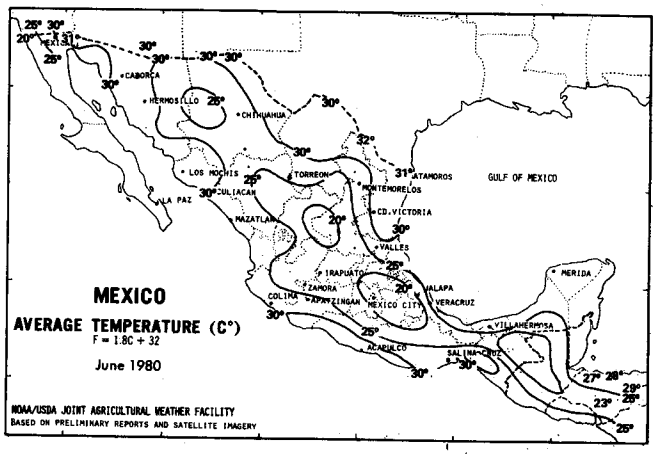


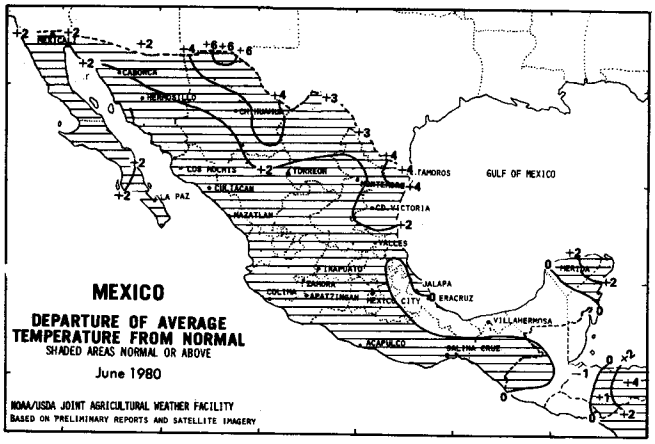
MEXICO. Showers continued to relieve drought conditions in northwestern Mexico where soybean, rice, and cotton crops rely heavily upon irrigation. Additional moisture is needed to sustain water supplies since monthly precipitation totals in June were well below the seasonal average. Monthly temperatures rose well above normal in northern Mexico as the heat wave caused severe stress on crop and livestock. Further south, soil moisture reserves remained adequate for corn and beans in the southern plateau.











CROP PROGRESS

FOR WEEK ENDING JULY 13, 1980

WINTER WHEAT
% HARVESTED

	1980	1979	AVG.
CALF	81	87	NA
COLO	46	31	53
IDA	0	0	0
ILL	90	86	89
IND	65	35	75
KANS	98	70	95
MO	92	71	90
MONT	0	0	0
NEBR	65	20	80
OHIO	15	25	50
OKLA	95	95	100
OREG	1/	1	NA
S DAK	31	0	17
TEX	97	97	99
WASH	0	1/	NA
15 STATES	71	57	NA
EXCL. STATES WITH NA	77	62	80

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

SPRING WHEAT
% HEADED

	1980	1979	AVG.
IDA	86	88	80
MINN	97	53	87
MONT	65	40	55
N D	79	40	69
S DAK	100	93	98
5 STATES	83	52	74

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

COTTON
SQUARING

	1980	1979	AVG.
ALA	84	81	79
ARIZ	96	NA	NA
ARK	97	NA	NA
CALF	35	2/	NA
GA	93	94	NA
LA	89	77	NA
MISS	96	92	83
MO	89	66	67
N MEX	100	100	100
N C	67	57	NA
OKLA	15	20	25
S C	95	93	90
TENN	95	62	85
TEX	66	49	NA
14 STATES	68	NA	NA
EXCL. STATES WITH NA	76	71	70

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

COTTON
% SETTING BOLLS

	1980	1979	AVG.
ALA	19	19	25
ARIZ	69	NA	NA
ARK	56	13	46
CALF	5	22	NA
GA	72	91	81
LA	37	23	NA
MISS	23	8	21
MO	45	0	30
N MEX	40	35	45
N C	21	29	NA
OKLA	0	0	0
S C	63	56	55
TENN	12	1	14
TEX	20	16	NA
14 STATES	23	NA	NA
EXCL. STATES WITH NA	29	14	27

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

SOYBEAN
% BLOOMING

	1980	1979	AVG.
ALA	18	19	19
ARK	20	NA	NA
GA	16	NA	NA
ILL	53	35	40
IND	35	20	25
IOWA	34	19	35
KANS	15	10	NA
KY	10	5	10
LA	19	22	NA
MICH	3	0	0
MINN	41	12	39
MISS	18	11	16
MO	20	0	17
NEBR	30	NA	NA
N C	1/	1/	NA
OHIO	20	25	NA
S C	3	7	9
TENN	15	8	16
13 STATES	27	NA	NA
EXCL. STATES WITH NA	31	17	27

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

RICE
% HEADED

	1980	1979	AVG.
ARK	1/	NA	NA
CALF	1/	1/	NA
LA	51	49	NA
MISS	3	2	4
TEX	83	82	NA
5 STATES	25	NA	NA

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

SORGHUM
% HEADED

	1980	1979	AVG.
COLO	0	0	0
KANS	2	2	2
MO	0	0	0
NEBR	0	0	1/
OKLA	10	5	15
S DAK	0	0	0
TEX	64	60	NA
7 STATES	24	22	NA

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

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

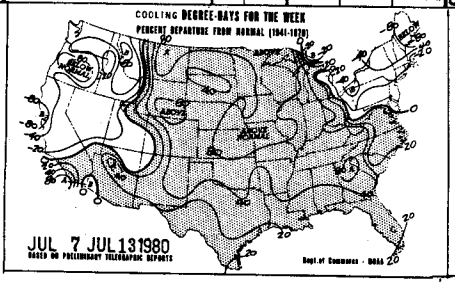
(continued from page 3)

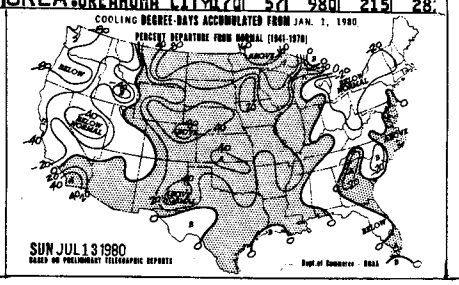
PASTURES AND LIVESTOCK: Pastures rated fair in most regions of the Nation, but conditions continued to deteriorate in many areas due to the hot, dry weather, Poor conditions were reported in the northern Plains and the Southwest. Supplemental feeding was necessary in many areas. In the northern Plains, some cattle have been moved to out-of-State pastures, and herd reduction continues. Hay supplies are short, and some out-of-State hay has been purchased. On the Great Plains, and in the south central States new growth on pastures is non-existent. Livestock are heat-stressed; weight gains have slowed, and milk production declined. Stock water supplies are becoming short in many areas.

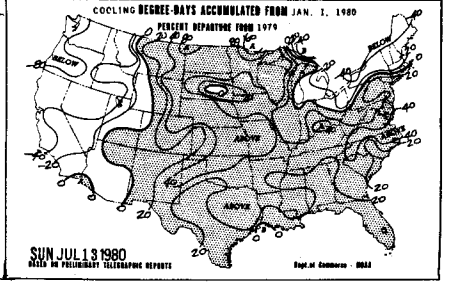
COOLING DEGREE DAYS (BASE 65°) FOR WEEK ENDING JUL. 13, 1980.

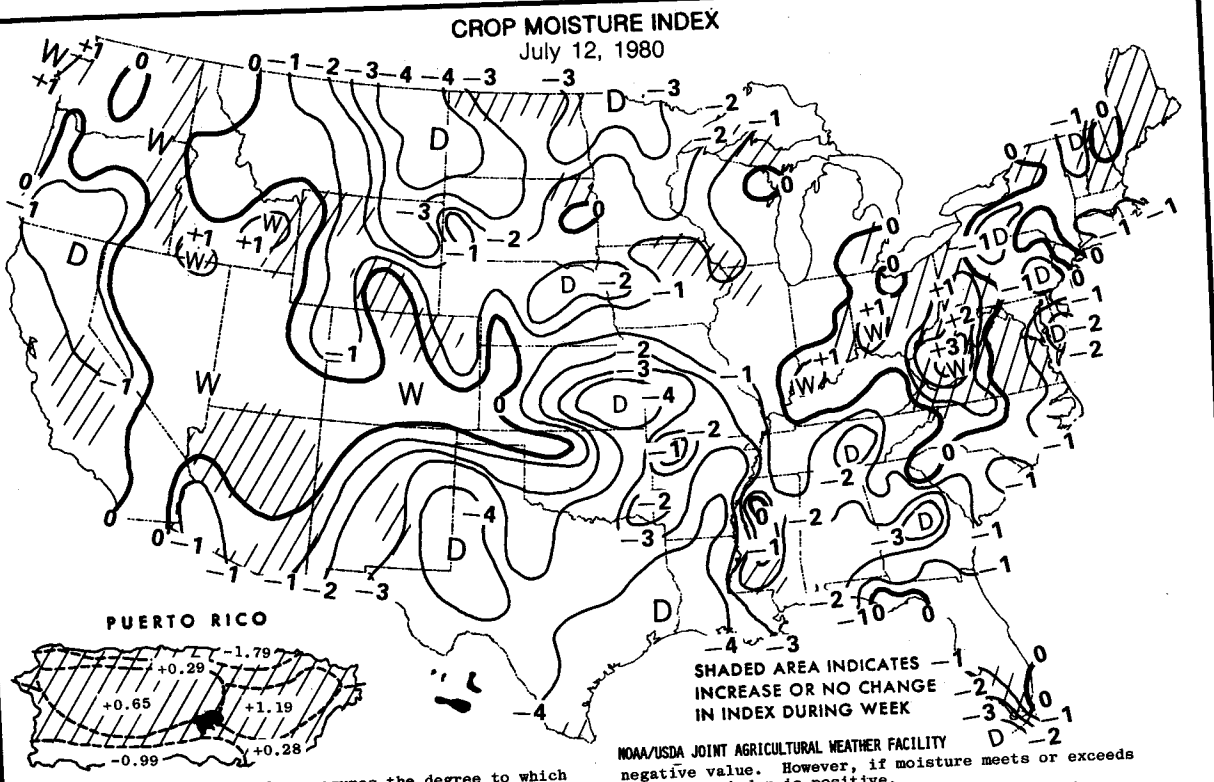
* BASED ON 1941-70 NORMALS. ACCUMULATIONS FROM JANUARY 1, 1980.

STATES AND STATIONS	WEEKLY TOTAL	WEEKLY DEPARTURE*	SEASONAL ACCUMULATION + TOTAL	SEASONAL ACCUMULATION + DEPARTURE*	SEASONAL ACCUMULATION + DEPARTURE FROM 1979-80
ALA. BIRMINGHAM	154	49	867	14	127
MOBILE	156	42	1252	33	125
MONTGOMERY	148	36	989	36	120
ARIZ. FLAGSTAFF	24	10	78	35	57
PHOENIX	213	30	1645	166	100
TUCSON	157	7	1216	7	100
WINSLOW	87	5	385	69	39
YUMA	195	4	1923	171	113
ARK. FORT SMITH	155	36	891	31	215
LITTLE ROCK	198	86	1017	178	147
CALIF. BAKERSFIELD	88	44	646	218	427
EUREKA	0	0	2	0	2
FRESNO	84	26	596	56	242
LOS ANGELES	30	2	151	0	73
RED BLUFF	60	41	452	295	390
SAN DIEGO	56	26	283	105	24
SAN FRANCISCO	1	1	12	20	35
STOCKTON	56	27	397	76	241
COLO. DENVER	90	37	388	181	137
GRAND JUNCTION	87	9	455	17	0
PUEBLO	128	51	492	98	120
CONN. BRIDGEPORT	55	6	234	8	57
HARTFORD	41	14	229	0	74
DEL. WILMINGTON	73	4	406	14	131
D.C. WASHINGTON	101	5	687	96	168
FLA. APALACHICOLA	142	30	1090	112	31
DAYTONA BEACH	141	29	1358	52	6
FORT MYERS	149	30	1917	196	48
JACKSONVILLE	150	38	1257	78	209
KEY WEST	151	16	2382	33	20
LAKELAND	138	24	1524	28	35
MIAMI	135	16	2002	103	16
ORLANDO	146	34	1465	30	16
TALLAHASSEE	146	34	1089	116	124
TAMPA	143	24	1536	44	19
WEST PALM BEACH	142	23	1772	20	159
GA. ATLANTA	166	75	990	292	267
AUGUSTA	153	48	901	16	179
MACON	167	55	1089	6	217
SAVANNAH	154	42	1113	32	101
IDAHO. BOISE	45	19	176	44	60
LEWISTON	48	9	130	75	116
POCATELLO	23	19	51	79	80
ILL. CAIRO	191	81	958	140	207
MOLINE	116	51	401	16	8
PEORIA	123	53	424	4	52
ROCKFORD	100	44	352	56	86
SPRINGFIELD	146	69	562	71	25
IND. EVANSVILLE	148	57	620	2	78
FORT WAYNE	72	16	276	42	1
INDIANAPOLIS	121	51	431	1	95
SOUTH BEND	94	45	366	86	46
IOWA. BURLINGTON	123	53	436	12	46
DES MOINES	145	75	524	140	149
DUBUQUE	101	52	362	116	138
SIOUX CITY	140	69	477	80	111
KANS. CONCORDIA	184	95	706	191	225
DODGE CITY	181	83	804	236	218
GOODLAND	127	54	457	111	62
TOPEKA	178	87	729	151	227
WICHITA	213	105	900	201	274
KY. LEXINGTON	108	31	475	55	110
LOUISVILLE	141	57	629	78	141
LA. BATON ROUGE	146	27	1314	92	222
LAKE CHARLES	147	28	1220	57	108
NEW ORLEANS	158	39	1431	164	101
SHREVEPORT	174	48	1228	104	291
MAINE. CARIBOU	0	19	42	1	70
PORTLAND	4	24	63	11	28
MD. BALTIMORE	72	9	447	4	70
MASS. BOSTON	51	6	218	27	52
MICH. ALPENA	26	5	91	19	6
DETROIT	44	5	185	7	14
FLINT	36	1	135	43	84
GRAND RAPIDS	61	12	220	12	31
HOUGHTON LAKE	18	3	80	21	31
LANSING	61	19	217	71	35
MARQUETTE	42	18	102	59	35
MUSKEGON	46	14	145	26	35
S. STE. MARIE	3	11	30	3	23
MINN. DULUTH	44	23	127	78	51
INTERNATL FALLS	51	30	190	121	126
MINNEAPOLIS	112	63	374	132	117
ROCHESTER	96	54	333	129	68
ST. CLOUD	73	31	196	26	55
MISS. JACKSON	159	42	1073	3	207
MERIDIAN	153	41	996	49	221
MO. COLUMBIA	186	102	725	180	272
KANSAS CITY	177	91	700	167	246
ST. LOUIS	174	81	749	94	85
SPRINGFIELD	146	57	671	102	278
MONT. BILLINGS	91	44	304	152	40
GLASGOW	73	36	280	140	83
GREAT FALLS	32	1	125	33	21
HAVRE	55	18	183	50	22
HELENA	14	14	50	19	47
KALISPELL	6	4	15	11	37
MILES CITY	98	32	416	164	107
MISSOULA	4	17	22	34	72
NEBR. GRAND ISLAND	147	68	569	152	190
LINCOLN	159	73	642	164	211
NORFOLK	141	66	534	158	141
NORTH PLATTE	108	42	461	141	138
OMAHA	147	63	614	121	133
VALENTINE	105	40	444	171	141
NEV. ELY	12	7	27	28	36
LAS VEGAS	174	2	112	129	317
RENO	15	20	52	55	46
WINNEMUCCA	29	13	100	34	110
N.H. CONCORD	12	23	114	8	39
N.J. ATLANTIC CITY	26	44	187	140	68
TRENTON	72	5	377	10	106
N. MEX. ALBUQUERQUE	117	21	626	75	86
ROSWELL	144	46	1011	301	284
N.Y. ALBANY	30	19	147	89	76
BINGHAMTON	26	9	134	11	22
BUFFALO	23	12	127	34	110
NEW YORK	67	15	385	19	86
ROCHESTER	28	15	165	43	82
SYRACUSE	28	21	154	60	80
N.C. ASHEVILLE	98	42	439	79	175
CHARLOTTE	108	17	617	83	125
GREENSBORO	88	4	465	141	66
HATTERAS	92	1	619	33	133
RALEIGH	93	9	711	103	303
WILMINGTON	135	30	922	61	131
N. DAK. BISMARCK	67	25	287	111	115
FARGO	74	32	323	146	106
WILLISTON	75	33	359	208	169
OHIO. AKRON-CANTON	30	19	155	111	44
CINCINNATI	95	23	439	15	161
CLEVELAND	32	15	158	95	79
COLUMBUS	77	19	318	26	27
DAYTON	95	30	367	29	31
TOLEDO	51	2	222	62	15
YOUNGSTOWN	13	29	87	127	98
OKLA. OKLAHOMA CITY	170	57	980	215	28
TULSA	201	83	1139	336	256
OREG. ASTORIA	0	4	0	4	2
BURNS	0	4	0	4	2
MEDFORD	30	26	68	82	53
PENDLETON	30	18	68	103	75
PORTLAND	30	30	60	156	130
SALEM	19	6	27	64	97
PA. ALLENTOWN	4	17	4	69	38
ERIE	61	2	317	1	63
HARRISBURG	15	13	107	30	34
PHILADELPHIA	68	9	374	69	98
PITTSBURGH	70	5	430	99	67
SCRANTON	47	2	244	22	19
R.I. PROVIDENCE	35	16	216	26	49
S.C. CHARLESTON	39	10	173	3	5
COLUMBIA	139	34	960	14	85
GREENVILLE	132	20	758	201	138
S. DAK. ABERDEEN	127	36	669	37	152
HURON	80	31	307	96	112
RAPID CITY	80	19	348	73	1
SIOUX FALLS	94	40	305	79	86
TENN. CHATTANOOGA	93	33	363	74	57
KNOXVILLE	155	57	638	95	92
MEMPHIS	129	38	684	19	182
NASHVILLE	194	80	1115	197	214
TEXAS. ABILENE	155	55	728	22	189
AMARILLO	172	41	1264	169	256
AUSTIN	136	40	721	117	238
BEAUMONT	163	28	1406	82	343
BROWNSVILLE	145	19	1169	103	12
CORPUS CHRISTI	163	30	2057	159	262
DEL RIO	145	6	1664	33	12
EL PASO	173	21	1726	94	384
FORT WORTH	151	25	1181	192	193
GALVESTON	145	19	1423	332	392
HOUSTON	145	19	1229	102	72
LUBBOCK	166	40	1469	144	280
MIDLAND	141	38	1021	270	160
SAN ANGELO	137	18	962	47	57
SAN ANTONIO	152	17	1127	119	99
VICTORIA	167	29	1490	91	196
WACO	155	22	1481	39	188
WICHITA FALLS	177	36	1296	45	357
UTAH. SALT LAKE CITY	200	57	1219	97	186
VT. BURLINGTON	85	5	327	30	130
VA. LYNCHBURG	16	20	135	17	83
NORFOLK	78	1	426	53	118
RICHMOND	97	6	635	33	193
ROANOKE	96	1	603	6	125
WASH. QUILLAYUTE	87	17	450	15	153
SEATTLE-TACOMA	0	2	0	2	0
SPOKANE	1	13	1	38	43
WALLA WALLA	20	16	28	88	88
YAKIMA	45	28	126	162	184
W. VA. BECKLEY	29	14	79	96	68
CHARLESTON	52	17	180	22	74
HUNTINGTON	79	9	353	136	44
PARKERSBURG	98	28	447	57	86
WIS. GREEN BAY	57	13	284	171	7
LACROSSE	63	28	175	23	20
MADISON	138	82	515	227	283
MILWAUKEE	85	50	265	81	79
WYO. CASPER	63	28	163	9	21
CHEYENNE	71	31	176	42	22
LANDER	65	30	181	72	55
SHERIDAN	67	29	169	67	1
	64	22	137	3	47









The Crop Moisture Index measures the degree to which moisture requirements of growing crops were met during the previous week. The index is computed from average weekly values of temperature and precipitation. These values are used to calculate the potential moisture demand. Taking into account the previous soil moisture condition and current rainfall, the actual moisture loss is determined.

If the potential moisture demand, or potential evapotranspiration, exceeds available moisture supplies, actual evapotranspiration is reduced and the CMI gives a negative value. However, if moisture meets or exceeds demand the index is positive.

Shaded areas indicate the index was unchanged or increased from the previous week's value; soils dried in the unshaded areas. Centers of positive and negative areas are identified by W for wet and D for dry.

Local moisture conditions may vary because of differences in rainfall distribution or soil types. The type of agriculture and stage of crop development must be considered when assessing the impact of moisture conditions based on the Crop Moisture Index. Some general guidelines follow.

UNSHADED AREAS:			INDEX DECREASED
ABOVE		3.0	SOME DRYING BUT STILL EXCESSIVELY WET
2.0	to	3.0	MORE DRY WEATHER NEED, WORK DELAYED
1.0	to	2.0	FAVORABLE, EXCEPT STILL TOO WET IN SPOTS
0	to	1.0	FAVORABLE FOR NORMAL GROWTH AND FIELDWORK
0	to	-1.0	TOPSOIL MOISTURE SHORT, GERMINATION SLOW
-1.0	to	-2.0	ABNORMALLY DRY, PROSPECTS DETERIORATING
-2.0	to	-3.0	TOO DRY, YIELD PROSPECTS REDUCED
-3.0	to	-4.0	POTENTIAL YIELDS SEVERELY CUT BY DROUGHT
BELOW		-4.0	EXTREMELY DRY, MOST CROPS RUINED

SHADED AREAS:			INDEX INCREASED OR DID NOT CHANGE
ABOVE		3.0	EXCESSIVELY WET, SOME FIELDS FLOODED
2.0	to	3.0	TOO WET, SOME STANDING WATER
1.0	to	2.0	PROSPECTS ABOVE NORMAL, SOME FIELDS TOO WET
0	to	1.0	MOISTURE ADEQUATE FOR PRESENT NEEDS
0	to	-1.0	PROSPECTS IMPROVED BUT RAIN STILL NEEDED
-1.0	to	-2.0	SOME IMPROVEMENT BUT STILL TOO DRY
-2.0	to	-3.0	DROUGHT EASED BUT STILL SERIOUS
-3.0	to	-4.0	DROUGHT CONTINUES, RAIN URGENTLY NEEDED
BELOW		-4.0	NOT ENOUGH RAIN, STILL EXTREMELY DRY

THE INTENSE HEAT AND LACK OF CURRENT RAIN IS RAPIDLY DEPLETING SOIL MOISTURE IN MANY AREAS OF THE NATION. EASTERN KANSAS IS NOW CLASSIFIED AS "EXTREMELY DRY - MOST CROPS RUINED". FORTUNATELY, THE WINTER WHEAT IS BEING HARVESTED AND IN GOOD CONDITION. ANOTHER EXTREMELY DRY AREA EXTENDS FROM SOUTHEASTERN TEXAS INTO EASTERN ARKANSAS, AND THREATENS THE MISSISSIPPI DELTA GROWING AREA. WEST TEXAS IS NEARLY DEPLETED OF SOIL MOISTURE AND IRRIGATION IS NECESSARY. THE EXTREMELY DRY AREA IN THE NORTHERN PLAINS CONTINUES UNABATED. ELSEWHERE, THE HOT WEATHER MOVING INTO THE EAST IS CAUSING A RAPID DEPLETION OF SOIL MOISTURE IN SPITE OF THE OCCURRENCE OF SCATTERED SHOWERS.

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Ray McInturff
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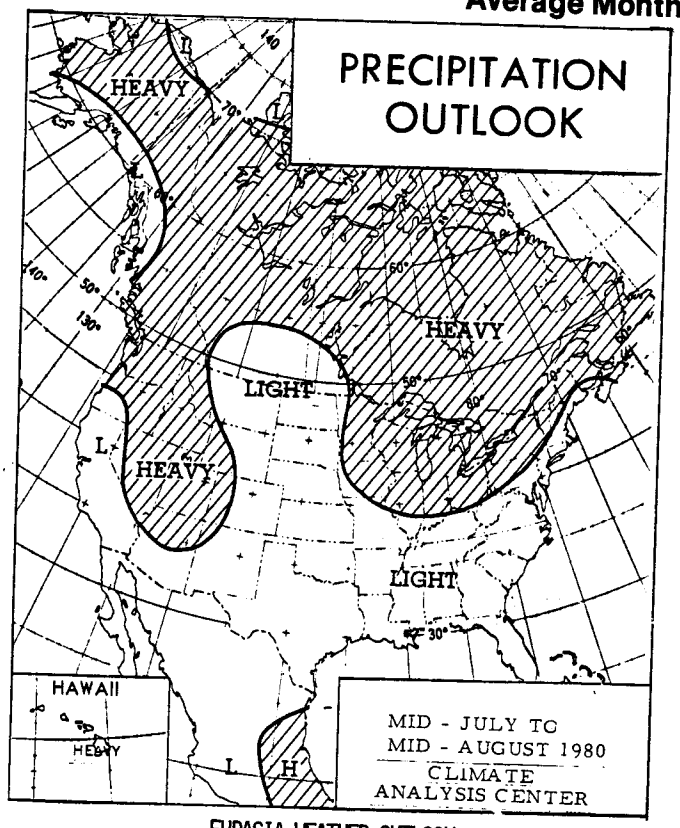

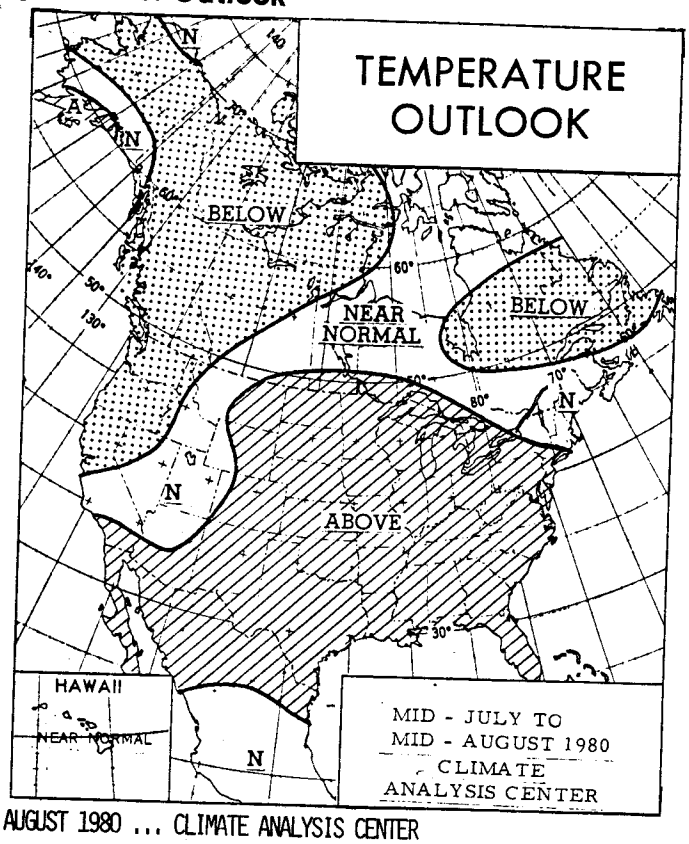
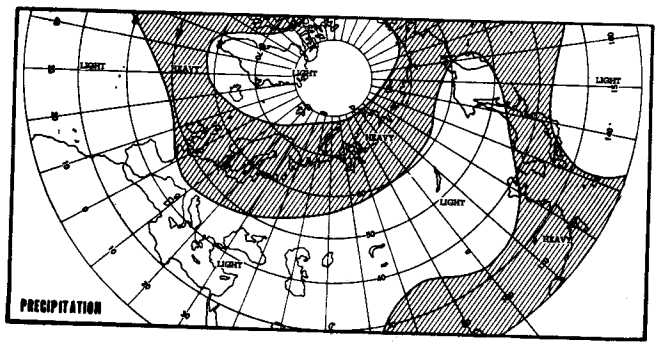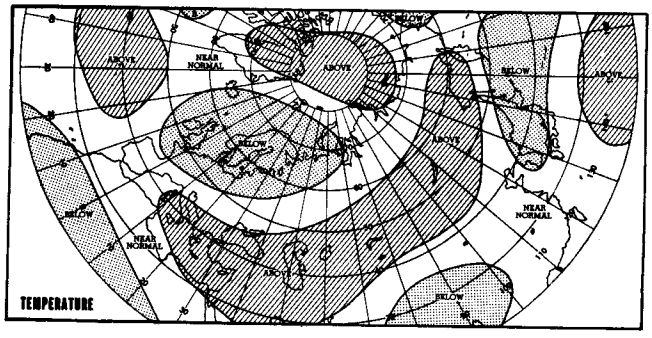
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