

WEEKLY WEATHER AND CROP BULLETIN

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

U.S. DEPARTMENT OF AGRICULTURE
Statistical Reporting Service
and World Agricultural Outlook Board

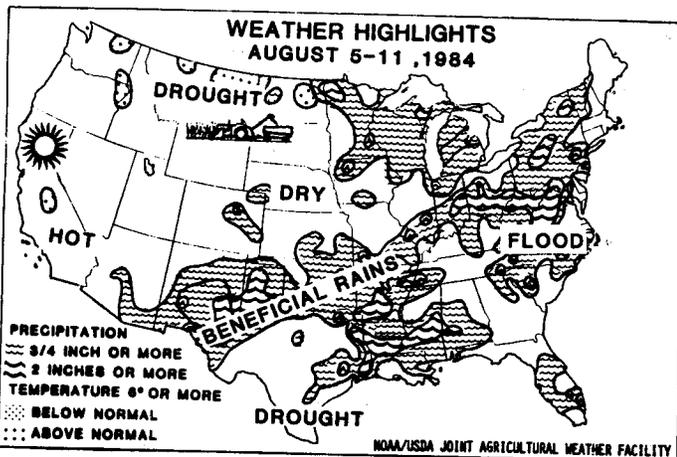
Volume 71, No. 32

WASHINGTON, D.C.

Aug. 14, 1984

National Weather Summary

August 5 to 11



HIGHLIGHTS: Showers and thunderstorms produced beneficial rain in eastern New Mexico, western Texas, eastern Oklahoma, and northeastward to the upper Ohio Valley. However, parts of the lower Ohio Valley remained dry. Little or no rain fell in the drought area of Montana, but some helpful rain fell in North Dakota. Much of the western Corn Belt had little rain, but some of the eastern part benefited from moderate showers. Heavy downpours on the eastern side of the Appalachians caused local flooding. Average temperatures were cooler than normal from New Mexico and Colorado to Alabama and Tennessee. Temperatures were much warmer than normal throughout most of the week in California, but cooled a little as the week ended. The northern Plains were much warmer than normal.

SUNDAY...Thunderstorms were widespread through the lower Mississippi and Tennessee Valleys, and scattered from the Ohio Valley to New England. Thunderstorms also broke out in parts of the central Plains, the Rockies, and the Northwest. Afternoon temperatures climbed to 100 degrees in parts of Kansas, and well into the nineties in most of the Plains.

MONDAY...Some thunderstorms occurred throughout the Rockies and in nearly all States east of the Rockies. Showers spread from the northern Rockies over the northern Plains to the Great Lakes regions and the Northeast. Afternoon temperatures soared throughout the Plains, and reached into the nineties as far east as Indiana.

TUESDAY...Showers and thunderstorms were concentrated from the southern Rockies to the Great

Lakes, and from the upper Ohio Valley through New England. Temperatures cooled slightly in the northern Plains but rose to the high nineties through Illinois.

WEDNESDAY...Beneficial showers fell in western Texas and Oklahoma. They were scattered northeastward, but in the Great Lakes region they were more concentrated. Afternoon temperatures in the Corn Belt ranged from the high nineties in Nebraska to the low nineties in Indiana. It was hot in the west coast States; temperatures throughout California climbed to well above 100 degrees.

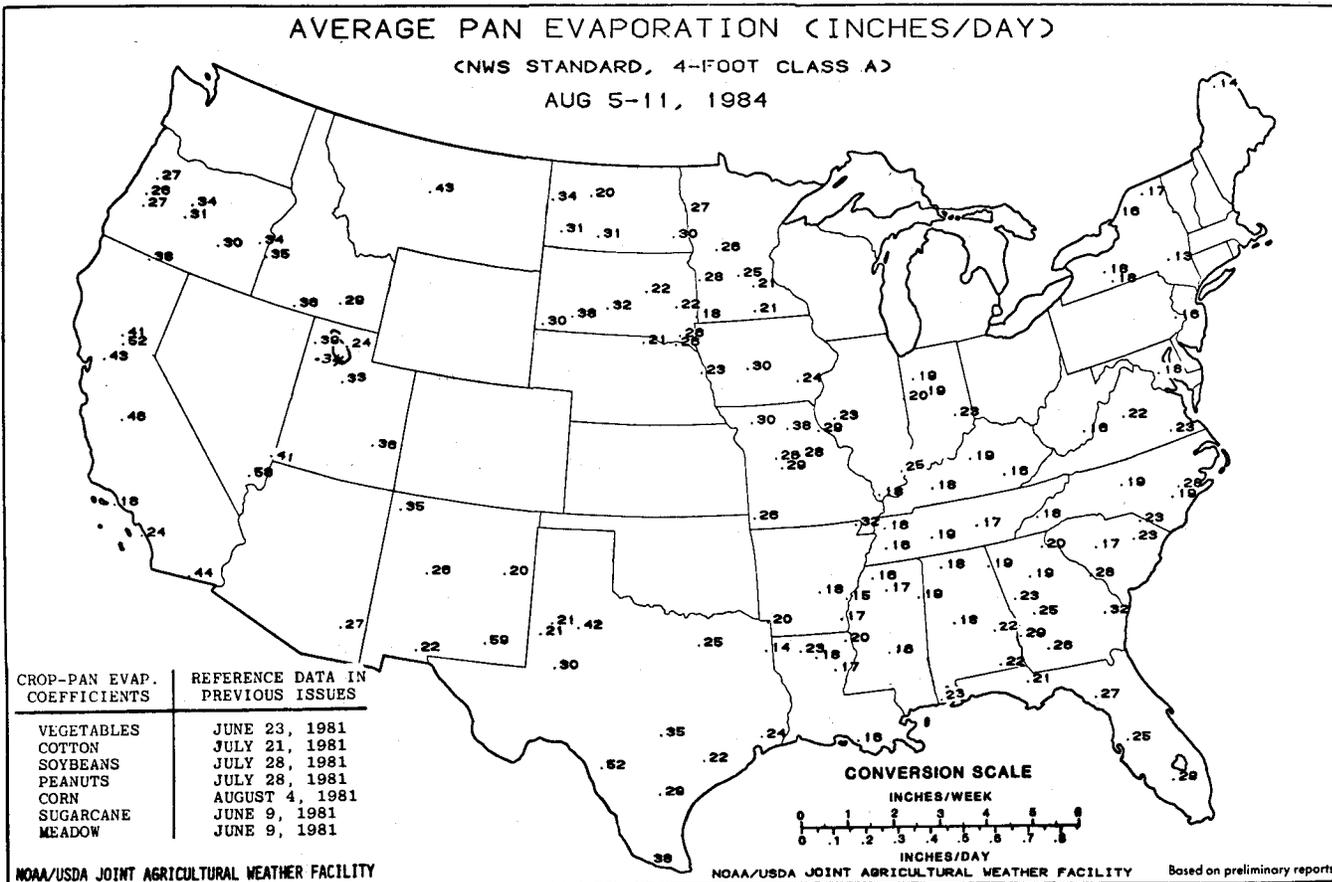
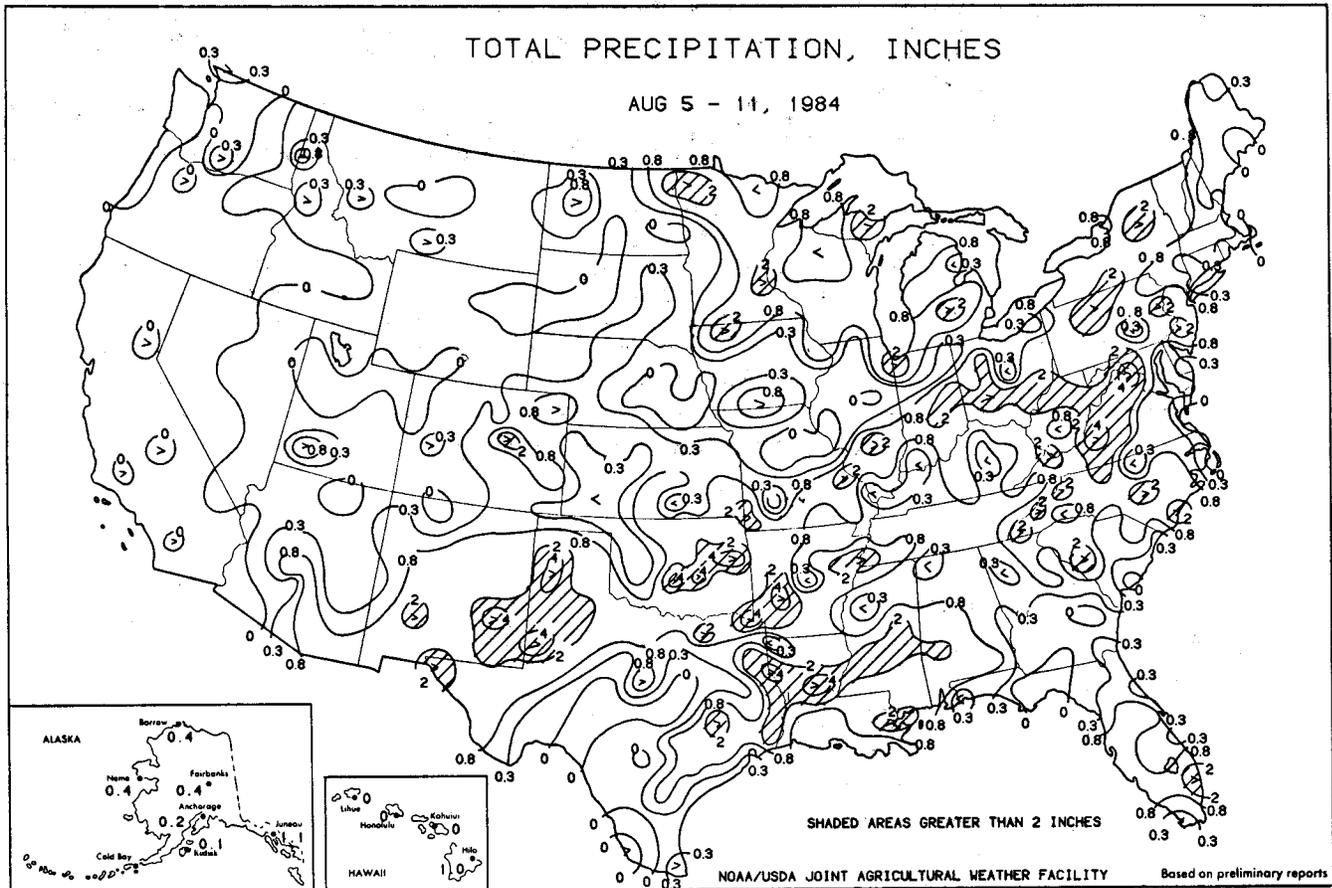
THURSDAY...Beneficial showers continued in the western Texas cotton area and in eastern Oklahoma. Showers and thunderstorms were scattered throughout the area east of the Mississippi River. A heat wave continued in the interior of California. Somewhat cooler weather covered most of the northern Plains.

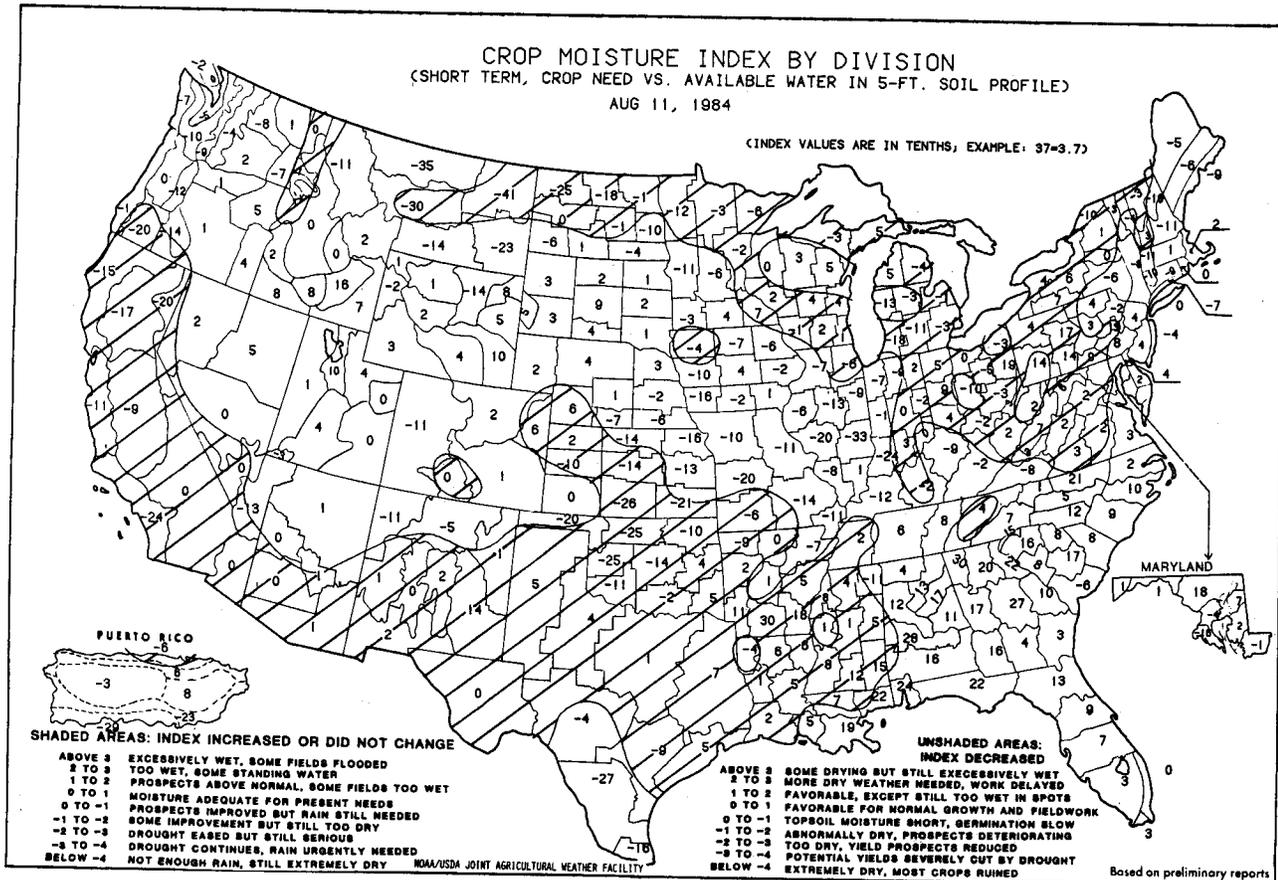
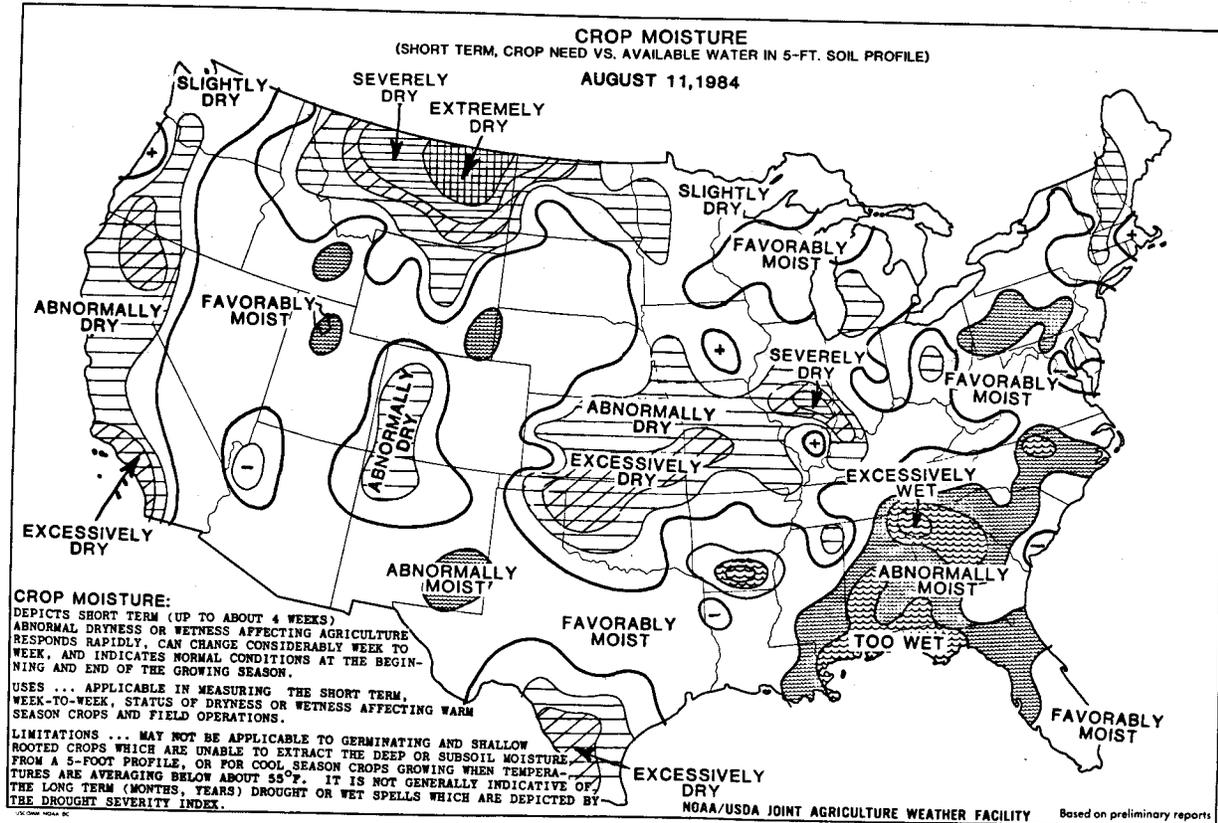
FRIDAY...More showers fell in western Texas and Oklahoma. Showers and thunderstorms were moderate to heavy in parts of the mid-Atlantic States and the upper Ohio Valley. High temperatures went above 100 degrees in the interior of California, and were near 100 degrees in eastern Montana.

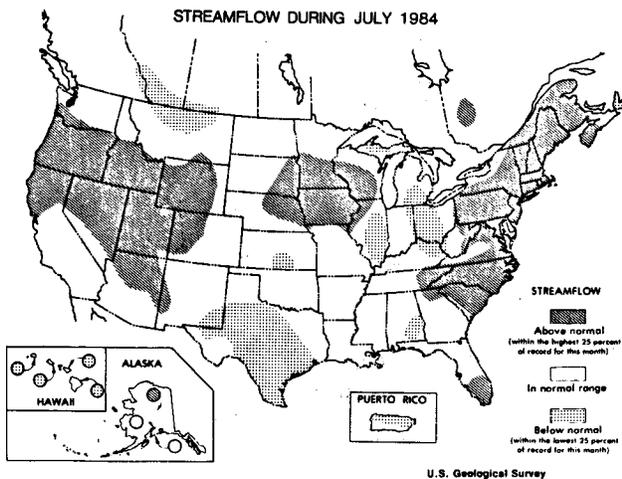
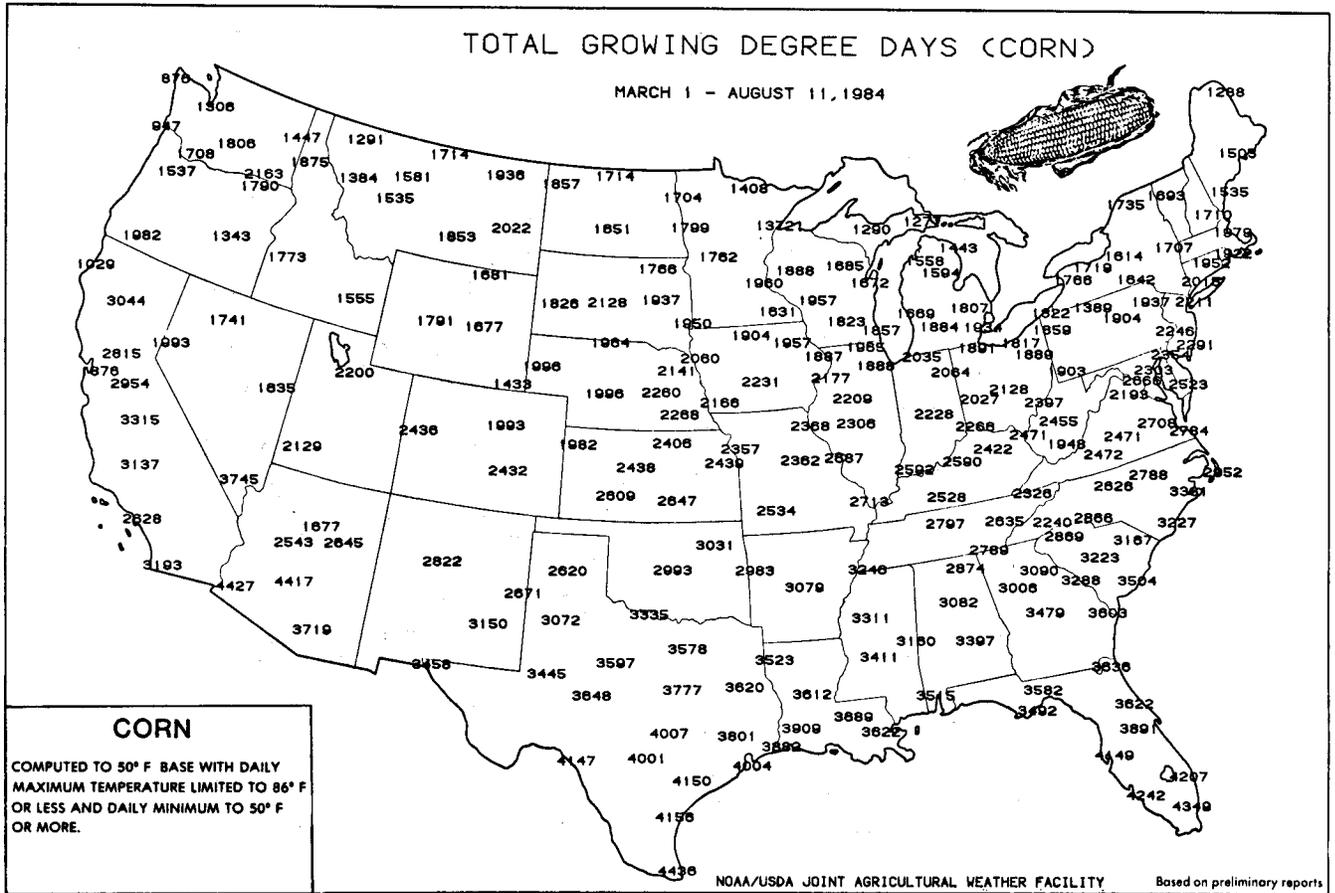
SATURDAY...Heavy rain caused local flooding through the eastern slopes of the Appalachians. Lesser amounts fell throughout the East and South. High temperatures were lower in California, but hot weather reached northward through eastern Washington. Very warm weather continued in eastern Montana and spread into North Dakota.

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Flows of most of the Nation's key index streams were average to well-above average in the first full month of summer, according to the U.S. Geological Survey (USGS), Department of the Interior.

A USGS network of 173 index gaging stations provided the regular month-end check of the status of streamflow conditions across the country. During July, flows at 83 sites (48 percent) were well-above average, that is, in the upper 25 percent of long-term record. Seventy-one stations (41 percent) were in the normal range. Only nineteen stations (about 11 percent) were in the lowest 25 percent of record.

The generally above-average streamflow was reflected in conditions of the three major U.S. rivers. The combined average flow of the Mississippi, St. Lawrence, and Columbia Rivers was 820 billion gallons per day (bgd), or 30 percent

above average for the month. The three rivers drain more than half of the lower 48 States, thus providing hydrologists with a quick check on the status of the Nation's water resources.

Average flows at the key USGS stream gaging stations were in the upper 25 percent of long-term record for July in most of the Northeast; the Middle Atlantic States into Georgia; and the upper Midwest, Rocky Mountains, and Pacific Northwest States.

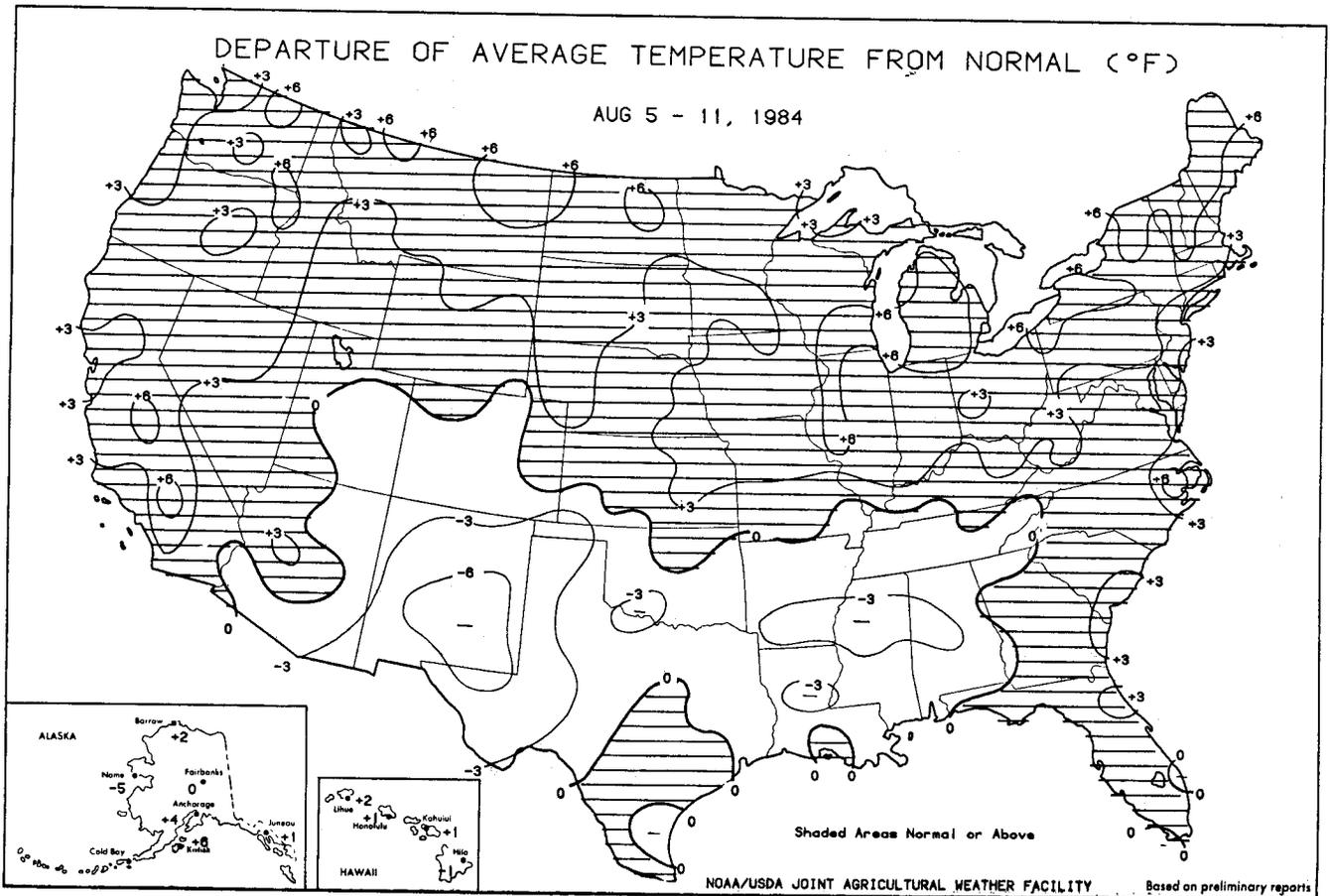
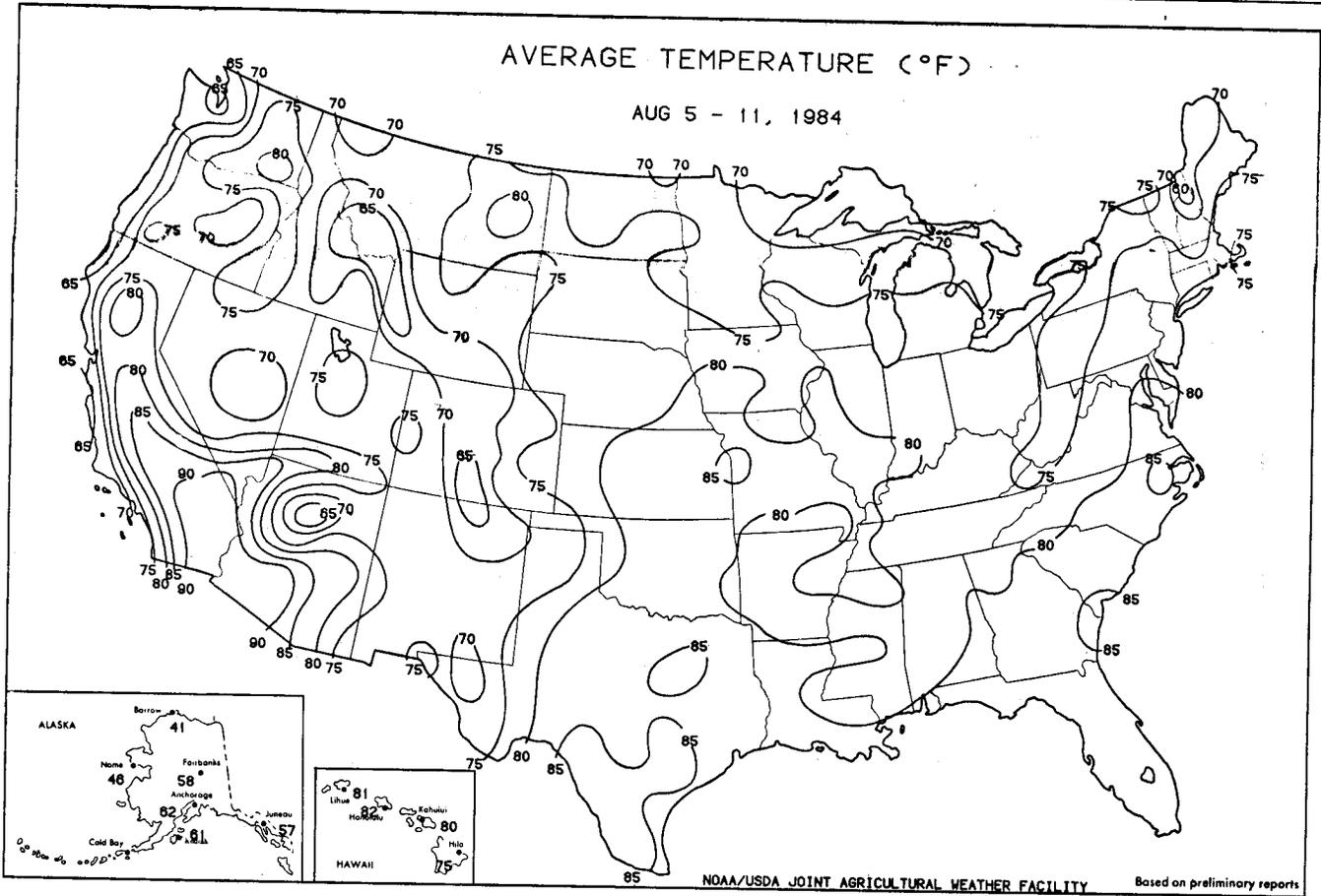
Record-high or near-record high average flows for July occurred at 18 key locations in 16 States: Alaska, California, Connecticut, Florida, Georgia, Iowa, Maine, Minnesota, Nevada, New Jersey, New York, Oregon, Pennsylvania, Rhode Island, South Carolina, and Vermont. For example, flow of the Etowah River at Canton, Georgia, averaged 1.1 bgd, the highest measured flow for July since record-keeping began at the site in 1936.

In contrast to the many reports of streamflow in the record-high range, record-low or near-record low flows occurred at seven sites; three in Hawaii, two in Texas--where drought conditions persisted--and one each in Alabama and Puerto Rico.

Hydrologist Hai Tang of the USGS National Center in Reston, Va., said that ground-water levels were above average over most of the country in July. Monthly low levels for July occurred at key observation wells in San Antonio and El Paso, Texas, reflecting the general below-average precipitation and streamflow conditions that have persisted in parts of Texas for 11 of the last 12 months.

Tang said the contents of reservoirs were generally average to above average in most of the country, with exceptions noted in Texas, southern Oklahoma and western Kansas.

(continued on p. 6)



Weather Data for the Week Ending AUGUST 11, 1984

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE JUNE 3	PCT. NORMAL SINCE JUNE 3	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE °F			
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	88	68	94	67	78	-2	.5	-.4	.3	8.6	82	32.7	89	96	54	1	0	2	0
MOBILE	89	70	91	68	80	-3	1.5	-.1	.5	15.9	104	39.4	93	88	53	4	0	3	2
MONTGOMERY	89	70	92	69	79	-3	.5	0	.5	15.1	162	37.6	116	94	57	4	0	2	0
AK ANCHORAGE	68	55	72	53	62	4	.2	-.3	.1	2.4	63	6.7	90	83	55	0	0	3	0
BARROW	46	35	54	31	41	2	.4	-.1	.2	1.5	91	2.3	89	96	79	0	3	4	0
FAIRBANKS	67	49	74	44	58	0	.4	0	.4	3.9	103	7.1	118	97	53	0	0	3	0
JUNEAU	62	51	76	49	57	1	1.1	0	.4	11.3	128	30.4	117	98	73	0	0	6	0
KODIAK	68	54	73	49	61	6	.4	-1.0	0	8.2	91	45.1	112	93	66	0	0	2	0
NOME	53	40	55	34	46	-5	.4	-.3	.4	5.9	129	8.1	105	95	76	0	0	2	0
AZ PHOENIX	102	81	107	76	91	1	.3	0	.1	5.6	422	7.0	181	65	31	7	0	3	0
PRESCOTT	87	61	92	59	74	3	.5	-.3	.5	5.1	99	5.4	48	69	27	2	0	3	0
TUCSON	93	72	100	68	83	-2	1.5	1.0	.8	5.5	155	6.6	106	70	32	4	0	5	1
YUMA	104	83	110	80	94	1	.9	-.1	.1	2.1	734	2.8	220	73	27	7	0	5	0
AR FORT SMITH	90	70	95	68	80	-2	.9	-.3	.7	6.3	80	20.6	82	98	55	5	0	5	1
LITTLE ROCK	89	70	92	67	80	-2	.1	-.5	.1	5.2	73	27.2	91	94	66	4	0	2	0
CA BAKERSFIELD	100	70	104	65	85	1	0	0	0	T	T	1.3	33	63	22	7	0	2	0
EUREKA	65	54	66	51	60	3	T	-.1	T	1.1	150	16.8	74	94	76	7	0	0	0
FRESNO	102	70	106	64	86	6	0	0	0	.2	250	2.1	30	60	19	0	0	0	0
LOS ANGELES	76	66	83	63	71	1	0	0	0	T	0	1.7	20	84	58	0	0	0	0
RED BLUFF	100	68	109	62	84	3	0	0	0	.1	10	4.3	33	61	20	7	0	0	0
SACRAMENTO	96	61	103	57	78	3	0	0	0	.1	69	3.0	28	75	22	5	0	0	0
SAN DIEGO	78	71	81	69	75	3	0	0	0	.2	350	1.4	23	88	69	2	0	0	0
SAN FRANCISCO	79	54	94	52	67	4	T	0	T	T	21	4.0	32	89	46	1	0	1	0
CO DENVER	85	58	88	50	72	-1	.1	-.3	.1	4.2	101	9.4	87	75	27	0	0	0	0
GRAND JUNCTION	92	62	94	58	77	0	T	-.2	T	2.3	187	6.0	129	60	20	6	0	2	0
PUEBLO	89	60	92	53	75	-1	.4	0	.4	6.8	181	10.4	139	88	27	4	0	0	0
CT BRIDGEPORT	83	70	90	67	77	3	.1	-.7	.1	10.9	142	33.1	132	91	64	4	1	2	1
HARTFORD	86	65	91	61	76	3	.5	-.4	.5	7.2	93	33.3	127	93	53	2	0	0	1
DC WASHINGTON	88	74	91	70	81	3	.1	-.9	.1	7.1	80	25.9	107	89	58	4	0	3	0
FL APALACHICOLA	90	74	92	73	82	0	T	-1.6	T	21.8	150	46.0	144	87	59	5	0	0	0
DAYTONA BEACH	94	75	97	73	84	3	.3	-1.1	.3	9.8	70	27.4	97	93	52	7	0	1	0
JACKSONVILLE	92	73	94	72	83	2	.7	-.8	.7	11.6	80	28.7	87	94	51	7	0	1	1
KEY WEST	88	79	90	77	84	-1	.1	-.9	.1	11.2	110	27.7	139	81	61	1	0	1	0
MIAMI	93	76	96	70	84	1	2.4	1.0	2.4	17.8	103	39.8	120	91	50	7	0	2	1
ORLANDO	92	75	94	73	84	1	1.7	.2	1.6	14.3	81	29.4	92	99	56	7	0	3	1
TALLAHASSEE	94	71	95	68	82	1	T	-1.7	T	13.7	76	44.9	105	100	48	7	0	0	0
TAMPA	91	76	94	75	84	2	1.8	0	1.1	12.3	79	23.2	79	90	58	7	0	4	2
WEST PALM BEACH	90	74	93	70	82	-1	2.0	-.9	2.0	15.8	101	41.1	124	97	61	4	0	1	1
GA ATLANTA	87	70	89	69	79	0	.1	-.1	.1	12.7	133	42.4	127	90	53	0	0	1	0
AUGUSTA	93	72	94	71	82	2	2.1	1.1	1.3	12.0	124	40.3	135	89	48	6	0	3	2
MACON	94	74	95	73	84	2	.1	-.8	.1	16.1	167	39.0	126	88	51	7	0	2	0
SAVANNAH	96	74	97	74	85	4	.7	-.8	.7	10.7	69	36.6	109	91	45	7	0	1	1
HI HILO	82	69	84	65	75	-1	1.0	-1.4	.4	13.0	70	55.9	72	87	58	0	0	5	0
HONOLULU	90	73	92	67	82	0	.1	-.1	0	.3	23	5.1	36	77	44	5	0	0	0
KAHULUI	90	70	93	64	80	1	0	-.1	0	.3	30	6.4	48	70	46	5	0	0	0
LIHUE	85	77	86	76	81	2	T	-.4	T	2.1	49	10.1	40	72	55	0	0	0	0
ID BOISE	94	62	101	50	78	5	T	-.1	T	1.7	130	7.5	101	52	16	5	0	0	0
LEWISTON	95	62	105	53	79	5	.1	-.1	.1	1.9	92	7.2	90	66	19	6	0	1	0
POCATELLO	90	54	98	48	72	2	T	-.1	T	3.9	227	9.9	141	77	21	4	0	0	0
IL CHICAGO	88	66	94	61	77	4	1.6	-.8	1.4	6.7	75	20.9	98	92	52	3	0	2	1
MOLINE	92	69	97	60	81	7	.1	-.8	.1	8.5	80	22.8	93	96	47	5	0	1	0
PEORIA	90	68	94	63	79	5	.1	-.6	.1	8.1	89	24.8	109	97	55	4	0	1	0
QUINCY	91	68	95	62	79	4	0	-.9	0	8.8	90	24.8	103	83	45	5	0	0	0
ROCKFORD	89	67	94	64	78	6	.3	-.6	.3	7.1	68	18.3	77	96	50	3	0	2	0
SPRINGFIELD	93	69	96	63	81	6	T	-.7	T	5.8	69	24.3	109	93	49	5	0	1	0
IN EVANSVILLE	90	70	94	68	80	3	.1	-.7	.1	4.9	57	24.1	86	95	53	4	0	2	0
FORT WAYNE	87	69	92	64	78	6	.6	-.7	.1	4.5	54	18.5	83	97	61	1	0	4	0
INDIANAPOLIS	88	68	92	64	78	4	2.0	1.1	1.3	8.5	88	24.0	93	100	66	2	0	1	1
SOUTH BEND	87	70	90	66	78	6	.9	0	.7	6.6	73	19.3	82	85	51	2	0	5	1
IA DES MOINES	92	70	97	62	81	5	.1	-.8	.1	14.2	161	29.1	142	87	46	5	0	1	0
SIoux CITY	88	66	95	57	77	2	.1	-.6	.1	9.5	112	24.8	141	93	49	3	0	2	0
WATERLOO	89	64	94	55	77	5	T	-.8	T	10.3	100	23.7	106	91	46	2	0	1	0
KS CONCORDIA	96	67	103	60	82	3	.1	-.6	.1	4.7	54	18.6	101	87	35	7	0	2	0
DODGE CITY	95	68	102	63	82	2	.1	-.5	.1	3.8	54	13.2	89	84	35	7	0	1	0
GOODLAND	90	61	95	54	75	0	.1	-.3	.1	6.8	117	15.8	133	90	32	4	0	2	0
TOPEKA	93	68	99	57	81	2	.5	-.4	.5	12.3	118	26.1	120	87	44	5	0	2	0
WICHITA	96	72	104	68	84	3	T	-.6	T	3.0	35	16.9	91	76	33	7	0	0	0
KY BOWLING GREEN	87	68	89	64	78	0	.4	-.4	.4	7.9	78	37.0	113	98	57	0	0	2	0
LEXINGTON	86	70	88	68	78	2	T	-.9	T	7.2	68	26.7	87	97	61	0	0	1	0
LOUISVILLE	88	70	90	67	79	2	1.9	1	1.7	10.8	121	29.8	104	83	58	2	0	3	1
LA ALEXANDRIA	87	71	91	69	79	-4	5.4	4.7	2.3	14.6	149	41.8	113	95	66	3	0	3	1
BATON ROUGE	89	71	91	68	80	-2	1.1	-.9	.9	9.5	77	25.7	70	93	56	3	0	6	1
LAKE CHARLES	88	74	90	70	81	-1	.6	-.6	.4	14.0	119	35.9	111	100	67	2	0	3	0
NEW ORLEANS	88	72	90	70	80	-2	2.1	-.8	.8	17.3	128	36.8	96	91	58	1	0	3	2

+100 = NORMAL & ACTUAL NEAR THE SAME

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

(continued from p. 4)

The USGS, in cooperation with State and local organizations, routinely gathers data on the quality and quantity of surface- and ground-water resources from more than 60,000 stations across the country.

The following is additional information on national weather conditions:

FIVE LARGE RIVERS--While the average flow of each of the "Big Five" rivers declined seasonally from the previous month, the individual streamflows of all were above the long-term average for July. The St. Lawrence River near Massena, New York--197 bgd, 12 percent above average; the Ohio River at Louisville, Kentucky--39 bgd, 24 percent greater than the long-term average; the Missouri River near Hermann,

Weather Data for the Week Ending AUGUST 11, 1984

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE June 3	PCT. NORMAL SINCE June 3	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
DAYTON	85	68	87	64	76	2	1.2	.5	.5	5.8	70	21.5	93	84	55	0	0	4	2
TOLEDO	85	68	88	65	77	6	.4	-.3	.2	6.4	81	20.1	99	94	61	0	0	2	0
YOUNGSTOWN	84	67	88	64	76	6	.1	-.7	.1	9.2	104	23.6	99	90	58	0	0	2	0
OK OKLAHOMA CITY	91	72	98	70	81	-1	.4	-.1	.2	4.4	58	14.0	68	77	43	4	0	2	0
TULSA	94	73	100	69	83	0	1.4	.7	1.0	3.6	39	28.3	115	88	46	6	0	2	1
OR ASTORIA	70	53	77	46	61	0	.1	-.2	.1	4.0	105	35.1	93	90	60	0	0	2	1
BURNS	89	48	98	43	69	0	0	-.2	0	1.5	109	6.3	158	—	—	3	0	0	0
MEDFORD	93	56	101	50	75	3	0	0	0	.9	90	7.1	67	77	22	5	0	0	0
PENDLETON	91	63	98	56	77	4	T	T	T	1.2	108	8.1	113	54	18	4	0	1	0
PORTLAND	84	60	95	54	72	4	T	T	T	4.1	185	19.7	97	80	36	3	0	0	0
SALEM	86	52	95	46	69	3	0	-.1	0	4.2	245	23.3	106	94	36	2	0	0	0
PA ALLENTOWN	84	70	90	67	77	4	2.3	1.3	.8	15.6	170	40.4	150	94	68	3	0	0	0
ERIE	83	69	91	66	76	7	.7	.8	0	7.3	88	21.8	88	68	60	1	0	5	3
HARRISBURG	87	71	91	67	79	4	.1	-.7	0	8.6	106	33.5	139	—	—	1	0	2	1
PHILADELPHIA	85	69	89	63	77	1	2.2	1.3	2.2	12.1	131	34.4	133	89	55	0	0	1	1
PITTSBURGH	84	66	88	64	75	3	1.4	.6	.9	7.5	89	22.3	92	94	60	0	0	4	1
SCRANTON	82	68	86	65	75	4	.4	-.4	.2	10.7	134	28.1	132	93	66	0	0	3	0
RI PROVIDENCE	83	68	87	67	75	3	.2	-.7	.2	9.7	134	37.3	139	93	66	0	0	1	0
SC CHARLESTON	94	75	95	73	84	4	T	T	-1.5	7.9	48	35.4	102	89	49	0	0	4	0
COLUMBIA	93	71	94	68	82	1	.4	-.9	.4	15.8	134	38.3	116	98	51	7	0	1	0
FLORENCE	91	72	93	69	82	1	.8	-.3	.8	13.2	109	35.5	120	100	60	6	0	1	1
GREENVILLE	88	69	89	67	79	1	1.2	.4	.9	18.8	187	48.0	145	91	56	0	0	3	1
SD ABERDEEN	86	63	90	53	74	2	.3	-.2	.2	8.5	133	15.7	120	96	46	1	1	2	1
HURON	88	64	94	56	76	2	.7	-.2	.7	14.9	237	22.9	169	93	45	3	0	0	1
RAPID CITY	92	60	98	54	76	3	T	-.4	T	6.6	113	12.3	97	66	22	5	0	0	0
SIOUX FALLS	88	64	96	56	76	2	.2	-.5	.2	10.3	139	22.3	138	90	44	3	0	0	0
TN CHATTANOOGA	88	68	91	67	78	-1	.4	-.3	.4	10.8	118	35.0	103	95	56	2	0	1	0
KNOXVILLE	85	66	86	65	76	-2	.5	-.2	.4	14.1	150	38.1	121	100	64	0	0	2	0
MEMPHIS	86	73	89	70	80	-2	2.9	2.0	2.0	9.1	101	35.7	104	95	67	0	0	4	2
NASHVILLE	86	69	90	67	78	-1	.3	-.5	.3	12.3	141	39.7	124	89	56	1	0	1	0
TX ABILENE	92	74	96	71	83	-2	T	-.5	T	4.3	79	6.8	48	71	31	6	0	0	0
AMARILLO	82	64	93	61	73	-5	1.0	.3	.4	8.8	121	11.8	90	92	55	3	0	5	0
AUSTIN	98	75	99	74	86	1	T	-.4	T	3.1	56	9.6	51	85	33	7	0	0	0
BEAUMONT	88	75	90	73	81	-2	2.1	.9	1.6	8.3	74	31.8	104	100	67	1	0	4	1
BROWNSVILLE	93	76	95	72	84	0	.6	-.2	.4	4.8	98	16.3	136	91	48	7	0	3	0
CORPUS CHRISTI	94	75	95	73	84	-1	.1	-.5	.1	1.3	21	9.9	65	85	47	7	0	3	0
DEL RIO	95	76	97	75	86	-1	0	-.3	0	1.4	35	5.6	57	74	29	7	0	0	0
EL PASO	86	70	94	67	78	-3	3.4	3.1	1.7	8.3	315	9.6	226	87	50	3	0	5	3
FORT WORTH	96	75	99	71	85	-1	.3	-.1	.3	3.5	70	16.7	87	80	35	6	0	1	0
GALVESTON	86	79	87	75	83	-1	.3	-.6	.2	4.7	55	15.2	69	82	69	0	0	2	0
HOUSTON	93	73	95	72	83	0	1.0	-.2	.6	7.4	88	21.8	82	85	46	7	0	3	1
LUBBOCK	85	68	95	64	77	-2	3.2	2.6	1.4	8.0	135	9.1	79	83	53	3	0	5	2
MIDLAND	88	68	97	67	78	-3	2.0	1.6	1.2	5.1	137	9.1	111	78	41	3	0	5	1
SAN ANGELO	93	73	97	71	83	-1	T	-.4	T	3.7	103	7.8	76	80	35	6	0	0	0
SAN ANTONIO	96	75	98	75	86	1	T	-.5	T	1.4	25	9.5	56	83	34	7	0	0	0
VICTORIA	95	76	96	73	86	1	1.5	.9	1.0	4.8	60	15.0	73	93	46	7	0	3	1
WACO	99	76	100	74	87	1	T	-.4	T	3.6	73	13.1	68	82	35	7	0	0	0
WICHITA FALLS	93	72	100	69	83	-3	1.9	1.4	1.2	4.1	76	8.6	52	86	44	5	0	5	1
UT BLANDING	85	57	90	55	71	-2	.1	-.3	.1	2.7	135	5.0	81	74	28	1	0	2	0
CEDAR CITY	91	59	96	54	75	2	1.6	1.3	1.5	4.4	217	8.7	137	62	22	5	0	2	1
SALT LAKE CITY	92	66	97	60	79	2	.1	-.2	0	3.7	185	12.5	123	64	23	6	0	2	0
VT BURLINGTON	85	67	88	64	76	7	1.3	.5	1.0	8.3	98	23.5	117	78	46	0	0	2	1
VA NORFOLK	89	74	91	72	81	3	T	-1.3	T	9.2	86	35.2	125	89	53	4	0	0	0
RICHMOND	90	71	94	68	81	3	.5	-.7	.2	7.9	74	35.0	129	95	58	4	0	4	0
ROANOKE	87	68	90	67	78	2	5.7	4.8	2.8	12.2	149	31.2	126	95	59	2	0	3	2
WA COLVILLE	88	56	95	49	72	4	T	-.2	T	6.2	241	17.1	169	75	31	3	0	1	0
QUILLAYUTE	69	52	80	47	61	1	.3	-.3	.2	3.7	59	64.9	115	98	64	0	0	3	0
SEATTLE-TACOMA	77	57	85	53	67	2	T	-.3	T	2.9	119	20.6	101	85	43	0	0	0	0
SPOKANE	89	60	97	51	74	5	T	-.1	T	2.7	139	10.6	108	69	22	4	0	1	0
YAKIMA	89	55	98	44	72	2	T	0	T	1.6	194	5.3	113	78	24	4	0	1	0
WV BECKLEY	79	64	83	62	72	2	.4	-.5	.2	12.6	130	28.4	101	100	71	0	0	4	0
CHARLESTON	87	70	91	68	78	4	1.5	.5	.7	9.7	93	24.4	86	94	58	2	0	5	1
HUNTINGTON	87	69	92	68	78	3	1.8	.9	1.5	7.4	78	22.6	83	89	56	1	0	4	1
PARKERSBURG	84	71	89	69	78	4	3.1	2.2	1.6	7.2	69	20.6	71	89	62	0	0	4	2
WI GREEN BAY	83	65	88	59	74	5	1.3	.6	.9	10.8	143	19.9	113	96	60	0	0	3	1
LA CROSSE	87	66	94	57	76	4	1.0	-.2	.4	11.9	128	21.2	107	96	51	3	0	3	0
MADISON	85	66	89	59	76	6	1.3	.4	.8	10.2	113	20.1	101	89	53	0	0	3	1
MILWAUKEE	86	71	92	66	78	8	1.1	.4	.8	8.7	106	21.8	110	74	53	2	0	4	1
WAUSAU	82	65	86	58	73	5	.4	-.5	.2	14.7	157	23.8	120	96	53	0	0	3	0
WY CASPER	91	53	95	50	72	2	.1	0	.1	3.8	151	10.6	129	71	16	5	0	1	0
CHEYENNE	79	53	82	48	66	-2	.4	0	.2	6.0	136	13.1	132	96	37	0	0	3	0
LANDER	88	59	91	54	73	3	.1	0	.1	3.6	159	10.3	108	58	22	2	0	3	0
SHERIDAN	92	55	98	51	73	3	.3	.1	.3	3.9	112	10.8	103	74	22	4	0	1	0
PR SAN JUAN	90	76	92	75	83	1	T	-.1	T	11.5	100	22.2	78	83	57	2	0	0	0

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

Missouri--98 bgd, 101 percent above average; the Mississippi River at Vicksburg, Mississippi--431 bgd, 58 percent above average; and the Columbia River at The Dalles, Oregon--192 bgd, 6 percent greater than the long-term average.

NEVADA--Streamflow was above average on the Virgin, Humbolt, and Walker Rivers. The flow of the Humbolt was in the above-

normal range for the 25th consecutive month. Rainstorms in the last 10 days of July caused numerous flash floods in the Mopa Valley and Las Vegas.

UTAH--The level of the Great Salt Lake declined more than 2 inches during July, after peaking early in the month at 4209.25 feet above sea level, 4.25 feet higher than on July 1, 1983.

(continued on p. 8)

Weather Data for the Week Ending AUGUST 11, 1984

STATES AND STATIONS	TEMPERATURE °F					PRECIPITATION								RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE June 3	PCT. NORMAL SINCE June 3	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE °F		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
SHREVEPORT	90	72	94	69	81	-2	.2	-.3	.1	6.6	83	26.4	92	96	57	5	0	3	0
ME CARIBOU	80	60	85	55	70	6	.4	-.6	.2	10.6	122	25.8	122	96	58	0	0	3	0
PORTLAND	80	63	91	59	72	2	T	-.6	T	7.7	111	34.8	137	89	61	1	0	0	0
MD BALTIMORE	87	70	89	66	78	4	.4	-.6	T	7.7	83	26.6	103	82	54	0	0	2	0
SALISBURY	87	70	89	68	79	3	T	-.3	T	9.7	96	34.1	124	100	63	0	0	0	1
MA BOSTON	83	70	92	67	77	4	.6	-.6	T	8.1	118	38.2	147	93	63	2	2	0	1
CHATHAM	76	65	79	61	70	2	0	-.9	0	7.5	106	36.2	133	100	63	1	0	0	1
MI ALPENA	81	60	90	50	70	4	1.4	-.7	.8	7.6	105	16.3	93	100	59	1	0	0	1
DETROIT	89	66	95	62	78	6	.8	0	.5	3.6	47	15.2	77	88	48	3	0	2	1
FLINT	86	67	92	60	77	7	1.5	-.7	.7	6.3	87	16.7	91	93	54	2	0	3	2
GRAND RAPIDS	87	68	92	62	78	7	.9	.2	.9	3.8	47	15.4	74	99	56	4	0	3	1
HOUGHTON LAKE	83	65	88	57	74	7	.4	-.2	.3	8.2	117	17.0	101	97	57	4	0	2	0
LANSING	88	66	94	59	77	7	2.8	2.1	2.5	5.8	80	16.8	91	98	53	4	0	2	1
MARQUETTE	76	59	85	49	68	4	2.3	1.6	.8	7.0	86	19.2	85	97	66	0	0	4	3
MUSKOGON	85	67	88	63	76	6	.6	-.1	.3	4.9	82	17.0	93	94	58	0	0	3	0
SAULT STE. MARIE	78	57	84	47	67	3	1.7	1.0	.8	7.9	107	16.2	87	100	74	0	0	3	2
MN ALEXANDRIA	84	64	89	59	74	4	.1	-.8	.1	9.5	113	17.2	106	94	48	0	0	1	0
DULUTH	78	60	92	56	69	4	.9	-.1	.7	8.0	85	14.1	75	94	59	1	0	3	1
INT'L FALLS	80	58	89	52	69	4	.1	-.5	.1	9.0	105	12.9	83	96	52	0	0	2	0
MINNEAPOLIS	84	66	92	61	75	3	2.4	1.5	2.2	14.4	162	24.5	139	84	51	1	1	2	1
ROCHESTER	83	64	92	58	73	3	1.4	.5	1.2	8.5	91	18.0	97	96	56	1	1	0	1
MS GREENWOOD	84	70	87	68	77	-4	.3	-.4	.3	7.2	80	30.8	87	100	79	0	0	2	0
JACKSON	89	70	92	69	80	-2	2.9	2.0	1.5	9.2	105	30.9	89	94	58	4	0	5	2
MERIDIAN	89	70	91	69	80	-2	2.3	1.5	1.2	11.2	110	33.4	93	95	61	2	0	6	2
MO CAPE GIRARDEAU	90	70	93	68	80	-1	.1	-.7	.1	3.6	42	20.4	71	100	59	3	3	0	0
COLUMBIA	94	68	100	63	81	4	0	-.6	0	12.2	147	30.8	132	93	39	7	0	0	0
KANSAS CITY	93	69	100	58	81	3	.1	-.6	.1	8.2	80	23.9	105	88	39	5	0	1	0
SAINT LOUIS	95	74	100	70	84	6	T	-.6	T	3.8	46	24.9	110	86	41	7	0	0	0
SPRINGFIELD	95	67	100	59	81	3	T	-.6	T	5.7	62	22.4	90	88	39	6	0	0	0
MT BILLINGS	92	61	98	57	76	4	.1	-.1	.1	2.5	77	7.0	68	70	21	4	0	1	0
GLASGOW	93	63	100	54	78	7	T	-.3	T	2.2	46	4.4	51	62	18	4	0	1	0
GREAT FALLS	91	57	100	53	74	7	T	-.2	T	2.3	55	8.0	73	61	16	4	0	1	0
HAVRE	91	57	103	50	74	4	T	-.2	T	1.0	27	3.9	49	60	18	3	0	1	0
HELENA	89	55	99	52	72	4	T	-.3	T	2.4	69	5.6	71	57	19	3	0	0	0
KALISPELL	84	50	92	41	67	2	.1	-.3	.1	2.4	66	8.2	82	81	26	2	0	1	0
MILES CITY	96	64	104	53	80	6	.1	-.2	.1	4.0	86	6.3	62	59	15	4	0	1	0
MISSOULA	87	52	96	44	70	3	.2	-.1	.2	2.4	81	9.0	104	89	25	3	0	1	0
NE GRAND ISLAND	93	64	97	58	78	2	T	-.6	T	5.9	82	24.0	144	82	36	5	0	0	0
LINCOLN	94	76	97	59	80	3	T	-.8	T	7.7	94	26.8	144	85	38	6	0	1	0
NORFOLK	91	64	98	57	78	3	T	-.6	T	8.0	94	24.7	142	88	39	3	0	0	0
NORTH PLATTE	93	60	98	55	76	2	.2	-.2	.1	5.7	78	16.0	108	85	29	6	0	2	0
OMAHA	91	68	95	61	80	5	T	-.9	T	9.8	107	24.4	123	85	46	5	0	0	0
SCOTTSBLUFF	93	59	97	55	76	2	T	-.2	T	3.0	57	10.4	93	78	21	6	0	1	0
VALENTINE	93	60	97	52	76	2	.4	-.2	.4	9.2	147	16.7	132	84	28	6	0	1	0
NV ELY	88	49	92	45	69	2	T	-.1	T	3.2	192	6.3	105	77	21	4	0	1	0
LAS VEGAS	102	77	107	73	90	0	.1	-.1	.1	2.8	353	2.8	110	42	16	7	0	1	0
RENO	92	51	98	47	72	4	.1	-.1	.1	.8	107	1.9	38	59	13	5	0	0	0
WINNEMUCCA	94	55	101	47	75	4	T	-.1	T	3.2	265	8.3	163	49	13	5	0	0	0
NH CONCORD	84	63	88	60	73	5	T	-.7	T	7.4	106	30.5	145	96	60	0	0	2	1
NJ ATLANTIC CITY	88	72	93	70	80	6	.8	-.3	.5	7.9	91	31.4	121	83	56	3	0	2	1
NM ALBUQUERQUE	84	62	91	60	73	-4	1.3	1.0	.9	3.4	140	5.0	108	87	38	1	0	4	1
CLOVIS	78	65	90	62	72	-6	1.8	1.2	1.3	12.0	188	16.8	152	79	58	1	0	5	1
ROSWELL	80	66	92	63	73	-8	4.5	4.0	2.1	10.0	324	12.5	248	88	58	2	0	6	3
NY ALBANY	85	67	91	65	76	5	1.0	.2	.5	6.5	88	26.1	121	98	64	1	0	3	0
BINGHAMTON	83	67	85	63	75	7	1.1	-.4	1.0	9.5	116	27.7	124	94	61	0	0	2	1
BUFFALO	83	68	88	66	76	6	1.1	-.1	.6	9.5	133	23.5	110	95	58	0	0	3	1
NEW YORK	82	71	88	69	77	0	.1	-.9	.1	13.0	155	38.6	148	91	68	0	0	1	0
ROCHESTER	85	70	88	68	77	7	1.7	1.0	1.0	6.3	100	21.5	114	91	57	0	0	4	1
SYRACUSE	83	65	87	62	74	3	1.8	-.9	.9	8.0	91	22.5	95	100	75	0	0	5	1
NC ASHEVILLE	84	63	85	62	74	1	.7	-.4	.3	11.5	111	35.7	116	100	67	0	0	5	0
CHARLOTTE	90	70	91	69	80	1	1.7	.8	1.2	10.9	124	36.1	127	95	51	6	0	2	2
GREENSBORO	88	69	91	66	79	2	2.7	1.7	1.9	18.5	189	41.7	154	93	55	2	0	4	2
HATTERAS	89	76	92	69	83	4	0	-.4	0	8.2	70	29.4	92	93	59	4	0	0	0
NEW BERN	92	77	98	74	85	6	.9	-.5	.7	13.5	95	40.0	120	84	59	5	0	3	1
RALEIGH	89	70	91	69	80	2	.1	-.9	.1	13.0	134	38.8	143	99	57	5	0	3	1
WILMINGTON	88	74	91	73	81	1	2.6	1.1	2.1	12.7	82	34.2	100	98	65	5	0	3	1
ND BISMARCK	88	60	94	49	74	3	T	-.4	T	5.0	88	11.3	101	82	31	4	0	0	0
FARGO	88	63	95	56	76	5	0	-.6	0	6.0	81	11.2	83	91	36	3	0	0	0
GRAND FORKS	84	61	96	54	73	4	2.4	1.7	2.3	10.9	162	15.4	127	91	51	1	0	2	1
WILLISTON	91	61	99	51	76	6	.1	-.2	.1	3.0	59	6.7	69	80	24	5	0	1	0
OH AKRON-CANTON	83	65	87	61	74	3	.8	-.1	.5	6.1	71	21.6	92	100	67	0	0	3	1
CINCINNATI	86	70	89	68	78	3	.4	-.4	.3	6.6	69	23.0	86	90	58	0	0	2	0
CLEVELAND	84	68	88	65	76	5	T	-.7	T	7.6	94	24.8	110	83	54	0	0	1	0
COLUMBUS	86	68	89	66	77	4	.2	-.7	.1	5.6	60	20.4	82	90	54	0	0	3	0

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

(continued from p. 7)

TEXAS--Streamflow runoff was well-below average across most of the State. Thirty-two of 37 reservoirs registered a decline in contents from the previous month. Ground-water levels were below average in key observation wells at Austin and Houston, and reached new lows for the month of July at El Paso and San Antonio.

COOLING DEGREE DAY DATA WEEKLY SUMMARY
CLIMATE ANALYSIS CENTER-NMC-NWS-NOAA
ASSESSMENT AND INFORMATION SERVICES CENTER-NESDIS-NOAA

LAST DATE OF DATA COLLECTION PERIOD IS 8-11-1984
ACCUMULATIONS ARE FROM JANUARY 1
** = NORMAL LESS THAN 100 OR RATIO INCALCULABLE

STATE CITY	CALL	WEEK	WEEK	WEEK	CUM	CUM	CUM	CUM	CUM	STATE CITY	CALL	WEEK	WEEK	WEEK	CUM	CUM	CUM	CUM	CUM
		TOTAL	DEV	DEV	TOTAL	DEV	DEV	DEV	DEV			TOTAL	DEV	DEV	TOTAL	DEV	DEV	DEV	DEV
			FROM	FROM	FROM	FROM	FROM	FROM	FROM				FROM	FROM	FROM	FROM	FROM	FROM	FROM
			NORM	L YR	NORM	L YR	NORM	NORM	NORM				NORM	L YR	NORM	L YR	NORM	NORM	NORM
									PRCT										PRCT
AL BIRMINGHAM	BHM	93	-12	-27	1117	-156	-14	-12	-1	MT MILES CITY	MLS	107	40	-37	678	105	-27	18	4
AL MOBILE	MOB	104	-15	-11	1385	-325	78	-19	6	MT MISSOULA	MSS	36	13	-30	199	37	47	23	31
AL MONTGOMERY	MGM	101	-17	-20	1359	-154	116	-10	9	NE GRAND ISLAND	GRI	94	14	-20	836	62	-28	8	-3
AK ANCHORAGE	ANC	0	0	0	5	5	5	**	**	NE LINCOLN	LNK	108	25	-13	855	12	-124	1	-13
AK BARROW	BRW	0	0	0	0	0	0	**	**	NE NORFOLK	ONK	92	21	-6	728	18	-60	5	-8
AK FAIRBANKS	FAI	0	-4	0	45	-9	-69	**	**	NE NORTH PLATTE	NBF	80	16	-5	567	-23	-20	-4	-3
AK JUNEAU	JNU	0	0	0	0	0	0	**	**	NE OMAHA	ON4	103	20	-9	755	-127	-107	-14	-12
AK KODIAK	KDK	0	0	0	5	5	1	**	**	NE VALENTINE	VIN	80	16	-15	585	7	-23	1	-4
AK NOME	OME	0	0	0	2	2	1	**	**	NV ELY	ELY	26	5	-17	154	13	2	9	1
AZ FLAGSTAFF	FLG	3	-10	-7	75	-36	32	-32	74	NV LAS VEGAS	LAS	175	4	19	2127	113	314	6	17
AZ PHOENIX	PHX	187	6	-8	2887	491	250	20	9	NV RENO	RNO	50	20	-25	393	128	137	48	54
AZ TUCSON	TUS	126	-12	-8	1929	117	180	6	10	NV WINNEMUCCA	WMC	69	27	-8	341	-54	71	-14	26
AZ WINSLOW	INW	84	-2	-11	908	53	108	6	13	NH CONCORD	CON	60	29	13	355	74	0	26	0
AZ YUMA	YUM	207	7	14	2872	234	109	9	4	NJ ATLANTIC CITY	ACY	108	45	4	803	226	-36	39	-4
AR FORT SMITH	FSM	108	-11	-23	1188	-146	90	-11	8	NM ALBUQUERQUE	ABQ	60	-26	-52	1010	89	20	10	2
AR LITTLE ROCK	LRI	103	-16	-32	1263	-132	50	-9	4	NM ROSWELL	ROW	56	-51	-54	1167	-170	9	-13	1
CA BAKERSFIELD	BFL	140	11	-17	1373	-147	131	-10	11	NY ALBANY	ALB	78	39	29	345	-38	-109	-10	-24
CA EUREKA	EKA	0	0	0	0	0	0	**	**	NY BINGHAMTON	BGM	72	44	23	350	102	-94	41	-21
CA FRESNO	FAT	149	45	-3	1642	480	415	41	34	NY BUFFALO	BUF	77	42	25	435	81	-107	23	-20
CA LOS ANGELES	LAX	44	7	-42	422	91	87	27	26	NY NEW YORK	LGA	83	4	-16	721	-6	-97	-1	-12
CA RED BLUFF	RBL	34	22	3	1419	165	331	13	30	NY ROCHESTER	RUC	88	46	38	404	12	-107	3	-21
CA SAN DIEGO	SAN	70	21	-32	837	441	272	111	48	NY SYRACUSE	SYR	63	21	20	305	-70	-126	-19	-29
CA SAN FRANCISCO	SFO	177	13	-8	135	104	40	**	**	NC ASHEVILLE	AVL	61	5	-25	457	-126	-169	-22	-27
CA STOCKTON	SCK	110	24	-5	1124	201	266	22	31	NC CAPE HATTERAS	HAT	125	28	5	1069	102	67	11	7
CO DENVER	DEN	48	-7	-29	530	25	68	5	15	NC CHARLOTTE	CLT	106	10	-16	982	-91	-74	-8	-7
CO GRAND JUNCTION	GJT	88	0	-45	897	14	58	2	7	NC GREENSBORO	GSO	97	13	-14	828	-107	-24	-11	-3
CO PUEBLO	PUB	69	-7	-26	801	46	122	6	18	NC RALEIGH DURHAM	RDU	106	15	-9	924	-48	-39	-5	-4
CT BRIDGEPORT	BDR	84	21	10	601	86	60	17	11	NC WILMINGTON	ILM	115	9	-13	1196	-73	-2	-6	0
CT HARTFORD	BDR	77	23	13	526	20	-97	4	-16	ND BISMARCK	BIS	65	20	-15	350	-6	-85	-2	-20
DE WILMINGTON	ILG	103	26	-5	811	103	-27	15	-3	ND FARGO	FAR	77	35	9	408	34	-108	9	-21
DC WASHINGTON	DCA	113	18	-17	1005	17	-117	2	-10	ND WILLISTON	ISM	80	38	-33	447	113	-129	34	-22
FL APALACHICOLA	AGC	122	3	5	1325	-311	-62	-19	-4	OH AKRON-CANTON	CAK	66	23	11	451	8	-126	2	-22
FL DAYTONA BEACH	DBY	135	23	21	1424	-331	17	-19	1	OH CLEVELAND	CLE	79	36	21	426	-10	-197	-2	-32
FL FORT MEYER	FMY	137	11	17	2189	-49	347	-2	19	OH COLUMBUS	CMH	84	31	9	620	7	-58	1	-9
FL JACKSONVILLE	JAX	125	13	2	1462	-122	83	-8	6	OH CINCINNATI	CVI	92	22	-5	706	-29	-134	-4	-16
FL KEY WEST	KEY	131	-6	-4	2674	-202	288	-7	12	OH DAYTON	DAY	80	11	5	542	-137	-124	-20	-19
FL MIAMI	MIA	137	11	4	2277	-189	-36	-8	-2	OH TOLEDO	TOL	83	41	25	508	54	-47	12	-8
FL ORLANDO	MCO	132	6	6	1734	-364	-93	-17	-5	OH YOUNGSTOWN	YNG	78	43	14	415	65	-121	19	-23
FL TALLAHASSEE	TTH	123	11	2	1465	-135	8	-8	1	OK OKLAHOMA CITY	OKC	116	-4	-16	1287	-12	175	-1	16
FL TAMPA	TPA	134	14	19	1983	-72	151	-4	8	OK TULSA	TUL	129	3	-21	1341	-49	-32	-4	-2
FL WEST PALM BEACH	PBI	121	-5	-12	2040	-198	-131	-9	-6	OR ASTORIA	AST	0	-4	-1	3	-15	1	**	**
GA ATLANTA	ATL	98	0	-22	1073	-60	-19	-5	-2	OR BURNS	BUR	27	-4	-6	172	-88	82	-34	91
GA AUGUSTA	AGS	124	15	-10	1303	-8	25	-1	2	OR MEDFORD	MFR	69	19	-9	459	23	65	5	16
GA MACON	MAC	134	18	3	1447	-46	-70	-3	-5	OR PENDELTON	PDT	85	24	9	451	-61	85	-12	23
GA SAVANNAH	SAV	142	30	11	1501	-6	-6	0	0	OR PORTLAND	PDX	49	21	9	253	36	40	17	19
HI HILO-HAWAII	HLO	74	-3	2	1993	183	162	10	9	OR SALEM	SLE	33	11	3	125	-29	2	-19	2
HI HONOLULU-OAHU	HNL	120	8	-1	2865	325	473	13	20	PA ALLENTOWN	ABE	88	31	-6	646	100	-64	18	-9
HI KAHULUI-MAUI	HKA	106	8	6	2768	566	565	26	26	PA ERIE	ERI	82	48	29	448	169	-31	61	-6
HI LIHUE-KAUAI	LHI	114	16	17	2730	593	502	28	23	PA HARRISBURG	HAR	106	33	17	749	31	95	4	15
ID BOISE	BOI	94	33	-21	534	2	57	0	12	PA PHILADELPHIA	PHL	88	10	-25	711	-44	-157	-6	-18
ID LEWISTON	LWS	97	34	-18	562	46	64	9	13	PA PITTSBURGH	PIT	71	25	16	406	-53	-82	-12	-17
ID POCATELLO	PIH	52	12	-34	298	-33	19	-10	7	PA SCRANTON	AVP	75	33	23	514	93	51	22	11
IL CHICAGO	ORD	85	29	-7	521	-14	-194	-3	-27	RI PROVIDENCE	PVD	74	23	-14	498	79	-194	19	-28
IL MOLINE	MLI	112	48	15	723	40	-157	6	-18	SC CHARLESTON	CHS	138	30	0	1412	48	35	4	3
IL PEORIA	PIA	100	36	-8	722	15	-186	2	-20	SC COLUMBIA	CAE	121	9	-8	1278	-113	-6	-8	0
IL ROCKFORD	RFD	94	39	11	538	-5	-226	-1	-30	SC GREENVILLE	GSP	97	6	-16	1009	-37	43	-4	4
IL SPRINGFIELD	SPI	112	39	10	821	-31	-120	-4	-13	SD ABERDEEN	ABR	68	17	-22	406	-53	-176	-12	-30
IN EVANSVILLE	EVV	108	23	-20	1003	6	-58	1	-5	SD HURON	HON	78	17	-20	541	-25	-119	-4	-18
IN FORT WAYNE	FWA	92	40	0	640	69	-189	12	-23	SD RAPID CITY	HAP	81	25	-22	427	-45	-97	-10	-19
IN INDIANAPOLIS	IND	92	28	-15	714	-6	-148	-1	-17	SD SIOUX FALLS	FSF	79	18	-8	539	-44	-121	-8	-18
IN SOUTH BEND	SNB	95	46	8	613	93	-208	18	-25	TN CHATTANOOGA	CHA	95	-3	-30	962	-119	-59	-11	-6
IA DES MOINES	DSM	111	37	-11	802	38	-192	5	-19	TN KNOXVILLE	TYS	76	-13	-39	766	-234	-145	-23	-16
IA DUBUQUE	DBQ	83	38	1	459	-1	-177	0	-28	TN MEMPHIS	MEM	103	-13	-42	1361	-63	14	-4	1
IA SIOUX CITY	SCJ	85	16	-29	621	-86	-103	-12	-14	TN NASHVILLE	BNA	92	-6	-47	981	-156	-128	-14	-12
KS CONCORDIA	CNC	118	21	-5	1016	53	63	6	7	TX ABILENE	ABI	129	-4	0	1756	90	321	5	22
KS DODGE CITY	DKC	118	13	-23	1189	136	80	13	7	TX AMARILLO	AMA	56	-35	-39	846	-170	-18	-17	-2
KS GOOGLAND	GLD	71	-2	-51	549	-144	-233	-21</											

National Agricultural Summary

August 6 to 12

HIGHLIGHTS: Heavy rain benefited crops from the Texas High Plains across the southern Corn Belt into the Northeast and across most of the Delta States. However, dry conditions further stressed crops in central Texas and Montana. Cooler temperatures slowed the development of crops from the Southwest through the Delta States. Soil moisture supplies were rated short to mostly adequate across the Corn Belt, mostly short in the southern and northern Plains, and adequate to surplus in the Delta States and from the Southeast through the Northeast. Farmers in the Delta States and Southeast had 3-5 days available for fieldwork, while 5-7 days were suitable elsewhere across the Nation.

Winter wheat combining progressed on schedule, reaching 91% completion. Harvesting was centered in the northern Plains and Northwest. Spring wheat combining was 25% finished, trailing the 28% average. Corn was rated mostly good with 93% of the acreage silked, and 34% in or past the dough stage. Harvesting increased in the South. Soybeans bloomed on 84% of the acreage, and 52% had set pods. Stands were rated fair to mostly good. Cotton was mostly good with bolls set on 84% of the acreage, slightly ahead of normal. Sorghum was in fair to good condition. Heading was 55% complete, slightly behind the average. Harvesting was over one-half finished in Texas. Rice was headed on 55% of the acreage, and 11% was harvested. Harvesting of summer vegetables and seeding of fall vegetables was slowed by widespread showers. Early apple varieties and mid-season peaches were picked in the northern producing areas. Pastures and ranges were in fair to mostly good condition. Rains helped stimulate grass growth in most regions.

SMALL GRAINS: Winter wheat harvesting in the 15 major producing States was 91% complete, equaling the average. Combining was virtually finished except in the northern Plains and Northwest. Progress lagged the average by 18 points in Oregon, 15 points in Washington, and 6 points in Idaho. Corn Belt producers plowed harvested fields in preparation for fall seeding of winter wheat. Plowing was 15% finished in Indiana, equaling last year and the average.

Spring wheat combining advanced to 25% completion in the 5 major producing States. This compares with 41% last year and the 28% average. Montana and South Dakota producers harvested 20% of their acreage during the week, while North Dakota and Minnesota farmers combined 17% and 15%, respectively. All States were behind schedule, except Montana which was 15 points ahead of the average.

CORN: Corn was rated mostly good across much of the Nation. Showers benefited stands across the eastern Corn Belt, while soil moisture was depleted in much of the western Corn Belt. Ninety-three percent of the corn was silked in the 17 major producing States, 1 point slower than normal. Thirty-four percent reached the dough stage, compared with the normal of 42%. In the eastern Corn Belt, 42% was in the dough stage, 8 points behind average. In the western Corn Belt, only 23% was in the dough stage, also 8 points behind schedule. Harvesting gained momentum across the South, reaching 17% completion in Georgia.

SOYBEANS: The Nation's soybeans were rated fair to mostly good. Rains benefited stands across much of the eastern half of the Nation, but additional precipitation is needed in the central Plains and portions of the Corn Belt. In the 18 major soybean producing States, 84% of the crop was blooming and

52% was setting pods, compared with 81% blooming and 50% setting pods a year earlier. Pod setting was slower than the average by 15 points in Nebraska, 10 points in Ohio, and 9 points in Mississippi and South Carolina.

SORGHUM: Heavy rains relieved crop stress from the Texas High Plains through eastern Oklahoma. Conditions varied widely, but most of the Nation's crop was in fair to good condition. In the 7 major producing States, 55% of the acreage was headed, equal to last year but 7 points behind the average. Harvesting reached 52% completion in Texas, 1 point ahead of schedule.

COTTON: Cotton continued in mostly good condition. Dryland acreage in Texas responded favorably to recent showers, but needs continued precipitation for good growth. In the 14 major producing States, cotton was setting bolls on 84% of the acreage, 8 points ahead of last year, but only 1 point ahead of the average. Cooler temperatures slowed growth from New Mexico into the Delta States. Intermittent showers slowed harvesting in the Rio Grande Valley of Texas, but activities were virtually complete in the Coastal Bend area. Six percent of the Texas crop was harvested, double the normal pace.

OTHER CROPS: Peanuts were in mostly good condition. In the Southeast, fields began drying but white mold and corn rootworm were still causing concern in some areas. Showers revived the dryland Texas crop, but some areas still need moisture.

Tobacco was in mostly good condition with topping and harvesting activities continuing. Shade tobacco was being cut in New England. Harvesting lagged behind the normal in all areas because of the continuous shower activity.

Rice was rated good. In the 5 major producing States, 55% of the acreage was headed, compared with 50% last year and the 61% average. Harvesting reached 42% in Texas and 28% in Louisiana. This compares with the 66% and 25% averages, respectively. Heavy showers delayed progress in both States.

VEGETABLES: Widespread showers slowed harvesting of summer vegetables in the North and land preparation and planting of fall vegetables in the South. A wide variety of vegetables were harvested in California. Broccoli, cauliflower, and lettuce volumes were lighter. Melon and tomato harvesting was active in the Sacramento and San Joaquin Valleys. In Florida, land preparation and the laying of plastic film was active. Seeding and transplanting of celery, eggplant, peppers, sweet corn, and tomatoes increased.

FRUITS AND NUTS: Producers picked early apple and pears as far north as New York. Midseason peach picking gained momentum in the Northeast. Georgia's peach harvest was 95% complete. South Carolina producers had picked 87 percent of the crop. Florida's citrus groves needed some irrigation, but the new fruit crop was making excellent progress. California's wineries began the season's grape crush. Cooler weather slowed the maturity of later peach varieties, moving picking dates closer to normal. Growers continued to harvest a wide variety of fruit and nut crops.

PASTURES AND LIVESTOCK: Pastures and ranges continued to deteriorate in portions of the Plains where only limited precipitation fell, but elsewhere conditions were fair to mostly good.
(continued on p. 30)

CROP PROGRESS
FOR WEEK ENDING AUG 12

	WINTER WHEAT % HARVESTED		
	1984	1983	AVG.
CALIF	99	99	100
COLO	91	93	95
IDAHO	20	19	26
ILL	100	100	100
IND	100	100	100
KANS	100	100	100
MO	100	100	100
MONT	70	55	40
NEBR	99	100	100
OHIO	100	100	100
OKLA	100	100	100
OREG	58	83	76
S DAK	97	98	97
TEX	100	100	100
WASH	48	65	63
15 STATES	91	92	91

THESE 15 STATES PRODUCED 84% OF THE 1983 WINTER WHEAT CROP.

	SOYBEANS % BLOOMING		
	1984	1983	AVG.
ALA	68	71	76
ARK	48	44	51
GA	78	75	80
ILL	94	94	92
IND	98	95	90
IOWA	95	96	96
KANS	80	70	60
KY	66	55	65
LA	85	62	75
MICH	90	95	91
MINN	96	96	97
MISS	80	67	80
MO	77	78	71
NEBR	90	98	93
N C	62	56	56
OHIO	95	90	90
S C	53	56	69
TENN	77	72	74
18 STATES	84	81	82

THESE 18 STATES PRODUCED 93% OF THE 1983 SOYBEAN CROP.

	SOYBEANS % SETTING PODS		
	1984	1983	AVG.
ALA	39	35	48
ARK	28	17	27
GA	43	45	47
ILL	66	68	68
IND	55	50	50
IOWA	76	80	78
KANS	50	35	40
KY	25	11	23
LA	61	40	51
MICH	45	55	51
MINN	68	64	66
MISS	32	22	41
MO	47	47	43
NEBR	55	75	70
N C	25	23	26
OHIO	55	50	65
S C	20	20	29
TENN	25	16	32
18 STATES	52	50	54

THESE 18 STATES PRODUCED 93% OF THE 1983 SOYBEAN CROP.

	SPRING WHEAT % HARVESTED		
	1984	1983	AVG.
IDAHO	9	7	14
MINN	25	49	32
MONT	25	20	10
N D	20	37	22
S DAK	48	82	77
5 STATES	25	41	28

THESE 5 STATES PRODUCED 94% OF THE 1983 SPRING WHEAT CROP.

	SORGHUM % HEADED		
	1984	1983	AVG.
COLO	25	30	42
KANS	35	30	40
MO	79	68	65
NEBR	50	65	70
OKLA	60	50	55
S DAK	46	45	57
TEX	75	78	84
7 STATES	55	55	62

THESE 7 STATES PRODUCED 85% OF THE 1983 SORGHUM CROP.

	RICE % HEADED		
	1984	1983	AVG.
ARK	29	37	49
CALIF	45	20	35
LA	87	69	80
MISS	60	41	55
TEX	100	100	100
5 STATES	55	50	61

THESE 5 STATES PRODUCED 98% OF THE 1983 RICE CROP.

	RICE % HARVESTED		
	1984	1983	AVG.
ARK	0	0	0
CALIF	0	0	0
LA	28	8	25
MISS	0	0	0
TEX	42	30	66
5 STATES	11	6	15

THESE 5 STATES PRODUCED 98% OF THE 1983 RICE CROP.

	COTTON % SETTING BOLLS		
	1984	1983	AVG.
ALA	96	92	87
ARIZ	98	100	100
ARK	98	99	98
CALIF	90	75	83
GA	93	98	99
LA	99	79	94
MISS	90	80	91
MO	100	76	87
N MEX	98	76	90
N C	87	81	87
OKLA	50	45	50
S C	94	100	100
TENN	85	82	91
TEX	78	72	78
14 STATES	84	76	83

THESE 14 STATES PRODUCED 99% OF THE 1983 COTTON CROP.

	CORN % SILKING		
	1984	1983	AVG.
COLO	88	81	81
GA	100	100	100
ILL	100	100	100
IND	98	96	93
IOWA	94	96	97
KANS	99	90	90
KY	93	82	90
MICH	90	95	92
MINN	91	93	94
MO	94	92	89
NEBR	94	95	97
N C	100	98	98
OHIO	90	95	95
PA	62	75	79
S DAK	75	84	87
VA	89	90	91
WIS	86	84	84
17 STATES	93	93	94

THESE 17 STATES PRODUCED 90% OF THE 1983 CORN CROP.

	CORN % DOUGH		
	1984	1983	AVG.
COLO	34	16	17
GA	98	99	99
ILL	60	58	66
IND	45	55	55
IOWA	25	20	31
KANS	55	25	50
KY	30	18	40
MICH	20	25	21
MINN	11	18	13
MO	51	53	60
NEBR	20	20	40
N C	81	83	87
OHIO	25	35	40
PA	19	15	26
S DAK	17	15	19
VA	53	64	67
WIS	20	27	29
17 STATES	34	35	42

THESE 17 STATES PRODUCED 90% OF THE 1983 CORN CROP.

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 SRS State Statistical Offices in cooperation with the National Weather Service.

ALABAMA: Temperatures averaged 1 to 30° below normal. Rainfall 0.03 to 2.22 in.

Soil moisture adequate to surplus over State. Fieldwork: 3.7 days. Corn dented 84%, 82% 1983. Corn mature 54%, 39% 1983, 62% average. Soybeans blooming 68%, 71% 1983, 76% average. Soybeans setting pods 39%, 35% 1983, 48% average. Cotton setting bolls 96%, 92% 1983, 87% average. Activities: Corn harvest, spraying for insects and diseases in some row crops, and routine care of livestock and poultry. Conditions: soybeans, cotton, sorghum, peanuts, pasture, and livestock mostly good; corn fair to mostly good.

ALASKA: Weather generally cloudy early week, rain fell midweek as storm system from west. Late week, cleared, mostly fair skies. Cloudy skies, intermittent precipitation and cooler temperatures prevailed over Railbelt.

Only 2 to 5 days for fieldwork. Second crop hay making began, some areas Tanana and Matanuska Valleys. Small grains, good progress, up to 75% turning color. Grain harvest to begin 21st, earliest fields. Light to moderate wind and rain damage. Clearwater, Salcha areas of Tanana Valley, light frost damaged tender crops, potatoes, 12th. Vegetable harvest continues, potato digging scheduled next week, early varieties. Soil moisture supplies adequate.

ARIZONA: Minimum of Monsoon activity first half, marked increase in showers, thunderstorms remainder of week, with localized damaging winds, flooding. Rainfall confined mostly to eastern two-thirds, with amounts 0.25 to 1.50 in., except over 3.00 in. at Bisbee. Average temperatures varied from 4° below normal at Douglas to 30° above at Prescott.

Cotton 98% setting bolls, 100% both last year and average. Recent rains caused excessive plant growth some fields, made weed control more difficult. Growers closely monitoring insect population, using control measures as needed. Cotton above average west, some central areas; average other areas. Alfalfa hay harvest limited scale. Recent rains slowed or delayed harvest. Some growers harvested green chop rather than hay. Lemon picking very limited scale, some packing to start 13th. Citrus fruit sizing, maturing normally, groves good condition. Few watermelons, some chili peppers to be harvested by the 18th. Apple picking expected to start 20th.

ARKANSAS: Thundershowers throughout the State, especially southern half. Temperatures up to 4° below normal. High 98°, low 60°. Most rain 7.01 in., least trace. Soil moisture adequate, except surplus southern third and short northwest.

Crop progress moderate. Days suitable for fieldwork: 4.9. Rice good condition; heading 29%, 37% 1983, 49% average; none harvested, same as 1983 and average. Cotton good condition; bolls opening none, just starting 1983 and average. Soybeans good to fair condition; blooming 48%, 44% 1983, 51% average; setting pods 28%, 17% 1983, 27% average. Corn and sorghum good condition. Pasture close to normal. Cattle gaining some weight.

CALIFORNIA: Dry statewide and warmer than normal. Only one reporting station cooler than normal. Statewide departure from normal

averages at 30° warmer. Desert region also warmer than normal after three weeks below normal. All divisions with maximum temperatures with 1000+ except south coast. Desert area topped at 111° almost matched by Sacramento Valley's 109°.

Cotton setting bolls 90%, last year 75%, average 83%. Development very good. Heavy sets reported. Worm and mite treatment active. Rice 45% headed, 20% last year, 35% average. Watergrass and armyworm treatment continues. Winter wheat harvest 99% complete, 99% last year, 100% average. Sugarbeet harvest beginning. Safflower harvest active most areas. Corn silage cutting continues. Early dry bean harvest started. Alfalfa cutting continues active. Apples tested for maturity. Avocado harvest slowed due poor market. Crop holding fairly well. Dates Coachella Valley sustained light rain damage, but maturing rapidly. Table grape harvest continues. Wineries begun season's grape crush. Nectarine harvest continues. Cling peach crop continued very clean. Cooler weather changed timing later varieties, end of season picking dates more normal. Harvest of Freestone peaches continues. Over 60% of Bartlett pear crop harvested. Plum harvest slowing. Harvesting pomegranates begun. Growers preparing for prune harvest. Valencia orange harvest continues, very light volume; fruit quality deteriorating. Almond harvest continues with early varieties. Ground preparation for walnut harvest. Broccoli supplies light to moderate central coast. Cantaloupe harvest active San Joaquin Valley. Planting fall desert cantaloups. Cauliflower light supply central coast. Honeydew, mixed melon harvests active Sacramento, San Joaquin Valleys. Lettuce supplies fairly light central coast. Summer potato harvest active, fall crop normal growth. Sweetpotato digging for orders. Market tomato harvest active coastal, San Joaquin Valley districts. Processing tomato harvest full swing Sacramento Valley, active San Joaquin Valley. High elevation range, pasture feed conditions good. Dry browse foothill ranges providing limited feed, supplements supplied. Fire danger high.

COLORADO: Tropical moisture continued to fuel afternoon showers and thunderstorms across the southern half of the State. Precipitation amounts were light. Temperatures were seasonal.

Winter wheat in good condition as 91% of the crop harvested; 1983 93%, average 95%. Corn progressing well with 88% silked; 1983 and average, 81%, 34% in the dough stage; 1983 16%, average 17%. Sorghum has 24% headed; 1983, 30% average, 42%. Turning color at 4%; 1983 1%, average 2%. Alfalfa in good condition; 2nd cutting 65% complete, 1983 61%, average 70%. Third cutting just started with 6%, 1983 9%, average 13%. Barley has 57% ripe, 1983 50%, average 60%; 49% has been harvested, 1983 40%, average 48%. Spring wheat harvest 12% complete; 1983 7%, average 22%. Summer potato harvest at 14%, 1983 5%, average 15%. Dry bean flowering at 80%, 1983 78%, average 79%.

FLORIDA: A little drier than normal with a high pressure that settled over the State. Most Rainfall amounts less than 1.00 in. except some central interior, west coast and southeast coast locations received 1.00 to 2.00 in. with few clouds. Daytime temperatures ran above normal.

Some record high temperatures set on the 11th several east coast localities.

Soil moisture adequate statewide. Afternoon showers generally light, allowing more fieldwork. Corn harvest increased as more corn matures. First crop sorghum being harvested, second crop being planted. Tobacco harvest near completion. Soybeans, cotton and peanuts making good progress. Haymaking active with favorable weather. Sugarcane making good progress. Pasture conditions remained mostly good to excellent with a few panhandle, northern localities fair to good. Cattle mostly good condition statewide. Weather hot and dry in citrus groves. Some irrigation on high Sand Hills. Abundant new foliage. New crop fruit making excellent progress. Fresh fruit packers testing early fruit. Caretakers very active pruning and burning dead wood. Hot weather, light to moderate afternoon and evening thunderstorms continued vegetable areas. Land preparation, laying of plastic for fall plantings active. Seedings, transplantings increasing for celery, eggplant, peppers, tomatoes. Seedings sweet corn active in Everglades. Plantings should start early September most other vegetables.

GEORGIA: Precipitation limited to widely scattered thundershowers 6th through 10th. Thundershowers over most of State on 10th through weekend. Weekly rainfall totals over 1.00 in. for few spots but most totals under 1.00 in. Average temperatures slightly below normal west central and slightly above normal elsewhere.

Soil moisture 15% surplus, 76% adequate, 9% short. Average days suitable for fieldwork: 4.7. Main activities harvesting, haying, spraying for weeds, insects and disease. Corn dough 98%, 99% last year and average; dent 89%, 91% last year, average 95%; mature 66%, 72% last year, average 83%; 17% harvested, 16% last year, average 30%; conditions 8% excellent, 61% good, 22% fair, 8% poor. Cotton setting bolls 93%, 98% last year, average 99%; bolls open 3% this year and last; average 11%; conditions 11% excellent, 70% good, 19% fair. Soybeans blooming 78%, 75% last year, average 80%; setting pods 43%, 45% last year, average 47%; conditions 16% excellent, 75% good, 8% fair. Peanut conditions 16% excellent, 82% good, 2% fair. White mold and corn rootworm still causing concern in peanuts. Tobacco 65% harvested, 73% last year, average 80%; condition 7% excellent, 71% good, 19% fair, 3% poor. Watermelons 93% harvested, 94% last year and average; conditions 58% good, 37% fair, 5% poor. Apples 34% picked, 31% last year, average 38%; conditions 8% excellent, 65% good, 24% fair, 3% poor. Peaches 93% picked, 98% last year and average; conditions 9% excellent, 69% good, 17% fair, 3% poor. Pecan conditions 6% excellent, 67% good, 23% fair. Hay 16% excellent, 73% good, 9% fair. Pasture 19% excellent, 73% good, 6% fair. Cattle 7% excellent, 81% good, 11% fair. Hogs 5% excellent, 79% good, 16% fair.

HAWAII: Weather remained unchanged from previous weeks. Some light to moderate showers fell during the latter part of the week; otherwise conditions were dry. Daily record high; and low, temperatures were set during the week.

Water restrictions continued on Oahu and in the Waimea district of Hawaii Island. Chinese cabbage production expected to remain on a moderate level. New plantings down due to the water conservation program. Head cabbage

production moderate and expected to increase next week. Head lettuce production moderate to heavy with an increase also expected next week. Papaya production seasonally up in most areas. Quality control tighter resulting in greater field culls. Packing plants in the final stages of implementing the double dip process which will replace EDB treatment of papayas that are for export to the mainland. Banana production will also increase seasonally in the next few weeks.

IDAHO: High pressure system brought hot temperatures and limited rainfall to the State. Temperatures ranged from 1 to 70 above normal across most of the State. The extreme eastern portion of the State was the exception with temperatures from 1 to 30 below normal recorded. Precipitation was scattered with the north and eastern parts of the State receiving the heaviest amounts. Departures ranged from 0.33 in. above normal for the north to slightly below normal for the remainder of the State.

Small grain harvest made good progress as 6.6 days were suitable for fieldwork. Winter wheat was 20% harvested to 19% last year and 26% average. Spring wheat advance to 9% harvested versus 7% in 1983 and 14% average. Spring barley was 12% harvested compared to 11% a year ago and 16% average. Potato development made good progress as most of the crop had closed rows. The second crop cutting of alfalfa hay reached 58% harvested versus 57% last year and average. Soil moisture was generally in good supply. Grasshoppers continued to cause crop damage in the southwestern and south central portions of the State.

ILLINOIS: Temperatures near normal to 80 above normal. Precipitation 0.00 to 1.83 in., mostly light amounts.

Soil moisture 18% adequate, 82% short. Corn silked 100%, last year 100%, average 100%; dough 60%, last year 58%, average 66%; dented 13%, last year 14%, average 24%. Corn condition 15% excellent, 57% good, 24% fair, 4% poor. Soybeans blooming 94%, last year 94%, average 92%; setting pods 66%, last year 68%, average 68%. Soybean condition 7% excellent, 55% good, 36% fair, 2% poor. Oats harvested 95%, last year 98%, average 97%. Alfalfa third crop cut 41%, last year 34%, average 34%. Alfalfa condition 6% excellent, 57% good, 30% fair, 7% poor. Pasture condition 2% excellent, 26% good, 43% fair, 29% poor. Days suitable for fieldwork: 6.5.

INDIANA: Temperatures 2 to 60 above normal. Maximums in mid to upper 80's minimums mid to upper 60's. Precipitation generally 0.30 in. in central areas with more than 2.00 in. many locations, southwest and northwest 0.10 to 0.20 in. elsewhere 0.60 to 0.70 in.

Fieldwork averaged 5.3 days. Topsoil and subsoil moisture short to adequate. Corn condition mostly good. Corn 98% silked, 1983 96%, average 93%. Corn 45% in dough, 1983 55%, average 55%. Soybean condition mostly good. Soybeans 100% in bloom, 1983 95%, average 90%. Soybeans 55% setting pods, 1983 50%, average 50%. Winter wheat 100% harvested, 1983 100%, average 100%. Oats 95% combined, 1983 98%, average 96%. Rye 100% combined, 1983 100%, average 100%. Wheat land 15% plowed, 1983 15%, average 15%. Alfalfa 95% cut twice, 1983 99%, average 91%. Pasture condition fair.

IOWA: Continued warm dry week. Days suitable for fieldwork: 6.5. Corn crop condition 30% excellent, 56% good, 12% fair, 2% poor to very poor. Corn acreage silking 94% complete; 96%

last year; 97% normal. Corn in or past milk stage 67% complete; 61% last year; 71% normal. Corn acreage in dough stage 25%; 20% last year; 31% normal. Soybean crop condition 19% excellent, 63% good, 16% fair, 2% poor to very poor. Soybean acreage bloomed 95% complete; 96% last year; 96% normal. Soybean acreage setting pods 76%; last year 80%; normal 78%. Oat acreage harvested 98% complete; 96% last year; 97% normal. Second crop of alfalfa 92% complete; 97% last year; 98% normal. Third crop alfalfa 12% complete; 9% last year; 19% normal. Second crop clover hay harvested 72%, 77% last year, 78% normal. Hay crop condition, 17% excellent, 57% good, 22% fair, 4% poor to very poor. Topsoil moisture conditions 1% surplus, 36% adequate, 63% short. Subsoil moisture conditions 2% surplus, 83% adequate, 15% short. Livestock mostly good to fair condition. Pasture conditions 9% excellent, 45% good, 34% fair, and 12% poor to very poor.

KANSAS: Precipitation averaged 0.20 in. northeast to 0.80 south central, but quite variable statewide. Temperatures averaged 77° northwest to 84° south central. These were normal southwest to 5° above normal northeast and 1 to 3° above normal elsewhere.

Wheat 100% harvested, 100% last year, 100% average. Sorghum 35% headed, 30% last year, 40% average. Greenbugs persist in moderate levels. Corn 99% silked, 90% last year, 90% average. Corn 55% dough, 25% last year, 50% average. European corn borer present in moderate levels. Soybeans 80% blooming, 70% last year, 60% average; 50% setting pods, 35% last year, 40% average. Topsoil moisture short, subsoil being depleted. Pasture and rangeland deteriorating. Days suitable for fieldwork: 6.5.

KENTUCKY: Typical August weather. Temperatures averaged about 2° above normal with highs around 90° mark, lows in 60's. Rain was widely scattered afternoon and evening thunderstorms. While many areas remained dry. Isolated locations, mainly in central, reported between 1.00 to 2.00 in. Crops fair to mostly good condition. Rain needed, soil moisture 47% short, 52% adequate, 1% surplus. Days favorable 5.6 out of 6.0. Primary activities topping tobacco, spraying, and haying. Burley 42% topped, about average, ahead of last year's 13%. Dark tobacco 55% topped and looking good. Some grasshopper and aphid problems on tobacco, but overall disease and insect problems normal or less. Corn 92% silked, last year 82%, average 90%. Approximately 30% corn dough or beyond, last year 18% in dough or beyond and 40% average. About 10% corn in dent. Soybeans 66% blooming, 55% last year, 65% average. About 25% setting pods compared 11% year ago and 23% average. Pastures fair, showing more dry weather stress than other crops.

LOUISIANA: Weekly average temperatures 1 to 3° below normal. High 95°, low 65°. Precipitation totals from 0.22 to 5.43 in.

Soil moisture adequate. Days suitable for fieldwork: 3.4. Activities included applying fungicides and insecticides; fertilizing pastures; planting fall vegetables; land preparation for sugarcane; cutting hay; harvesting rice, corn, sorghum, sweetpotatoes and vegetables. Rice headed 87% 1984, 69% 1983, 80% average; ripe 41% 1984, 23% 1983, 38% average; harvested 28% 1984, 8% 1983, 25% average; condition good. Corn dough stage 99% 1984, 96% 1983, 98% average; mature 79% 1984, 63% 1983, 76% average; harvest 17% 1984, 11% 1983, 27% average; condition good. Cotton setting bolls 99% 1984, 79% 1983, 94% average;

condition good. Soybeans blooming 85% 1984, 62% 1983, 75% average; setting pods 61% 1984, 40% 1983, 51% average; condition good. Sorghum headed 97% 1984, 85% 1983, 91% average; turning color 78% 1984, 55% 1983, 64% average; ripe 25% 1984, 9% 1983, 27% average; harvested 8% 1984, 1% 1983; condition good. Sweetpotatoes harvested 8% 1984, 3% 1983, 11% average; condition good. Sugarcane condition fair to good. Vegetable condition fair to good. Peaches harvested 99% 1984, 95% 1983, 98% average. Hay final cutting 7% 1984, 0% 1983. Pasture condition fair to good. Livestock condition good.

MARYLAND AND DELAWARE: Maryland: Scattered showers throughout the week kept crops in good condition. Heavy rains and some flooding occurred over the weekend. Temperatures averaged 3 to 5° above normal.

Farmers worked 4.3 days primarily harvesting hay and vegetables. Topsoil and subsoil moisture supplies remain adequate with some flooding in low areas. Corn 90% silked; equal to 1983. Corn dough 50%; 60% 1983 and average. Corn dented 10%; last year 15%. Soybeans 50% bloomed; last year 45%. Soybeans podded 25%; last year 20%, 30% average. Tobacco 60% bloomed and 25% topped. Tobacco harvest 5% complete, equal to last year but behind the 20% average. Peaches 50% harvested, 30% last year. Vegetable harvest now running ahead of last year for all crops except snap beans which are equal to year earlier progress.

Delaware: Showers have kept crop development near normal. Temperatures averaged 3 to 5° above normal with high humidity which has helped keep soils from drying.

Farmers worked 5.7 days primarily cutting hay and harvesting vegetables. Field corn 95% silked; 1983 90%, average 95%. Corn 45% dough; 45% 1983 and average 65%. Corn dented 20%; last year none, average 30%. Soybeans 50% bloomed; equal to 1983, average 55%. Soybeans podded 20%, 25% 1983 and average. Vegetable harvest behind last year's progress, except for tomatoes and cucumbers which are equal to 1983's progress.

MICHIGAN: Temperatures averaged 5° above normal. Moderate amounts of rain fell over most of the State. The rain alleviated dry conditions.

Midweek showers relieved dry conditions across the State. High humidity and fog with cloudy weather delayed combining and haying. Statewide 5.0 days suitable for fieldwork. Winter wheat 98% harvested, 97% last year, 95% average. Corn 90% silked, 90% last year, 92% average. Corn 20% in dough, 25% last year, 21% average. Oats 30% harvested, 45% last year, 48% average. Soybeans 90% bloomed, 95% last year, 91% average. Soybeans 45% setting pods, 55% last year, 51% average. Dry beans 35% setting pods, 60% last year, 61% average. Second cut hay 70% complete, 75% last year, 67% average. Tart cherry harvest virtually complete statewide. Harvest of most vegetables in progress.

MINNESOTA: The week began hot and humid with locally heavy rainfall and ended with little rain fall and moderate temperatures. Temperatures averaged 2 to 5° above normal. High: 101°; low 48°. Precipitation averaged 0.20 to 1.12 in. above normal for North Central, East Central and Southeast, and near normal to 0.46 in. below normal elsewhere. Greatest weekly total: 4.42 in.

Corn and soybean development benefitted from rains early in the week and small grain and hay harvest benefitted from dry weather late in the week. Most areas got at least some rain.

Spring wheat harvest approached its peak with good yields and best weights reported. Days suitable for fieldwork averaged 4.6. Topsoil moisture: 11% very short, 25% short, 60% adequate, 4% surplus. Corn condition: 43% poor to fair, 57% good to excellent. Soybean condition 41% poor to fair, 59% good to excellent. Field corn 97% tasseling, 1983 99%, normal 98%. Soybeans 96% blooming, 1983 96%, normal 97%. Sunflowers 81% blooming, 1983 77%, normal 78%. Field corn 60% in milk, 1983 52%, normal 54%. Field corn 11% in dough, 1983 18%, normal 13%. Soybeans 68% setting pods, 1983 64%, normal 66%. Harvested: Spring wheat 25% 1983 49%, normal 32%; oats 60%, 1983 73%, normal 57%; barley 68%, 1983 76%, normal 56%; winter wheat 92%, 1983 89%, normal 74%.

MISSISSIPPI: Average temperatures 1 to 40 below normal, extremes 64 and 95. Above normal rainfall in most areas of the State. Soil moisture adequate. Fieldwork 3.1 days suitable, 5.6 1983, 5.5 average. Main activities: insect and weed control measures, and preparing equipment for harvest.

Cotton condition good; 90% setting bolls, 80% 1983, 91% average; 0% open bolls, 0% 1983 and average. Soybeans good; 80% blooming, 67% 1983, 80% average; 32% podding, 22% 1983, 41% average. Rice good; 60% headed, 41% 1983, 55% average; 0% harvested 1984, 1983 and average. Sorghum good; 90% headed, 80% 1983, corn good to fair; 9% harvested, 7% 1983. Peach condition good; 88% harvested, 83% 1983, 86% average. Watermelon harvest 64% completed; hay harvest 68%; sorghum silage 31%; corn silage 37%; peanut harvest 8% completed and sweetpotato harvest 4% completed. Pasture condition good to fair.

MISSOURI: Temperatures averaged 2° above normal, the warm temperatures in the east and northeast. Isolated areas of the southwest received as much as 3.50 in. of rain. The Bootheel averaged 0.50 in. while the rest of the State received nil.

Days suitable for fieldwork: 6.2. Soybean blooming 77%, 78% last year, 71% normal. Soybeans setting pods 47%, 47% last year and 43% normal. Condition of soybeans 35% good, 55% fair, 10% poor. Corn 94% silking, 92% last year, 89% normal. Corn 51% in dough stage, 53% last year, 60% normal. Condition 33% good, 50% fair, 18% poor. Grain sorghum headed 79%, 68% last year, 65% normal. Condition 0% excellent, 41% good, 43% fair, 16% poor. Cotton setting bolls 100% this year, 76% last year, 87% normal. Condition of cotton 67% good, and 33% fair. Alfalfa hay 3rd cutting 49% this year, 49% last year, 46% normal. Condition of pasture 3% good, 35% fair, 62% poor. Topsoil moisture supply 5% adequate, 95% short.

MONTANA: Another very hot week. Temperatures averaged 2° above normal in west and southwest, 3 to 7° above normal over rest of State. Precipitation generally light with most areas receiving some rain during week. West and southwest, as well as parts of south central received heaviest amounts, 0.25 to 0.50 in.

Topsoil moisture short except in southeast. Subsoil moisture short except in southwest. Fieldwork, days suitable: 6.5. Crops headed and green or beyond compared with last year and average: Winter wheat headed 0, 0, 0; winter wheat turning 5, 15, 20; winter wheat ripe 25, 30, 40; winter wheat harvested 70, 55, 40; spring wheat headed 0, 10, 15; spring wheat turning 30, 40, 50; spring wheat ripe 45, 30, 25; spring wheat harvested 25, 20, 10; barley

headed 5, 5, 15; barley turning 30, 40, 45; barley ripe 35, 35, 30; barley harvested 30, 20, 10; oats headed 10, 10, 15; oats turning 40, 35, 40; oats ripe 30, 35, 25; oats harvested 20, 20, 20. Second cutting alfalfa hay 40% complete, last year 35%, average 30%. Range feed adequate west of Continental Divide, short elsewhere. Stock water supplies adequate in west and south central, short elsewhere. Grasshopper damage light in northwest; moderate in north central, central and southwest; heavy in east and south central.

NEBRASKA: Warm, sunny week. Temperatures 2 to 4° above normal. Only isolated light showers. Greatest amounts in north central areas.

Wheat harvested 99%, 100% last year, 100% normal. All corn condition good. Irrigated corn good. Dryland corn mostly good to fair. Corn silking 94%, 95% last year and 97% average. Corn in dough 20%, 20% last year and 40% average. Sorghum mostly good to fair. Headed 50%, 65% last year, 70% average. Soybeans good to fair. Blooming 90%, 98% last year, 93% average. Podding 55%, 75% last year and 70% average. Alfalfa good. Second cutting 98%, 100% last year, 100% average. Third cutting 15%, 20% last year, 25% average. Oat harvest 98%, comparisons not available. Topsoil moisture short. Subsoil moisture mostly adequate to short. Pasture and range feed mostly adequate to short. Days suitable for fieldwork: 6.9.

NEVADA: Summer trend of warmer days continued with slightly above normal temperatures reported all areas. Precipitation generally light and limited to southern and eastern sections. Considerable cloudiness late in period responsible for a 4° below normal drop. Temperature extremes: 37 and 109°.

Scattered showers affected haying operations and small grain combining some localities south and east. Cattle benefitting from good grazing.

NEW ENGLAND: Above average temperatures and high humidity dominated. Scattered showers and thunderstorms were the only precipitation. Soil moisture adequate to short.

Soil moisture adequate to short. There were 6.0 days available for fieldwork. Fieldwork progress 1.0 days behind normal. Second cut hay 60% complete, 65% last year and 60% normal. Shade tobacco harvest underway, conditions good. Wild blueberry harvest underway in Maine; above average crop expected.

NEW JERSEY: Temperatures averaged 4° above normal. Extremes were 54° on the 11th and 98° on the 8th. Weekly rainfall averaged 0.45 in. north, 0.68 in. central and 0.73 in. south. The heaviest 24-hour total was 2.00 in. on the 12th to 13th. Estimated soil moisture, in percent of field capacity, averaged 76% north, 69% central and 58% south. Four inch soil temperatures averaged 76° north, 76° central and 81° south.

Fieldwork: 5.8 days suitable. The main farm activities included harvesting vegetables, making hay, cultivating and applying pesticides. Alfalfa yield has been good, however frequent showers caused some spoilage. Blueberry harvest nearing completion. Light harvest of mid-season peach varieties has begun. Good quantity and quality of summer apples being harvested. Fall varieties sizing well, however some varieties damaged from disease infestation. Soybeans and field corn in good to excellent condition.

NEW MEXICO: Average temperatures below normal. Minimum temperature: 40°, northern mountains. Maximum temperature: 95°; southeastern plains. Persistent thundershower activity over southeast half of State. Weekly rainfall total 2.00 to 6.00 in. Shower activity considerably less northwest half. Some light hail reported in isolated locations.

Soil moisture supplies short to adequate. Alfalfa good condition. Third cutting continues, fourth cutting starting. Cotton rated fair to good; progress slowed due to cooler temperatures. Corn good to excellent; tasseling. Irrigated, dryland grain sorghum good; heading. Onions rated good; harvest delayed by rains. Lettuce seeding underway; field operations slowed by rains. Chile and potatoes rated good. Cattle and sheep good. Range condition fair to good. Cotton setting bolls: 98%, last year 76%, average 90%.

NEW YORK: Temperatures were above normal and humidity was high. Daytime temperatures were restricted somewhat but night readings were generally well above normal. Rainfall was heavy in much of the central and western parts of the State, but in the eastern part amounts were variable.

Scattered showers and thundershowers brought relief to crops in much of the State. Many corn fields have silked and are starting to pollinate. Wheat harvest 90% complete, compared with the 86% average. Oat harvest 19% complete, behind 28% last year and the 31% average, second cut alfalfa 61% complete, compared with 81% a year ago and the average of 66%. Harvest of early apples underway. About 10% of the peaches picked. Early harvest of onions, cabbage, sweet corn, potatoes and lettuce underway.

NORTH CAROLINA: Temperatures averaged 1 to 3° above normal east of the mountains and near normal in the mountains. Precipitation was heavy in some areas and nonexistent in others.

Soil moisture: 79% adequate, 21% surplus. Days suitable for fieldwork: 4.9. Condition: Tobacco 12% fair, 74% good, 14% excellent. Corn 5% fair, 63% good, 32% excellent. Cotton 18% fair, 82% good. Peanuts 17% fair, 50% good, 33% excellent. Soybeans 8% fair, 81% good, 11% excellent. Irish potatoes: 27% fair, 64% good, 9% excellent. Apples 18% fair, 64% good, 18% excellent. Peaches 9% fair, 82% good, 9% excellent. Phenological stages: Cotton squared 96%, 1983 95%. Cotton setting bolls: 87%, 1983 81%, 87% average. Corn silked: 100%, 1983 98%, 98% average. Corn soft-dough: 81%, 1983 83%, 87% average. Corn dent: 56%, 1983 67%, 70% average. Corn mature: 25%, 1983 30%, 35% average. Soybeans blooming: 62%, 1983 56%, 56% average. Setting pods: 25%, 1983 23%, 26% average. Harvest: Flue-cured: 31%, 1983 38%, 48% average. Peaches: 87%, 1983 90%, 84% average. Major farm activities: Harvesting, topping and suckering tobacco, spraying and harvesting vegetable crops and fruit crop harvest.

NORTH DAKOTA: A week of large temperature contrasts and spotty, heavy precipitation. High temperatures ranged from 101° on 11th to 67° on 9th. Lows ranged from 74° on 6th to 42° on 12th. The coolest temperatures came midweek as did most of the precipitation. Rainfall amounts ranged from zero to most locations to 2.36 in. at Grand Forks. The State's small grain harvests moving at excellent pace thanks to dry weather. Harvest of each crop was near or ahead of average pace. Almost entire State (94%) rated short or very short of topsoil moisture, and 86% rated short or very short of

subsoil moisture. The percent combined compared to last year and average for: Hard red spring wheat 20, 37, 22; durum 10, 22, 12; oats 32, 50, 32; barley 56, 65, 41; and winter wheat 88, 87, 70. Test weights and protein have rated good from early reports. Condition of most row crops has deteriorated significantly in past week due to dryness. Sunflower, potatoes and dry beans rate mostly fair. Corn, flax and soybeans rate mostly good, but down considerably from last week.

OHIO: Temperatures 3 to 7° degrees above normal. Highs low to mid-80s, lows mid to upper 60s. Precipitation variable. Range from 0.00 in. to 4.15 in. Most stations reported over 1.00 in. Base 50 growing degree day accumulations 20 to 30 above normal; season totals still below average.

Topsoil moisture 25% short, 70% adequate, 5% surplus; 4° days suitable for fieldwork. Intermittent showers improved crop conditions where they fell. Corn silked 90% 1984, 95% 1983, 95% average; dough 25% 1984, 35% 1983, 40% average; insect populations declining; crop condition good. Soybeans blooming 95% 1984, 90% 1983, 90% average; setting pods 55% 1984, 50% 1983, 65% average; fields reported very weedy; condition fair to good. Winter wheat harvested 100% 1984, 1983, average. Pasture condition fair to good.

OKLAHOMA: Temperatures average 3° below normal Panhandle to 1° above normal northeast. Precipitation averaged 0.21 in. Panhandle to 2.39 in. southeast.

Cool evening temperatures and scattered showers improved crop growth and development. More rain needed to insure good production. Farmers applying fertilizer to wheat ground. Dry weather north and west produced drought stress on sorghums. Sorghum and livestock good to fair, cotton and pastures fair condition. Sorghum headed: 60%, 50% 1983, 55% average. Cotton setting bolls: 50%, 45% 1983, 50% average.

OREGON: Less than 0.10 in. precipitation along coast and northeast. Rest of State dry. Temperatures 4 to 5° above normal.

Winter wheat 58% harvested, 83% last year, 76% average. Grass seed harvest near completion, yields about average. Spearmint harvest complete, peppermint harvest underway. Sugarbeets look good. Caneberry harvest complete, except evergreen blackberries. Early blueberry picking. Strawberry and raspberry fieldwork and fertilization for next season. Tart cherry picking in Willamette Valley, also early apple varieties. Filberts size large, some brown stain reported. Prunes light. Cranberries sizing nicely. Nedford Bartlett harvest to begin this week, mites in Anjous. Hood River peaches ripening, Red Havens being pickied; pears and apples sizing well. Picking Union County cherries, some hail damage last week. Potato harvest at Hermiston, yields down, quality good. Central Klamath potatoes look good. Sweet corn harvest in Jackson County. Willamette Valley snap bean harvest progressing, yields excellent; broccoli harvest near complete, poor yields. Malheur onion harvest to begin in 2 weeks. Livestock good to excellent. Rains keeping high elevation ranges good to excellent. Lower elevations drying out, conditions normal.

PENNSYLVANIA: A southerly flow gave no relief from the heat and humidity. Showers and thunderstorms became heavy near the end of the week. In a few locations weekly total was over 2.00 in. The State average precipitation was

1.59 in. Flash flooding was observed in the southern counties.

Days suitable: 4.0. Moisture adequate to surplus. Activities: Making hay; clipping pastures; topping tobacco; harvesting oats, wheat, sweet corn, green beans, apples, peaches, tomatoes, cabbage. Wheat harvest 93% complete, last year virtually complete. Oats 46% harvested, 70% harvested a year ago. Potatoes 9% harvested, last year 17% harvested. Corn 62% silked with 19% in dough, last year 75% silked with 15% in dough; average 79% silked with 26% in dough. Second crop alfalfa 75% harvested, last year 86% harvested. Third crop alfalfa 19% harvested, last year 26% harvested. Second crop clo-tim 56% complete, last year 53% complete. Quality of hay made mostly fair to poor. Feed from pastures mostly average to above average.

PUERTO RICO: Island average rainfall 0.65 in. or 0.97 in. below normal. Highest weekly total 3.65 in. Highest 24-hour total 3.65 in. Temperatures averaged about 81 to 80° on coasts and 77 to 76° interior divisions. Mean station temperatures ranged from 83.4 to 68.6°. Extremes 95 and 61°.

SOUTH CAROLINA: Less rainfall, more sunshine than previous two weeks. Drying conditions developing during week allowed many areas to begin drying out from late July, early August soil soaking rains. Rainfall occurred as scattered thunderstorms during end of week.

Soil moisture adequate. Days available for fieldwork: 5.2. Corn condition fair to good; 92% dough stage, 96% last year, 95% average; 54% maturing, 43% last year, 66% average. Cotton condition good; 94% setting bolls, 100% last year, 100% average. Soybean condition good; 53% blooming, 56% last year, 69% average; 20% setting pods, 20% last year, 29% average. Tobacco condition good; 70% harvested, 43% last year, 69% average. Peach condition good; 87% harvested, 88% last year, 89% average. Melon harvest nearing completion, condition fair to good.

SOUTH DAKOTA: Average temperatures were 3 to 6° above normal. Extremes: 105 and 46°. Widely scattered thunderstorms dropped some rain on much of the State.

Days suitable for fieldwork: 5.0. Topsoil moisture was short over most of the State with adequate supplies reported over much of the eastern third and south central portions. Grasshoppers continue to cause problems in the west and have moved into the east. Greenbugs and some woolly bear caterpillars also being reported in the south. Spring wheat harvested 48%, 1983 82%, average 77%. Sorghum headed 46%, 1983 45a%, average 57%. Winter wheat harvested 97%, 1983 98%, average 97%. Corn silk 75%, 1983 84%, average 87%. Corn dough 17%, 1983 15%, average 19%.

TENNESSEE: Mostly cloudy skies for the week were the result of an upper level disturbance which continued to influence the State's weather. A weak front moved in from the north at early weekend. All stations reported precipitation amounts at some point during the week with portions of the west and Cumberland Plateau receiving less. Temperatures averaged close to normal with extremes at Bristol (65°) and Jackson (94°).

Soil moisture 16% surplus, 68% adequate, 16% short. Corn dough 70%, 1983 70%, average 87%; dent 20%, 1982 22%, average 42%; mature 2%, 1983 1%, average 6%. Cotton setting bolls 85%, 1982

82%, average 91%; open bolls 3%, 1983 3%, average 2%. Soybeans blooming 77%, 1983 72%, average 74%; setting pods 25%, 1983 16%, average 32%. Tobacco: Burley harvested 3%, 1983 1%, average 12%; dark-fired 6%, 1983 1%, average 11%; air-cured 4%, 1983 1%, average 14%. Pastures and livestock in good condition.

TEXAS: Heavy rains West Texas first part week as upper level lows combined moist unstable air. Afternoon heating produced showers, thunderstorms southeast and South Texas, sea breeze thunderstorms along Coastal Plains. Upper level low pressure system, unstable air mass West Texas most week, producing scattered showers and thunderstorms Trans-Pecos, Panhandle, North and East Texas. Temperatures near normal across Texas, except below normal High and Low Plains and Trans-Pecos. Rainfall below normal South Texas, Lower Valley, near normal Trans-Pecos. Above normal rainfall elsewhere.

Crops: Light rain scattered areas latter portion week, temporarily halting vegetable harvesting High Plains, cotton harvesting Rio Grande Valley. Insect populations continue to be a problem in the Plains. Recent showers helped conditions Low Plains where moisture short. Harvesting activities winding down Coastal Bend. Cotton bolls good size High Plains; spraying continues moderate to heavy populations bollworms. Dryland fields responded favorably recent showers. Irrigated fields look good, making excellent growth. Dry weather cut yield prospects Blacklands. Harvesting virtually complete Coastal Bend. Intermittent showers slowed harvesting Rio Grande Valley. Yields good this year. Current condition 70% of normal compared with 82% a year ago. Reported conditions 4% excellent, 56% good, 18% fair, 20% poor, and 2% failure. Grain sorghum heading continues Plains. Dryland fields improving after being drought stressed. Harvesting continues Blacklands. Greenbug populations increased, so have spraying activities Plains. Harvesting completed Upper Coast, Coastal Bend, yields better than expected. Current condition 67% of normal compared with 74% a year ago. Current conditions 5% excellent, 38% good, 41% fair, 13% poor and 3% failure. Corn good progress plains during week under scattered showers. Currently, crop in milk stage. Harvesting continued Blacklands, yields down year ago. Harvesting virtually complete Central, South Texas, varied yields reported. Current condition 70% of normal. Reported condition 9% excellent, 42% good, 31% fair, 16% poor and 2% failure. Dryland peanuts revived many areas by recent showers, currently growing well where showers fell. Other areas need moisture. Soybeans good progress, pods are filling Plains regions. No insect problems. Upper Coast, beans bloom stage. Rain would be beneficial this stage of development. Rice harvest continued, near normal yields reported. Only minor delays resulted light showers. Some watering and fertilizing begun for second crop.

Cotton squaring 95% 1984, 98% 1983, 98% average; setting bolls 78% 1984, 72% 1983, 78% average; open bolls 9% 1984, 3% 1983, 11% average; harvested 6% 1984, 1% 1983, 3% average. Rice turning color 84% 1984, 91% 1983, 93% average; harvested 42% 1984, 30% 1983, 66% average. Sorghum headed 76% 1984, 78% 1983, 84% average; turning color 63% 1984, 67% 1983, 67% average; mature 56% 1984, 48% 1983, 58% average; harvested for grain 51% 1984, 41% 1983, 31% average. Corn harvest for grain 38% 1984, 18% 1983, 23% average. Peanuts harvested 0% 1984, 0% 1983, 1% average.

Commercial vegetables: High Plains, onion harvest continued, weather permitted. Potato digging temporarily halted wet weather. Yields good to excellent. Trans-Pecos, green chili, tomato harvest continued between showers. San Antonio-Winter Garden, land preparation fall crops begun, some planting in progress. Rio Grande Valley, land preparation fall vegetables continues. Early seeding tomatoes, peppers, cabbage, broccoli begun. East Texas, watermelon, cantaloupe harvest continues. Sweetpotato harvest begin few weeks. Peach harvest nearing completion statewide, only later varieties available. Pecan nut droppage continues due drought conditions, some aphid damage Coastal, southern portion State. Crop water stage. Other areas fair set.

Range and livestock: Rain latter part week helped native pastures improve where grazing been short. Cattle shipped High Plains, where good pasture conditions exist. Third and fourth cuttings alfalfa. Other areas marketings drop slightly due minor improvement pasture conditions. Livestock fair to poor conditions. Many areas critically short pasture and tank water.

UTAH: Widely scattered thunderstorms deposited measurable precipitation at 3/4 of reporting stations. Accumulations mostly light to moderate with occasional heavy amounts. Temperatures averaged 2° above normal; maximums ranged 3° below to 6° above; minimums 5° below to 7° above.

Days suitable for fieldwork totaled 5.8. Soil moisture on nonirrigated pasture and rangelands mostly adequate. Field corn over 6 ft. high, 58% in tassel stages. Second crop alfalfa hay harvest 76% complete. Winter wheat 47% combined. Barley 62% ripe, 36% harvested. Spring wheat 50% ripe, 21% harvested. Oats 62% ripe, 21% harvested. Small grain yields varied. Livestock in good condition. Range feed adequate on ranges now in use.

VIRGINIA: Warm and very wet. Temperatures near to above normal. Flood watches and warnings for much of horth and west 10th through 12th. Many small streams overflowed their banks. Roads washed out. Mud slides and sections of roadways caved in parts of the watch and warning areas. Rains in some locations totaled 6.00 in. during period. Southeast coastal sections received little rain with exception of 12th around 5.00 in. in Hampton Roads area.

Continued wet conditions aiding most crops but some disease problems due to excessive moisture. Topsoil moisture ratings 8% short, 74% adequate and 18% surplus. Days suitable for fieldwork: 4.4. Corn condition good to excellent with 89% silk, 53% dough and 27% dent, compared with 90% silk, 64% dough and 29% dent 1983, and 91% silk, 67% dough average. Soybeans good to excellent condition with 55% blooming and 24% setting pods, 55% blooming and 27% setting pods last year. Tobacco good to excellent condition. Blue mold continues to be monitored. Flue tobacco harvest 20% complete, 18% last year and 23% average. Burley harvest just under way. Fire tobacco harvest 10% complete, 6% last year 15% average. Sun tobacco 4% complete, 3% last year 12% average. Peanuts good to excellent condition. Continued spraying for Leafspot and Sclerotenia Blight. Peach harvest 41% complete, 38% last year. Apple harvest 8% complete. Potato harvest nearing completion. Hay and pasture good to excellent condition, although hay quality suffering due to excessive moisture. Livestock remain good to excellent condition.

WASHINGTON: A weather disturbance produced some light rain as it crossed the State early in the week. Total amounts were less than 0.10 in. except in the northeast where about 0.25 in. was reported. The overall weekly weather pattern was typical of late summer; hot and dry conditions prevailed east of the Cascades. It was warm and dry over the western interior, and the coast was mostly cloudy and cool.

Harvest of winter wheat progressing well in southeast with generally favorable harvesting conditions. Wheat harvest slowed two days in a few areas due to rain showers. Yield prospects for most areas continue to look good. Shriveled grains reported in a few individual fields in the southeast. Spring wheat harvest ranges from 0% to 50% complete. Barley harvest ranges from 0% to 85% complete. Corn continues to grow rapidly from the warm weather, but many fields could use some rain. Second cutting alfalfa continuing in west, while a few areas on east side getting into third cutting. Harvest of apricots continues. Peach harvest continues. Raspberry harvest complete. Blueberry harvest in full swing most areas. Broccoli and cauliflower harvest continues. Harvest of sweet corn, peppers, beans, cucumbers, and summer squash continues. Harvest of early Norgold potatoes continues, harvest of Russett Burbanks has started. Green pea harvest continues in the northwest counties. Dry pea harvest picking up speed in the southeast. Pasture remain adequate with several areas short. Winter wheat harvested 48%, 65% last year, 63% average.

WEST VIRGINIA: Temperatures averaged well above normal. Low 57°, high 93°. Precipitation averaged well above normal. Flooding reported in eastern Panhandle later in the week.

Soil moisture adequate to surplus. Days worked averaged 3.4. Main activities: hay harvesting, gardening, maintenance. Corn reported in good condition. Wheat, 98% harvested. Barley, 99% harvested. Oats 62% harvested. First hay 98% harvested, 85% of normal. Second hay 46% harvested at 72% of normal. Pastures were in good to fair condition. Tobacco was in fair to good condition. Peaches were 63% harvested at 70% of normal. Showers across the State slowed hay and grain harvesting and began to affect tobacco quality.

WISCONSIN: The week started with hazy, hot and humid weather with cool dry Canadian air overspreading the entire State by the end of the week. Rainfall averaged 1.00 in. from showers and thunderstorms which fell over most of the State early in the week.

Good growing weather for all crop often meant bad harvesting weather for hay and small grains. Corn silking was 86%, 84% last year and a 87% avg. Corn in dough stage was 20% this year, 27% last year and a 29% avg. Oats was 44% harvested, 48% last year and a 46% avg. Second crop hay was 62% harvested, 69% last year and a 68% avg. Winter wheat was 80% harvested, 82% last year.

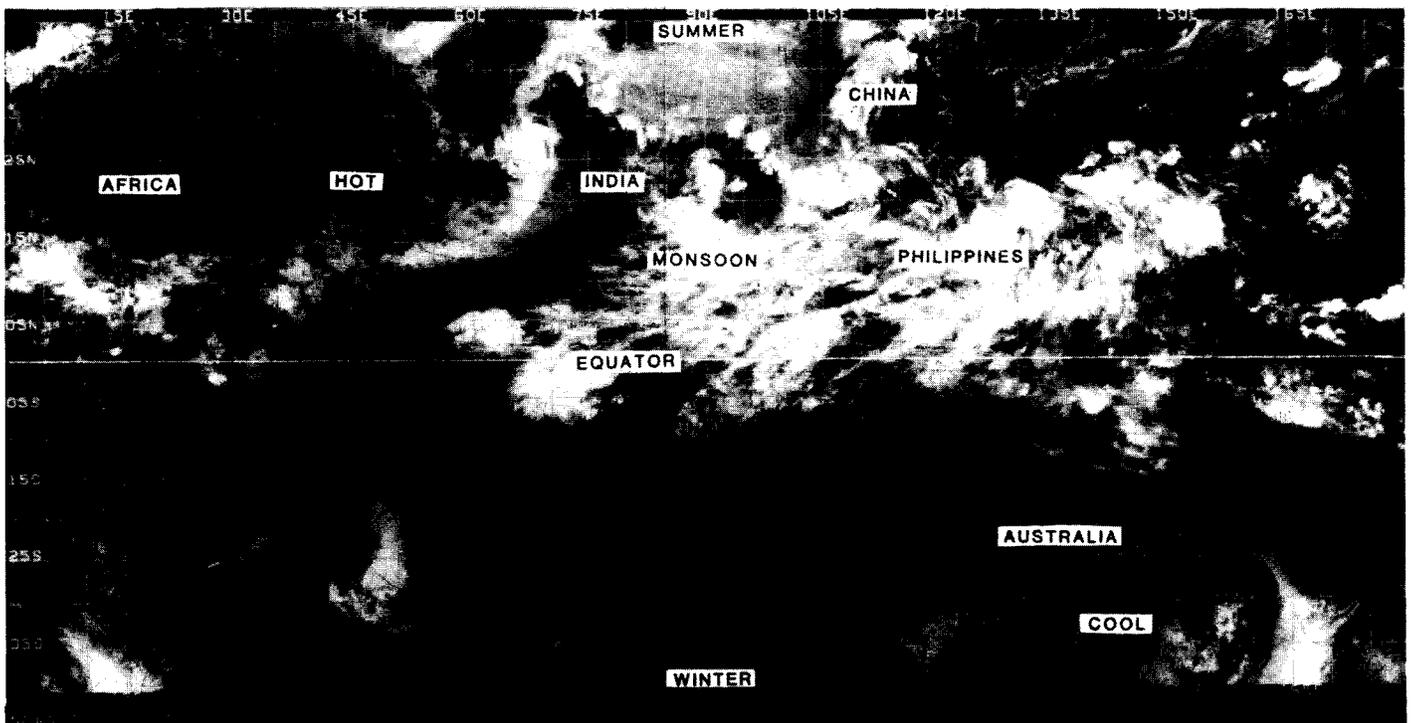
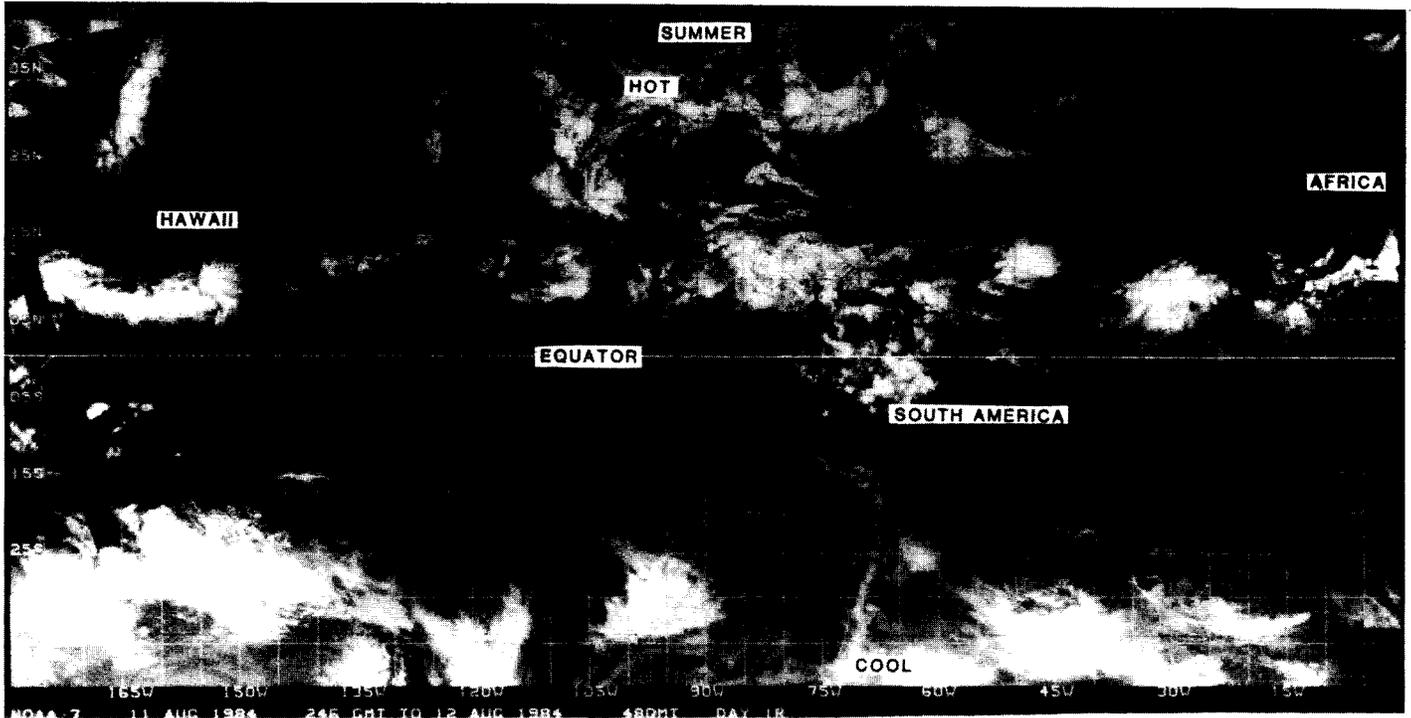
WYOMING: Temperatures above normal. Precipitation below normal most areas.

Topsoil moisture short 64% State. Subsoil moisture adequate 60% State. Days suitable for fieldwork: 6.0. Winter wheat: 40% mature, 55% harvested. Last year, 17% mature, 81% harvested. Barley: 55% mature, 15% harvested. Last year, 31% mature, 45% harvested. Spring wheat: 40% mature, 20% harvested. Last year, 34% mature, 10% harvested. Alfalfa, second cutting 40% complete. Other hay harvest 60%

(continued on p. 30)

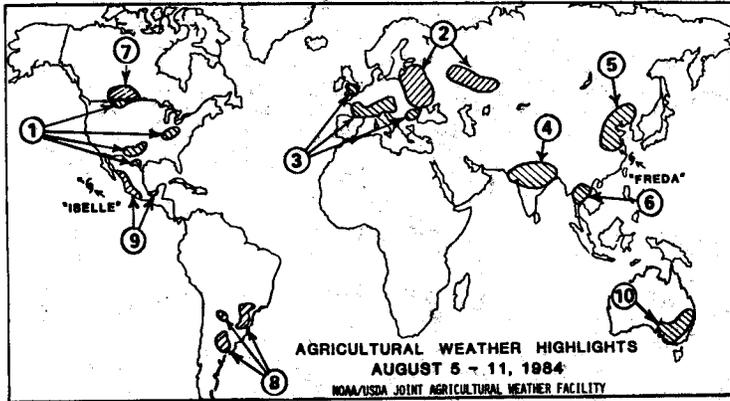
TROPICAL WEATHER

August 11



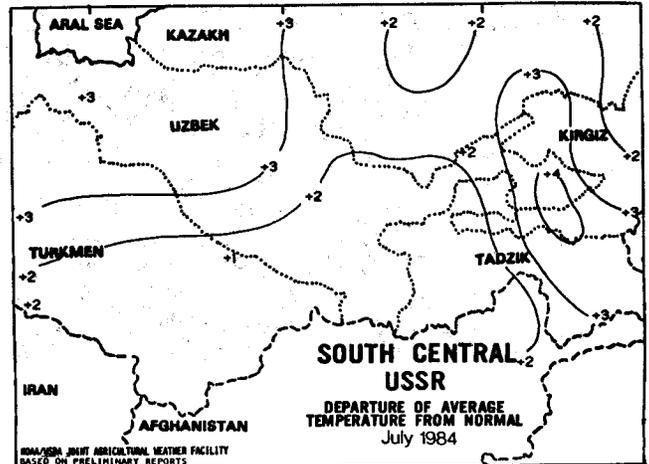
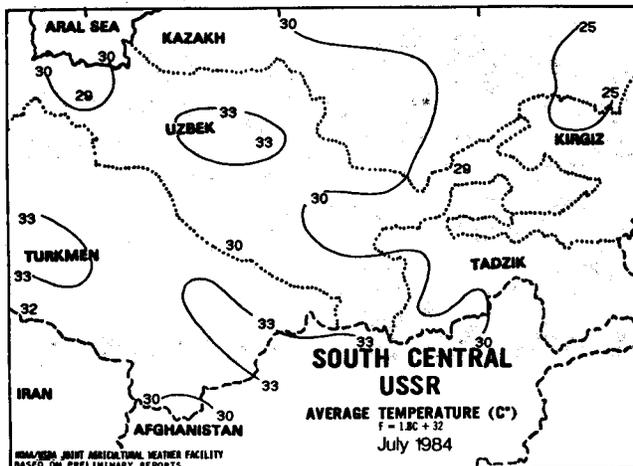
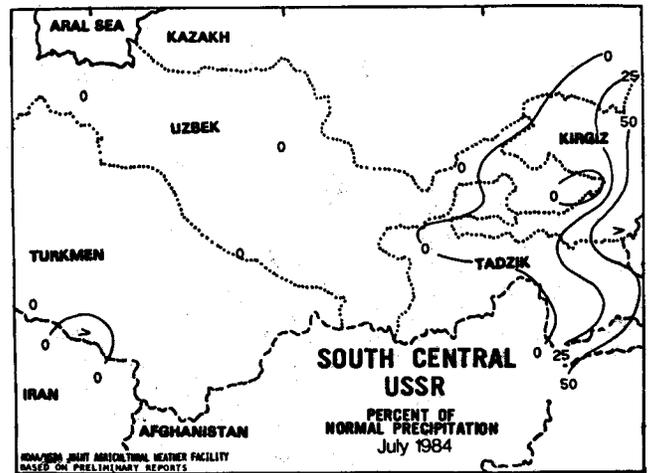
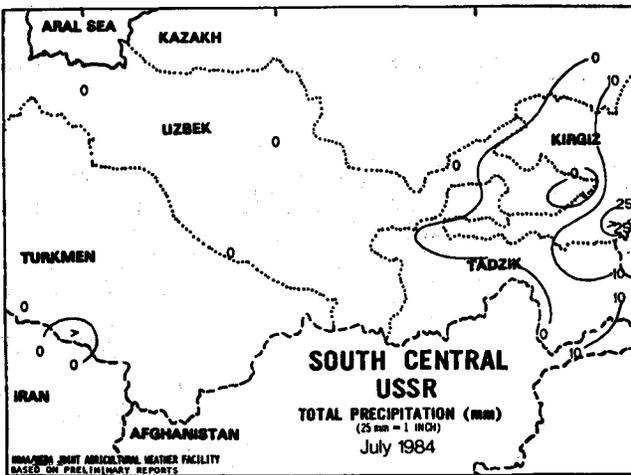
International Weather and Crop Summary

August 5-11



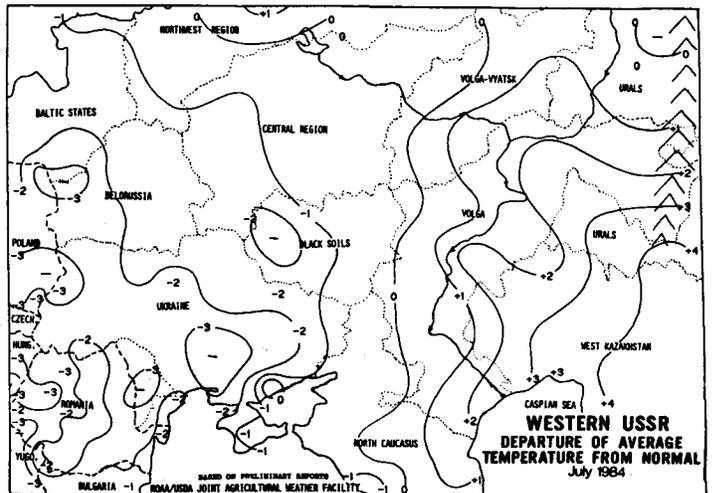
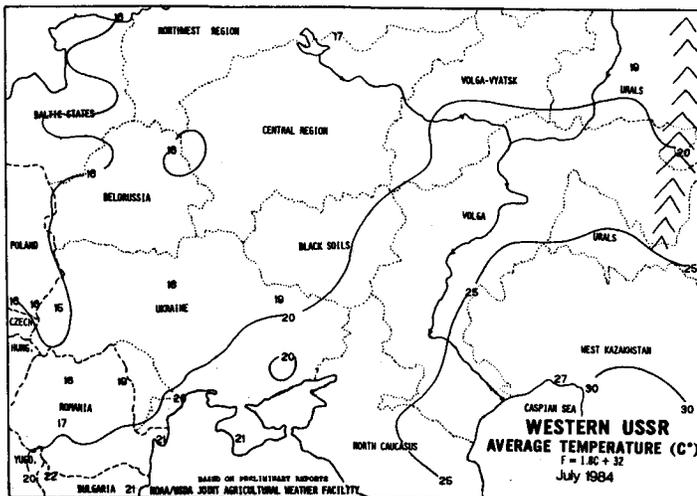
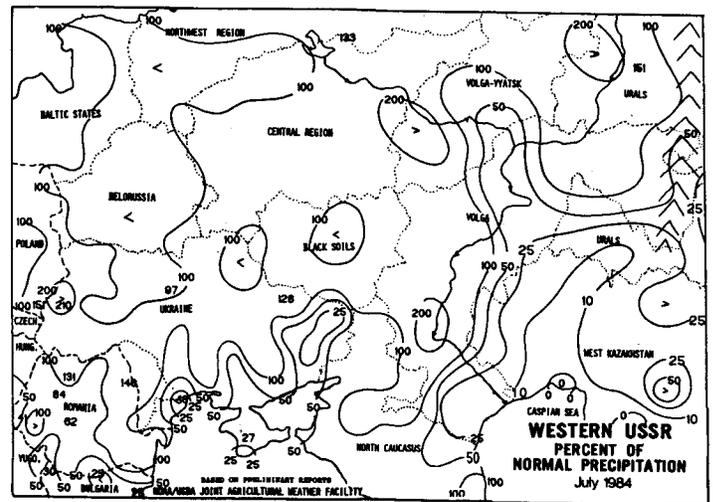
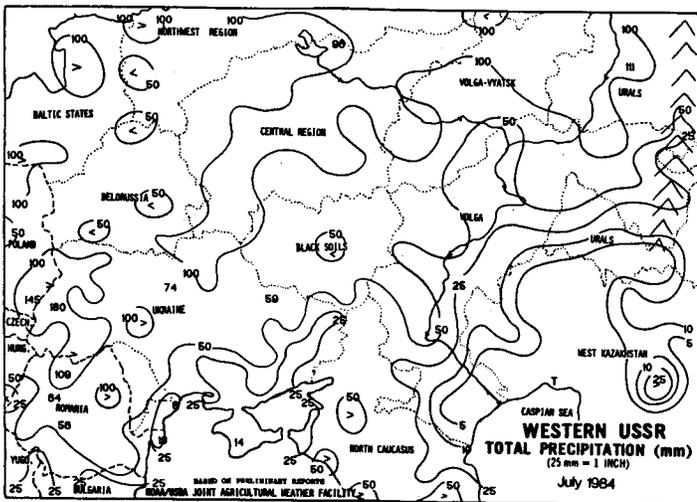
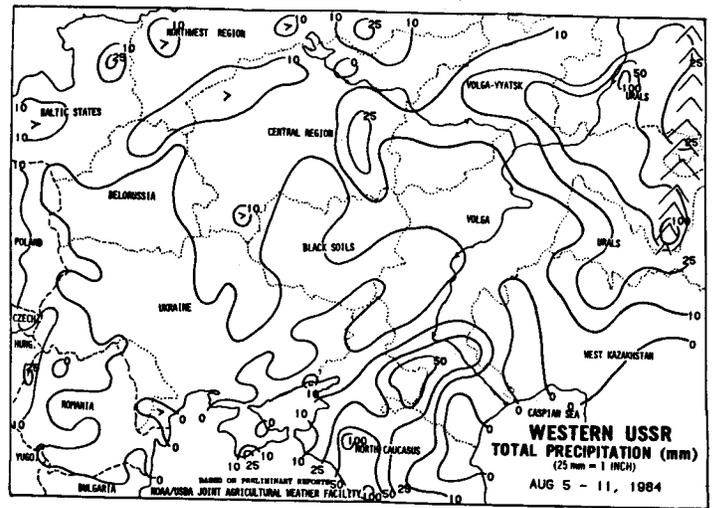
HIGHLIGHTS:

1. UNITED STATES ... Moderate to heavy rains in western Texas and eastern Oklahoma relieve crop stress. Much of the eastern Corn Belt benefits from moderate rains, but western sections remain dry. Crops are further stressed by dry conditions in central Texas and Montana.
2. USSR ... Dry weather aids harvesting in west European crop areas. Wet weather creates harvest delays in northeast European grain areas and the southwestern New Lands.
3. EUROPE ... Heavy rains create the potential for localized flooding in northern Italy, northwest Yugoslavia, Austria, and Hungary. Showers benefit late-filling crops in England and France. Warm, dry weather aids harvest and promotes corn growth in the southeast.
4. SOUTH ASIA ... A concentrated band of rain through central India improves conditions for cotton and groundnuts in the west while maintaining good moisture for rice in the east.
5. EASTERN ASIA ... Typhoon Freda brings much-needed rain to parts of the North China Plain and southern Manchuria, however some flooding is expected.
6. SOUTHEAST ASIA ... Showers benefit corn and rice in the filling stage following below-normal July precipitation.
7. CANADA ... Hot, dry weather hastens ripening spring wheat and rapeseed. Crop deterioration is most pronounced in the southern crop areas of Saskatchewan and Alberta as the crop yield potential declines.
8. SOUTH AMERICA ... Unfavorable dryness persists over Argentina's western wheat areas where the planting season has nearly ended. Some showers fall over southern wheat areas which have sufficient moisture for the emerged winter wheat. More rainfall over southern Brazil aids wheat in the grain filling stage in Parana. Dryness continues over Brazil's coffee area.
9. MEXICO ... Beneficial rain falls in parts of the southern Plateau corn belt and the western vegetable areas. Much of the east coast is too dry.
10. AUSTRALIA ... Showers fall over most wheat areas. Adequate moisture is available for crop emergence in the previously dry eastern crop areas. Favorable conditions continue in the west, increasing the crop yield potential, which reflects the marked improvement in recent weather conditions.



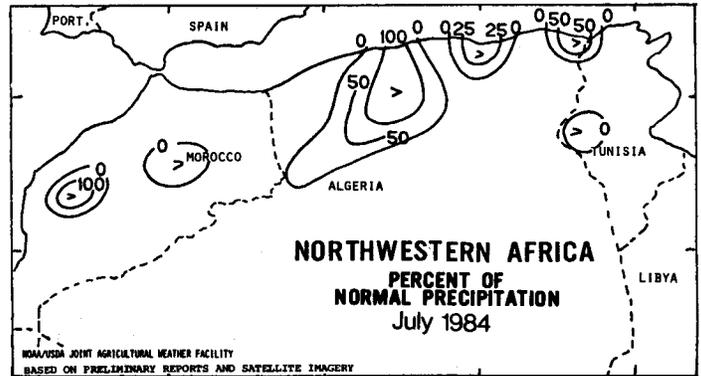
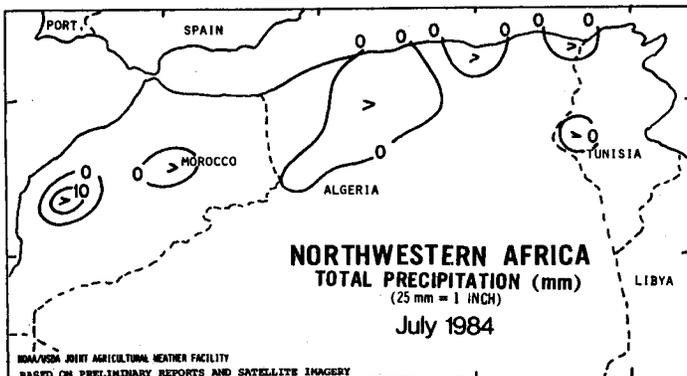
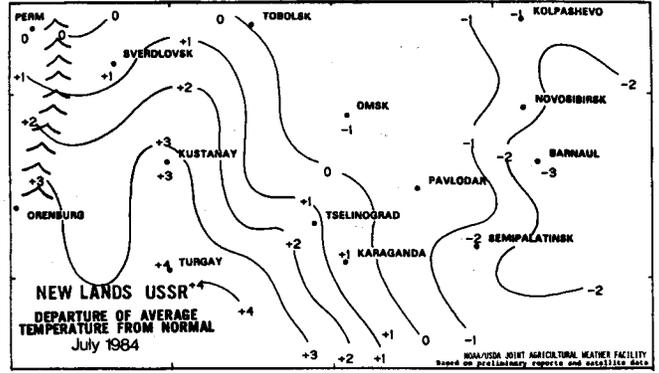
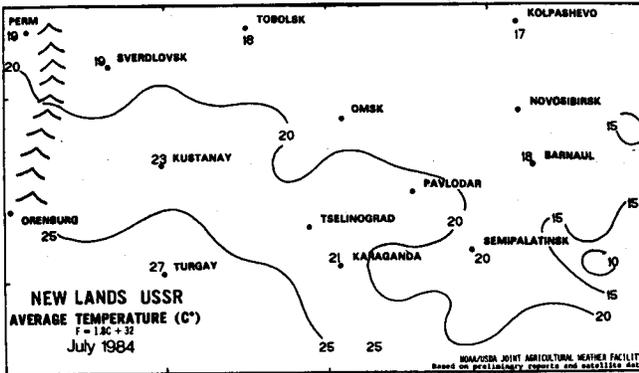
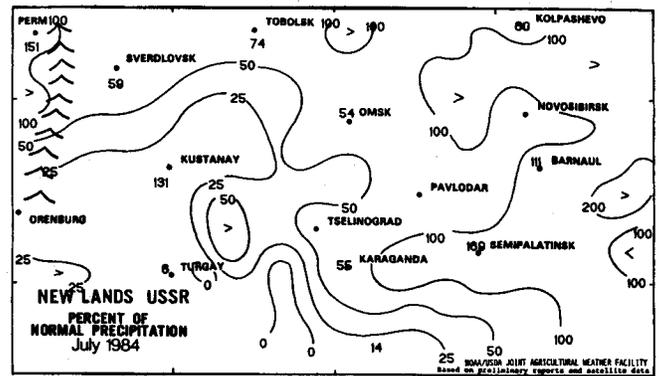
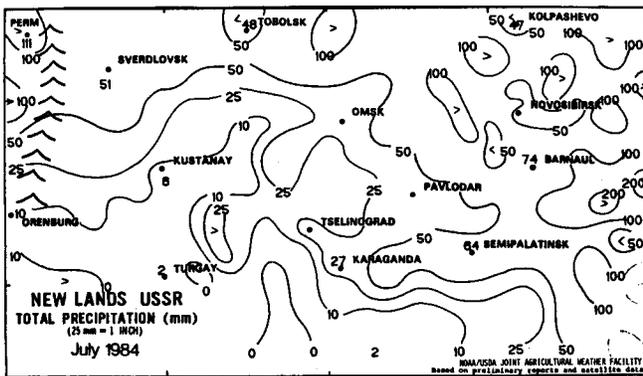
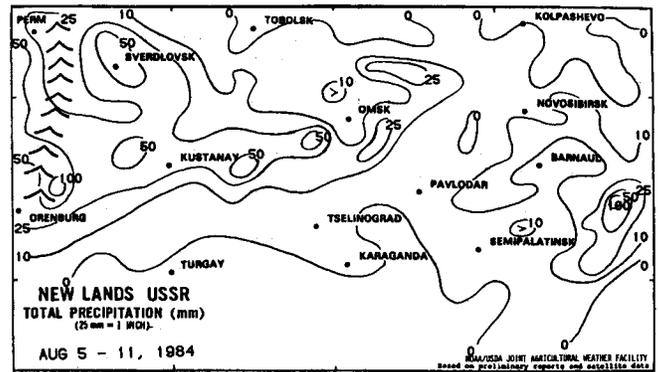
WESTERN USSR...Generally dry weather covered most of the region except for crop areas in the North Caucasus, and the northeast which received moderate amounts of rain (25 to 50 mm). A drying trend, which began late in July over the west, and continued this week, favored grain maturation and harvesting activity. However, persistent dryness during the month and occasional hot weather stressed corn in the critical reproductive stages, thereby reducing yields in the southeastern Ukraine and northern North Caucasus. The latest official USDA corn estimate for the USSR is 3.09 metric tons/hectare, a 3-percent drop from last month.* The wet weather which covered northeastern crop areas including the eastern Central Region, the Volga Vyatsk, and the northern Urals, this week is a continued pattern since July. Drier weather is needed in these areas to increase the winter grain harvest pace, and to allow winter grain planting to begin. The optimum date for winter grain planting in the north is around mid-August.

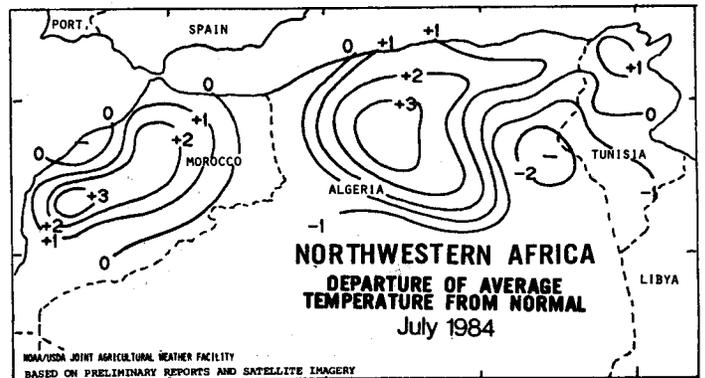
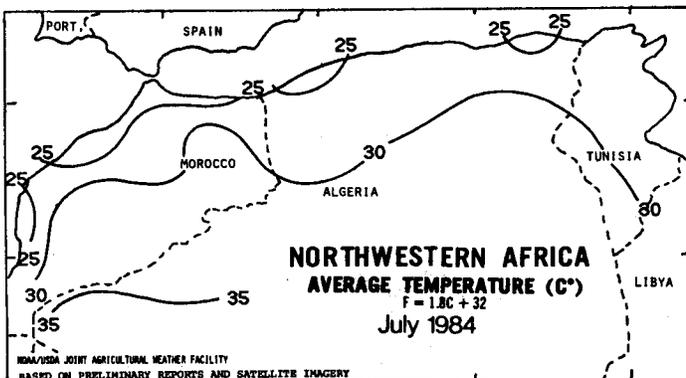
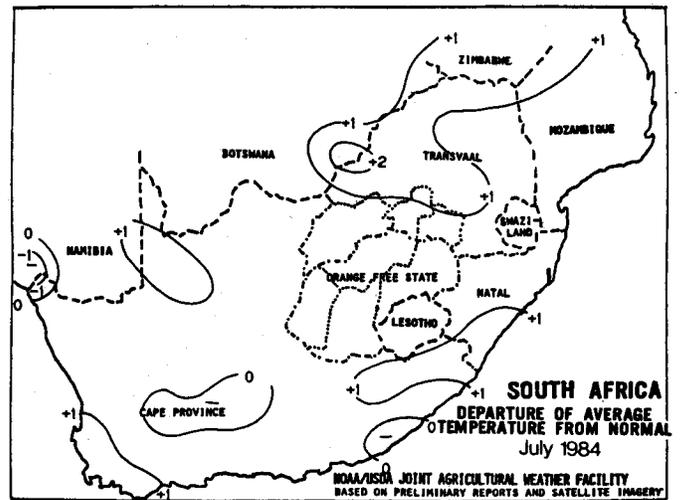
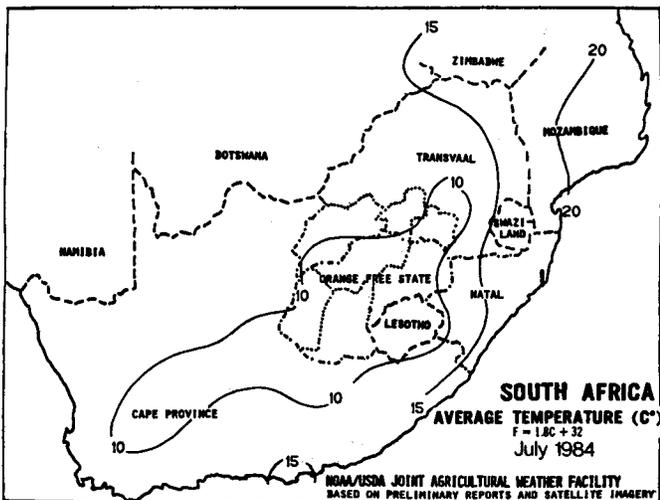
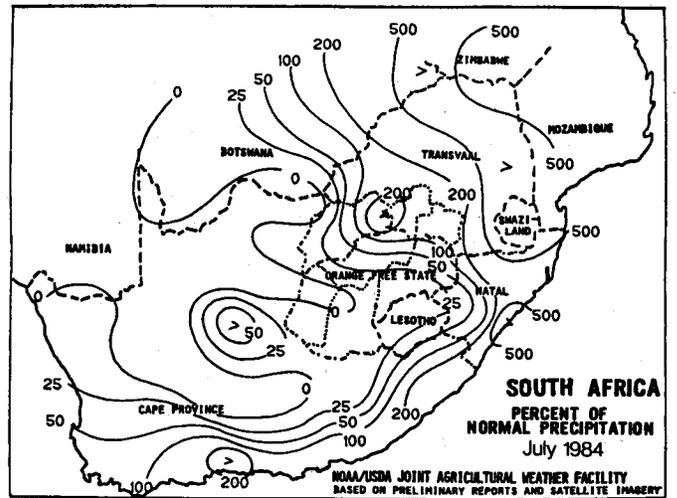
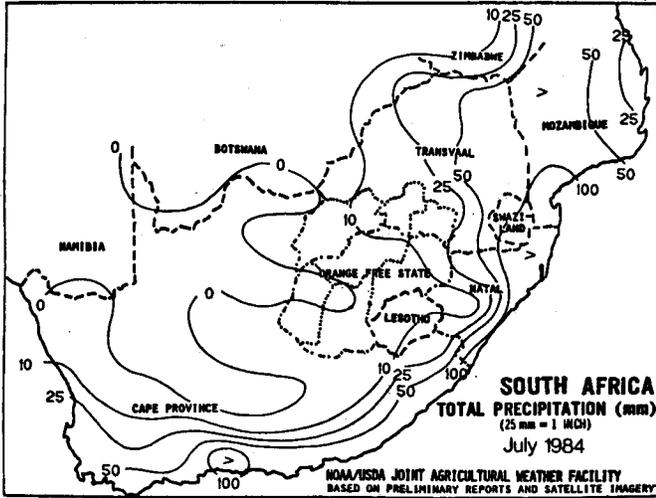
*For current area and production estimates see the August 10, 1984, USDA World Crop Production Report.



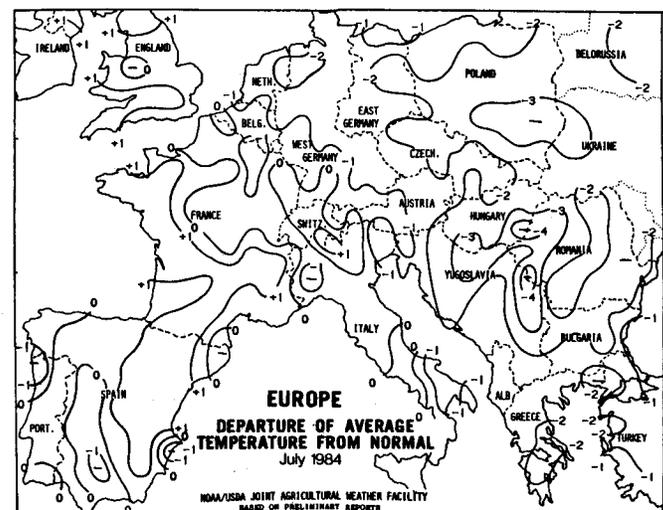
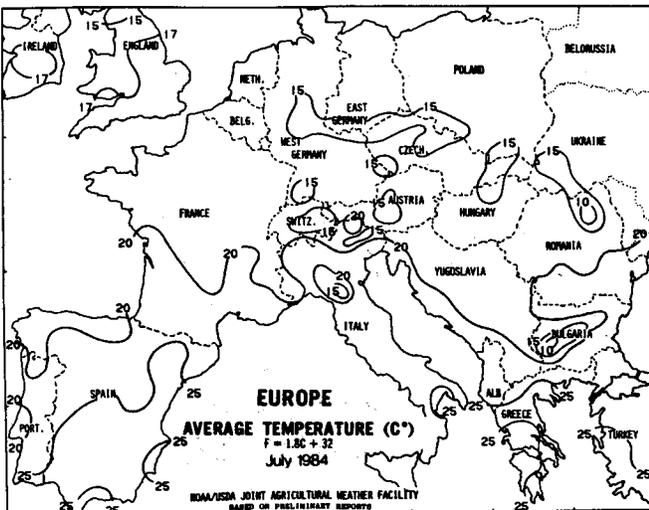
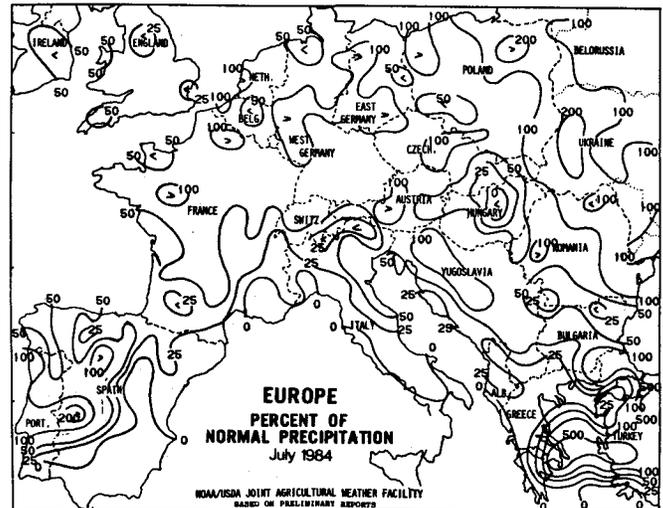
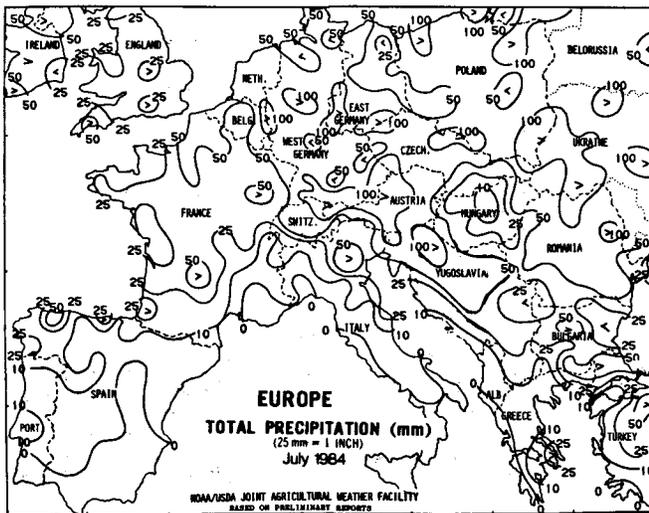
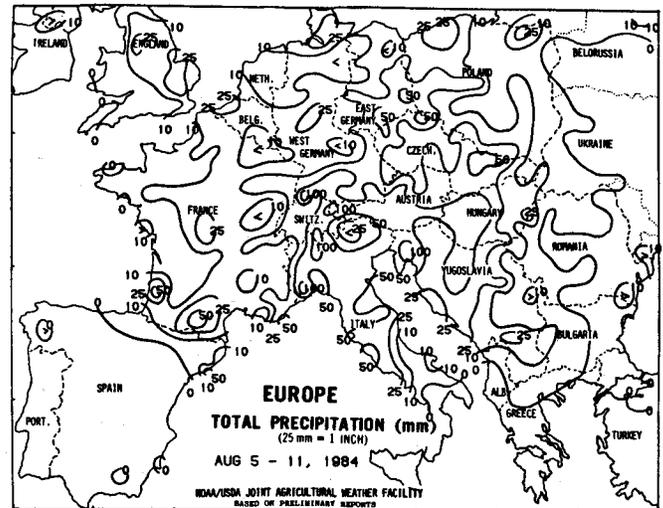
NEW LANDS... Showers (10 to 25 mm) continued to cover spring wheat in the southern Urals and central Kazakhstan, reversing July's unseasonably hot, dry weather pattern. The unfavorable July weather conditions stressed wheat which progressed through the flowering and filling stages, consequently reducing the yields. The latest official USDA wheat estimate for the USSR is 1.51 metric tons/hectare, a 7-percent drop from last month. Wheat includes both winter and spring varieties. Warm, dry weather is needed in these areas for maturation and harvest activity. In eastern crop areas, unseasonably cool, moist conditions continued July's favorable weather pattern which had benefited spring wheat in the flowering and filling stages. Currently, spring wheat in the east is in the late filling stage, and seasonal weather is needed to promote maturity. The average date for the first autumn frost in the east is September 10.

*For current area and production estimates see the August 10, 1984, USDA World Crop Production Report.

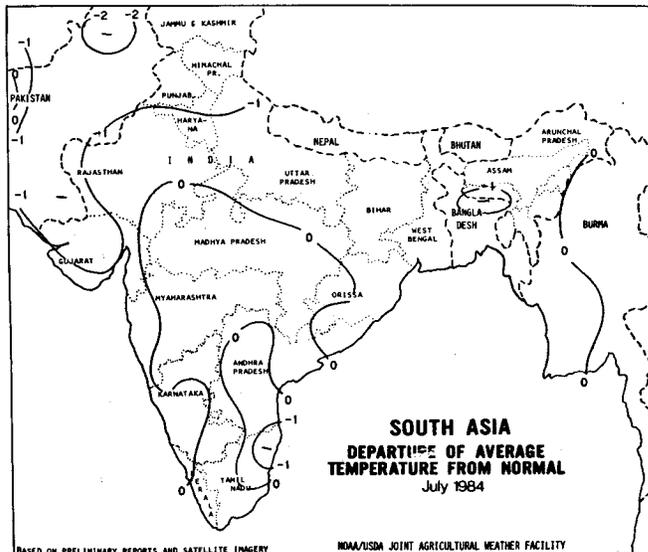
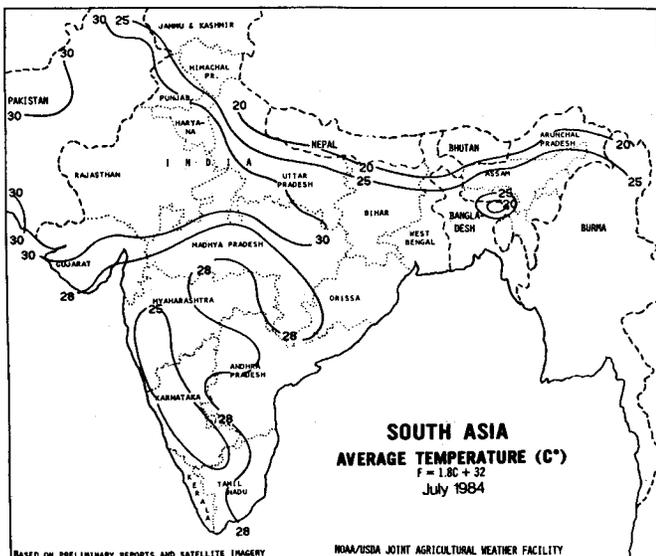
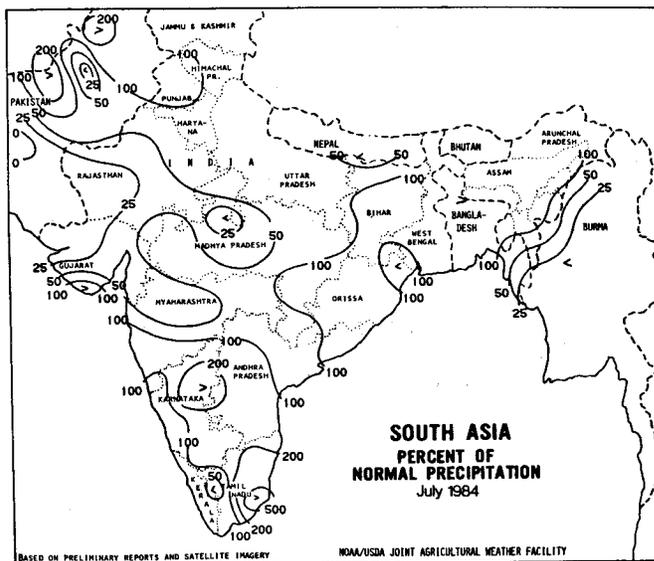
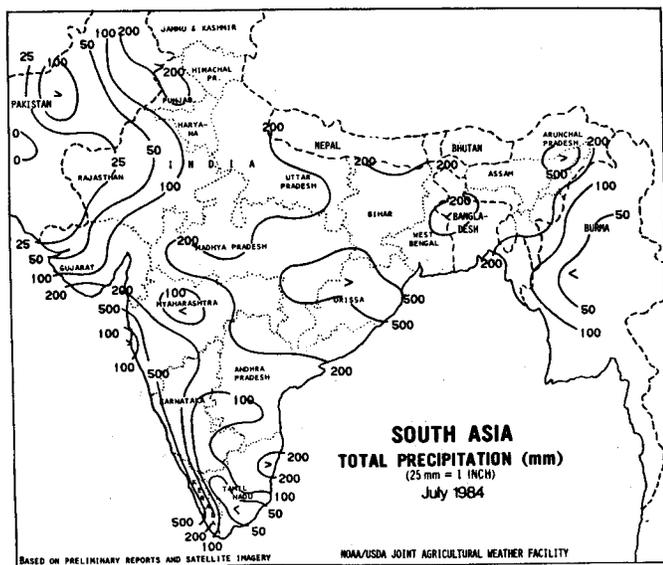
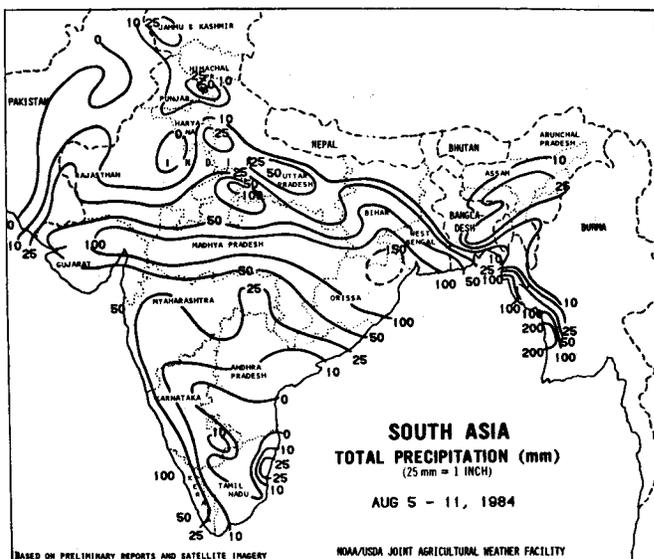




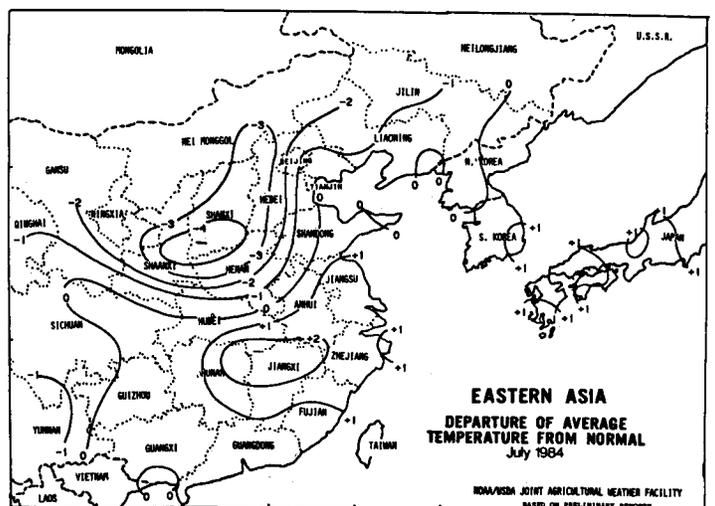
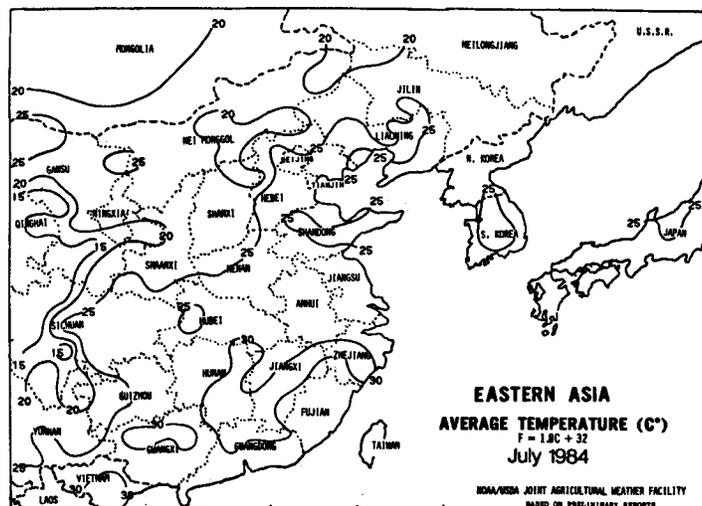
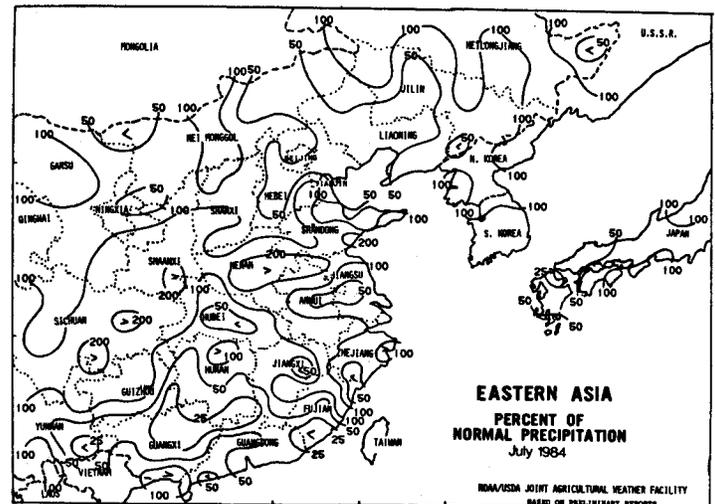
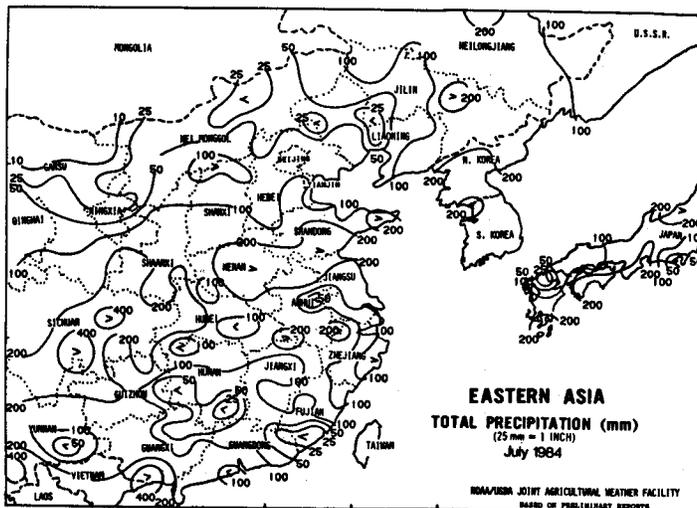
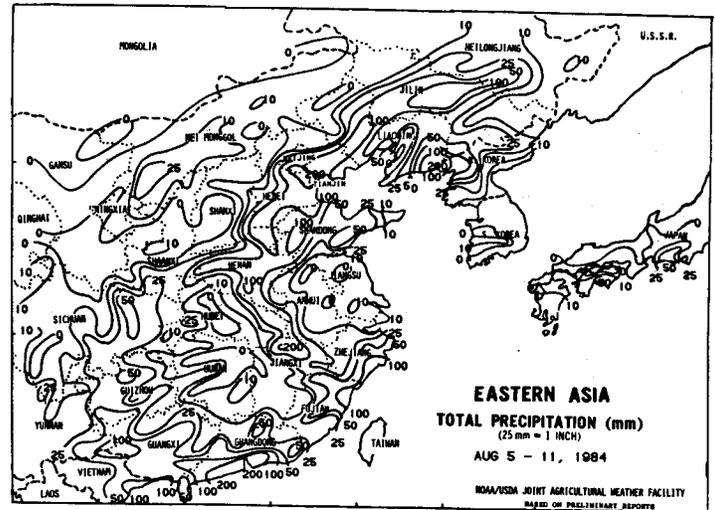
EUROPE...A storm system developed over Italy at mid-week producing heavy rains (50 to 100 mm) over northern Italy, northwest Yugoslavia, Switzerland, Austria, and Hungary. The rains created the potential for some local flooding, and likely delayed harvest activity. Crops in these areas received mostly below-normal precipitation during July. In France and England, below-normal July precipitation reduced prospects for summer crops, but favored winter grain maturation and harvest activity. Showers covered these areas this week favoring crops which are still in the filling stage. In northern Europe, although July's precipitation was below normal, the rains were persistent, and temperatures were below normal. As a result, spring grains in the filling stage were benefited, but the winter grain harvest was delayed. In southeastern Europe, dry weather this week favored crop maturation and harvest activity. In addition, above-normal temperature promoted corn growth slowed by unseasonably low temperatures during July.



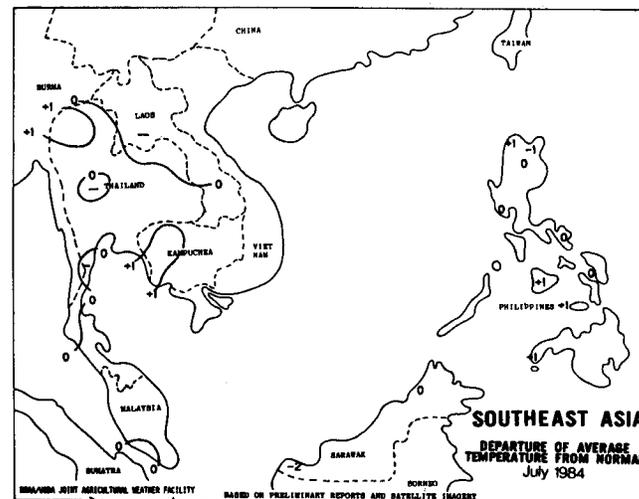
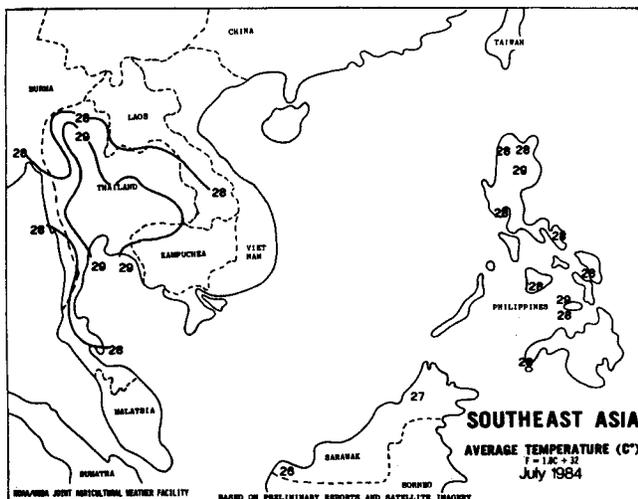
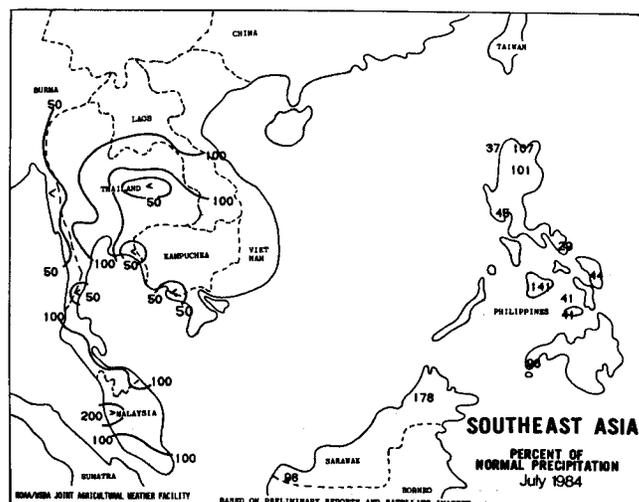
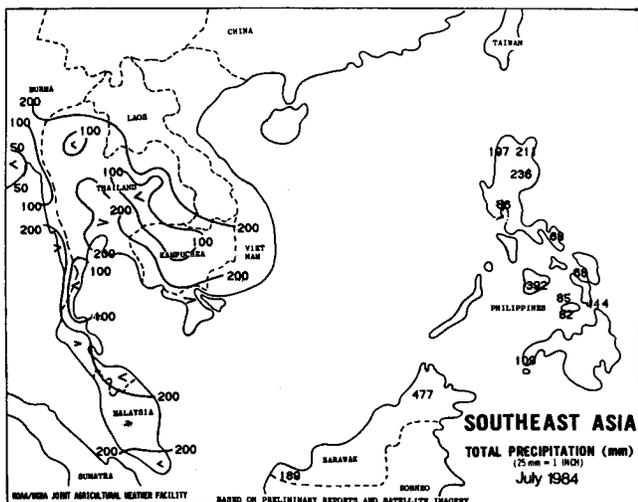
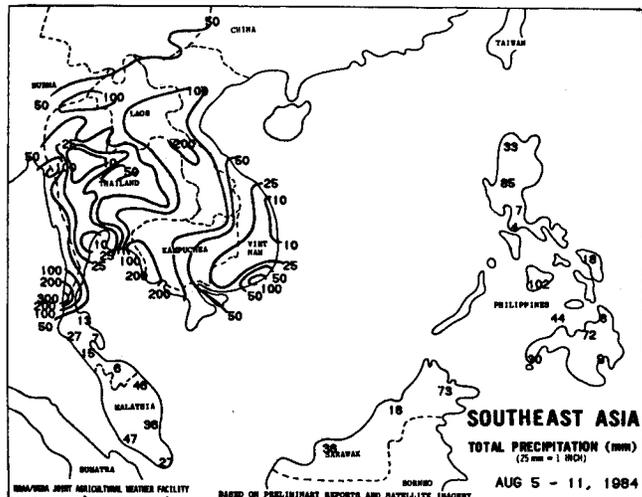
SOUTH ASIA... A tropical low-pressure system dominated the weather in India this week. The system moved westward from Orissa and West Bengal through Gujarat producing a narrow band of moderate to heavy rain (50-150 mm). The moisture was very beneficial for cotton and groundnuts in the vegetative stage in Gujarat and western Madhya Pradesh where July precipitation was only half of normal. Localized storms provided northern India with mostly below-normal July accumulations, however, much of the region is irrigated. Light rain (less than 15 mm) covered peninsular India this week, but moisture supplies should be adequate for rice following above-normal July rainfall. Additional rain would benefit autumn rice in the heading stage.



EASTERN ASIA...Early in the week, Typhoon Freda entered southeastern China bringing heavy rain to coastal Zhejiang and Fujian, benefiting late rice nearing the heading stage. Freda moved northward and merged with a frontal system, producing moderate to very heavy rain (50-250 mm) in Henan, Hebei, and southern Manchuria. The heavier rain was unfavorable for southern cotton in the open boll stage. Some localized flooding was likely near Beijing. Moderate rain in central Liaoning was beneficial for corn in the filling stage, following much-below normal July rainfall. Mostly dry weather in Hubei was beneficial for cotton in the open boll stage. Scattered rain during the last 2 weeks in the southwest has improved conditions for late rice, but more rain would benefit rice in parts of Hunan and Jiangxi.

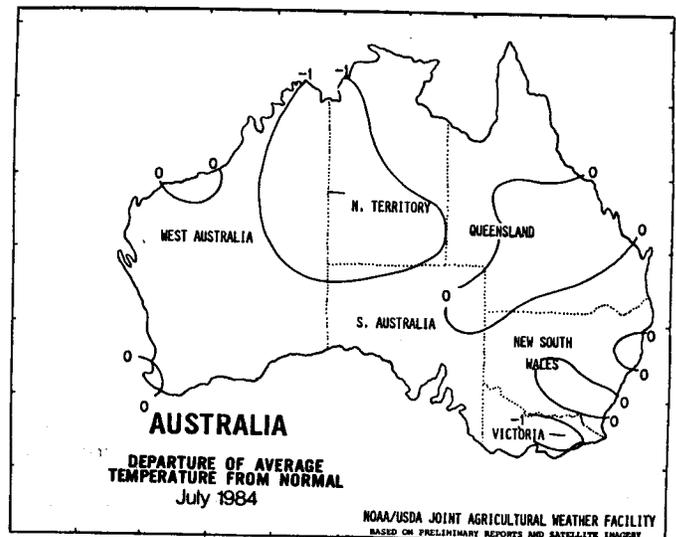
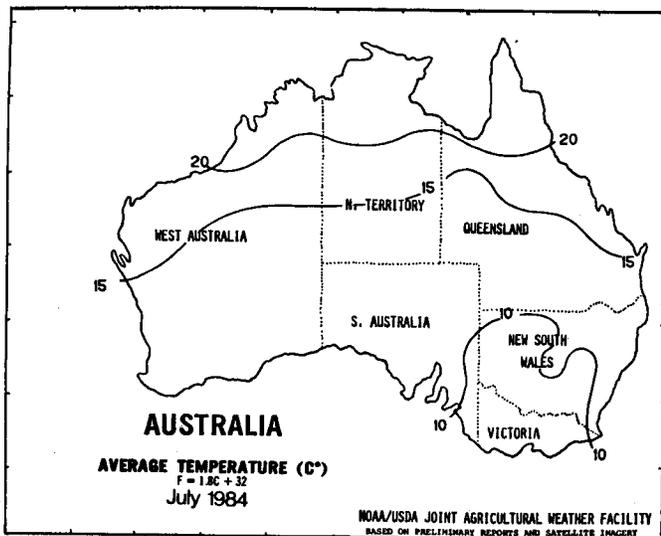
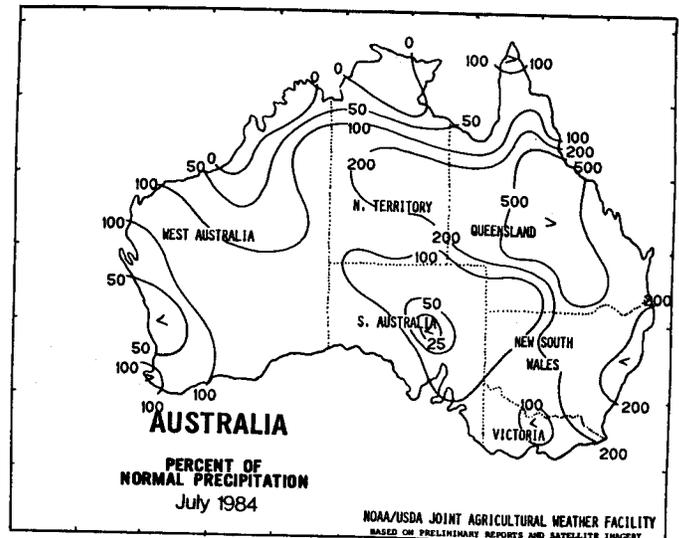
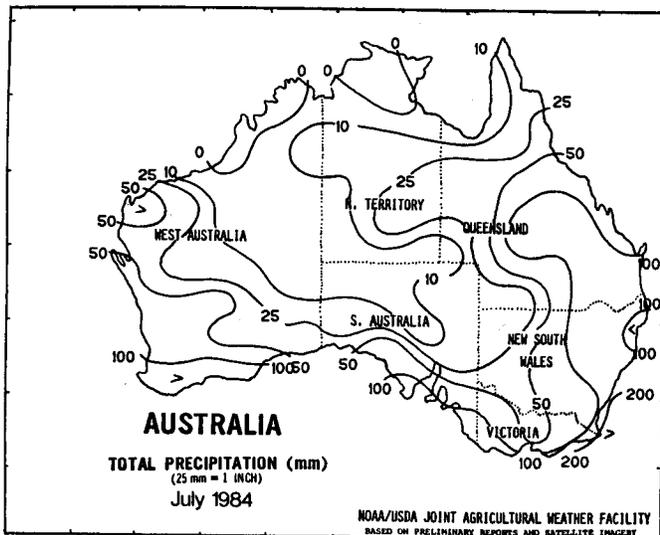
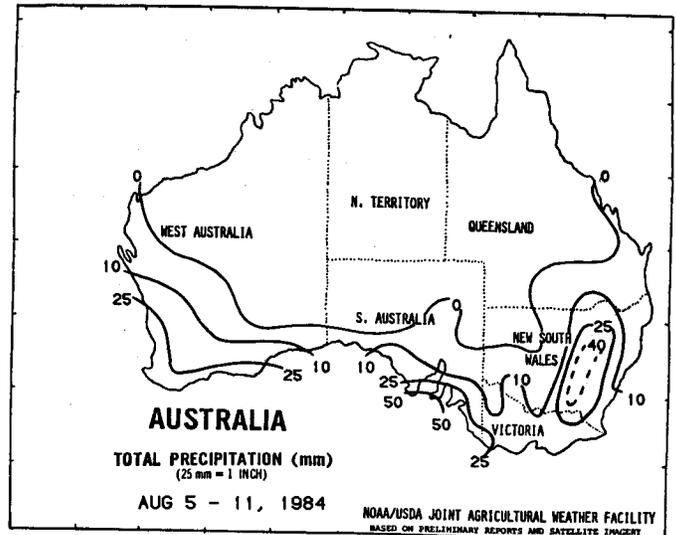


SOUTHEAST ASIA... Monsoon rain increased in parts of Indochina this week. Moderate precipitation (greater than 25 mm) covered eastern and northern Thailand, benefiting rice in the filling stage. July rainfall was below normal in the north and east, but most areas received more than 100 mm. The important south-central rice region accumulated normal July precipitation, favoring rice in the filling stage. Light to moderate showers fell in the area this week. Moderate rain improved conditions in central Thailand for corn in the filling stage, but interrupted some harvesting. Precipitation during the last half of July in the Philippines decreased, resulting in below-normal accumulations. Recent rain benefited corn and rice in the filling stages.



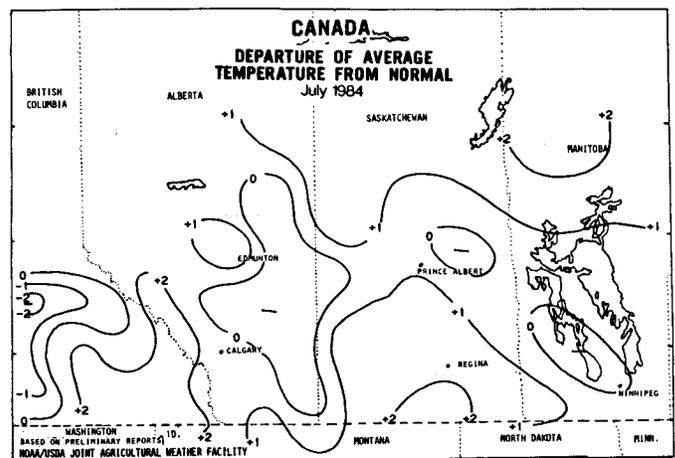
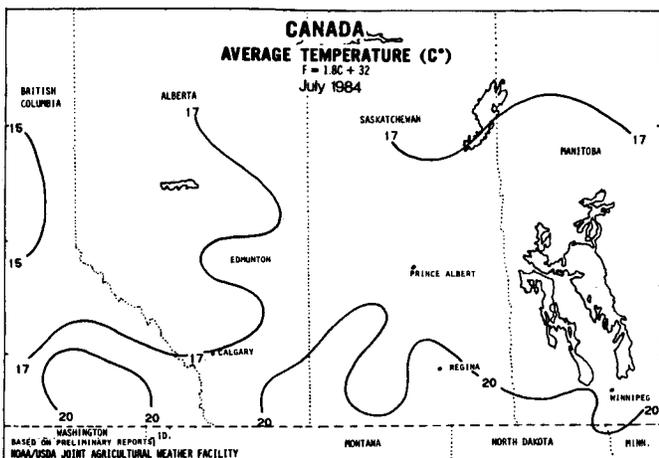
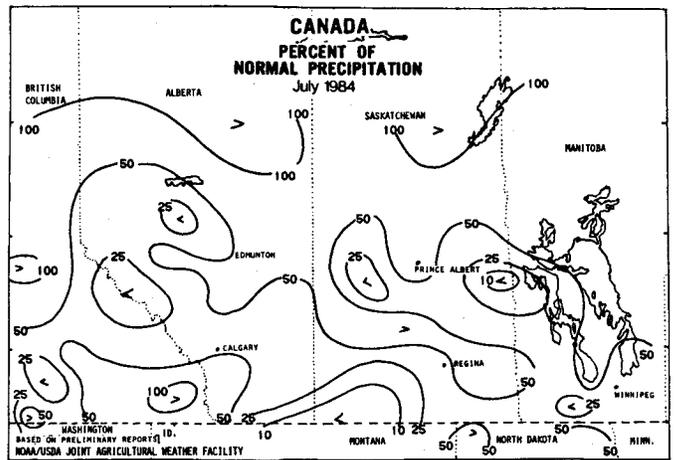
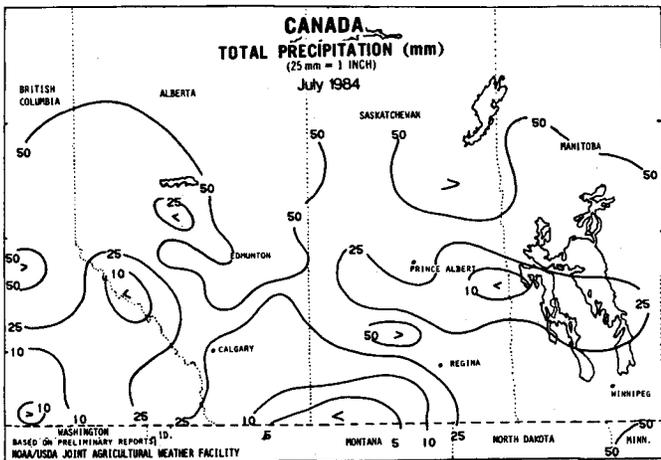
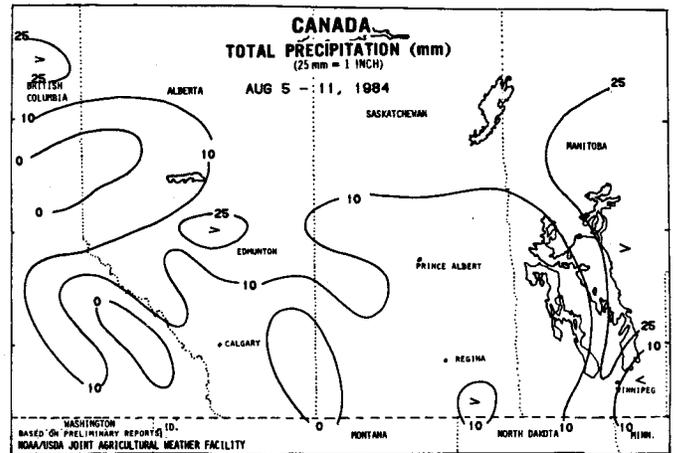
AUSTRALIA...Rain fell over most wheat areas during the week. Adequate topsoil moisture is available for the emergence of the recently sown wheat in eastern Australia. Above-average rain, falling during the latter half of July and ending the 3 month dry spell during the wheat planting season, allowed substantial very late planting/replanting in Victoria and New South Wales. These two states normally produce about half of the total wheat. Recent favorable temperatures stimulated the germination and emergence of wheat in these areas. Heavy rain in northern New South Wales and southeastern Queensland produced monthly totals in excess of 400 percent of normal, causing some flooding. Recent drier weather has improved conditions in this area. The wheat crop is in good condition in Western Australia. The substantial improvement in moisture, which allowed the very late planting, led USDA to increase its official yield estimate to 1.38 metric tons/hectare, a 10-percent increase in the yield potential from the previous month.*

*For current area and production estimates see the August 10, 1984, USDA World Crop Production Report.

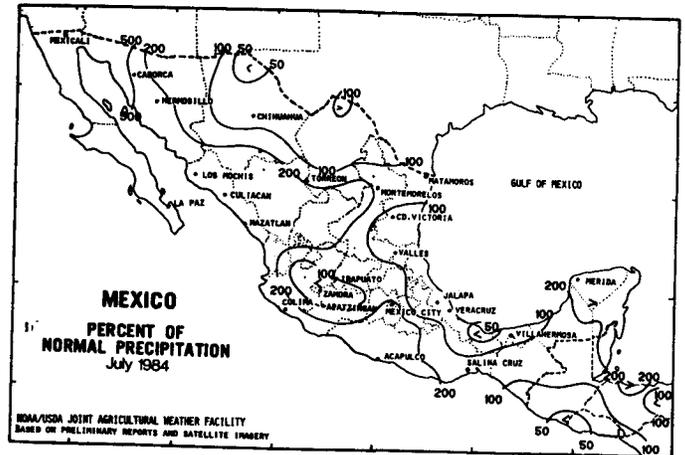


CANADA...Some light showers fell over the Prairie grain belt during the week. In the extreme eastern and northwestern portions, over 10 mm of rain fell. Warm and mostly dry weather hastened ripening as the spring wheat harvest began in the south. Unfavorable dryness, which has prevailed over southern grain areas of Saskatchewan and Alberta during most of the growing season, expanded to cover the entire grain belt during July. Monthly rainfall was less than 50 percent of normal over most grain and oilseed areas. Persistent dryness and recent hot weather severely stressed crops in the grain-filling and podding stages with deterioration most pronounced in southern crop areas. Crops in northern crop areas have also suffered from recent hot, dry weather. USDA's latest official wheat estimate of 1.55 metric tons/hectare represents a 20-percent decrease from last month because of the untimely hot, dry weather.*

*For current area and production estimates see the August 10, 1984, USDA World Crop Production Report.



MEXICO...Tropical weather moving westward off the southwestern coast triggered heavy July rains along the coast and inland to the mountains. The western part of the southern Plateau corn belt had the least rain, but the near 200 mm of rain should have been adequate for corn. Timely rain fell this week. Most of the east coast recorded less than normal rain. A small area along the Bay of Campeche, south of Vera Cruz, had less than half its normal amount of rain. Showers were frequent in parts of the Northeast where citrus and grain sorghum is grown. A few showers fell in the northern rangelands, but they were still too dry.



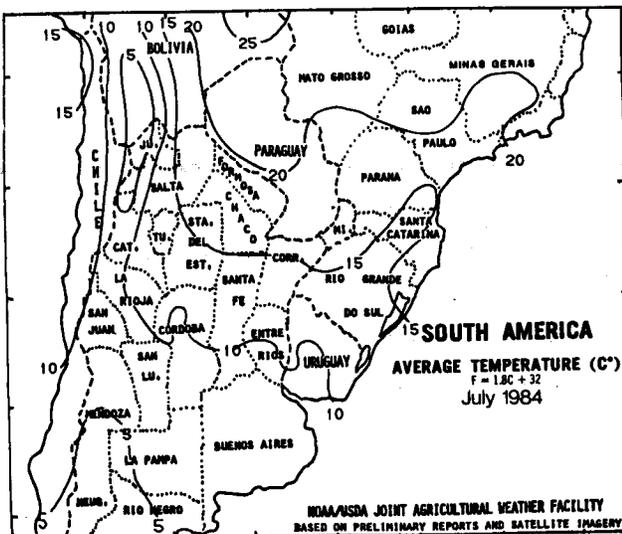
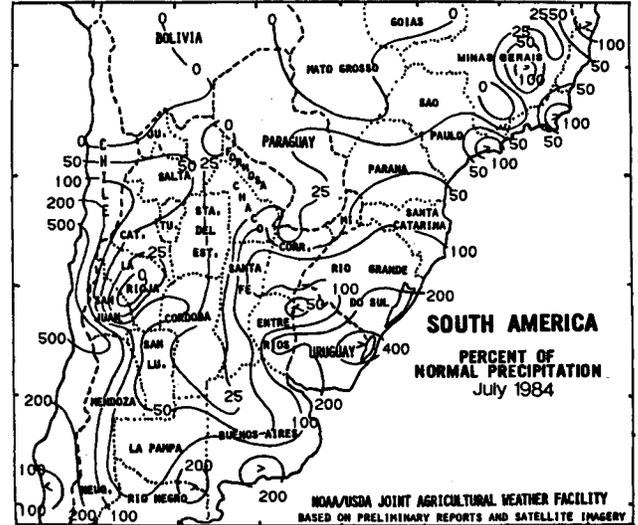
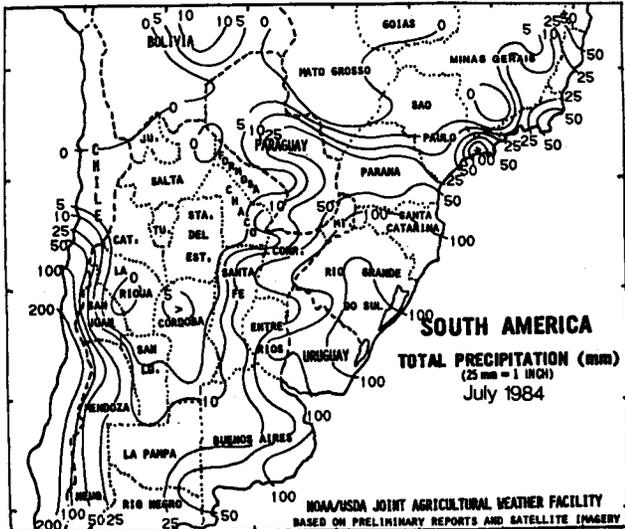
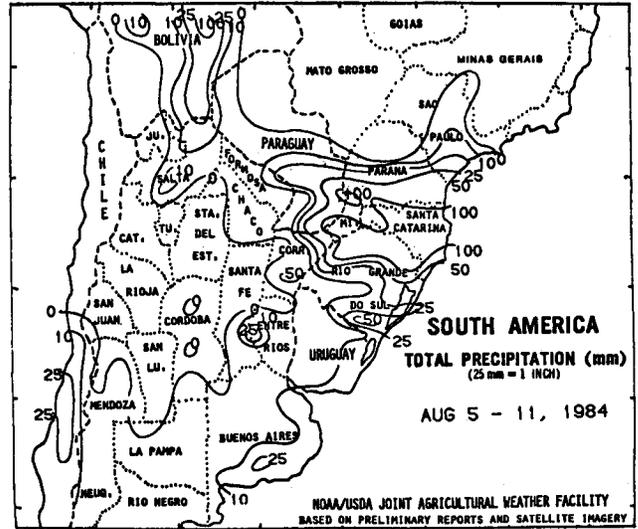
(continued from p. 10)

Marketing of cattle dropped slightly because of the minor improvement of pastures in some Texas areas. Livestock were in fair to poor condition in Texas, but were in fair to mostly good condition elsewhere in the Nation. Stock water supplies continued to be critically short in many areas of Texas.

(continued from p. 18)

complete. Corn: 90% tasseled, 65% silked. Dry beans, 85% setting pods. Potatoes, 95% in bloom. Hail damage none to light.

SOUTH AMERICA... Unfavorably dry weather has persisted over Argentina's western wheat area, causing planting delays and limiting the moisture supplies for the upcoming growing season of emerged winter wheat. July rainfall was less than 25 percent of normal over Cordoba and extreme northwestern Buenos Aires, and less than 50 percent of normal over much of the remainder of Argentina's wheat/soybean area. The wheat planting season is virtually over in this area. In contrast, monthly rainfall averaged 150-200 percent of normal in southern wheat areas where some planting is still underway. While heavy rains continued over Uruguay and southern Brazil during July, amounts slackened somewhat from the previous 2 months. Heavy rain fell again this week over northern Rio Grande do Sul, Santa Catarina, and southern Parana. Recent moisture in Parana may have benefited wheat in the grain filling stage, but drier weather is needed for the early maturing crop. Mostly dry weather prevailed during July and early August in the coffee/citrus areas of Sao Paulo and surrounding states where rainfall has been below average during 6 of the past 7 months.



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August Crop Production Highlights

ALL WHEAT production forecast at 2.53 billion bushels, 4 percent more than 1983. The 90 percent confidence interval for this production forecast is 2.45 to 2.61 billion bushels. Winter wheat production is placed at 2.05 billion bushels, up 3 percent from 1983. Other spring wheat production is forecast at 386 million bushels, up 8 percent. Durum wheat is forecast at 97.1 million bushels, up 33 percent from the 1983 crop.

FOOD GRAIN production (wheat, rice, rye) is expected to total 75.7 million metric tons in 1984, up 7 percent from a year ago.

CORN FOR GRAIN production is forecast at 7.67 billion bushels, 84 percent above last year's drought-stricken crop. The 90 percent confidence interval for this production forecast is 6.50 to 8.83 billion bushels.

FEED GRAIN production (corn, sorghum, oats, and barley) is expected to total 235 million metric tons, up 73 percent from a year earlier.

SOYBEAN production forecast at 2.04 billion bushels, 30 percent larger than 1983 but 7 percent

smaller than 1982. The 90 percent confidence interval for production forecast is 1.81 to 2.26 billion bushels.

HAY production is forecast at a record high 153 million tons, up 9 percent from 1983 and 3 percent above the previous record production set in 1982. Pasture and range feed condition on August 1 averaged 75 percent, 1 point below a year ago.

ALL COTTON production forecast at 12.6 million bales, 62 percent above 1983 production. The 90 percent confidence interval for this production forecast is 10.7 million to 14.5 million bales.

ALL TOBACCO production is forecast at 1.68 billion pounds, 18 percent above the 1.43 billion pounds (648 thousand metric tons) produced in 1983.

PEANUT production is estimated at a record high 4.25 billion pounds, 29 percent above last year.

NUMBER OF FARMS in the U.S. in 1984 is estimated at 2.33 million, down 2 percent from 1983. Land in farms declined 4.69 million acres from 1983. Average size of farms increased from 432 last year to 437 acres in 1984.

The Weekly Weather and Crop Bulletin (ISSN 0043-1974) is published weekly and jointly prepared by the U.S. Department of Commerce, National Oceanic and Atmospheric Administration (NOAA) and the U.S. Department of Agriculture (USDA). Publication began in 1872 as the Weekly Chronicle. It is issued under general authority of the Act of January 12, 1895, (44-USC 213), 53d Congress, 3d Session. NOAA is responsible for managing, printing, and distributing the bulletin. The contents may be reprinted freely, with proper credit.

Annual subscriptions: domestic \$25, foreign \$33 (in U.S. funds by international money order or check drawn on U.S. bank) payable to U.S. Department of Commerce, NOAA. POSTMASTER: Send address changes to NOAA/USDA, Joint Agricultural Weather Facility, USDA South Building, Room 5844, Washington, D.C. 20250. Order subscriptions from the office and address listed above. Second class postage paid at Washington, D.C., and additional mailing offices.

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Weather Service/Climate Analysis Center
Managing Editor Don Haddock
Meteorologists Lyle Denny,
Ray McInturff, Jim Williams, Wes Byrd,
Dave Elson, and Joe Harrison

Subscriptions (202) 447-7917 . . Cheryl Caleco
Elvia Fant

U.S. DEPARTMENT OF AGRICULTURE
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