

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

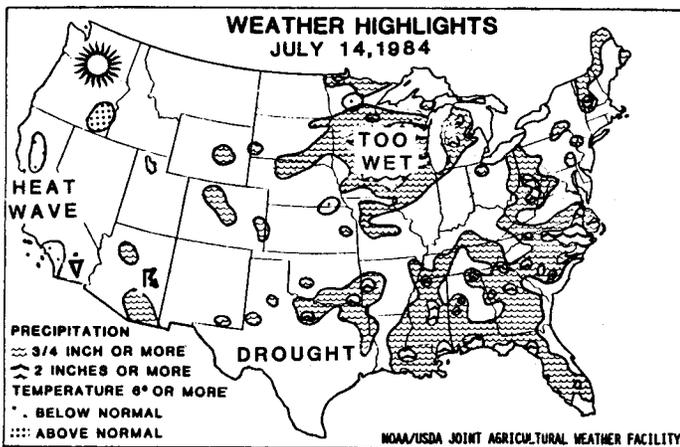
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July 17, 1984

National Weather Summary

July 8 to 14



TUESDAY...Cool weather continued in the East but warmer weather was pushing eastward. Afternoon temperatures were above 90 degrees through most of the Midwest. Showers and thunderstorms reached from the central Plains through the Lakes and to the mid-Atlantic States. Unusually warm weather reached northward from California.

WEDNESDAY...Warm weather returned to the East, but cooler temperatures pushed through the Midwest. Showers and thunderstorms were scattered all the way from Arizona to the Southeast and throughout the northeastern quarter of the Nation.

THURSDAY...Temperatures moderated over the Northeast. Showers and thunderstorms continued from the Southwest, across the South, and up the east coast to the mid-Atlantic States. A few showers dotted the northern Plains. The heat wave continued in the Southwest and California.

FRIDAY...High temperatures reached to well over 100 degrees through most of California, and were in the middle to high nineties through the Plains. Showers and thunderstorms with some severe weather covered the Southeast, and tropical moisture triggered showers through the Southwest and to the central Rockies.

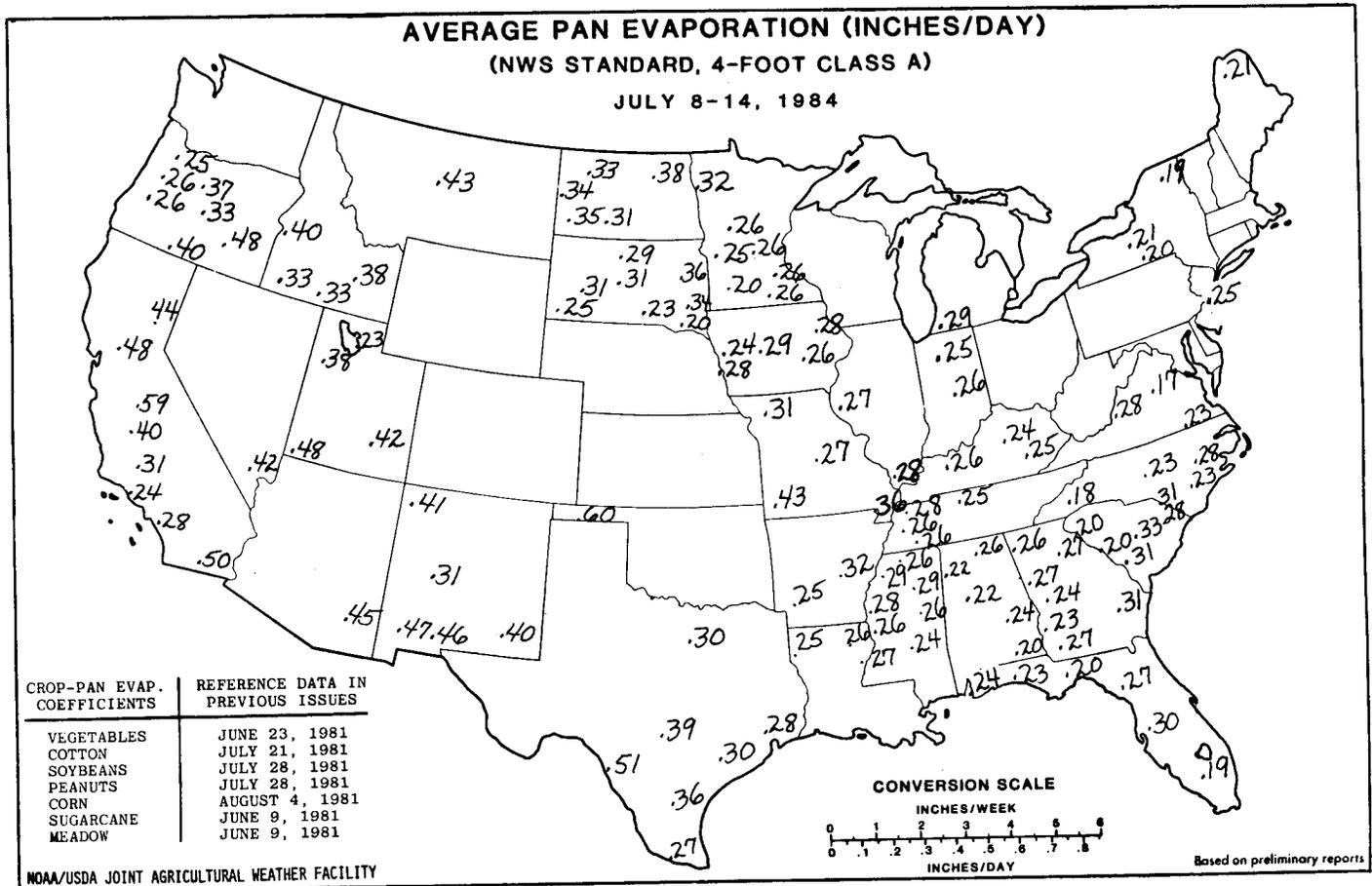
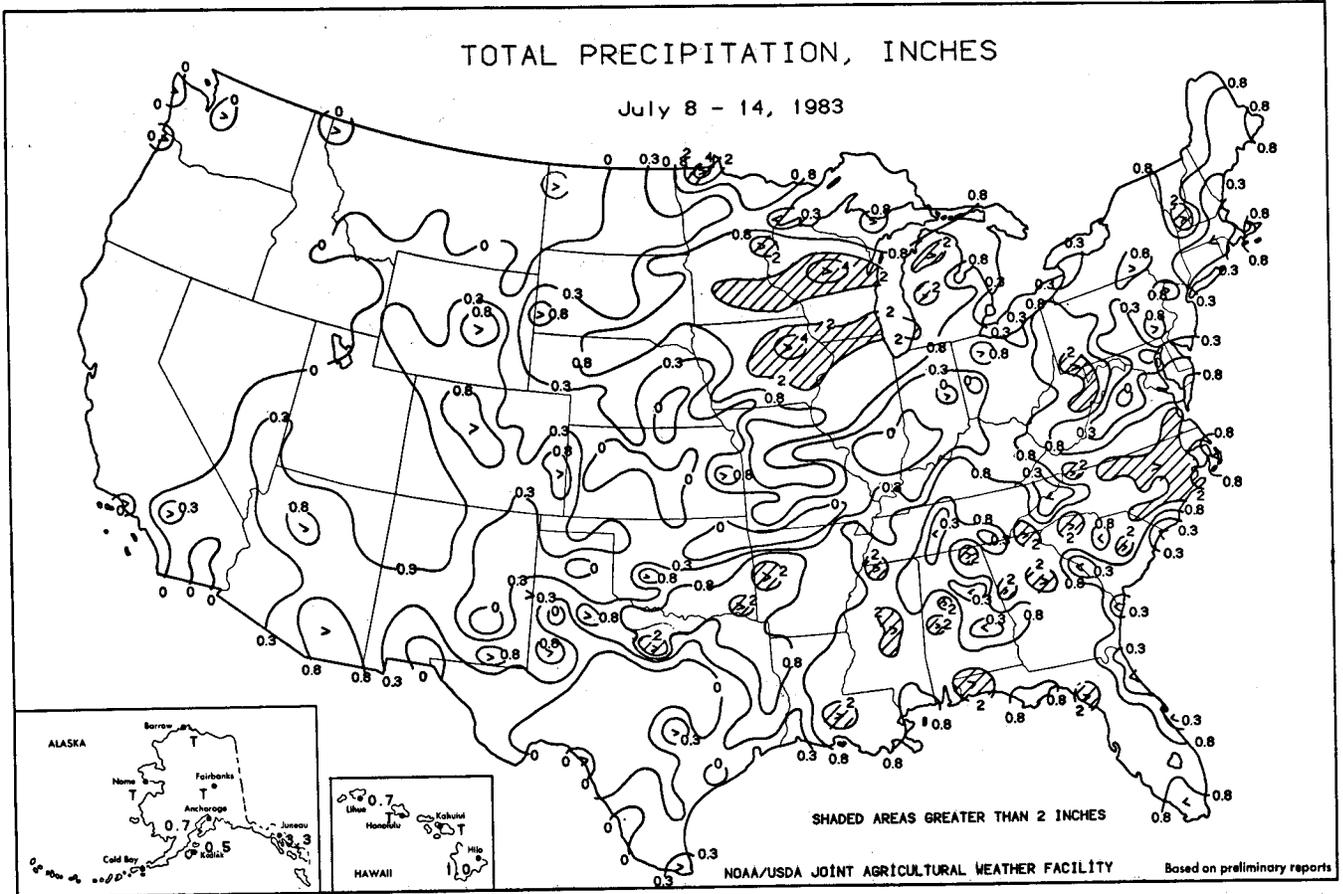
SATURDAY...The heat wave in the West spread northward through Washington. It was somewhat cooler in the northern Plains, but temperature readings in the nineties spread into the Midwest while they exceeded 100 degrees in the central and southern Plains. Thunderstorms produced heavy rain from central Illinois through eastern Iowa. Showers were scattered in the Southeast and Southwest.

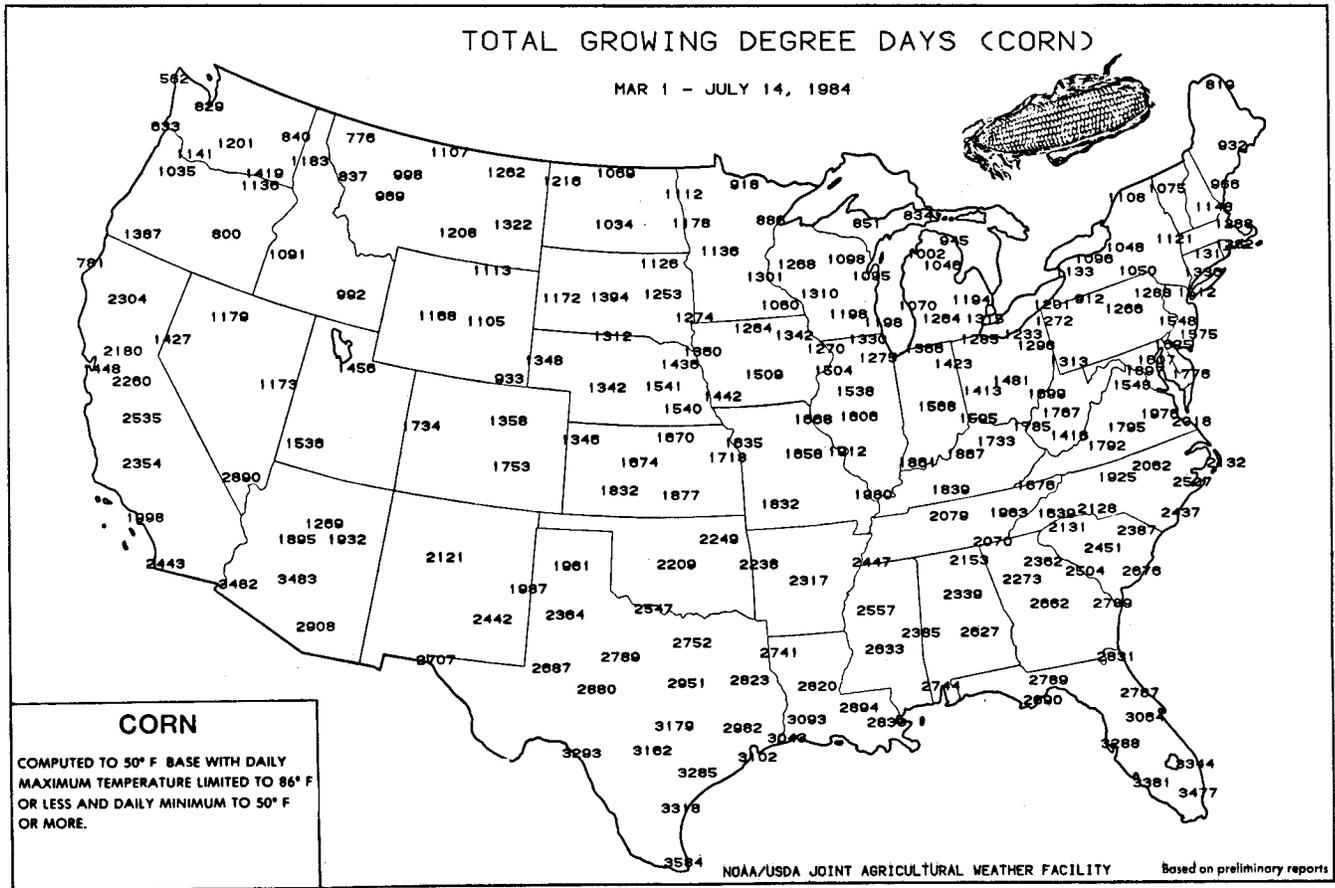
HIGHLIGHTS: Showers and thunderstorms were widespread east of the Plains, more scattered through the Plains and Southwest, and nonexistent in the northern two-thirds of California and Nevada, and the Pacific Northwest. Some beneficial showers fell in the dry parts of northern Texas, but the large drought-stricken area of central Texas remained dry. Very heavy rain and severe weather did some damage in parts of Iowa, Minnesota, and Wisconsin. Temperatures were cooler than normal in most of the East and warmer than normal through most of the Plains and in California.

SUNDAY...Heavy rain was scarce over the Nation. Light showers and thunderstorms formed over the central Rockies and extended to the western Great Lakes region. Some severe isolated weather hit in the Plains area. Isolated showers also fell in southern California, the southern Plateau, and the lower Mississippi Valley. It was unusually cool in the Northeast and from the central Great Lakes into Kentucky, but afternoon temperatures soared in the Southwest and the southern and central Plains.

MONDAY...Showers and thunderstorms were heavier from the central Rockies through the northern Plains, the Great Lakes, and to the upper Ohio Valley. Severe weather struck in several places in Minnesota. Light showers continued in the Southwest, along the gulf coast, and in southern New England. It was cool in the East, but afternoon temperatures were hot in the southern and central Plains, and in the western Corn Belt.

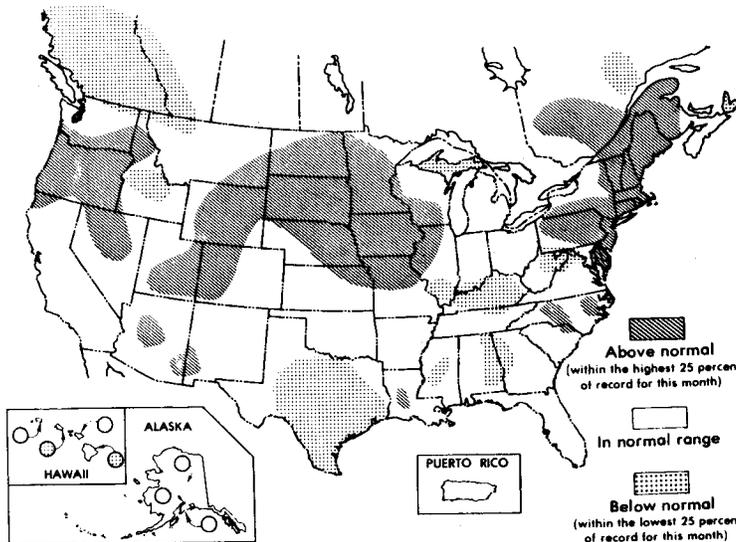
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STREAMFLOW DURING JUNE

U.S. Geological Survey



Flows of the Nation's key index gaging streams were at average to well-above average levels for June across much of the country, according to a regular check on the condition of the Nation's water resources by the U.S. Geological Survey (USGS), Department of Interior.

USGS hydrologists said that of the 170 key index gaging stations nationwide, flows at 66 sites (39 percent) were well-above average for June, 85 sites (50 percent) were in the normal range, and only 19 sites (11 percent) were well-below average.

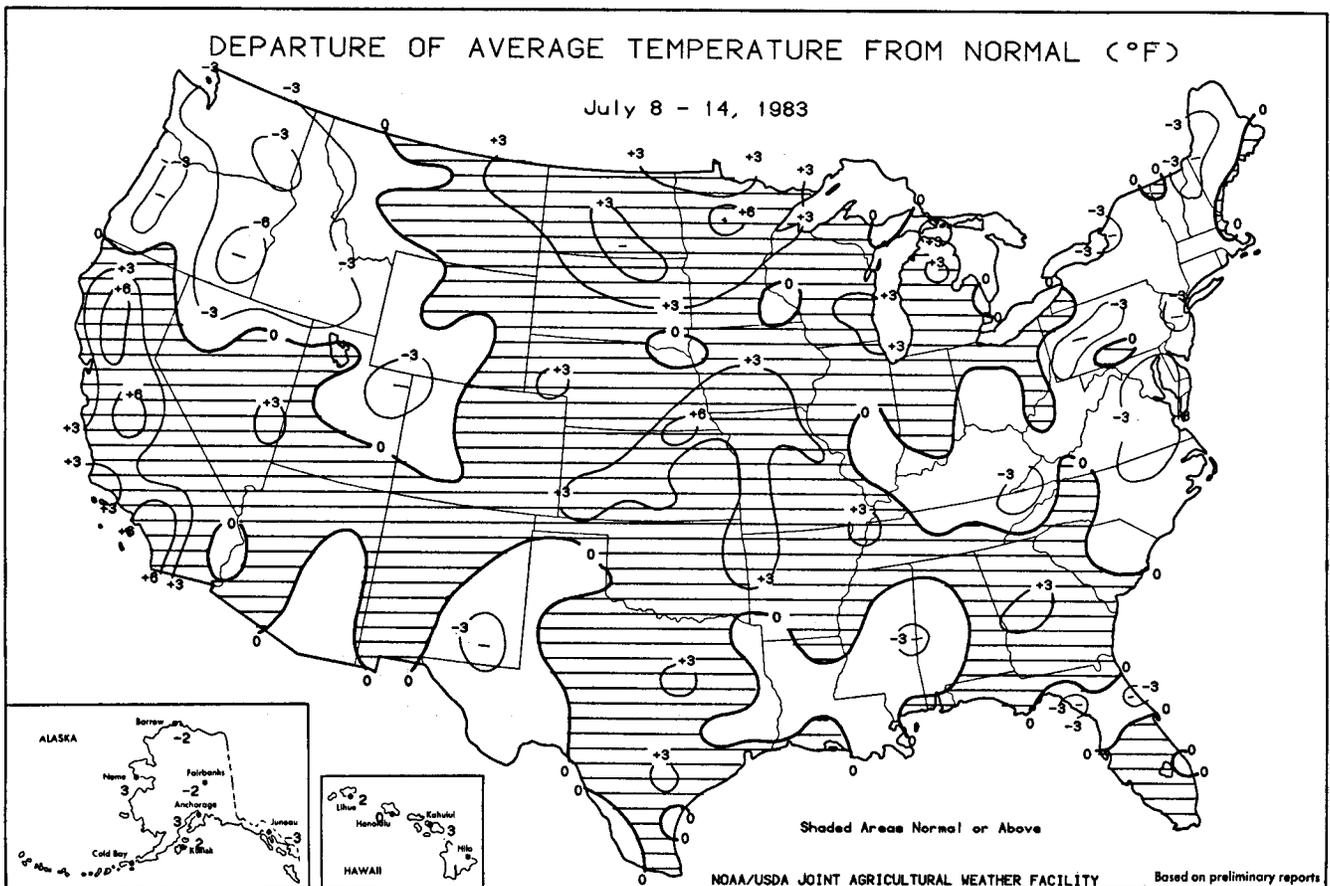
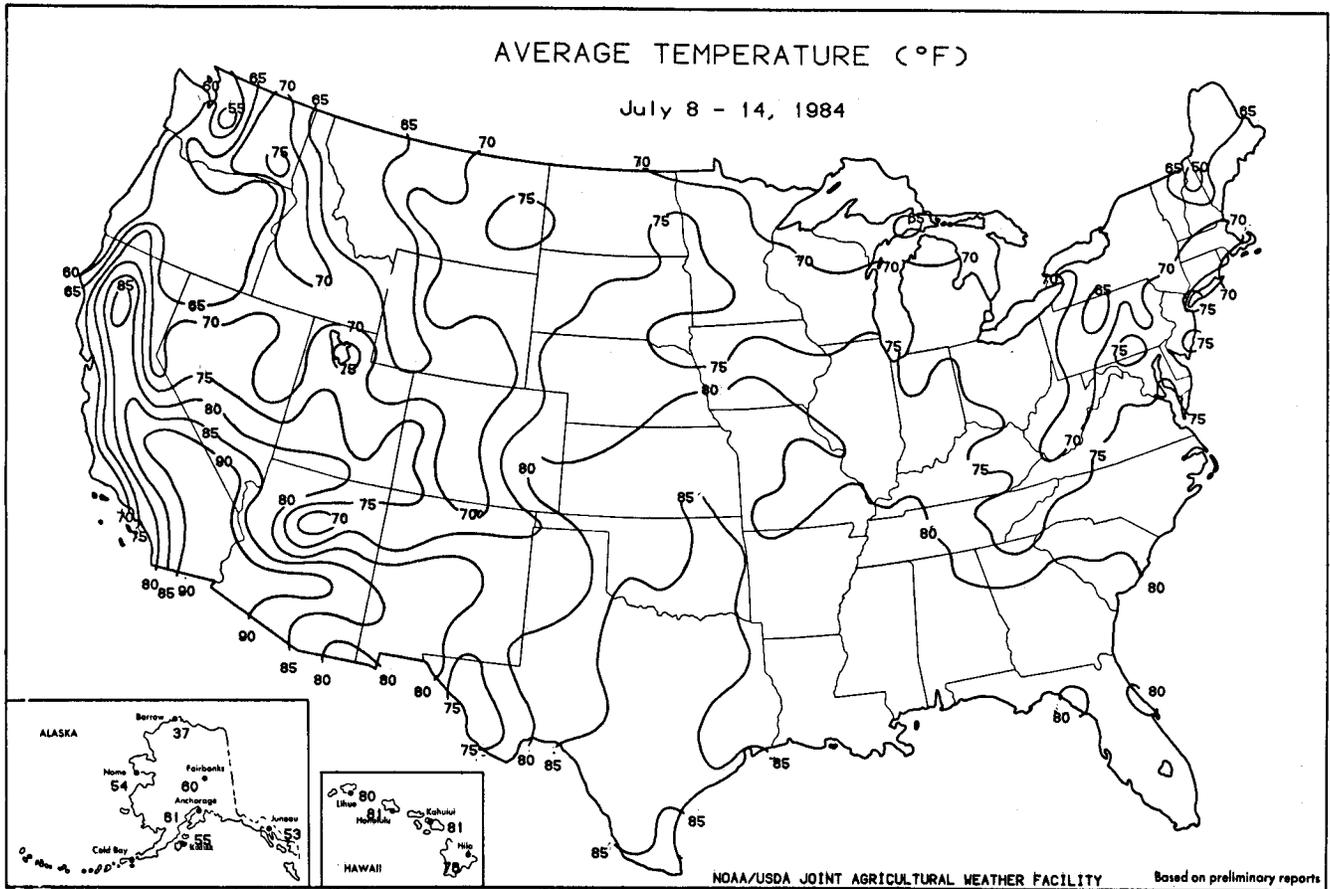
Although most of the northern United States experienced a wet June, low flow persisted in Texas and dry conditions developed in much of the Southeast and in the Ohio River valley.

Reflecting overall conditions in June, the combined average flow of the Nation's three major rivers was 1,164 billion gallons per day (bgd), 38 percent above the seasonal average. The Mississippi, St. Lawrence, and Columbia Rivers drain more than half of the lower 48 States and their flows provide a convenient check on the status of the Nation's water resources.

Record-high monthly average flows for June occurred in Iowa, Kansas, Minnesota, Nebraska, and Nevada. The Humboldt River at Palisade, Nev., for example, set a record for June of almost 3 bgd, the highest flow in 77 years of record. The Humboldt River has been in the above-normal range--within the highest 25 percent of historic record--for 24 straight months.

Record-low or near-record low flows were recorded in Hawaii, Idaho, Louisiana, and Texas. Extremely dry conditions prevailed in parts of Texas, with zero average flow of the North Concho River near Carlsbad--the lowest in 37 years of record. Barely 200,000 gallons per day of flow were recorded on the North Bosque River near Clifton, Tex., the lowest June flow in 61 years of record.

Flows of five of the Nation's largest rivers for June: Mississippi River at Vicksburg, Miss., 598 bgd, 69 percent above average, despite a 36 percent decline from the average May flow; the Columbia River at The Dalles, Ore., 365 bgd, 17 percent above the long-term average for June and up 64 percent over last month; the St. Lawrence River near Massena, N.Y., 200 bgd, 10 percent above average, about the same flow as May; the Missouri River near Hermann, Mo., 137 bgd, 146 percent above average and up 3 percent from May; and the Ohio River at Louisville, Ky., 53 bgd, 31 percent above the June average, although flow declined by 63 percent from May.



Weather Data for the Week Ending JULY 14, 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	PRECIPITATION	
																		.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	90	69	95	65	80	0	.3	-1.0	.2	4.3	74	28.5	91	90	52	4	0	3	0
MOBILE	91	70	94	68	81	-1	1.1	-1.7	.6	3.4	41	26.0	79	89	50	6	0	3	1
MONTGOMERY	93	71	97	69	82	0	.1	-1.0	.1	4.1	76	26.5	96	94	51	6	0	1	0
AK ANCHORAGE	67	55	73	51	61	3	.7	-.3	.3	2.4	133	6.5	141	70	44	0	0	6	0
BARROW	40	34	43	31	37	-2	.2	-.2	.2	.2	33	1.0	63	96	78	0	1	1	0
FAIRBANKS	70	50	78	46	60	-2	.1	-.2	.2	.8	38	4.2	100	92	45	0	0	3	0
JUNEAU	57	50	62	47	53	-3	3.3	-2.4	1.0	6.3	140	26.8	176	100	81	0	0	7	3
KODIAK	60	50	65	42	55	2	.5	-.3	.3	5.7	130	42.5	120	90	68	0	0	5	0
NOME	63	44	71	38	54	3	.2	-.5	.2	1.9	95	4.3	88	84	52	0	0	1	0
AZ PHOENIX	103	81	108	75	92	0	.1	0	.1	.5	100	1.9	73	65	28	7	0	3	0
PRESCOTT	86	63	90	60	74	1	.4	-.2	.2	1.2	67	1.5	70	66	30	1	0	4	0
TUCSON	98	72	102	69	85	-2	.8	-.2	.4	2.1	162	3.1	97	76	28	7	0	5	0
YUMA	104	83	109	80	94	0	.3	-.3	.3	.3	+100	1.2	92	69	31	7	0	1	0
AR FORT SMITH	96	73	99	70	85	3	2.4	1.7	2.3	4.4	90	18.7	86	93	43	7	0	2	1
LITTLE ROCK	94	72	98	70	83	1	.6	-.2	.3	2.2	49	24.3	91	91	53	4	0	2	0
CA BAKERSFIELD	104	70	108	64	87	2	0	0	0	0	+100	1.2	29	46	16	7	0	0	0
EUREKA	63	51	65	48	57	1	0	0	0	.6	120	16.6	74	91	73	0	0	0	0
FRESNO	106	71	109	65	88	7	0	0	0	.2	+100	2.0	29	53	13	7	0	0	0
LOS ANGELES	77	64	85	62	70	1	0	0	0	0	+100	1.7	70	89	56	0	0	0	0
RED BLUFF	105	71	111	67	88	5	0	0	0	.1	20	4.2	32	49	14	7	0	0	0
SACRAMENTO	100	64	105	59	82	6	0	0	0	.1	100	3.0	78	67	17	7	0	0	0
SAN DIEGO	84	73	86	71	79	9	.2	0	.2	0	+100	1.2	19	87	60	0	0	0	0
SAN FRANCISCO	77	54	91	50	66	3	0	0	0	0	0	4.0	31	85	44	1	0	0	0
CO DENVER	89	60	93	58	75	1	.1	-.4	.1	1.2	50	6.7	75	67	20	3	0	2	0
GRAND JUNCTION	90	63	96	60	77	-2	.2	-.1	.1	1.8	300	5.5	140	75	25	5	0	3	0
PUEBLO	95	61	99	56	78	1	.7	-.2	.4	1.3	72	5.0	89	75	21	6	0	3	0
CT BRIDGEPORT	84	64	93	59	74	0	.2	-.7	.2	5.1	174	27.8	132	80	46	2	0	1	0
HARTFORD	83	59	93	53	71	-2	.2	-.6	.2	3.7	82	30.9	136	93	43	1	0	1	0
DC WASHINGTON	85	67	93	58	76	-3	.2	-.2	.1	4.0	80	22.7	117	84	68	1	0	2	0
FL APALACHICOLA	90	72	92	70	81	0	.4	-1.2	.3	5.0	63	29.3	123	88	60	4	0	3	0
DAYTONA BEACH	88	68	90	65	78	-3	.2	-1.2	.2	5.4	64	22.0	104	89	58	2	0	1	0
JACKSONVILLE	92	71	93	70	81	0	.4	-1.1	.3	6.2	77	23.3	90	95	53	7	0	2	0
KEY WEST	87	78	89	76	83	-1	.7	-.2	.4	8.6	130	25.1	155	82	62	0	0	3	0
MIAMI	89	75	90	73	82	0	1.0	-.3	.6	10.7	96	33.4	128	93	60	2	0	4	1
ORLANDO	91	73	93	71	82	0	1.4	-.4	1.2	7.8	73	22.0	100	99	55	7	0	3	1
TALLAHASSEE	94	71	95	70	82	1	.9	-1.2	.5	7.7	74	38.9	116	100	54	7	0	4	0
TAMPA	90	75	93	73	82	0	1.5	-.2	.5	6.5	78	17.4	84	90	58	3	0	4	1
WEST PALM BEACH	88	74	89	73	81	-1	1.6	-.1	1.2	9.1	88	36.0	125	98	65	0	0	3	1
GA ATLANTA	89	71	94	66	80	1	1.0	-.2	.8	3.9	71	33.6	110	88	49	3	0	2	1
AUGUSTA	93	71	97	67	82	1	.1	-.9	.1	3.3	59	31.7	127	86	46	6	0	1	0
MACON	93	72	95	69	82	1	.9	-.1	.6	4.4	79	27.3	103	95	54	7	0	4	1
SAVANNAH	93	71	96	69	82	1	.3	-1.4	.3	2.7	31	29.1	114	89	46	6	0	1	0
HI HILLO	82	69	83	65	76	1	1.0	-.9	.3	5.9	64	47.9	71	87	60	0	0	5	0
HONOLULU	87	73	90	68	80	0	.2	-.1	.2	0	0	4.8	36	83	50	1	0	1	0
KAHULUI	90	72	92	65	81	3	.2	0	.2	0	0	5.4	63	67	50	4	0	2	0
LIHUE	85	75	86	72	80	2	.7	-.2	.6	1.5	68	9.4	41	81	58	0	2	1	0
TD ROISE	87	52	98	48	70	-5	0	-.1	0	1.4	140	7.3	99	56	15	1	0	0	0
LEWISTON	88	54	92	49	71	-3	0	-.1	0	1.6	100	6.9	95	59	19	3	0	0	0
POCATELLO	87	50	91	45	68	-3	.2	-.1	.2	1.3	108	7.4	114	64	17	1	0	0	0
IL CHICAGO	89	62	99	48	76	2	1.1	-.2	.9	3.2	57	17.3	98	89	40	4	0	2	1
MOLINE	90	66	99	55	78	3	2.0	-.9	1.2	6.4	100	20.9	107	89	46	3	0	4	2
PEORIA	88	66	97	59	77	2	1.4	-.5	.7	5.5	100	22.4	120	95	50	3	0	4	1
QUINCY	91	68	97	63	79	2	.8	-.2	.6	5.2	90	21.3	110	87	46	4	0	3	1
ROCKFORD	87	63	94	51	75	2	2.3	1.3	2.2	6.3	98	17.3	91	94	50	2	0	2	1
SPRINGFIELD	90	68	97	58	79	2	1.0	-.1	.9	4.1	79	22.5	122	83	42	4	0	2	1
IN EVANSVILLE	90	65	94	54	77	-1	0	-.9	0	4.7	96	24.1	103	84	42	4	0	0	0
FORT WAYNE	88	61	95	48	75	2	.4	-.4	.3	2.3	46	16.5	89	89	43	4	0	2	0
INDIANAPOLIS	87	63	93	51	75	0	.1	-.9	.1	3.2	55	18.8	89	97	50	2	0	1	0
SOUTH BEND	85	63	94	47	74	2	1.0	-.2	.7	4.6	82	17.3	88	80	41	1	0	3	1
IA DES MOINES	93	68	100	62	80	5	2.9	2.2	2.7	11.3	213	26.8	161	82	42	6	0	3	1
STOUX CITY	86	63	92	57	75	-1	.5	-.3	.2	7.8	142	23.3	169	91	56	1	0	4	0
WATERLOO	87	63	91	56	75	3	4.5	3.4	1.4	9.0	148	21.5	124	90	49	2	0	4	4
KS CONCORDIA	98	72	106	61	85	6	.2	-.8	.2	4.0	73	18.1	125	75	28	6	0	0	0
DODGE CITY	98	70	104	64	84	4	.2	-.7	.2	2.1	50	11.7	99	65	25	7	0	1	0
GOODLAND	91	62	96	54	76	0	.4	-.2	.2	4.5	115	13.6	140	87	30	5	0	2	0
TOPKA	94	69	98	60	81	3	.1	-.8	.1	10.7	160	24.4	144	87	44	6	0	1	0
WICHITA	100	71	106	63	86	4	.2	-.8	.2	2.3	42	16.4	110	77	23	6	0	0	0
KY BOWLING GREEN	88	63	94	54	76	-2	.8	-.2	.8	4.7	76	33.9	121	95	45	3	0	1	1
LEXINGTON	85	63	90	50	74	-2	.2	-.9	.2	5.0	82	24.6	96	87	65	1	0	1	0
LOUISVILLE	88	67	94	54	78	0	.1	-.9	.1	6.1	115	25.0	102	77	44	3	0	1	0
LA ALEXANDRIA	90	73	92	71	81	-2	2.0	-.9	1.0	8.8	149	36.2	112	91	55	5	0	6	1
BATON ROUGE	90	72	94	69	81	-2	2.0	-.3	1.1	5.4	89	21.5	73	85	52	5	0	3	2
LAF CHARLES	89	74	90	73	82	-1	.1	-1.2	.2	6.3	98	28.2	108	99	61	3	0	2	0
NEW ORLEANS	89	71	91	70	80	-2	1.2	-.4	1.0	9.2	126	28.8	93	92	58	1	0	3	1

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

Weather Data for the Week Ending JULY 14, 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		PRECIPITATION		
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE	
ME SURVEY PORT	93	72	96	68	82	-1	1.0	.1	.8	4.8	96	24.2	96	97	54	6	0	0	1	1
ME CARIBOU	73	56	78	52	64	-1	1.1	.2	.7	7.1	145	22.6	135	88	57	0	0	1	1	
ME PORTLAND	78	58	90	55	68	0	.2	.4	.3	5.1	121	33.8	159	95	50	1	0	0	0	0
MD BALTIMORE	85	63	94	54	74	-3	T	.8	T	2.7	53	21.5	101	82	43	2	0	0	0	0
MD SALISBURY	84	63	94	55	74	-3	.5	.4	.4	6.3	124	30.9	139	105	60	2	0	0	0	0
MA BOSTON	84	64	96	58	74	1	.6	0	.6	3.2	84	35.0	154	87	44	3	0	2	1	1
MA CHATHAM	75	58	72	52	66	-1	1.5	.9	1.5	6.9	182	31.6	133	-	-	0	0	1	1	1
MI ALPENA	82	54	90	38	68	2	1.3	.6	.8	4.1	91	13.0	88	97	46	1	0	3	1	1
MI DETROIT	86	59	93	45	73	1	.1	.6	.1	1.0	21	13.0	78	86	38	4	0	2	0	0
MI FLINT	84	60	90	45	72	2	.9	.3	.5	2.0	45	12.6	83	92	43	1	0	3	1	1
MI GRAND RAPIDS	85	60	90	46	73	1	1.2	.6	1.0	2.5	48	14.2	82	97	46	1	0	3	1	1
MI HOUGHTON LAKE	80	60	85	41	70	3	3.9	3.2	3.6	5.9	137	14.9	107	86	48	0	0	2	1	1
MI LANSING	84	59	90	42	72	1	1.6	.9	1.3	7.2	48	12.8	84	94	44	1	0	3	1	1
MI MARQUETTE	80	53	84	40	67	2	.7	0	.6	3.9	76	16.2	85	96	51	0	0	3	1	1
MI MUSKEGON	80	60	85	45	70	0	1.2	.7	.9	3.7	103	15.7	99	92	49	0	0	3	1	1
MI SAINT STE. MARIE	79	52	83	41	65	2	.4	.3	.3	4.5	98	13.1	85	96	60	0	2	0	0	0
MN ALXANDRIA	85	63	90	61	74	4	.9	.2	.9	8.4	158	16.4	126	91	44	2	0	1	1	1
MN DULUTH	81	57	89	54	69	4	.2	.7	.2	6.2	113	12.6	88	85	45	0	0	2	0	0
MN INT'L FALLS	81	56	84	53	68	2	1.4	.5	.7	8.5	157	12.3	108	93	47	0	0	4	1	1
MN MINNEAPOLIS	84	63	90	56	74	1	1.4	.6	1.2	9.1	165	19.0	141	89	46	1	0	3	1	1
MN ROCHESTER	81	58	87	54	70	-1	2.4	1.5	1.4	6.4	116	16.2	114	91	56	0	0	3	2	2
MS GREENWOOD	92	72	95	68	82	0	1.2	.1	.6	2.7	52	26.3	85	94	51	6	0	2	2	2
MS JACKSON	92	71	98	68	82	0	1.9	.9	1.4	5.2	111	27.0	89	95	49	5	0	2	2	2
MS MERIDIAN	89	68	92	65	78	-3	1.2	0	1.2	6.1	105	28.4	92	95	54	4	0	2	1	1
MO CAPE GIRARDEAU	91	69	96	64	80	-1	.1	.8	.1	2.2	44	19.3	78	92	47	5	0	1	0	0
MO COLUMBIA	90	67	95	61	79	1	.2	.5	.2	17.2	230	31.0	153	92	54	5	0	1	0	0
MO KANSAS CITY	91	69	97	60	80	2	.1	.3	.1	8.2	128	23.8	133	75	60	0	0	1	0	0
MO SAINT LOUIS	92	72	100	66	82	3	.1	.8	.1	3.3	63	24.3	126	83	44	0	2	0	0	0
MO SPRINGFIELD	91	69	96	62	80	2	.3	.5	.3	5.6	92	22.5	105	84	50	0	1	0	0	0
MT BILLINGS	88	60	95	55	74	2	T	.2	T	1.7	74	6.3	68	57	19	2	0	0	0	0
MT GLASGOW	90	58	99	54	74	4	T	.4	T	1.9	61	4.1	61	49	15	2	0	0	0	0
MT GREAT FALLS	86	48	94	43	67	-2	T	.2	T	2.5	83	7.3	74	56	13	2	0	0	0	0
MT HAVPE	86	51	93	46	69	-1	0	.3	0	.6	23	3.3	50	53	16	2	0	0	0	0
MT HELENA	86	52	92	46	69	1	0	.2	0	2.3	96	5.6	82	49	15	2	0	0	0	0
MT KALISPELL	82	44	89	38	63	-2	0	.2	0	1.7	71	7.5	84	88	21	0	0	0	0	0
MT MILLS CITY	92	60	99	57	76	2	T	.4	T	3.7	109	5.9	69	55	17	5	0	0	0	0
MT MISSOIA	85	44	94	37	64	-3	0	.2	0	1.4	64	8.2	101	78	19	1	0	0	0	0
NE GRAND ISLAND	90	66	96	61	78	2	T	.6	T	5.7	121	24.3	176	80	41	3	0	1	0	0
NE LINCOLN	95	67	101	61	81	3	T	.7	T	6.1	124	26.4	175	80	34	6	0	0	0	0
NE NORFOLK	88	65	95	58	76	0	.2	.5	.1	6.1	107	23.0	165	86	49	3	0	4	0	0
NE NORTH PLATTE	90	60	96	51	75	1	.2	.5	.2	5.2	104	15.5	130	72	31	4	0	1	0	0
NE OMAHA	91	67	99	61	79	3	T	.8	T	7.3	133	23.1	145	82	46	4	0	1	0	0
NE SCOTT'S BLUFF	91	59	97	52	75	1	.7	.2	.5	2.1	55	9.7	102	80	23	4	0	3	0	0
NE VALENTINE	89	63	98	54	76	1	1.8	1.2	1.0	4.9	123	11.7	117	66	35	3	0	4	2	2
NV FLY	90	49	94	39	70	2	.2	0	.2	.8	67	4.0	73	71	19	4	0	1	0	0
NV LAS VEGAS	102	80	109	76	91	1	T	.1	T	.3	150	.3	17	43	18	7	0	1	0	0
NV RENO	93	50	98	47	72	2	0	.1	0	.4	80	1.6	35	56	10	6	0	0	0	0
NV WINNEMUCCA	92	47	97	42	70	-3	0	.1	0	1.5	125	6.6	132	41	10	6	0	0	0	0
NH CONCORD	80	54	90	46	67	-2	.2	.4	.2	5.1	124	29.3	166	96	47	1	0	1	0	0
NJ ATLANTIC CITY	86	64	94	54	75	1	.4	.5	.4	3.4	81	27.1	128	84	42	3	0	1	0	0
NM ALBUQUERQUE	93	68	96	65	80	1	.2	.1	.2	1.4	156	3.0	111	61	21	7	0	3	0	0
NM CLOVIS	89	66	92	65	77	0	.7	0	.4	6.7	181	11.6	149	70	35	4	0	2	0	0
NM ROSWELL	92	67	96	65	79	-3	0	.3	0	4.0	286	7.0	212	70	27	5	0	0	0	0
NY ALBANY	80	57	89	50	69	-3	.4	.3	.4	4.6	102	24.2	134	96	53	0	0	1	0	0
NY BINGHAMTON	78	58	86	48	68	-1	1.4	.7	1.2	6.2	172	24.6	179	87	69	0	0	2	1	1
NY BUFFALO	81	61	88	47	71	0	.1	.5	.1	7.5	203	21.3	122	81	45	0	0	2	0	0
NY NEW YORK	82	66	91	60	74	-2	.2	.6	.2	10.0	222	35.6	164	83	48	1	0	1	0	0
NY ROCHESTER	80	58	88	47	69	-2	.3	.2	.2	2.7	75	18.1	115	91	50	0	0	2	0	0
NY SYRACUSE	80	56	88	48	68	-3	.4	.5	.4	4.6	90	19.2	97	96	59	0	0	1	0	0
NC ASHEVILLE	84	62	90	57	73	0	.2	.8	.1	5.0	83	28.9	112	100	62	1	0	2	0	1
NC CHARLOTTE	88	69	95	61	78	0	.9	0	.9	4.9	98	29.9	177	84	48	3	0	2	1	1
NC GREENSBORO	84	66	92	58	75	-2	2.8	1.9	1.3	6.9	121	30.0	133	87	54	1	0	5	2	2
NC HATTERAS	83	69	87	58	76	-2	.5	.7	.3	3.7	59	24.3	95	93	60	0	0	3	0	0
NC NEW BERN	88	70	92	63	79	0	3.6	2.1	2.5	7.1	90	33.8	130	83	56	3	0	4	3	3
NC RALFICH	85	65	94	53	75	-2	2.2	1.2	1.4	6.4	114	32.3	144	96	55	2	0	3	2	2
NC WILMINGTON	86	68	91	60	77	-3	.3	1.4	.2	3.0	34	24.6	94	96	56	3	0	2	0	0
ND BISMARCK	89	55	94	47	72	1	T	.5	T	3.5	90	9.8	110	89	26	3	0	0	0	0
ND FARGO	87	63	90	58	75	5	T	.8	T	5.6	122	10.9	108	80	34	2	0	2	0	0
ND GRAND FORKS	85	60	91	55	72	3	.6	.1	.5	7.8	186	12.3	135	87	48	2	0	2	1	1
ND WILLISTON	90	56	99	49	73	3	T	.4	T	2.3	68	5.9	76	73	16	3	0	0	0	0
OH AKRON-CANTON	83	62	91	51	73	1	.2	.8	.2	3.2	65	18.7	97	82	44	1	0	1	0	0
OH CINCINNATI	86	61	92	51	74	-2	.1	.9	.1	3.5	59	19.8	88	89	45	2	0	1	0	0
OH CLEVELAND	83	59	90	45	71	0	.1	.7	.1	5.5	110	22.6	119	89	43	1	0	2	0	0
OH COLUMBUS	85	61	93	49	73	-1	.5	.4	.5	3.8	67	18.6	90	86	41	1	0	2	0	0

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

Weather Data for the Week Ending JULY 14, 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		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
OK DAYTON	84	61	91	49	72	-2	0	- .8	0	3.5	67	18.0	95	78	43	1	0	0	0
OK TOLEDO	84	60	91	45	72	0	.6	- .1	.6	2.1	45	16.3	96	93	46	2	0	2	0
OK YOUNGSTOWN	83	58	89	44	71	1	1.1	- .2	1.1	5.8	114	20.4	106	95	50	0	0	2	1
OK OKLAHOMA CITY	96	72	100	69	84	2	.2	- .5	.2	3.7	74	13.3	77	73	33	7	0	2	0
OK TULSA	97	74	101	68	85	2	.2	- .8	.2	1.8	30	26.2	125	70	35	7	0	0	0
OR ASTORIA	65	51	71	45	58	-2	T	- .2	T	3.8	146	35.1	96	87	63	0	0	0	0
OR BURNS	82	44	84	42	63	-6	0	- .1	0	0	0	5.6	170	—	—	0	0	1	0
OR MEDFORD	91	51	100	48	71	-1	0	- .1	0	0	.7	88	65	80	23	4	0	0	0
OR PENDLETON	86	53	90	49	69	-4	0	- .1	0	0	1.1	138	8.1	119	57	16	2	0	0
OR PORTLAND	76	55	85	54	66	-2	0	0	0	0	4.1	273	19.9	101	82	42	0	0	0
OR SALEM	78	47	86	44	62	-4	0	- .1	0	0	3.9	279	22.9	107	92	40	0	0	0
PA ALLENTOWN	83	62	91	54	73	-1	.4	- .6	.4	9.3	182	33.1	146	89	51	2	0	1	1
PA FRIS	81	61	86	50	71	2	.7	- .1	.7	5.6	118	20.5	106	87	53	0	0	1	1
PA HARRISBURG	84	65	95	54	75	-1	.1	- .7	.1	9.1	186	31.8	156	—	—	3	0	1	1
PA PHILADELPHIA	83	64	90	56	73	-3	.4	- .5	.3	5.0	93	27.4	127	88	49	1	0	2	0
PA PITTSBURGH	81	57	87	45	69	-3	1.2	- .3	.7	4.2	88	19.2	96	93	50	0	0	3	1
PA SCRANTON	81	60	89	50	71	-1	.4	- .4	.4	7.4	162	25.2	142	82	51	0	0	1	0
RI PROVIDENCE	80	62	89	55	71	-1	.2	- .4	.2	4.2	105	33.9	145	88	48	0	0	2	0
SC CHARLESTON	89	72	94	68	81	0	.4	- 1.3	.4	3.9	41	30.9	117	90	56	4	0	1	0
SC COLUMBIA	92	69	98	64	81	0	.6	- .6	.6	8.3	176	30.9	114	93	50	4	0	1	1
SC FLORENCE	90	69	98	61	79	-1	1.1	- .2	.9	6.9	97	29.2	125	87	50	4	0	2	1
SC GREENVILLE	87	68	95	62	78	0	2.0	1.1	1.1	7.1	113	36.2	124	93	57	3	0	2	2
SD ABERDEEN	84	64	87	60	74	2	.8	- .2	.7	7.0	171	13.7	130	84	51	0	0	2	1
SD HURON	89	65	92	60	77	3	.4	- .1	.3	11.6	270	20.4	185	92	42	4	0	2	3
SD RAPID CITY	85	59	90	53	72	0	.6	- .1	.3	6.1	145	11.9	112	84	37	1	0	3	0
SD SIOUX FALLS	87	63	93	59	75	1	.6	0	.3	9.1	186	20.9	163	88	48	3	0	4	0
TN CHATTANOOGA	91	66	94	59	79	0	.2	- .9	.2	5.8	100	30.1	102	96	48	2	0	2	0
TN KNOXVILLE	87	62	91	54	75	-3	1.7	- .7	1.2	7.6	133	31.6	117	98	52	2	0	2	1
TN MEMPHIS	93	73	96	65	83	1	2.0	1.1	1.7	3.3	62	29.8	90	91	48	2	0	2	1
TN NASHVILLE	89	67	94	59	78	-1	T	- .9	T	5.7	112	32.8	118	86	43	4	0	1	1
TX ARLING	97	75	98	73	86	2	T	- .5	T	2.0	61	4.6	30	62	26	7	0	0	0
TX AMARILLO	90	64	94	60	77	-2	T	- .6	T	7.6	169	10.7	108	75	30	5	0	0	0
TX AUSTIN	99	75	100	74	87	2	.4	0	.4	2.1	57	8.5	51	81	31	7	0	2	0
TX BEAUMONT	89	74	90	73	82	-1	.3	- 1.0	.1	3.0	49	26.6	109	100	66	2	0	4	0
TX BROWNSVILLE	93	75	95	72	84	0	.4	- .1	.2	2.9	91	14.6	143	90	46	6	0	3	0
TX CORPUS CHRISTI	94	73	94	71	83	-1	0	- .4	0	.3	8	9.2	70	90	45	7	0	0	0
TX DEL RIO	96	76	97	71	86	0	T	- .4	T	.4	17	4.7	50	72	29	7	0	1	0
TX EL PASO	96	69	100	66	82	-1	0	- .4	0	3.2	246	4.4	163	59	23	7	0	0	0
TX FORT WORTH	99	77	100	75	88	2	0	- .5	0	3.1	91	16.3	96	66	34	7	0	0	0
TX GALVESTON	91	81	93	79	86	3	T	- .8	T	1.1	22	11.6	65	79	63	5	0	0	0
TX HOUSTON	92	72	94	70	82	-1	.5	- .3	.4	3.2	69	17.5	75	80	47	7	0	3	0
TX LUBBOCK	93	69	96	65	81	1	T	- .6	T	4.7	124	5.7	64	68	32	6	0	0	0
TX MIDLAND	95	69	98	65	82	0	.6	- .2	.6	2.9	138	6.8	110	69	26	7	0	1	1
TX SAN ANGELO	95	73	97	69	84	0	T	- .3	T	3.2	133	7.5	83	74	30	7	0	0	0
TX SAN ANTONIO	97	75	98	73	86	1	0	- .4	0	1.5	39	9.6	64	80	31	7	0	0	0
TX VICTORIA	95	76	96	74	86	2	.1	- .5	.1	2.2	40	12.6	69	83	41	7	0	2	0
TX WACO	101	77	103	76	89	3	0	- .4	0	1.8	58	11.2	65	76	31	7	0	0	0
TX WICHITA FALLS	101	75	106	70	88	2	.5	0	.5	2.0	56	6.6	44	67	23	7	0	1	1
UT Blanding	89	60	93	58	75	1	.1	- .1	T	.9	113	3.3	66	71	27	4	0	3	0
UT CEDAR CITY	93	60	100	54	76	2	.1	- .1	.1	.7	88	5.2	102	68	23	5	0	1	0
UT SALT LAKE CITY	92	63	95	56	78	0	.1	- .1	T	2.3	164	11.0	117	67	24	5	0	1	0
VT BURLINGTON	79	60	87	52	70	0	.7	- .1	.5	5.1	102	20.2	124	87	41	0	0	2	1
VA MORFOLK	83	68	96	61	75	-3	1.2	- .1	1.0	3.9	74	30.2	136	98	52	1	0	4	1
VA RICHMOND	86	65	96	57	75	-3	.3	- .8	.3	3.1	55	30.5	143	92	50	1	0	3	0
VA ROANOKE	87	63	94	51	75	-1	.2	- .6	.2	3.3	70	22.5	107	93	45	2	0	2	0
WA COLVILLE	83	49	87	46	66	-2	0	- .2	0	6.0	353	16.4	180	74	36	0	0	0	0
WA QUILLAYUT	66	40	75	40	57	-2	.1	- .5	.1	3.3	85	64.6	119	93	56	0	0	1	0
WA SEATTLE-TACOMA	70	53	78	50	61	-4	0	- .2	0	2.8	165	20.4	106	85	50	0	0	0	0
WA SPOKANE	81	50	87	45	66	-4	0	- .1	0	2.4	160	10.0	110	74	23	0	0	0	0
WA YAKIMA	85	50	87	46	67	-3	0	0	0	1.4	280	5.0	122	69	22	0	0	0	0
WV BECKLEY	80	58	86	44	69	-1	.6	- .4	.5	8.3	146	24.2	103	98	54	0	0	2	1
WV CHARLESTON	87	61	93	49	74	0	.8	- .4	.8	5.9	107	20.7	91	92	43	3	0	3	1
WV HUNTINGTON	87	62	93	50	74	-1	.3	- .7	.3	3.8	72	19.1	85	92	45	3	0	1	0
WV PARKERSBURG	87	63	94	51	75	1	.5	- .6	.5	2.0	31	15.6	63	90	42	3	0	1	1
WI GREEN BAY	82	61	87	52	71	2	2.2	1.5	2.1	7.8	173	16.8	170	97	48	0	0	2	1
WI LA CROSSE	84	61	89	54	73	0	1.8	- .9	1.3	9.4	162	18.6	119	91	53	0	0	4	1
WI MADISON	84	63	88	54	74	3	1.2	- .3	.5	8.8	163	18.6	119	87	53	0	0	3	1
WI MILWAUKEE	85	64	90	55	74	4	2.9	2.1	2.1	7.3	143	20.3	125	93	48	1	0	4	2
WI WAUSAU	79	60	85	54	70	1	5.6	4.7	2.7	12.3	216	21.4	138	93	57	0	0	3	3
WI CASPER	85	53	93	47	69	-2	1.3	1.0	1.2	2.7	159	9.7	131	83	20	2	0	3	1
WY CHEYENNE	83	54	90	48	69	0	.2	- .2	.1	2.5	89	10.1	119	85	27	1	0	3	0
WY LANDER	87	58	94	53	73	2	T	- .1	T	1.5	94	8.3	95	57	21	3	0	2	0
WY SHERIDAN	90	52	97	48	71	1	.1	- .2	.1	2.6	96	9.3	96	73	20	4	0	1	0
PR SAN JUAN	89	76	90	74	83	0	.3	- .8	.3	8.2	128	17.7	78	81	56	2	0	3	0

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

+100 = NORMAL & ACTUAL NEAR THE SAME

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 7-14-1984
ACCUMULATIONS ARE FROM JANUARY 1
** = NORMAL LESS THAN 100 OR RATIO INCALCULABLE

CORRECTION:

VOL. 71 NO.25, Pg 10. HEATING DEGREE DAY SHOULD HAVE READ COOLING DEGREE DAY

Table with columns: STATE CITY, CALL WEEK TOTAL, WEEK DEV FROM, WEEK DEV FROM, CUM TOTAL, CUM DEV FROM, CUM DEV FROM, CUM DEV FROM, CUM DEV FROM, STATE CITY, CALL WEEK TOTAL, WEEK DEV FROM, WEEK DEV FROM, CUM TOTAL, CUM DEV FROM, CUM DEV FROM, CUM DEV FROM, CUM DEV FROM. Lists various cities and their cooling degree day data.

National Agricultural Summary

July 9 to 15

HIGHLIGHTS: Open weather throughout most of the Nation allowed crops to make good growth and development. A few areas reported needing additional moisture to sustain plant growth and maintain grazing on pastures and ranges. Warm, dry weather provided 4 to 7 days suitable for fieldwork. Soil moisture in most areas was reported adequate. Winter wheat harvesting continued to make good progress, and was nearing completion in Kansas, Oklahoma, and Texas. Cotton was rated fair to mostly good; 73% was squaring and 23% was setting bolls. Soybeans were reported in fair to good condition with most in the blooming or pod-setting stage of development. There were some reports of soybean planting, but this was mostly double-cropped beans. Twenty-one percent of soybeans were blooming, compared with 19% a year ago and the average of 24%. Corn continued to be rated fair to good with 9% of the acreage silking. Pastures and ranges remained poor in portions of Texas and the Southwest, but were rated fair to good in most other areas.

SMALL GRAINS: Continued open weather allowed harvesting of winter wheat to continue uninterrupted throughout the central and southern Plains. In the 15 major producing States combining reached 66% completion, 2 points ahead of last year and 1 point ahead of the average. Growers in California, Illinois, Kansas, Oklahoma, and Texas were nearing completion or virtually complete.

Spring wheat was 85% headed, the same as a year ago and 9 points ahead of the average. Progress ranged from 70% in Montana to 96% in Minnesota.

CORN: Corn continued to be in mostly fair to good condition across the Nation, although a few areas reported needing moisture. In the 17 major producing States, 9% of the acreage was silking, 1 point ahead of last year but 9 points behind the average.

SOYBEANS: Soybean planting was virtually complete, but some double-cropped beans were being planted in the Southeast. Planting was also underway in Missouri, where wet weather delayed planting. In the 18 major producing States, 21% of the acreage was blooming, 2 points ahead of last year but 3 points behind the average. Early developing beans were setting pods.

SORGHUM: Sorghum planting was virtually complete in all areas. Twenty-two percent of the crop was headed, 2 points slower than last year and 3 points behind the average. Many fields in the Texas High Plains are being grazed or baled because of dry conditions.

COTTON: Seventy-three percent of the cotton acreage was squaring and 23% setting bolls in the 14 major producing States. This compares with the 73% and 27% averages, respectively. Good growth was seen in the Texas High Plains and irrigated fields, but dryland fields were slow in developing. Harvesting should begin soon in the Coastal Bend and Rio Grande Valley areas. Hot weather increased irrigation in California.

OTHER CROPS: Tobacco harvesting was active in the major producing areas. The Georgia crop was 24% harvested, compared with the 38% average.

Rice was 22% headed in the 5 major producing States, 3 points ahead of last year and 3 points behind the average. The crop has not begun heading in Arkansas and California. Texas growers reported 81% of rice headed and some fields turning color.

Hay cutting was active in many areas, with most first cuttings complete. A few States reported second and third cuttings of alfalfa.

FRUITS AND NUTS: Peach harvesting continued in full swing in most areas. The Georgia harvest was 80% complete, compared with 83% last year and the 79% average. Tart cherry harvesting was well underway in Michigan and New York, while sweet cherry harvesting gained momentum. Pecans in Texas were not developing well in most areas because of a lack of moisture. Heavier than normal droppage was reported, except in the Texas High Plains where moisture was adequate. Grape picking was nearing completion in Arizona, while table grape harvesting gained momentum in California.

VEGETABLES: Land preparation was in full swing across the South for fall crops. Harvesting of summer vegetables continued to decline in the South and increased in northern areas. In the Rio Grande Valley most packing sheds were closing for the season. High temperatures in California accelerated the maturity of vegetables. A limited supply of sweet corn remains to be harvested in Florida.

PASTURES AND LIVESTOCK: Warm temperatures continued to dry grasses on lower elevation ranges and pastures in California. The fire hazard increased as a result of the higher temperatures. Pastures were mostly fair to good in all areas except some portions of Texas. A few areas indicated that additional rain was needed for continued growth. Livestock were rated fair to good.

CROP PROGRESS

FOR WEEK ENDING JULY 15

**WINTER WHEAT
% HARVESTED**

	1984	1983	AVG.
CALIF	98	95	91
COLO	18	14	28
IDAHO	1	1	0
ILL	92	92	91
IND	60	70	60
KANS	98	90	90
MO	88	80	76
MONT	0	0	0
NEBR	40	40	50
OHIO	35	60	45
OKLA	100	95	97
OREG	1	10	3
S DAK	0	13	26
TEX	98	98	97
WASH	1	3	2
15 STATES	66	64	65

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

**COTTON
% SQUARING**

	1984	1983	AVG.
ALA	95	72	87
ARIZ	99	98	98
ARK	97	91	98
CALIF	90	80	90
GA	93	95	96
LA	84	64	84
MISS	94	88	94
MO	96	50	75
N MEX	89	64	80
N C	55	60	73
OKLA	10	15	20
S C	94	92	95
TENN	85	67	80
TEX	61	49	62
14 STATES	73	62	73

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

**COTTON
% SETTING BOLLS**

	1984	1983	AVG.
ALA	20	8	34
ARIZ	75	80	81
ARK	29	16	35
CALIF	40	25	28
GA	49	60	80
LA	30	11	35
MISS	20	12	30
MO	19	0	29
N MEX	35	5	31
N C	30	10	33
OKLA	0	0	0
S C	59	75	72
TENN	11	1	13
TEX	15	10	20
14 STATES	23	16	27

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

**SPRING WHEAT
% HEADED**

	1984	1983	AVG.
IDAHO	90	91	89
MINN	96	93	86
MONT	70	75	55
N D	84	81	72
S DAK	93	97	99
5 STATES	85	85	76

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

**SORGHUM
% HEADED**

	1984	1983	AVG.
COLO	0	0	0
KANS	0	0	2
MO	11	8	14
NEBR	0	0	1
OKLA	10	5	10
S DAK	0	0	0
TEX	61	66	67
7 STATES	22	24	25

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

**RICE
% HEADED**

	1984	1983	AVG.
ARK	0	6	5
CALIF	0	0	2
LA	47	31	48
MISS	15	2	8
TEX	81	72	87
5 STATES	22	19	25

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

**CORN
% SILKING**

	1984	1983	AVG.
COLO	1	1	2
GA	95	95	97
ILL	12	13	36
IND	5	7	20
IOWA	6	1	12
KANS	10	5	15
KY	25	11	36
MICH	1	0	4
MINN	1	1	3
MO	9	8	33
NEBR	1	2	10
N C	73	71	76
OHIO	0	0	0
PA	0	0	0
S DAK	2	1	4
VA	43	51	55
WIS	2	0	3
17 STATES	9	8	18

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

**SOYBEANS
% BLOOMING**

	1984	1983	AVG.
ALA	14	20	20
ARK	4	3	9
GA	16	18	26
ILL	35	42	45
IND	30	25	30
IOWA	34	29	31
KANS	15	10	15
KY	15	4	12
LA	16	15	23
MICH	10	10	12
MINN	20	16	26
MISS	13	5	15
MO	11	15	20
NEBR	25	15	25
N C	6	4	8
OHIO	20	10	20
S C	0	0	0
TENN	12	3	14
18 STATES	21	19	24

THESE 18 STATES PRODUCED 93% OF THE 1983 SOYBEAN 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: Rainfall scattered over most areas. Temperatures slightly above normal.

Soil moisture short to adequate. Fieldwork: 5.4 days. Corn silked 87%, 77% 1983, 86% average. Corn dented 27%, 25% 1983. Soybeans blooming 14%, 20% 1983, 20% average. Cotton squaring 95%, 72% 1983, 87% average. Cotton setting bolls 20%, 8% 1983, 34% average. Peanuts pegging 53%, 59% 1983, 62% average. Activities: Cultivating field crops; controlling insects on fruit, vegetables, and crops; disease control on peanuts; harvesting vegetables and peaches; and routine care of livestock and poultry. Conditions: Soybeans, cotton, peanuts, sorghum, and livestock fair to good; corn mostly fair to good; pasture fair.

ALASKA: Clouds with periods of rain occurred the past week across northern and southern areas with temperatures slightly cooler than normal and precipitation averaging around 0.50 in.

Rainy days limited haying activities throughout Railbelt. Zero to 4 days available for fieldwork. Hay harvest average 60% Tanana Valley, 75% to complete Matanuska, just started Kenai Peninsula. Barley good condition, prospects average. Grain heights ranged 18 to 30 in., most fields headed, small percent in dough stage. Potato plants up to 18 in., hilling 3/4 complete, early fields blooming. Harvesting radishes, leaf lettuce, Romaine, other greens and head lettuce now underway. Soil moisture generally adequate.

ARIZONA: Humid air, showers, thunderstorms, near normal temperatures continued. Precipitation amounts mostly 0.50 to 1.50 in.; heaviest over Mogollon Rim, White Mountains, southeast. Nogales drenched 10th, 40 houses flooded. Afternoon of 14th Pine received 3.50 in. in 1.25 hours. Average temperatures varied from 2° below normal to 2° above. Cotton progress continued good, 99% squaring, 98% last year, 98% average; 75% setting bolls, 80% last year, 81% average. Cotton above average in west; mostly average other areas. About 85% setting bolls west, 75% central, 20% southeast. Wheat, barley harvest practically complete. Alfalfa hay harvest made seasonal progress, supplies good. Much of current cutting stacked. Corn, sorghum condition average to below average. Watermelons harvested in low volume, due to slow market. Honeydew harvest winding down, to finish by July 21. Cantaloupe picking in full swing. Grape picking finished. Chipper potatoes, carrot harvests complete. Citrus groves generally good condition, new crop fruit developing, sizing satisfactorily.

ARKANSAS: Warm and humid, up to 6° above normal. High 106°, lowest 63°, light showers on 11th. Most rainfall 2.60 in., several localities no rain. Soil moisture short. Days favorable for fieldwork: 6.4.

Crop progress moderate to slow. Rain needed. Cotton good condition; squaring 97%, 91% 1983, 98% average; setting bolls 29%, 16% 1983, 35% average. Rice good condition; none headed, 6% 1983, 5% normal. Soybeans fair to good; emerged 93%, 97% 1983 and average; blooming below 5% this year and 1983, 9% average; none setting pods, just beginning last year and average.

Corn good condition. Sorghum good to fair. Most pastures poor grazing. Livestock good to fair.

CALIFORNIA: Still hot! Weekly mean temperatures continued well above normal but no departures of double digit magnitude. Again, all areas showed maxima of 100+° except Cascade-Sierra. Only interior portions of the central and south coasts had 100° or warmer for daily highs. No precipitation reported as upper level high pressure nearly stationary over the State.

Hot weather accelerated cotton, irrigation. Cotton 90% squared, 80% last year, 90% five-year average. Bolls set 40%, 25% last year, 28% average. Sugarbeet fields mildew-treated. Safflower blooming, corn tasseling, northern Sacramento Valley. Hot weather promoted rice development, 0% headed, 0% last year, 2% average. Herbicide, armyworm control continued. Few winter wheat fields not harvested; 98% harvested, 95% last year, 91% average. First cutting alfalfa complete, north; third cutting underway San Joaquin. Lima beans slowed from hot weather. Hot weather past weeks caused problems some crops. Reports of stressed trees, heat-damaged fruit received. Haas, Reed avocado harvests continue. Field operations data orchards include bagging, tying down bunches, for protection. Table grape harvest gaining momentum. Sunburn reported in grapes. Kiwi plantings showing heat stress, northern Sacramento Valley. Heat caused advanced maturity many varieties stonefruit. Harvest Clingstone peaches continues. Heat damage showing up in some plum varieties. Early variety pears being packed. Prunes showing color. Summer grapefruit harvest continues, good quality. Valencia orange harvest continues, light volume, primarily export markets. Almond crop nearing maturity, bulls splitting, early varieties. Growers began spraying for navel orange worm. Walnuts treated for aphids, codling moth, twig borer. High temperatures accelerating maturity vegetable crops. Broccoli fairly heavy supply central coast. Cantaloupe harvest 2 weeks ahead of normal San Joaquin Valley, decreasing desert. Cauliflower moderate supply central coast. Lettuce fairly heavy supply, some curtailment harvest due market conditions. Spring potato harvest decreasing Kern district. Summer potato harvest active Riverside County. Market tomato harvest accelerated by hot weather. Processing tomato harvest well ahead of normal. Warm temperatures continued to dry grass on lower elevation ranges, pastures. The fire hazard increased result higher temperatures during week. Milk, egg production declining result of heat.

COLORADO: Scattered thundershowers brought rainfall to most areas, but amounts varied greatly. Temperatures near normal; southeast above normal.

Winter wheat harvest is in full swing in northeast and southeast. Turning color is at 92%; 1983, 91%; average, 93%, 46% has ripened; 1983 42%; normal, 62%. Harvest is 18% complete; 1983, 14%; normal, 28%. Corn silking has just started. Average height is at 44

inches; 1983, 32 inches; average, 37 inches. Barley is 92% headed; 1983 and normal, 78%, 36% has turned color; 1983, 34%; average, 41%, 4% has ripened; 1983 and normal, 9%. Virtually all sorghum emerged as 1983 and normal. There are flowers on 12% of the dry beans; 1983, 4%; normal, 9%. Sugarbeet thinning finished as normal. Alfalfa first cutting 85% complete; 1983 and normal, 90%. Second cutting is 12% complete; 1983, 10%; normal, 19%.

FLORIDA: Mainly hot humid summertime conditions continued. Scattered mainly afternoon and evening thunderstorms brought varied rainfall amounts from less than 0.25 in. to over 2.00 in. statewide.

Soil moisture ranges from short to surplus depending on local thunderstorms. Corn fair to good condition, maturing rapidly. Soybeans good condition, need more rainfall. Tobacco harvest active about half completed. Peanuts and cotton good condition. Hay making active in dry areas. Sugarcane very good condition. Pasture conditions mostly fair north, but remain good Panhandle and good to excellent central, south. Cattle condition declined slightly north, but remains mostly good statewide. Heavy rains most citrus groves last week. Some excessive moisture, abundance of new growth, new crop fruit good condition, with excellent sizes. Valencia harvest final stages, grapefruit picking almost over for 1984-85. Frequent showers most vegetable areas. Season essentially over most spring vegetables. Limited supplies sweet corn remain for harvest. Watermelon harvest declining northwest, light supplies other areas. Land preparation fall vegetables underway.

GEORGIA: Temperatures averaged about 2° above normal. Highs near 100 central portion 11th. Dry 9th and 10th. Mostly afternoon and evening thundershowers 11th through the weekend. Rainfall totals quite variable. Most locations over 0.50 in. with several stations over 2.00 in.

Soil moisture 43% adequate, 51% short, 5% very short. Average days suitable for fieldwork: 5.6. Main activities: Haying, planting, cultivation, harvesting and spraying for insects and weeds. Corn 95% silked, last year 95%, 97% average; dough 74%, last year 73%, 82% average; dent 45%, last year 38%, 59% average; mature 16%, last year 12%, 30% average; less than 1% harvest this and last year, 2% average; condition 39% good, 47% fair, 10% poor. Cotton 93% squaring, last year 95%, 96% average; 49% setting bolls, last year 60%, 80% average; condition 8% excellent, 58% good, 27% fair, 6% poor. Sorghum 96% planted, last year 95%, 94% average; condition 51% good, 39% fair, 6% poor. Peanuts 96% blooming, last year 97%, 98% average; pegging 83%, last year 84%, 89% average; condition 12% excellent, 69% good, 18% fair. Soybeans 98% planted, the same as last year and average; blooming 16%, last year 18%, 26% average; setting pods 4%, last year 3%, 6% average; condition 56% good, 38% fair, 4% poor. Tobacco 24% harvested, last year 31%, 38% average; condition 10% excellent, 60% good, 27% fair. Watermelons 59% harvested, last year 47%, 69% average; condition 50% good, 41% fair, 7% poor. Wheat 99% harvested, equal to last year and average. Peaches 80% harvested, last year 83%, 79% average; condition 75% good, 21% fair. Apples 9% picked, last year 3%, 8% average; condition 6% excellent, 53% good, 36% fair. Pecan condition 63% good, 31% fair, 4% poor. Vegetable conditions fair to mostly good. Pastures 56% good, 32% fair, and 10% poor. Hay

crops 55% good, 35% fair, 9% poor. Cattle 63% good, 32% fair. Hogs 67% good, 29% fair.

HAWAII: Brief showers early in the week temporarily broke the dry spell. The showers, occasionally heavy, were associated with former tropical depression Douglas, and moved northwestward through the State. Much more rainfall, however is still needed to alleviate the dry conditions persisting in most agricultural areas. As of July 12, water restrictions went into affect on Oahu. Its impact on agriculture is unknown at the moment, but most of the State's vegetable crops are grown on the other islands where irrigation water supplies are still adequate. Temperatures matched record highs late in the week. Most crops are making fair to good progress under increased irrigation. Some heat related problems are affecting mature crops. Supplies of head cabbage and head lettuce are expected to remain heavy. Chinese cabbage production will be moderate. Banana supplies remain light. Papaya production will be near last weeks level, but an increase is expected soon.

IDAHO: A westerly flow brought warm, dry weather to the State. Temperatures averaged from 15 to 20° above normal. Rainfall was light and scattered, generally averaging below normal. Precipitation departures averaged from 0.20 to 0.25 in. below normal.

Crop development improved as 6.7 days were suitable for fieldwork. Winter wheat progressed to 31% turning color and 1% harvested compared to 60% turning and 1% harvested in 1983. Spring wheat rose to 90% headed versus 91% last year and 89% average. Spring barley advanced to 85% and 15% turning color. First cutting of alfalfa was 91% harvested versus 85% in 1983 and 90% average. Potato development trailed last year at 96% closing rows versus 53% in 1983.

ILLINOIS: Temperatures normal to 6° above normal. Precipitation 0.00 to 3.47 in.

Soil moisture 58% adequate, 42% short. Days suitable for fieldwork: 6.0. Corn silked 12%, last year 13%, average 36%. Corn condition 22% excellent, 70% good, 7% fair, 1% poor. Soybeans blooming 35%, last year 42%, average 45%; setting pods 5%, last year 5%, average 10%. Soybean condition 5% excellent, 66% good, 27% fair, 2% poor. Winter wheat harvested 92%, last year 92%, average 91%. Oats turning yellow 80%, last year 74%, average 79%; ripe 35%, last year 34%, average 42%; harvested 16%, last year 15%, average 19%. Oat condition 10% excellent, 68% good, 18% fair, 4% poor. Alfalfa condition 23% excellent, 64% good, 11% fair, 2% poor. Second crop cut 60%, last year 62%, average 62%. Pasture condition 9% excellent, 53% good, 35% fair, 3% poor.

INDIANA: Temperatures averaged 3 to 5° above normal north and 3° above south. Highs from mid 80's to low 90's. Soil temperatures climbed into the 90's over most areas. Precipitation below normal. Totals from 0.90 in. northwest to only 0.10 in. southwest and East Central Indiana.

Fieldwork averaged 5.5 days. Topsoil moisture short to mostly adequate, subsoil moisture short to mostly adequate. Wheat 60% harvested, 1983 70%, average 60%. Soybeans 30% in bloom, 1983 25%, average 30%. Soybeans 15 in. tall, 1983 13 in., average 15 in. Soybean condition fair to mostly good. Corn 5% silked, 1983 7%, average 20%. Corn condition fair to mostly good. Corn 52 in. tall, 1983 46 in., average 51 in. Alfalfa 55% cut second time, average 50%. Oats

5% combined, 1983 8%, average 9%. Rye 40% combined, 1983 45%, average 50%.

IOWA: Warm week: moderate rainfall. Days suitable for fieldwork: 5.9. Average height corn 52 in., 52 in. last year. Tallest corn averaged 68 in., 64 in. last year. Corn beginning to tassel: 12%, 26% last year. Corn crop 18% excellent, 58% good, 21% fair, 3% poor. Cultivating soybeans 93% complete; 93% last year. Soybean crop condition 10% excellent, 61% good, 25% fair, 4% poor to very poor. Soybean acreage bloomed 34% complete; 29% last year; 31% normal. Oat crop condition 17% excellent, 53% good, 26% fair, 4% poor. Oat crop turning color 78% complete; 54% last year. Oat acreage harvested 6% complete. Harvesting winter wheat crop 42% complete, 31% last year, 46% normal. Second crop of alfalfa 31% complete, 34% last year, 44% normal. First crop of clover harvested 93% complete, 88% last year, 96% normal. Hay crop condition, 22% excellent, 56% good, 17% fair, 5% poor to very poor. Topsoil moisture conditions 1% surplus, 65% adequate, 34% short. Subsoil moisture condition 16% surplus, 80% adequate, 4% short. Livestock generally good to excellent condition. Pasture conditions 23% excellent, 49% good, 28% fair to very poor.

KANSAS: Precipitation averaged 0.50 in. east central, 0.10 in. southwest and 0.10 to 0.20 in. elsewhere. Temperatures averaged 79° northwest and 81 to 84° elsewhere, 2 to 5° above normal.

Wheat 98% harvested, 90% last year, 90% average. Sorghum 0% headed, 0% last year, 2% average. Light to moderate infestation greenbugs and chinch bugs. Soybeans 15% blooming, 10% last year, 15% average. Corn 10% silking, 5% last year, 15% average. Light levels of European corn borer, southwestern corn borer and corn earworm. Topsoil moisture short except northeast and east central. Subsoil moisture adequate. Pasture and rangeland good to excellent. Days suitable for fieldwork: 6.5.

KENTUCKY: Mean temperatures ranged mostly from 75° to 80°. Highs in low to mid 90's, lows upper 50's to low 60's. This represents temperatures near to a few degrees above normal. Precipitation mostly light with amounts ranging from traces to locally in excess of 2.00 in.

Crop condition generally good. Soil moisture 17% short, 79% adequate, 4% surplus. Days suitable for fieldwork 5 out of 6. Corn 25% silking or beyond, 11% year ago, 36% average. Corn in critical stage of development and additional rainfall would be beneficial. Burley prospects average or better with only normal insect and disease problems. Approximately 10% of tobacco 3 ft. or more in height. Soybeans 15% blooming, 4% last year, 12% average. Most double crop beans planted. Wheat harvest nearing finish. Pastures fair to good and would benefit from additional rain.

LOUISIANA: Rainfall amounts ranged from 0.05 in. to 3.70 in. Temperatures averaged between 1° below normal to 1° above normal. High 97°; low 64°.

Soil moisture adequate. Days suitable for fieldwork: 4.7. Activities included hay, peach, and vegetable harvesting and chemical applications. Rice headed 47% 1984, 31% 1983, 48% average; ripe 2% 1984, 1% 1983, 5% average; condition good. Corn silked 97% 1984, 93% 1983, 95% average; dough stage 82% 1984, 58% 1983, 74% average; mature 17% 1984, 13% 1983, 30%

average. Few fields harvested 1984, 2% 1983, 4% average; condition good. Cotton squaring 84% 1984, 64% 1983, 84% average; setting bolls 30% 1984, 11% 1983, 35% average; condition good. Soybean blooming 16% 1984, 15% 1983, 23% average; setting pods 4% 1984, 4% 1983, 8% average; condition good. Sorghum headed 71% 1984, 49% 1983, 49% average; turning color 12% 1984; condition good. Sugarcane condition fair to good. Vegetable condition fair to good. Peaches harvested 65% 1984, 69% 1983, 78% average; condition good. Hay first cutting 99% 1984, 96% 1983, 98% average. Pasture condition fair to good. Livestock condition good.

MARYLAND AND DELAWARE: **Maryland:** Temperatures averaged mostly 1° to 4° below normal. Rainfall ranged from 3.18 in. at Oakland to 0.02 in. at Woodstock. Barley 100% harvested; on schedule. Oats 50% harvested; equal to 1983. Rye harvest 85%; 1983 80%. Wheat 75% harvested; 85% 1983. Corn silked 15%; equal to 1983, 20% 3 year average. Second cutting alfalfa hay 65%; 60% 1983, 3 year average 70%. Other hay cut 2 times 35%; 60% 1983, 3 year average 50%. Snap bean harvest 65%; 50% 1983, 60% 3 year average. Cucumbers 35% picked; 20% 1983. Sweet corn and tomato harvest 10% complete; last year just beginning. Potato and cantiloupe harvest 5%. Watermelon harvest starting on the Lower Shore. Soybean and tobacco bloom 10% complete.

Delaware: Temperatures for the week ended July 13th were 2° below normal north and central and 4° below normal south. Precipitation ranged from 0.59 in. at Dover to 2.08 in. at Middletown. Small grain harvest behind normal. Rye harvest 47%; 79% 1983, 3 year average 77%. Wheat 84% combined, 95% 1983 and 3 year average. Corn 37% silked, 27% 1983. Third cutting alfalfa hay 12%; zero 1983. Other hay 65% cut twice; 73% 1983, 52% 3 year average. Snap bean harvest 50%, 1983 25%, average 52%. Sweet corn and cucumbers 10% harvested, last year 8% and 35% respectively.

MICHIGAN: A typical warm summer week across the State. Temperatures averaged 2° above normal. Precipitation moderate over most of the State. Scattered thunderstorms improved soil moisture supplies. However, soil moisture remains short in southern counties.

Days suitable fieldwork: 5.0. Winter wheat 20% ripe, 25% last year, 33% average; oats 10% yellowing, 15% last year, 26% average. First cutting hay is virtually complete. Second cutting hay 15% complete, 20% last year, 16% average. Corn 1% silked, 0% last year, 4% average. Soybeans 10% blooming, 10% last year, 12% average. Dry beans are just starting to bloom. Cherry harvest active in southern counties. Sweet cherries 15% harvested, 10% last year, 27% average. Tart cherries 10% harvested, 15% last year, 24% average. Vegetable crops developing slower than normal but prospects remain favorable.

MINNESOTA: Temperatures averaged near normal to 4° above normal. High: 98°, low: 47°. Precipitation averaged 1.52 to 1.04 in. above normal for southeast and south central; 0.14 to 0.49 in. above normal for southwest, northwest, and east central; and 0.10 to 0.63 in. below normal elsewhere. Greatest reported weekly total: 3.47 in.

Needed rainfall received by most areas. Warmth favored row crop development. Small grains were maturing rapidly but not heat stressed. Uneven height if corn and soybeans in southwest; tall and even in southeast, but corn borer infestation heavy. Senior army worm

outbreaks in some areas. Days suitable for fieldwork: 4.8. Topsoil moisture: 4% very short, 9% adequate, 9% surplus. Heading: spring wheat 96%, 1983 93%, normal 86%; oats 97%, 1983 93%, normal 91%; barley 97%, 1983 96%, normal 89%. Turning ripe: spring wheat 18%, 1983 19%, normal 22%; oats 31%, 1983 21%, normal 29%; barley 40%, 1983 34%, normal 33%. Height: corn 44 in., 1983 36 in., normal 43 in.; soybeans 14 in., 1983 13 in.; normal 15 in. Tasseling: field corn 3%, 1983 3%, normal 10%. Blooming: soybeans 20%, 1983 16%, normal 26%.

MISSISSIPPI: Thundershowers 12th and 13th. Temperatures 1 to 2° above normal. Temperature extremes 64 and 98°.

Soil moisture short. Fieldwork: 5.9 days suitable, 6.2 1983 and 5.1 average. Main activities cutting hay, weed and insect control. Wheat harvested 100%, 94% 1983. Hay harvest 45%, watermelons 35%, peaches 60% and corn silage 6% harvested. Sweetpotato planting 99% completed. Cotton condition good; 94% squaring, 88% 1983, 94% average; 53% blooming, 31% 1983, 58% average; 20% setting bolls, 12% 1983, 30% average. Rice good to fair; 15% heading, 2% 1983, 8% average. Corn fair; 83% silking, 65% 1983, 81% average; 40% dough stage, 28% 1983; 17% dented. Soybeans fair; 98% planted, 92% 1983; 13% blooming, 5% 1983, 15% average. Sorghum fair to good; 30% heading, 15% 1983. Pasture condition fair.

MISSOURI: A warm, relatively dry, week as temperatures averaged 2° above normal. Average rainfall was less than 0.50 in. with many reporting stations receiving no rain and the rivers are back within their banks.

Days suitable for fieldwork: 5.0. Cotton 96% squaring this year, 50% last year, 75% normal. Cotton setting bolls 19% this year, 0% last year, 29% normal. Grain sorghum heading 11% this year, 8% last year, 14% normal. Winter wheat harvested 88% this year, 80% last year, 76% normal. Double-crop soybeans planted 89% this year, 80% last year. All soybeans planted 98% this year, 97% last year. All soybeans blooming 11% this year, 15% last year, 20% normal. Corn tasseling 21% this year, 18% last year. Corn silking 9% this year, 8% last year, 33% normal. Oats harvested 60% this year, 40% last year, 50% normal. Second cutting alfalfa 66% this year, 54% last year, 63% normal. Other hay harvested 80% this year, 83% last year. Condition of corn 9% excellent, 66% good, 25% fair. Soybean condition 5% excellent, 56% good, 38% fair, 1% poor. Grain sorghum condition 10% excellent, 60% good, 29% fair. Cotton condition 6% excellent, 69% good, 19% fair, 6% poor. Pasture condition 7% excellent, 67% good, 26% fair. Topsoil moisture supply 6% surplus, 80% adequate, 14% short.

MONTANA: Third consecutive week of very dry weather. Most areas dry all week. Few areas that did receive rain had less than 0.10 in. Temperatures warm to hot, averaged 1 to 3° below normal west and southwest, 2 to 4° above normal in extreme east.

Topsoil moisture short except southwest. Subsoil moisture short except west and south central. Fieldwork, days suitable: 6.8. Small grains fair condition north and east, good condition south and west. Sugarbeets good condition. Winter wheat headed 20% 1984, 45% 1983, 50% average. Winter wheat turning 80%, 50% 1983, 50% average. Spring wheat headed 70% 1984, 75% 1983, 55% average. Barley headed 75% 1984, 70% 1983, 60% average. Oats headed 70%

1984, 70% 1983, 60% average. Alfalfa hay cut 80% 1984, 70% 1983, 75% average. Winter wheat harvest expected to start near July 27 most of State, near August 7th west of Continental Divide. Range feed and stock water supplies short north central, central, and northeast.

NEBRASKA: Precipitation 0.40 in. average. Temperatures near normal.

Corn mostly good to fair, 1% silked, 2% last year and 10% average. Irrigation active. Winter wheat ripe 70%, last year 60%, 80% average. Harvested 40%, last year 40%, 50% average. Sorghum mostly good to fair, headed 0%, last year 0%, 1% average. Soybeans mostly good to fair, 25% blooming, 15% last year and 25% average. Alfalfa second cutting 25%, last year 40%, 50% average. Topsoil moisture mostly adequate to short. Subsoil moisture adequate. Days suitable for fieldwork were 6.4.

NEVADA: Week started dry but by 12th, moisture entered and showers and thundershowers continued into weekend over south and east. Temperatures at normal levels northwest. Northeast, south central and extreme south areas all warmed 3 to 6° above normal. Temperature extremes: 38 and 110°. Thunderstorms with lightning set off more range fires during week.

Hot, dry weather ideal for hay and small grain harvest operations. High night temperatures pushed vegetative growth row crops. Potatoes putting on tonnage.

NEW ENGLAND: Precipitation averaged 1.00 in. over northern Maine, southern Vermont and northwestern Massachusetts; elsewhere 0.25 to 0.50 in. Temperatures began the week at normal levels then rose slightly above normal after midweek. Average temperatures ranged from the mid 60's to the mid 70's, north to south.

First cut hay 85% harvested, second cut 15%. Soil moisture levels adequate in all States except Maine where surplus conditions reported. Potatoes in full bloom in Southern Maine. Rhode Island potato growers battling heavy infestation of Colorado potato beetle; however first generation damage not severe. Average of 5.0 days suitable for fieldwork.

NEW JERSEY: Temperatures averaged near normal. Extremes were 49° on the 10th and 96° on the 15th. Weekly rainfall averaged 0.94 in. north, 0.43 in. central, and 0.62 in. south. The heaviest 24-hour total was 1.55 in. on the 11th to 12th. Estimated soil moisture, in percent of field capacity, averaged 90% north, 81% central and 71% south. Four inch soil temperatures averaged 76° north, 80° central and 81° south.

Fieldwork: 5.5 days suitable. Soil moisture supply mostly adequate to surplus. Corn and soybeans generally in good condition. Main farm activities: Combining barley, wheat and rye. Baling 2nd cutting of alfalfa hay, harvesting summer vegetable and fruit, and planting of soybeans following small grains.

NEW MEXICO: Temperatures above normal. Scattered thundershowers throughout week. Crop progress good. Grain harvest neared completion - yields good. Third cutting alfalfa underway, onion digging continues. Potatoes, peanuts, chile showing good growth. Ranges greening currently good to excellent. Livestock gaining well. Some late branding. Cotton squaring: this 89%, last year 64%, average 80%. Cotton setting bolls: this year 35%, last year 5%, average 31%.

NEW YORK: After a chilly beginning, temperatures climbed to above normal towards the end of the week into the mid-sixties to mid-seventies. Thunderstorms triggered by a cold front passing through on the 11th accounted for most of the rain. Below normal rainfall averaged 0.25 to 0.50 in. but higher isolated amounts around 1.50 in. fell just north of Albany and at Binghamton. Damaging winds and hail accompanied some of the thunderstorms in the Mohawk Valley and capital district.

Haying and other farming activities were delayed by rains again last week. Corn development remains variable. Most fields look good. First cut alfalfa hay is 89% complete, behind last years 97% but ahead of historic average of 85%. Clover-timothy haying is 72% complete, compared with 91% a year ago and historic average of 73%. Grass silage harvesting at 89% complete is behind the 95% last year and slightly ahead of the 88% historic average. Some second cutting of hay is underway. Oats are heading out. Soil moisture is mostly adequate with a few areas reporting surplus to excessive. An average of 2 days were unsuitable for fieldwork. Sweet cherry harvest is at its peak. Tart cherry crops is in excellent condition and coloring rapidly. Apple and grape crops remain in good condition.

NORTH CAROLINA: Temperatures averaged near normal statewide. Precipitation ranged from 0.26 to 12.11 in.

Soil moisture: 2% very short, 39% short, 55% adequate, 4% surplus. Days suitable for fieldwork: 5.6. Condition: corn 2% poor, 25% fair, 66% good, 7% excellent. Cotton 5% fair, 85% good, 10% excellent. Peanuts 33% fair, 60% good, 7% excellent. Soybeans 20% fair, 78% good, 2% excellent. Tobacco 21% fair, 77% good, 2% excellent. Irish potatoes 22% fair, 78% good. Peaches 10% fair, 80% good, 10% excellent. Harvested: Flue-cured tobacco 7%, 5% 1983, 10% average. Wheat 97%, 1983 98%, average 98%. Oats 97%, 1983 99%; average 99%. Barley 98%, 1983 99%, average 99%. Peaches 54%, 1983 60%, average 67%. Major farm activities: Haying, topping and spraying tobacco, harvesting tobacco, cultivating crops, planting soybeans, harvesting peaches, vegetables and apples, applying herbicides and pesticides, and general farm maintenance.

NORTH DAKOTA: The past week was the warmest of this growing season. Temperatures were from nearly 50 above normal in the southeast to 20 above normal west central. Extremes ranged from 99 to 430. Moisture was below normal across the State except in the northeast where an average of 1.22 in. of rain fell. The west central district recorded no moisture.

Crop development continued at good pace with drier than average topsoil moisture condition. All crops rated mostly good and development ahead of normal. Percent heading or beyond compared to last year and average for hard red spring wheat 84, 81, 72; durum 68, 68, 61; barley 89, 85, 76; oats 77, 81, 72. Row crop development also at or ahead of normal. European corn borer becoming a problem along with sunflower beetles, stem weevils and grasshoppers. Spraying commenced in many areas.

OHIO: Temperatures 2 to 40 above normal north; 1 to 30 above normal south. Precipitation widespread, totals from 0.50 to 1.50 in.

Main activities wheat harvest, second-cut hay, soybean cultivation. Soil moisture 20% short, 75% adequate, 5% surplus. Days suitable

fieldwork: 5.0. Corn 14 leaves fully emerged, 14 leaves 1983, 14 leaves average; condition fair to good. Soybeans blooming 20% 1984, 10% 1983, 20% average; condition fair to good. Winter wheat harvested 35% 1984, 60% 1983; 45% average. Pasture fair to good condition.

OKLAHOMA: Temperatures average 1 to 20 above normal northwest and Panhandle, 3 to 40 above normal elsewhere. Widely scattered thunderstorms left sparse rainfall amounts across State ranging 0.04 in. south central to 1.77 in. east central.

Row crop development slowed by prevailing hot, dry weather. Rain badly needed statewide. Crop insect activity light to average with grasshopper populations increasing. Pastures and ranged need rain to sustain summer grazing. Livestock gains poor. Wheat harvested: 100%; 95% 1983, 97% average. Sorghum headed: 10%, 5% 1983, 10% average. Cotton squaring: 10%, 15% 1983, 20% average.

OREGON: Dry weather over all of State. Temperatures ranged from 60 below normal in the northeast mountains to 40 above normal at Lakeview. Most northern and central areas were 1 to 30 below normal, while southern areas were 1 to 30 above average.

Winter wheat conditions remain good for entire State, 80% of crop turning color, 1% harvested, 10% last year, 3% average. Cheatgrass and other weeds posing problems, very little effect on yield. Wheat harvest in Willamette Valley three weeks away. Grass seed harvest well underway. Barley harvest started along Columbia Basin. Second cutting of hay nearly complete in Hermiston-Boardman and Willamette Valley areas. Central area nearly finished with first cutting. Statewide hay good quality. Soil moisture ranges from short to adequate. Strawberry harvest essentially complete. Raspberry harvest in full swing, Marionberry blueberry and boysenberry harvest just starting. Sweet cherry picking in full swing, considerable splitting of Corums in Willamette Valley. Apricots are ripe. Bartlett pear picking to begin around August 10. Hand thinning of Bartletts and apples continue in Hood River County, Willamette Valley peaches and apples sizing nicely. Filbert set varied, younger orchards look best. Broccoli harvest in full swing. Potato rows closing in Hermiston area, harvest one week away. Early snap beans nearing harvest, carrot seed starting to bloom, onions and sweet corn growing well. Livestock, range and pasture conditions vary widely. Some pastures drying up fast, others remain in good condition. Feeder cattle presently going to market, weight lower than last year.

PENNSYLVANIA: Driest week since mid-June. Average precipitation was around 0.70 in. Heaviest amounts were in the extreme western counties. Temperatures were near the normal for the week. Extremes 95 and 390.

Days suitable: 4.0. Moisture adequate to surplus. Activities: Making hay; spraying corn; trimming pastures; top dressing hay fields; harvesting barley, wheat, cabbage, raspberries. Barley 26% ripe, 51% harvested, last year 19% ripe, 61% harvested. Wheat 39% turning yellow, 45% ripe, 9% harvested, last year 37% turning yellow, 31% ripe, 24% harvested. Average corn height 32 in., last year 34 in. First cut alfalfa 26% complete, last year 37%. First cut clo-tim 78% complete, last year 91%. Quality of hay made mostly poor to fair. Feed from pastures average to above average.

PUERTO RICO: Island average rainfall 0.65 in. or 0.57 in. below normal. Highest weekly total 3.89 to 3.00 in. Highest 24-hour total 3.00 in. Temperature averaged about 81 to 80° on coasts and 75° interior divisions. Extremes 95 and 55°.

SOUTH CAROLINA: Weather averaged near to slightly above normal. Temperatures below usual early week, well into nineties midweek. Weekend temperatures near seasonal values. Intense midweek heat broken during last days of week with widespread thunderstorms. Rainfall quite variable, most areas received some precipitation.

Soil moisture short to adequate. Days available for fieldwork: 5.6. Corn condition fair; 91% silked, 87% last year, 88% average; 44% dough stage, 30% last year, 64% average. Cotton condition fair to good; 94% squaring, 92% last year, 95% average. Soybean condition fair to good; 97% planted, 98% last year, 97% average. Tobacco condition fair to good; 17% harvested, 5% last year, 23% average; 98% topped, 73% last year, 85% average. Peach condition good; 43% harvested, 50% last year, 55% average.

SOUTH DAKOTA: Average temperatures were 2 to 6° above normal. Extremes: 100 and 46° outside the Black Hills. In the Hills the low was 37°. Precipitation was scattered across the State with up to 3.31 in. reported.

Days suitable for fieldwork: 5.0. Topsoil moisture was adequate over most of the State. A small portion of the southeast and east central continues to report a surplus. A shortage was reported across most of the northwest and other scattered areas of the State. Mosquitoes and flies are bothering livestock in the central and east. Grasshoppers are causing problems for the west. Spring wheat headed 93%, 1983 97%, average 99%. Sorghum headed 0%, 1983 0%, average 0%. Winter wheat harvested 0%, 1983 13%, average 26%. Corn silked 2%, 1983 1%, average 4%.

TENNESSEE: A warm front moved through 10th followed by a cold front 12th which brought scattered thundershowers 11th and 12th. Thunderstorms moved through the State the 15th. Temperatures averaged from the low 70's in the east to the mid 80's in the west. Precipitation was received across the State with the heaviest amounts in the extreme southwest.

Farmers averaged 4.8 days suitable for fieldwork. Soil moisture: 3% surplus, 58% adequate, 30% short, 9% very short. Corn tasseling: 42%, 1983 38%, average 48%. Corn dough: 6%, 1983 6%, average 7%. Cotton squaring: 93%, 1983 67%, average 80%. Cotton setting bolls: 11%, 1983 1%, average 13%. Wheat harvested: 98%, 1983 95%, average 95%. Soybeans blooming: 12%, 1983 3%, average 14%.

TEXAS: Typical mid-summer weather pattern, system weak and sluggish. Nearly stationary front Red River, scattered showers and thunderstorms. Rainfall generally light, but amounts 1.00 to 2.00 in. north central and northeast Texas. High pressure and thunderstorms remainder State, amounts generally light. Overall, precipitation below normal, except Lower Valley. Temperatures above normal north central areas, Low Rolling Plains. Remainder State near or below normal.

Crops: Majority State dry, open weather. Crops mature rapidly under dry, hot conditions. Southern High Plains only exception, showers temporarily halted field operations. Some minor

hail damage received. Grain sorghum harvesting continued Rio Grande Valley, activities spread northward Blacklands. Sorghum fields good growth Plains under moderate irrigation. Later fields better growth than earlier fields. Many fields Low Plains, Cross Timbers continue grazed, baled due dry conditions. Harvesting begun Blacklands. Major harvesting this area begin soon; crop maturing ahead of schedule. Lodging caused some yields lower than expected Coastal Bend. Harvesting continues Rio Grande Valley. Statewide condition 71% of normal compared with 75% a year ago. Current reported conditions: 6% excellent, 44% good, 37% fair, 11% poor and 2% failure. Corn crop continues good growth High Plains, most fields tasseling stage. Elsewhere, crop drying rapidly under hot, dry conditions. Harvesting begun south central areas small scale. Harvesting along Upper Coast, current condition rated at 70% of normal. Reported conditions are 10% excellent, 40% good, 34% fair, 15% poor and 1% failure. Wheat harvest progressed rapidly High Plains, drying conditions prevailed. Activities virtually completed, yields proving out better than earlier expectation. Cotton good growth High Plains. Blooming increased. Irrigated cotton Low Plains squaring; dryland fields slow develop. Bollworm continue Blacklands. Harvest Coastal Bend, Rio Grande Valley should begin soon. Crop development ahead of previous year. Irrigated peanut fields High Plains setting fruit, currently good condition. Elsewhere, stands fair condition under heavy irrigation. Additional rainfall needed dryland peanuts. Soybeans irrigated land good growth Plains. Upper coast, early beans maturing rapidly. Rice fields head out, turn color. Maturing slightly ahead of normal. Harvesting begin soon.

Cotton planted 100%, 100% 1983, 100% average; squaring 61%, 49% 1983, 62% average; setting bolls 15%, 10% 1983, 20% average; open bolls 2%, 1% 1983, 3% average. Rice headed 81%, 72% 1983, 87% average; turning color 30%, 15% 1983, 38% average. Sorghum planted all purposes 100%, 100% 1983, 100% average; headed 61%, 66% 1983, 67% average; turning color 52%, 50% 1983, 52% average; mature 36%, 25% 1983, 33% average; harvested for grain 26%, 7% 1983, 18% average. Wheat harvested for grain 98%, 98% 1983, 97% average. Oats harvested for grain 94%, 93% 1983, 97% average. Peanuts planted 98%, 100% 1983, 99% average. Sunflowers 99%, 97% 1983, 96% average.

Commercial vegetables: Rio Grande Valley, most packing sheds through for season. Land preparation fall crops continues. San Antonio-Winter Garden, light volumes cucumbers, cantaloupes shipped. Land preparation fall main activity. East Texas, harvesting watermelons continues, light yields reported. Trans-Pecos, onion harvest continues steady pace due to open weather. High Plains, onion harvest progressing well. Good quality. Potatoes also progressing well. Peach harvesting continues minor scale, good to excellent quality. Light damage result insect populations. Pecans not developed well most areas due lack of moisture. Heavier than normal droppage occurring. Only exception High Plains where adequate moisture received.

Range and livestock: Range, pasture conditions not improve greatly during week. Lack of rainfall critically dry areas continues plague livestock producers. Heavy marketing continues, causing prices depress slightly. Trans-Pecos, adequate grazing available where proper management occurred. Hay yields continue short. Additional rainfall needed ensure more cuttings. Prices hold steady Plains, movement slowed due some growth of pastures.

UTAH: Recurring, scattered thunderstorms deposited light to moderate, with some locally heavy, precipitation. Decreasing temperature trend. Maximums 1.50 above normal north and 3.50 above south, ranging 40 below to 60 above. Minimums 10 above normal north and 40 above south, ranging 30 below to 80 above.

Days suitable for fieldwork totaled 6.5 last week. Soil moisture non-irrigated lands short to adequate. Winter wheat 100% headed, 78% turning color, 30% ripe. Some already harvested extreme southern areas. Spring wheat and barley 88 to 90% headed out. Green peas 90% harvested. Tart cherries rated fair condition, picking will begin July 23. Apples and pears also rated fair condition. Peaches rated good. Range feed on areas now in use rated excellent. Livestock in good condition. Stock water adequate.

VIRGINIA: Partly cloudy with showers and thundershowers mid period. Cool early in period with warming trend. Average departure minus 1.60. Average rainfall 1.1 in. Evenly distributed except sparse amounts in southwest.

Adequate shower activity kept most crops in good condition through week. However, rain has missed some areas around State. Topsoil moisture ratings were 21% short, 77% adequate, 2% surplus. Days suitable for fieldwork: 4.9. Corn in good condition but additional rain needed for pollination. Corn 43% in silk, 51% last year, 55% average. Soybeans in good to excellent condition with planting almost complete. Cultivation and herbicide spraying are major activities. Tobacco in good to excellent condition. Normal spraying and topping activities. Some irrigation reported. Peanuts developing normally and in good to excellent condition. Farmers applying land plaster, spraying, and cultivating. Small grain harvest winding down. Barley harvest virtually complete. Wheat 88% harvested, 92% last year, 93% average. Oats 82% harvested, 85% last year. Recent rain has improved pastures in most areas. Pastures in good condition. Hay in good condition but second cutting yields short due to dry June. Fruit in good condition. Peach harvest beginning. Local fresh market vegetables now available. Fall cabbage being planted in southwestern area.

WASHINGTON: Winter wheat conditions good to excellent for most of the State. Harvest will be late but some very early fields are now being harvested. Sunny weather has accelerated corn growth; however corn development is a week behind normal. Harvest of second cutting alfalfa in mid-swing. Very favorable weather has hastened hay harvest. Strawberry harvest near completion; raspberry harvest is underway,

early blueberries are being harvested. Sweet cherry harvest nearing completion. Apricot harvest starting. Green pea harvest underway for most of the State. Cabbage, broccoli and cauliflower being harvested. Norgold potato digging one week away. June rains have kept many pastures green; however, non-irrigated pastures are beginning to dry up. Winter wheat harvested 1%; 3% 1983; average 2%.

WEST VIRGINIA: Temperatures averaged near normal. Cool early in the week with above normal temperatures by weekend. High 96° in Burlington, Spencer and Parkersburg. Low 33° in Canaan Valley. Precipitation was heavy in northern areas. Most precipitation in Terra Alta 3.35 in., Lewisburg received the least 0.01 in.

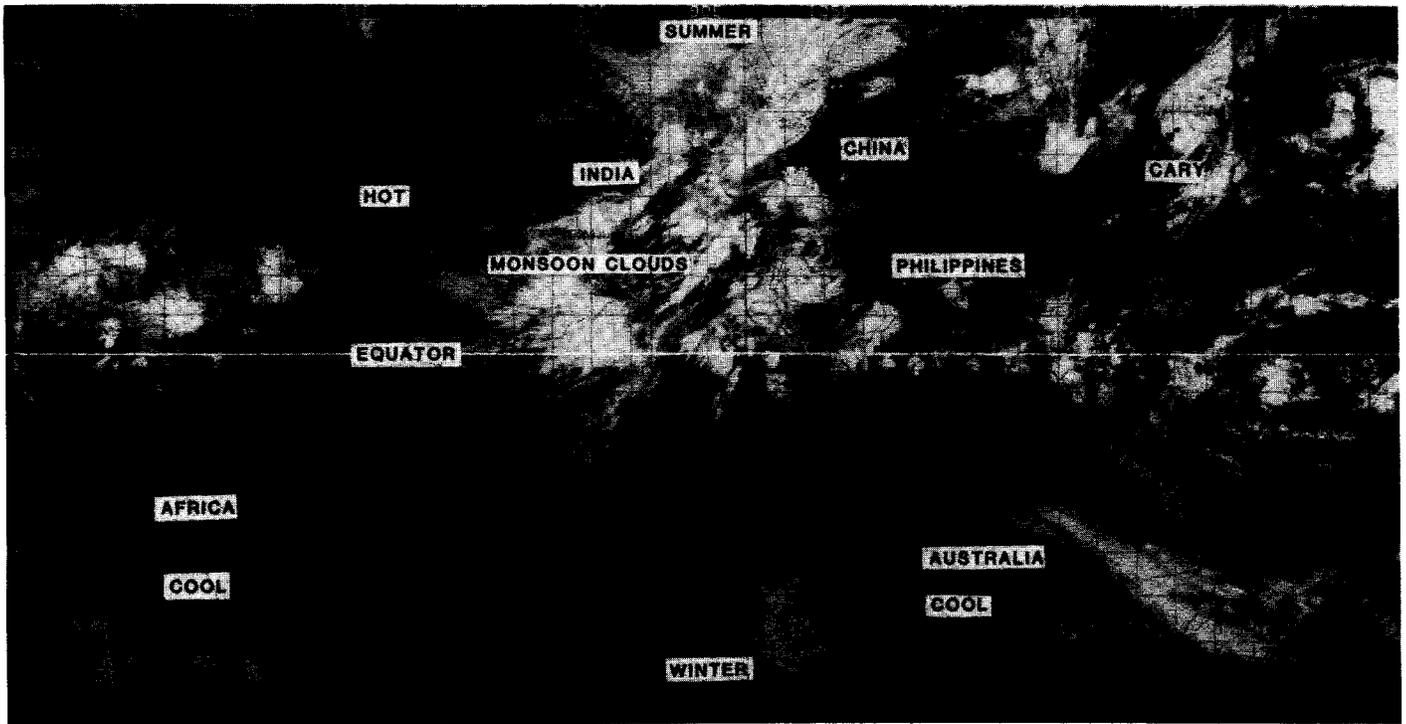
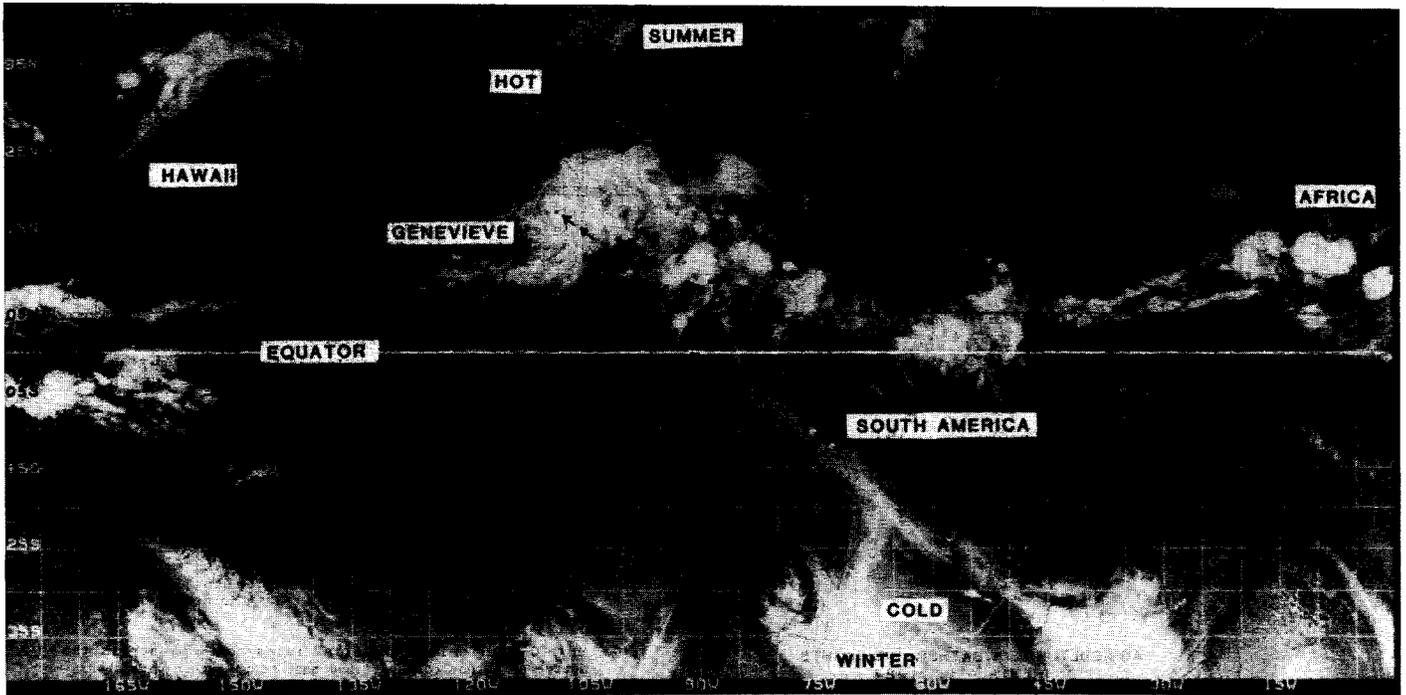
Soil moisture adequate. Days suitable for fieldwork: 3.7. Main activities: Harvesting hay, small grain harvest and clipping pasture.

WISCONSIN: Temperatures and precipitation were above normal for the week with highs generally in the 80's. Thunderstorms raged late the 9th and into the 10th with severe storms on the 9th producing 60 mph winds and hail. An interval of fair weather was followed by another round of thunderstorms the 14th. Most areas received from between 1.00 and 2.50 in. of rain.

Even though second haying was well underway some farmers were still struggling with their first cutting. Wet and humid weather prevented drying of hay, turning some of it brown. First cut hay was 97% complete compared with 96% last year and an average of 98%. Second cut hay was 11% complete, against 12% last year and a 13% average. Corn grew by as much as a foot in most areas, height was 44 in., compared with 36 in. last year and an average of 46 in. Corn was 2% silked, last year 0%, average of 2%. Many corn borer reports in the west central, central and southwest districts. Oats were 86% headed, 85% last year, average 90%. Blueberries reported ready in the north, raspberries in the south. Cherries were about ready for harvesting. Soil moisture 0% short, 68% adequate, 32% surplus with many puddles.

WYOMING: Most temperatures above normal. Below normal precipitation most areas. Topsoil moisture short 75% State. Days suitable for fieldwork: 7.0. Winter wheat: 55% headed, 40% turning color. Last year, 40% headed, 50% turning color. Barley: 20% boot, 75% headed. Last year, 26% boot, 51% headed. Spring wheat: 25% boot, 65% headed. Last year, 30% boot, 58% headed. Oats: 25% boot, 65% headed. Last year, 30% boot, 65% headed. Alfalfa: first cutting 70% complete. Other hay harvest 30% complete. Most crops fair to mostly good condition. Stock water supplies adequate.

TROPICAL WEATHER

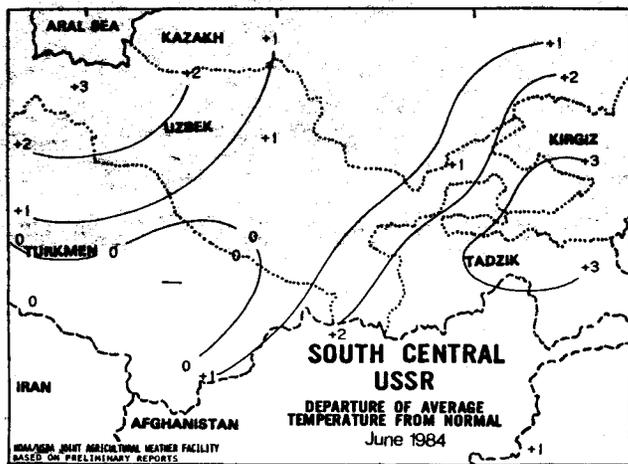
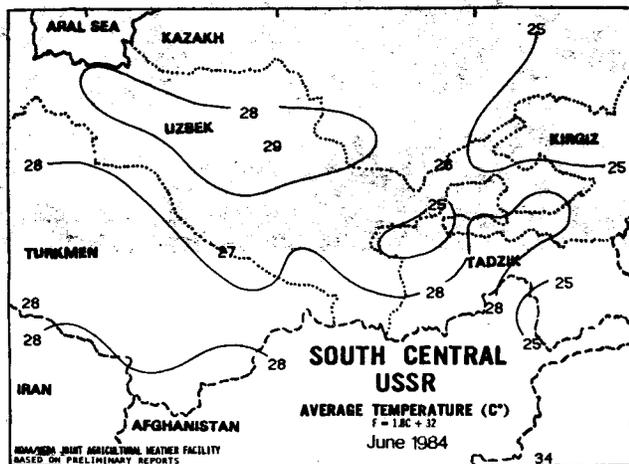
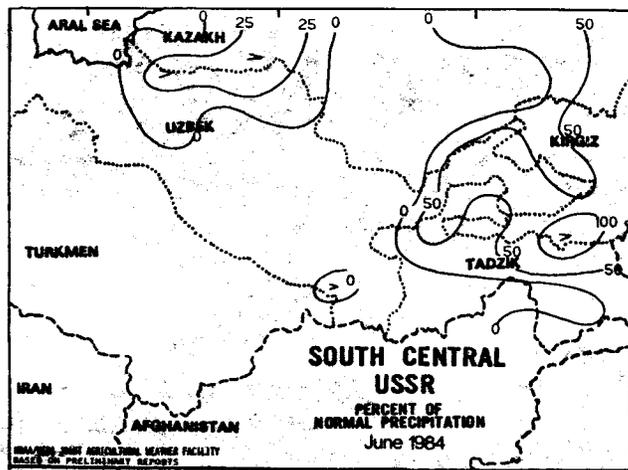
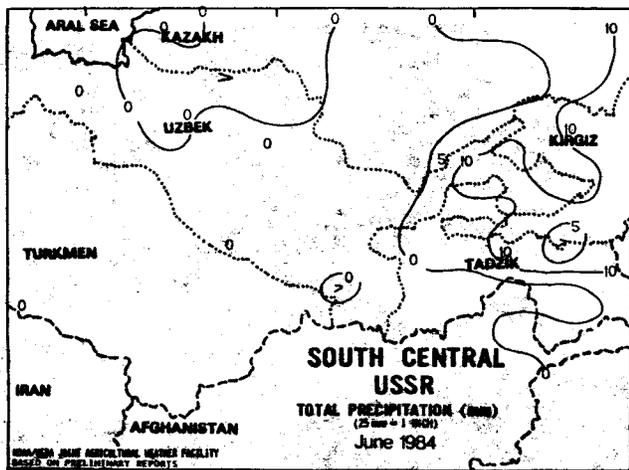
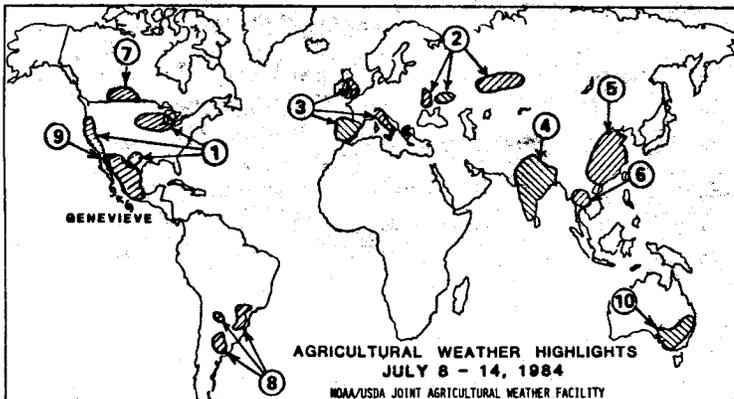


International Weather and Crop Summary

July 8 to 14

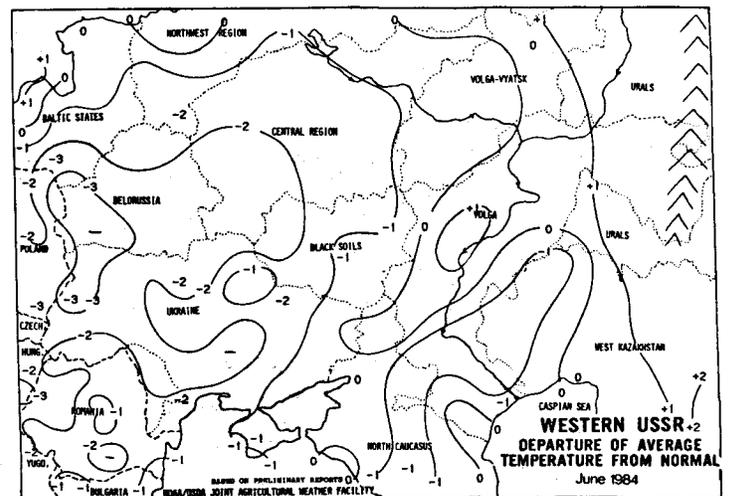
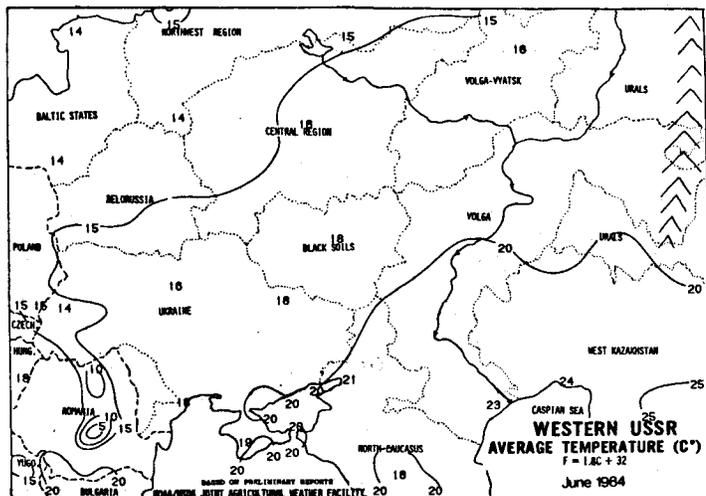
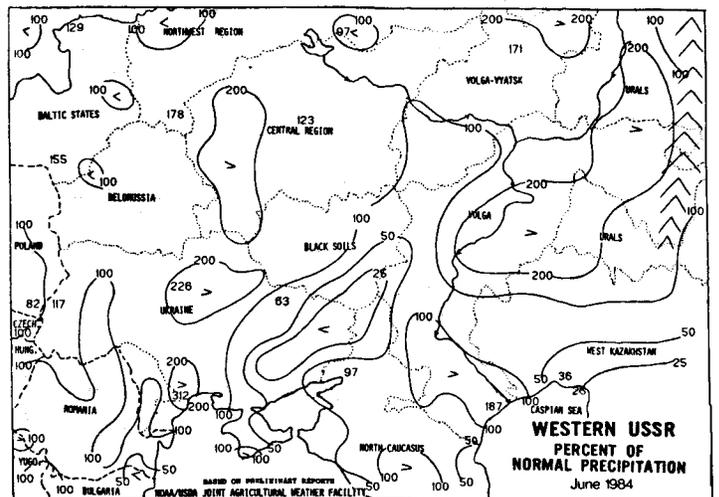
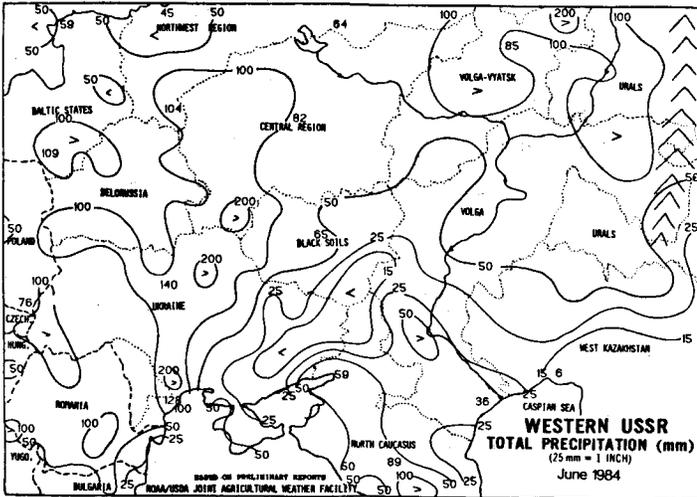
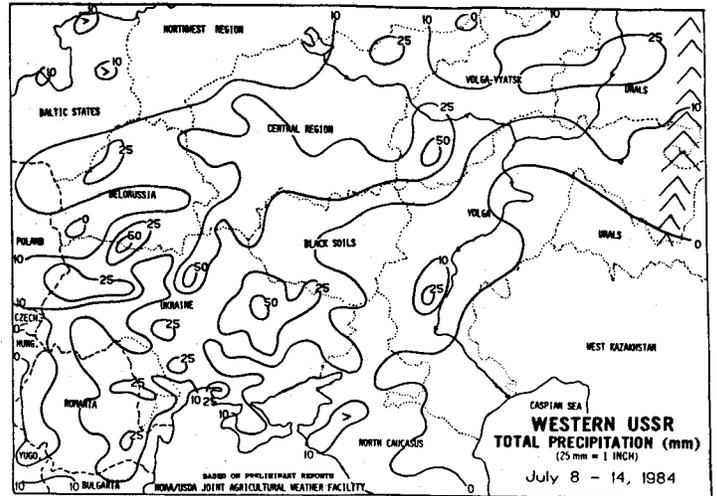
HIGHLIGHTS:

1. UNITED STATES ... Excessive wetness continues over parts of the western Corn Belt while drying plagues the eastern section. The heat wave over the west coast accelerates crop development. Drought continues over central Texas.
2. USSR ... Light showers benefit crops in the eastern Ukraine. Wet weather continues to slow crop maturity in the central Ukraine. In the New Lands, hot, dry weather in the south stresses wheat in the moisture-sensitive heading and flowering stages.
3. EUROPE ... Dry weather aids harvesting in Mediterranean crop areas. Light showers relieve dryness somewhat in England.
4. SOUTH ASIA ... Monsoon activity is adequate over much of the region. Dry weather persists in the cotton and groundnut regions.
5. EASTERN ASIA ... Sunny weather favors rice in the south, while rains maintain good moisture across the north.
6. SOUTHEAST ASIA ... Widespread rains benefit corn and rice in the reproductive stages.
7. CANADA ... Unfavorable wetness returns to the northern wheat area, while persistent dryness stresses the southern wheat belt.
8. SOUTH AMERICA ... Showers continue to hamper wheat development in southern Brazil. Rain is needed for wheat planting in western Argentina.
9. MEXICO ... Timely, beneficial rains continue across the southern Plateau corn belt and most northwestern watersheds.
10. AUSTRALIA ... Rain improves conditions for wheat in Queensland, while mostly dry weather persists in the southeastern wheat area.

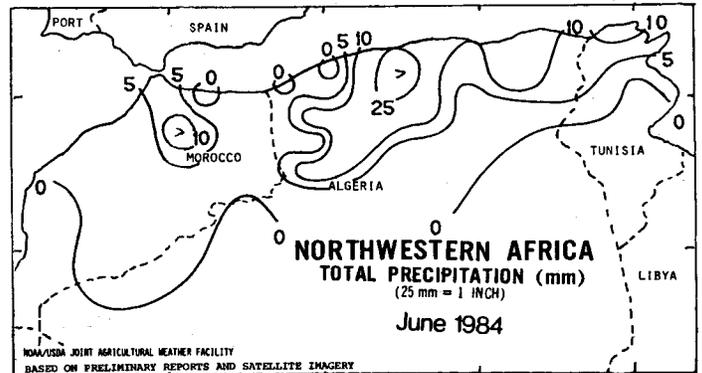
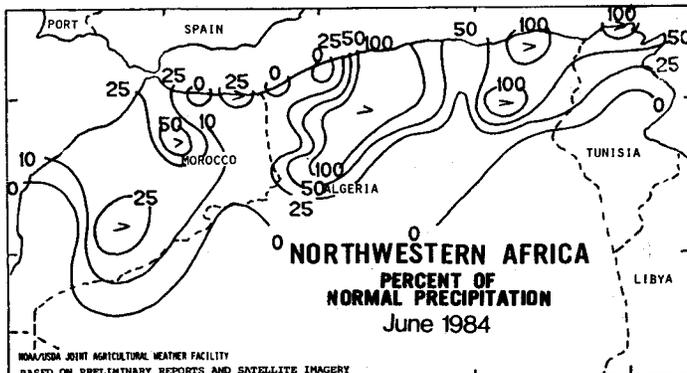
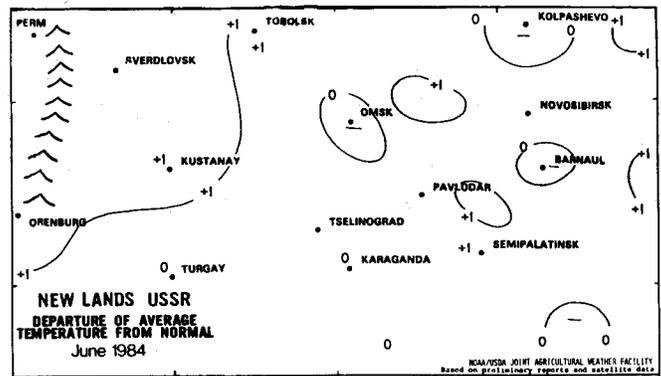
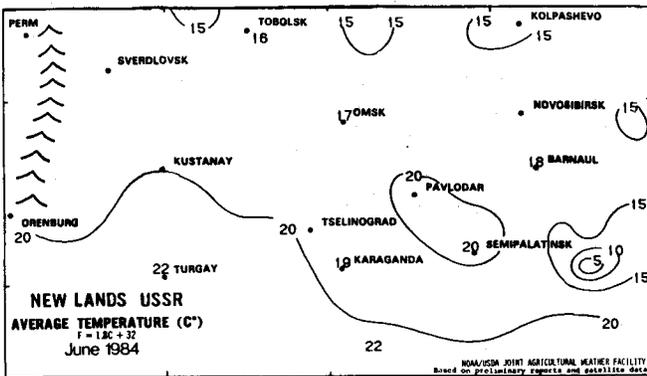
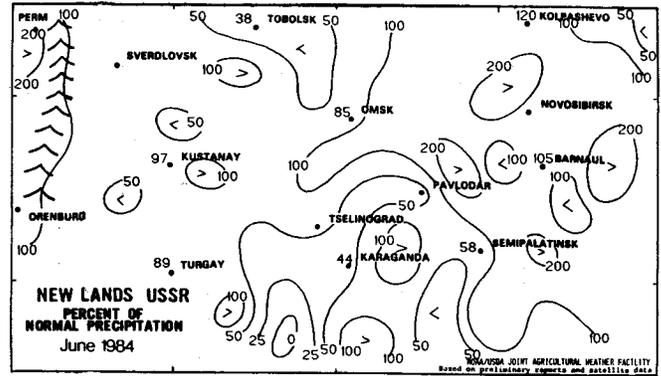
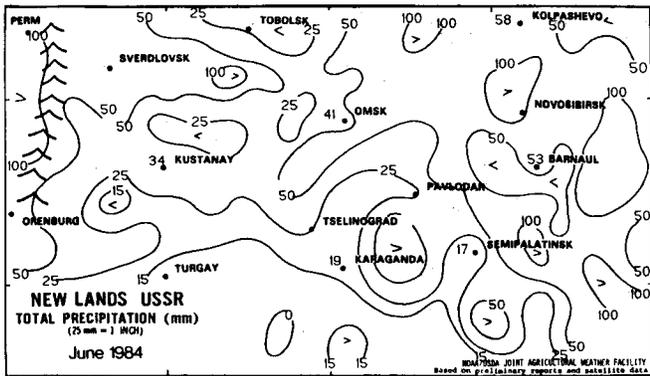
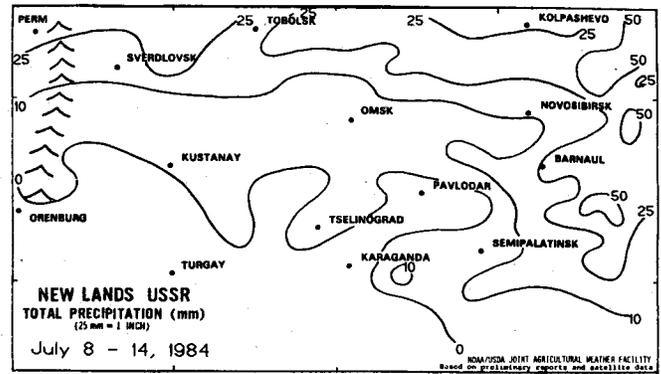


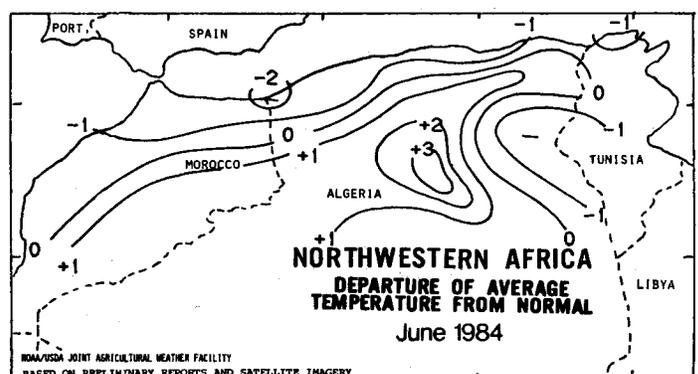
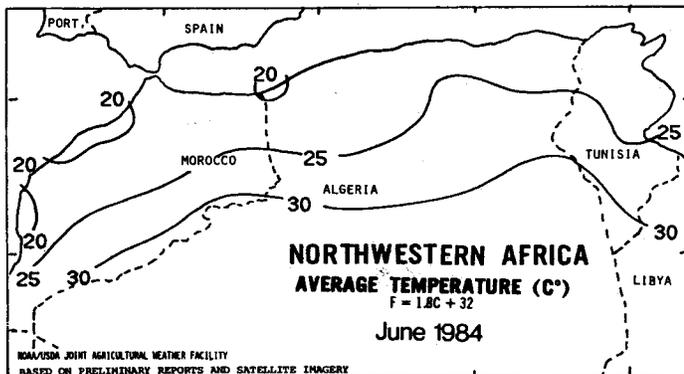
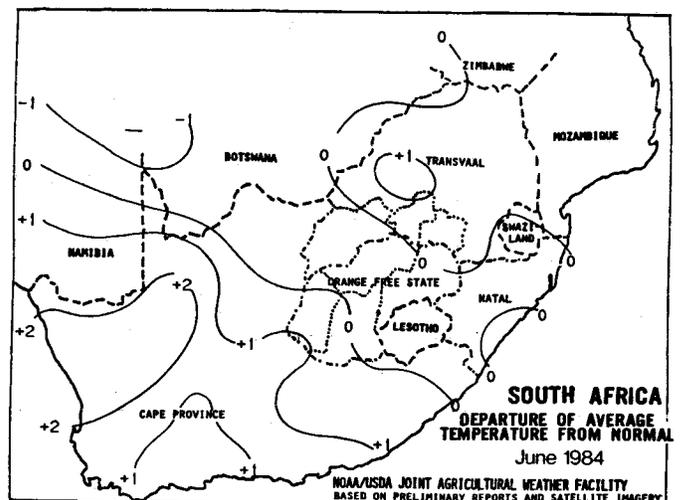
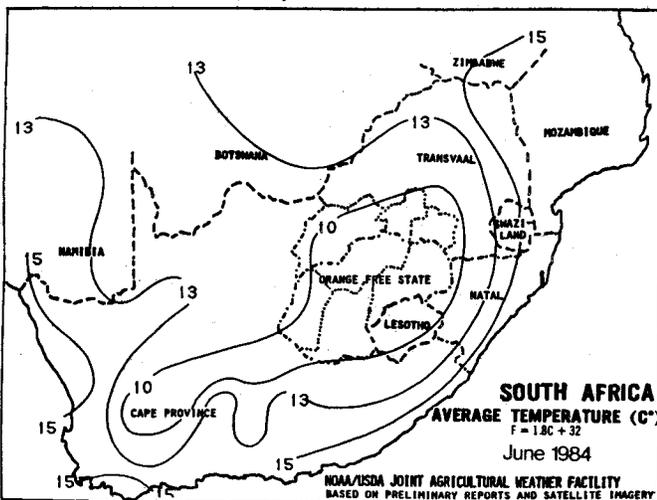
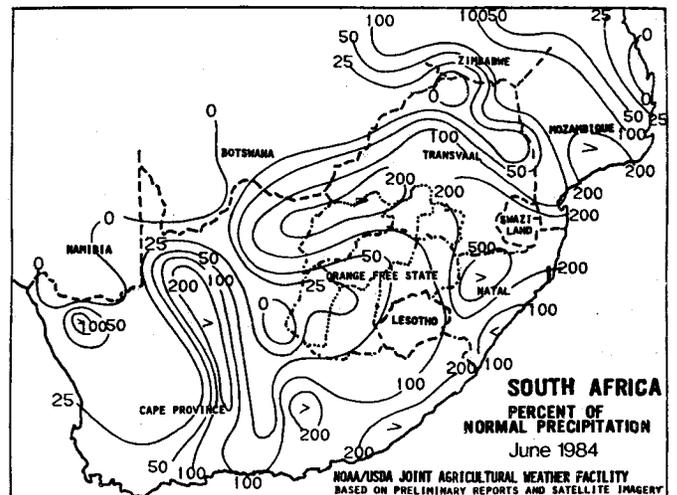
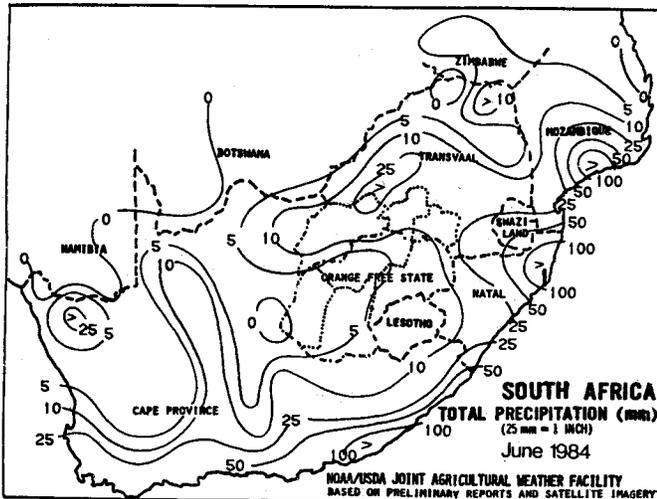
WESTERN USSR...Early week showers (25 to 50 mm) in the central Ukraine, and the western portion of the Central Region continued June's unseasonably heavy rainfall pattern. The excessive wetness and below normal temperatures in these areas slowed winter grain maturation and is likely producing delays in the early grain harvest. In June, below-normal precipitation occurred in a northeastward band from the eastern Ukraine, through the northern North Caucasus, eastern Black Soils, and into the western Volga Valley. The generally dry pattern reduced yield prospects for spring barley, which has progressed through the filling stage, and corn in the vegetative stage. The latest official USDA coarse grain estimate for the USSR is 1.58 metric tons/hectare, a 1-percent drop from last month and a 6-percent drop from last year.* Coarse grains also include winter rye and oats, which benefited from warm, wet weather during June. Recently, light showers benefited corn in the eastern Ukraine and North Caucasus, but additional showers are needed for growth.

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

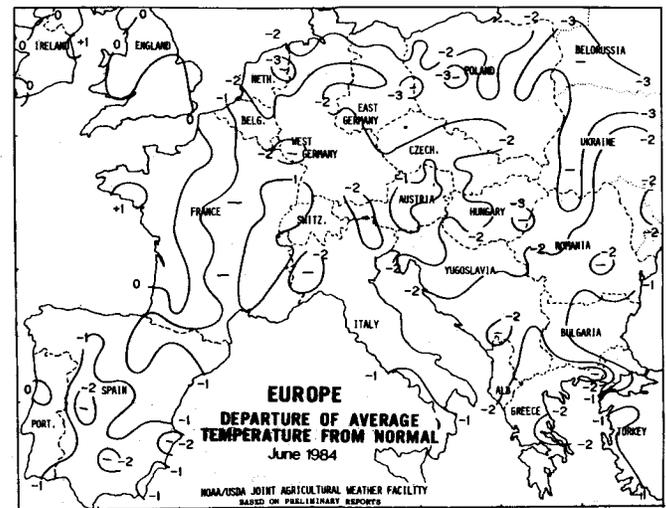
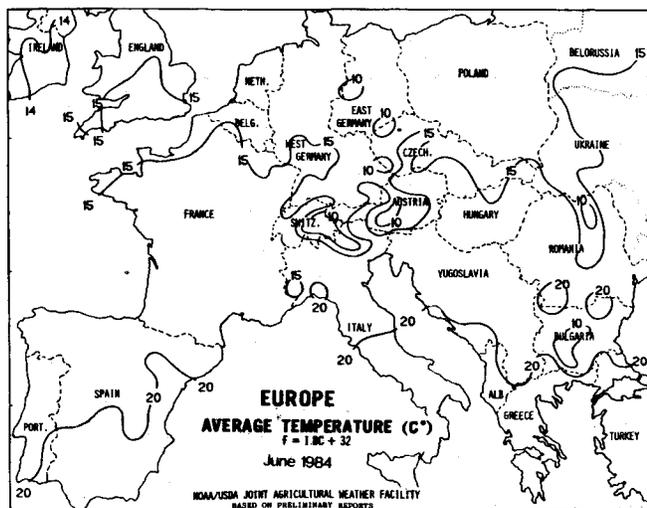
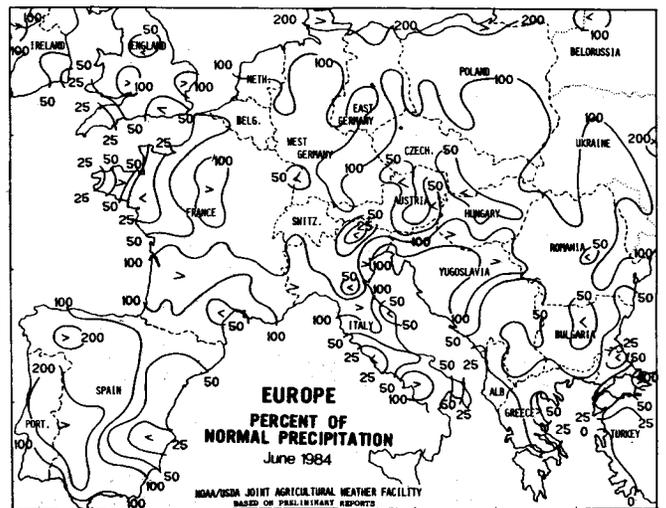
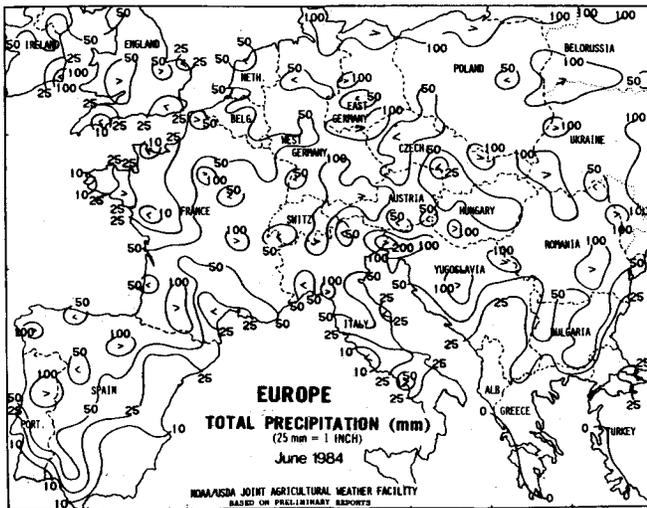
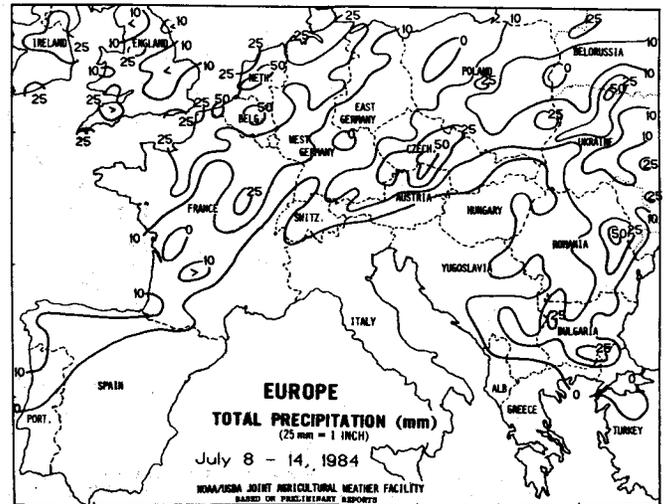


NEW LANDS... Hot, dry weather covered the southern Urals and central Kazakhstan this week, stressing spring wheat in the heading stage. Maximum temperatures by mid-week ranged from 35° C to 42° C, but light winds and lower nighttime temperatures (around 20° C), reduced the heat stress. Seasonal weather returned to the southern spring wheat areas by week's end but conditions remained dry. Elsewhere, light precipitation continued June's favorable precipitation pattern across the northern Urals and eastern spring wheat areas. However, the heaviest amount of precipitation fell north of the major grain producing areas.

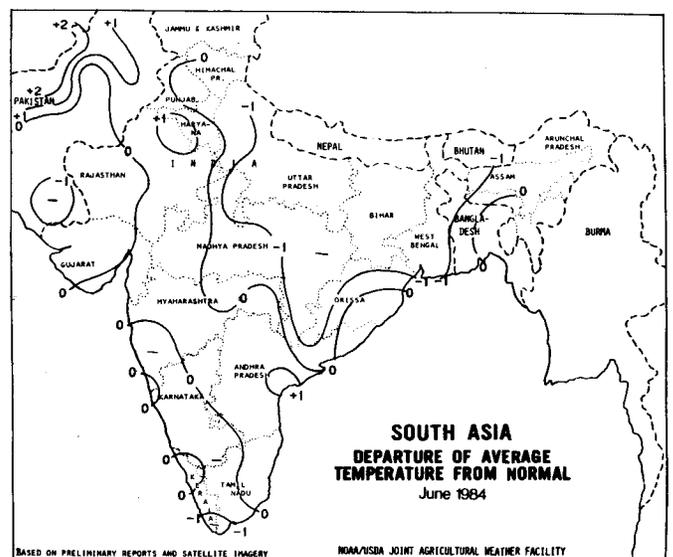
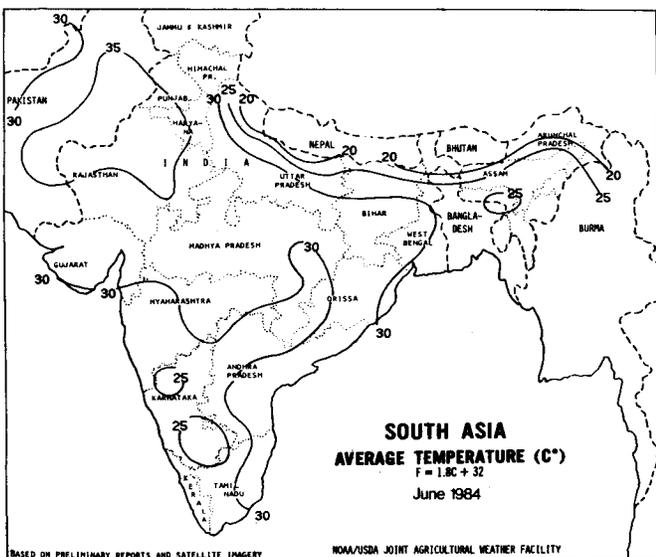
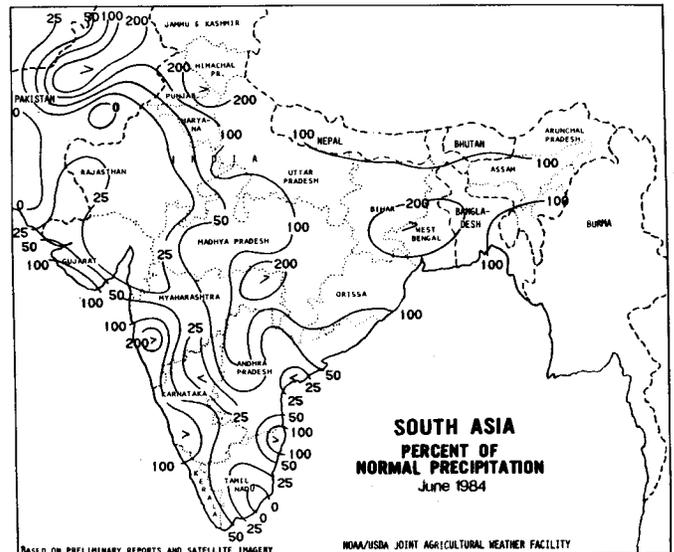
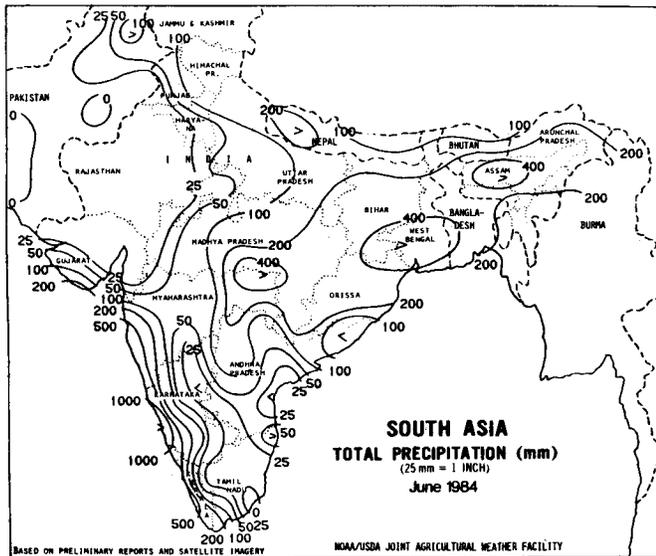
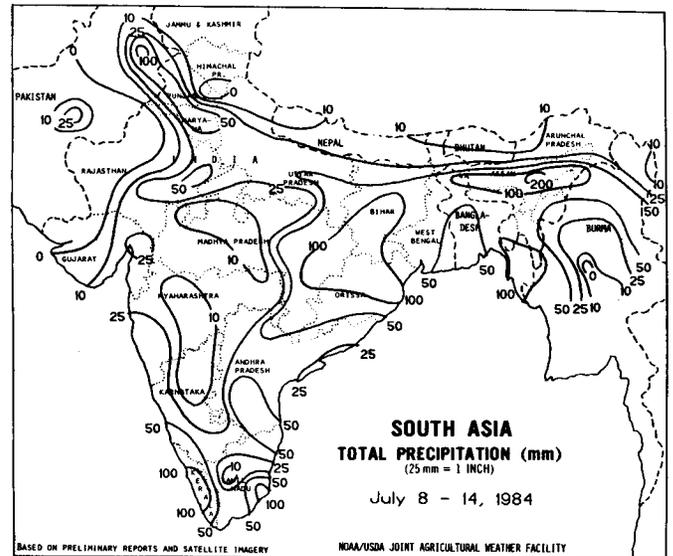




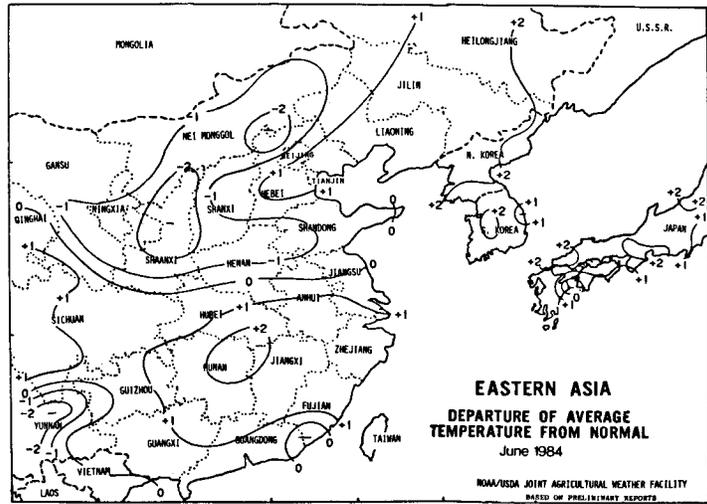
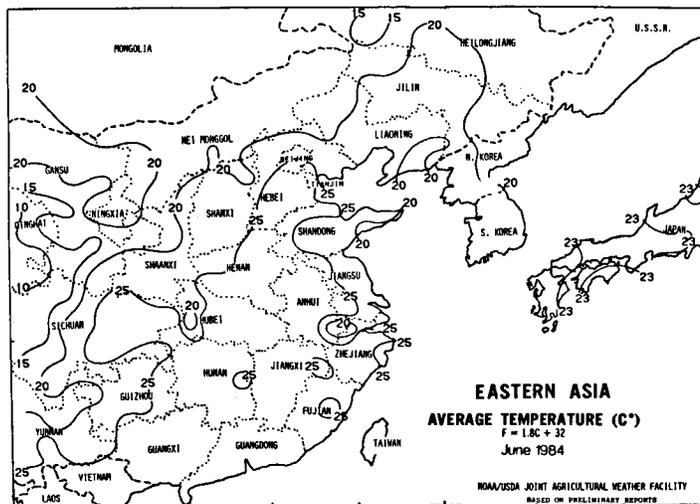
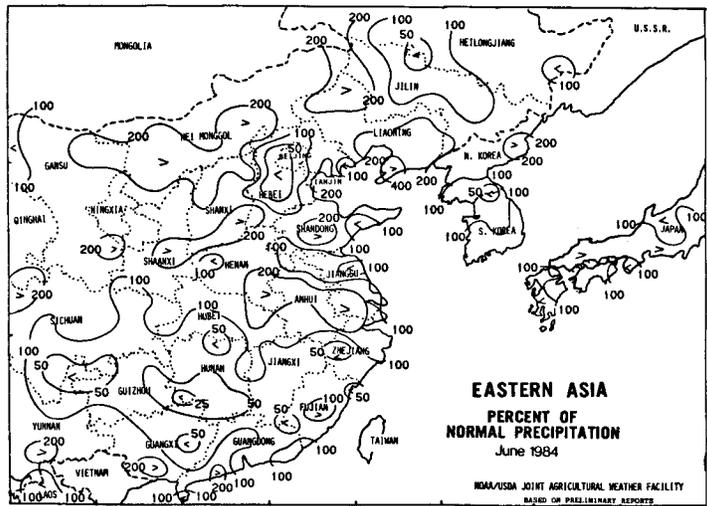
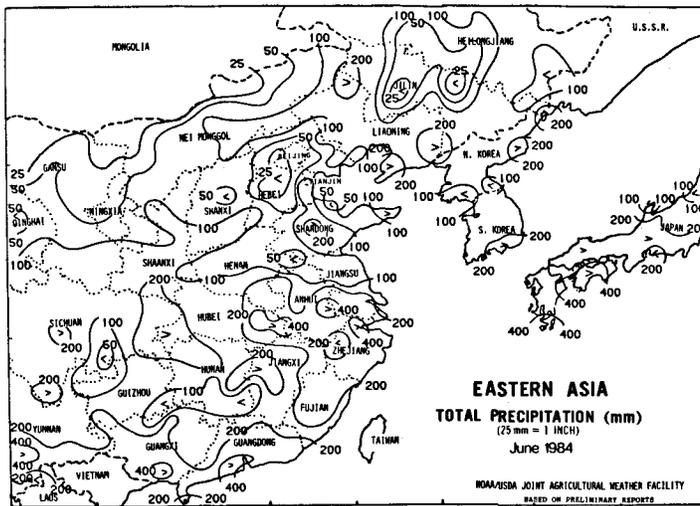
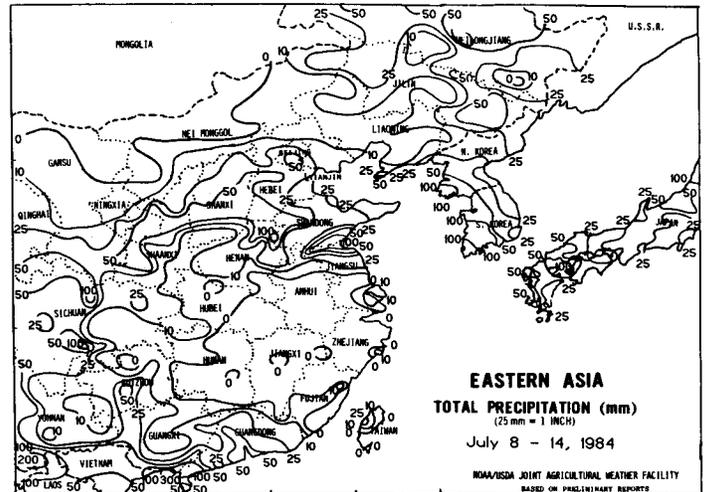
EUROPE...Dry weather over much of the Iberian Peninsula aided the wheat harvest, possibly delayed by above-normal precipitation during June. Crop areas in Ireland and England received beneficial light showers, relieving a below-normal precipitation pattern since June. Crop areas stretching northeastward from northern France, through East Germany and Czechoslovakia, into Poland received light showers, continuing June's mostly favorable precipitation pattern in these areas. However, conditions may have been too wet in some crop areas of West Germany during June. Wet weather continued in eastern Romania, while dry weather in western Romania aided winter grain maturation and harvest activity. Weekly temperatures were above normal in the west and near normal in the east.



SOUTH ASIA...Significant precipitation (greater than 50 mm) fell in southeastern India. The moisture was very beneficial because June rains were far below normal in Tamil Nadu and southern Andhra Pradesh. However, mostly dry conditions persisted through the cotton and groundnut region, continuing the June pattern which has hampered planting and early growth. Precipitation decreased along the west coast following torrential rain and flooding last week. Moderate to heavy rains (50-100 mm) favored planting and early growth of winter rice in eastern India. June precipitation was above normal in most of this area. Isolated storms improved moisture conditions for cotton, groundnuts, and rice in northern Uttar Pradesh, Haryana, and Punjab.

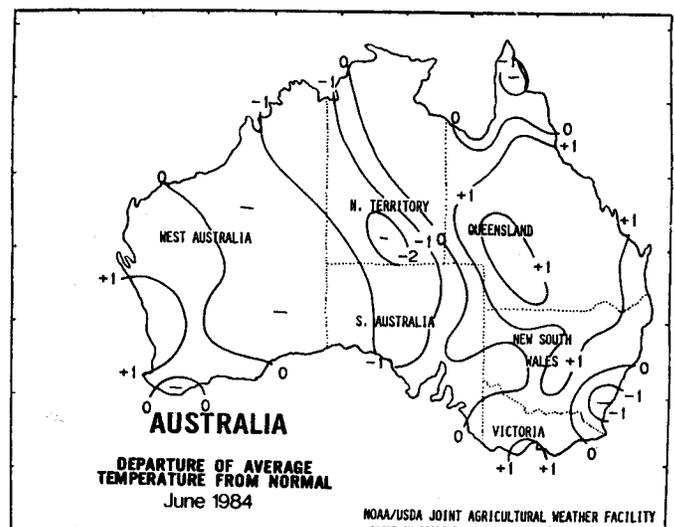
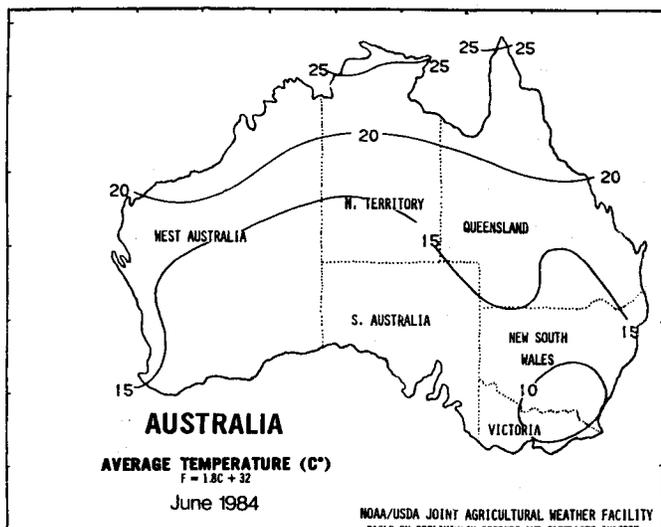
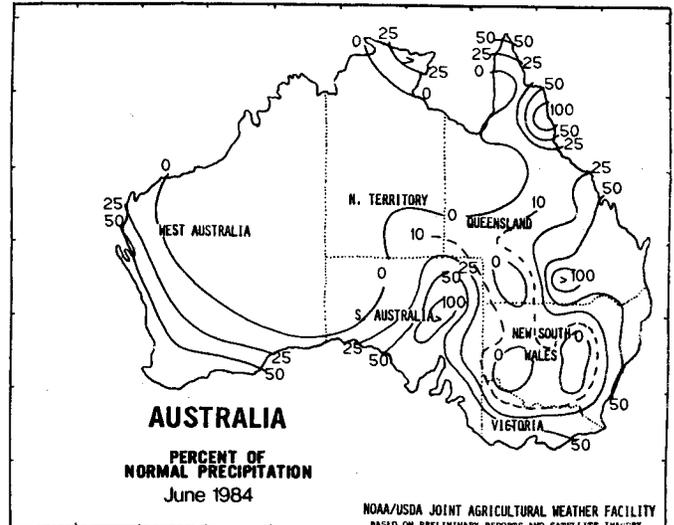
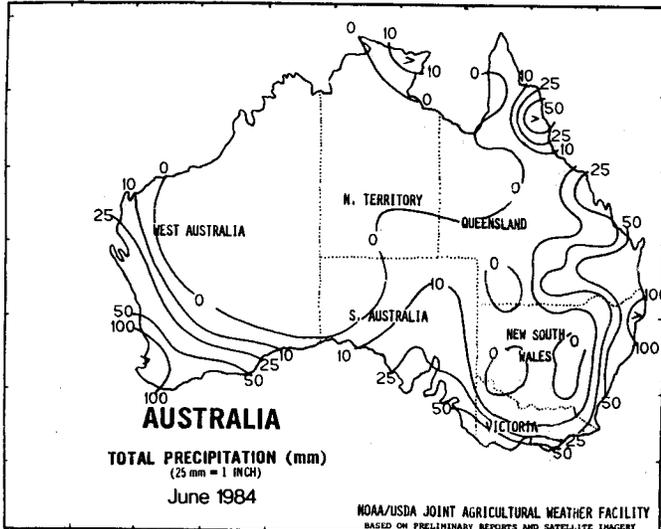
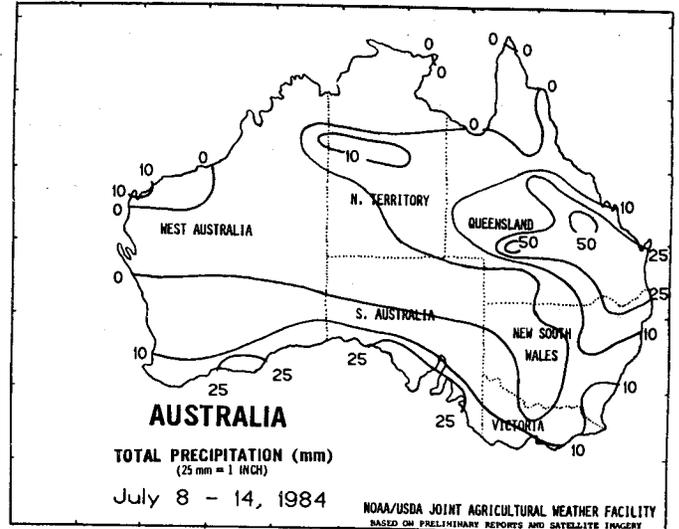


EASTERN ASIA... Precipitation decreased in eastern rice areas this week. June precipitation was mostly near normal for the rice region, excluding a dry pocket in southern Hunan. The recent clear weather, with mostly favorable moisture supplies, benefited intermediate rice in the heading stage. Early in the week, Tropical Storm Betty produced moderate to heavy rain in Guangdong and Guangxi with some localized flooding. Moderate rain fell across the North China Plain. June precipitation was above normal, slowing winter wheat harvesting but favoring cotton, corn, and soybeans in the reproductive stage. Below-normal temperatures have slowed crop development in the North China Plain. Total June precipitation was above normal in the southern Manchurian Valley. However, dry weather in the south since mid-June has been unfavorable for corn and soybeans, but recent weather has improved conditions in the northern Manchurian Valley.

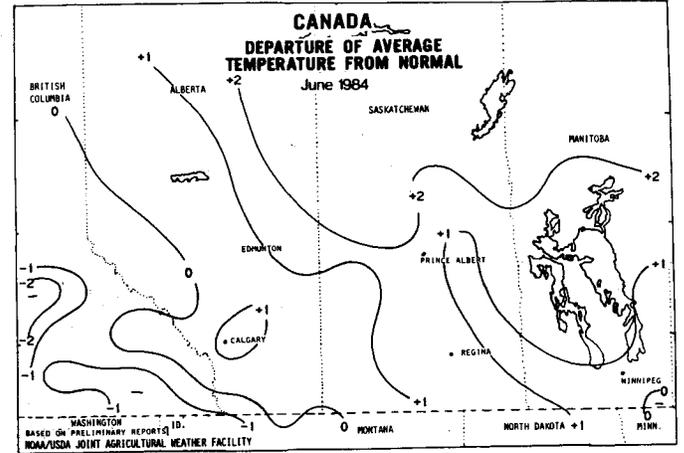
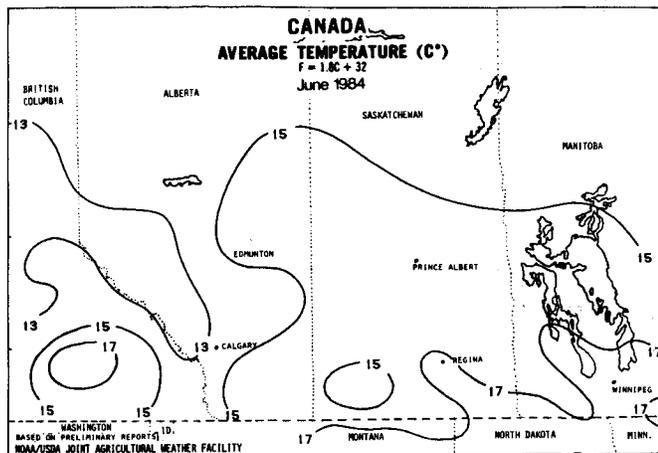
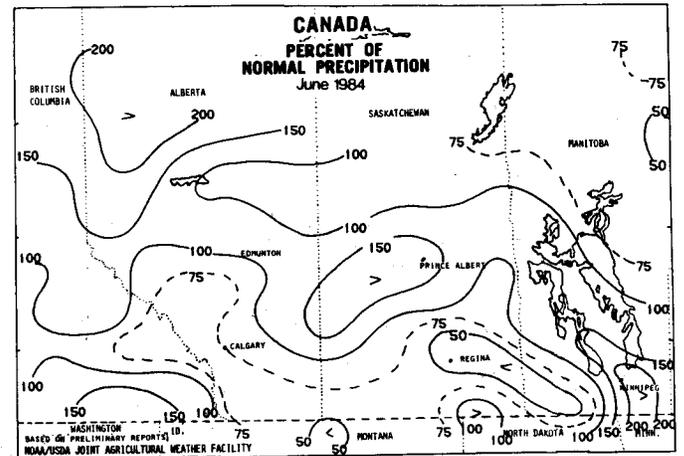
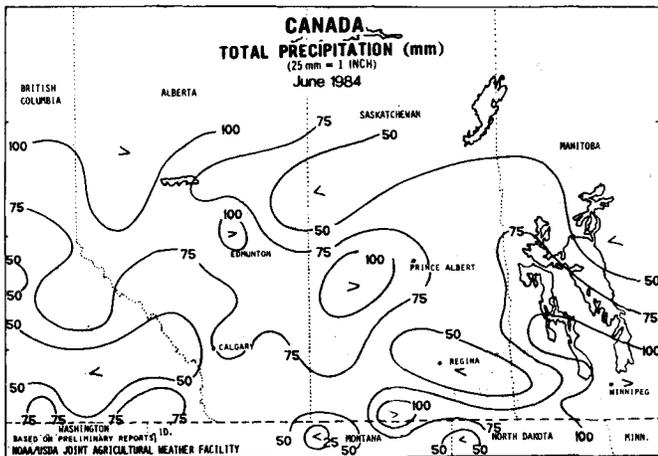
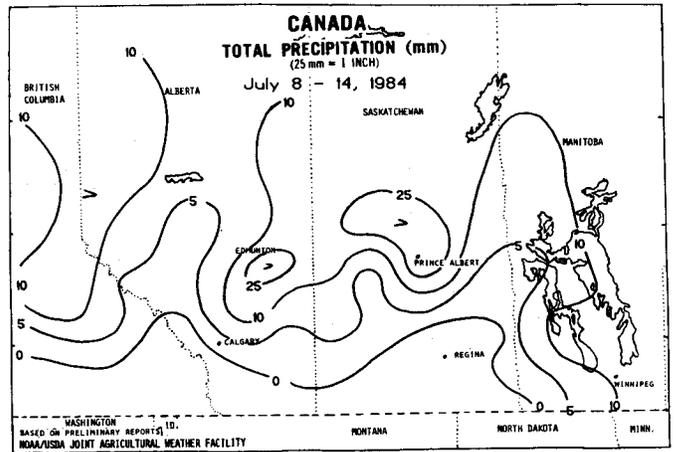


AUSTRALIA...Shower activity increased this week with the heaviest rains (up to 75 mm) falling in Queensland. Wheat in southeastern Queensland benefited from more than 25 mm of rain, after receiving only half of normal June precipitation. However, little or no precipitation fell in the wheat areas of New South Wales and Victoria, which normally produce about 50 percent of the country's wheat. Total June precipitation in this region was minimal. This delayed planting past the optimal mid-June date, and combined with seasonably cooling temperatures restricted crop establishment. Light to moderate rain in South and West Australia maintained adequate moisture conditions. The latest official USDA wheat yield estimate, based on early planting and weather conditions, is 1.25 metric tons per hectare, a 6-percent decrease from the last month's estimate.*

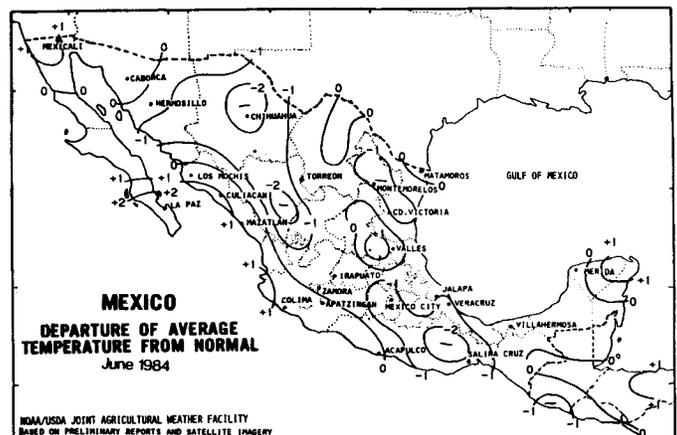
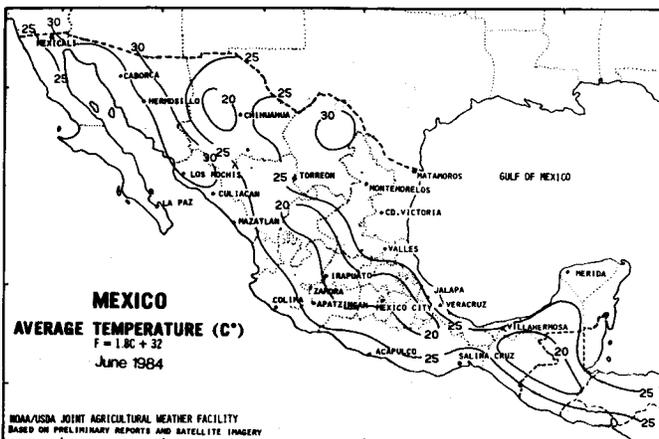
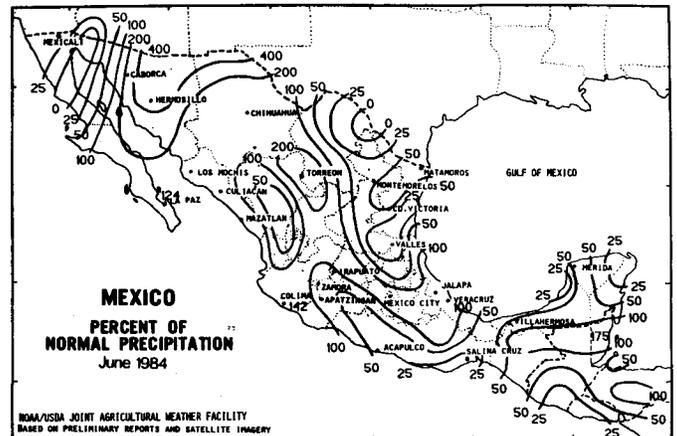
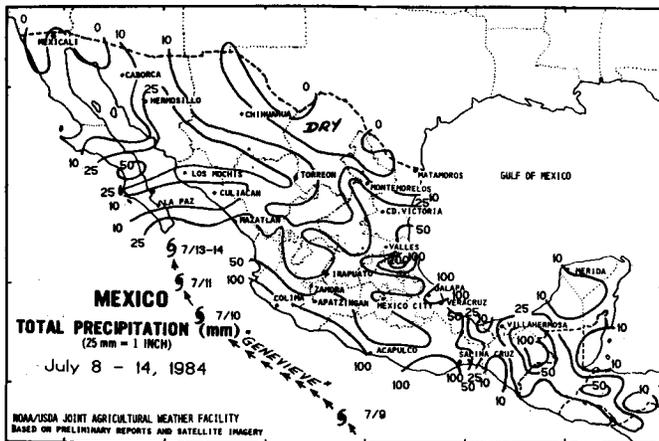
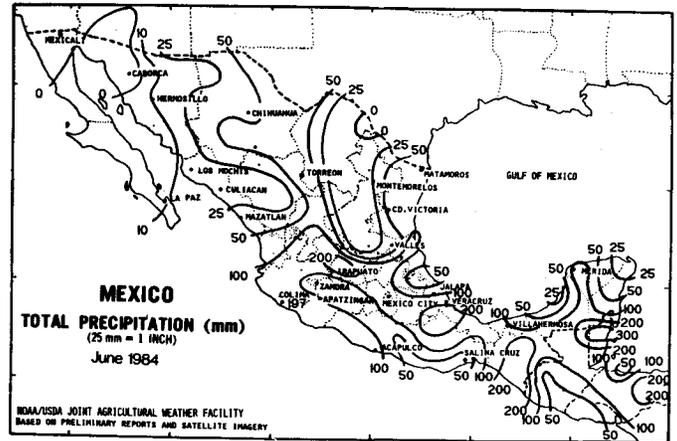
*For current area and production estimates see the July 10, 1984 USDA World Crop Production Report.



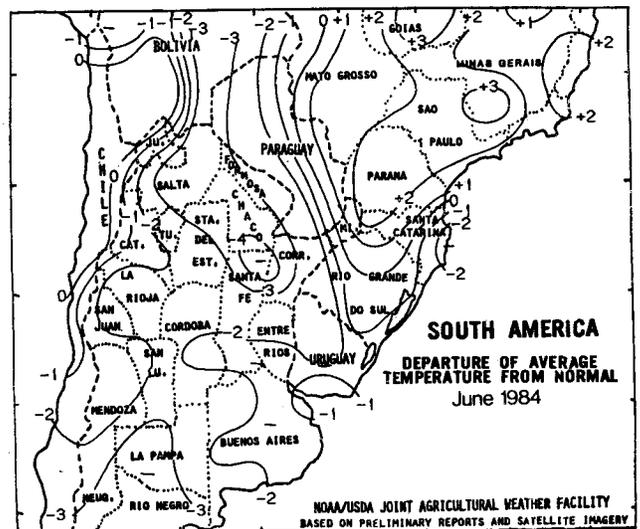
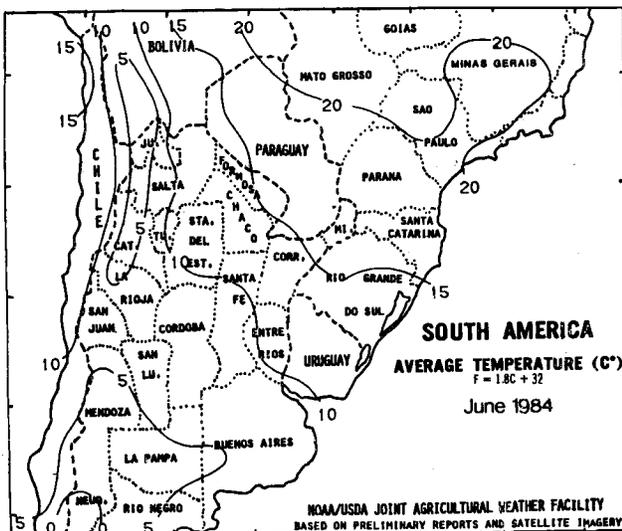
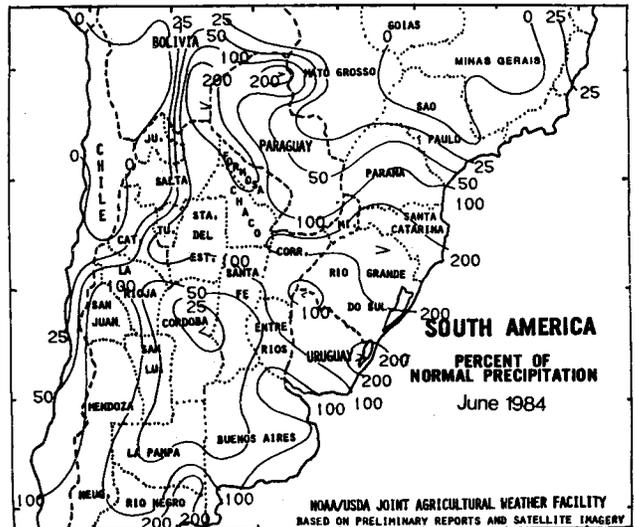
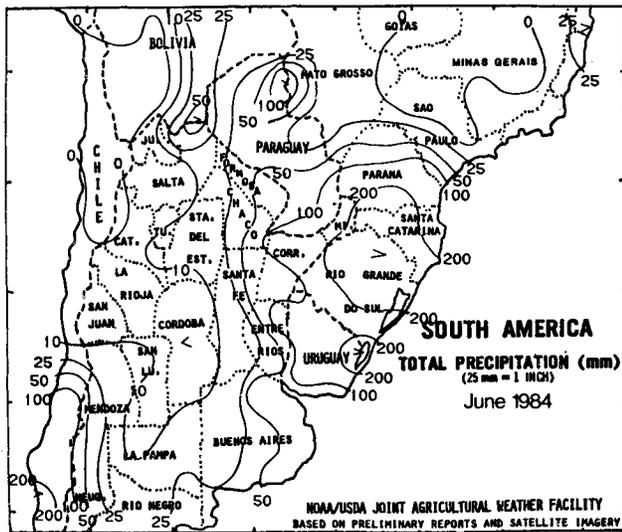
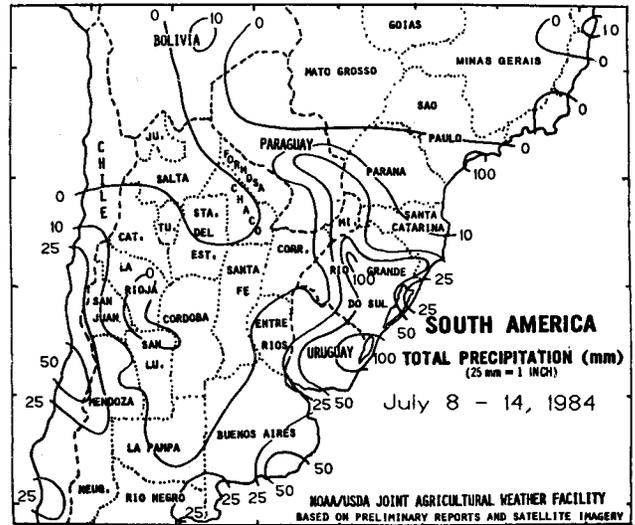
CANADA...Moderate precipitation (about 25 mm) returned to the northern wheat belt this week. Last week's dry weather favored wheat in northern Saskatchewan following persistent wetness in June. Earlier rains delayed planting and drier weather is needed to provide favorable growing conditions for wheat entering the heading stage. Favorably light showers maintained adequate moisture through the central wheat areas. Dry conditions prevailed across southern Alberta and Saskatchewan, continuing the below-normal June rainfall pattern. Above-normal temperatures have further reduced the limited soil moisture available for wheat in the heading stage.



MEXICO...Beneficial rains continued over most of the southern Plateau corn belt and northwestern mountain watersheds. Torrential rains, up to 190 mm, generated by Hurricane Genevieve flooded parts of the southern and southwestern coasts. In contrast, most of the northeast and north-central regions were generally hot and dry, stressing rangeland vegetation but aiding grain harvesting. This years rainy season was about 2 to 3 weeks later than usual over the southern Plateau, and June rains were lighter than normal in upper parts of the northwestern and northeastern corn belt. However, rains have been timely and adequate for corn since late June. Abnormally light rains fell over the northeast in June.



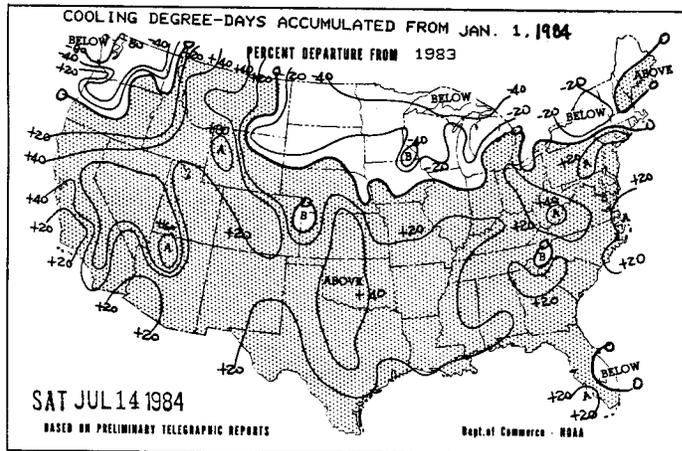
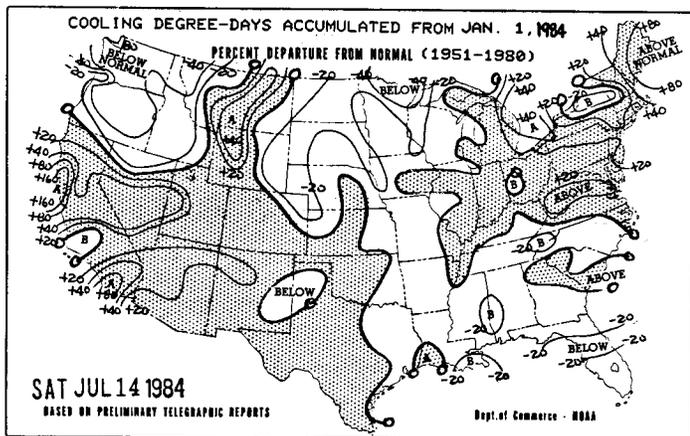
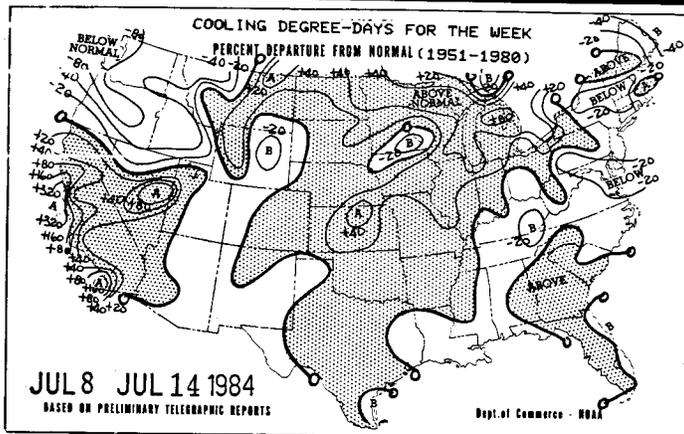
SOUTH AMERICA...Wet weather early in the week continued June's above-normal rainfall pattern in Brazil's wheat areas in Rio Grande do Sul and Santa Catarina. The continued excessive rains have kept fields saturated, creating unfavorable conditions for wheat establishment. Further north, light showers continued June's favorable rainfall pattern for wheat in Parana. Brazil's coffee harvest continued under favorably dry weather. In Argentina, light precipitation in southern Santa Fe and eastern Cordoba caused only minor delays in the soybean harvest which is nearing completion. Additional showers are needed in these areas for wheat planting, delayed by well-below normal precipitation since June. Wheat areas across much of Buenos Aires have received abundant planting rains. In Chile, heavy coastal rains (25 to 50 mm) produced local flooding.





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