

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

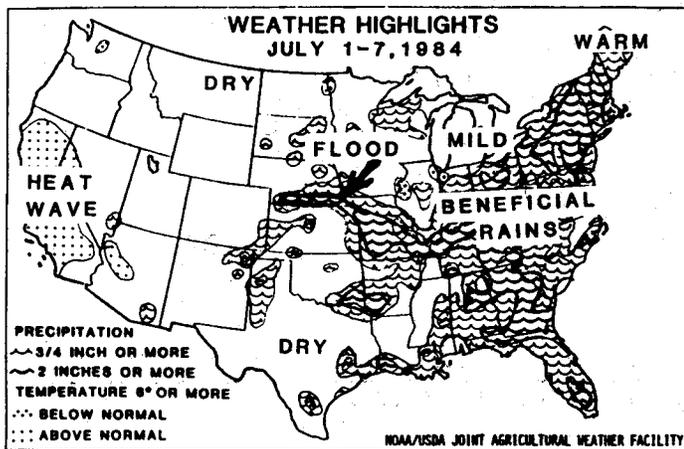
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July 10, 1984

National Weather Summary

July 1-7



Deluges produced up to 9 inches of rain at some points. Beneficial showers fell in parts of the eastern Corn Belt and throughout the central Plains.

WEDNESDAY...Moderate to heavy showers and thunderstorms fell from central Missouri through most of the Ohio Valley and Ohio. Another line reached from central Pennsylvania to northern Vermont. Lighter showers and thunderstorms were scattered through the central and northern Plains, the Tennessee Valley, and the mid-Atlantic States.

THURSDAY...Showers and thunderstorms covered most of the East from the eastern part of the Plains to the east coast. Heavy showers fell in some areas from central Alabama to New England. The heat wave continued in California and spread through more of the Southwest.

FRIDAY...Rainy weather continued in the East. Violent thunderstorms produced hail and some heavy downpours from eastern Tennessee into western New England. Storms were more scattered from southern Missouri through the Ohio Valley. Unusually cool weather was pushing through the Great Lakes.

SATURDAY...Heavy showers fell along the east coast and caused flooding in parts of New England. Cooler weather enveloped much of the East, but the heat wave continued in the Southwest with some slight relief in northern California. Showers were scattered in the Southeast and from Missouri through the Northern Plains.

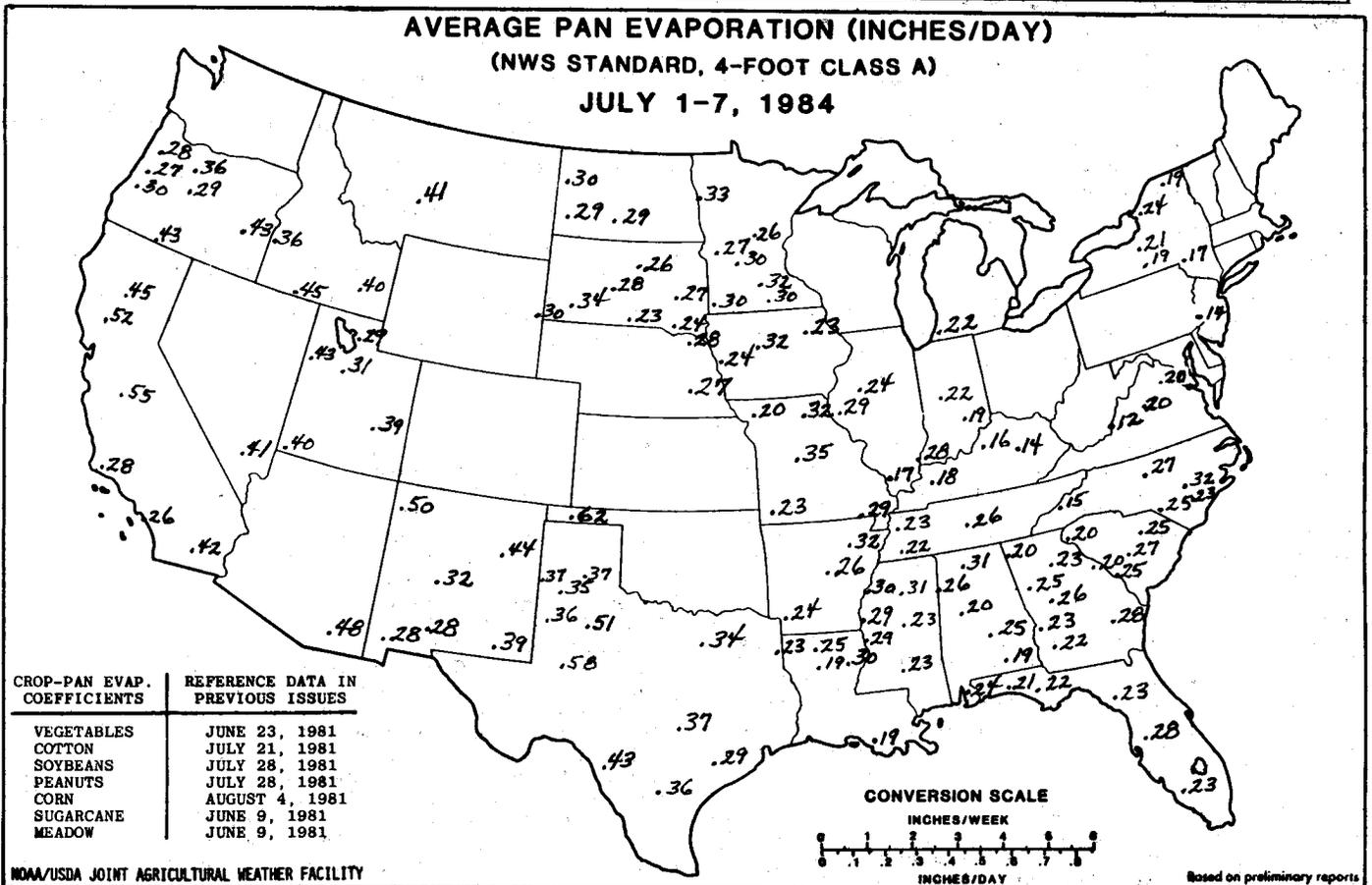
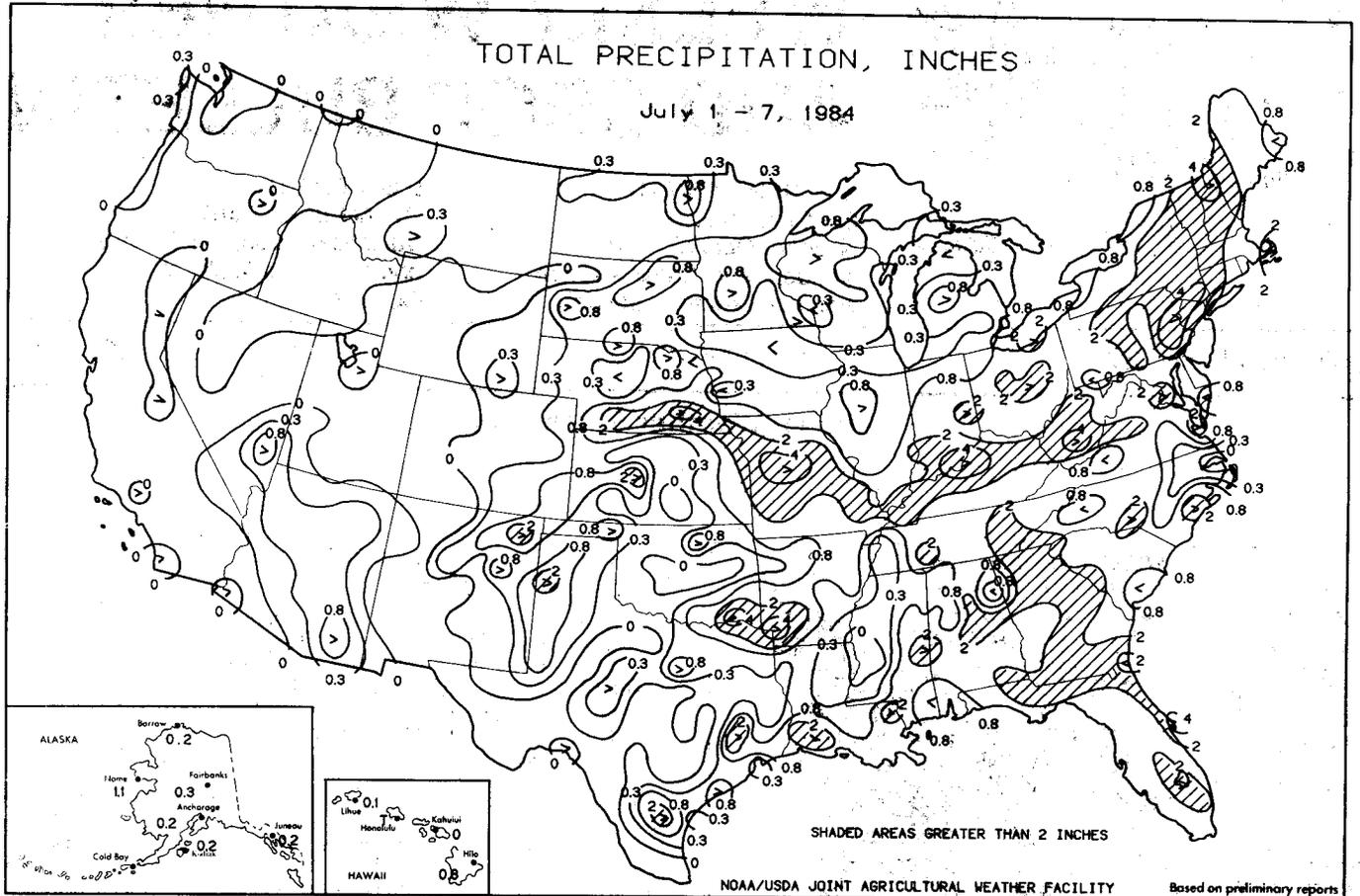
HIGHLIGHTS: Showers and thunderstorms covered nearly all of the Plains, but the least amounts of rain fell in the driest areas of central Texas and Oklahoma. Violent thunderstorms produced up to 9 inches of rain along the lower Missouri Valley from southeastern Nebraska into Missouri. Very heavy amounts of rain fell south of the Ohio River in Kentucky and West Virginia, and also in parts of New England. Beneficial showers covered the Southeast, the eastern Corn Belt, and western Texas. A heat wave persisted all week through California and spread from the Southwest into the Plateau region.

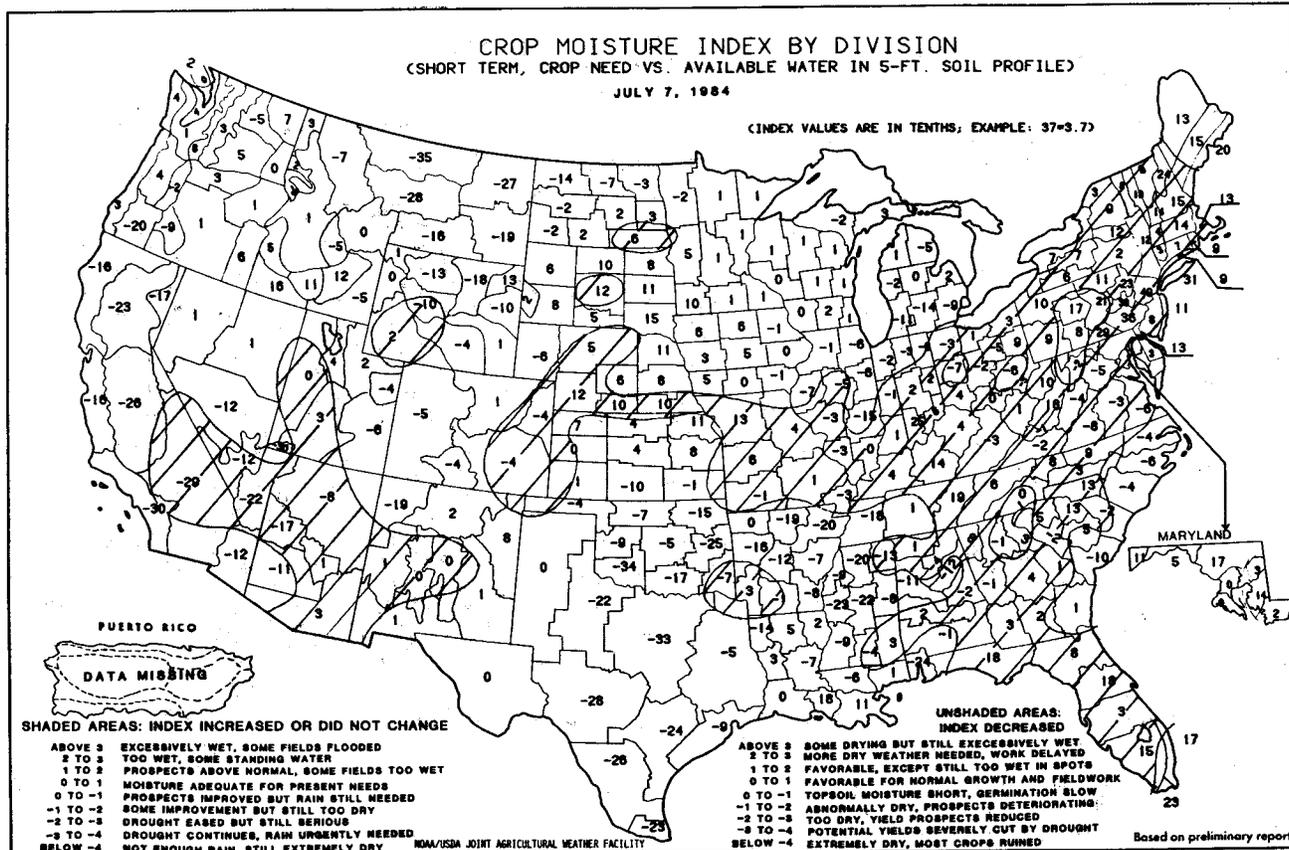
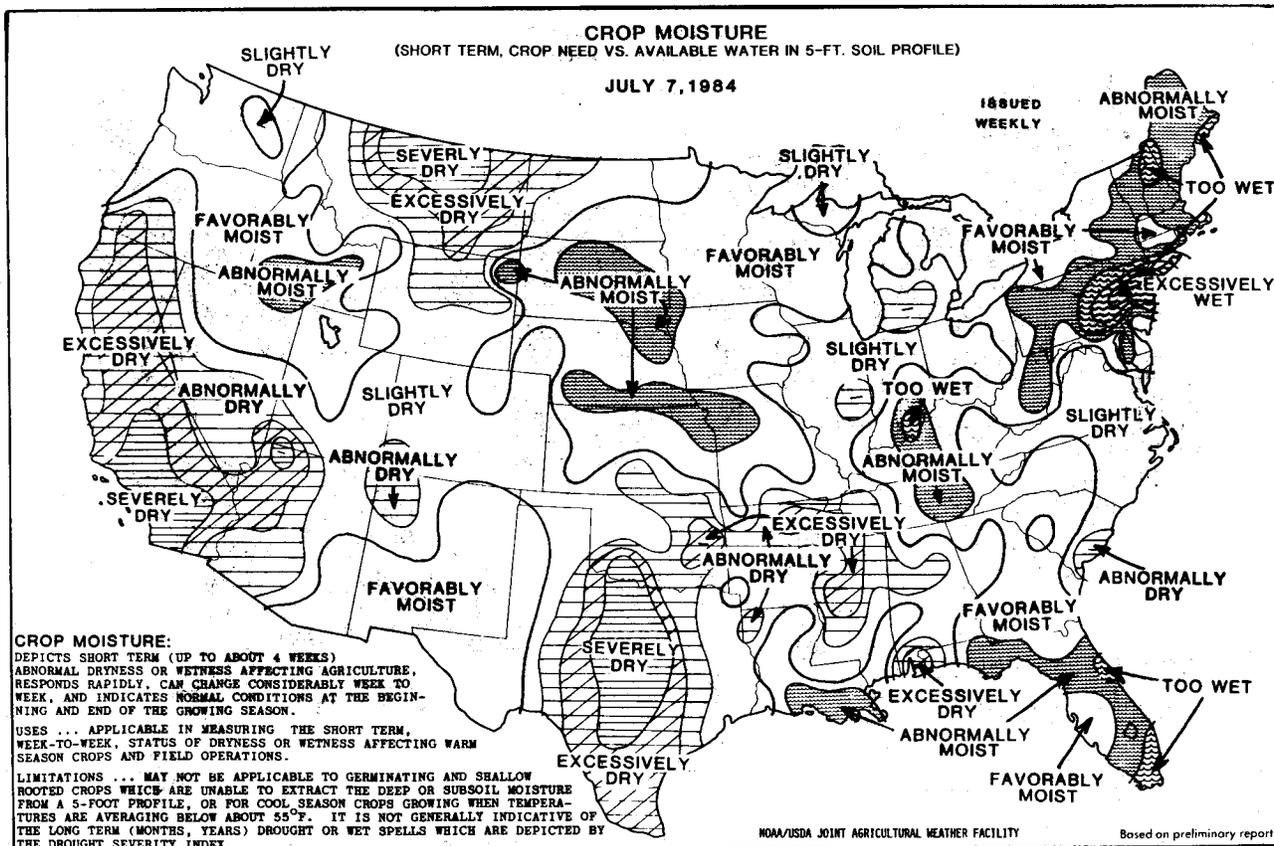
SUNDAY...Showers and thunderstorms covered most of the east coast States to southern New England and all along the gulf coast. Some heavy rain fell along a line from western Florida to central South Carolina, and from northeastern Pennsylvania through southern New York. A line of light showers developed from the Texas High Plains to eastern South Dakota.

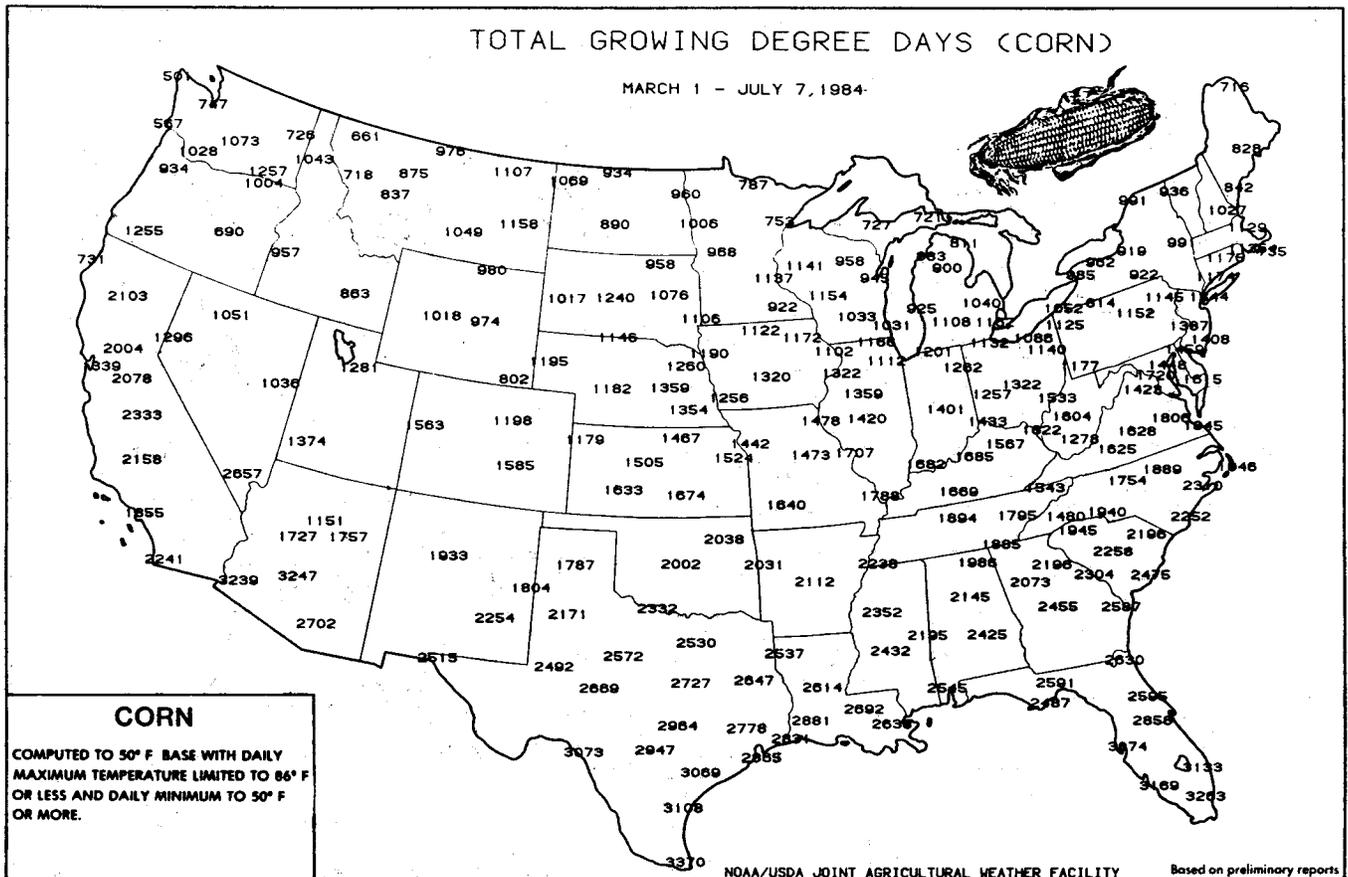
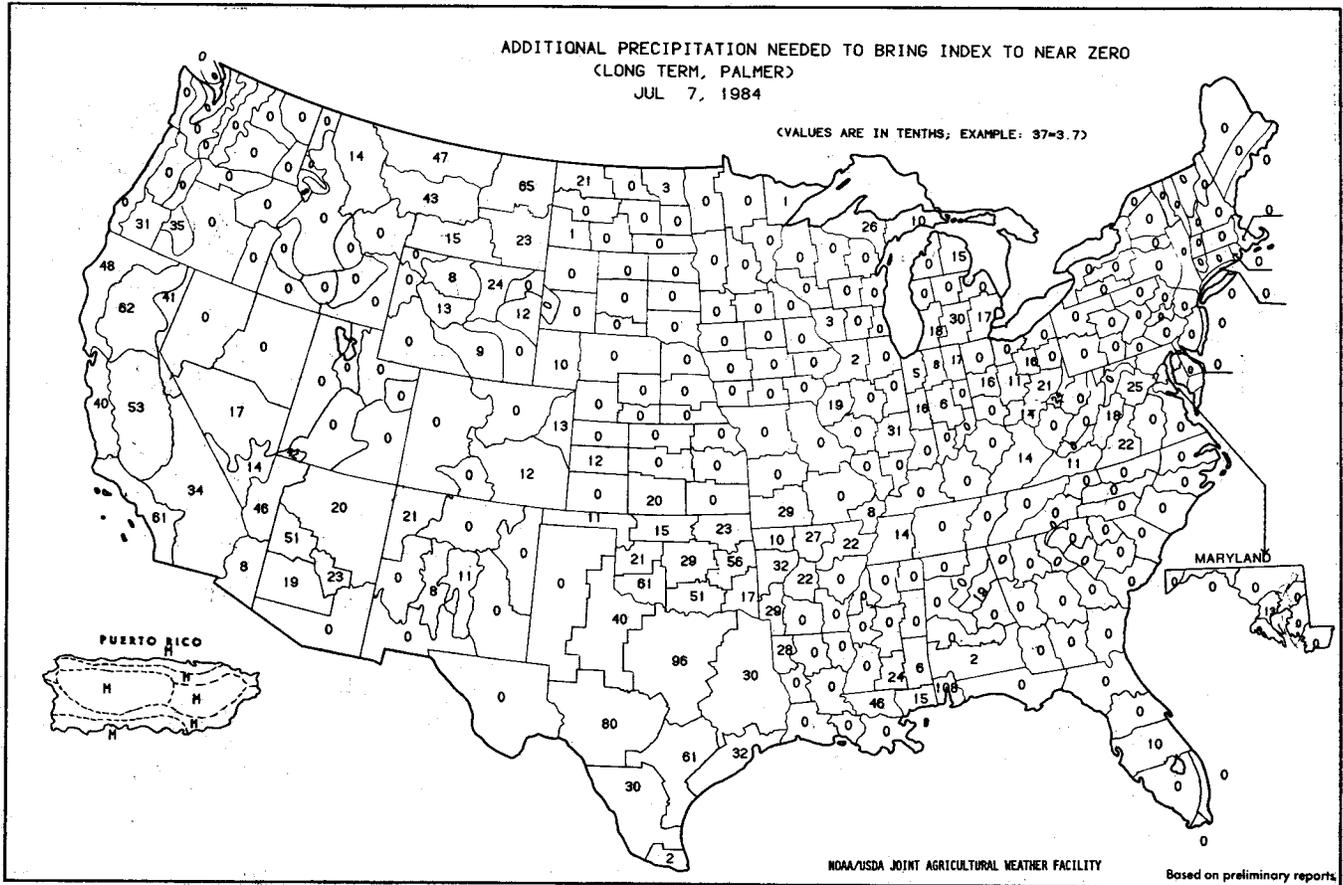
MONDAY...The east coast States and Appalachian area continued to have occasional showers and thunderstorms with isolated, moderate rain. Light showers and thunderstorms were widely scattered along the gulf coast and in the Plains from central Texas into Minnesota. A heat wave was in progress through California. Some afternoon temperatures in northern California reached 112 degrees.

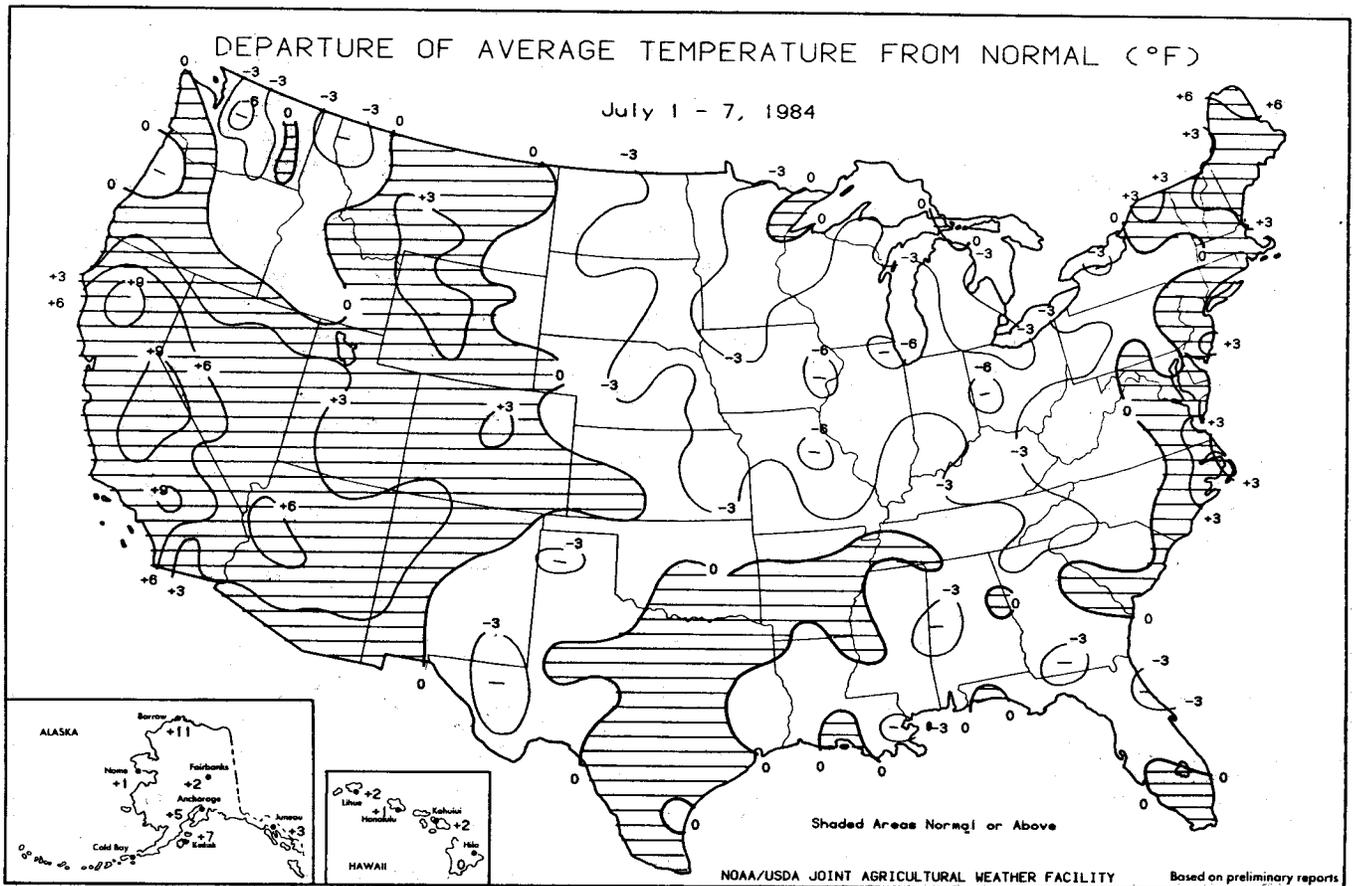
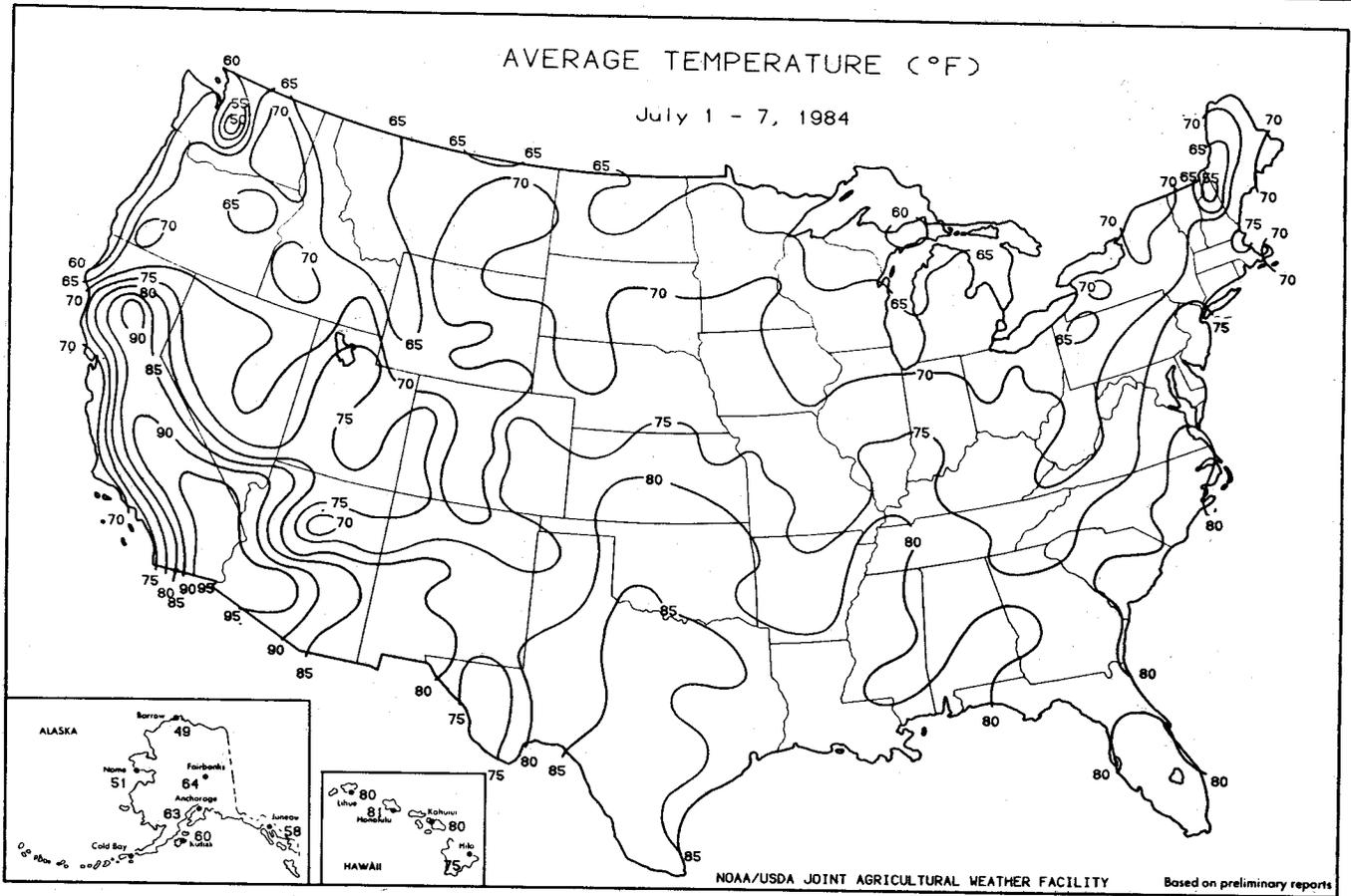
TUESDAY...Fireworks came a day early from southeastern Nebraska to central Missouri as intense thunderstorms caused severe weather and heavy downpours. The lower Missouri River was out of its banks again and flooded some of the replanted crops.

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Weather Data for the Week Ending JULY 7, 1984

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE JUNE 3	PCT. NORMAL SINCE JUNE 3	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE °F		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	90	67	92	61	78	-3	2.4	-1.5	1.4	4.0	80	28.2	84	61	2	2	4	2	
MOBILE	91	70	94	65	81	-1	1.3	-1.3	1.2	2.3	36	25.8	89	49	2	0	2	0	
MONTGOMERY	91	69	95	67	80	-1	1.5	-1.5	1.5	4.0	93	26.4	90	50	2	0	2	1	
AK ANCHORAGE	71	55	76	49	63	5	2.2	-1.2	2.2	1.7	121	5.8	138	69	40	0	0	1	
BARROW	57	40	71	34	50	11	1.2	-1.1	1.2	1.0	50	1.0	71	93	64	0	0	0	
FAIRBANKS	73	55	84	47	64	2	1.3	-1.1	2.2	1.7	44	4.1	111	84	40	0	0	2	
JUNEAU	66	49	79	42	58	2	1.2	-1.6	1.1	2.0	83	23.5	116	97	58	0	0	3	
KODIAK	67	52	78	49	60	7	1.2	-1.6	1.1	5.2	144	42.0	121	88	60	0	0	2	
NOME	56	45	70	43	51	1	1.1	-1.7	1.5	1.9	127	4.3	98	94	73	0	0	1	
AZ PHOENIX	108	85	112	81	96	5	2.2	-1.2	1.1	4.4	100	1.8	72	53	21	7	0	2	
PRESCOTT	91	61	100	58	78	5	1.7	-1.2	1.4	1.8	67	1.1	14	58	20	4	0	3	
TUCSON	101	74	105	67	87	1	1.3	-1.1	2.2	1.3	186	2.3	88	65	21	7	0	3	
YUMA	104	84	113	82	95	2	1.0	-1.0	1.0	0	+100	0	60	60	26	7	0	1	
AR FORT SMITH	92	69	98	62	81	0	1.4	-1.7	1.4	2.0	48	16.3	77	91	42	5	0	1	
LITTLE ROCK	92	71	97	65	82	1	1.5	-1.2	1.5	4.3	43	23.7	91	86	49	4	0	1	
CA BAKERSFIELD	105	73	107	66	89	5	0	-0	0	0	+100	1.2	29	49	19	7	0	0	
FURKA	65	50	69	48	58	2	0	-1.1	0	0	170	16.6	74	90	67	0	0	0	
FRESNO	108	75	111	68	91	12	0	-0	0	2.2	+100	2.0	29	53	18	7	0	0	
LOS ANGELES	73	63	75	62	68	0	0	-0	0	0	+100	1.7	20	87	65	0	0	0	
RED BLUFF	109	74	113	72	92	10	1.0	-0	1.1	2.0	4.2	32	57	16	7	0	0	0	
SACRAMENTO	100	64	107	61	92	7	1.0	-0	1.1	1.0	3.0	28	60	26	7	0	0	0	
SAN DIEGO	79	71	85	70	75	6	1.0	-0	1.0	0	+100	1.2	19	89	68	0	0	1	
SAN FRANCISCO	79	55	95	52	67	5	1.0	-0	1.0	0	0	4.0	31	88	63	1	0	0	
DENVER	90	60	95	55	75	3	1.1	-1.3	1.1	1.1	58	6.6	79	70	20	4	0	1	
GRAND JUNCTION	95	64	98	59	80	2	1.1	-1.1	1.1	1.6	370	5.3	147	45	15	7	0	0	
PUEBLO	94	62	99	59	78	2	1.3	-1.0	1.3	1.6	46	4.3	84	80	22	5	0	1	
CT BRIDGEPORT	78	67	84	63	73	0	2.5	-1.8	2.0	5.1	150	27.8	137	93	70	0	0	5	
HARTFORD	82	64	89	60	73	1	2.7	-2.0	2.0	3.7	95	30.9	139	98	61	0	0	5	
DC WASHINGTON	86	69	90	65	78	-1	1.5	-1.6	1.6	3.8	92	22.5	122	91	51	1	0	4	
FL APALACHICOLA	86	72	88	68	79	-2	1.2	-1.3	1.2	4.6	73	28.9	130	94	68	0	0	1	
DAYTONA BEACH	86	66	88	63	76	-5	2.6	-1.3	1.0	5.4	74	21.3	102	87	66	0	0	4	
JACKSONVILLE	89	69	91	65	79	-2	1.9	-1.5	1.9	5.8	88	22.9	94	96	56	4	0	2	
KEY WEST	87	78	88	75	82	-2	1.8	-1.2	1.4	7.9	130	24.4	159	80	63	0	0	4	
MIAMI	89	76	90	73	83	1	2.1	-1.6	1.9	9.7	98	32.4	131	91	57	5	0	5	
ORLANDO	89	70	91	68	80	-2	1.1	-1.7	1.6	6.4	72	22.5	102	100	58	3	0	4	
TALLAHASSEE	88	68	94	66	78	-3	3.4	-1.4	1.5	6.8	82	37.4	119	100	62	5	0	4	
TAMPA	88	73	90	70	80	-2	1.8	-1.2	1.1	5.0	76	15.3	80	93	59	2	0	5	
WEST PALM BEACH	87	72	89	71	80	-2	1.7	-1.1	1.7	7.5	84	32.4	126	94	65	0	0	3	
GA ATLANTA	85	68	89	67	77	-1	2.2	-1.2	1.8	2.9	67	12.6	120	88	53	0	0	3	
AUGUSTA	90	70	94	66	80	0	2.5	-1.5	2.4	3.2	70	31.6	132	90	48	5	0	4	
MACON	88	69	91	68	79	-2	1.9	-1.0	1.9	3.5	76	26.6	104	95	56	3	0	4	
SAVANNAH	91	71	93	66	81	0	1.9	-1.7	1.9	2.4	34	28.8	121	92	49	5	0	3	
HI HONO	82	68	84	65	75	0	1.8	-1.0	1.6	4.0	67	46.0	72	85	60	0	0	3	
HONOLULU	89	72	91	69	81	1	1.0	-1.1	1.0	0	0	4.8	36	83	42	4	0	1	
KAHULUI	88	72	91	65	80	2	0	-1.1	0	0	0	5.4	63	65	50	2	0	0	
LIHUE	85	76	85	74	80	2	1.1	-1.3	1.1	1.8	47	7.7	35	76	60	0	0	1	
MD ROYSE	88	55	96	47	72	-1	1.0	-1.1	1.4	156	7.3	100	61	18	2	0	1		
LEWISTON	87	55	94	48	71	-1	0	-1.2	0	1.6	107	6.9	96	64	21	2	0	0	
POCATO	88	51	94	40	70	0	1.0	-1.1	1.3	118	7.4	117	59	18	3	0	1		
IL CHICAGO	80	52	86	47	66	-6	2.2	-1.7	1.1	2.1	45	16.2	97	96	38	0	0	3	
MOLINE	82	57	87	48	70	-5	1.6	-1.6	1.4	4.4	83	18.9	102	90	39	0	0	4	
PEORIA	81	60	86	52	71	-5	1.2	-1.2	1.8	4.1	89	21.0	119	95	47	0	0	3	
QUINCY	85	62	90	55	73	-3	1.5	-1.5	1.3	4.4	92	20.5	111	93	43	1	0	3	
ROCKFORD	80	55	85	47	68	-5	1.0	-1.1	1.0	4.0	74	15.0	83	96	43	0	0	1	
SPRINGFIELD	82	60	91	51	71	-4	1.0	-1.0	1.0	3.1	72	21.5	122	88	44	1	0	3	
IN EVANSVILLE	85	66	93	59	76	-3	1.4	-1.5	1.0	4.7	118	24.1	107	88	48	1	0	3	
FORT WAYNE	81	60	89	48	70	-3	1.3	-1.4	1.2	1.0	65	16.1	90	93	47	0	0	4	
INDIANAPOLIS	82	61	90	55	72	-3	1.5	-1.5	1.4	3.1	65	18.7	93	98	44	1	0	3	
SOUTH BEND	79	59	86	52	69	-3	1.3	-1.6	1.2	3.4	75	16.3	87	80	37	0	0	0	
IA DES MOINES	83	61	89	53	72	-3	1.7	-1.1	1.5	8.4	183	23.9	150	89	44	0	0	2	
STOUC CITY	81	60	84	51	70	-4	1.5	-1.4	1.3	7.3	155	22.8	175	86	40	0	0	2	
WATERLOO	80	53	85	42	67	-5	2.2	-1.9	2.2	4.5	90	17.0	104	90	43	0	0	1	
KS CONCORDIA	89	66	94	60	77	-1	1.0	-1.8	1.0	4.0	85	18.1	132	86	44	4	0	1	
DODGE CITY	95	68	104	54	81	2	2.2	-1.5	1.1	2.1	60	11.7	105	76	33	5	0	3	
COOLAND	89	59	100	51	74	-1	1.6	-1.0	1.4	4.7	124	13.2	145	97	35	4	0	4	
TOPEKA	83	64	92	59	73	-5	1.0	-1.0	1.6	10.6	183	24.3	151	91	56	1	0	4	
WICHITA	93	67	99	61	80	-1	1.0	-1.0	1.0	2.3	49	16.4	116	93	36	5	0	1	
KY BOWLING GREEN	83	64	88	59	74	-4	2.0	-1.9	1.0	3.9	75	33.1	123	97	53	0	0	4	
LFXINGTON	81	62	86	56	71	-4	2.6	-1.5	1.4	4.8	96	24.4	99	91	50	0	0	3	
LOUISVILLE	84	65	91	58	74	-3	1.5	-1.6	1.4	6.0	140	24.9	106	83	45	1	0	3	
LA ALEXANDRIA	90	72	92	70	81	-2	1.1	-1.0	1.1	6.8	127	32.2	110	92	56	4	0	2	
BATON ROUGE	90	72	93	69	81	-1	1.4	-1.0	1.4	3.4	77	10.5	70	87	40	5	0	1	
LAKE CHARLES	89	73	92	69	81	-1	2.												

Weather Data for the Week Ending JULY 7, 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				
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE	
ME SHREVEPORT	93	77	96	69	83	0	0	-0.6	0.1	3.8	93	23.3	95	94	59	0	0	0	0	
ME CARIBOU	81	60	88	53	71	6	1.0	-0.1	0.7	6.0	150	21.5	135	94	59	0	0	0	0	
MD BALTIMORE	80	62	88	60	71	4	2.6	1.0	1.5	4.0	136	32.6	156	97	48	0	0	0	4	
MA BOSTON	85	71	88	67	78	2	1.1	-0.3	1.2	2.7	63	21.5	105	80	50	0	0	0	5	
MA CHATHAM	86	67	91	60	76	4	1.3	-0.7	1.2	2.6	81	36.4	156	94	60	0	0	0	2	
MI ALPENA	74	61	76	58	67	1	2.4	-1.8	1.2	5.4	169	30.1	130	11	1	0	0	0	1	
MI DETROIT	80	49	87	41	65	0	0	-0.6	0.1	2.8	74	11.7	83	99	39	0	0	0	3	
MI FLINT	82	56	90	44	69	-2	0	-0.5	0.1	0	23	12.0	81	88	39	0	0	0	1	
MI GRAND RAPIDS	81	54	88	47	68	-1	0	-0.3	0.4	1.1	29	11.7	81	92	36	0	0	0	2	
MI HOUGHTON LAKE	77	52	82	46	65	-2	0	-0.6	0.1	2.0	56	13.0	77	96	38	0	0	0	2	
MI LANSING	82	54	88	45	68	-3	0	-0.4	0.3	0.6	15	11.2	77	80	37	0	0	0	1	
MI MARQUETTE	74	48	83	43	61	-3	0	-0.3	0.3	0.6	15	11.2	77	80	37	0	0	0	1	
MI MUSKOGON	76	54	81	45	65	-4	0	-0.7	0.1	0.5	81	14.5	94	93	47	0	0	0	0	
MI SAULT STE. MARIE	75	49	85	42	62	0	0	-0.2	0.1	4.1	81	14.5	94	93	47	0	0	0	0	
MN AITKANDRIA	78	57	87	48	67	-2	0	-0.8	0.0	0.6	7.5	163	15.5	126	93	60	0	0	4	
MN DULUTH	77	53	86	38	65	1	0	-0.3	0.1	6.0	130	12.4	92	83	39	0	0	0	3	
MN INT'L FALLS	73	49	78	41	61	-4	0	-0.3	0.2	7.1	158	10.0	104	95	52	0	0	0	2	
MN MINNEAPOLIS	81	60	88	48	71	-2	0	-0.7	0.1	7.7	164	17.6	139	79	36	0	0	0	1	
MN ROCHESTER	77	55	83	44	66	-4	0	-0.4	0.4	6.0	87	13.8	104	87	43	0	0	0	1	
MS GREENWOOD	90	71	95	66	81	-1	0	-0.2	0.2	1.5	37	25.1	84	80	48	0	0	0	0	
MS JACKSON	93	71	96	68	82	0	0	-0.0	0.2	3.3	80	25.1	85	95	65	0	0	0	0	
MS MERIDIAN	89	65	93	60	77	-4	0	3.2	2.0	4.9	107	27.2	92	97	51	0	0	0	3	
MO CAPE GIRARDEAU	87	67	95	59	77	-1	0	1.3	0.5	0.7	2.1	51	19.2	81	95	53	0	0	0	2
MO COLUMBIA	82	61	90	56	71	-6	0	5.1	4.2	3.1	12.0	267	30.8	159	96	56	0	0	2	
MO KANSAS CITY	82	63	92	58	73	-5	0	3.9	2.0	3.0	8.1	150	23.7	140	77	66	0	0	2	
MO SAINT LOUIS	85	66	93	59	75	-3	0	0.5	0.4	0.5	3.2	74	24.2	132	90	43	0	0	2	
MO SPRINGFIELD	88	64	97	54	76	-1	0	2.2	1.3	1.8	5.3	102	22.2	108	90	69	0	0	1	
MT BILLINGS	88	61	95	52	74	4	0	0.1	0.2	0.1	1.7	81	6.3	70	56	19	0	0	0	
MT GLASGOW	84	58	93	48	71	3	0	0	0.4	0	1.0	70	4.1	65	50	21	0	0	1	
MT GREAT FALLS	84	52	91	48	68	1	0	0	0.3	0	2.5	89	7.3	76	55	19	0	0	0	
MT HAVRF	86	50	95	43	68	0	0	0	0.3	0	0.6	76	3.3	52	57	17	0	0	0	
MT HELENA	84	54	88	50	69	3	0	0	0.3	0	0.6	76	3.3	52	57	17	0	0	0	
MT KALISPELL	79	44	86	37	61	-2	0	0	0.3	0	2.3	105	5.6	85	58	21	0	0	0	
MT MILES CITY	88	57	95	51	73	0	0	0	0.3	0	1.7	77	7.5	86	94	26	0	0	0	
MT MISSOULA	82	45	91	36	63	-2	0	0	0.3	0	3.7	123	5.9	73	66	23	0	0	0	
NE GRAND ISLAND	84	64	91	61	74	-2	0	2.0	1.3	1.5	5.7	139	24.3	184	83	49	0	0	0	
NE LINCOLN	84	62	89	59	73	-4	0	1.0	0.3	1.0	6.1	145	25.4	183	83	44	0	0	0	
NE NORFOLK	84	61	89	56	72	-3	0	0	0.5	0.2	5.9	118	22.8	173	83	42	0	0	0	
NE NORTH PLATTE	82	59	90	56	70	-3	0	0.3	0.2	0.2	5.0	114	15.3	137	74	41	0	0	0	
NE OMAHA	82	62	90	56	72	-3	0	0.3	0.5	0.2	7.3	155	23.1	153	83	48	0	0	0	
NE SCOTTSBLUFF	80	58	97	55	73	0	0	0	0.4	0.2	1.6	42	9.0	100	86	27	0	0	0	
NE VALENTINE	85	57	92	50	71	-2	0	0	0.3	0.4	3.1	91	9.9	105	71	34	0	0	0	
NV FLY	92	47	96	42	70	4	0	0	0.2	0.6	6.0	3.9	72	64	15	6	0	0	4	
NV LAS VEGAS	108	81	112	70	94	5	0	0	0.1	0.3	300	0.3	18	41	12	7	0	0		
NV RENO	97	55	101	47	76	7	0	0	0.1	0.4	108	1.6	36	57	14	7	0	0		
NV WINNEMUCCA	95	49	99	43	72	1	0	0	0.1	0.4	108	1.6	36	57	14	7	0	0		
NH CONCORD	80	62	87	57	71	2	0	3.1	2.4	1.6	4.0	140	29.1	170	97	61	0	0	0	
NJ ATLANTIC CITY	87	69	92	63	78	5	0	1.4	0.7	1.2	3.0	91	26.7	132	87	50	0	0	0	
NM ALBUQUERQUE	94	66	95	63	80	1	0	0.8	0.6	0.6	1.2	200	2.8	117	69	22	0	0	0	
NM CLOVIS	86	65	90	62	75	-2	0	1.4	0.8	1.3	6.0	200	10.9	154	82	42	0	0	0	
NM ROSWELL	91	67	95	65	79	-2	0	0	0.2	0	4.0	364	7.0	233	75	28	0	0	0	
NY ALBANY	78	60	84	55	69	-2	0	2.5	1.8	1.0	4.2	111	23.8	138	100	71	0	0	0	
NY BINGHAMTON	75	60	81	51	67	-1	0	2.1	1.9	0	4.8	109	22.2	126	96	61	0	0	0	
NY BUFFALO	76	61	82	53	69	-1	0	0.7	0	0.6	7.4	239	21.2	126	82	51	0	0	0	
NY NEW YORK	80	66	88	64	73	-2	0	3.3	2.5	1.8	0.8	265	35.2	160	94	64	0	0	0	
NY ROCHESTER	77	59	83	53	68	-2	0	0.8	0.3	0.4	2.4	77	17.8	117	97	55	0	0	0	
NY SYRACUSE	77	59	83	53	68	-2	0	0.8	0.3	0.4	2.4	77	17.8	117	97	55	0	0	0	
NC ASHEVILLE	81	58	84	51	70	-3	0	2.1	1.3	1.0	4.2	100	18.8	100	90	61	0	0	0	
NC CHARLOTTE	86	65	91	58	76	-2	0	0.8	0.2	0.5	4.8	96	28.7	116	100	64	0	0	0	
NC GREENSBORO	85	65	89	60	75	-2	0	1.1	0	0.5	4.0	98	20.0	128	84	47	0	0	0	
NC HATTERAS	83	75	85	73	79	2	0	1.0	0	0.8	4.1	85	27.2	125	93	51	0	0	0	
NC NEW BERN	89	75	92	73	82	4	0	0.1	-1.0	0.1	3.2	63	23.8	97	91	70	0	0	0	
NC RALEIGH	86	66	90	64	76	-1	0	0.9	0.6	0.6	3.5	55	30.2	123	83	58	0	0	0	
NC WILMINGTON	87	73	90	70	80	1	0	1.0	0	0.6	4.2	91	30.1	141	90	57	0	0	0	
ND BISMARCK	78	50	86	43	64	-5	0	0	0.5	0	3.5	103	0.8	117	85	30	0	0	0	
ND FARGO	78	53	88	43	65	-4	0	0.2	0.5	0.2	5.6	147	10.9	117	88	40	0	0	0	
ND GRAND FORKS	75	50	84	43	63	-5	0	1.2	0.6	0.7	7.2	206	11.7	130	90	45	0	0	0	
ND WILLISTON	83	54	88	45	68	0	0	0.4	0.1	0.3	2.3	77	5.9	80	73	24	0	0	0	
OH AKRON-CANTON	78	59	84	51	68	-3	0	1.4	0.5	0.6	3.0	77	18.5	102	87	52	0	0	0	
OH CINCINNATI	81	61	88	54																

Weather Data for the Week Ending JULY 7, 1984

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS					
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE JUNE 3	PCT. NORMAL SINCE JUNE 3	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE °F		PRECIPITATION		
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE	
DAVTON	77	60	85	51	68	-6	1.6	.8	.5	3.5	83	18.0	93	84	53	0	0	0	1	
TOLEDO	81	57	89	47	69	-2	1.4	.4	.1	1.5	38	15.7	97	84	46	0	0	0	0	
YOUNGSTOWN	76	57	85	45	67	-3	1.1	.2	.5	4.7	112	19.3	103	86	50	0	0	0	1	
OK OKLAHOMA CITY	93	70	102	63	81	0	T	T	T	3.5	81	13.1	79	71	34	0	0	0	0	
THUSA	92	70	99	61	81	-1	T	T	T	1.8	35	25.2	125	83	40	0	0	0	0	
OR ASTORIA	67	52	74	46	60	1	T	T	T	3.8	158	35.1	97	89	65	0	0	0	0	
BURNS	83	49	87	40	66	-1	T	T	T	.9	113	5.6	175	11	1	0	0	0	0	
MEDFORD	94	54	100	50	74	3	0	.1	.7	100	6.8	65	76	23	5	1	0	0	0	
PENDLETON	84	55	90	47	69	-3	0	.1	1.1	157	8.1	121	60	10	0	0	0	0	0	
PORTLAND	79	57	86	50	68	2	0	.1	0	4.1	293	19.9	101	82	39	0	0	0	0	0
SALM	79	47	86	39	63	-2	0	.1	0	3.0	300	22.9	107	99	44	0	0	0	0	0
PA ALLENTOWN	83	68	88	60	75	2	4.8	3.9	2.2	8.9	217	32.7	151	91	61	0	0	0	4	3
ERIP	75	61	83	51	68	0	.8	.0	.7	5.2	124	19.8	106	91	58	0	0	0	2	2
HARRISBURG	81	65	86	59	73	-2	2.6	1.8	1.6	9.0	220	31.7	162	11	1	0	0	4	2	2
PHILADFLPHIA	84	69	87	64	76	1	1.7	.8	1.0	4.6	102	22.0	130	84	55	0	0	0	3	1
PITTSBURGH	76	57	83	50	67	-5	1.1	.3	.4	3.0	77	18.0	94	95	56	0	0	0	5	1
SCRANTON	80	65	86	58	73	1	2.5	1.8	1.8	7.2	185	24.8	147	80	59	0	0	0	5	1
RI PROVIDENCE	81	66	85	61	73	2	1.5	.8	1.4	4.0	118	33.7	148	93	65	0	0	0	3	1
SC CHARLESTON	89	72	93	68	81	1	.6	-1.1	.3	3.5	45	30.5	123	91	57	2	0	0	3	1
COLUMBIA	90	68	92	65	79	-2	1.2	0	.7	7.7	143	30.3	117	97	52	5	0	0	4	1
FLORENCE	87	69	91	66	78	-2	1.0	.3	.7	5.8	100	28.1	127	93	51	1	0	0	4	2
GREENVILLE	83	62	86	56	73	-5	2.0	1.0	.6	5.1	94	34.2	121	99	59	0	0	0	5	2
SD ABERDEEN	76	56	84	48	66	-5	1.3	.7	.8	6.2	177	12.9	130	92	55	0	0	0	2	2
HURON	80	59	89	49	70	-3	.7	.1	.4	11.2	295	20.0	190	97	46	0	0	0	3	1
RAPID CITY	84	53	88	49	69	-2	.8	.2	.8	5.5	149	11.3	112	87	39	0	0	0	2	1
SIOUX FALLS	83	60	91	49	72	-1	T	-0.7	T	8.5	198	20.3	166	89	38	1	0	0	1	2
TN CHATTANOOGA	87	65	91	61	76	-2	3.0	2.0	1.5	5.6	133	29.9	105	96	50	1	0	0	6	2
KNOXVILLE	85	62	88	57	73	-4	1.5	.5	.5	5.9	126	29.9	115	100	57	0	0	0	5	0
MEMPHIS	91	72	94	66	81	-1	.1	-.8	.1	1.3	30	27.8	94	84	47	5	0	0	3	0
NASHVILLE	86	67	92	63	77	-2	1.2	-.3	1.2	5.7	136	32.8	122	88	49	1	0	0	2	1
TX ABILENE	96	75	100	71	86	2	.3	-.2	.3	2.0	71	4.6	41	66	24	7	0	0	1	0
AMARILLO	87	62	92	60	75	-3	.7	-.1	.4	7.6	195	10.7	115	91	38	3	0	0	3	0
AUSTIN	98	74	100	72	86	2	0	-.5	0	1.7	52	8.1	50	84	30	2	0	0	2	0
BEAUMONT	89	74	91	73	81	-2	1.7	-.6	.9	2.7	56	26.3	114	100	69	2	0	0	2	2
BROWNSVILLE	95	76	96	74	86	1	T	-.4	T	2.5	86	14.2	143	90	43	7	0	0	0	0
CORPUS CHRISTI	94	73	96	72	84	-1	.1	-.4	.1	.3	9	9.2	72	92	46	7	0	0	1	0
DEL RIO	96	76	98	75	86	0	0	-.4	0	.4	20	4.7	63	70	29	7	0	0	0	0
EL PASO	96	68	99	64	82	-1	T	-.3	T	3.2	356	4.4	191	67	21	7	0	0	0	0
FORT WORTH	99	74	103	69	86	1	.3	-.2	.3	3.1	107	16.3	99	79	31	7	0	0	0	0
GALVESTON	88	79	91	73	83	0	.2	-.7	.2	1.1	26	11.6	68	87	70	2	0	0	1	0
HOUSTON	91	72	93	70	81	-2	.7	-.1	.7	2.7	59	17.0	76	89	49	6	0	0	2	1
LUBBOCK	91	66	96	63	78	-2	.4	-.2	.3	4.7	147	5.7	69	81	35	4	0	0	3	0
MIDLAND	94	69	97	47	82	1	.2	-.2	.1	2.3	135	6.2	107	69	29	6	0	0	2	0
SAN ANGELO	95	71	97	70	83	-1	.4	-.1	.4	3.2	152	7.5	86	81	30	7	0	0	1	0
SAN ANTONIO	97	74	98	71	85	1	0	-.5	0	1.5	44	9.6	66	84	31	7	0	0	0	0
VICTORIA	95	76	97	75	85	1	T	-.7	T	2.1	43	12.5	71	87	43	7	0	0	2	0
WACO	99	75	102	68	87	2	0	-.4	0	1.8	67	11.2	66	84	35	7	0	0	0	0
WICHITA FALLS	99	73	106	66	86	1	.2	-.3	.2	1.5	48	6.1	42	65	21	7	0	0	1	0
UT BLANDING	90	62	91	56	76	3	0	-.2	0	.8	133	3.2	67	42	19	3	0	0	0	0
CEDAR CITY	95	56	99	50	76	3	T	-.2	T	.6	100	5.1	104	52	14	7	0	0	0	0
SALT LAKE CITY	93	62	100	60	77	2	.3	.1	.3	2.2	183	10.9	118	59	16	5	0	0	1	0
VT BURLINGTON	81	61	88	56	71	2	2.7	1.9	1.5	4.4	105	19.5	126	90	44	0	0	0	4	2
VA NORFOLK	89	72	92	68	80	3	1.3	.3	1.3	2.7	64	20.0	137	87	47	3	0	0	2	1
RICHMOND	91	68	94	63	79	2	.8	-.2	.4	2.8	62	30.2	149	93	46	5	0	0	4	0
ROANOKE	84	62	89	57	73	-2	.8	0	.5	3.1	79	22.3	110	98	50	0	0	0	4	0
WA COLVILLE	78	49	83	43	64	-3	0	-.2	0	6.0	400	16.4	184	81	41	0	0	0	0	0
QUILLAYUTE	65	50	70	46	58	0	.4	-.2	.3	3.2	97	64.5	121	97	64	0	0	0	3	0
SEATTLE-TACOMA	72	54	80	50	63	-1	T	-.2	T	2.8	187	20.4	107	84	46	0	0	0	1	0
SPOKANE	80	50	85	43	65	-3	0	-.2	0	2.4	171	10.0	111	75	27	0	0	0	0	0
YAKIMA	84	49	88	41	67	-3	0	-.1	0	1.4	280	5.0	122	75	26	0	0	0	0	0
WV BECKLEY	77	58	81	49	67	-2	4.8	3.8	2.7	7.7	164	23.6	104	100	64	0	0	0	5	2
CHARLESTON	82	62	86	54	72	-2	2.5	1.4	1.2	5.1	119	19.9	93	93	52	0	0	0	5	2
HUNTINGTON	82	64	87	54	73	-2	1.7	.7	1.0	3.5	81	18.8	88	86	54	0	0	0	4	1
PARKERSBURG	80	65	85	56	72	-2	1.0	-.1	.5	1.5	28	15.1	64	89	53	0	0	0	4	0
WI GREEN BAY	78	53	83	46	66	-3	.1	-.7	.1	5.6	147	14.6	110	94	43	0	0	0	2	0
LA CROSSE	80	56	86	47	68	-4	.3	-.7	.2	7.6	155	16.8	114	96	38	0	0	0	2	0
MADISON	79	54	83	46	66	-4	.6	-.3	.3	7.6	169	17.4	118	89	47	0	0	0	3	0
MILWAUKEE	79	60	85	54	69	0	.3	-.6	.2	4.4	102	17.4	113	82	43	0	0	0	3	0
WAUSAU	75	54	81	44	65	-4	.6	-.3	.4	6.7	140	15.8	108	95	45	0	0	0	2	0
WY CASPER	89	49	95	44	69	0	.1	-.2	.1	1.4	100	8.4	118	79	16	3	0	0	1	0
CHEYENNE	83	52	90	47	68	0	T	-.4	T	2.3	96	9.0	122	86	29	1	0	0	1	0
LANDER	90	56	96	49	73	4	0	.2	0	1.5	100	8.3	97	59	16	5	0	0	0	0
SHRIFRIDAN	86	48	97	47	67	-1	T	-.3	T	2.5	104	9.2	98	82	22	1	0	0	1	0
PR SAN JUAN	89	76	91	74	83	1	1.4	.4	.6	7.9	149	17.4	80	84	58	3	0	0	5	2

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

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

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. Rows list various cities and their corresponding cooling degree day data.

June Weather and Crop Summary

WEATHER REVIEW

HIGHLIGHTS: Early in the month a near stationary ridge of high pressure was established over the southeastern United States, causing warm, moist air to flow northward through the Plains and finally over all of the East. During the same period an unusually cold mass of air moved over the Rockies and into the northern Plains. Severe weather and heavy downpours of rain resulted and caused widespread flooding along the lower Missouri River Valley from South Dakota to northern Missouri. The river was out of its banks through this area and lots of newly planted fields were flooded or washed out. Rain was less than normal from south-central Texas to Michigan, and the eastern Corn Belt and parts of Texas began to show moisture stress. Moisture was also short in parts of the Southeast and mid-Atlantic States, but rains began during the last part of the month. Western Texas experienced beneficial showers during most of the month. Average temperatures were cooler than normal over the Rockies and Plateau, parts of the northern Plains, and the southern coast of Florida. Average temperatures were 2-4 degrees warmer than normal from Illinois into the mid-Atlantic States.

During the first 2 days of the month showers moved from the Pacific Northwest, over the mountains, to the central and northern Plains, and then into the northern Great Lakes region. Severe weather plagued much of the central and northern Plains.

FIRST WEEK...Cold air moved into the Pacific Northwest and spread over the Rockies, the Plateau, and the northern Plains. Showers were widespread over the Rockies and Plateau, and snow fell in the higher elevations. A stationary high-pressure center off the Southeast coast caused warm, moist air to flow northward through the Plains. Severe weather was triggered when the moist air encountered the much cooler air. Showers and thunderstorms covered most of the Plains. Tornadoes, hail, and heavy downpours hit many areas, washing out some newly planted crops. Beneficial showers fell in western Texas. Very hot weather covered the East, with average temperatures running 9-10 degrees warmer than normal in the Great Lakes region and parts of the Northeast.

SECOND WEEK...The near stationary ridge of high pressure continued to push over the southeastern United States and caused warm, moist air to flow northward. A heat wave resulted along the east coast and from Missouri to Virginia for much of the week. The moist air encountered much colder air moving through the Rockies and into the northern Plains, causing severe weather with heavy downpours. Parts of Nebraska, South Dakota, Iowa, and Missouri experienced widespread flooding, much of which was over newly planted fields. Thunderstorms produced severe weather over the High Plains from Texas to South Dakota. Hot weather sapped soil moisture in the Southeast and began to stress some crops.

THIRD WEEK...Showers and thunderstorms were widespread over most of the eastern United States and from the Pacific Northwest to the northern Plains. Severe weather and heavy downpours of rain caused property damage and flooding through the lower Missouri Valley. The Missouri River and its tributaries were at flood stage and rain had no place to runoff. Beneficial rains fell in the Southeast but some of that area and most of the mid-Atlantic States needed more rain. Western portions of Texas had good rains, but the rest of

the State had little or none. Average temperatures were warmer than normal from Oklahoma through the Midwest.

FOURTH WEEK...Showers and thunderstorms were accompanied by severe weather from the southern Plains to the western Great Lakes, across the South, and up the east coast to the mid-Atlantic States. The showers were not nearly as heavy over the lower Missouri Valley as during the previous 2 weeks. Heavy rains caused severe flooding in parts of New Jersey, New York City, and Long Island. Lighter rains covered most of New York and New England. The rains were mostly beneficial in central and western Texas, the Mississippi Delta, and most of the east coast States. Light rain in the eastern Corn Belt was less than desirable, but cool temperatures retarded moisture demand. Average temperatures were cooler than normal east of the Rockies, but warmer than normal from the Southwest through the Rockies.

CROP PROGRESS

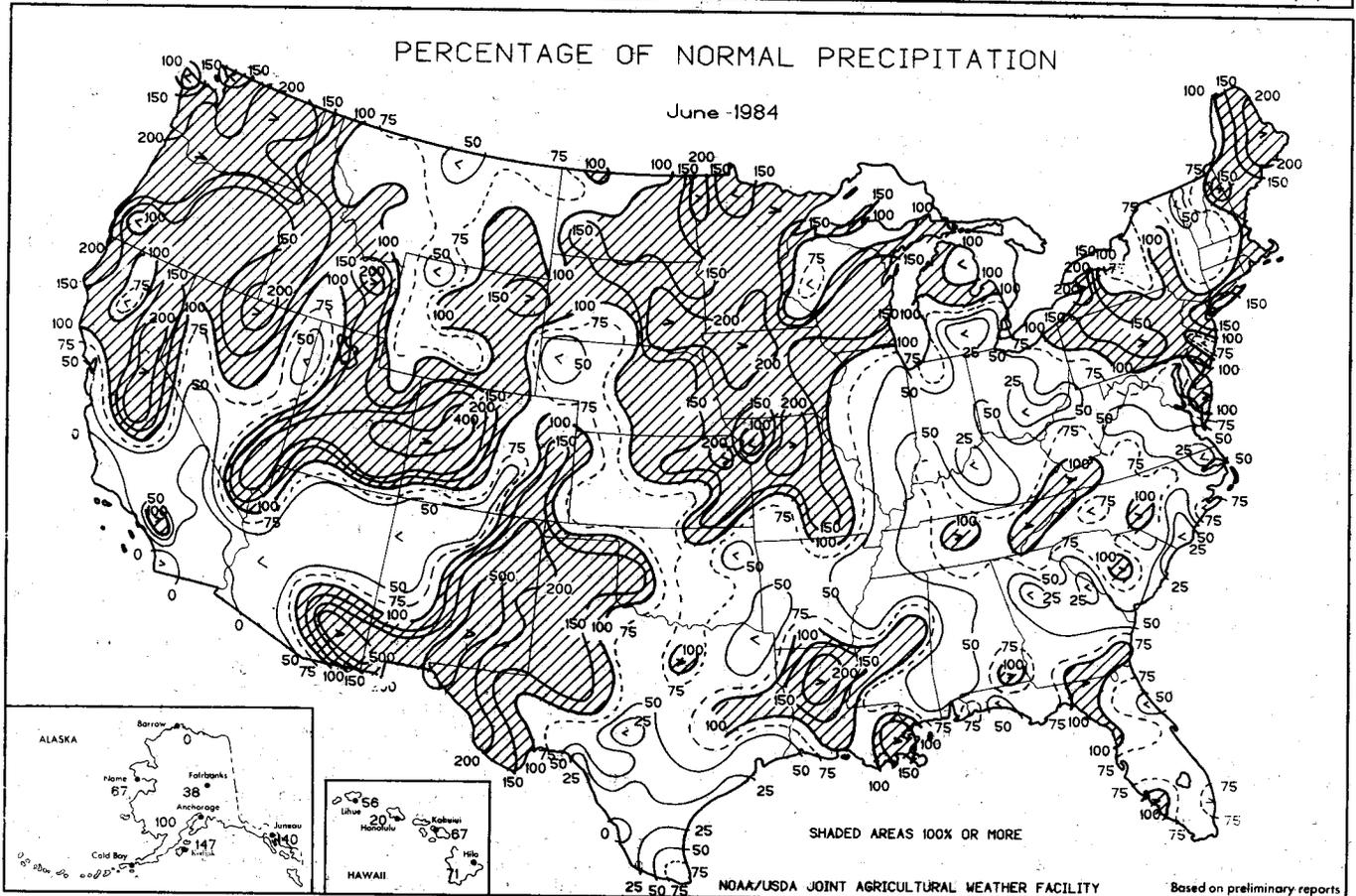
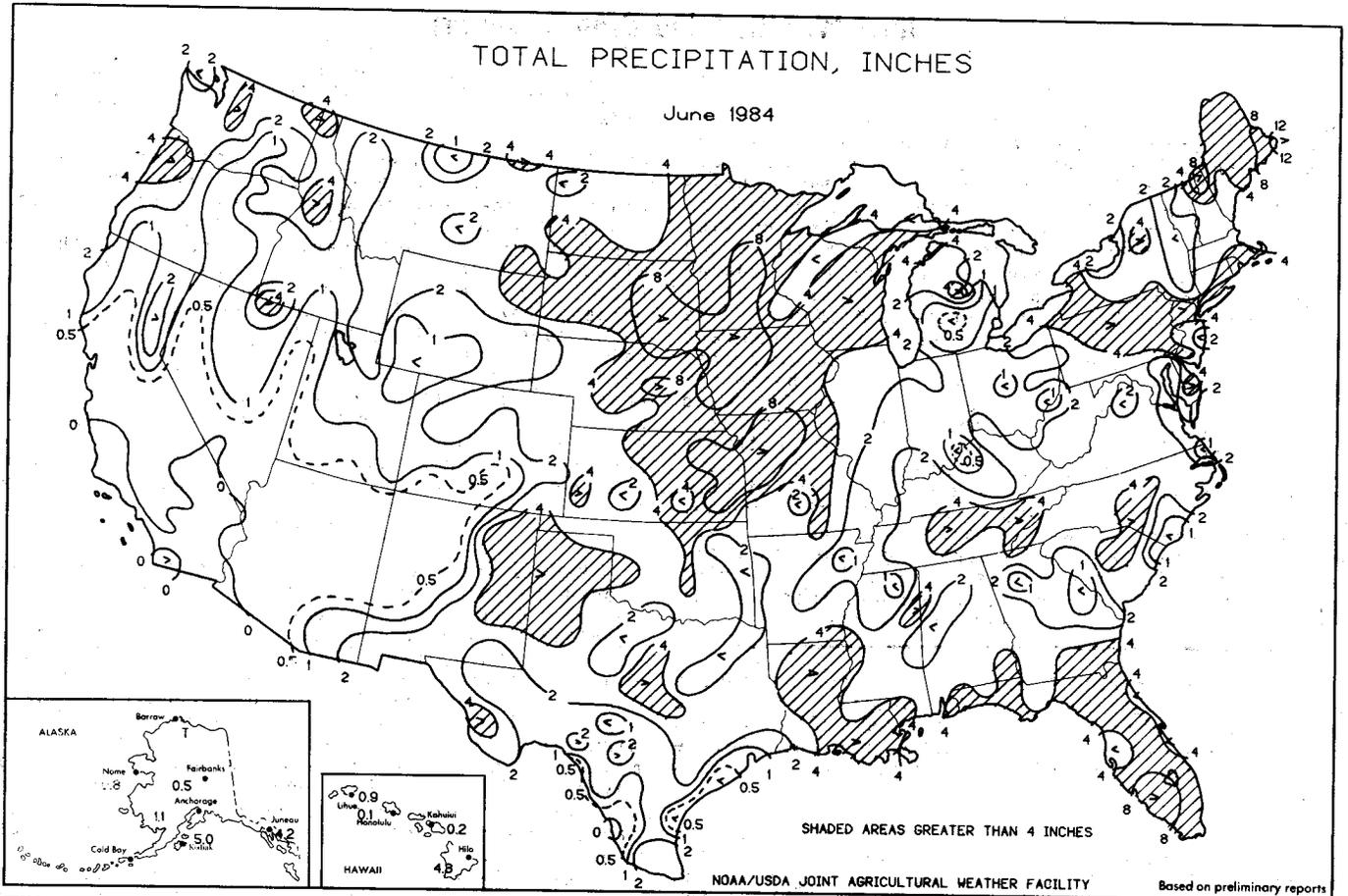
Persistent heavy rains lodged small grains, eroded fields, and flooded low-lying areas in the western Corn Belt through much of June. Drying conditions allowed increased replanting of damaged fields in this area late in the month. Texas High Plains cotton received beneficial rains throughout the month. Unusually hot, dry conditions delayed soybean planting and stressed corn in the South at midmonth. However, beneficial showers relieved most of the stress on corn and spurred planting of soybeans late in the month. Hot, dry weather increased irrigation requirements in California, and caused further deterioration of rangeland grasses over the Southwest.

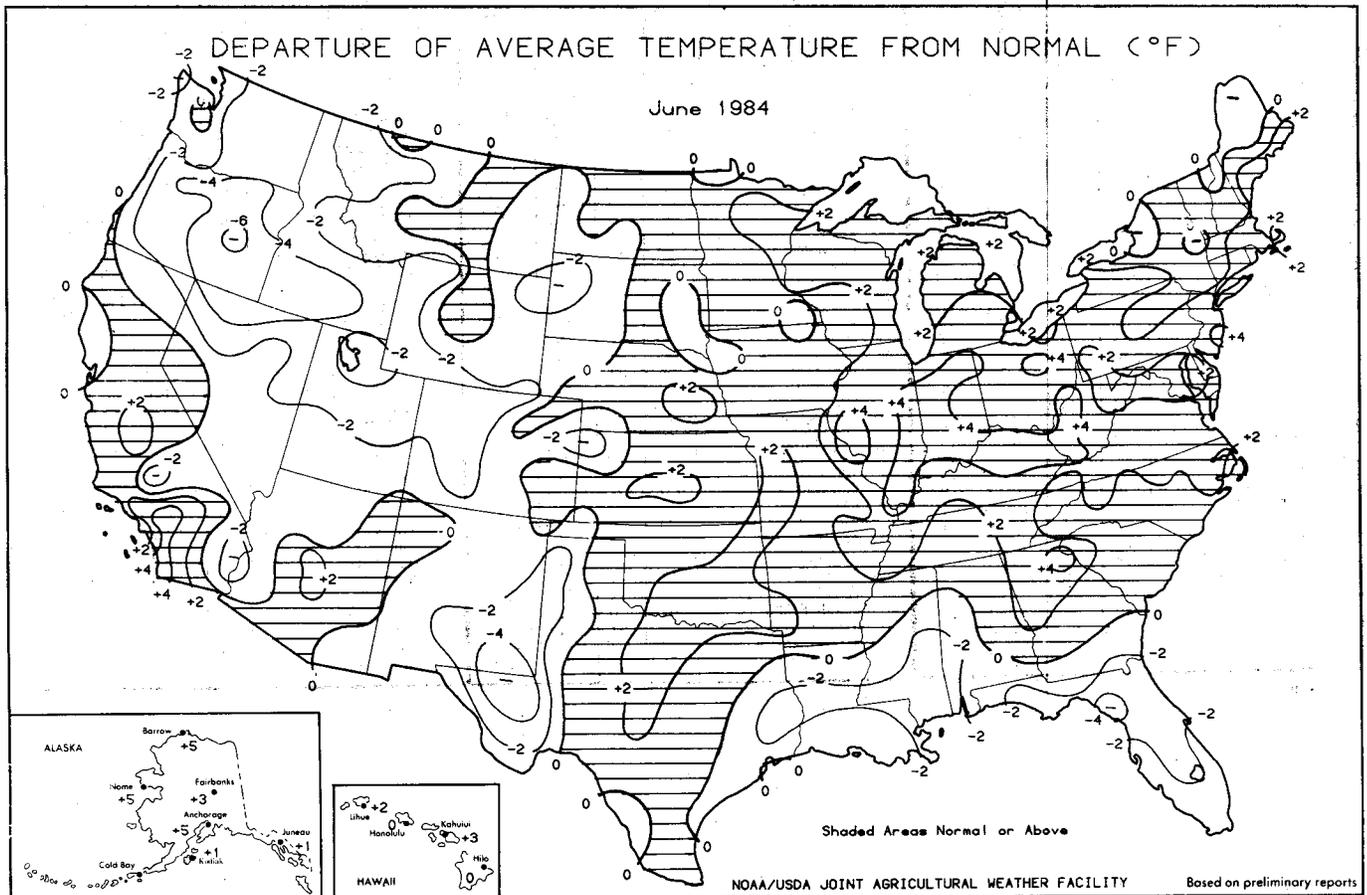
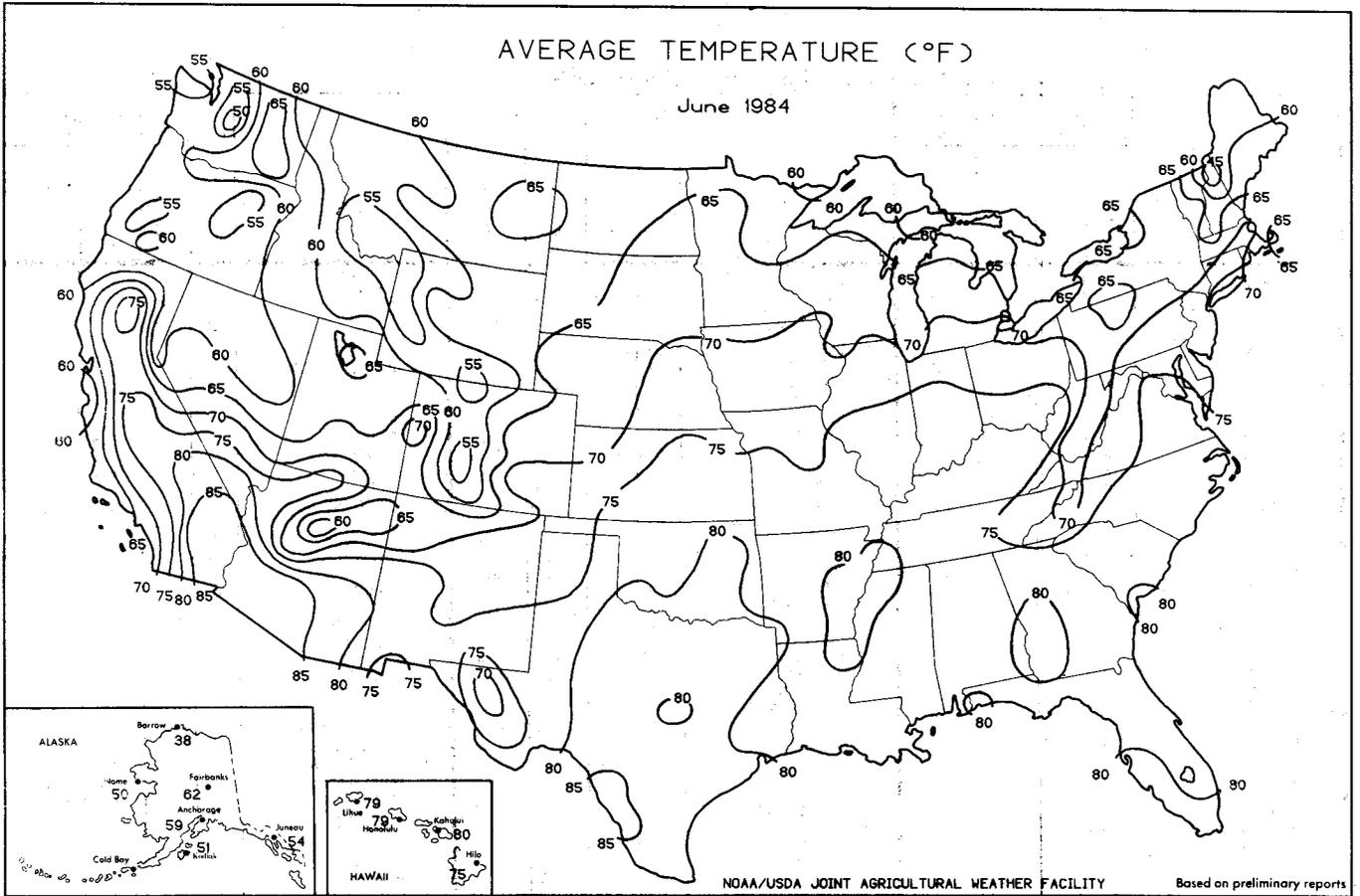
Corn planting was 90 percent finished by early June, compared with the 91 percent average. Planting was 26 points slower than normal in Pennsylvania, 6 points behind in Illinois, and 5 points behind normal in Kansas, Missouri, Ohio, and South Dakota. However, producers were able to get into the fields and by midmonth planting was virtually complete. Corn was 2 percent silked versus 3 percent for the average at the end of June. Stands were silking as far north as Virginia. Many fields were in the dough stage and early planted fields reached the dent stage across the South by the month's end. Showers replenished soil moisture and relieved moisture stress in this region in late June. Corn generally rated fair to mostly good throughout the Nation.

At the beginning of June, soybean seeding was 51 percent complete, 9 percentage points less than normal. Progress trailed the average in all States except Arkansas, Kansas, Louisiana, Minnesota, and Mississippi. Planting was 95-percent complete in the 18 major producing States at the beginning of July, equal to the average. Seeding was virtually complete in the eastern Corn Belt by the end of June. However, wet conditions slowed planting in the western Corn Belt and previous dry conditions slowed progress in the Southeast until late in the month. Planting of double-cropped soybean acreage gained momentum as small grain harvesting neared completion across portions of the South. Soybean stands were in fair to mostly good condition with 1 percent of the crop blooming by July 1.

In early June, cotton planting was 80-percent complete, trailing the 84 percent average. By midmonth, planting was complete in all States except Georgia, Oklahoma, and Texas. Planting advanced rapidly in Oklahoma and Texas after showers moved across the Plains relieving dry conditions late in the month. Squaring was underway on 44 percent of the acreage by July 1, slightly behind the 45 percent average. Progress ranged from no acreage squared in Oklahoma to 94 percent squared in

(continued on back cover)





Temperature and Precipitation Data for June 1984

Temperature and Precipitation Data for June 1984				Temperature and Precipitation Data for June 1984				Temperature and Precipitation Data for June 1984						
States and Stations	Temperature °F		Precipitation Inches		States and Stations	Temperature °F		Precipitation Inches		States and Stations	Temperature °F		Precipitation Inches	
	Average	Departure	Total	Departure		Average	Departure	Total	Departure		Average	Departure	Total	Departure
AL BIRMINGHAM	77	1	1.4	-2.2	BATON ROUGE	79	-1	3.0	-0.2	CLEVELAND	69	1	3.4	-0.1
MOBILE	78	-3	2.1	-3.1	LAKE CHARLES	79	0	3.8	-0.4	COLUMBUS	73	3	0.7	-3.3
MONTGOMERY	79	0	2.5	-1.0	NEW ORLEANS	77	-2	7.2	2.5	DAYTON	72	2	1.9	-1.9
AK ANCHORAGE	59	5	1.1	0.0	SHREVEPORT	79	0	3.6	0.0	TOLEDO	71	3	1.5	-2.0
BARROW	38	5	T	-0.4	ME CARIBOU	59	-1	5.7	2.7	YOUNGSTOWN	69	3	3.7	0.2
FAIRBANKS	62	3	0.5	-0.9	PORTLAND	64	2	3.8	0.8	OK OKLAHOMA CITY	79	2	3.5	-0.3
JUNEAU	54	1	4.2	1.2	MD BALTIMORE	73	1	1.9	-1.9	TULSA	80	2	1.7	-2.8
KODIAK	51	1	5.0	1.6	MA SALISBURY	74	2	4.0	0.5	OR ASTORIA	56	-1	3.9	1.5
NOME	50	5	0.8	-0.4	BOSTON	70	3	3.0	0.1	BURNS	55	-6	0.9	0.1
AZ FLAGSTAFF	58	-1	0.1	-0.5	CHATHAM	63	1	3.9	1.2	MEDFORD	63	-2	0.8	0.1
PHOENIX	89	2	0.2	0.0	MI ALPENA	63	2	2.9	-0.3	PENDLETON	62	-4	1.1	0.5
PRESCOTT	69	2	0.1	-0.5	DETROIT	71	3	1.0	-2.4	PORTLAND	62	-1	4.1	2.6
TUCSON	83	0	1.1	0.8	FLINT	69	3	0.9	-2.3	SALEM	58	-4	4.2	3.0
WINSLOW	73	1	T	-0.4	GRAND RAPIDS	70	3	0.6	-3.2	PA ALLENTOWN	72	3	4.1	0.6
YUMA	88	1	T	0.0	Houghton Lake	65	1	3.0	-0.1	ERIE	69	4	4.5	0.8
AR FORT SMITH	79	0	1.9	-1.8	LANSING	70	3	0.3	-3.2	HARRISBURG	73	2	6.4	2.8
LITTLE ROCK	80	1	1.0	-2.7	MARQUETTE	62	2	2.8	-0.5	PHILADELPHIA	73	1	2.9	-1.1
CA BAKERSFIELD	74	-4	T	-0.1	MUSKEGON	67	1	1.8	-0.6	PITTSBURGH	70	2	2.0	-1.3
EUREKA	55	0	1.1	0.5	SAULT ST. MARIE	60	2	3.9	0.7	RI PROVIDENCE	69	2	4.7	1.3
FRESNO	78	2	0.2	0.1	MN ALEXANDRIA	65	0	6.7	2.6	SC CHARLESTON	69	2	4.0	1.2
LOS ANGELES	67	1	T	0.0	DULUTH	61	2	5.8	1.8	COLUMBIA	79	1	3.0	-3.6
RED BLUFF	77	0	0.1	-0.2	INT'L FALLS	62	1	6.5	2.8	FLORENCE	78	0	4.7	0.0
SACRAMENTO	72	0	0.1	0.0	MINNEAPOLIS	70	2	8.0	3.9	GREENVILLE	78	3	3.1	-1.7
SAN DIEGO	70	4	T	-0.1	ROCHESTER	66	-1	3.7	-0.4	SD ABERDEEN	66	0	5.7	2.5
SAN FRANCISCO	61	0	T	-0.1	ST CLOUD	66	1	8.1	3.6	HURON	67	-1	11.5	8.1
CO DENVER	67	0	1.3	-0.3	MS GREENWOOD	79	0	1.4	-2.0	RAPID CITY	63	-2	4.8	1.6
GRAND JUNCTION	70	-2	1.7	1.3	JACKSON	79	0	3.2	0.2	SIoux FALLS	67	0	8.4	4.7
PUEBLO	72	1	0.4	-0.8	MO COLUMBIA	75	-3	1.6	-1.9	CHATTANOOGA	77	2	2.5	-0.8
CT BRIDGEPORT	71	3	3.6	0.7	KANSAS CITY	74	1	6.9	3.1	KNOXVILLE	75	1	4.3	0.4
HARTFORD	70	1	2.2	-1.2	SAINT LOUIS	79	5	2.7	-1.0	MEMPHIS	81	2	1.1	-2.5
DC WASHINGTON	77	2	2.0	-1.4	SPRINGFIELD	75	2	3.1	-1.5	NASHVILLE	77	1	4.5	0.8
FL APALACHICOLA	77	-3	3.3	-1.4	MT BILLINGS	65	1	1.7	-0.4	TX ABILENE	83	2	1.7	-0.8
DAYTONA BEACH	76	-3	2.8	-3.6	GLASGOW	65	1	2.0	-0.5	AMARILLO	75	0	6.8	3.3
FT. MYERS	82	1	8.7	0.0	GREAT FALLS	60	-2	2.1	-0.7	AUSTIN	83	1	1.7	-1.3
JACKSONVILLE	77	-2	4.8	-0.6	HAVRE	62	-1	0.9	-1.2	BEAUMONT	80	-1	1.1	-2.9
KEY WEST	81	-2	7.1	2.1	HELENA	60	0	2.2	0.2	BROWNSVILLE	83	0	2.5	-0.2
MIAMI	80	-1	7.2	-2.0	KALISPELL	57	-3	1.8	-0.2	CORPUS CHRISTI	82	-1	0.2	-3.1
ORLANDO	78	-3	5.3	-0.6	MILES CITY	66	-1	3.5	0.8	DEL RIO	84	0	0.5	-1.3
TALLAHASSEE	79	-1	3.4	-3.3	MISSOULA	66	-1	1.5	-0.4	EL PASO	80	-1	3.2	2.6
TAMPA	80	-1	3.2	-2.1	NE GRAND ISLAND	73	3	3.9	0.2	FORT WORTH	82	1	2.8	0.2
GA ATLANTA	78	2	0.7	-2.7	LINCOLN	73	2	5.9	2.1	GALVESTON	81	0	0.9	-2.6
AUGUSTA	78	1	0.7	-3.2	NORFOLK	72	1	5.5	1.1	HOUSTON	79	-2	2.0	-2.0
MACON	79	1	1.5	-2.3	NORTH PLATTE	68	0	4.4	0.0	LUBBOCK	77	-1	4.3	1.5
SAVANNAH	79	0	1.5	-4.3	OMAHA	72	1	8.2	4.0	MIDLAND	80	0	2.1	0.7
HI HILO	75	0	4.2	-1.9	SCOTTS BLUFF	67	-1	1.1	-1.8	SAN ANGELO	82	1	2.8	1.0
HONOLULU	79	0	0.1	-0.4	VALENTINE	68	0	2.0	-0.9	SAN ANTONIO	83	1	1.4	-1.6
KAHULUI	80	3	0.2	-0.1	NV ELKO	60	-1	1.3	0.4	VICTORIA	82	0	2.1	-2.4
LIHUE	79	2	0.8	-0.8	ELY	57	-2	0.6	-0.2	WACO	82	0	1.8	-0.8
ID BOISE	62	-4	1.5	0.5	LAS VEGAS	84	-1	0.2	0.1	WICHITA FALLS	83	2	1.8	-1.4
LEWISTON	63	-3	1.6	0.2	RENO	62	0	0.3	0.1	BLANDING	66	-1	1.1	0.7
POCATELLO	59	-4	1.3	0.3	WINNEMUCCA	59	-5	1.4	0.4	MILFORD	65	-1	0.8	0.4
IL CAIRO	82	4	1.7	-2.7	NH CONCORD	66	1	2.9	-0.1	SALT LAKE CITY	67	-1	1.9	0.9
CHICAGO	70	2	2.0	-2.1	NJ ATLANTIC CITY	74	5	1.6	-1.2	VT BURLINGTON	66	1	1.7	-2.0
MOLINE	74	3	3.8	-0.6	NM ALBUQUERQUE	74	-1	0.5	0.0	VA NORFOLK	76	2	1.5	-2.0
PEORIA	74	3	2.9	-1.0	CLOVIS	72	-3	4.6	2.0	RICHMOND	78	4	2.0	-1.6
QUINCY	76	3	3.9	-0.2	ROSWELL	76	-3	4.5	3.6	ROANOKE	74	2	2.3	-1.0
ROCKFORD	71	2	4.0	-0.6	NY ALBANY	66	-1	1.7	-1.6	WA COLVILLE	59	-2	5.6	4.1
SPRINGFIELD	75	2	2.3	-1.5	BINGHAMTON	66	2	2.7	-1.0	QUILLAYUTE	54	-2	2.8	-0.2
IN EVANSVILLE	79	3	3.4	-0.1	BUFFALO	67	2	6.8	4.1	SEATTLE-TACOMA	59	-1	2.8	1.4
FORT WAYNE	73	4	1.5	-2.2	NEW YORK	74	3	6.9	3.6	SPOKANE	59	-3	1.9	0.7
INDIANAPOLIS	75	3	1.5	-2.5	ROCHESTER	67	0	1.7	-1.1	YAKIMA	61	-4	1.5	0.9
SOUTH BEND	72	3	3.4	-0.5	SYRACUSE	65	-1	2.0	-1.6	WV BECKLEY	70	3	2.9	-1.0
IA DES MOINES	73	1	7.8	3.7	NC ASHEVILLE	70	0	3.7	-0.5	CHARLESTON	75	4	2.6	-0.8
DUBUQUE	68	1	6.2	2.0	CHARLOTTE	76	1	3.0	-0.6	HUNTINGTON	75	3	1.8	-1.8
SIoux CITY	70	-1	6.8	2.8	GREENSBORO	75	1	3.0	-0.9	PARKERSBURG	75	4	0.5	-4.0
WATERLOO	70	1	4.5	0.1	HATTERAS	75	1	3.1	-1.1	WI GREEN BAY	67	2	5.5	2.3
KS CONCORDIA	75	1	4.4	0.1	NEW BERN	79	3	2.7	-2.5	LACROSSE	70	1	7.3	3.1
DODGE CITY	77	2	1.9	-1.1	RALEIGH	75	2	3.1	-0.6	MADISON	68	1	7.0	3.1
GOODLAND	68	-2	3.4	0.7	WILMINGTON	77	0	0.8	-4.9	MILWAUKEE	69	3	4.1	0.5
TOPEKA	74	0	10.2	1	ND BISMARCK	63	-1	3.6	0.6	WAUSAU	67	2	6.0	2.1
WICHTA	78	2	2.3	-1.8	FARGO	66	1	5.4	2.3	WY CASPER	62	-1	1.3	0.1
KY BOWLING GREEN	76	2	2.0	-2.6	GRAND FORKS	65	0	5.9	3.0	CHEYENNE	59	-3	2.4	0.4
LEXINGTON	76	4	2.2	-2.1	WILLISTON	63	-1	1.9	-0.8	LANDER	63	1	1.5	0.1
LOUISVILLE	77	4	0.5	-3.1	OH AKRON-CANTON	70	3	1.6	-1.6	SHERIDAN	61	-1	2.3	0.1
LA ALEXANDRIA	79	-2	6.6	2.7	CINCINNATI	74	3	2.1	-2.0	PR SAN JUAN	82	0	6.9	2.2

Based on 1951-80 normals.

Heating Degree Days (Base 65° F.)

June 1984

ALA. Birmingham	1	MAINE, Caribou	199	OKLA. Okla. City	0
Mobile	0	Portland	110	Tulsa	0
Montgomery	0	MD. Baltimore	9	OREG. Astoria	276
ALASKA, Anchorage	179	MASS. Boston	36	Burns	324
Barrow	806	Chatham	87	Medford	108
Fairbanks	120	MICH. Alpena	105	Pendleton	134
Nome	213	Detroit	9	Portland	115
ARIZ. Flagstaff	204	Flint	23	Salem	231
Phoenix	0	Grand Rapids	13	PA. Allentown	12
Tucson	0	Houghton Lake	53	Erie	25
Winslow	0	Lansing	17	Harrisburg	11
Yuma	0	Marquette	124	Philadelphia	13
ARK. Fort Smith	0	S. Ste. Marie	178	Pittsburgh	16
Little Rock	0	MINN. Duluth	116	Scranton	34
CALIF. Bakersfield	0	Internatl Falls	112	R.I. Providence	36
Eureka	285	Minneapolis	7	S.C. Charleston	0
Fresno	0	Rochester	40	Columbia	2
Los Angeles	0	St. Cloud	34	Greenville	1
Red Bluff	5	MISS. Jackson	0	S. DAK. Aberdeen	44
Stockton	4	Meridian	3	Huron	36
San Diego	0	MO. Columbia	0	Rapid City	101
San Francisco	115	Kansas City	1	Sioux Falls	23
COLO. Denver	51	St. Louis	0	TENN. Chattanooga	2
Grand Junction	44	Springfield	0	Knóxville	5
Pueblo	2	MONT. Billings	97	Memphis	0
CONN. Bridgeport	18	Glasgow	85	Nashville	0
Hartford	32	Great Falls	183	TEX. Abilene	0
D.C. Washington	4	Havre	145	Amarillo	0
FLA. Apalachicola	1	Helena	174	Austin	0
Ft. Myers	0	Kalispell	254	Beaumont	0
Jacksonville	0	Miles City	73	Brownsville	0
Key West	0	Missoula	259	Corpus Christi	0
Miami	0	NEBR. Grand Island	3	Del Rio	0
Orlando	0	Lincoln	3	El Paso	0
W. Palm Beach	0	Norfolk	6	Fort Worth	0
Tallahassee	1	North Platte	33	Galveston	0
Tampa	0	Omaha	3	Houston	0
GA. Atlanta	0	Valentine	43	Lubbock	0
Augusta	1	NEV. Ely	240	Midland	0
Macon	0	Las Vegas	0	San Angelo	0
Savannah	0	Reno	133	San Antonio	0
IDAHO, Boise	162	Winnemucca	210	Victoria	0
Lewiston	98	N.H. Concord	85	Waco	0
Pocatello	205	N.J. Atlantic City	8	Wichita Falls	0
ILL. Cairo	0	N. MEX. Albuquerque	3	UTAH, Milford	84
Chicago	18	N.Y. Albany	60	Salt Lake City	76
Moline	2	Binghamton	65	VT. Burlington	68
Peoria	1	Buffalo	35	VA. Lynchburg	5
Rockford	7	New York	9	Norfolk	3
Springfield	1	Rochester	50	Richmond	3
IND. Evansville	0	Syracuse	68	Roanoke	6
Fort Wayne	0	N.C. Asheville	9	WASH. Colville	-
Indianapolis	1	Charlotte	2	Quillayute	347
South Bend	4	Greensboro	4	Seattle-Tacoma	183
IOWA, Des Moines	1	Hatteras	0	Spokane	194
Dubuque	11	Raleigh	5	Walla Walla	88
Souix City	7	Wilmington	1	Yakima	142
KANS. Concordia	2	N. DAK. Bismarck	94	W. VA. Beckley	18
Dodge City	3	Fargo	52	Charleston	5
Goodland	39	Williston	92	Huntington	3
Topeka	0	OHIO. Akron-Canton	7	WIS. Green Bay	13
Wichita	0	Cincinnati	4	Madison	20
KY. Lexington	3	Cleveland	19	Milwaukee	35
Louisville	0	Columbus	3	WYO. Casper	146
LA. Baton Rouge	0	Dayton	2	Cheyenne	177
Lake Charles	0	Toledo	9	Lander	135
New Orleans	0	Youngstown	18	Sheridan	147
Shreveport	0				

Based on 1951-80 normals.

National Agricultural Summary

July 2 to July 8

HIGHLIGHTS: Heavy showers replenished soil moisture and relieved crop stress from the eastern Corn Belt into the Southeast. Fields in low-lying areas were flooded again across portions of the western Corn Belt. Warm, dry conditions continued across portions of the Southwest and Texas, causing further deterioration of ranges and dryland crops. Cool weather generally slowed crop development from the Rocky Mountains eastward. Soil moisture was short to mostly adequate, except in portions of the Southwest and Texas where supplies were very short. Farmers had 4 to 6 days suitable for fieldwork across most of the Nation.

Winter wheat combined advanced rapidly, reaching 51% completion, slightly ahead of the 49% average. Corn was rated fair to mostly good in most regions; 4% of the acreage was silking. Soybeans were 98% planted, with most remaining acreage to be double-cropped. Six percent of the fields were blooming. Sorghum was 21% headed versus 22% for both last year and the average; harvested gained momentum in Texas. Cotton was rated fair to mostly good; 60% was squaring and 16% was setting bolls. Tobacco harvesting moved northward into North Carolina. Rice continued in fair to mostly good condition; 17% was headed. New Jersey producers began picking peaches. Cherry picking got underway in Michigan and New York. Vegetable harvesting declined seasonally across the South, but increased in northern regions. Pastures and ranges were in fair to good condition, except in portions of Texas and the Southwest where conditions were poor.

SMALL GRAINS: Open weather allowed rapid winter wheat harvesting across most of the central and southern Plains. Producers combined 21% of their acreage during the week. In the 15 major producing States combining reached 51% completion, 9 points ahead of last year and 2 points ahead of the average. Growers in Kansas combined 50% of their acreage during the week; Illinois, 43%; Missouri, 38%; California, 22%; Indiana, 21%; and Texas, 9%. Wet conditions hampered harvesting in Nebraska, leaving producers 21 points behind schedule.

Spring wheat was 66% headed, well ahead of the 60% average. Progress ranged from 55% in Montana and North Dakota to 88% in Minnesota.

CORN: Corn was in fair to mostly good condition across the Nation. In the 17 major producing States, 4% of the acreage was silking, 3 percentage points behind the average pace. Most southern fields were in the dough stage and some reached the dent stage. Georgia corn was 30% dented compared to the 43% average.

SOYBEANS: Soybean planting in the 18 major producing States was 98% complete, compared with 97% for both last year and the average. Most of the remaining unseeded acreage was in the Southeast, where double-cropped soybeans will be planted as the small grain harvest is completed. Previous dry conditions delayed planting in portions of the Delta States and Southeast, leaving planting slightly behind schedule in Alabama, Arkansas, Georgia, and South Carolina, while wet weather delayed progress in Missouri. Six percent of the acreage was blooming in the major producing States, behind the 10% average.

SORGHUM: Sorghum planting neared completion in the major producing States. Twenty-one percent of the crop was headed, 1 point slower than last year and the average. Dry conditions caused a high

percentage of crop failure on the Low Plains and Cross Timbers area of Texas. Hot, dry conditions accelerated maturity in south-central Texas. The Texas harvest was 16% finished, 5 points ahead of the average.

COTTON: Sixty percent of the cotton acreage was squaring and 16% was setting bolls in the 14 major producing States. This compares with the averages of 59% and 18%, respectively. Stands were rated fair to mostly good. Additional rainfall is needed in the Texas Low Plains and Cross Timbers area to make a good crop. Early planted fields in the Rio Grande Valley began opening bolls.

OTHER CROPS: Growers actively topped tobacco in the Southeast. Harvesting crept northward into North Carolina. The Georgia crop was 16% harvested, compared with the 28% average for this date. The flue-cured crop was 3% harvested in North Carolina, but cutting had not begun in Virginia.

Rice was in fair to mostly good condition. In Texas, 69% of the acreage was headed, 3 points behind normal. Louisiana stands were 33% headed, 5 points slower than normal. The crop had not begun heading in Arkansas or California. Twenty-one percent of the acreage was turning color in Texas, 4 points ahead of the average.

The Texas peanut crop was 94% planted. Fields need additional moisture and dryland stands are beginning to show stress. Stand were blooming and pegging in the Southeast where the crop was rated mostly good.

FRUIT AND NUTS: South Carolina peach producers began harvesting peak volumes, while New Jersey growers began picking early varieties. The Georgia harvest advanced to 70% completion, 4 points behind normal. Sweet cherry picking increased in New York and Michigan while tart cherry harvesting was just getting started. Florida's citrus groves had adequate moisture and the new crop was developing well. Harvesting of citrus was virtually complete for the season. Continuing hot weather caused increased citrus fruit droppage in California. Valencia orange picking was slowing to completion. Almond tree limb breakage should lessen in the next few weeks as the nuts lose moisture. Growers actively sprayed and harvested a wide variety of fruits.

VEGETABLES: Harvesting of summer vegetables declined seasonally across the South but gained in volume in northern producing areas. Florida's producers finished harvesting most spring vegetables. Only limited supplies of watermelons and sweet corn remain for harvest. Land preparation got underway for fall crops. Harvesting of summer vegetables neared completion in the Rio Grande Valley and San Antonio-Winter Garden areas of Texas. Harvesting of vegetables started on a small scale between showers on the Texas High Plains. California growers harvested light volumes of artichokes, cabbage, and celery. Moderate to heavy volumes of most other crops were available in most areas. Tomato picking gained momentum for both fresh market and processing.

PASTURES AND LIVESTOCK: Hot, dry conditions increased the danger of fire on California's ranges. Pastures were rated mostly fair to good, except from California into portions of Texas where conditions were poor. Livestock were rated fair to mostly good. Marketing continued active in Texas.

CROP PROGRESS

FOR WEEK ENDING JULY 8

	CORN % SILKING		
	1984	1983	AVG.
COLO	0	0	0
GA	91	90	93
ILL	2	2	12
IND	0	0	3
IOWA	0	0	0
KANS	0	0	0
KY	8	2	18
MICH	0	0	0
MINN	0	0	0
MO	0	0	20
NEBR	0	0	1
N C	52	36	59
OHIO	0	0	0
PA	0	0	0
S DAK	0	0	0
VA	29	25	36
WIS	0	0	1
17 STATES	4	3	7

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

	SOYBEANS % PLANTED		
	1984	1983	AVG.
ALA	92	88	96
ARK	95	96	96
GA	96	97	97
ILL	100	100	100
IND	100	100	100
IOWA	100	100	100
KANS	95	95	90
KY	94	88	93
LA	100	94	97
MICH	100	100	100
MINN	99	99	99
MISS	96	84	94
MO	92	93	93
NEBR	100	100	100
N C	97	97	97
OHIO	100	100	99
S C	94	96	96
TENN	95	94	93
18 STATES	98	97	97

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

	SOYBEANS % BLOOMING		
	1984	1983	AVG.
ALA	12	16	13
ARK	0	1	4
GA	8	12	16
ILL	13	15	21
IND	15	5	15
IOWA	6	5	9
KANS	5	4	5
KY	5	1	6
LA	10	8	13
MICH	0	2	3
MINN	2	2	8
MISS	3	2	6
MO	0	5	8
NEBR	6	9	10
N C	1	0	2
OHIO	0	0	0
S C	0	0	0
TENN	4	3	7
18 STATES	6	6	10

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

	RICE % HEADED		
	1984	1983	AVG.
ARK	0	0	2
CALIF	0	0	1
LA	33	25	38
MISS	5	0	3
TEX	69	44	72
5 STATES	17	11	19

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

	SORGHUM % HEADED		
	1984	1983	AVG.
COLO	0	0	0
KANS	0	0	0
MO	4	0	4
NEBR	0	0	0
OKLA	5	3	5
S DAK	0	0	0
TEX	59	64	63
7 STATES	21	22	22

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

	SPRING WHEAT % HEADED		
	1984	1983	AVG.
IDAHO	69	78	75
MINN	88	78	71
MONT	55	65	45
N D	55	58	50
S DAK	84	88	91
5 STATES	66	68	60

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

	COTTON % SQUARING		
	1984	1983	AVG.
ALA	83	59	76
ARIZ	97	98	96
ARK	83	80	83
CALIF	71	65	78
GA	85	87	92
LA	74	47	71
MISS	91	77	87
MO	72	31	61
N MEX	82	27	66
N C	53	32	59
OKLA	3	10	10
S C	91	87	91
TENN	78	42	65
TEX	47	34	44
14 STATES	60	48	59

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

	COTTON % SETTING BOLLS		
	1984	1983	AVG.
ALA	10	5	16
ARIZ	65	70	71
ARK	11	4	17
CALIF	29	10	17
GA	31	36	65
LA	9	1	20
MISS	9	1	14
MO	2	0	8
N MEX	25	1	19
N C	11	8	16
OKLA	0	0	0
S C	45	40	52
TENN	3	0	4
TEX	12	9	15
14 STATES	16	10	18

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

	WINTER WHEAT % HARVESTED		
	1984	1983	AVG.
CALIF	96	90	86
COLO	2	2	5
IDAHO	0	1	0
ILL	68	62	64
IND	30	30	35
KANS	75	55	70
MO	69	47	54
MONT	0	0	0
NEBR	4	8	25
OHIO	5	10	10
OKLA	97	80	90
OREG	0	4	1
S DAK	0	0	0
TEX	89	85	88
WASH	0	0	0
15 STATES	51	42	49

THESE 15 STATES PRODUCED 84% OF THE 1983 WINTER WHEAT 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. Some areas received no rainfall, other areas had up to 2.85 in. Temperatures averaged 10° below normal.

Soil moisture short to adequate. Fieldwork: 5.6 days. Corn silked 76%, 60% 1983, 78% average. Soybeans planted 92%, 88% 1983, 96% average. Soybeans blooming 12%, 16% 1983, 13% average. Cotton squaring 83%, 59% 1983, 76% average. Cotton setting bolls 10%, 5% 1983, 16% average. Peanuts pegging 34%, 54% 1983, 42% average. Wheat harvested 98%, 82% 1983. Activities: Planting soybeans and cultivating other field crops; controlling insects on fruit, vegetables, and crops; harvesting vegetables and peaches; and routine care of livestock and poultry. Conditions: Soybeans, peanuts, and pasture mostly fair; corn fair; cotton, sorghum and livestock fair to good.

ALASKA: Southern areas began week with cloudiness, then sunny, warm until late week when clouds again moved in. Northern areas mostly cold, wet after warm weather early week.

Rain, wet fields slowed fieldwork up to 3.0 days, Tanana Valley and Salcha area, elsewhere in Railbelt up to 6.0 days warm, sunny with occasional showers. First crop hay harvest over 50% complete. Condition of barley good; heights average 20 to 24 in.; grain barley average 80% headed. Harvest of radishes, leaf lettuce, other greens underway. Potato heights 8 to 18 in. Soil moisture short to generally adequate.

ARIZONA: Hot, humid weather 2nd through the 8th with scattered showers, thunderstorms, and locally strong gusty winds. Amounts were between 0.10 and 0.75 in., locally over 1.00 in. in central basins, southeast. Maximum temperatures ranged into 90's higher elevations, 100° at 5,000 ft., and 100 to 120° lower deserts. Average temperatures from zero to 6° above normal.

Arizona's cotton crop continued good progress with 97% squaring, 98% last year, average 96%. Bolls were setting on 65%, 70% last year, and average of 71%. The 1984 crop squaring progress was about 98% in the central and west, were progress was above average, and 82% in the southeast, where progress was mostly average. Wheat and barley harvest completed. Alfalfa haying progress average in most areas with some rain delaying cuttings. Corn and sorghum made average progress statewide. Weed, insect controls used as needed. Safflower average progress, maturing normally. Cantaloup, honeydew and watermelon active all areas. Thompson seedless grapes picked low volumes. Dry onion harvest complete. Carrots, chipper potatoes nearly complete.

ARKANSAS: Temperatures near normal. High 1030, low 540. Precipitation spotty and light north and west, heavier east and south. Most rain 2.93 in., some localities stayed dry.

Soil moisture short, except adequate southern third. Days favorable for fieldwork: 6.3. Crop progress moderate to slow. Most crops need rain. Cotton good condition; squaring 83%, 80% 1983, 83% average; setting bolls 11%, 4% 1983, 17% average. Rice good condition; headed none this year and 1983, 2% average. Soybeans fair to good; planted 95%, 96% 1983, and average; emerged 89%, 90% 1983, 91% average; blooming less than 5% same as 1983 and normal. Wheat and oats virtually harvested, same as 1983 and average. Corn and sorghum good to fair condition. Pastures below average. Cattle good to fair.

CALIFORNIA: Hot! Double digit departures of the weekly mean temperatures at many locations underscores the excessive heat statewide. Maximum temperatures of 100 or higher reported everywhere but the south coast, although 99 was reached at a couple of inland locations. With all the heat, the northern corner showed one morning, at the start of the week, with a freezing temperature. Virtually no precipitation statewide, but afternoon showers sprinkled portions of the central Sierra Nevada and drizzles dampened the extreme south coast.

Cotton 71% squared, 65% last year, 78% average; setting bolls 29%; last year 10%, average 17%. Irrigation and insect control active. Rice 0% headed, 0% last year, 1% average. Broadleaf weed control continues. Winter wheat harvest advanced to 96% complete, 90% last year, 86% average; yields good. Some corn fields showing stress. Plantings continue for dry beans, corn and sorghum as second crops. Safflower progress normal. Sugarbeet mildew control active. Alfalfa cutting continues. Hot weather past weeks accelerated fruit development. Irrigation, weed control continue most crops. Growers spraying apples, codling moth. Apricot harvest nearing completion. Haas avocado harvest continues, slowed poor prices. Black Mission fig harvest continues. Harvest table grapes picking up in San Joaquin Valley. Color, sugar reported very good with harvest ten days, two weeks earlier than last year. Mildew control grapes still in progress. Harvest stone fruit continues, later varieties picked. Harvest Clingstone peaches begun, earlier than normal. Spraying for Oriental fruit moth in peaches continues. Hot weather affected pomegranate set, some orchards showing light crop due fruit drop. Treatment for worms, mites continues. Prunes treated for peach twig borer. Citrus growers treating for red scale. Valencia orange harvest slowing to completion. Citrus fruit drop continues, caused by continuing hot weather. Orchards being cleaned up, broken limbs in almonds. Breakage should be lessening next few weeks, nuts lose moisture. Almonds treated for Navel orange worm. Walnuts continue mature, some sprayed for codling moth. Artichokes light supply, variable quality central coast. Broccoli fairly heavy supply, good quality Salinas-Watsonville, Santa Maria areas. Cabbage harvest light Riverside. Cantaloup harvest gaining San Joaquin Valley, westside. Quality very good. Volume decline Riverside area. Mixed melon harvest getting underway San Joaquin Valley, desert almost complete. Carrots moderate supply, good quality Salinas area. Moderate supply cauliflower Salinas-Watsonville, good quality; Santa Maria shows fairly heavy supply. Celery harvest continues, light supplies, good quality. Sweet corn harvest gaining momentum San Joaquin Valley, harvest, planting continues Coachella Valley. Lettuce fairly heavy supply, quality and weight variable Salinas-Watsonville, Santa Maria. Onion harvest underway San Joaquin Valley. Spring potato harvest slowing. Summer potato harvest underway, good quality. Fall potato crop looking good, slightly behind normal Tulelake-Butte Valley. Harvest market tomatoes continues Riverside area, good quality, also San Joaquin Valley. Processing tomato harvest getting underway, peak expected this week Riverside area. Some harvest begin Sacramento Valley soon. Warmer temperatures continued dry lower elevations pastures ranges, increasing fire danger, brush, grass fires continue problem. Summer grazing areas providing

good feed. Livestock good condition. Milk production increasing.

COLORADO: Widely scattered showers and thunderstorms most days; excess of 0.50 in. on eastern plains. Temperatures 1 to 2° above normal.

Most areas have a shortage of topsoil moisture, but farmers averaged 6.0 days of fieldwork. Winter wheat harvest has begun. Winter wheat 79% turned color: 1983, 85%; average, 80%. Corn averaged 31 inches in height: 1983, 22 inches: normal, 25 inches. Sorghum 97% planted, 1983, 96%; average, 95%. Plant emergence at 93%; 1983, 87%; average, 87%. Alfalfa first cutting 81% complete; 1983, 72%; normal, 79%. The second cutting 5% complete: 1983, 7%; normal, 11%. Barley 88% headed: 1983, 64%; average, 68%. Dry beans showing flowers 6%, 1983, 1%.

FLORIDA: Warm, moist tropical air under high pressure continued to hold in place statewide. Showers, thunderstorms were scattered; occasional late afternoon and evening clusters produced 2.00 to 3.00 in. or more in some localities due to a very slow movement. Maximum temperatures remained low to mid 90's outside shower areas; nighttime lows continued in 70's. A continuation of moist, unstable tropical air under high pressure at weekend with mainly afternoon type thunderstorms except lower east coast where morning, evening showers prevailed. Winds at weekend light, variable with plentiful morning sunshine most areas.

Soil moisture adequate statewide with surplus in low areas. Late corn benefitted from rain but most already made. Silage making continues. Tobacco harvest active, quality good. Soybean plantings nearly complete, crop progress very good. Peanuts in good condition, lapping middles. Cotton making good progress, setting bolls. Sugarcane good to excellent condition. Haymaking active where weather permits, quality good to excellent. Pastures continue to improve; mostly good to excellent condition. Cattle remain in generally good condition. Non-frozen citrus trees very good condition. Pruned, living frozen trees recovering slowly. Moisture adequate, new crop progressing very well. Harvest almost complete for season. Season essentially over for most spring vegetable crops. Limited supplies watermelons, sweet corn remain for harvest. Land preparation underway for fall vegetables.

GEORGIA: Temperatures averaged in the mid to upper 70's north and in the upper 70's to low 80's central and south. Averages were in the low 70's in the mountains. Maximum temperatures were in the 90's except in the mountains. Lowest readings were in the 60's with 50's reported in the mountains. Temperatures averaged 1 to 3° below normal. Rainfall totals were in the 1.00 and 2.00 in. ranges in the north and mostly under an inch elsewhere. There were a few locations with 1.00 and 2.00 in. totals in central Georgia and in the extreme south. Rain fell on about 3 days in the north and central counties and 1 to 2 days in the south.

Soil moisture 13% surplus, 65% adequate, 21% short. Average days suitable for fieldwork 4.3. Main activities: Haying, planting, harvesting, and spraying for insects and weeds. Corn 91% silked, 90% last year, 96% average; dough 66%, 58% last year, 71% average; dent 30%, 23% last year, 43% average; mature 9%, 3% last year, 17% average; condition 4% excellent, 46% good, 38% fair, 11% poor. Cotton 85% squaring, 87% last year, 92% average; setting bolls 31%, 36% last year, 65% average; condition 63% good, 33% fair. Sorghum 93% planted, 91% last year, 89% average; condition 6% excellent, 54% good, 37% fair, 3% poor.

Peanuts 91% blooming, 91% last year, 96% average; pegging 71%, 69% last year, 80% average; condition 11% excellent, 73% good, 16% fair. Soybeans 96% planted, 97% last year, 97% average; blooming 8%, 12% last year, 16% average; setting pods 1%, 3% average; condition 5% excellent, 60% good, 30% fair, 5% poor. Tobacco 16% harvested this year and last year, 28% average; condition 6% excellent, 68% good, 26% fair. Watermelons 37% harvested, 28% last year, 53% average; condition 52% good, 46% fair. Wheat 99% harvested, 98% last year, 98% average; condition 5% excellent, 53% good, 38% fair, 2% poor. Apples 2% harvested and average; condition 5% excellent, 53% good, 39% fair, 3% poor. Peaches 70% harvested, 77% last year, 74% average; condition 8% excellent, 60% good, 30% fair, 2% poor. Pastures 4% excellent, 61% good, 28% fair, 7% poor. Hay crops 5% excellent, 59% good, 31% fair, 5% poor. Cattle 3% excellent, 71% good, 26% fair. Hogs 3% excellent, 70% good, 27% fair.

HAWAII: Island weather remained sunny, warm, and humid. Showers were light for the most part and restricted to the evenings and higher elevations. However, parts of the State did receive some heavy showers. More rainfall is still needed in many areas. Temperatures matched record high levels late in the week.

Insect infestations and heat related problems plaguing some fields. Most crops in fair to good condition with irrigation and spraying at a heavy rate. Supplies of head cabbage and head lettuce moderate to heavy and are expected to increase next week. Chinese cabbage production moderate with plantings making normal progress. Papaya supplies steady. Production currently in a lull, but an increase is forecast to begin late this month and to continue into September. Banana supplies light.

IDAHO: A southeasterly flow brought warm, dry conditions. Near normal temperatures existed in the south while temperatures were slightly below normal in the north. High of 103° in Grandview, low of 28° in Stanley. It was a dry week all across the State. Rainfall was below normal in most areas. Porthill in the north received the most with 0.18 in.

Excellent growing conditions allowed crops to advance rapidly. Winter wheat reached 100% headed, equal to previous years. Spring wheat reached 69% headed compared to 78% last year and 75% average. Spring barley was 60% headed and 5% turning color. Potato development continued to lag behind last year with 20% closing rows compared to 26% last year. First cutting alfalfa was 78% harvested compared to 76% last year, and 83% average. Sweet cherry harvest was behind with 17% complete compared to 77% last year.

ILLINOIS: Temperatures normal to 8° below normal. Precipitation 0.0 to 3.84 in.

Soil moisture 53% adequate, 1% surplus, 46% short. Days suitable for fieldwork: 5.5. Average height of all corn 46 in., last year 43 in., average 50 in.; average. Height of most advanced fields 63 in., last year 60 in., average 66 in. Corn silked 2%, last year 2%, average 12%. Corn condition 19% excellent, 72% good, 8% fair, 1% poor. Soybeans blooming 13%, last year 15%, average 21%. Soybean condition 3% excellent, 65% good, 29% fair, 3% poor. Winter wheat ripe 95%, last year 92%, average 96%; harvested 68%, last year 62%, average 64%. Oats filled 94%, last year 89%, average 94%; turning yellow 52%, last year 49%, average 55%; ripe 16%, last year 14%, average 18%. Oat condition 11% excellent, 70% good, 17% fair, 2% poor. Alfalfa condition 16% excellent, 75% good, 9% fair; second crop cut 45%, last year 44%, average 45%. Red clover condition 11%

excellent, 77% good, 12% fair; crop cut 98%, last year 98%, average 97%. Pasture condition 7% excellent, 63% good, 29% fair, 1% poor.

INDIANA: Temperatures below seasonal levels. Reading 1 to 4° cooler than usual north and 2 to 3° below south. Precipitation widespread. Totals 0.30 to 0.75 in. north, 1.00 to 2.00 in. central, 2.00 to 4.00 in. south. Soil temperatures in middle 70's.

Fieldwork averaged 4.3 days. Topsoil moisture short to mostly adequate, subsoil moisture short to mostly adequate. Corn 42 in. tall, 1983 34 in., average 42 in. corn 0% silked, 1983 0%, average 3%. Corn condition fair to mostly good. Soybeans 11 in. tall, 1983 9 in., average 11 in. Soybeans 100% planted, 1983 100%, average 100%. Soybeans 15% blooming, 1983 5%, average 15%. Soybean condition fair to mostly good. Wheat 75% ripe, 1983 85%, average 75%. Wheat 30% harvested, 1983 30%, average 35%. Alfalfa 30% cut second time, average 35%.

IOWA: Dry week. Temperatures below normal.

Days suitable for fieldwork: 6.4. Corn cultivated 1st time 96% complete; 95% last year; 96% normal. Average height corn 37 in.; 37 in. last year. Tallest corn averaged 54 in., 50 in. last year. Corn beginning to tassel. Corn crop 18% excellent, 56% good, 22% fair, 4% poor. Cultivating soybeans 74% complete; 76% last year. Soybean crop condition 6% excellent, 56% good, 34% fair, 4% poor to very poor. Soybean acreage bloomed 6% complete; 5% last year; 9% normal. Oat crop condition 19% excellent, 56% good, 21% fair, 4% poor. Oat acreage headed 96% complete, 83% last year, 96% normal. Oat crop turning color 35% complete; 20% last year. Harvesting winter wheat crop 14% complete; 2% last year; 16% normal. Winter wheat condition 13% excellent, 51% good, 30% fair, 6% poor. First crop alfalfa 98% complete, 97% last year, 99% normal. Second crop of alfalfa 13% complete, 10% last year, 22% normal. First crop of clover harvested: 80% complete, 80% last year, 89% normal. Hay crop condition, 31% excellent, 55% good, 11% fair, 3% poor to very poor. Topsoil moisture conditions 4% surplus, 69% adequate, 27% short. Subsoil moisture conditions 22% surplus, 72% adequate, 1% short. Livestock generally good to excellent condition. Pasture conditions 27% excellent, 53% good, 20% fair to very poor.

KANSAS: Precipitation averaged less than 0.10 in. central, 0.25 to 0.50 in. west and 0.50 to 1.00 in. east. Temperatures averaged 76 to 79° east and north, 80 to 83° southwest. These were normal north central and northeast, 4° above normal southwest, and 1 to 3° above normal elsewhere.

Soil moisture short southwest, adequate elsewhere. Wheat 75% harvested, 55% last year, 70% average. Sorghum 0% headed, 0% last year, 0% average. Light to moderate number greenbugs and chinch bugs. Soybeans 95% planted, 95% last year, 90% average; 5% blooming, 4% last year, 5% average. Corn 0% silking, 0% last year, 10% average. Alfalfa hay second cutting 50% complete. Pasture and rangeland good to excellent. Days suitable for fieldwork: 5.5.

KENTUCKY: Widespread rain some locally heavy amounts, midweek and again the 6th. Rainfall amounts averaged 2.00 in. with heaviest amounts north central. Normal precipitation for period is 1.00 in. Average temperatures ranged in low 70's.

Soil moisture 73% adequate, 14% surplus, 13% short. Days suitable for fieldwork, 3.4 out of 6. Corn mostly good to fair. Corn 8% silked or silking, 2% last year, 18% average. Soybeans 94% planted, 88% year ago, 93% average; 5% blooming, 1% last year, average 6%. Crop mostly good.

Tobacco fair to mostly good, 10% of plants over 2 ft., 45% 1 to 2 ft. tall. Wheat harvest 84% complete, 73% last year, 90% average. Pastures fair to good.

LOUISIANA: Rainfall amounts ranged from a trace to 2.40 in. Average temperatures ranged from 1° above normal to 4° below. High 96°; low 65°.

Soil moisture adequate. Days suitable for fieldwork: 4.5. Activities included sweetpotato planting: hay, peach, vegetable harvesting; and chemical applications. Rice headed 33% 1984, 25% 1983, 38% average; ripe 1% 1984, 0% 1983, 1% average; condition good. Corn silked 96% 1984, 88% 1983, 90% average; dough stage 69% 1984, 46% 1983, 63% average; mature 9% 1984, 6% 1983, 20% average; condition good. Cotton squaring 74% 1984, 47% 1983, 71% average; setting bolls 9% 1984, 1% 1983, 20% average; condition good. Soybeans emerged 100% 1984, 89% 1983, 94% average; blooming 10% 1984, 8% 1983, 13% average; setting pods 1% 1984, 0% 1983, 1% average; condition good. Sorghum headed 62% 1984, 31% 1983, 41% average; turning color 6% 1984, condition good. Sweetpotatoes planted 100% 1984, 96% 1983, 97% average; condition good. Sugarcane condition fair to good. Vegetable condition fair to good. Peaches harvested 57% 1984, 56% 1983, 67% average; condition good. Hay first cutting 97% 1984, 90% 1983, 94% average. Pasture condition fair to good. Livestock condition good.

MARYLAND AND DELAWARE: Maryland: The week was a warm, wet one. Temperatures averaged mostly 1 to 2° above normal, except on the Lower Shore where temperatures averaged 3 to 4° above normal. Precipitation averaged 2.25 in. with heaviest amounts falling in western and north central areas.

In spite of the rain, farmers were able to work 5.0 days harvesting small grains and early vegetables, and cutting hay. Subsoil and topsoil moisture supplies remain adequate. Small grains still in good condition. Barley 95% harvested; 1983 95%. Rye 70% combined; 65% last year. Wheat 50% harvested, last year 65%. Oats 30% combined; 40% last year. Pea harvest 95% complete; equal to last year. Snap bean and cucumber harvest at 50 and 25% respectively are ahead of year earlier levels of 30 and 15%. Second cutting of alfalfa hay 55% completed; 1983 50%. Other hay harvested twice, 20% complete; 1983 35%.

Delaware: The week was warm with scattered showers averaging 1.75 in. Temperatures averaged 1 to 3° above normal. Over 2.00 in. of rain fell at Wilmington and Middletown and over 1.25 in. fell at Dover and Georgetown.

Farmers worked 5.0 days harvesting small grains, early vegetables, and hay. Topsoil moisture is adequate north and south but short in central areas. Subsoil moisture adequate statewide. Barley 97% harvested, 100% last year. Wheat 44% harvested, 70% 1983. Rye harvest yet to begin. Soybeans 84% planted; 92% last year, 95% average. Green pea harvest 85% done; 60% last year. Snap bean 15% harvested; 20% 1983. Cucumbers 10% picked; 20% last year. Alfalfa hay 82% cut twice, 50% 1983. Other hay cut twice 63%, last year 25%.

Michigan: A second consecutive delightful summer week. Temperatures averaged 2° below normal. Precipitation was very light over the entire State. Near drought conditions continued over the southeast and south central lower Peninsula.

Fieldwork active with cultivating and finishing first cutting of hay. Statewide 6.0 days suitable for fieldwork. Soil moisture supplies becoming short throughout the State. Soybeans 100% planted, 100% last year, 100% average. Soybeans 0% blossomed, 2% last year, 3% average. Corn 0%

silked, 0% last year, 0% average. Winter wheat 75% yellowing, 70% last year, 74% average. Oats 75% headed, 70% last year, 76% average. First cut hay 90% complete, 90% last year, 88% average. Second cut hay 5% complete, 10% last year, 8% average. Strawberries 90% harvested, 85% last year, 87% average. Tart cherry harvest expected to start this week.

MINNESOTA: A large Canadian high pressure system dominated, resulting in below normal temperatures and precipitation. Temperatures averaged 1 to 4° below normal. High: 90°, low: 38°. Precipitation averaged 0.17 to 0.73 in. below normal. Greatest weekly total: 1.06.

Crop development and field activities benefitted from warm and mostly dry weather. Most winter grains turned ripe and spring planted small grains have started to turn. Corn borer and army worm reached economic levels. Soybean recovery from wetness was slower than corn. Hay harvest made good progress. Days suitable for fieldwork: 5.5. Topsoil moisture: 14% short, 79% adequate, 7% surplus. Heading: Spring wheat 88%, 1983 78%, normal 71%; oats 92%, 1983 84%, normal 79%; barley 93%, 1983 84%, normal 75%. Turning ripe: Spring wheat 6%, 1983 1%, normal 8%; oats 7%, 1983 2%, normal 9%; barley 11%, 1983 6%, normal 12%. Height: Field corn 33 in., 1983 23 in., normal 29 in.; soybeans 10 in., 1983 10 in., normal 10 in. Corn condition: 42% poor to fair, 58% good to excellent. Soybean condition: 50% poor to fair, 50% good to excellent.

MISSISSIPPI: Scattered showers throughout the State. Greatest weekly rainfall 3.34 in. Temperatures extremes 59 and 98°.

Soil moisture short. Fieldwork 6.1 days suitable, 4.3 1983 and average. Main activities, cultivating, weed control measures and insect control measures. Wheat harvested 99%, 82% 1983. Hay harvested 43%; watermelons 27%; peaches 56% and corn silage 3% harvested. Sweetpotato planting 98% completed. Cotton condition good; 91% squaring, 77% 1983, 87% average; 38% blooming, 6% 1983, 37% average; 9% setting bolls, 1% 1983, 14% average. Rice good to fair; 5% heading, 0% 1983, 3% average. Corn fair; 72% silking, 50% 1983, 70% average; 38% dough stage, 19% 1983; 13% denting. Soybeans fair; 96% planted, 84% 1983, 94% average; 3% blooming, 2% 1983, 6% average. Sorghum fair to good; 25% heading, 2% 1983. Pasture condition fair.

MISSOURI: Temperatures averaged 2 to 5° below normal. Heavy rains during the first part of the week kept the Missouri River and many of its tributaries above flood level. Up to 8.00 in. rains were reported in west central areas and 5.00 in. rains were reported in the Bootheel and in the central part of the State.

Days suitable for fieldwork: 4.3. Cotton 68% squaring this year, 31% last year, 61% normal. Cotton setting bolls 2% this year, 0% last year, 8% normal. Sorghum 4% this year, 0% last year, 4% normal. Winter wheat 69% harvested this year, 54% normal. All soybeans 92% planted this year, 93% last year, 93% normal. Soybeans, single-crop 98% planted this year, 100% last year. Soybeans, double-crop 72% planted this year, 56% last year. All soybeans 0% blooming this year, 5% last year, 8% normal. Corn tasseling 9% this year, 6% last year. Corn silking 0% this year, 0% last year, 20% normal. Oats 31% harvested this year, 15% last year, 27% normal. Alfalfa second cutting 48% this year, 39% last year, 48% normal. Other hay 73% this year, 78% last year, 61% normal. Pasture condition 9% excellent, 58% good, 30% fair, 3% poor. Condition of corn 6% excellent, 67% good, 27% fair. Condition of soybeans 3% excellent, 54% good, 41% fair, 2% poor. Condition of grain

sorghum 4% excellent, 55% good, 41% fair, 0% poor. Condition of cotton 46% good, 54% fair. Topsoil moisture supply 17% surplus, 67% adequate.

MONTANA: Warm and mostly dry week. Few thundershowers broke out over southwest, south central, southeast and parts of northeast at end of week. Amounts ranged from 0.10 to near 1.00 in. some areas. Rest of State was dry. Temperatures a degree or two below normal in west and near normal east of Divide.

Soil moisture short except in west. Fieldwork, days suitable: 6.8. Small grains in fair to good condition. Sugarbeets in good condition. Winter wheat headed 75% 1984, 65% 1983, 75% average. Winter wheat turning 20% 1984, 35% 1983, 20% average. Spring wheat headed 55% 1984, 65% 1983, 45% average. Barley headed 60% 1984, 60% 1983, 40% average. Oats headed 40% 1984, 45% 1983, 40% average. Alfalfa hay cut 60%, 60% 1983, 50% average. Moderate grasshopper activity reported in drier areas of north central, central and east; mostly light elsewhere.

NEBRASKA: Thundershowers widespread, precipitation ranged from 0.50 to 1.50 in. Temperatures near or slightly below normal.

Winter wheat mostly fair condition. Wheat turned 98%, 95% last year, 95% average. Wheat ripe 35%, 40% last year, 60% average. Wheat harvested 4%, 8% last year, 25% average. No corn silking, none last year, 1% average. Soybeans planted 100%, 100% last year, 100% average. Soybeans blooming 6%, 9% last year, 10% average. No sorghum headed this year, last year, or average. Alfalfa condition mostly good, second cutting 15% complete, 20% last year, 30% average. Corn condition mostly good. Sorghum and soybean condition mostly good. Topsoil moisture mostly adequate. Subsoil moisture mostly adequate to surplus. Pasture and range condition mostly adequate. Days suitable for fieldwork: 5.2

NEVADA: Temperatures warmed to well above normal under influence of a high pressure ridge which remained until late in week. By 7th temperatures cooled to near normal moisture began to spread northward early in week with thunderstorms and strong gusty winds and heavy rains parts of south. Thunderstorms spread into western sections midweek and then shifted to east and south again. Rainfall amounts, however, quite light most areas. Thunderstorms set off numerous range fires end of period.

Small grain development now about normal due warm night temperatures. Scattered showers delayed hay harvest but no damage reported. Livestock mostly good condition.

NEW ENGLAND: Average precipitation ranged from 1.00 to 1.50 in. for eastern Maine to over 3.00 in. over interior areas of the region. The remaining areas received 2.00 in. to 3.00 in. Average temperatures ranged from the upper 60's near the Canadian Border to the low to middle 70's elsewhere across the region.

First cut hay 71% complete, second cut beginning. Vegetable harvesting in progress in the south. Maine potatoes in fair to good condition. Hilling and cultivating active. Rhode Island potatoes in flower stage and suffering from severe Colorado potato beetle infestation. Spraying for control with some success. Strawberry harvest winding down.

NEW JERSEY: Temperatures averaged slightly below normal. Extremes were 45° on the 9th and 93° on the 5th. Weekly rainfall averaged 4.55 in. north, 2.61 in. central and 1.47 in. south. The heaviest 24-hour total was 3.03 in. on the 6th to 7th. Estimated soil moisture, in percent of field

capacity, averaged 96% north, 82% central and 60% south. Four inch soil temperatures averaged 72° north, 73° central and 74° south.

Fieldwork: 6.0 days suitable. Topsoil moisture supply adequate. Harvest of summer vegetables increasing. Blueberry volume good. Bluecrop variety currently being harvested. Light harvest of Clingstone peach varieties begun. Apples sizing well. Barley, wheat and rye combining active. Hay making progress well underway with good drying conditions. Field corn and soybeans growing well. Soybean planting continues following grain harvest.

NEW MEXICO: Rain was received in most localities. Wheat, barley harvests well along. Dryland grains poor to fair, irrigated grains mostly good. Corn beginning to tassel. Cotton fair to good. Haying hampered by rains. Alfalfa in second and third cutting. Potato harvest underway. Onion harvest continued. Peanuts growing well. Pecans in good shape. Range improving. Some grasshoppers showing up. Cattle, sheep gaining well. Cotton squaring 82%, last year 27%, average 66%. Cotton setting bolls: 25%, last year 1%, average 19%.

NEW YORK: A very wet week with excessive rains. There were a couple of dry days early in the week, otherwise showers occurred on most days with downpours late in the week. Rainfall was generally 1.00 to 2.50 in. but over 3.50 in. in the southeast. The far western sections and St. Lawrence Valley missed the heavy rains. Temperatures were near normal but daytime readings were held down by extensive clouds and showers.

Corn making good progress. First cut alfalfa haying 78% complete, compared to 92% a year ago and 72% average. Clover-Timothy haying 54% complete, behind 75% a year ago and 56%. Grass silage harvesting 79%, behind 90% last year and ahead of 77% average. Oats have headed out. Wheat fields turning. Sweet cherry harvest underway. Tart cherries in good condition. Apples currently 1.50 in. in diameter. Condition remains good. Tuber set has started on earlier varieties of potatoes.

NORTH CAROLINA: Temperatures averaged 2 to 4° below normal in the mountains and about normal in the east. Precipitation amounts varied widely ranging from 0.12 to 5.91 in.

Soil moisture: 5% very short, 28% short, 57% adequate, 10% surplus. Days suitable for fieldwork: 5.0. Condition: Corn 5% poor, 37% fair, 53% good, 5% excellent. Cotton 14% fair, 76% good, 10% excellent. Peanuts 33% fair, 67% good. Soybeans 26% fair, 74% good, 2% excellent. Tobacco 2% poor, 39% fair, 57% good, 2% excellent. Irish potatoes 28% fair, 67% good, 5% excellent. Peaches 4% fair, 92% good, 4% excellent. Plantings: Sorghum 88%, 1983 94%, average 94%. Soybeans 97%, 1983 97%, average 97%. Sweetpotatoes 97%. Harvested: Wheat 92%, 1983 84%, average 92%; oats 94%, 1983 91%, average 95%; barley 97%, 1983 93%, average 97%. Rye 98%, 1983 91%, average 97%. Peaches 50%, 1983 59%, average 52%. Tobacco 3%, 1983 0%, average 4%. Major farm activities: Harvesting small grains, peaches and tobacco, planting soybeans and sorghum, cultivating tobacco and other crops, applying herbicides and pesticides and general farm maintenance.

NORTH DAKOTA: Week was cooler than normal. The southeast was 5° cooler than normal while the northwest was just slightly below normal. Remainder of the State averaged 3° below normal. Extremes ranged from 91 to 36°. The southeast was well above normal for moisture and averaged 1.20 in. of rain. Remainder of State was below normal

with the northwestern district receiving only 0.02 in. of moisture.

Crop development continued at healthy pace. All crops rated in mostly good to very good condition. Topsoil moisture conditions deteriorated for the week, but still better than the average. Percent heading or beyond compared to last year and average for hard red spring wheat 55, 58, 50; durum 33, 35, 35; barley 67, 62, 57; and oats 47, 57, 51. Row crop development also at or ahead of normal. Major farm activities were haying, row crop cultivating and insecticide application. Leaf diseases readily apparent many areas, fungicides being applied to some fields.

OHIO: Temperatures upper 70's to low 80's, 2 to 6° below normal. Lows averaged in the 50's. Base 50 growing degree days 10 to 20 below normal; accumulations from 130 to 140. Precipitation widespread, totals generally over 1.00 in.

Soil moisture 25% short, 63% adequate, 12% surplus; 4.0 days suitable for fieldwork. Corn 12 leaves fully emerged 1984, 10 leaves 1983, 12 leaves average; silking 0% 1984, 1983, average; condition fair to good. Soybeans blooming 0% 1984, 1983, average; condition fair to good. Winter wheat harvested 5% 1984, 10% 1983, 10% average. Pasture fair to good condition.

OKLAHOMA: Temperatures averaged normal Panhandle, north central, northeast, and central to 2° above west central and southwest. Precipitation averaged 0.02 in. central and east central to 0.96 in. southeast.

Hot, dry weather allowed wheat harvest to finish in most areas. Rain needed for row crop growth and development, particularly southwest where precipitation since March 1 is only slightly over half of normal. Only the Panhandle reported over 10% of wheat uncut. Approximately 55% of wheat stubble plowed. Poor soil moisture stunting cotton growth. Grasshoppers severe problem in north and east. Wheat harvested: 97%; 80% 1983; 90% average. Sorghum headed: 5%; 3%, 1983; 5% average. Cotton squaring: 3%; 10%, 1983; 10% average.

OREGON: Temperatures were 3 to 6° above normal. Only 0.10 in. of precipitation in western area. Eastern area reported traces of precipitation.

Winter wheat conditions good to excellent for entire State. Harvest of all small grains late due to cool, wet spring. Few early fields now being cut. Harvest of alfalfa and other hay main field activity. First cuttings winding down, second underway in many areas. Grass seed harvest started in early areas. Soil moisture adequate in most areas, some becoming short. Strawberry harvest winding down, raspberry harvest starting, early blueberries ready for picking. Sweet cherry picking underway. Peaches in Jackson County one week from harvest, crop looks good. Early peaches in Willamette Valley look light, Brooks prunes good. Italian prunes light set. Early apricots ripe in Hermiston areas. Bartlett pears and apples being thinned. Filbert crop looks good. Western area growers harvesting peas and green onions. Some sweet corn still being planted. Early sweet corn fields tasseling. Crop looks good. Cabbage and early cauliflower being harvested. Hermiston-Boardman area asparagus harvest complete. Norgold potato digging two weeks away. A few chipping potatoes harvested. Livestock, range and pasture condition generally good. June rains have kept many pastures green; however, non-irrigated pastures are beginning to dry up.

PENNSYLVANIA: Another rather wet week but near normal temperatures. Heavy rains occurred over

eastern counties latter part of week. Isolated 2-day totals approximately 5.00 in. This is the third consecutive week that the State average was above 2.00 in. Temperature average was 69°. Precipitation average was 2.11 in. which was 1.23 in. above normal.

Days suitable: 2.0. Moisture adequate to surplus. Activities: Planting soybeans; making hay, haylage; combining barley; spraying corn; general farm maintenance; harvesting final strawberries and sweet cherries, cabbage, tart cherries, lettuce, string beans and zucchini. Soybean planting virtually complete, last year 93%. Barley 12% headed, 19% turning yellow, 28% ripe, 41% harvested, last year 10% headed, 30% turning yellow, 26% ripe, 37% harvested. Wheat 20% headed, 48% turning yellow, 29% ripe, last year 30% headed, 55% turning yellowing, 18% ripe. Average corn height 21 in., last year 25 in. First cut alfalfa 80% complete, last year 92%. Second cut alfalfa 9% complete, last year 15% complete. First cut clo-tim 69% complete, last year 81%. Quality of hay made mostly poor to fair. Feed from pastures average to above average.

PUERTO RICO: Island average rainfall 2.72 in. or 1.60 in. above normal. Highest weekly total 5.57 in. Highest 24-hour total 4.10 in. Temperature averaged about 80° on coast and 75 to 74° interior division. Extremes 95 and 51°.

SOUTH CAROLINA: Weather typically warm and humid. Afternoon thundershowers over much of State. Temperatures averaged 1 to 7° below normal. Daily highs low 90's. Thundershowers throughout week in northwest. South coast precipitation less frequent and much lighter.

Soil moisture mostly adequate. Days available for fieldwork: 4.9. Corn condition fair to good: 81% silked, 68% last year, 81% average; 25% dough stage, 17% last year, 51% average. Cotton condition fair to good; 91% squaring, 87% last year, 91% average. Soybean condition good; 94% planted, 96% last year, 96% average. Wheat harvest virtually complete. Tobacco condition fair to good: 9% harvested, 2% last year, 15% average; 90% topped, 44% last year, 77% average. Peach harvest progressing smoothly: 39% harvested, 38% last year, 42% average. Melon harvest continues: Quality fair to good.

SOUTH DAKOTA: Average temperatures ranged to 5° below normal. Extremes: 94 and 40°. Widespread thundershowers dropped up to 2.03 in. of rain across most of the State.

Days suitable for fieldwork: 5.0. Topsoil moisture was adequate over most of the State. Shortages were reported in the south central areas of West River, with a narrow north to south surplus band through the central portion of the East River area. Grasshoppers reportedly causing problems in the west and mosquitoes are bothering livestock. Spring wheat headed 84%, 1983 88%, average 91%. Sorghum headed 0%, 1983 0%, average 0%. Winter wheat harvested 0%, 1983 0%, average 0%. Corn silking 0%, 1983 0%, average 0%.

TENNESSEE: A weak cold front dissipated across the State midweek producing precipitation statewide. Another cold front moved through during the weekend producing scattered rainfall. The middle and eastern sections of the State received ample rainfall while the west remained dry. Rainfall totals exceeded 3.00 in. in some areas of the east. Mean temperatures were near normal across the west and central sections while the east averaged 2 to 4° below normal.

Days suitable for fieldwork: 5.0 days. Corn tasseling: 25%, 1983 20%, average 28%, corn dough: 3%, 1983 4%, average 3%. Cotton squaring: 78%,

1983 42%, average 65%, setting bolls: 3%, 1983 0%, average 4%. Soybeans planted 95%, 1983 94%, average 93%; blooming 4%, 1983 3%, average 7%. Wheat harvested 93%, 1983 85%, average 87%. Sorghum planted 93%. Alfalfa hay 2nd cutting 85%, 1983 62%, average 81%.

TEXAS: First part week, thunderstorms scattered High Plains, Edwards Plateau, along Coastal Bend. Middle week, thunderstorms formed along Red River ahead weak cold front, daytime heating triggered thunderstorms Big Bend, southeast Texas. Remainder week, widely scattered thunderstorms eastern portion State, coastal sections. Temperatures near normal High Plains, Edwards Plateau, southern third State. Temperatures Low Plains, Cross-Timbers, northern Blacklands above normal, East Texas, Trans-Pecos below normal. Rainfall below normal statewide.

Crops: Rain showers High Plains continue delay wheat harvest; additional moisture helping spring-planted. Scattered showers Trans-Pecos, East Texas, remainder State dry, hot. Spraying, cultivating main activities Blacklands, sorghum grain harvest spread into south central Texas. Condition Valley allowed sorghum harvest progress well, other crops make good growth. Range conditions improving areas with good rainfall. Sorghum planting virtually completed Plains, early-planted fields rapid growth, some fields heading. High percentage crop failure Low Plains, Cross Timber due dry conditions. Rapid maturing Blacklands; headworms continue minor problems. Harvest south central Texas, hot, dry conditions accelerated maturing. Harvest good progress Valley, yields continue good. Statewide condition 70% of normal, compared with 77% a year ago. Current reported conditions: 6% excellent; 50% good; 25% fair; 18% poor; and 1% failure. Corn pre-tassel and tassel stage Plains. Crop good condition. Fields remainder State fair to poor condition. Some early fields harvested Coastal Bend; major harvest activities not begin until sorghum harvest completed. Statewide corn condition 70% of normal, compared with 81% last year. Current reported conditions; 10% excellent; 39% good; 34% fair; 15% poor; and 2% failure. Wheat harvest High Plains slowed intermittent showers. With dry, open weather harvest complete soon. Statewide condition 63% of normal, compared with 87% a year ago. Current reported conditions: 11% excellent; 24% good; 41% fair; and 11% poor. Cotton planting virtually completed Plains. Earlier planted fields developed well. Low Plains, Cross-Timbers, additional rainfall necessary make a crop. Insect problems Blacklands. Spraying active. Some fields South Texas defoliated. Cotton progress well Rio Grande Valley. Peanuts irrigation looking good, up good stands. Most fields additional moisture ensure proper growth. Dryland peanuts stressed. Planting soybeans nears completion, irrigated fields good growth. Dryland areas moisture stressed.

Cotton planted 99% 1984, 100% 1983, 100% average; squaring 47% 1984, 34% 1983, 44% average; setting bolls 12% 1984, 9% 1983, 15% average; open bolls 1% 1984, 0% 1983, 2% average. Rice headed 69% 1984, 44% 1983, 72% average; turning color 21% 1984, 7% 1983, 17% average. Sorghum planted all purposes 98% 1984, 99% 1983, 99% average; headed 59% 1984, 64% 1983, 63% average; turning color 49% 1984, 42% 1983, 46% average; mature 32% 1984, 24% 1983, 25% average; harvested for grain 16% 1984, 3% 1983, 11% average. Wheat harvested for grain 89% 1984, 85% 1983, 88% average. Oats harvested for grain 87% 1984, 93% 1983. Peanuts planted 94% 1984, 94% 1983, 96% average. Soybeans planted 100% 1984, 96% 1983, 93% average. Sunflowers planted 98% 1984, 94% 1983, 93% average.

Commercial vegetables: Rio Grande Valley, harvest summer vegetables winding down. Limited volumes still available. Land preparation, seeding fall vegetables started. San Antonio-Winter Garden, harvest watermelons continues. Other summer vegetables limited quantities season nears end. Trans-Pecos, onion harvest continued between rain showers. Limited supplies cantaloups, watermelons available. High Plains, harvest started small scale between rain showers. Potatoes, onions developed well under recent moisture. Fair sizes later crop peaches picked, quality down slightly. Pecans plains developing well in nutlet stages. Elsewhere, crop suffered lack of moisture. Considerable droppage expected.

Range and livestock: Ranges, pastures greening up. Plains, livestock markets active. Poor grazing conditions Low Plains, Cross Timbers; livestock fair condition. Hay short supply, but quality good. Horn flies probelms Edwards Plateau. Overall, State range, pasture condition poor.

UTAH: Thunderstorms deposited generally light to moderate precipitation with some locally heavy amounts throughout the southwestern quarter except for "Dixie" area which had no reported precipitation. Accumulations were generally zero or light rest of State. Maximum temperatures averaged 4° above normal, ranging 3° below to 8° above. Maximums averaged 2° above normal ranging 4° below to 8° above.

Days suitable for fieldwork: 6.7. Mostly making hay, cultivating, and irrigating. Winter wheat 90% heading and 30% turning color. Barley 80% headed, spring wheat 75%, oats 50%. First crop alfalfa hay 90% harvested. Sweet cherry picking in full swing. Apricots and tart cherries to follow about 2 weeks. Range feed adequate northern areas--short in south. Soil moisture rangelands becoming short. Grasshopper infestations spreading.

VIRGINIA: Much needed rainfall reported over the State with many locations in the west and central recording over an inch to add to the one to two inches totals from the last two days of June. temperatures averaged normal with most locations reporting 80's and 90's for highs and 60's and 70's for lows except 10 degrees lower in the mountains.

Widespread rain at end of previous week and thunderstorms during current week, improved topsoil moisture to 30% short, 63% adequate, and 7% surplus. Days suitable for fieldwork: 4.6. Crops benefitted from rain but more needed to maintain conditions in most areas. Corn grew rapidly with 29% in silk, 25% last year, 36% average. Corn now in good condition but uneven growth reported many areas. Applying nitrogen. Soybeans in good condition, planting double crop soybeans active. Soybeans 93% planted, 92% last year, 94% average. Tobacco in good to excellent condition. Farmers cultivating, spraying, and topping plants. Flue-tobacco harvest should be active soon. Peanuts beginning bloom. Crop in good to excellent condition. Farmers spraying for leaf spot, controlling weeds, applying land plaster. Small grain yields good. Wheat 77% harvested, 80% last year, 85% average. Barley 95% harvested, 93% last year, 94% average. Oats 60% harvested, 68% last year. Pasture and hay land fair to good condition, improving with additional moisture. Potato harvest active. Yields reported lower than average.

WASHINGTON: A large area of high pressure dominated the weather during the week. Summertime fronts crossed on 1st and 5th. Rainfall fell west of Cascades but totals were below normals. Temperatures were near normals in most areas.

Sunny skies and warmer temperatures have replaced the unusually cool and wet weather.

Winter wheat heading complete. Winter wheat harvest expected to be late. Crop prospects look good. Summer fallow fields being fertilized. Strawberry harvest nearing completion. Raspberry harvest has started. Blueberries starting to ripen. Apple scab has shown up in some areas. Cauliflower and broccoli harvest underway. Early planted green peas harvest to begin next week. Corn fields starting to grow. Harvest of leafy vegetables continues. Ranges and pastures in good condition in most areas, the first hay cutting nearly complete. Second cutting of alfalfa will start soon.

WEST VIRGINIA: Temperatures averaged 2° below normal in northwest, north central and southwest sections. Central and southern areas had normal temperatures, while northeast portion averaged 3° above normal. High of 93° reached in Martinsburg, low of 47° in Canaan Valley. Precipitation well above normal over the entire State. Most rainfall in Beckley 4.77 in., least received in Parkersburg 0.57 in..

Soil moisture adequate. Days suitable for fieldwork: 3.0. Main activities: Harvesting hay and general maintenance.

WISCONSIN: The week began on a warm and humid note with highs in the 80's, then turned cooler during the late part of the week with highs in the 70's and 80's. Frost was reported in the north on early 7th. Scattered showers produced rain from between 0.20 in. to 0.80 in. with scattered locations receiving much more. Most of the precipitation occurred the 3rd and the 5th.

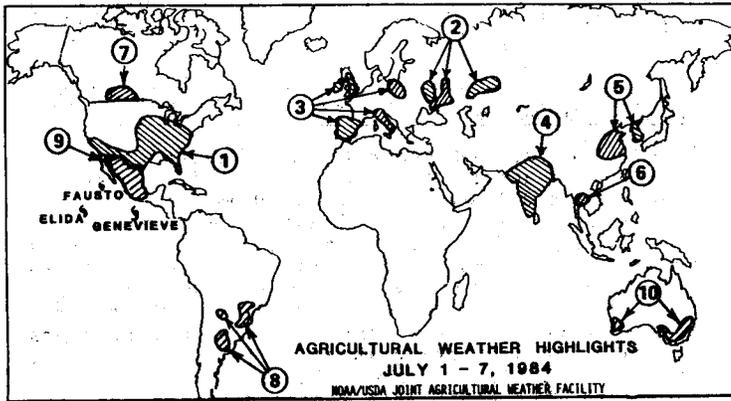
First crop haying was 95% complete, compared to 83% last year and a 90% average. Second crop haying was 8% complete, 5% last year, an average of 6%. Second crop regrowth was variable depending on available moisture in soil. Corn height was 34 in., compared to 22 in. last year and an average of 31 in. Corn on well drained soils is super, that in low spots yellow and short. Two reports of silked corn but less than 1% of the State. Oats 74% headed, last year 63% an average of 77%. Condition of crop very good. Some starting to ripen. There were 5.8 days suitable for fieldwork. Soil moisture reported at 20% short, 75% adequate, 5% surplus.

WYOMING: Warm week. Most stations above normal temperatures. Most stations below normal rainfall.

Topsoil moisture short 72% State. Days suitable for fieldwork: 7.0. Light to severe hail damage reported central, south central area. Winter wheat; 15% boot, 80% headed. Last year, 15% boot, 85% headed. Barley: 35% boot, 50% headed. Last year, 15% boot, 55% headed. Oats: 45% boot, 35% headed. Last year, 35% boot, 40% headed. Sugarbeets: 90% thinned. Alfalfa: first cutting 55% complete. Other hay harvest 25% complete. Range, pastures need moisture.

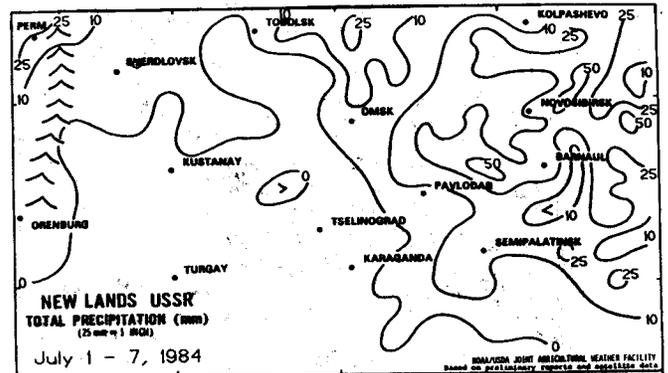
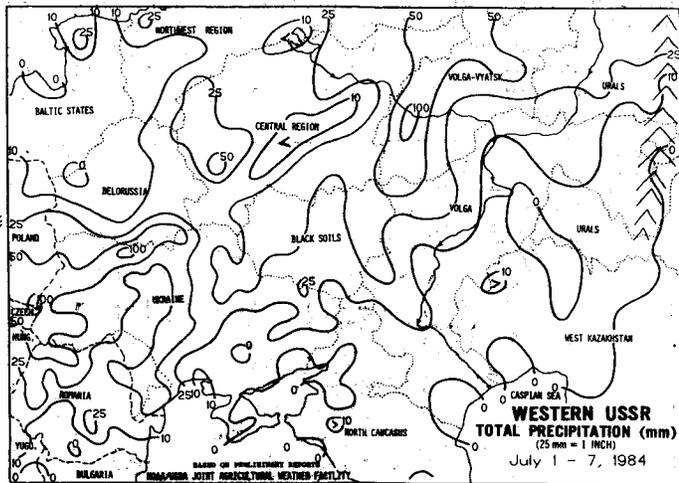
International Weather and Crop Summary

JULY 1 to 7



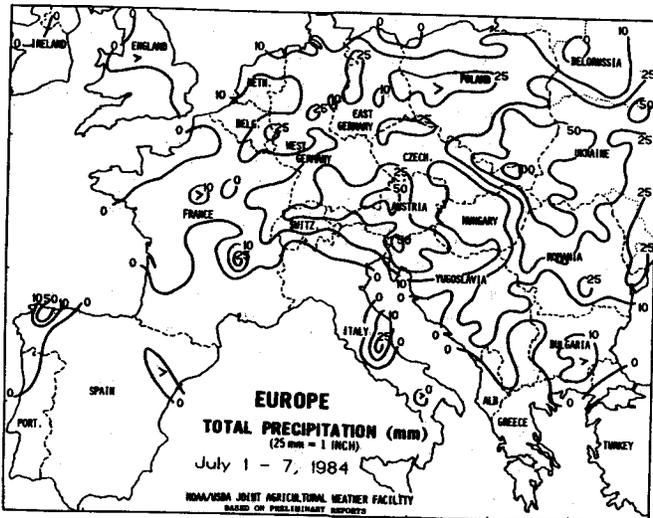
HIGHLIGHTS:

1. UNITED STATES ... Heavy rains reflowed some low-lying croplands in the southwestern Corn Belt, but replenish moisture in the eastern Corn Belt and much of the Southeast. Hot, dry conditions over the Southwest and into Central Texas stress crops, while abnormally cool weather slightly slows crop development over the north-central region.
2. USSR ... Wet weather continues to slow winter grain maturation in the central Ukraine, but relieves chronic dryness in the eastern Black Soils and central Volga Valley. Unfavorable dryness continues in the eastern Ukraine and northern North Caucasus. In the New Lands, unfavorably hot and dry weather covers southwestern spring wheat areas.
3. EUROPE ... Unfavorably dry weather continues to cover England and Ireland. Dry weather aids harvests in Spain and Italy. Timely rains continue to boost moisture supplies in Poland.
4. SOUTH ASIA ... Monsoon rains increase in central crop areas. Much of the cotton and groundnuts region suffers from below-normal moisture.
5. EASTERN ASIA ... Precipitation in the North China Plain benefits summer crops in the reproductive stage. Heavy rain in Korea supplies abundant moisture for rice.
6. SOUTHEAST ASIA ... Timely rain benefits corn in the reproductive stage.
7. CANADA ... Mild, generally dry weather promotes growth of rapeseed and spring wheat entering the weather-sensitive reproductive phase of development. Moisture is abundant in the northern extremities of the grain belt, but is limited across southern crop areas.
8. SOUTH AMERICA ... More showers keep fields wet in southern Brazil, hampering wheat development. Dry weather aids Brazil's coffee harvest, and Argentina's soybean harvest which is over 90-percent complete. Wheat planting is underway in Argentina but dryness in the west may slow planting.
9. MEXICO ... Rains help southern Plateau corn and west coast cotton and soybeans, while dryness stresses immature northeastern ranges.
10. AUSTRALIA ... Showers bring much needed rain for emerging winter wheat in South Wales, Victoria, and South Australia, but amounts are highly variable and more rain is needed to alleviate dry soils. Beneficial showers cover western wheat areas.



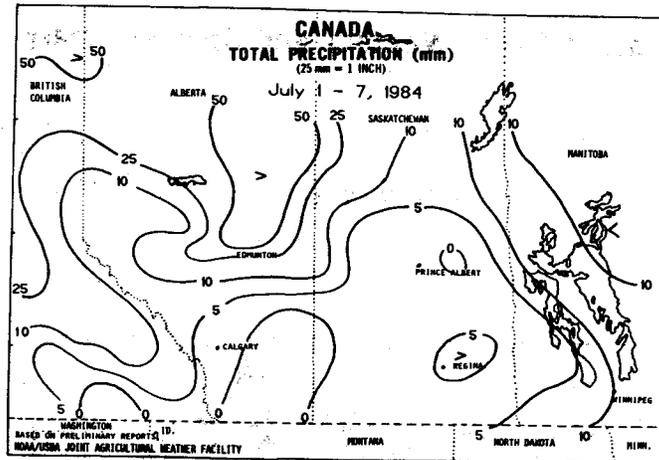
USSR...A variable precipitation pattern covered much of western USSR. Wet weather continued in the central Ukraine, western Black Soils, and the western portion of the Central Region, slowing winter grain maturation and creating the potential for crop lodging. Mostly dry weather followed a favorably moist precipitation pattern in the Baltic States and Belorussia, and aided winter grain harvesting in the southern Ukraine and the North Caucasus. Wet weather relieved chronic dryness in the eastern Black Soils and central Volga Valley, benefiting spring grains in the late filling stage, and corn and sunflowers in the vegetative stage. Persistent dryness in the eastern Ukraine and the northern North Caucasus remained unfavorable for corn and sunflowers in the early reproductive stages, but aided winter and spring grain maturation and harvest activity.

In the New Lands, most spring wheat is in the heading stage in the south, but some of the crop is likely in the highly weather sensitive flowering stage. In the southern Urals and central Kazakhstan, timely June rains allowed the normal growth of spring wheat, but unseasonably hot, dry weather this week continued a drying trend. Crops in these areas may begin to deteriorate; rain is needed soon to prevent potential yield declines. Showers and near-normal temperatures continued to favor crop growth in western Siberia and eastern Kazakhstan which produce about 30 percent of the spring wheat crop.

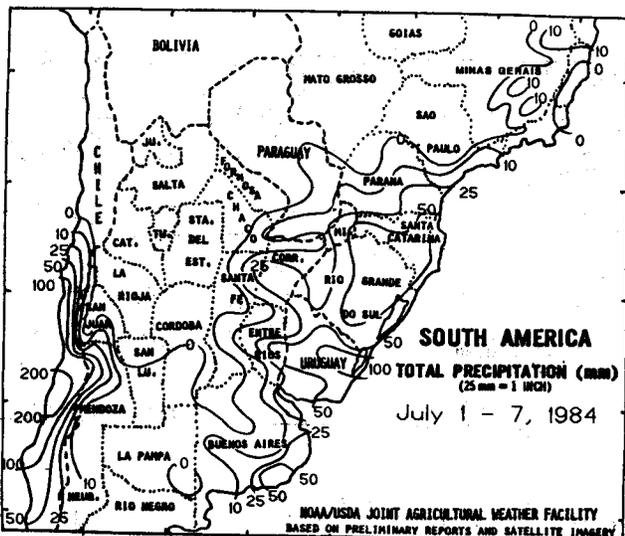


EUROPE...Mostly dry weather covered England and Ireland, a pattern which has stressed spring and winter crops since June. Mostly dry weather aided the winter and spring grain harvest in Spain and Italy, and grain maturation in France. Winter grains are likely in the filling stage across much of northern Europe, with spring grains in the heading stage. Precipitation during the growing season has been generally beneficial across the north, especially in Poland, but moisture conditions are likely too wet for crops in West Germany. Light showers maintained generally adequate moisture supplies for crops in Hungary, Yugoslavia, Romania, and Bulgaria. Crop progress may be 1 to 2 weeks behind normal in the southeast because of unseasonably cool temperatures since June.

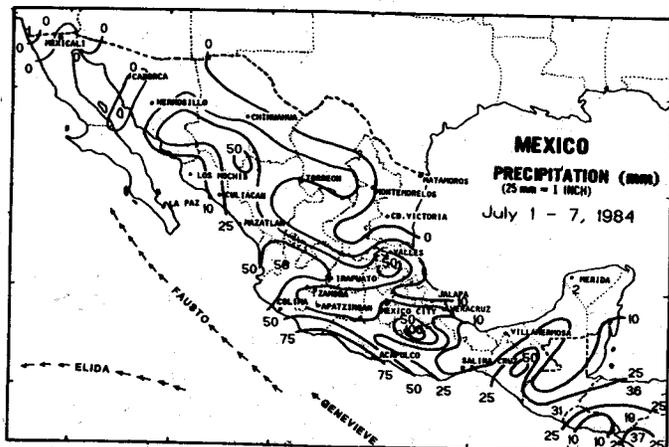
during the week. Weekly temperatures averaged slightly above normal but several days of subfreezing minimum temperatures occurred throughout the wheat belt.



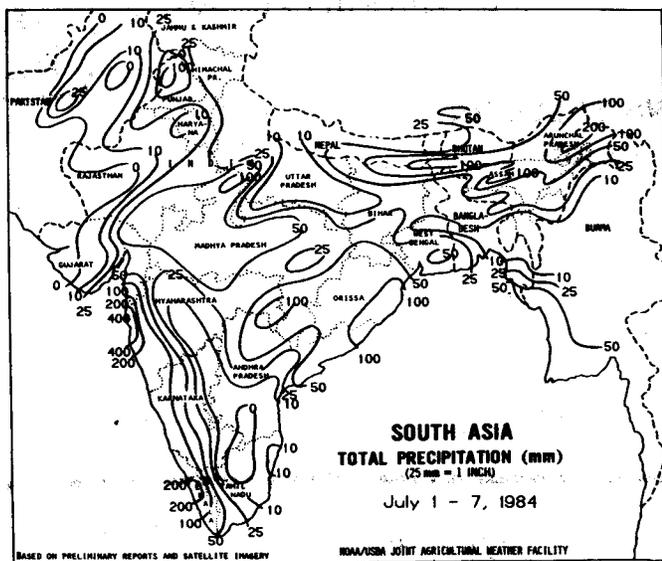
CANADA...Mild, and generally dry weather promoted crop growth across much of the Prairie Provinces. Weekly rainfall was less than 10 mm, except over the northwestern and northeastern extremities of the grain belt where locally heavy showers produced 15 to 50 mm of rain. Frequent showers from Edmonton northward maintained wet field conditions. Dry weather across northern crop areas of Saskatchewan improved growing conditions for rapeseed and spring wheat following persistent wetness. Earlier rains delayed planting across the north, but early sown rapeseed has entered the flowering stage. Spring wheat is advancing into the heading stage. Moisture is limited for crop development across southern portions of Saskatchewan and Alberta. Temperatures and rainfall during the next few weeks will affect yield potential as crops advance through the reproductive and grain-forming periods of development.



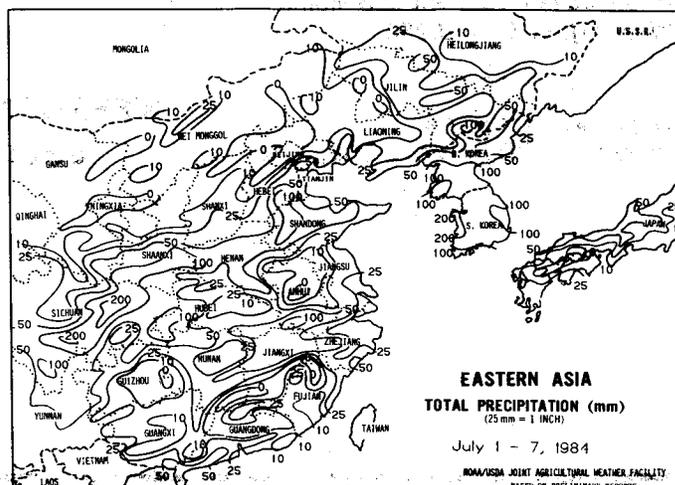
SOUTH AMERICA...Frequent periods of rain, with amounts averaging from 30 to over 70 mm, fell from Santa Catarina, Brazil, southward through Uruguay. Excessive wetness has been unfavorable for wheat establishment. Dry weather aided Brazil's coffee harvest. Showers in extreme eastern Argentina hampered late soybean harvesting, but mostly dry weather in Santa Fe, northern Buenos Aires, and Cordoba aided harvesting. The soybean harvest is over 90-percent complete in Argentina. Wheat planting is underway in Argentina but dryness in western crop areas, notably Cordoba, likely has delayed sowing. Planting extends through July and moisture will be needed for crop establishment. Southern wheat areas received beneficial rain



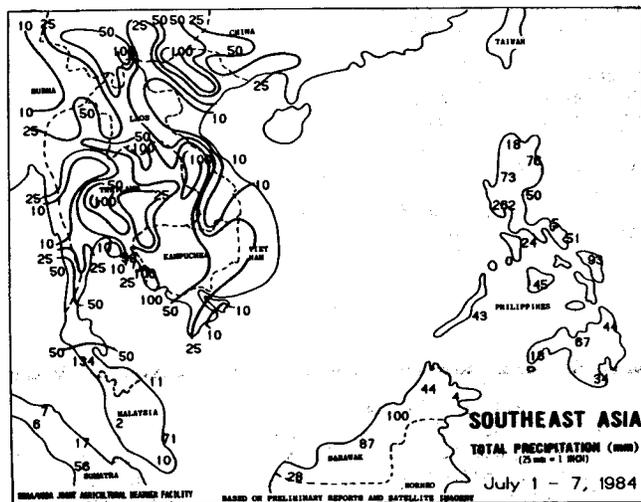
MEXICO...Rains benefited most major crop areas. Showers across the southern Plateau corn belt kept corn and beans developing well. Most of the west coast farming area had moderate rain which should help cotton, soybeans, and other summer crops, and replenish some reservoirs. The northeast and upper north-central area was mostly dry, stressing rangeland vegetation, but favoring grain harvesting. Heavy showers were scattered across Central America. The intertropical convergence zone off the southwestern Mexican coast was very active as tropical weather systems Elida, Fausto, and Genevieve, generally moved toward the west-northwest.



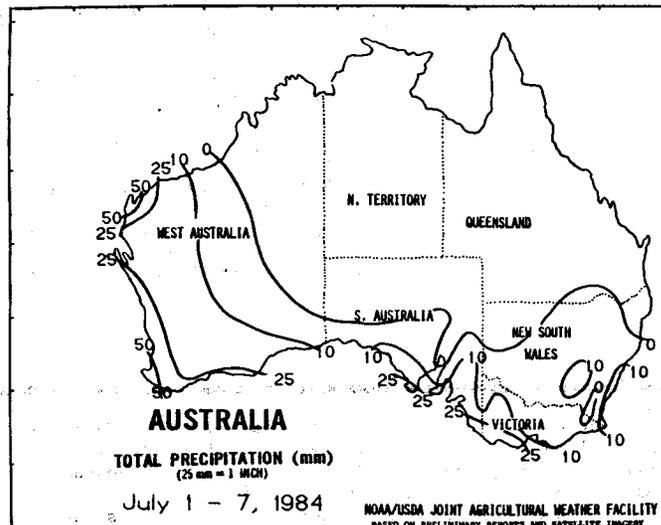
SOUTH ASIA...Extremely heavy rain (greater than 500 mm) deluged Bombay and vicinity early in the week. Flooding damaged rice in the area while lighter rain fell on the rest of the west coast. Monsoon precipitation in central India, benefited rice, cotton, and groundnuts in early stages of growth, following a 2-week interruption in late June. Precipitation advanced further west, from Orissa and northern Andhra Pradesh through western Madhya Pradesh and into Punjab and Haryana. Drier than normal weather persisted from Tamil Nadu and southern Andhra Pradesh through central Mayharashtra and Gujarat. The unfavorable weather is affecting rice in the southeast and cotton and groundnuts throughout this area. Inland crop areas of Gujarat have been particularly dry, however, the planting season normally extends through July.



EASTERN ASIA...Precipitation diminished in southern rice areas this week, however, this is a normal occurrence in July as the rains push further north. Moisture is generally adequate for rice but some dry pockets exist in Hunan and Jiangxi. Moderate to heavy rain (25-100 mm) in the North China Plain was mostly favorable for cotton, corn, and soybeans in the reproductive stage. Some localized flooding was possible in western Shandong and southern Hebei. Temperatures averaged cooler than normal in the North China Plain; warmer weather would benefit developing summer crops. Moderate rain (up to 50 mm) in Jilin was very beneficial for corn and soybeans in the reproductive stage, following below-normal precipitation during most of the season. Heavy rain from the remnants of Tropical Storm Alex covered Korea. Some flooding was likely along the western coast, but winds were relatively weak. Damage to rice in the vegetative stage is expected.



SOUTHEAST ASIA...Monsoon rains returned to much of Indochina following 2 weeks of relatively weak activity. Mostly dry weather occurred in Vietnam, while Laos, Kampuchea, and Thailand had generally good precipitation coverage. Rain was especially beneficial for corn in the reproductive stage in central Thailand. Dry weather in western Thailand dried northern areas following heavy rains 2 weeks ago. Near-normal temperatures maintained high evaporation rates for corn and rice, and more rain will be needed for favorable growing conditions. Rains continue to benefit most crop areas of the Philippines.



AUSTRALIA...Showers penetrated the dry crop areas of eastern Australia, bringing some relief for newly emerged winter wheat. In New South Wales, which normally produces about 40 percent of Australia's wheat crop, weekly rainfall ranged from 5 to 10 mm. Variable amounts of rain (2 to 21 mm) fell in Victoria and South Australia, which respectively average about 15 and 10 percent of the wheat crop. Seasonably cool weather kept crop moisture needs very low, but near-freezing minimum temperatures in dry areas limited crop establishment. The combination of unfavorably dry weather during planting over southeastern

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SECOND CLASS**

Australia and seasonably cold weather during July and August may lead to smaller than normal plant development prior to the weather-sensitive heading phase. Significant rain fell in Western Australia, maintaining adequate moisture supplies for wheat. Dry weather prevailed in Queensland.

(continued from p. 11)

Arizona. Plants bloomed and set bolls on 10 percent of the acreage, mainly across the extreme South as the month ended. Stands were rated fair to mostly good in all producing regions as June ended.

Sorghum planting was 53-percent finished at the beginning of June, ahead of the 50 percent average. Progress was 20 percentage points behind in Nebraska and 18 points behind in South Dakota. In contrast, Texas producers were 15 points ahead of normal. June rains continued to slow planting in the western Corn Belt. Planting advanced to 96 percent completion as June ended, compared with the 94 percent average. Only South Dakota lagged the average. Wet conditions left producers in that State with 79 percent of the acreage planted, 19 points slower than normal. By the month's end, 55 percent of the crop was heading in Texas, 43 percent was turning color, and 25 percent was mature. Harvesting was underway in the Lower Rio Grande Valley of Texas.

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