

WEEKLY WEATHER AND CROP BULLETIN

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

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

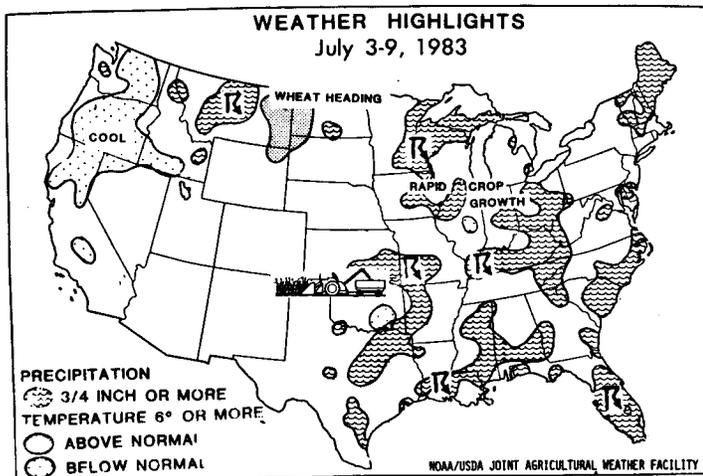
Volume 70, No. 28

WASHINGTON, D.C.

July 12, 1983

National Weather Summary

July 3 to 9



Texas through Arkansas and Missouri, northeastward through the Ohio Valley, and from Maryland to South Carolina. Lighter showers and thunderstorms covered the rest of the East except for New England. Afternoon temperatures were cooler over most of the Corn Belt but 90° readings reached into Kentucky.

TUESDAY...Moderate to heavy showers and thunderstorms covered the area from central Texas across the gulf coast States and most of the east coast States. Much cooler weather pushed in behind the rain and temperatures in the nineties were confined to the area along the gulf coast. Very warm weather covered the Southwest and maximum temperatures, in the high nineties, moved over the northern High Plains.

WEDNESDAY...A few showers lingered along the gulf coast, in Florida, along most of the east coast, and in northern New England. Cooler weather covered most of the East but very warm weather covered the Southwest, the Rockies, and the High Plains from Texas to North Dakota. The afternoon high temperature at Glasgow, Montana, reached 101°. Light showers and thunderstorms broke out from the central Plateau to the northern Rockies and over the northern High Plains into North Dakota.

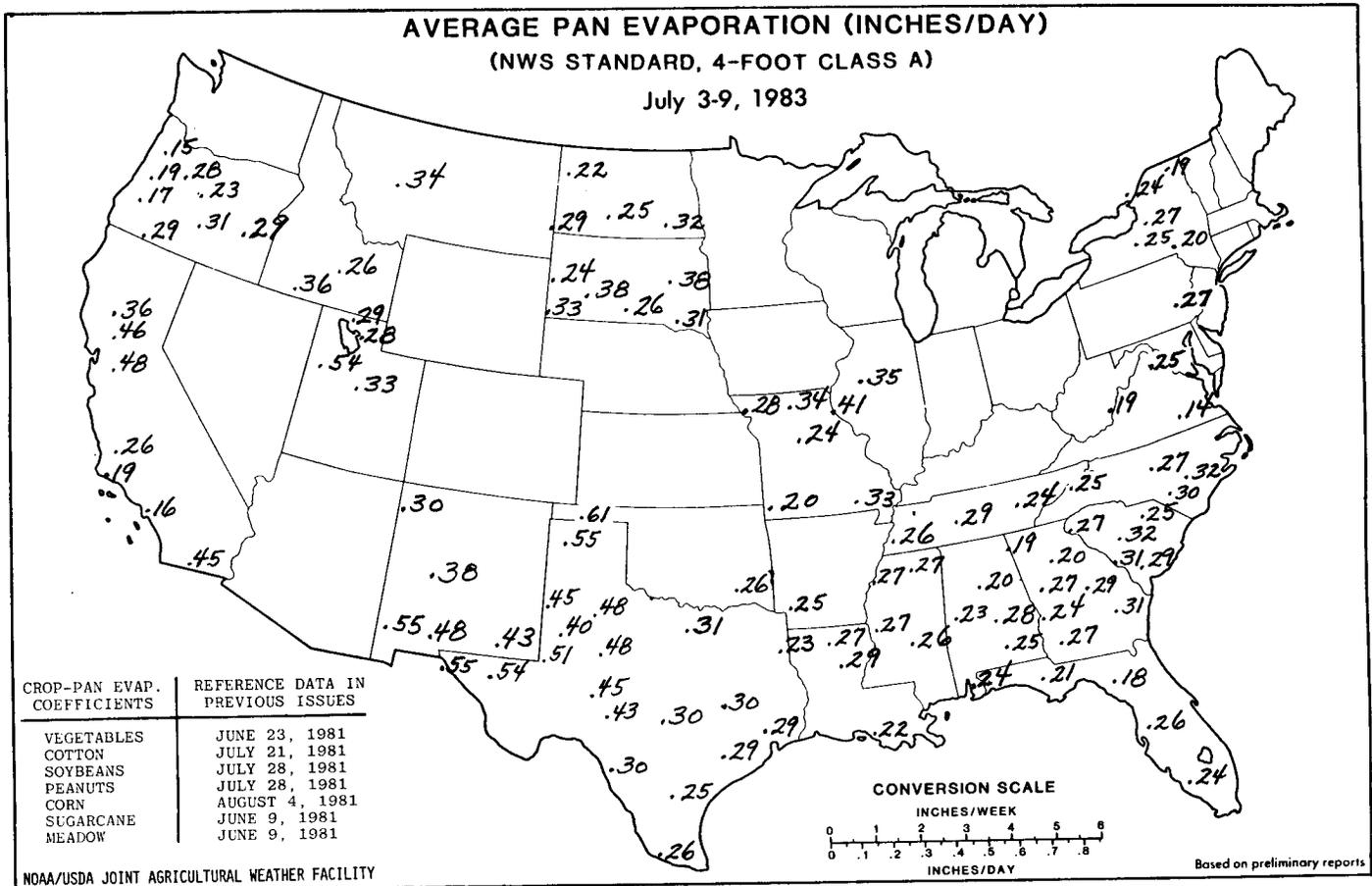
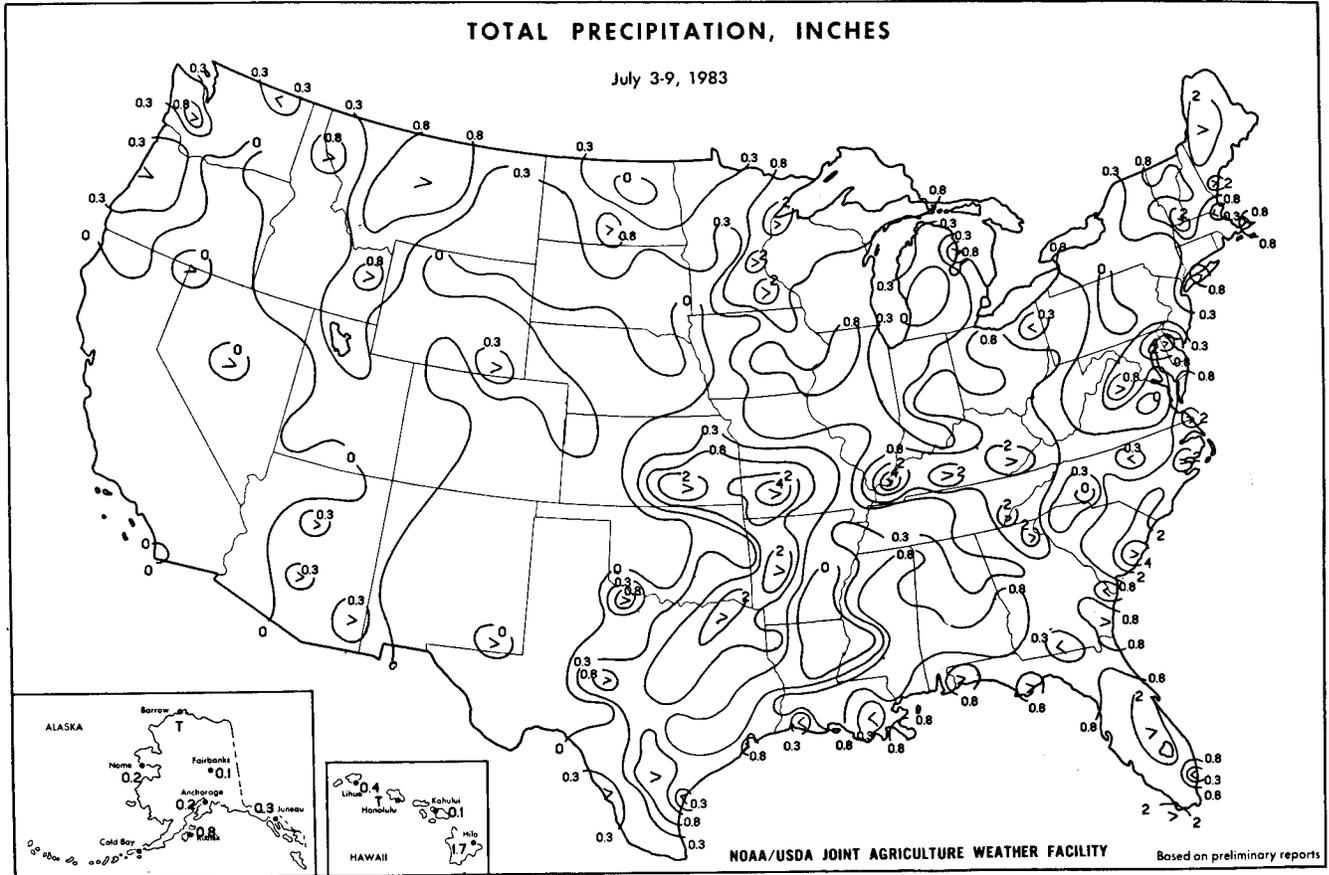
THURSDAY...Showers and thunderstorms were generally light but occasionally moderate from Arizona to western Montana and into the western part of the central Rockies. Very warm weather in much of this area increased the lingering snowmelt and worsened the flood conditions of many western rivers. The
(continued on p. 6)

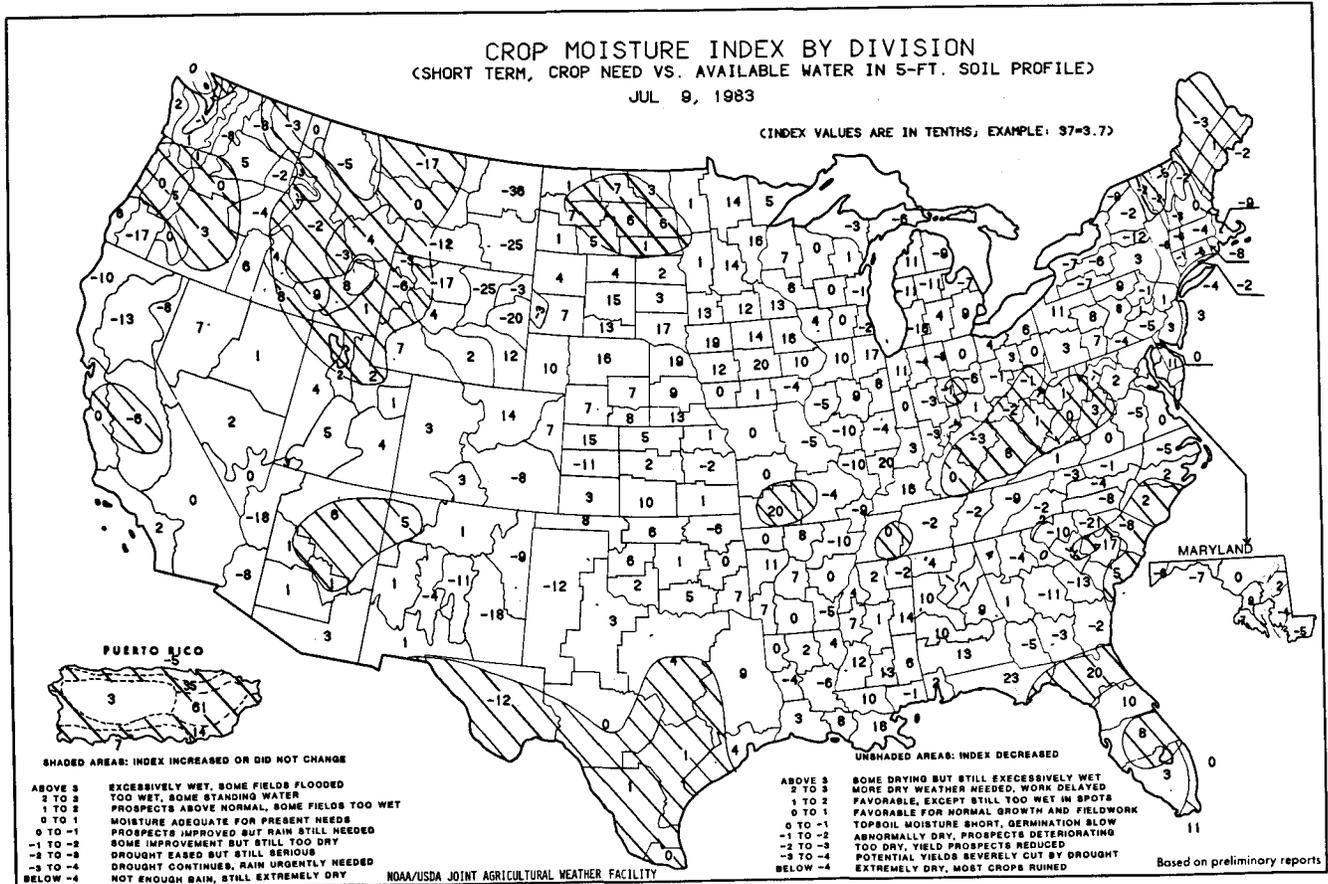
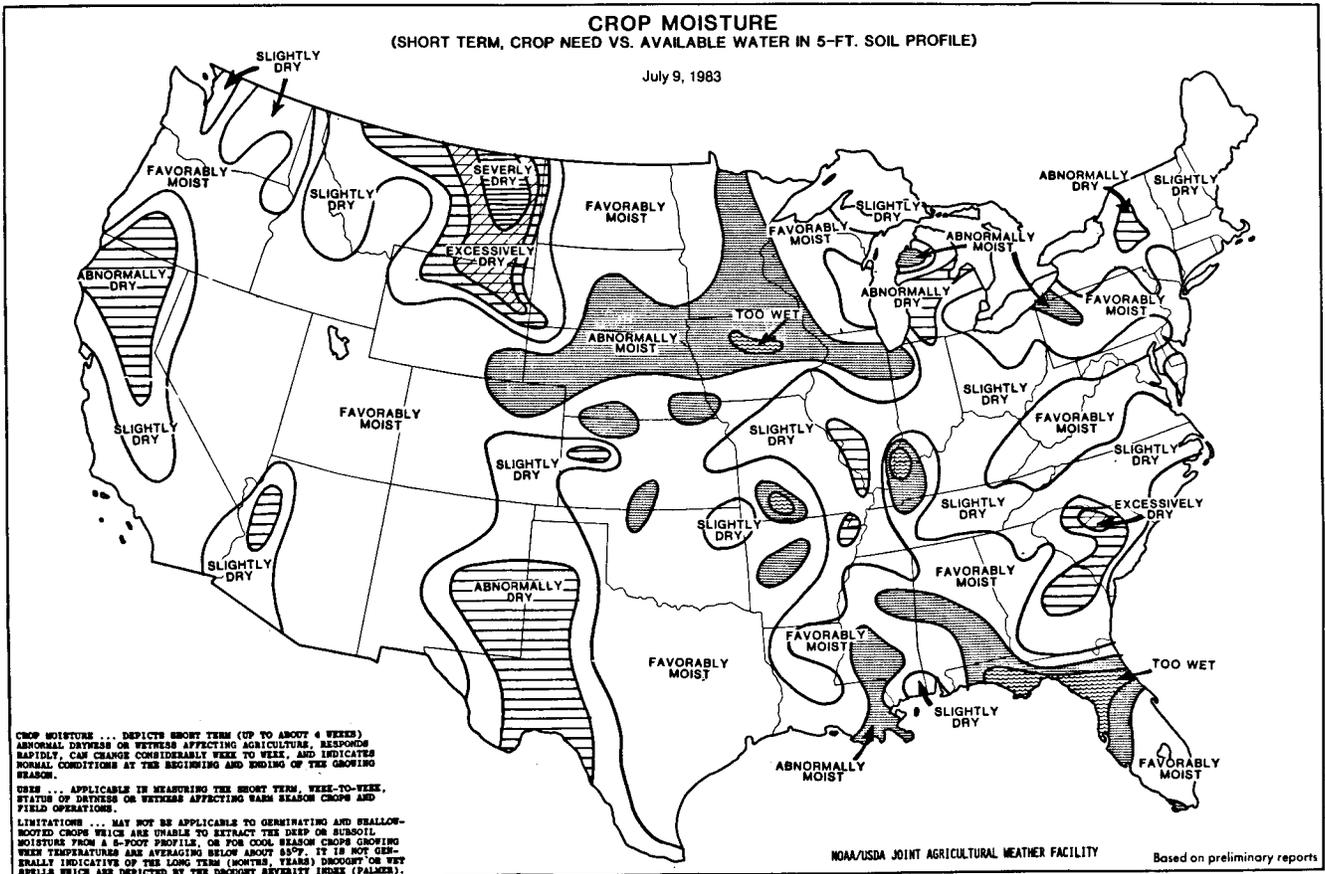
HIGHLIGHTS: A frontal system moved through the eastern part of the Nation early in the week and spread showers and thunderstorms from the eastern Plains to the east coast. The latter part of the week was rainless in most areas east of the High Plains. Some heavy storms occurred from southeastern Kansas into southwestern Missouri, from northeastern Texas into Arkansas, through southern Kentucky, and along the east coast. Light to moderate showers fell through the Corn Belt and moderate to heavy amounts fell in the northern Mississippi Valley. As the cold front moved East, much cooler air covered the area. Very warm air in the Southwest early in the week moved northward to the northern High Plains after midweek, and then began moving slowly eastward across the northern Plains and into the Midwest. Cooler than normal weather covered the west coast and pushed into the Northwest.

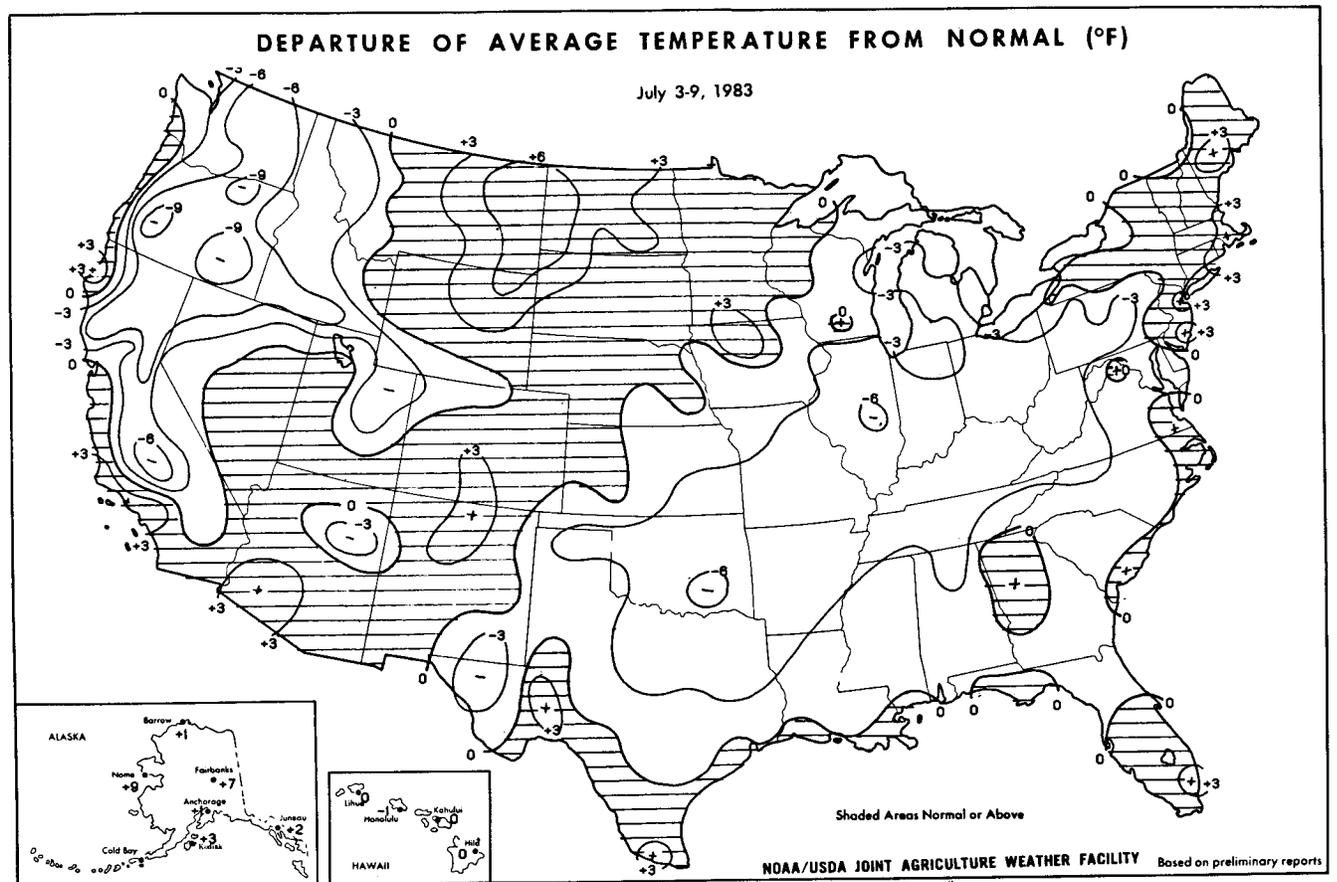
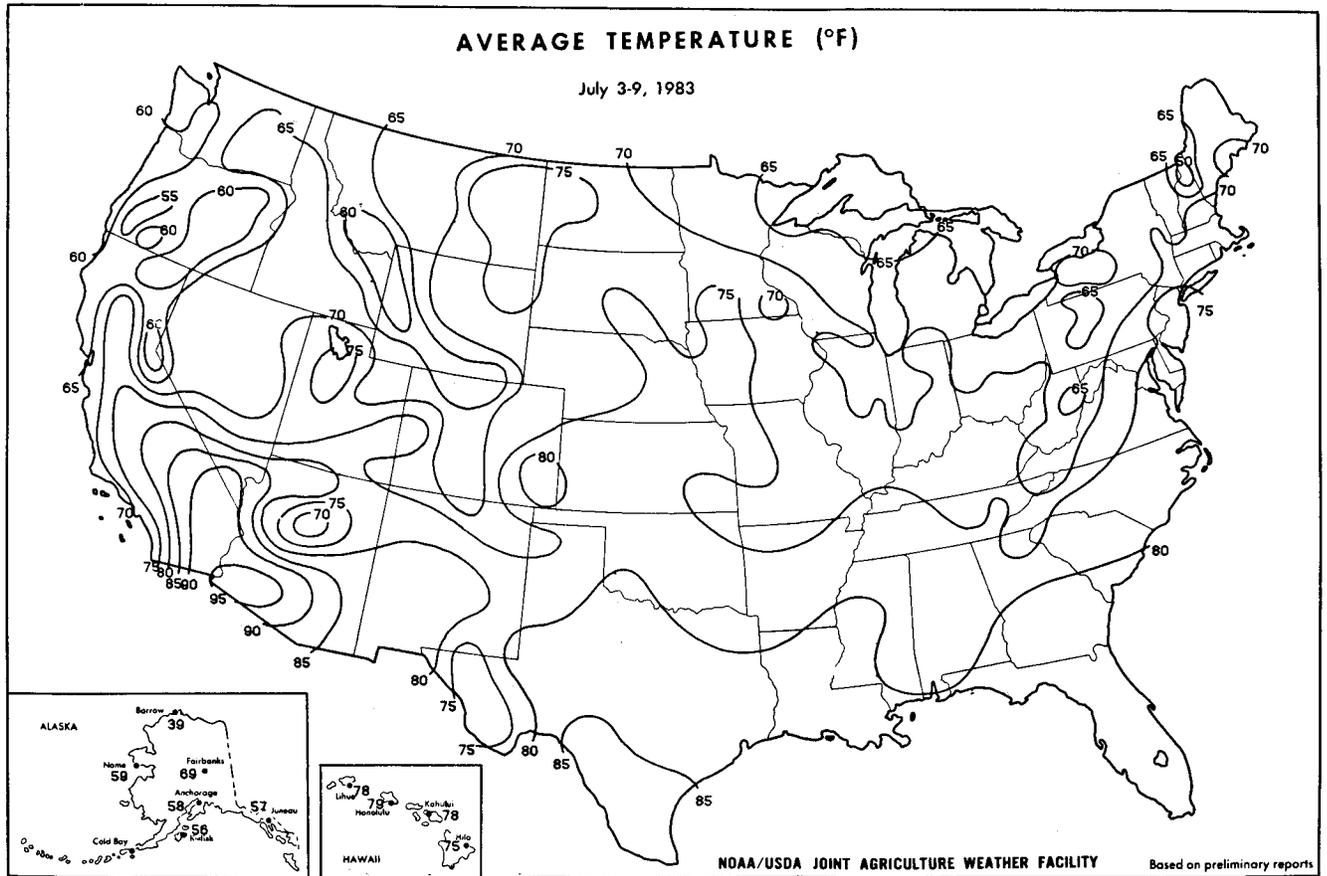
SUNDAY...A line of strong thunderstorms broke out in eastern Iowa and Minnesota and moved into Wisconsin, Illinois, and western Kentucky. Showers and thunderstorms were widely scattered from the Mississippi Delta to Florida, northward to the Ohio Valley, and eastward through the middle and southern Appalachians. A few showers covered the northern Rockies. High temperatures in the nineties reached into northern Illinois.

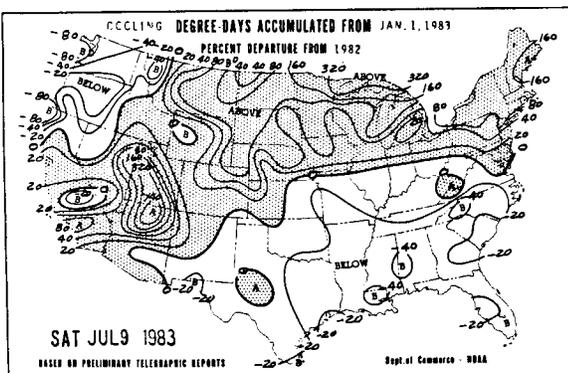
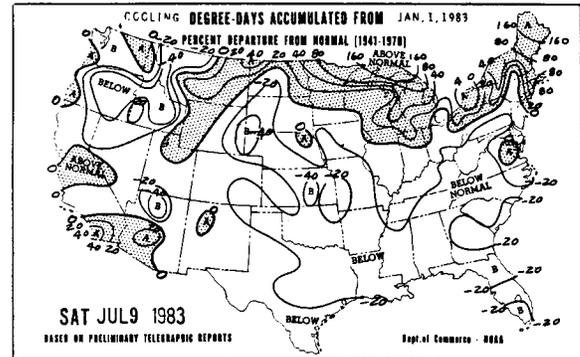
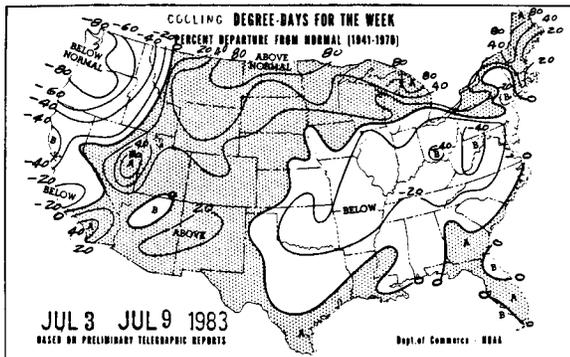
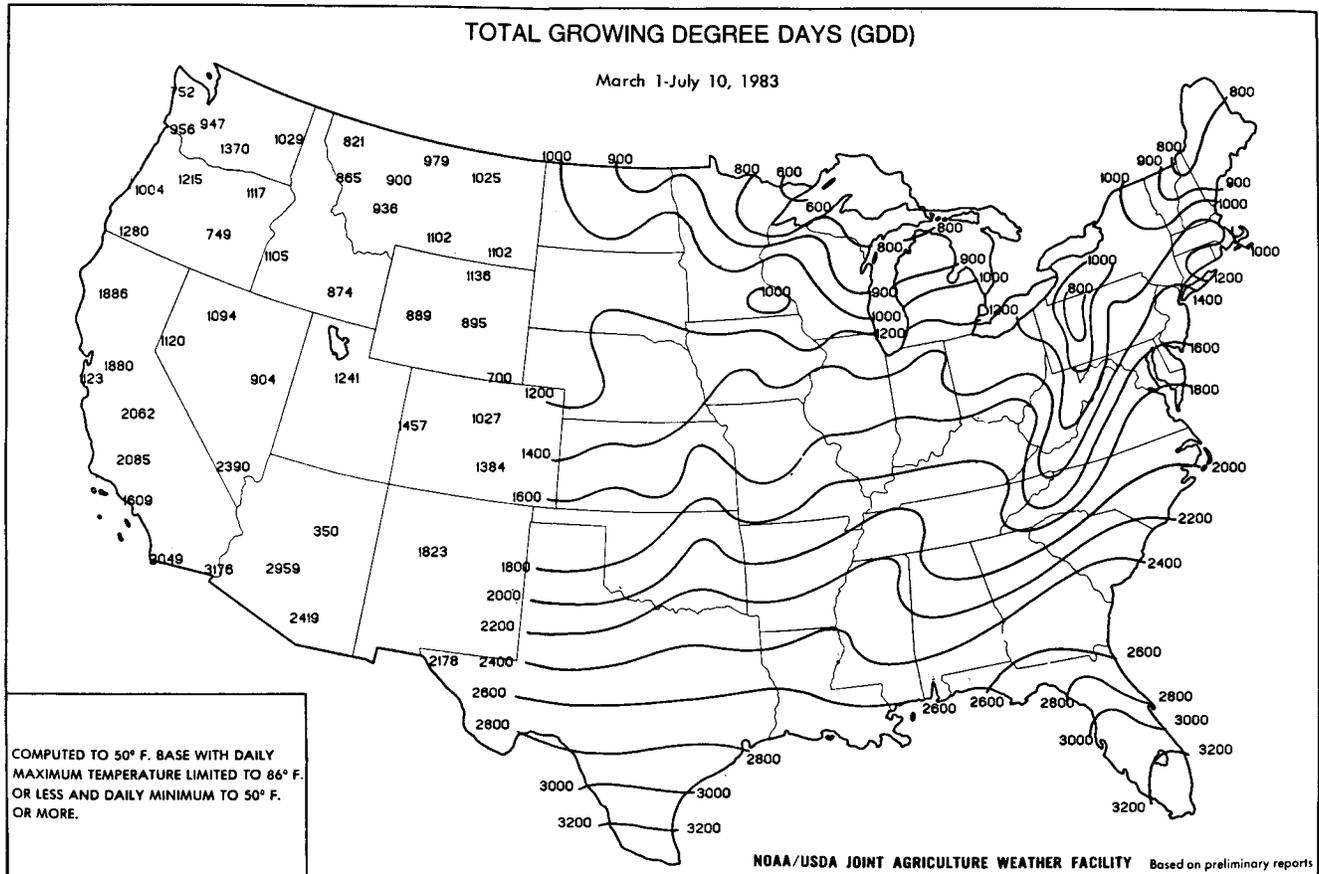
MONDAY...Light, widely scattered showers covered the northern Plains and extended into the Great Lakes region. Heavy showers and thunderstorms broke out during the afternoon from northeastern

Contents	Page
National Weather Summary	1
Precipitation & Pan Evaporation	2
Crop Moisture & Crop Moisture Index	3
Average Temperature & Departure	4
Growing Degree Days & Cooling Degree Days	5
Weather Data for Selected Cities	6
June Weather & Crop Summary	9
June Precipitation & Percent of Normal	10
June Temperature & Departure	11
June Weather Data for Selected Cities	12
National Agricultural Summary	13
Crop Progress & State Summaries of Weather & Agriculture	14
International Weather & Crop Summary	21
Subscription & Mailing Permit Information & June Heating Degree Days	24









(continued from p. 14)

	SORGHUM % PLANTED			SORGHUM % HEADED		
	1983	1982	AVG.	1983	1982	AVG.
COLO	96	97	99	0	0	0
KANS	95	85	98	0	0	0
MO	100	94	94	0	18	18
NEBR	100	100	100	0	0	0
OKLA	90	85	100	3	5	5
S DAK	100	100	100	0	0	0
TEX	99	100	100	64	67	64
7 STATES	98	95	99	27	30	28

THESE 7 STATES PRODUCED 90% OF THE 1982 SORGHUM CROP.

THESE 7 STATES PRODUCED 90% OF THE 1982 SORGHUM CROP.

Weather Data for the Week Ending July 9, 1983

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 MAY 29	PCT. NORMAL SINCE MAY 29	TOTAL, IN., SINCE JAN. 1	PCT. NORMAL SINCE JAN. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE °F			
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	87	67	91	60	77	-3	.4	-.8	.4	3.3	61	37.6	119	92	51	2	0	1	0
MOBILE	90	70	93	67	80	-2	.3	-1.3	.3	9.0	118	47.7	138	88	50	3	0	2	0
MONTGOMERY	89	68	92	64	79	-2	.7	-.5	.5	7.2	138	44.8	161	93	50	2	0	2	1
AK ANCHORAGE	64	52	68	49	58	0	.2	-.2	.2	1.2	80	3.7	77	86	55	0	0	3	0
BARROW	43	34	48	32	39	1	.7	-.2	.7	.1	17	.4	21	89	69	0	2	0	0
FAIRBANKS	78	59	85	56	69	7	.1	-.2	.1	.8	44	1.6	40	80	36	0	0	3	0
JUNEAU	65	50	76	45	57	2	.3	-.5	.1	2.9	66	16.7	78	95	58	0	0	3	0
KODIAK	61	50	68	45	56	3	.8	-.1	.4	10.3	215	48.3	157	95	70	0	0	3	0
NOME	68	50	75	40	59	9	.2	-.3	.1	.9	45	2.7	47	78	40	0	0	4	0
AZ PHOENIX	108	82	116	75	95	3	.3	-.2	.3	.3	75	5.5	177	45	15	7	0	2	0
PRESCOTT	88	62	96	56	75	3	.2	-.3	.1	.2	15	5.1	77	73	35	3	0	3	0
TUCSON	103	73	111	64	88	2	.1	-.3	.1	.1	14	4.3	123	46	16	7	0	3	0
YUMA	109	83	115	78	96	3	0	0	0	0	+100	1.3	144	43	17	7	0	0	0
AR FORT SMITH	87	67	91	59	77	-4	.1	-.6	-1	6.0	120	18.9	83	91	44	2	0	1	0
LITTLE ROCK	87	68	91	61	77	-4	.2	-.6	-1	3.4	72	25.3	90	86	52	3	0	2	0
CA BAKERSFIELD	91	61	103	54	76	-8	0	0	0	0	+100	6.9	192	69	25	3	0	0	0
EUREKA	67	53	70	49	60	4	T	0	T	1.6	200	36.7	162	90	62	0	0	0	0
FRESNO	92	62	102	55	77	-3	0	0	0	0	+100	16.3	243	60	21	4	0	0	0
LOS ANGELES	74	63	78	61	69	1	0	0	0	0	+100	20.6	261	84	57	0	0	0	0
RED BLUFF	89	61	102	56	75	-6	0	0	0	.2	40	29.3	234	61	20	3	0	0	0
SACRAMENTO	87	54	99	48	71	-4	0	0	0	.4	400	23.7	230	82	25	1	0	0	0
SAN DIEGO	76	66	84	65	71	2	T	0	T	0	+100	14.2	233	85	55	0	0	1	0
SAN FRANCISCO	74	53	81	49	64	2	0	0	0	0	0	25.4	213	78	44	0	0	0	0
CO DENVER	88	57	94	49	73	0	0	-.4	0	3.4	148	13.3	151	67	22	4	0	0	0
GRAND JUNCTION	94	64	103	56	79	1	.1	-.1	.1	1.9	380	7.1	178	68	23	4	0	3	0
PUEBLO	96	59	101	53	77	1	0	-.4	0	2.5	147	8.0	143	61	18	6	0	0	0
CT BRIDGEPORT	83	65	89	57	74	1	.5	-.2	.5	4.7	112	34.4	169	91	55	0	0	1	1
HARTFORD	86	61	95	53	74	1	.7	0	.7	4.5	98	33.4	150	82	44	2	0	3	1
DC WASHINGTON	86	68	94	61	77	-2	.6	-.3	.6	8.5	177	28.9	147	84	49	2	0	2	1
FL APALACHICOLA	89	73	91	69	81	0	1.0	-.6	.5	9.0	125	36.1	150	92	62	2	0	3	0
DAYTONA BEACH	89	71	91	69	80	-1	T	-1.3	T	9.8	114	32.5	148	94	60	3	0	1	0
JACKSONVILLE	89	71	92	68	80	-1	.9	-.5	.7	9.7	128	35.0	138	96	61	4	0	3	1
KEY WEST	88	79	89	76	83	-1	3.3	-2.4	1.6	9.4	140	39.0	242	87	64	0	0	4	3
MIAMI	91	79	93	75	85	3	.2	-1.3	.2	10.6	88	28.8	107	86	54	7	0	2	0
ORLANDO	91	74	93	72	82	0	2.0	-.2	.7	11.4	112	30.6	125	95	56	5	0	5	3
TALLAHASSEE	92	71	93	64	81	0	.8	-1.2	.4	10.3	106	45.0	136	98	53	7	0	3	0
TAMPA	90	73	92	70	82	0	.9	-.6	.4	12.6	164	31.7	147	98	59	4	0	6	0
WEST PALM BEACH	91	76	92	74	84	2	1.7	-.1	1.3	15.0	138	42.6	155	88	54	7	0	3	1
GA ATLANTA	87	68	91	66	78	0	T	-1.0	T	2.4	48	23.1	84	88	47	2	0	1	0
AUGUSTA	92	67	95	56	79	-1	.6	-.4	.4	5.6	100	29.4	122	78	42	4	0	3	0
MACON	92	69	95	60	81	0	.6	-.5	.6	7.0	127	31.7	121	89	44	5	0	1	1
SAVANNAH	91	72	96	65	81	0	.3	-1.4	.3	6.3	75	32.7	127	85	47	3	0	1	0
HI HILO	80	70	82	67	75	0	1.7	-.1	.4	7.0	75	30.2	45	93	68	0	0	7	0
HONOLULU	86	73	87	72	79	-1	T	-1.1	T	.2	29	1.7	13	88	52	0	0	2	0
KAHULUI	84	72	85	69	78	0	.1	-.1	.1	.2	67	3.0	27	81	58	0	0	3	0
LIHUE	83	73	84	72	78	0	.4	0	.2	1.2	52	6.0	26	81	59	0	0	5	0
ID BOISE	82	53	94	40	68	-5	.2	-.2	.2	1.2	109	11.3	155	76	23	1	0	2	0
LEWISTON	81	56	95	52	69	-4	T	-1.1	T	1.7	94	7.9	111	76	29	1	0	1	0
POCATELLO	84	49	96	39	67	-3	.7	-.5	.7	2.0	133	9.5	142	73	23	3	0	1	1
IL CHICAGO	80	56	89	45	68	-5	.1	-.8	.1	7.2	131	26.6	149	91	49	0	0	2	0
MOLINE	83	60	92	52	72	-3	1.1	0	.8	8.0	131	19.6	99	89	46	1	0	2	1
PEORIA	83	59	92	51	71	-4	.7	-.3	.7	5.4	96	23.3	123	86	47	1	0	1	1
QUINCY	86	61	94	51	73	-3	.3	-.6	.3	1.4	25	15.7	80	87	40	2	0	1	0
ROCKFORD	81	58	89	47	70	-3	.8	-.3	.5	4.5	70	17.7	88	85	47	0	0	2	1
SPRINGFIELD	84	61	93	53	72	-3	.5	-.3	.5	3.1	61	17.6	95	89	47	2	0	1	1
IN EVANSVILLE	86	61	91	52	74	-4	.8	-.1	.5	5.4	108	31.6	129	86	42	2	0	2	1
FORT WAYNE	83	59	90	51	71	-2	.4	-.3	.4	4.3	86	16.6	86	89	44	2	0	1	0
INDIANAPOLIS	83	59	90	51	71	-4	1.2	-.2	1.2	6.0	107	20.1	93	85	47	1	0	1	1
SOUTH BEND	81	60	89	50	71	-1	T	-.8	T	3.4	69	17.3	90	83	46	0	0	1	0
IA DES MOINES	86	63	92	61	75	-1	.8	-.1	.8	5.4	98	19.9	118	82	48	2	0	1	1
SIOUX CITY	87	60	95	54	73	-2	T	-.8	T	4.6	87	17.2	124	79	42	3	0	0	0
WATERLOO	83	61	90	51	72	0	.8	-.4	.8	7.5	119	21.3	120	86	46	2	0	1	1
KS CONCORDIA	89	64	95	60	77	-1	.1	-.7	.1	3.7	64	14.9	101	84	34	4	0	1	0
DODGE CITY	94	67	98	59	80	1	0	-.7	0	5.6	130	15.7	138	66	27	6	0	0	0
GOODLAND	92	61	99	51	76	1	.1	-.5	.1	2.7	71	10.1	107	70	22	4	0	1	0
TOPEKA	87	65	93	60	76	-2	.6	-.4	.4	6.6	97	23.6	134	91	49	1	0	2	0
WICHITA	88	63	96	58	75	-5	3.9	3.0	2.3	11.2	196	26.1	174	91	42	2	0	2	2
KY BOWLING GREEN	84	62	90	53	73	-5	2.9	-1.9	1.2	6.4	102	34.5	117	96	51	1	0	3	3
LEXINGTON	85	61	91	53	73	-3	.6	-.6	.6	3.7	60	23.8	92	83	38	1	0	1	1
LOUISVILLE	84	62	91	55	73	-4	.3	-.7	.3	4.8	91	26.8	106	83	42	1	0	1	0
LA ALEXANDRIA	92	72	95	63	82	-1	T	-1.1	T	2.9	50	31.3	99	87	48	7	0	0	0
BATON ROUGE	90	72	92	68	81	-1	.7	-.7	.7	11.5	217	46.5	158	89	48	5	0	2	1
LAKE CHARLES	91	74	93	70	83	0	.1	-1.1	.1	4.3	69	29.2	108	92	57	7	0	1	0
NEW ORLEANS	90	74	93	72	82	0	.3	-1.2	.1	11.0	159	50.1	163	90	54	3	0	3	0

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

National Weather Summary (continued from front cover)

area of unusually warm weather moved eastward into the Plains. Showers and thunderstorms remained over Florida, but the rest of the area east of the Rockies was generally clear.

FRIDAY...The showers and thunderstorms in the West were in the same pattern as on Thursday. A few

light showers developed in western North Dakota but eastern Montana remained dry. Showers and thunderstorms continued in Florida and spread from New England through New York. Relatively cool weather remained over the East, but the warmer area moved into the upper Mississippi Valley, to the middle of the central Plains, and over most of the southern Plains.

Weather Data for the Week Ending July 9, 1983

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 MAY 29	PCT. NORMAL SINCE MAY 29	TOTAL, IN., SINCE JAN. 1	PCT. NORMAL SINCE JAN. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERA- TURE °F		PRECIPI- TATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
ME SHREVEPORT	90	71	93	65	81	-2	.6	-.3	.6	7.6	149	31.6	123	88	53	3	0	1	1
ME CARIBOU	76	56	92	43	66	1	1.5	.7	1.0	3.5	78	19.5	119	93	46	2	0	4	1
ME PORTLAND	79	58	87	51	68	2	1.1	.4	.8	5.1	119	34.9	161	93	55	0	0	2	1
MD BALTIMORE	85	63	95	55	74	-2	1.1	.3	1.1	7.0	137	32.2	155	90	46	2	0	2	1
MD SALISBURY	86	63	97	52	74	-1	.4	-.5	.3	5.4	106	27.4	123	98	57	2	0	3	0
MA BOSTON	87	69	98	66	78	5	.2	-.4	.1	2.0	51	30.5	139	88	46	2	0	3	0
MA CHATHAM	77	62	83	59	70	3	.8	.2	.7	3.9	103	34.7	148	93	69	0	0	3	1
MI ALPENA	80	53	93	40	66	1	.1	-.7	.1	3.4	76	18.9	129	91	42	1	0	1	0
MI DETROIT	80	57	89	48	69	-3	.2	-.5	.2	5.9	128	18.7	113	84	47	0	0	1	0
MI FLINT	79	57	89	46	68	-2	T	-.6	T	4.3	98	15.9	101	88	50	0	0	1	0
MI GRAND RAPIDS	79	56	89	41	68	-3	0	-.7	0	2.7	52	17.6	101	87	47	0	0	0	0
MI HOUGHTON LAKE	77	55	87	37	66	-1	T	-.7	T	2.3	53	13.7	101	86	44	0	0	1	0
MI LANSING	79	56	90	44	68	-2	T	-.7	T	4.7	102	17.4	109	87	46	1	0	0	0
MI MARQUETTE	77	50	87	38	63	-1	.9	-.1	.9	6.3	119	22.9	122	93	49	0	0	2	1
MI MUSKEGON	77	58	87	41	67	-2	.1	-.4	.1	2.8	78	13.6	86	87	50	0	0	1	0
MI SAULT STE. MARIE	75	49	88	36	62	-1	1.5	-.8	.7	5.1	111	16.7	111	92	52	0	0	4	1
MN ALEXANDRIA	82	61	93	47	71	2	.5	-.2	.5	5.3	100	9.3	73	89	51	3	0	2	0
MN DULUTH	76	55	83	41	65	1	3.1	-2.2	2.5	5.5	102	13.5	96	91	57	0	0	2	2
MN INT'L FALLS	77	55	90	37	66	0	.3	-.7	.2	5.8	112	9.6	81	97	61	1	0	2	0
MN MINNEAPOLIS	84	63	93	54	74	1	1.7	.9	1.7	7.2	131	22.0	165	79	52	2	0	2	1
MN ROCHESTER	80	58	90	48	69	-1	1.4	-.4	1.4	7.3	124	17.5	121	93	53	1	0	1	1
MS GREENWOOD	90	71	93	61	80	-2	1.1	-.1	1.1	8.0	157	42.8	139	92	51	4	0	1	1
MS JACKSON	90	72	94	66	81	-1	T	-.9	T	3.2	71	48.6	163	93	47	4	0	0	0
MS MERIDIAN	89	68	91	62	79	-2	1.0	-.2	1.0	7.9	146	46.3	152	99	55	2	0	1	1
MO CAPE GIRARDEAU	87	64	93	55	75	-	.6	-.3	.5	3.2	63	26.8	108	97	46	3	0	2	0
MO COLUMBIA	83	62	91	58	73	-5	.3	-.6	.3	4.2	79	21.6	111	92	52	1	0	1	0
MO KANSAS CITY	86	65	93	61	76	-2	.2	-.9	.1	5.1	80	20.7	111	88	45	1	0	2	0
MO SAINT LOUIS	86	63	95	54	75	-4	.2	-.7	.2	4.6	85	23.3	122	93	40	2	0	1	0
MO SPRINGFIELD	84	61	93	55	73	-5	4.5	-3.6	4.5	6.7	108	24.7	115	92	50	1	0	1	1
MT BILLINGS	89	57	100	48	73	2	.1	-.1	.1	1.1	41	5.1	55	75	22	4	0	2	0
MT GLASGOW	92	60	104	49	76	7	.2	-.2	.2	1.1	33	-3.6	51	77	26	5	0	1	0
MT GREAT FALLS	83	52	96	46	68	0	1.0	-.7	.7	4.1	117	7.7	79	83	29	2	0	3	1
MT HAVRE	83	54	97	47	69	0	1.0	-.6	.5	2.5	89	7.0	99	89	33	3	0	4	0
MT HELENA	83	52	96	40	67	.1	1.2	-.9	1.2	3.8	146	6.5	100	79	28	3	0	2	1
MT KALISPELL	74	49	86	43	61	-2	.2	-.1	.2	3.7	132	10.3	117	93	43	0	0	7	0
MT MILES CITY	93	64	107	55	79	6	.2	-.3	.2	1.8	49	4.3	49	72	20	5	0	1	0
MT MISSOULA	75	49	88	37	62	-4	.2	-.1	.1	2.9	116	9.0	120	90	41	0	0	2	0
NE GRAND ISLAND	89	62	97	55	75	-1	0	-.7	0	6.5	125	16.8	123	76	34	3	0	0	0
NE LINCOLN	89	64	94	60	77	0	0	-.8	0	7.7	145	19.2	132	84	35	4	0	0	0
NE NORFOLK	89	63	95	56	76	1	T	-.8	T	7.2	124	17.7	125	75	34	3	0	1	0
NE NORTH PLATTE	88	58	96	47	73	0	T	-.8	T	3.3	65	10.6	89	73	30	4	0	0	0
NE OMAHA	87	64	91	56	75	0	0	-.8	0	5.0	88	19.4	123	82	41	3	0	0	0
NE SCOTTSBLUFF	93	54	101	41	73	0	.1	-.5	.1	2.1	51	10.6	113	76	21	5	0	1	0
NE VALENTINE	88	59	99	47	74	0	0	-.6	0	6.6	165	14.3	140	72	33	4	0	0	0
NV ELY	85	49	91	37	67	1	T	-.1	T	2.3	209	8.6	165	60	18	1	0	0	0
NV LAS VEGAS	104	78	110	70	91	2	0	-.1	0	0	0	2.4	120	27	11	7	0	0	0
NV RENO	87	48	98	38	68	-1	0	-.1	0	.5	83	6.7	160	61	17	2	0	0	0
NV WINNEMUCCA	85	47	94	43	66	-5	T	-.1	T	1.2	109	6.0	118	51	15	4	0	0	0
NH CONCORD	84	57	95	47	71	2	1.4	-.8	1.4	5.3	129	28.2	158	95	41	2	0	1	1
NJ ATLANTIC CITY	89	67	96	56	78	4	0	-.8	0	3.8	93	27.1	126	86	42	3	0	0	0
NM ALBUQUERQUE	97	67	98	60	82	3	0	-.2	0	1.3	144	4.0	133	40	16	7	0	0	0
NM CLOVIS	91	62	99	60	77	-1	0	-.7	0	2.4	65	5.5	69	68	21	4	0	0	0
NM ROSWELL	94	67	102	65	80	-1	0	-.3	0	.9	64	2.9	85	50	23	7	0	0	0
NY ALBANY	81	60	94	52	71	0	.2	-.5	.2	2.8	61	27.5	156	98	55	2	0	2	0
NY BINGHAMTON	79	59	90	51	69	1	.1	-.8	T	5.0	100	23.7	129	82	41	2	0	2	0
NY BUFFALO	80	60	97	51	70	0	.2	-.5	.1	3.7	100	15.0	83	79	42	2	0	3	0
NY NEW YORK	85	66	95	61	76	0	.3	-.5	.3	3.4	76	32.8	153	82	46	2	0	1	0
NY ROCHESTER	81	61	93	50	71	0	.1	-.5	T	3.0	79	14.6	91	85	41	2	0	3	0
NY SYRACUSE	81	58	93	49	70	-1	.2	-.7	.1	2.6	51	16.8	85	93	43	2	0	3	0
NC ASHEVILLE	83	60	88	53	72	-1	.6	-.4	.4	4.5	75	28.6	113	100	58	0	0	2	0
NC CHARLOTTE	88	66	94	60	77	-1	T	-.9	T	3.8	76	22.7	97	88	39	3	0	0	0
NC GREENSBORO	85	63	91	54	74	-2	.6	-.3	.5	7.2	129	26.7	119	87	45	2	0	2	1
NC HATTERAS	83	73	87	69	78	1	.3	-.9	.3	5.7	84	36.4	144	87	64	0	0	1	0
NC NEW BERN	88	69	92	62	79	0	2.1	-.6	1.6	7.2	95	33.2	129	90	57	2	0	2	2
NC RALEIGH	87	64	94	55	76	-1	.2	-.7	.2	3.4	63	28.4	129	90	47	2	0	1	0
NC WILMINGTON	89	71	92	65	80	0	2.0	-.3	.9	9.3	113	34.0	132	90	58	3	0	3	2
ND BISMARCK	82	60	94	51	71	2	.8	-.3	.8	3.8	97	8.1	87	90	51	2	0	2	1
ND FARGO	82	59	92	40	71	1	.1	-.7	.1	4.1	93	9.2	92	92	53	3	0	2	0
ND GRAND FORKS	80	57	91	37	68	0	.1	-.6	.1	5.3	136	9.7	109	95	61	2	0	2	0
ND WILLISTON	92	63	100	52	77	9	.3	-.2	.2	1.8	51	5.1	65	82	32	5	0	2	0
OH AKRON-CANTON	79	57	89	48	68	-3	.2	-.7	.2	2.9	60	19.1	97	89	51	0	0	1	0
OH CINCINNATI	83	60	89	53	72	-3	1.0	-.1	.7	3.2	56	21.6	93	85	41	0	0	2	1
OH CLEVELAND	80	59	92	49	69	-2	.5	-.3	.5	6.0	122	19.4	101	89	52	1	0	1	0
OH COLUMBUS	81	58	89	48	70	-4	.5	-.4	.5	5.7	102	19.4	92	91	44	0	0	1	1

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

SATURDAY...Light showers fell in northern Arizona, parts of the central Plateau, and the western central Rockies. Moderate to heavy thunderstorms developed from Salt Lake City northward to southwestern Montana and then northeastward into

Canada. The dry area of northeastern Montana received over an inch of rain during numerous light showers. A few very light showers fell in the eastern Corn Belt. Warm weather covered most of the Plains and began to push into the central Corn Belt.

Weather Data for the Week Ending July 9, 1983

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 MAY 29	PCT. NORMAL SINCE MAY 29	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
DAYTON	80	58	86	48	69	-5	.4	-.4	.4	6.5	123	20.2	100	83	42	0	0	3	0
TOLEDO	79	56	89	47	68	-4	.6	-.2	.6	5.2	106	16.3	97	92	51	0	0	1	0
YOUNGSTOWN	79	56	90	45	68	-2	.2	-.7	.2	6.2	119	19.9	99	90	48	1	0	1	0
OK OKLAHOMA CITY	87	66	92	61	77	-5	T	-.8	T	4.6	84	19.4	108	85	43	1	0	0	0
TULSA	89	68	94	63	79	-4	.1	-.8	.1	2.0	32	19.5	93	91	48	2	0	0	0
OR ASTORIA	67	53	73	50	60	1	.1	-.2	.1	5.9	184	44.3	127	90	55	0	0	1	0
BURNS	73	42	86	34	58	-10	0	-.1	0	1.8	164	10.6	180	82	32	0	0	0	0
MEDFORD	79	52	92	45	65	-6	.1	0	.1	.9	113	12.6	122	89	32	1	0	1	0
PENDLETON	76	51	88	48	64	-9	T	-.1	T	1.5	188	8.1	127	75	30	0	0	1	0
PORTLAND	72	54	82	50	63	-4	.5	-.4	.5	3.0	176	27.0	138	86	51	0	0	1	1
SALEM	72	49	82	40	61	-5	.4	-.3	.3	3.6	240	33.0	153	86	47	0	0	2	0
PA ALLENTOWN	85	63	93	54	74	0	T	T	T	5.5	110	28.1	128	81	44	2	0	1	0
ERIE	78	59	92	49	68	0	.3	-.5	.3	4.7	90	17.2	91	81	52	1	0	1	0
HARRISBURG	82	61	91	52	72	-4	0	-.8	0	3.3	65	26.7	133	88	43	1	0	0	0
PHILADELPHIA	85	65	94	58	75	-1	T	-.9	T	2.6	47	30.4	144	92	46	2	0	1	0
PITTSBURGH	79	56	89	46	68	-4	.7	-.2	.5	6.9	144	22.3	110	75	41	0	0	2	1
SCRANTON	80	59	90	50	69	-2	-.1	-.7	.1	5.5	115	23.7	137	82	47	1	0	1	0
RI PROVIDENCE	86	66	95	60	76	5	.6	0	.5	4.8	123	37.9	168	83	38	2	0	3	1
SC CHARLESTON	90	71	94	68	81	0	4.2	2.6	3.4	7.6	83	34.4	129	93	49	4	0	3	2
COLUMBIA	93	67	97	55	80	-1	.4	-.7	.3	3.3	52	26.1	103	90	41	5	0	3	0
FLORENCE	90	68	95	61	79	-1	1.5	-.2	1.3	8.0	119	32.1	143	94	53	4	0	2	1
GREENVILLE	86	65	91	59	76	-2	.3	-.8	.3	5.1	76	29.8	103	94	50	1	0	1	0
SD ABERDEEN	83	62	93	51	72	1	.2	-.4	.2	5.1	116	10.4	98	88	57	3	0	1	0
HURON	85	61	92	53	73	0	.2	-.4	.2	4.9	111	9.9	92	91	56	3	0	1	0
RAPID CITY	87	59	97	50	73	2	.1	-.5	.1	3.1	69	7.6	72	78	34	4	0	1	0
SIoux FALLS	86	62	96	52	74	0	0	-.7	0	6.9	138	16.8	124	91	50	2	0	0	0
TN CHATTANOOGA	88	66	91	62	77	-1	.7	-.4	.7	5.1	100	28.6	97	87	46	2	0	2	1
KNOXVILLE	86	63	91	60	75	-2	.9	-.1	.9	4.2	76	22.1	80	95	52	2	0	1	1
MEMPHIS	88	69	92	62	79	-3	.5	-.4	.3	4.2	81	31.2	102	88	48	3	0	2	0
NASHVILLE	86	66	93	57	76	-3	T	-.9	T	4.3	83	30.7	109	91	45	2	0	1	0
TX ABILENE	92	70	99	65	81	-3	.2	-.3	.2	5.0	139	10.3	87	76	31	4	0	1	0
AMARILLO	91	62	100	54	77	-2	0	-.7	0	2.2	46	9.5	94	71	23	5	0	0	0
AUSTIN	92	74	96	71	83	-1	.1	-.4	.1	4.1	100	20.4	114	80	42	7	0	1	0
BEAUMONT	90	75	90	72	82	-1	.5	-.6	.5	9.0	155	34.8	138	94	63	4	0	1	1
BROWNSVILLE	95	77	97	74	86	2	.3	-.1	.3	2.9	85	7.8	76	88	46	7	0	1	0
CORPUS CHRISTI	94	77	96	75	85	0	-.2	-.3	.2	2.7	63	12.6	92	88	51	7	0	1	0
DEL RIO	98	76	100	74	87	1	.3	-.2	.3	1.4	54	5.4	63	77	37	7	0	1	0
EL PASO	98	68	103	63	83	0	0	-.3	0	.2	18	3.1	124	53	18	7	0	0	0
FORT WORTH	91	71	98	64	81	-5	1.3	-.8	1.3	4.7	127	18.2	101	80	35	3	0	1	1
GALVESTON	90	79	91	74	85	2	1.1	-.3	1.1	4.5	90	16.9	90	83	66	4	0	1	1
HOUSTON	92	74	94	69	83	0	0	-.8	0	5.8	102	23.0	95	89	49	7	0	0	0
LURBOCK	93	65	108	57	79	-1	0	-.6	0	1.8	47	7.4	80	72	29	6	0	0	0
MIDLAND	96	71	106	67	84	3	0	-.4	0	.5	23	2.6	39	69	25	6	0	0	0
SAN ANGELO	91	70	98	66	80	-4	.6	-.3	.6	4.7	188	9.4	102	89	40	4	0	1	1
SAN ANTONIO	93	74	99	70	84	0	1.1	-.6	1.1	2.5	61	13.9	93	81	41	6	0	2	1
VICTORIA	93	75	95	73	84	0	.5	-.3	.5	3.5	56	15.2	82	92	52	6	0	1	0
WACO	94	70	98	63	82	-3	1.2	-.7	1.2	3.6	100	13.7	74	89	40	7	0	1	1
WICHITA FALLS	92	68	98	59	80	-5	.2	-.3	.2	5.6	140	15.5	103	88	36	7	0	2	0
UT BLANDING	90	56	95	51	73	0	-.2	0	-.2	1.2	171	7.0	156	62	25	3	0	2	0
CEDAR CITY	91	59	96	49	75	2	T	-.2	T	.5	63	7.4	148	50	16	4	0	1	0
SALT LAKE CITY	91	62	100	48	77	1	.7	-.6	.5	1.7	131	12.3	138	64	19	5	0	2	0
VT BURLINGTON	79	59	95	48	69	0	1.0	-.3	.3	3.3	67	23.0	145	86	46	2	0	4	0
VA NORFOLK	87	67	96	61	77	-1	.4	-.6	.4	4.5	85	27.0	123	91	45	2	0	2	0
RICHMOND	89	66	99	54	77	0	T	-.1	T	5.6	106	24.9	120	93	45	2	0	0	0
ROANOKE	85	59	93	48	72	-3	.1	-.7	.1	3.3	70	76.2	128	95	43	2	0	1	0
WA COLVILLE	75	49	85	42	62	-5	.3	-.1	.2	3.5	194	15.5	165	86	55	0	0	2	0
QUILLAYUTE	67	47	69	42	57	-1	.7	-.1	.4	6.1	145	60.4	114	97	54	0	0	5	0
SEATTLE-TACOMA	70	52	78	49	61	-3	.1	-.1	.1	2.4	126	21.0	109	87	47	0	0	1	0
SPOKANE	78	53	89	47	65	-3	.1	0	.1	2.4	171	10.1	105	86	33	0	0	1	0
WYAKIMA	79	50	90	41	65	-5	-.1	0	-.1	.9	129	7.3	183	71	27	1	0	1	0
WV BECKLEY	76	54	86	43	65	-4	.8	-.2	.7	8.1	150	19.0	81	94	52	0	0	3	1
CHARLESTON	83	59	92	47	71	-3	.6	-.5	.5	3.9	78	20.6	92	95	45	1	0	3	0
HUNTINGTON	83	61	91	52	72	-3	1.6	-.6	1.6	4.6	90	20.6	92	88	42	2	0	1	1
PARKERSBURG	81	60	88	50	71	-3	.5	-.5	.5	3.0	48	21.6	90	85	42	0	0	1	1
WI GREEN BAY	77	56	86	43	66	-3	.5	-.3	.5	2.6	58	12.4	89	89	48	2	0	1	0
LA CROSSE	83	62	91	48	72	0	.4	-.5	.4	2.6	46	12.2	77	89	48	2	0	1	0
MADISON	81	58	89	42	70	0	.5	-.4	.5	3.2	58	14.6	92	89	50	0	0	1	0
MILWAUKEE	78	60	89	47	69	-1	.5	-.4	.3	2.7	54	19.8	125	79	47	0	0	2	0
WAUSAU	78	58	90	44	68	0	.5	-.4	.5	2.2	39	11.1	69	91	46	1	0	3	0
WY CASPER	90	52	98	42	71	2	T	-.2	T	3.8	224	10.3	145	74	18	5	0	1	0
CHEYENNE	83	54	91	47	68	1	.1	-.4	.1	3.4	121	12.5	160	77	25	1	0	1	0
LANDER	86	54	93	45	70	1	T	-.2	T	1.5	75	10.3	116	55	22	4	0	1	0
SHERIDAN	91	56	104	47	73	5	.1	-.3	T	.6	20	4.1	42	66	22	4	0	2	0
PR SAN JUAN	88	78	90	76	83	1	2.8	1.8	1.3	6.2	98	20.7	88	87	68	3	0	5	2

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

+100 = NORMAL & ACTUAL NEAR THE SAME

June Weather and Crop Summary

WEATHER SUMMARY

HIGHLIGHTS: Showers and thunderstorms were frequent over most of the Nation. Only southwestern Arizona and southern California had little or no rain. Moderate showers and unusually heavy snowmelt runoff through the Rockies and parts of the Plateau caused serious flooding along most western rivers. Although rains were lighter than in May through most of the Mississippi Delta and Tennessee Valley, frequent moderate rain kept these areas and the eastern gulf coast too wet. Western Texas and southern New Mexico did not get the normal amount of thunderstorm rain during the month, causing ranges to become very dry. Less than half the normal June rain fell in eastern Montana, creating drought conditions. Below normal rain in the Great Lakes region, northern New York and New England, the middle and upper Ohio Valley, and in parts of Georgia and South Carolina has caused these areas to use stored soil moisture. Temperatures in the northern part of the Nation averaged a little warmer than normal but temperatures in the central and southern Plains were 4-6° cooler than normal.

On June 1, a cool high-pressure system centered in the central Plains. As the system moved eastward during the first 4 days, its clockwise circulation began to carry warm, moist air northward from the Gulf of Mexico, triggering heavy showers and thunderstorms from the central Mississippi Valley to the southern Appalachians.

FIRST WEEK... Showers and thunderstorms covered much of the central and southern Plains, the gulf coast, the Southeast, and most inland areas of the east coast. A portion of the lower Ohio Valley and the central Mississippi Valley had little or no rain, allowing that area to begin drying. Open weather across the Corn Belt for most of the week allowed fieldwork to progress rapidly. Average temperatures were cooler than normal over most of the East, but averages of 6-12° colder than normal in the central and southern Plains slowed growth of small grains.

SECOND WEEK... Severe weather produced torrential rain and tornadoes over much of the eastern portion of the Great Plains. Thunderstorms also triggered heavy rains from the Delta States across the Appalachians to New England. While it was unseasonably warm in the northeastern corner of the Nation, the Plains, the Rocky Mountains, and the South were cooler than normal. Crop development in the central and southern Plains continued progressing slowly as temperatures averaged as much as 6° cooler than normal.

THIRD WEEK... Showers and thunderstorms were frequent in the Gulf Coast States, the mid-Atlantic States, and the northern Plains. Sunny, warm weather over the Corn Belt allowed rapid germination and growth of newly planted fields. Warmer than normal weather extended into the central and northern Plains and into New England. The Pacific Northwest was cooler than normal, but seasonal snowmelt was much heavier than normal through most of the Rockies and Plateau resulting in overflow of most western Rivers.

FOURTH WEEK... Nearly all of the area from the eastern Plains to the Atlantic Ocean had showers and thunderstorms during the week. Some of the heaviest rain and most severe weather was reported in the area from central Nebraska to southern New England. Tornadoes and heavy rain in Minnesota caused local flooding and destroyed property. Moderate to heavy showers fell over the central gulf coast area. Temperatures were quite warm over the Corn Belt, averaging up to 6° warmer than normal.

ROW CROP PROGRESS

Torrential rains during mid-June drenched most of the eastern Great Plains and the area from the Delta States across the Appalachians into New England; field activities were halted in these areas. Some fields showed excessive erosion and high winds lodged some small grains. Late in the month another storm system created heavy rainfall across the eastern Great Plains, Corn Belt and from the Delta States through the Southeast. Planting generally progressed slightly behind average in most regions during June. Wet conditions delayed planting, especially soybeans, from the Delta States northward into Kentucky. Much needed rain fell in the spring wheat areas at the end of June, helping relieve dry conditions and providing needed moisture for growing crops. Dry weather increased irrigation requirements in California, and caused deterioration of rangeland grasses over the Southwest and portions of Texas. A heavy snow melt during June over the Rockies caused flooding of low lying fields and damaged some irrigation systems.

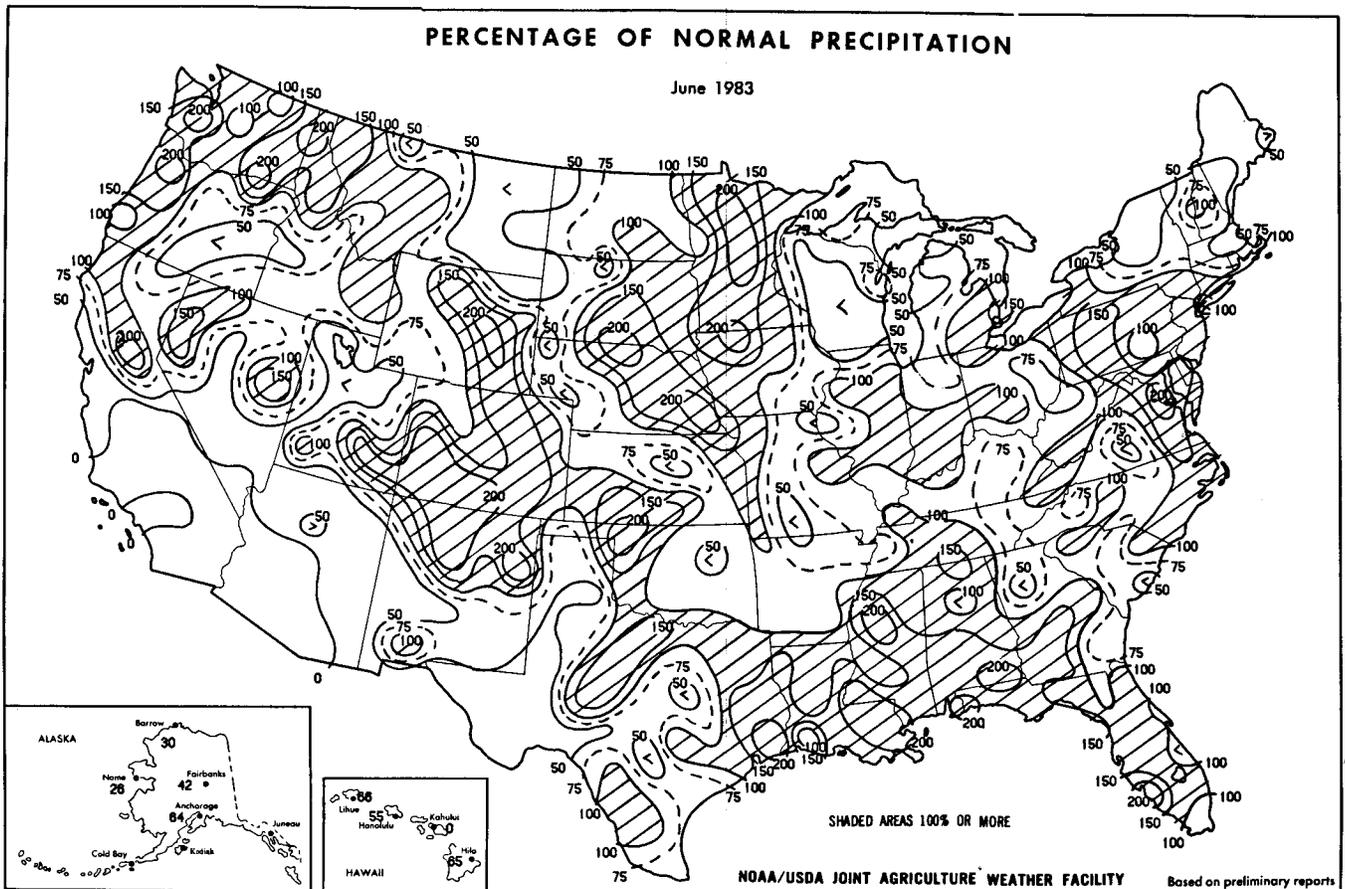
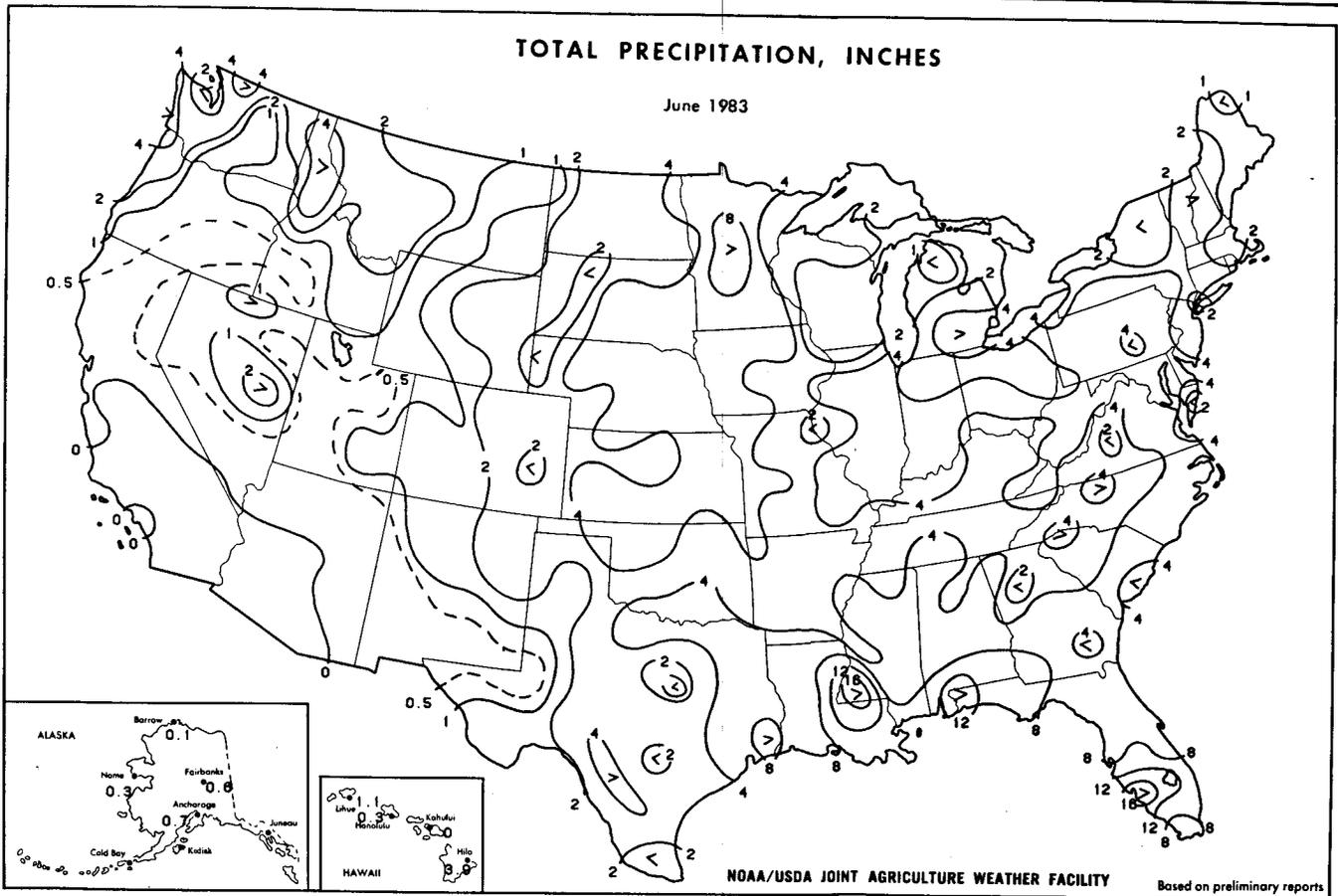
At the beginning of June, corn planting was 83 percent complete, 5 percentage points less than normal. Planting was 40 points slower than normal in Kentucky and 24 points behind in Michigan. However, farmers were able to get into the fields and by midmonth planting was nearly complete although later than normal in most States. Corn was silking as far north as Virginia at the end of June. In Southern areas, many fields were in the dough stage with early-planted fields in the dent stage. Warmer weather and mostly adequate soil moisture improved prospects for the crop as the month ended. Corn generally rated fair to good throughout the Nation.

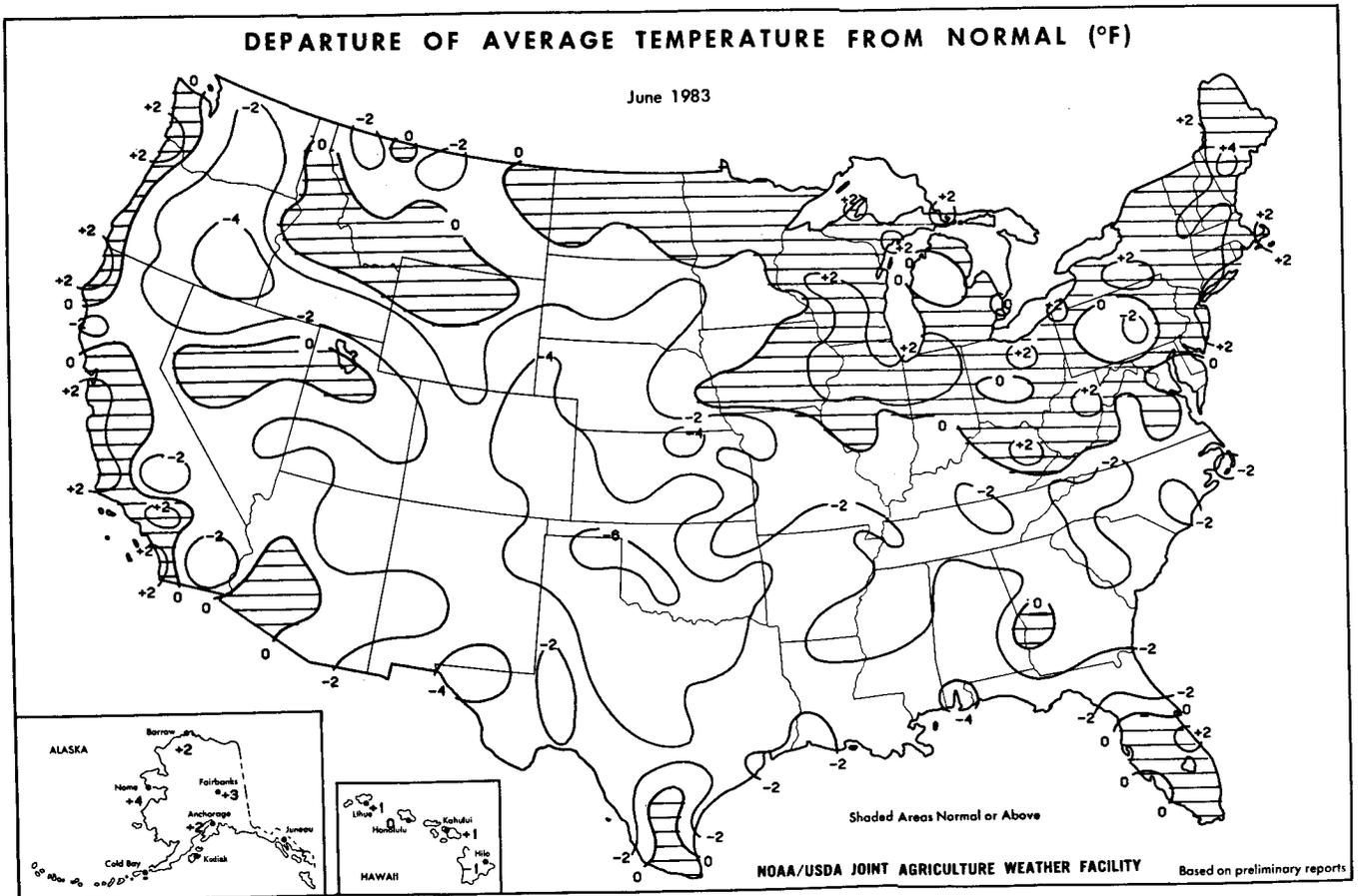
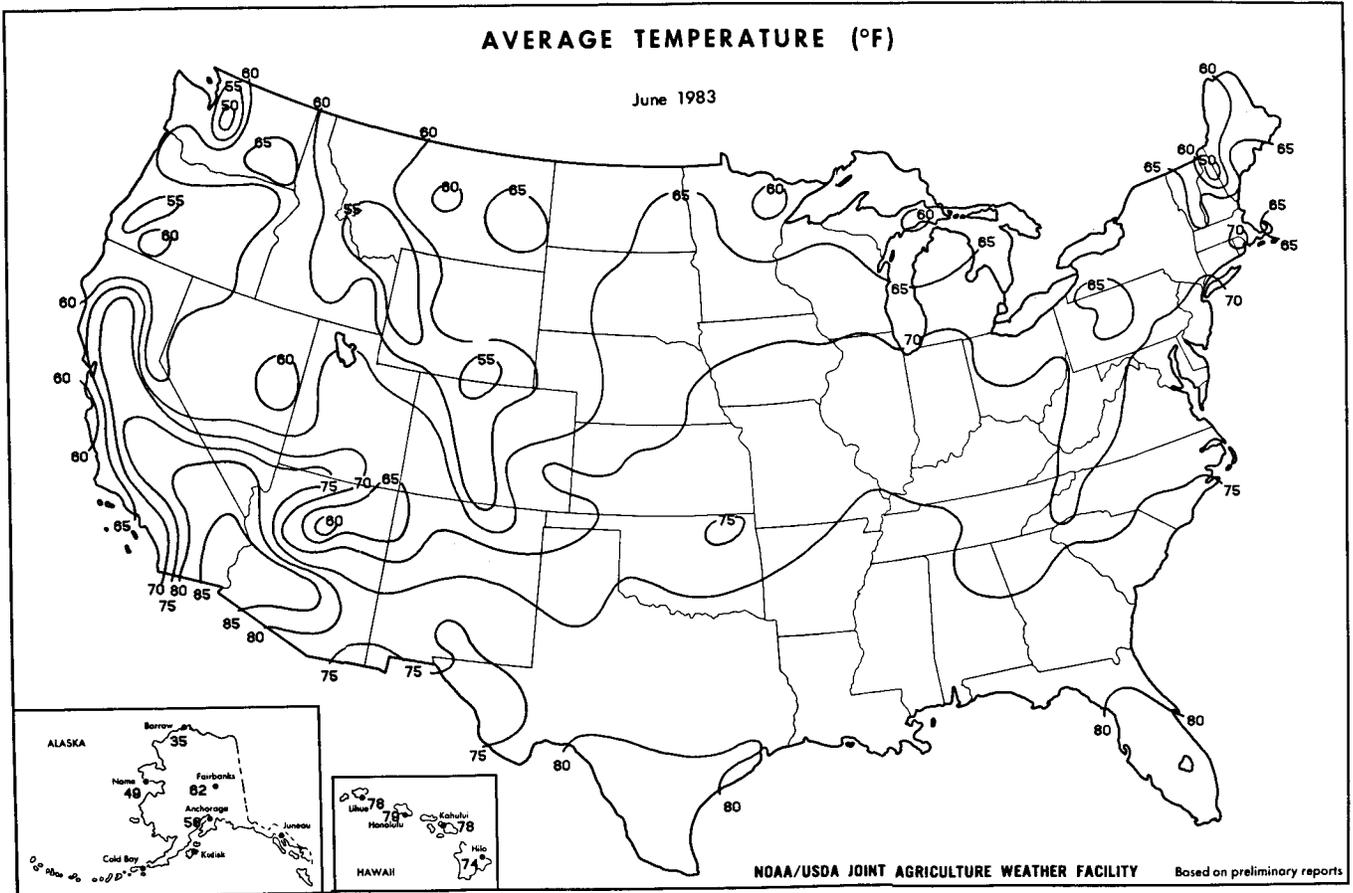
Soybean seeding was 39 percent finished at the beginning of June, compared with the 54 percent average. Progress in all major producing States was slower than average. By mid-June, planting progress had caught up with the average except for the Delta States northward to Kentucky where progress lagged normal because of wet conditions. Planting was 94 percent complete in the 18 major producing States at the beginning of July, 2 points behind the average. Seeding was virtually complete in the Corn Belt but continued to be delayed from Mississippi to Kentucky. Progress in the Southeast was slow because farmers were waiting to plant double-cropped soybeans after harvesting the late maturing small grains.

Cotton planting was 72 percent complete by June 1, trailing the 82 percent average. By midmonth, planting was complete in all States except Oklahoma and Texas where seeding was finished in late June. Squaring was underway on 33 percent of the acreage by July 3, well behind the average of 51 percent. Squaring had not begun in Oklahoma. In the other 13 major States squaring ranged from 19 percent in both Tennessee and Texas to 95 percent squared in Arizona. Seven percent of the acreage was setting bolls as the month ended. Texas producers reseeded some hail-damaged fields. Hot weather stimulated crop development in the southern half of the State as June ended.

At the beginning of June, sorghum planting was 48 percent finished, lagging the average of 58 percent. Rainy weather delayed planting; progress was 25 points less than average in Nebraska, 17 less in Missouri and 15 points less than average in both Kansas and South Dakota. June rains continued to slow planting. Planting reached 95 percent complete as June ended, compared with 97 percent average. Progress was as much as 13 points slower than normal in Oklahoma and 5 points slower in Kansas. Harvesting started at the end of the month in the lower Rio Grande Valley of Texas.

(continued on p. 12)





Temperature and Precipitation Data for June 1983

States and Stations	Temperature OF		Precipitation Inches		States and Stations	Temperature OF		Precipitation Inches		States and Stations	Temperature OF		Precipitation Inches	
	Average	Departure	Total	Departure		Average	Departure	Total	Departure		Average	Departure	Total	Departure
AL BIRMINGHAM	75	- 2	2.2	- 1.4	LA BATON ROUGE	77	- 3	12.3	9.2	TOLEDO	68	1	4.1	.6
MOBILE	76	- 5	8.1	3.0	LAKE CHARLES	79	- 1	4.1	-. 1	YOUNGSTOWN	66	0	4.4	-. 9
MONTGOMERY	76	- 3	6.5	3.0	NEW ORLEANS	78	- 2	10.6	6.0	OK OKLAHOMA CITY	73	- 4	3.2	-. 7
AK ANCHORAGE	56	2	. 7	-. 4	SHREVEPORT	78	- 2	6.6	3.1	TULSA	77	- 1	1.5	- 3.1
BARROW	35	2	-. 1	-. 3	ME CARIBOU	62	2	. 9	- 2.3	OR ASTORIA	60	3	4.5	- 2.1
FAIRBANKS	62	3	-. 6	-. 7	PORTLAND	64	2	1.3	- 1.8	BURNS	55	- 6	. 3	-. 5
JUNEAU	--	--	--	--	MD BALTIMORE	72	0	5.2	1.4	MEDFORD	64	- 1	. 7	. 0
KODIAK	--	--	--	--	MA BOSTON	71	3	1.1	- 1.8	PENDLETON	63	- 3	1.4	. 7
NOME	49	4	. 3	-. 9	MI CHATHAM	63	1	2.9	. 2	PORTLAND	62	- 1	2.0	. 5
AZ FLAGSTAFF	57	- 2	. 3	-. 3	MI ALPENA	62	1	1.8	- 1.4	SALEM	60	- 1	2.5	1.3
PHOENIX	89	- 2	0	-. 2	DETROIT	68	0	4.9	1.5	PA ALLENTOWN	70	1	4.7	1.2
TUCSON	82	- 1	0	-. 2	FLINT	67	1	3.9	. 7	ERIE	67	2	3.8	. 1
WINSLOW	69	- 3	T	-. 4	GRAND RAPIDS	68	1	2.1	- 1.8	HARRISBURG	69	- 2	2.8	-. 8
YUMA	87	0	0	. 0	HOUGHTON LAKE	63	- 1	1.0	- 2.1	PHILADELPHIA	72	0	2.7	- 1.2
AR FORT SMITH	74	- 4	3.2	-. 5	LANGSING	67	0	4.3	. 8	PITTSBURGH	68	0	4.8	1.5
LITTLE ROCK	76	- 3	2.8	-. 9	MARQUETTE	60	0	1.6	- 1.7	SCRANTON	68	1	4.8	1.4
CA BAKERSFIELD	76	- 2	0	-. 1	MUSKEGON	66	0	1.7	-. 8	RI PROVIDENCE	70	3	1.9	-. 9
EUREKA	58	3	. 7	. 1	SAULT STE. MARIE	61	3	1.7	- 1.6	SC CHARLESTON	77	- 1	2.8	- 3.7
FRESNO	76	1	0	-. 1	MN DULUTH	60	1	2.0	- 2.0	COLUMBIA	75	- 3	2.8	- 1.7
LOS ANGELES	65	- 1	T	. 0	INT'L FALLS	62	1	5.0	1.3	GREENVILLE	73	- 2	4.7	1.2
RED BLUFF	75	- 1	. 4	. 0	MINNEAPOLIS	68	0	5.2	. 1	SD ABERDEEN	65	- 1	3.5	. 3
SAN DIEGO	68	2	T	-. 1	ROCHESTER	66	- 1	4.6	. 5	HURON	66	- 2	4.6	- 1.3
SAN FRANCISCO	62	1	T	-. 1	SAINT CLOUD	64	- 1	9.5	5.0	RAPID CITY	63	- 2	3.0	-. 3
STOCKTON	74	1	T	-. 1	MS JACKSON	77	- 2	2.9	*. 0	TN STOUX FALLS	67	- 1	6.8	3.1
CO DENVER	63	- 4	2.6	1.0	MERIDIAN	75	- 3	6.7	3.2	CHATTANOOGA	74	- 1	3.3	. 0
GRAND JUNCTION	70	- 2	1.5	1.1	MO COLUMBIA	72	- 1	3.8	. 0	KNOXVILLE	73	- 1	3.3	-. 6
PUEBLO	67	- 4	2.1	. 9	KANSAS CITY	71	- 3	5.0	. 3	MEMPHIS	77	- 2	3.5	-. 1
CT BRIDGEPORT	68	0	3.7	. 8	SAINT LOUIS	75	0	4.3	. 6	NASHVILLE	76	0	3.9	. 2
HARTFORD	70	1	2.6	-. 8	SPRINGFIELD	72	- 1	2.3	- 2.4	TX ABILENE	77	- 4	3.9	1.4
DC WASHINGTON	75	0	7.1	3.7	MT BILLINGS	64	0	. 9	- 1.2	AMARILLO	70	- 5	1.8	- 1.7
FL APALACHICOLA	78	- 2	8.0	3.2	GLASGOW	63	0	. 8	- 1.7	AUSTIN	78	- 4	3.9	. 8
DAYTONA BEACH	77	- 2	6.4	. 0	GREAT FALLS	60	- 2	3.0	. 2	BEAUMONT	79	- 2	8.1	4.1
FORT MYERS	80	- 1	17.9	9.2	HAVRE	61	- 2	1.6	-. 5	BROWNSVILLE	83	0	1.8	-. 9
JACKSONVILLE	76	- 3	6.9	1.5	HELENA	60	0	2.2	-. 2	CORPUS CHRISTI	81	- 2	2.5	-. 9
KEY WEST	82	- 1	3.8	- 1.2	KALISPELL	57	- 3	3.1	1.1	DEL RIO	82	- 2	1.1	-. 6
MIAMI	82	1	8.7	-. 5	MILES CITY	66	- 1	1.6	- 1.1	EL PASO	77	- 4	. 2	-. 4
ORLANDO	81	0	7.8	1.9	MISSOULA	59	- 1	2.3	. 4	FORT WORTH	77	- 5	2.1	-. 5
TALLAHASSEE	78	- 2	9.4	1.8	NE GRAND ISLAND	70	- 1	6.3	2.6	GALVESTON	81	0	5.0	1.5
TAMPA	81	0	7.2	1.9	LINCOLN	72	0	7.7	3.9	HOUSTON	79	- 2	5.4	1.3
WEST PALM BEACH	81	1	9.4	1.5	NORFOLK	70	- 1	6.8	2.4	LUBBOCK	74	- 4	1.8	- 1.0
GA ATLANTA	74	- 2	1.5	- 1.9	NORTH PLATTE	65	- 3	3.3	- 1.1	MIDLAND	79	- 1	. 2	- 1.2
AUGUSTA	75	- 2	3.9	. 0	OMAHA	71	0	4.9	. 7	SAN ANGELO	77	- 4	3.7	2.2
MACON	79	0	5.7	1.9	VALENTINE	65	- 3	7.1	4.1	SAN ANTONIO	79	- 3	1.3	- 1.7
SAVANNAH	78	- 1	5.8	. 1	NV ELY	58	- 1	2.3	1.5	VICTORIA	81	- 1	2.8	- 1.7
HI HILO	74	- 1	3.9	- 2.2	LAS VEGAS	83	- 1	T	-. 1	WACO	79	- 3	1.0	- 1.6
HONOLULU	79	0	. 3	-. 2	RENO	62	0	. 6	. 3	WICHITA FALLS	76	- 4	5.0	2.1
KAHULUI	78	1	. 2	-. 1	WINNEMUCCA	62	- 2	. 9	. 0	UT BLANDING	65	- 2	1.0	. 6
LIHUE	78	1	1.1	-. 5	NJ CONCORD	65	0	2.5	-. 4	SALT LAKE CITY	68	0	. 6	-. 4
ID BOISE	64	- 2	. 2	-. 8	NH ATLANTIC CITY	71	2	3.0	-. 2	VT BURLINGTON	66	1	1.5	- 2.1
LEWISTON	65	- 1	1.7	. 3	TRENTON	--	--	--	--	VA LYNCHBURG	72	0	1.6	- 1.9
POCATELLO	61	- 2	1.2	-. 1	NM ALBUQUERQUE	73	- 2	1.2	. 7	NORFOLK	73	- 1	3.9	. 4
IL CAIRO	78	0	2.7	1.7	ROSWELL	--	--	--	--	RICHMOND	76	2	5.5	1.9
CHICAGO	70	- 1	4.1	. 0	NY ALBANY	67	0	2.0	- 1.3	ROANOKE	70	- 2	2.4	-. 9
MOLINE	73	2	5.2	. 9	BINGHAMTON	67	3	4.1	. 5	WA COLVILLE	60	- 1	2.9	-. 1.4
PEORIA	73	2	4.5	. 6	BUFFALO	68	2	3.0	. 3	OMAK	65	1	. 7	-. 2
ROCKFORD	71	2	1.6	3.0	NEW YORK	73	2	2.0	- 1.2	QUILLAYUTE	56	- 1	4.1	1.0
SPRINGFIELD	74	1	2.6	- 1.1	ROCHESTER	67	0	2.4	-. 4	SEATTLE-TACOMA	59	- 1	1.9	. 5
IN EVANSVILLE	75	- 1	4.6	1.1	SYRACUSE	67	1	1.5	- 2.1	SPOKANE	62	0	2.8	1.6
FORT WAYNE	72	2	2.2	- 1.4	NC ASHEVILLE	69	- 1	3.7	-. 5	WALLA-WALLA	66	- 2	1.7	. 8
INDIANAPOLIS	72	0	4.5	. 5	CHARLOTTE	74	- 1	3.8	. 2	YAKIMA	63	- 2	. 8	. 2
SOUTH BEND	72	3	2.0	- 1.9	GREENSBORO	72	- 2	5.2	1.3	WV BECKLEY	66	0	7.0	3.2
IA BURLINGTON	--	--	--	--	HATTERAS	73	- 2	4.9	. 6	CHARLESTON	72	1	2.8	-. 5
DES MOINES	73	1	3.7	-. 5	RALEIGH	73	- 1	3.1	-. 6	HUNTINGTON	72	0	3.0	-. 6
DUBUQUE	70	2	1.6	- 2.6	WILMINGTON	75	- 2	6.7	1.0	PARKERSBURG	--	--	--	--
SIoux CITY	68	- 3	4.6	-. 6	ND BISMARCK	62	- 2	3.0	. 0	WI GREEN BAY	65	0	1.8	- 1.4
CONCORDIA	69	- 5	3.6	-. 7	FARGO	66	1	2.3	-. 8	LA CROSSE	69	0	1.7	- 2.5
DODGE CITY	72	- 3	5.0	2.0	WILLISTON	64	0	. 9	- 1.8	MADISON	68	2	1.9	- 2.0
GOODLAND	66	- 4	2.4	-. 3	OH AKRON-CANTON	68	0	2.1	- 1.2	MILWAUKEE	66	1	1.4	- 2.2
TOPEKA	74	0	6.1	1.0	CINCINNATI	72	1	2.2	- 1.9	CASPER	60	- 3	3.8	2.6
WICHITA	72	- 4	7.4	3.3	CLEVELAND	69	- 1	3.5	. 0	CHEYENNE	57	- 5	2.8	-. 8
KY LEXINGTON	73	- 1	2.2	- 2.1	COLUMBUS	69	- 1	4.6	. 6	LANDER	62	0	1.2	-. 3
LOUISVILLE	73	- 1	4.4	. 8	DAYTON	70	- 1	5.7	1.9	SHERIDAN	63	1	1.0	- 1.2
									PR SAN JUAN	85	3	1.9	- 2.8	

Based on 1951-80 NORMALS

(continued from p. 9)

Winter Wheat Harvest

Winter wheat was in fair to mostly good condition at the beginning of June. However, development was later than normal in most regions. Fifty-seven percent of the acreage was headed as of June 1, trailing the average of 70 percent. Harvesting was underway in the extreme South early in the month, but combining began late in the month across portions of the Corn

Belt and on the Great Plains, was only as far north as Kansas, as the month ended. At the end of June, harvesting in the 15 major producing States was 21 percent finished, well behind the 43 percent average. Scattered showers limited progress across most of the eastern half of the Nation late in the month and caused some lodging in scattered areas of the East and in portions of the northern Plains. Hot weather pushed wheat to maturity on the Texas Plains and promoted rapid harvesting as the month ended. Combining was 69 percent finished in that State.

National Agricultural Summary

July 4 to 10

HIGHLIGHTS: Generally favorable weather stimulated crop development and provided 4 to 6 days suitable for field activities in all regions of the Nation. Scattered showers across the eastern half of the Nation replenished soil moisture while dry conditions in the west caused deterioration of ranges and increased the danger of fire. Soil moisture supplies were mostly adequate, but hot weather sapped soil moisture and many short to adequate ratings were reported. Winter wheat harvesting advanced rapidly reaching 52% completion. Even though considerable progress was made during the week, this year's combining is lagging behind the average. Corn was rated fair to mostly good in most regions; 4% of the acreage was silking. Soybeans were 97% planted, with most remaining acreage to be double-cropped. Nine percent of the fields were blooming. Sorghum planting reached 98% completion; harvesting gained momentum in Texas. Cotton was rated at fair to good condition; 50% was squaring and 11% was setting bolls. Tobacco harvesting crept northward into North Carolina. Rice continued fair to good condition; 12% was headed. Peach picking began in New Jersey. Cherry picking gained momentum in Michigan and New York. Vegetable harvesting increased in northern areas. Pasture and ranges were in fair to mostly good condition; dry conditions are promoting fires in the west. Texas cattle were holding up well under dry conditions; some culling began.

SMALL GRAINS: Winter wheat harvesting advanced rapidly under mostly open weather. Producers combined 31% of their acreage during the week. In the 15 major producing States combining advanced to 52% completion, 3 points ahead of last year but 9 points behind the average. Growers in Kansas harvested 60% of their acreage during the week; Illinois, 58%; California, 25%; Missouri, 24%; Indiana, 20%; and Texas 19%. Even though rapid progress was made, harvesting was still behind schedule in most areas, as much as 39 points in Nebraska.

Springwheat was 74% headed, well ahead of the 60% average. Progress ranged from 65% in Montana to 91% in South Dakota. Soil moisture was replenished by showers across Montana, except in the southeast and extreme northeast. Drought damage was spotty across that State.

CORN: Corn was in fair to mostly good condition across the Nation. In the 17 major producing States, 4% of the acreage was silking, less than half the normal progress due to the late planting and cool spring. Southern fields were mostly in the dough stage and some were in the dent stage. Corn in Georgia was 23% dented compared to the 50% average. Warmer temperatures hastened crop development in most regions.

SOYBEANS: Soybean planting in the 18 major producing States was 97% complete, the same as a year ago. Most of the unseeded acreage is in the southeast where double-cropped soybeans will be planted as the small grain harvest is completed. Wet conditions have delayed planting in Mississippi, Kentucky, and Alabama leaving producers 12, 8, and 5 percentage points behind their respective averages. Nine percent of the acreage was blooming in the major States, behind the 14% average.

SORGHUM: Sorghum planting in the 7 major producing States was 98% finished. Progress ranged from 90% complete in Oklahoma to 100% in Missouri, Nebraska, and South Dakota. Hot

weather aided maturity in south and south central Texas. The harvest in Texas was 5% complete, 9 points behind normal.

COTTON: In the 14 major producing States, 50% of the cotton acreage was squaring and 11% was setting bolls compared to the averages of 66% and 21%. The crop was in fair to mostly good condition and benefited from warm temperatures in all regions. Stands matured rapidly in the Lower Rio Grande Valley of Texas where harvesting increased.

OTHER CROPS: Tobacco growers actively topped the crop in the southeast. Harvesting became more widespread. The Georgia crop was 15% cut, compared with the 29% normal for this date. The flue-cured crop in North Carolina was 2% harvested while harvesting had not begun in Virginia.

Rice was in fair to good condition and improving with warmer weather. In Texas, 44% of the acreage was headed trailing the 84% average. Louisiana stands were 27% headed, 21 points behind normal. The crop had not begun heading in the other major States. Seven percent of the crop was turning color in Texas, trailing the 27% average.

The Texas peanut crop was 96% planted. Fields benefited from scattered showers in North Texas and the Cross Timbers area. In the southeast, crop conditions were fair to mostly good. The crop bloomed on much of the acreage and was pegging.

FRUITS AND NUTS: Peach picking crept northward into New Jersey while South Carolina producers began harvesting peak volumes. The Georgia harvest reached 77% completion, 7 points ahead of normal. The sweet cherry harvest gained momentum in Michigan and New York, while tart cherry picking was just getting started. Florida's citrus groves showed abundant new foliage and required limited irrigation. Valencia orange picking was virtually complete. Arizona's Valencia orange harvest was nearly finished. Citrus groves continued in good condition. Grape picking remained active. California growers picked avocados, table grapes, stonefruit, grapefruit, and Valencia oranges. Producers sprayed almonds and walnuts to control insects.

VEGETABLES: Harvesting of summer vegetables became more widespread in northern producing areas. More varieties began moving to market. California's vegetable harvest slowed in the Desert but increased along the central coast and remained steady in most other areas. Tomato picking gained momentum in the San Joaquin Valley. Vegetable picking was widespread across Texas but declined in the Lower Rio Grande Valley. Onion harvesting neared completion in the Trans-Pecos area. Florida's spring vegetable harvest was virtually finished. Harvesting of cucumbers increased while volumes of cabbage and okra held steady.

PASTURES AND LIVESTOCK: Wind continued to dry ranges and pasture, increasing fire danger in California. Grass and brush fires in Utah were extinguished by weekend showers. Pastures and ranges were in fair to mostly good condition across most of the Nation. Scattered showers in Texas were insufficient to relieve dry conditions. Stock water was getting low in some areas of the State. Livestock was holding up well but some culling was underway.

CROP PROGRESS

FOR WEEK ENDING JULY 10, 1983

SOYBEANS % PLANTED				SOYBEANS % BLOOMING				CORN % SILKING				COTTON % SQUARING			
	1983	1982	AVG.		1983	1982	AVG.		1983	1982	AVG.		1983	1982	AVG.
ALA	95	100	100	ALA	18	10	15	COLO	0	0	0	ALA	61	92	78
ARK	96	97	97	ARK	1	2	4	GA	90	98	99	ARIZ	98	95	96
GA	97	95	97	GA	14	18	17	ILL	6	28	18	ARK	80	96	96
ILL	100	100	100	ILL	21	37	26	IND	0	15	10	CALIF	65	65	82
IND	100	100	100	IND	10	25	25	IOWA	0	0	1	GA	85	95	93
IOWA	100	100	100	IOWA	10	1	15	KANS	1	10	15	LA	51	92	82
KANS	95	80	95	KANS	5	4	10	KY	4	28	21	MISS	84	97	92
KY	90	97	98	KY	2	16	8	MICH	0	0	0	MO	37	95	73
LA	95	95	98	LA	9	16	18	MINN	0	0	0	N MEX	64	80	85
MICH	100	100	100	MICH	3	7	4	MO	1	20	3	N C	53	92	81
MINN	100	100	100	MINN	2	6	14	NEBR	0	0	10	OKLA	15	2	15
MISS	86	98	98	MISS	3	4	12	N C	65	83	73	S C	87	99	91
MO	94	89	94	MO	7	8	10	OHIO	0	0	0	TENN	45	92	73
NEBR	100	100	100	NEBR	15	2	10	PA	0	0	0	TEX	34	37	52
N C	98	91	98	N C	2	5	3	S DAK	0	0	0	14 STATES	50	58	66
OHIO	100	100	100	OHIO	0	0	0	VA	22	48	34				
S C	96	95	97	S C	1	0	3	WIS	0	0	0				
TENN	97	95	94	TENN	5	10	11								
18 STATES	97	97	98	18 STATES	9	12	14	17 STATES	4	11	9				
WINTER WHEAT % HARVESTED				THESE 18 STATES PRODUCED 94% OF THE 1982 SOYBEAN CROP.				THESE 17 STATES PRODUCED 93% OF THE 1982 CORN CROP.				COTTON % SETTING BOLLS			
	1983	1982	AVG.										1983	1982	AVG.
CALIF	90	75	85					IDAHO	80	78	78	ALA	9	18	17
COLO	2	4	8					MINN	87	66	76	ARIZ	70	60	71
IDAHO	1	0	0					MONT	65	5	25	ARK	4	42	22
ILL	70	71	72					N D	66	44	55	CALIF	10	15	19
IND	25	45	45					S DAK	91	92	95	GA	33	61	70
KANS	65	60	80					5 STATES	74	49	60	LA	1	21	28
MO	53	60	65									MISS	2	29	17
MONT	0	0	0									MO	0	29	21
NEBR	6	10	45									N MEX	1	5	19
OHIO	15	15	15									N C	8	29	25
OKLA	95	80	97									OKLA	0	0	0
OREG	1	0	0									S C	40	67	55
S DAK	0	0	11									TENN	0	15	13
TEX	88	85	93									TEX	9	12	18
WASH	0	0	0									14 STATES	11	19	21
15 STATES	52	49	61												
THESE 15 STATES PRODUCED 80% OF THE 1982 WINTER WHEAT CROP.				THESE 5 STATES PRODUCED 98% OF THE 1982 RICE CROP.				THESE 5 STATES PRODUCED 96% OF THE 1982 SPRING WHEAT CROP.				THESE 14 STATES PRODUCED 99% OF THE 1982 COTTON CROP.			

(continued on p. 5)

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 Offices in cooperation with the National Weather Service.

ALABAMA: Rainfall less than 1.00 in. Air temperatures range 55 to 90°. Soil moisture adequate to surplus. Fieldwork: 4.5 days. Soybeans planted 95%, 1982 100%, average 100%. Soybeans blooming 18%, 1982 10%, average 15%. Wheat harvested 87%. Corn silked 64%, 1982 91%, average 78%. Cotton squaring 61%, 1982 92%, average 78%. Cotton setting bolls 9%, 1982 18%, average 17%. Peanuts pegging 58%, 1982 50%, average 58%. Sorghum planted 86%. Activities: Planting soybeans; cultivating field crops; controlling pests on fruit, vegetables, and crops; and harvesting wheat, vegetables, peaches, and summer potato harvest. Conditions: Cotton fair to good; soybeans and sorghum mostly good; corn, peanuts, pasture, and livestock good.

ALASKA: Temperatures averaged above normal Tanana Valley and northern Kenai Peninsula, near normal elsewhere. Precipitation fell as showers Tanana Valley; as rain from storm systems elsewhere. Weekly and seasonal precipitation amounts below normal.

Cloudy warm weather hastened crop growth throughout the Railbelt. Two to 6 days suitable making hay other fieldwork. Hay harvest ranged 80% to complete. Small grains moderate growth depending on soil moisture availability. Average height grain ranged 14 to 28 inches last year 5 to 22 inches. Over half barley crop headed out compared last year's early boot stage. Potato heights ranged 6 to 18 inches. Harvest of radishes, leaf lettuce other vegetables underway. Topsoil moisture supplies mostly short to adequate.

ARIZONA: Sunny, hot dry weather over State first part week. Record, near record high temperatures last week, scattered showers and thunderstorms much of the eastern two-thirds, arrival summer monsoon season. Rainfall amounts 0.10 and 0.75 in. except 1.00 in. White Mountains, central basins. Average temperatures 2° below normal to 3° above. Cotton crop continued good, favorable weather, boll set progress satisfactory. Squaring, boll setting ahead of last year. Squaring 98%, ahead of

last year's 96%, average 95%. Bolls set 70% acreage, 60% last year, average 71%. Boll setting concentrated western, central areas no boll setting southeast. Many bolls Yuma full size. Irrigation active, insect activity increasing. Small grains complete. Alfalfa haying active. Corn and sorghum good progress. Safflower harvest peak Yuma County. Cantaloup, watermelon, and honeydewmelon harvest continued La Paz, Maricopa, and Mohave. Yuma cantaloups completed, watermelons continuing. Dry onion harvest completed Maricopa, active in Cochise. Chippen potato harvest nearly completed. Grape harvest active in Maricopa County. Perlettes nearly complete. Thompson, Flame seedless active. Grape varieties Yuma completed. Grapefruit continued Maricopa. Valencia oranges nearly complete. Citrus groves good condition, favorable new crop prospects. Peach harvest began Cochise county.

ARKANSAS: Scattered shower prevailed last week with relatively cool temperatures. Highest 96°, lowest 50°. Most rain 2.47 in., least 0. Days favorable for fieldwork: 5.6. Crop progress moderate. Soil moisture generally adequate, becoming short southeast and north. Cotton fair to good; squaring 80%, 96% 1982 and average; setting bolls 4%, 42% 1982, 22% average. Rice good condition. Soybeans good to fair, need rain; planted 96%, 97% 1982 and average; emerged 90%, 91% 1982 and average; blooming less than 5%, also 1982 and average. Wheat harvest virtually finished, same as 1982 and average. Corn and sorghum good. Pastures average. Cattle good condition.

CALIFORNIA: A vigorous trough at midweek brought cool air to State and showers to Eureka, Ukiah, and Tullake. The coastal temperatures were above normal while the inland areas fell well below the seasonal normals by 6th. The remainder of the week saw cloudy skies and gusty winds over most of the State as the trough made its way slowly across the State.

Crops continue 1 to 2 weeks behind normal. Temperatures continued mild. Cotton 66% squared, same as 1982, average 85%. Bolls set 10% fields, 15% last year, average 19%. Normal insect control underway. Small grain harvest rapid with reduced acreage. Winter wheat 90% harvested, 75% last year, average 84%. Irrigated yields small grains suffered Sacramento Valley from blanking due wet soil, cool weather. No rice headed average 1%. Broadleaf weed control finishing north, active south. Dry beans good stands. Still some second crop seeding. Early corn tasseling. Still some second crop seeding. Alfalfa hay harvest active, yields, quality good. Harvest active: avocados, Desert Table grapes, stonefruit, summer grapefruit, Valencia oranges. Brown rot problem on Clingstone peaches. Insect control active on almonds, walnuts. Green bean harvest active. Broccoli, cauliflower harvest active Central Coast. Cantaloup harvest slowing Desert. Carrot harvest slowing Desert, moderate other areas. Celery harvest slowing South Coast, increasing Central Coast. Sweet corn harvest complete Desert increasing other areas. Lettuce harvest active Central Coast. Spring potato harvest active Kern district. Good volume strawberries market and processing. Market tomato harvest active South Coast increasing San Joaquin Valley. Processing tomato harvest decreasing Desert, started San Joaquin Valley. Watermelon harvest slowing Desert, started San Joaquin Valley. Wind continued dry ranges pastures increasing fire danger. Grasshopper populations decreasing few foothill areas. Warm days cool nights causing pneumonia in cattle.

COLORADO: Hot and dry most of the week; turning cool toward the end. Average temperatures 1 to 3° above normal. Scattered showers received late on 10th.

Winter wheat in very good condition: 85% turning color, 90% last year and average; 15% ripe, 33% last year, 37% average; 2% harvested, 4% last year, 8% average. Corn in good condition; 99% emerged, normal; height 22 in., 25 in. last year, 27 in. average. Sorghum in good condition: 96% planted, normal: 87% emerged, same as last year and average. Barley, oats and spring wheat in very good condition. Barley 64% headed, 70% last year; 25% turning color, 39% in 1982; 2% ripe, 6% last year. Statewide 6.5 days suitable for fieldwork. Topsoil moisture short to adequate with subsoil adequate. Range and pasture conditions very good.

FLORIDA: Entire period dominated by high pressure, light winds, plenty of sunshine, with usual afternoon, evening thunderstorms. Varying rainfall amounts scattered over the State.

Soil moisture mostly adequate, some wet areas in west central and northeast. A few dry spots in north. Early corn maturing; crop in good to excellent condition. Peanuts, cotton, soybeans mostly good condition. Soybean planting about complete. Sugarcane good to excellent condition. Tobacco harvest full swing. Hay-making active in drier areas. Grazing conditions continued mostly good to excellent. However, pastures in several central, north central Peninsula areas would benefit from additional rains. Condition of cattle, calves varies from fair to excellent, but is generally good. Citrus groves good condition. Moisture adequate, very little irrigation. Abundant new foliage, new crop fruit progressing very well. Current Valencia orange harvest all but over. Normal summer weather continued in vegetable areas with hot days, warm nights, scattered afternoon and evening thunderstorms. Total shipments declined 35% from previous week. Harvest increased cucumbers. Volume about steady cabbage and okra shipments declined seasonally for all other vegetables still in production. Sweet corn and watermelon harvest continue active but past peak.

GEORGIA: Hot and humid with scattered thunder-showers Statewide initially. Then only along the coast and the extreme south by week's end. Less hot and drier north and central by end of week. Scattered rainfall generally 0.50 to 1.50 in. The 9th temperatures 3 to 5°. Milder than normal, but moderated to near normal by early 11th. No rainfall except isolated showers southeast late 8th.

Soil moisture variable: 21% short, 70% adequate, 7% surplus. Average days suitable for fieldwork 4.7 days. Haying and fungus control very active. Corn condition 30% fair, 61% good, 8% excellent; 90% silked, last year 88%, average 99%; dough 55%, last year 79%, average 75%; dent 23%, last year 48%, average 50%; mature 4%, last year 16%, average 20%. Cotton condition 38% fair, 55% good, 5% excellent; squaring 85%, last year 95%, average 93%; setting bolls 33%, last year 61%, average 70%. Peanut condition 27% fair, 59% good, 13% excellent; blooming 89%, last year 95%, average 95%; pegging 66%, last year 76%, average 81%. Soybean condition 26% fair, 67% good, 6% excellent; planting 97%, last year 95%, average 97%; blooming 14%, last year 18%, average 17%. Tobacco condition 5% poor, 40% fair, 53% good; harvest 15%, last year 40%, average 29%. Sorghum condition 36% fair, 59% good; planting 91%, last year and average 88%. Watermelon condition 5% poor, 46% fair, 48% good; harvested 28%, last year 65%, average 57%. Peach condition

27% very poor, 22% poor, 22% fair, 27% good; picking 77%, last year 73%, average 70%. Apple condition 20% very poor, 23% poor, 40% fair, 17% good. Wheat harvest 97%, last year and average 98%. Hay condition 45% poor, 33% fair, 56% good, 6% excellent. Pastures 29% fair, 62% good, 5% excellent.

HAWAII: Island weather was generally favorable for crop growth. Most areas received light showers which provided crops with much needed moisture. In other growing areas, irrigation was necessary to insure crop progress. Supplies of most vegetables remain moderate to heavy with production running ahead of year ago levels. Watermelon production in full swing while papaya supplies will decrease slightly.

IDAHO: Wet, cool weather prevailed at the beginning and end of the week with warm dry weather the rule during the middle. Temperatures ranged from near normal in the southeast to 5° below normal over the remainder of the State. Precipitation was heavy in southeast over the weekend while it was above normal at most stations over the rest of the State.

The winter wheat harvest getting underway as 28% of the crop had turned color compared to 24% last year. Over 5% of the spring wheat and barley had also changed color. The first cutting of alfalfa nearly 80% complete, slightly behind the previous year's 82%. Almost 30% of the potato crop had closed rows versus 41% last year. Some ranges had been damaged by fire but most were in good condition. Livestock also doing well.

ILLINOIS: Temperatures 10 to 14° below normal beginning week, 2 to 7° above normal end week. Precipitation 0.01 to 0.40 in.

Soil moisture 26% short, 71% adequate, 3% surplus. Days suitable fieldwork: 5.5. Corn average height 48 in., 1982 60 in.; average 55 in.; height most advanced fields 64 in., 1982 71 in., average 72 in.; silking 6%, 1982 28%, average 18%. Condition 24% excellent, 64% good, 12% fair. Soybeans 21% blooming, 1982 37%, average 26%; condition 7% excellent, 73% good, 20% fair. Winter wheat 98% ripe, 1982 98%, average 98%; 70% harvested, 1982 71%, average 72%. Oats 94% filled, 1982 96%, average 96%; 60% turning yellow, 1982 56%, average 60%; 16% ripe, 1982 18%, average 22%; condition 5% excellent, 65% good, 27% fair, 3% poor. Alfalfa hay 2nd crop 50% cut, 1982 41%, average 48%; condition 5% excellent, 75% good, 20% fair. Clover hay 99% cut, 1982 96%, average 99%; condition 7% excellent, 83% good, 10% fair. Pasture condition 15% excellent, 64% good, 20% fair, 1% poor. Livestock condition satisfactory.

INDIANA: Temperatures averaged 2 to 6° below normal with some record lows in the mid 40's to low 50's. Highs in the upper 80's to low 90's. Scattered precipitation generally less than a 0.30 in. in north and 0.30 to 0.80 in. central through south. Growing degree day totals 119 to 156 and 8 to 33 less than normal.

Fieldwork averaged 4.8 days. Topsoil and subsoil moisture adequate. Wheat 25% combined, 1982 average 45%. Wheat 80% ripe, 1982 95%, average 85%. Rye 35% combined, 1982 30%, average 35%. Oats 2% harvested. Corn and soybean condition good. Corn 0% silked, 1982 15%, average 10%. Corn 38 in. tall, 1982 60 in., average 46 in. Soybeans 100% planted, 1982 100%, average 100%. Soybeans 10 in. tall, 1982 20 in., average 12 in. Soybeans 10% in bloom, 1982 25%, average 25%. Alfalfa hay 30% cut twice, 1982 25%, average 45%.

IOWA: Cool, dry weather early week which warmed by late week into the hot, humid 90's over all but northeastern counties where high's were mostly mid-to-upper 80's. Subnormal crop season precipitation continues over the south and east central districts with the need for more rain reported. Temperature extremes 42° at Elkader and 96° at Shenandoah and Sioux City. Daily evaporation averaged from 0.25 to 0.30 in.

Days suitable 5.5. Corn cultivated 1st time 96%; 89% last year; 97% normal. Corn tasseled 2%; 0% last year; 11% normal. Soybeans cultivated 1st time 80%; 63% last year. Soybeans bloomed 10%; 1% last year; 15% normal. First crop alfalfa hay harvested 98%; 100% last year; 100% normal. Second crop alfalfa hay harvested 15%; 11% last year; 29% normal. First crop clover hay harvested 85%; 88% last year; 94% normal. Oats headed 90%; 100% last year; 100% normal. Oats turning color 25%. Winter wheat harvested 5%; 7% last year; 23% normal. Topsoil moisture 13% short; 68% adequate; 19% surplus. Subsoil moisture 3% short; 62% adequate; 35% surplus.

KANSAS: Isolated showers early in week south-east and east central, otherwise no precipitation. Temperatures averaged mid to upper 70's--2 to 5° below normal eastern 2/3, near normal southwest and west central, 3° above normal northwest.

Wheat 70% harvested, 60% last year, 80% average. Corn 1% silked, 10% last year, 15% average. Sorghum 95% planted, 85% last year, 98% average; 0% headed, 0% last year, 1% average. Soybeans 95% planted, 80% last year, 95% average; 5% bloomed, 4% last year, 10% average. Alfalfa second cut 40% complete, 45% last year, 70% average; third cut 2% complete, 2% last year, 5% average. Row crops good to excellent except few scattered counties. Pasture and range continue good to excellent. Subsoil moisture generally adequate; surface moisture short to adequate northwest, southwest, central, adequate elsewhere. Days suitable for fieldwork: 5.5.

KENTUCKY: Rainfall received early in week followed by drier weather. Temperatures averaged 3 to 4° below normal. Rainfall varied less 0.50 in. in west to 2.00 in. southeast.

Soil moisture 8% short, 80% adequate, 12% surplus. Corn fair; 4% silked, 28% last year, 21% average, spraying for weeds. Soybeans 90% planted, 97% last year, 98% average. Emerged crop fair to good. Few early beans blooming. Spraying for weeds. Tobacco fair to good, 40% plus plants over one foot tall. Some manganese toxicity and disease problems. Blue mold reports limited. Wheat harvest 78% complete, last year virtually finished. Harvesting hay. Pastures good to excellent.

LOUISIANA: Rainfall scattered. Totals 0 to 2.02 in. Temperatures normal in south to 4° below normal north. High 95°, low 56°.

Soil moisture adequate. Days suitable 4.9. Corn silked 91%, 93% 1982, 91% average. Dough 51%, 83% 1982, 70% average. Mature 7%, 34% 1982, 24% average. Condition fair to good. Cotton squaring 51%, 92% 1982, 82% average. Setting bolls 1%, 21% 1982, 28% average. Condition fair. Rice headed 27%, 38% 1982, 48% average. Condition fair to good. Sorghum planted 99%, 99% 1982, 99% average. Condition fair to good. Soybeans planted 95%, 95% 1982, 98% average. Emerged 90%, 96% 1982, 94% average. Blooming 9%, 16% 1982, 18% average. Condition fair. Sweetpotatoes transplanted 98%, 99%

1982, 97% average. Condition fair to good. Sugarcane condition good. Wheat harvest virtually complete this year and last, 95% average. Hay first cutting 91%, 96% 1982. Pecans rated good. Peaches harvested 62%, 68% 1982. Condition good. Vegetables rated fair to good. Pasture and livestock rated good.

MARYLAND AND DELAWARE: Warm, sunny week with little precipitation. Temperatures were 1° above normal. Rainfall averaged 0.06 to 0.53 in.

Delaware: Days suitable for fieldwork: 6.0. Soybeans 90% planted, 99% 1982, 95% average. Barley harvested 100%, last year 100%. Rye 50% harvested, last year 55%. Wheat harvested 70%, 82% 1982. Peas harvested 60%, last year 94%. Both snap beans and cucumbers 20% harvested, last year both 50%. Second cutting of alfalfa 50%, last year 83%. Other hays 25% cut, last year 30%. Topsoil moisture short to adequate. Subsoil moisture adequate to surplus.

Maryland: Soybeans 99% planted, last year 99%, average 98%. Tobacco 95% planted, 99% last year and on average. Wheat and oats 100% turned, last year both 100%. Barley 97% harvested, last year 100%. Oats 40% harvested, 25% last year. Rye 67% harvested, 61% 1982. Wheat 66% harvested, last year 66%. Peas 96% harvested, 1982 94%. Snap beans 32% harvested, last year 50%. Cucumbers 16% harvested, 25% last year. First cutting of alfalfa 100% completed, last year 100%. Other hays 100% cut, last year 90%. Second cutting of alfalfa 50%, 1982 55%. Other hays 35% harvested twice, last year 35%. Soil moisture was in short to adequate supply. Days suitable for fieldwork: 6.0.

MICHIGAN: This was a very pleasant week across the State, even though temperatures averaged 3° below normal. Evening temperatures fell to unseasonable lows over the northern counties. There was enough precipitation to partially replenish many areas where there was a need for moisture. The heaviest precipitation fell over the upper Peninsula.

Fieldwork very active during the week with haying and cultivating dominating the activities. Statewide 6.0 days were suitable for fieldwork. Soil moisture supplies becoming short for most of the State. Soybean planting 100% complete, 100% last year, 100% average. Soybeans 3% blooming, 7% last year, 4% average. Corn 0% silking, 0% last year, 0% average. Winter wheat 70% yellowing, 85% last year, 78% average. Oats 70% headed, 85% last year, 84% average. All hay, first cutting, 90% complete, 90% last year, 91% average. Strawberries 85% harvested, 90% last year, 93% average. The fruit crop is doing well with warmer weather conditions. Sweet and tart cherry harvest has begun in the southwest part of the State. Vegetable crops growing well, but need sustaining moisture.

MINNESOTA: Mostly sunny and cool early in the week; hot and sunny the rest of the week, with light to moderate winds. Temperatures averaged near normal to 3° above normal. High: 99°, low: 37°. Precipitation averaged 0.25 to 0.86 in. below normal. Greatest weekly total: 1.26 in.

Fields got a chance to dry out after heavy weekend rains. Number of days suitable for fieldwork: 3.7. First crop hay being completed quickly; considerable spoilage from recent rains. Scattered areas of soybean replanting due to hail. Weed problems severe where fields remained wet. Some insect and disease problems in northwest district. Row crops benefitting from high temperatures. Small grains pushed very quickly by heat and may be

susceptible to stress if temperatures remain high. Topsoil moisture: 3% short, 52% adequate, 45% surplus. Cultivated-once: Field corn 82%, 1982 94%, normal 95%; soybeans 73%, 1982 82%, normal 90%; sunflowers 79%, 1982 85%, normal 91%. Height in inches: Field corn 27, 1982 29, normal 36; soybeans 10, 1982 10, normal 12; sunflowers 15, 1982 11, normal 20. Tasseling: Field corn 1%, 1982 0%, normal 3%. Blooming: Soybeans 2%, 1982 6%, normal 14%. Sunflowers 0%, 1982 0%, normal 2%. Heading: Spring wheat 87%, 1982 66%, normal 76%; oats 92%, 1982 80%, normal 83%; barley 90%, 1982 69%, normal 79%. Turning ripe: Spring wheat 2%, 1982 1%, normal 10%; oats 4%, 1982 4%, normal 13%; barley 8%, 1982 6%, normal 17%.

MISSISSIPPI: Temperatures below normal except for coastal areas, extremes 51 and 97°. Rain early in week most locations. Greatest 24-hour 1.18 in. Greatest weekly total 1.37 in.

Soil moisture adequate to surplus. Fieldwork 4.3 days suitable, 5.1 last year, 4.6 average. Soybeans 86% planted, 98% last year and average; 3% blooming, 4% last year, 12% average; condition fair. Cotton 84% squaring, 97% last year, 92% average; 2% setting bolls, 29% last year, 17% average; condition fair. Rice 0% headed, 2% last year, 4% average. Corn 55% silked, 83% last year, 80% average; 22% dough stage; condition good to fair. Sorghum 97% planted, 96% last year, 94% average; 3% headed, 25% last year. Winter wheat 89% harvested; hay 52%; peaches 40%; watermelons 4%. Pasture condition good.

MISSOURI: Temperatures averaged 4 to 5° below normal for most of the State. Daytime highs were in the 80's, and nighttime lows were in the mid-50's to mid-60's. Rain averaged 0.25 to 0.75 in., with heavy rain in the western Ozarks averaging over 3.00 in. for the week.

Days suitable for fieldwork: 5.6. Corn 9% tasseled, 31% last year. Double-crop soybeans 59% planted, 75% last year. Soybeans 7% blooming, 8% last year and 10% normal. Wheat 53% harvested, 60% last year and 65% normal. Oats 20% harvested, 34% last year and 35% normal. Second cutting alfalfa hay 43% harvested, 49% last year and 51% normal. Other hay 81% harvested, 68% last year. Cotton 37% squared, 95% last year and 73% normal. Cotton condition 100% fair. Corn condition 13% excellent, 69% good and 18% fair. Soybean condition 6% excellent, 52% good, 40% fair and 2% poor. Pastures 3% excellent, 67% good, 27% fair and 3% poor. Topsoil moisture supplies 1% surplus, 64% adequate and 35% short.

MONTANA: Continued very hot and dry over northeast and southeast. Temperatures averaged 6 to 8° above normal these areas, 1 to 3° above central areas and 1 to 4° below normal in southwest and west. Most areas of southeast and northeast had 3 or 4 days of 100 plus temperatures and hot winds. Moderate to heavy precipitation late in week over southwest, north central and central, 0.50 to 2.00 in., but very dry over northeast and southeast. Mostly light precipitation in west and south central.

Topsoil moisture replenished to mostly adequate except southeast and extreme northeast. Crops fair to good. Drought damage spotty. Winter wheat 98% headed, last year 60%, average 85%. Spring wheat and barley 70% headed, last year 5%, average 25%. Alfalfa 60% cut, last year 25%, average 45%.

NEBRASKA: Precipitation nil except isolated showers over Panhandle and extreme north. Amounts ranged from 0.28 in. to less than

0.10 in. Temperatures 2 to 3° above normal west, near normal east.

Winter wheat good. Harvest begun and 6% complete, 10% last year and 45% normal. Ripe 45%, last year 50%, normal 80%, corn good. Heavy infestations of corn borer being treated. Sorghum good. Soybeans good. Blooming 15%, last year 2% and 10% normal. Alfalfa good. Second cutting 20%, last year 15%, normal 45%. Topsoil moisture short to adequate. Sub soil moisture adequate. Days suitable for fieldwork 6.9.

NEVADA: Some clouds, but week mostly sunny. Although precipitation limited to mainly trace amounts across State. Cool weather over northern area predominated. Temperatures averaged below normal across north rising to above normal throughout the south. Extreme 118 and 29°.

Development small grains now about normal due to warm daytime temperatures. Row crops slightly behind average in growth due to slow start earlier this spring. Range feed prospects still favorable.

NEW ENGLAND: Temperatures averaged close to normal, with extremes of 100° in Springfield, Vermont and 36° at Wilmington, Vermont. Precipitation occurred as thunderstorms and local heavy downpours with accumulations as much as 2.47 in.

Soil moisture conditions adequate. Potato crop condition rated fair to good. First cut hay 85% harvested, 75% last year. Second cut 5% harvested. Field corn growth excellent.

NEW JERSEY: Temperatures averaged 2° below normal. Extremes were 44° on the 11th and 100° on the 5th. Weekly rainfall averaged 0.04 in. north, 0.61 in. central and 0.12 in. south. The heaviest 24-hour total 1.64 in. on the 5th to 6th. Estimated soil moisture, in percent of field capacity, averaged 67% north, 61% central and 46% south. Four inch soil temperatures today average 71° north, 76° central and 76° south.

Topsoil moisture becoming short. Temperatures extremely varied. Harvest of summer vegetables increasing but continues behind schedule. Blueberry volume good. Bluecrop variety currently being harvested. Peach harvest of the Clinstone varieties begun. Apples sizing well. Barley, wheat and rye combining active. Hay making progress well under good drying conditions. Field corn and soybeans growing well. Soybean planting continues following grain harvest. Pastures need rain.

NEW MEXICO: Average weekly temperatures a few degrees above normal. Showers, thundershowers over central and west 0.25 to 0.75 in. amounts. Minimum temperature 39°, central highlands. Maximum temperature 104° southern Desert. Cotton fair to good, significant progress last 2 weeks. Squared 64%, 80% last year, 85% average. Setting bolls 1%, 5% last year, 19% average. Alfalfa in good condition. Second cutting 50% complete. Wheat harvest 95% complete. Barley harvest 80% complete. Irrigated grain sorghum good, dryland fair to good. Corn fair to good. Peanuts, potatoes, good condition. Mesilla Valley onion harvest continues. Chile fields behind normal, fair to good condition. Cattle, ranges fair to good. Sheep good.

NEW YORK: Warm, dry week allowed good fieldwork progress. Most areas need rain.

Good corn growth. Most oats headed, wheat turned. Hay regrowth slowing. First cut alfalfa 92% done, 50% 1982, 68% average. Clover-timothy hay 75% done, 30% 1982, 52% average. Grass silage 90% cut, 60% 1982, 74%

average. Hudson Valley sweet cherry harvest nearly complete, western sweet harvest in full swing. Tart cherries coloring rapidly; early harvesting in Columbia Co. Apples, peaches good condition. Vegetable crops condition good. Sweet corn tasseling. Oswego Co. lettuce harvest underway.

NORTH CAROLINA: Temperature 2° below normal Statewide. Precipitation spotty, heavy at times during the first part of the week. Soil moisture: 9% very short, 36% short, 53% adequate, 2% surplus. Days suitable for fieldwork: 5.7. Condition: Tobacco: 3% poor, 39% fair, 58% good. Corn: 4% poor, 33% fair, 54% good, 9% excellent. Cotton: 30% fair, 67% good, 3% excellent. Peanuts: 25% fair, 71% good, 4% excellent. Soybeans: 35% fair, 64% good, 1% excellent. Apples: 5% poor, 47% fair, 48% good. Peaches: 48% poor, 24% fair, 28% good. Soybean Planting progress: 98%, 1982 91%, 98% average. Phenological stages: Cotton squared: 53%, 1982 92%, 81% average. Cotton setting bolls: 8%, 1982 29%, 25% average. Corn silked: 65%, 1982 83%, 73% average. Corn soft-dough: 9%, 1982 39%, 27% average. Corn dent: 1%, 10%, 1982, 12% average. Soybeans blooming: 2%, 5% 1982, 3% average. Harvests: Irish potatoes 61%, 74% 1982, 75% average. Small grains virtually complete. Flue-tobacco: 2%, 9% 1982, 6% average. Major farm activities: Topping and suckering tobacco, small grain and hay harvest, soybean planting, cultivating and spraying for weed control on soybeans, tobacco and peanuts and truck crop harvesting. Potatoes: 4% poor, 38% fair, 54% good, 4% excellent.

NORTH DAKOTA: Temperatures slightly above normal. The week began with below normal temperatures and ended with the warmest weather of the year. Extremes from 101 to 34°. Precipitation ranged from well above normal in the west central and central to well below normal in the north central and southwestern districts.

Crops mostly good to excellent condition. Small grain maturity ahead of last year. Row crop development ahead of last year but near the average pace. Percent heading or beyond compared to last year and average for hard red spring wheat 66, 44, 55; durum 42, 31, 42; and barley 69, 54, 62. Average height of sunflower 19 inches, last year 14, normal 18. Topsoil moisture conditions below last year, but slightly better than average. Specifically 2% very short, 39% short, and 59% adequate. Normally, 45% short to very short, 54% adequate and 1% surplus. Farmers haying, spraying, summer fallowing, cultivating and readying machinery for harvest. Leaf diseases a concern. Sunflower beetles, grasshoppers, aphids a problem in crops.

OHIO: Temperatures below seasonal levels early week, recovered to seasonal levels and were still climbing at close of period. Extremes ranging from lower 90's to 40's. Precipitation averaged generally 0.25 to 0.50 in.

Corn condition good, developing behind last year, but slightly ahead of late 1981 crop. Currently 12 leaves fully emerged. Soybeans, wheat also good. No major problems at this time. A few more reports of wheat lodging. Winter wheat harvested 15%, 15% 1982, 15% average. Soybeans planted 100%, 100% 1982, average 100%. Soybeans blooming 0%, 0% 1982, 0% average. Corn silking 0%, 0% 1982, 0% average. Alfalfa, 2nd cutting 20%, 25% 1982, 10% average. Other hay, 2nd cutting 10%, 10% 1982, 10% average. Oats ripe or beyond 10%, 15% 1982, 15% average. Days favorable 4.5. Pasture condition good. Soil moisture 4% short, 87% adequate, 9% surplus.

OKLAHOMA: Temperatures averaged from 1° below normal Panhandle to 5° below normal in east and central regions. Rainfall averaged from none in the Panhandle and central to 0.58 in. in the southeast.

Wheat harvest virtually complete with all regions reporting 90% or more of harvest completed. The majority of remaining wheat in wet fields. Grain sorghum made average progress last week but remains 1 to 2 weeks behind normal progress. Cotton remained in good to fair condition with some fields in southwest starting to square. Cattle remained in very good condition. Marketings were slow across most of the State because of wheat harvest. Insects continue to be a problem in east, but control programs have been started. Wheat harvested: 95%; 80% 1982, 97% average. Grain sorghum planted: 90%; 85% 1982, 100% average. Cotton squaring: 15%, 2% 1982, 15% average. Cotton setting bolls: 0%, 0% 1982, 0% average.

OREGON: Rainfall during the week left 0.50 to 1.80 in. along coast and northern Cascades; up to 1.30 in. in Willamette Valley; up to 0.30 in. in eastern regions; up to 0.80 in. central region. Temperatures averaged 5 to 7° below normal east of Cascades; 3° below normal in the Willamette Valley.

Winter wheat 1% harvested, 0% 1982; 0% average. Barley harvest in full swing. Harvesting of grass seed slowed by rain; some crimson clover damaged in the Willamette Valley. Second cutting of hay underway in Umatilla Co. Red raspberry harvest at peak; some damage caused by modl and fruit rot. Harvest of blueberries, boysenberries, blackberries and marion berries is underway. Rains have caused cherry cracking in the Hood River Valley. Early potato harvest 1 to 2 weeks away in the Hermiston-Boardman area. Green pea harvest in Umatilla Co. winding down; good yields expected in late fields. Pea and broccoli harvest continuing in Willamette Valley. Livestock good. Pasture and range good to excellent.

PENNSYLVANIA: Week began hot and humid. Scattered thunderstorms preceeding a cold front brought little precipitation but much cooler air. Scattered frost reported in the north central mountains with minimum temperature records broken in many parts of the State. Extremes were 96 and 34°.

Days suitable: 6.0. Moisture, mostly adequate. Activities: Double cropping soybeans in wheat and barley stubble; making hay and haylage; top-dressing alfalfa; cultivating row crops; side-dressing corn; spraying corn, alfalfa and soybeans; combining barley and wheat; baling straw; and trimming pastures. Soybean planting virtually complete, same as last year. Barley 28% turning yellow, 24% ripe and 48% harvested, last year 24% turning yellow, 28% ripe and 39% harvested. Wheat 13% headed, 61% turning yellow, 22% ripe and 4% harvested, last year 10% headed, 70% turning yellow, 16% ripe and less than 5% harvested. Oats 69% headed, 13% turning yellow and less than 5% ripe, last year 77% headed, 18% turning yellow and 5% ripe. Average corn height 27 inches, last year 37 inches. First cutting alfalfa virtually complete, last year 93% complete. Second cutting alfalfa 19% complete, last year 20% complete. First cutting clo-tim 85% complete, last year 81% complete. Quality of hay made good to fair. Feed from pastures average to above average.

PUERTO RICO: Island average rainfall 3.41 in. or 2.29 in. above normal. Highest weekly total 12.33 in. Highest 24-hour total 6.15 in. Temperature averaged about 82 to 81° on coasts

and 76 to 75° Interior Divisions. Mean station temperature ranged from 83.2 to 68.0°. Extremes 95 and 62°.

SOUTH CAROLINA: Hot and humid first, then midweek drier air lowered temperatures. Scattered thundershowers widespread through 6th. Days suitable for field activities: 5.3. Soil moisture short to adequate.

Corn condition fair to good, responding to rains; 68% silked, 98 year ago, 87 average; 1% mature near 3 last year, behind 12% average. Cotton 87% squaring, 99% last year, 91% average; 40% setting bolls, behind 67% last year and 55% average; condition fair to good. Soybeans were 96% planted, 95% last year, 97% average; 1% blooming, none last year, 3% average; condition fair to good. Peach harvest getting into this seasons volume producers, Statewide condition poor to fair. Apple condition poor to fair. Tomatoes 81% harvested, 95% last year, 92% average. Watermelon harvest at 12%, behind year ago 31, 44 average.

SOUTH DAKOTA: Average temperatures 10° above west to 2° below southeast. Extremes: 103 and 41°. Early week rainfall less than 1.00 in. across the north. Later half of week hot and dry throughout State.

Days suitable for fieldwork: 5.0. Small grains in mostly good condition. Winter wheat and rye harvest two weeks from full swing. Corn short to spotty in many parts of important southeastern area. Winter wheat harvested 0%, 1982 0%, average 11%. Winter wheat ripe 10%, 1982 9%, average 43%. Winter wheat turning 72%, 1982 66%, average 88%. Sorghum planted 100%, 1982 100%, average 100%. Spring wheat headed 91%, 1982 92%, average 95%. Corn silking 0%, 1982 0%, average 0%. Corn height 20 in., 1982 22 in., average 31 in.

TENNESSEE: Scattered thundershowers first of week followed by cooler and drier air. Temperature highs in upper 80's or low 90's. Lows in upper 60's or lower 70's. Temperature averages below normal.

Days suitable for fieldwork: 4.6. Soil moisture levels 21% short, 70% adequate, 9% surplus. Pastures and livestock good. Soybeans planted 97%, 1982 95%, average 94%; blooming 5%, 1982 10%, average 11%. Wheat harvested 90%, 1982 95%, average 93%. Cotton squaring 45%, 1982 92%, average 73%; setting bolls 0%, 1982 15%, average 13%. Corn tasseling 21%, 1982 43%, average 41%; dough 5%, 1982 4%, average 7%. Blue mold confirmed in 26 tobacco counties.

TEXAS: The early part of week was dominated by a cold front pushing slowly through State. Thunderstorms developed evening of 4th over northwest Texas. The area of storms spread east and south, bring rains of 1.82 in. at Dallas, while isolated areas in Rill County collected over 2.00 in. High pressure dominated the State for the remainder of week, with temperatures cooler than normal. During week, the northern half of the State averaged 1 to 4° below normal, while the southern half was near normal. The High Plains was their normal amount. The damp area of South Texas collected about twice their normal, while the Upper Coast was about half.

Crops: Although few scattered showers fell across some areas of State, most of the week was hot and dry. Irrigation increased most areas to offset moisture demands. The hot weather hastened maturity of corn and grain sorghum in South Texas and the development of cotton on the Plains. Conditions were favorable for wheat harvest, and harvest of hay was active. Cotton benefited from hot temperatures

across State; however, Plains area would welcome additional moisture. Some insect problems in portions of Low Plains. Some early harvest activity continued in Rio Grande Valley. Sorghum planting neared completion on High Plains. While sorghum making good progress in North Texas, the hot weather aided maturity in South and South Central Texas. Some harvest activity began in Coastal Bend and continued in Rio Grande Valley. The South Texas corn crop drying down with the help of summer temperatures. On High Plains corn being irrigated and making good progress. Wheat harvest advanced rapidly during the week with favorable conditions. Both dryland and irrigated yields have been very good with record yields in many areas. Peanuts benefited from scattered showers in North Texas and Cross-Timbers. Rice continues to grow normally with some improvement following warmer temperatures. Soybeans making good progress; however, moisture is needed in some dryland areas.

Cotton squaring 34%, 1982 37%, average 52%; cotton setting bolls 9%, 1982 12%, average 18%; cotton open bolls 0%, 1982 1%, average 3%. Rice headed 44%, 1982 92%, average 84%; rice turning color 7%, 1982 15%, average 27%. Sorghum planted all purposes 99%, 1982 100%, average 100%; sorghum headed 64%, 1982 67%, average 64%; sorghum turning color 42%, 1982 51%, average 49%; sorghum mature 24%, 1982 24%, average 27%; sorghum harvested for grain 5%, 1982 13%, average 16%. Wheat turning color 100%.

Commercial vegetables: In Rio Grande Valley, harvest of vegetables and melons tapered off. Some supplies cantaloups, watermelons, tomatoes and okra still available. Spraying, irrigation of citrus trees continues. In San Antonio-Winter Garden area, harvest of melons and summer vegetables remains active. Cucumbers, okra, tomatoes, cantaloups and watermelons available. In East Texas, vegetable harvest active. Supplies of beans, peas, squash, cucumbers, tomatoes, onions, potatoes, and sweet corn available. In Trans-Pecos area, onion harvest nearing completion. On Plains, onions and potatoes continue to make rapid progress. Peach harvest active across the State and supplies plentiful. Pecans making good progress.

Range and livestock: Although some scattered showers received across State, most areas had hot, dry conditions. Stock water getting low some areas. Livestock holding up very well. Some culling. Shipping of lambs on Edwards Plateau.

UTAH: Scattered thundershowers most State. Accumulations light to moderate. Temperatures near normal ranging 4° below to 6° above.

First crop hay harvest winding down, 92% cut. Yield and quality down due to weeds. Fall seeded grains ripening fast. Winter wheat 97% headed, 65% turning color. Corn in only fair condition after late start. Fruit crops rate good to excellent. Sweet cherry harvest started--tart cherries to begin July 20. Grass and brush fires have lessened with weekend showers.

VIRGINIA: Hot, humid conditions for first two days gave way to excellent field conditions after the 6th following the passage of a cold front. Precipitation was spotty over the west. The only precipitation over central and eastern parts was associated with a frontal system 6th. Temperatures averaged 1 to 2° below normal.

Light showers and warm temperatures pulled topsoil moisture down to 62% short, 36% adequate and 2% surplus. Growth has generally

been good but moisture is needed to prevent any losses. Days suitable for fieldwork averaged 5.5. Corn condition was still rated good with 72% in silk compared to last year's 43% and the average of 34%. Soybean conditions were also rated good. Seeding was 92% complete compared to last year's 91% and the average of 95%. Showers have slowed wheat harvest and thus some double-crop soybean seeding. Peanuts were rated in good condition as pegging and spraying for leaf spot continued. Tobacco condition was rated fair to good with additional moisture needed. Early flowering was still a problem. Cultivating and sidedressing continued.

WASHINGTON: Large area of low pressure at surface and aloft remained nearly stationary over Gulf of Alaska throughout week. Weak front moved from the low early in period and brought some light rain to most of State. Another, somewhat stronger, front crossed State late in week and produced more significant rainfall on both sides of Cascades. Flow about the low continued to bring cool moist air into State and weekly average temperatures again significantly below seasonal normals.

East and West: Small amount wheat and barley being harvested. Rain hampered harvesting of grain and hay in many areas. First cutting alfalfa hay not complete due to rain. Some second cutting started. Field crops all areas average to above average condition. Strawberry harvest almost complete. Raspberry harvest continues, excellent prospects. Blueberry harvest underway but has slowed due to rains. Eastside, grape crop prospect excellent. Apple scale and fire blight problems in northern apple and pear areas. Midseason vegetable harvest continues and looks good. Processing corn needs sunshine. Lettuce, broccoli, early pea harvesting underway. Spring cauliflower harvest began. Walla Walla County sweet onion harvest in progress. Abundant moisture kept ranges and pastures in good condition. Livestock in good shape. Haying and green chopping continues. Winter wheat harvest 0%, 1982 0%, average 0%.

WEST VIRGINIA: Temperatures averaged below normal except in the eastern Panhandle where they were above average. Low 32°, high 96°. Some light frost reported the morning of the 7th. Precipitation below normal in the northern half of State and above normal in the southern half. Range: zero to 2.59 in.

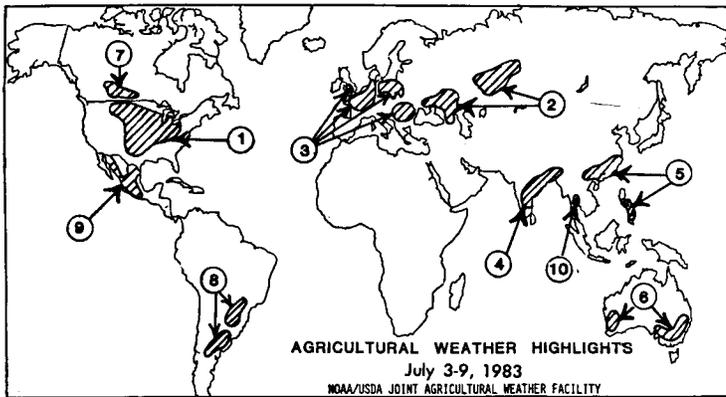
Soil moisture adequate to short. Days worked averaged 4.5. Main activities: Hay harvesting, gardening, maintenance and pasture clipping. Small grains in good to fair condition. Wheat: 40% headed, 45% ripe and 15% harvested; 23%, 60% and 17% in 1982. Barley: 10% headed, 51% ripe, 39% harvested; 16%, 32% and 52% in 1982. Oats: 20% pre-headed, 67% headed, 7% ripe, 6% harvested; 6%, 75%, 12% and 7% in 1982. Corn was fair to good with 99% emerged, same as in 1982. Pasture and hay was in good to fair condition. The first cutting of hay 83% complete and the second was 10% complete, 78% and 17% in 1982. Tobacco was in fair to good condition. Gardens were reported in good to fair condition. Fruit was in fair condition.

WISCONSIN: The week started off mild with highs in the 60's to low 80's gradually warming into the 80's and 90's by the end of the week. Very cool night time lows in 30's to low 50's occurred in the early part of the week, these lows reached the 60's and 70's by the end of the week.

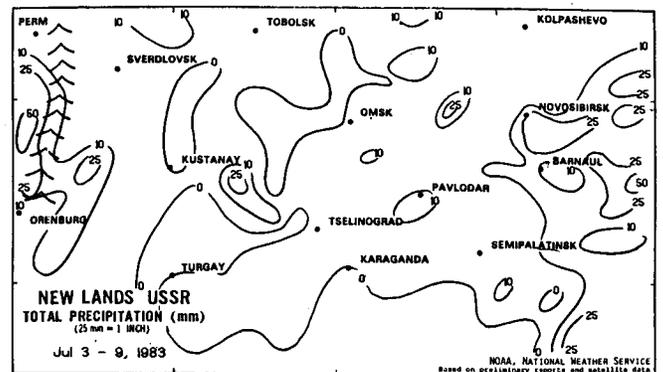
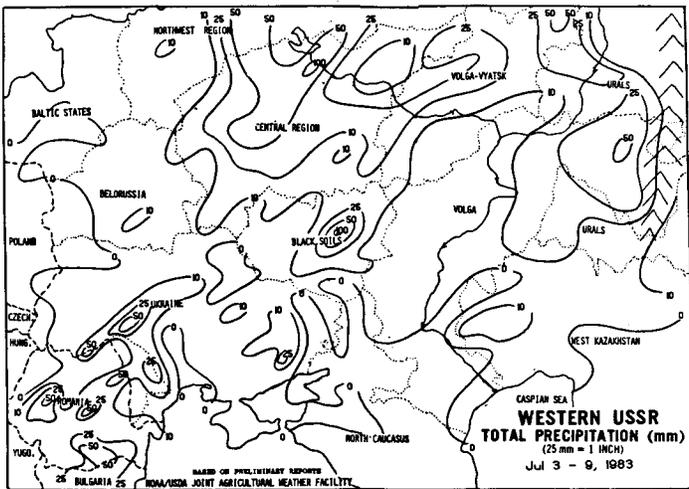
Generally, very dry, with scattered showers occurring only on 4th. Highest temperature recorded was 96° at Eau Claire on 9th,

International Weather and Crop Summary

July 3 to 9

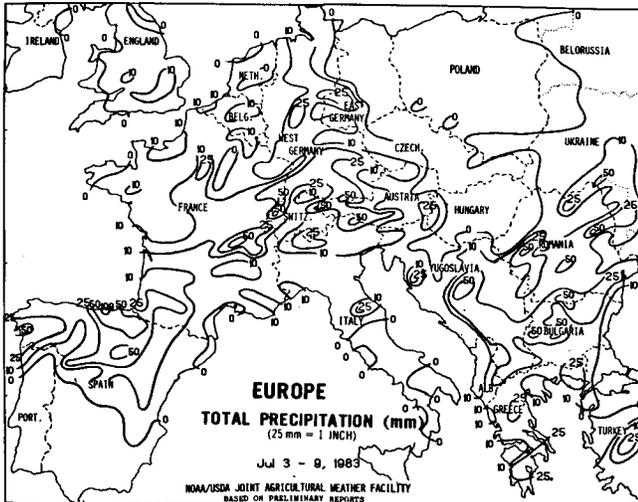


1. UNITED STATES ... Timely rains maintain rapid crop growth in the Corn Belt. Good weather speeds wheat harvest in central and southern Plains while promoting crop development further northward and eastward. Rains approaching eastern Montana offer potential for improving soil moisture and crops.
2. USSR ... Rain is needed to maintain yield prospects for corn in southeast European USSR and spring wheat in parts of the New Lands. Weather conditions are generally favorable for crops elsewhere.
3. EUROPE ... Light showers maintain generally favorable moisture conditions for crops in the northwest. Summer crops are being stressed by unfavorable dry weather in East Germany and Poland, but benefit from widespread rains in the southeast.
4. SOUTH ASIA ... Rain is benefiting the winter rice region planting. Dry conditions in western peninsular India are favorable for cotton, groundnuts, and autumn rice.
5. EASTERN ASIA ... Southern rice areas are benefiting from dry weather. Excessive rain in the Yangtze Valley continues to be unfavorable for cotton and rice. Scattered showers are benefiting corn, soybeans, and cotton in the North China Plain and Manchuria.
6. AUSTRALIA ... Generally favorable weather aids emergence and early growth of wheat throughout the grain belt. Timely showers helped newly emerged crops in the west and south while dry weather favors fieldwork in the east.
7. CANADA ... Showers and thunderstorms covering the Prairie Provinces eased stress conditions for wheat heading in the southwest, but aggravated excess moisture conditions in the north where localized crop yellowing has occurred.
8. SOUTH AMERICA ... Torrential downpours continued to inundate southern Brazil causing widespread flooding; dry weather is aiding Brazil's coffee harvest; and seasonably cool, dry weather is favorable for fieldwork in Argentina's wheat areas.
9. MEXICO ... Southern Plateau rains benefit corn growth while hot, mostly dry weather stresses northern crops and livestock.
10. SOUTHEAST ASIA ... Generally light monsoon activity brought beneficial rain to the central corn region of Thailand. Rains advanced northward into the Philippines but dry conditions continue in central Luzon.

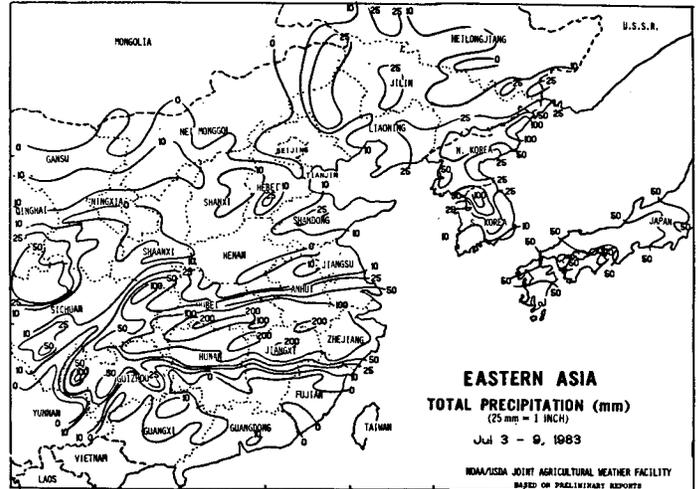


USSR...Wet weather continued to cover the Central Region, the Volga Vyatsk, and the Urals, benefiting both spring grains, in the heading stage, and summer crops. Generally dry weather returned to crop areas of the West European USSR, where soil moisture conditions should be favorable. Corn producing areas of the North Caucasus and eastern Ukraine have been stressed by unfavorably warm, dry weather for the past few of weeks. The corn crop, approaching the tasseling stage, has been rapidly depleting limited soil moisture reserves in order to maintain its growth. Rain is needed soon to maintain favorable yield prospects in these areas.

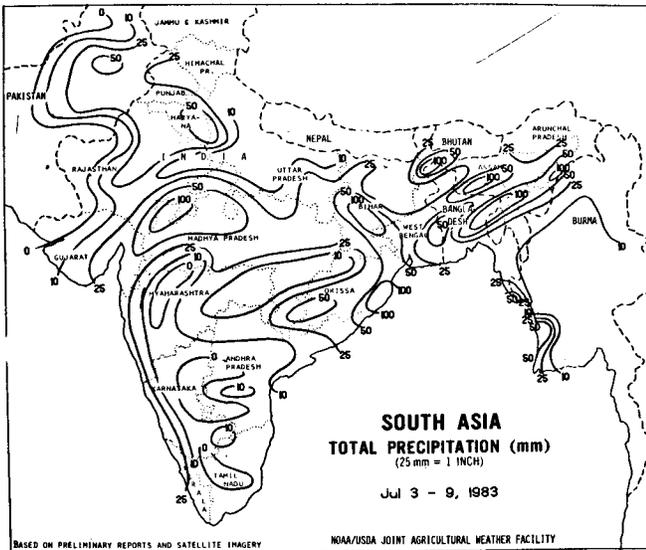
In the New Lands, a light, scattered precipitation pattern covered most of the region. Soil moisture conditions remained generally favorable in the northwestern and southeastern portions of the region. However, spring grain areas around Orenburg, northeastward through Omsk and Novosibirsk, continued to be stressed by unseasonably warm, dry weather. Rain is needed soon in these crop areas to maintain favorable yield prospects for spring grains which are approaching the critical heading stage.



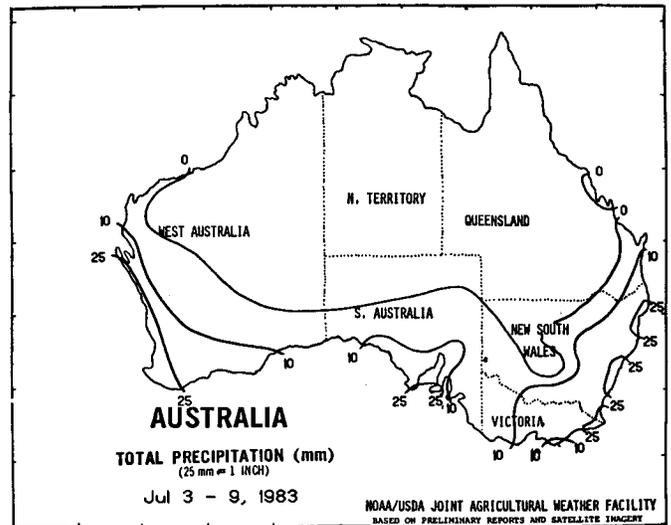
EUROPE...Light showers early in the week maintained favorable growing conditions for summer crops in southern England, France, the Netherlands, Belgium, and West Germany. Dry weather returned to these areas late in the week, allowing access to fields. Mostly dry weather covered East Germany and Poland where more rain would benefit spring and summer crops. In the southeast, wet weather continued to provide ideal moisture conditions for summer crops such as corn, sunflowers, and sugarbeets; however, grain harvest delays were likely in many areas. Drier weather returned to much of Italy, while unseasonably wet weather in northern Spain improved reservoir levels.



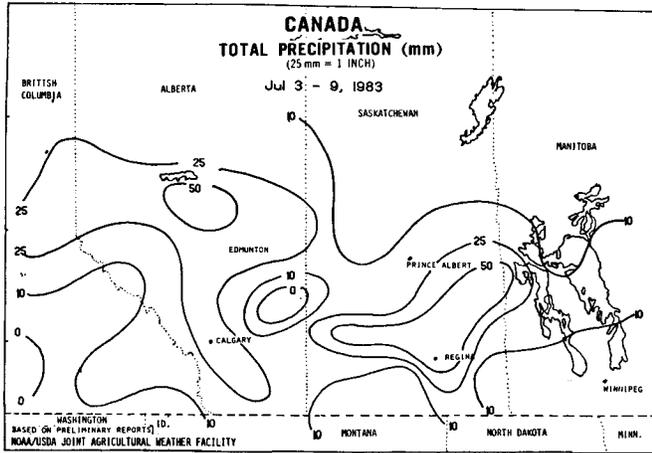
EASTERN ASIA...Clear skies and warm temperatures the past few weeks have been beneficial for China's southern coastal rice crops. Early rice is normally harvested in July and intermediate rice is in the mid-reproductive stage. However, heavy rain (100-300 mm) continues to plague crops in the Yangtze Valley. The excessive wet weather, cool temperatures, and cloudy skies are delaying rice development and are unfavorable for cotton in the flowering stage. A band of showers extended from Shanxi, southern Hebei, and into Shandong, benefiting cotton, early corn, and early soybeans, all in the reproductive stage. Heavy precipitation, mostly outside the major crop areas, fell in northeastern China and North Korea. However, some of the moisture benefited Manchurian corn and soybeans in the early reproductive stage. Temperatures in the northeast were cooler than normal, slowing crop development.



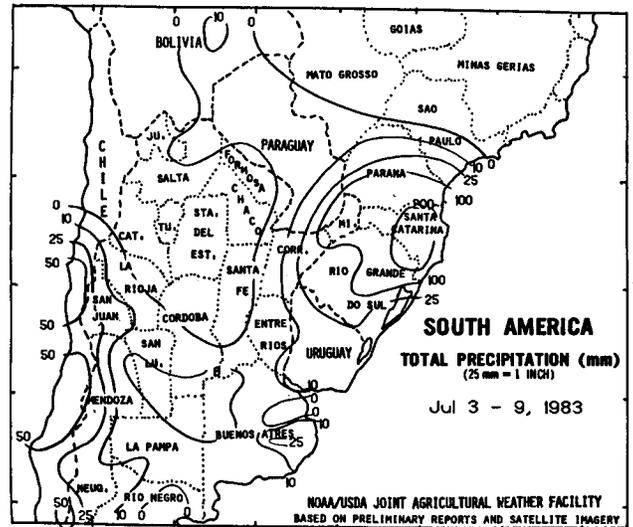
SOUTH ASIA...Heavy rain early in the week benefited the winter rice areas of India and Bangladesh. Unfavorably dry weather covered India through the middle part of the week. Satellite data indicated that rain fell late in the week in Andhra Pradesh, Myahrashttra, and Orissa benefiting autumn rice which is in the early vegetative stage. Because of the late onset of the rainy season, the southwest coast is far behind seasonal normal precipitation accumulations creating unfavorable conditions for autumn rice. Below-normal precipitation this week in the cotton and groundnut region continues to slow planting progress. Temperatures were below-normal across northern India, while above-normal temperatures further complicated the dry conditions in peninsular India.



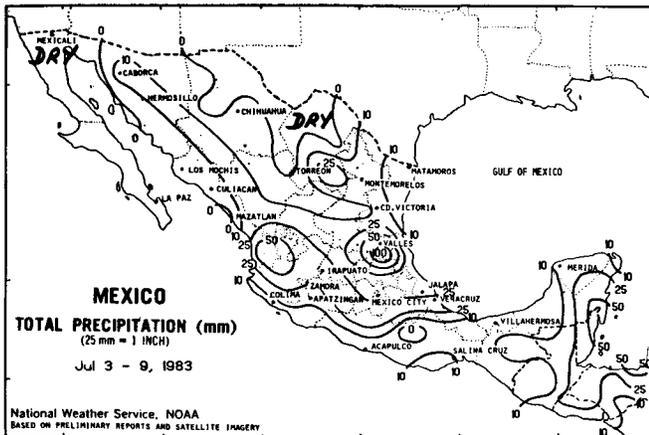
AUSTRALIA...Timely showers in Western Australia aided late wheat planting and crop germination and emergence. Frequent showers during the past several weeks have improved early growth conditions in western crop areas. Beneficial showers eased the dryness which had been stressing newly-emerged crops in South Australia. Minimal rain fell in western Victoria but coastal showers brought some moisture to the eastern wheat areas of Victoria and New South Wales. Wheat is in generally good condition in the east, except in northern New South Wales and southeastern Queensland where earlier flooding hampered planting. Mostly dry weather during the past 2 weeks helped relieve saturated soil conditions.



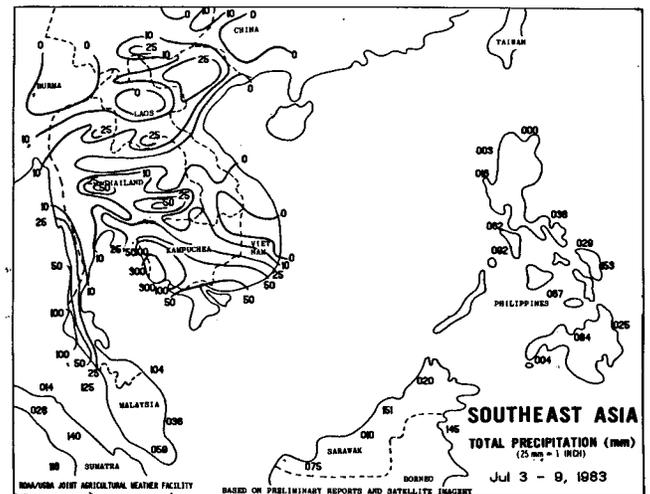
CANADA... Showers and thunderstorms covered nearly all of the Canadian Prairie grain belt. Some rain fell over southern crop areas of Alberta and Saskatchewan, where wheat was heading early because of dry conditions. This moisture helped ease stress conditions, but additional rain is needed very soon, especially since warm weather covered the region during the last half of the week. The heaviest rain occurred over the northern crop areas of these two major grain-producing states. Crops are advancing through late vegetative growth and are beginning to head and flower in generally good condition but locally excessive moisture has been unfavorable for crop development. Some yellowing of crop vegetation has been reported across the northern grain/oilseed region. Rainfall was generally light in Manitoba, relieving excess moisture conditions, especially in south-central areas.



SOUTH AMERICA... Torrential downpours inundated southern Brazil again. Weekly rainfall in excess of 100 mm occurred over a large area encompassing southern Parana, Santa Catarina, northern Rio Grande do Sul and extending into the northeast corner of Argentina. Over 200 mm of rain fell in eastern Santa Catarina and northeastern Rio Grande do Sul. The impact on the winter wheat crop will be substantial as waterlogging, poor seedling establishment and leaching of soil nutrients will result. Widespread flooding is likely to cause serious disruptions to the agricultural activity of the region. Generally dry weather aided coffee harvesting in Sao Paulo and adjacent states, while seasonably cool and mostly dry weather covered Argentina's wheat area. The long wheat planting season can extend into August in Argentina.



MEXICO... Rains were widespread across the southern Plateau corn belt, benefiting crop development. The heaviest rain fell in the western and central districts. The moisture should be adequate for crop growth which is probably still in the vegetative stage because of the late onset of the rainy season. Light showers dotted the northwestern mountain watersheds and northeast, but rainfall was generally too sparse and light to be of much importance. Crops and livestock continue to be heavily stressed over parts of the northern regions, especially the northeast.



SOUTHEAST ASIA... Monsoon activity was relatively light over most of Indochina this week. Light showers extended across northern Thailand and Laos. Moderate rain (about 50 mm) benefited the central corn area, where the crop is nearing the tasseling stage. Moderate to very heavy rain fell in southeastern Thailand and Kampuchea, bringing beneficial moisture to the rice crop. Above-normal temperatures in Thailand are advancing corn and rice crops through the vegetative stage. Moderate to heavy rain fell in the Philippines as far north as southern Luzon. Precipitation is still far below normal, delaying rice planting.



**WEEKLY NEWS BULLETIN
SECOND CLASS**

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, \$300

(continued from p. 20)

and at Ashland and Iola on 10th. The lowest temperature recorded was 36° at Lake Thompson on 6th. Days suitable for fieldwork: 4.0. Soil moisture 8% short, 87% adequate, 5% surplus.

WYOMING: Afternoon temperatures over 100° in many central and eastern sections. Nights cool. Averages near normal. Precipitation mostly light. Snake and Upper Platte drainages near normal. Elsewhere amounts below normal.

Topsoil moisture adequate 65%, last year 54%. Days suitable for fieldwork: 7.0. Winter wheat headed 85%, normally, 17% harvested. Barley headed 55%, normally, 78% headed. Spring wheat headed 50%, normally 67% headed. Oats headed 40%, normally, 60% headed. All crops fair to good condition. Most sugarbeets thinned. Alfalfa, first cutting complete 50%, normally, 64% completed. Other hay acreage harvested 30%, normally 26% harvested.

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

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

Heating Degree Days (Base 65° F.)

June 1983

ALA. Birmingham	0	MAINE, Caribou	146	OKLA. Okla. City	9
Mobile	0	Portland	101	Tulsa	149
Montgomery	0	MD. Baltimore	6	OREG. Astoria	294
ALASKA Anchorage	267	MASS. Boston	22	Duras	68
Barrow	906	Chatham	100	Medford	95
Fairbanks	133	MICH. Alpena	154	Pendleton	81
Juneau	-	Detroit	59	Portland	135
Nome	465	Flint	65	Salem	23
ARIZ. Flagstaff	222	Grand Rapids	61	PA. Allentown	67
Phoenix	0	Houghton Lake	116	Erie	25
Tucson	0	Lansing	66	Harrisburg	2
Winslow	16	Marquette	207	Philadelphia	44
Yuma	0	S. Ste. Marie	169	Scranton	41
ARK. Fort Smith	3	MINN. Duluth	185	S.C. Charleston	13
Little Rock	0	Internal Falls	153	R.I. Providence	1
CALIF. Bakersfield	0	Minneapolis	49	Columbia	1
Bureka	17	Rochester	86	Greenville	1
Fresno	0	St. Cloud	114	S. DAK. Aberdeen	89
Los Angeles	23	MISS. Jackson	0	Huron	83
Red Bluff	0	Meridian	0	Rapid City	113
Stockton	0	Vicksburg	-	Sioux Falls	67
San Diego	0	MO. Columbia	14	TENN. Chattanooga	0
San Francisco	113	Kansas City	29	Knoxville	3
COLO. Denver	129	St. Louis	7	Memphis	0
Grand Junction	19	Springfield	16	Nashville	0
Pueblo	50	MONT. Billings	82	TEX. Abilene	0
CONN. Bridgeport	29	Glasgow	97	Amarillo	32
Hartford	24	Great Falls	155	Austin	0
D.C. Washington	0	Havre	135	Beaumont	0
FLA. Apalachicola	0	Helena	152	Brownsville	0
Fort Myers	0	Kalispell	227	Corpus Christi	0
Jacksonville	0	Miles City	68	Dallas	-
Key West	0	Missoula	189	Del Rio	0
Daytona Beach	0	NEBR. Grand Island	37	El Paso	0
Miami	0	Lincoln	25	Fort Worth	2
Orlando	0	Norfolk	38	Galveston	0
W. Palm Beach	0	North Platte	89	Houston	0
Tallahassee	0	Omaha	26	Lubbock	13
Tampa	0	Valentine	90	Midland	3
GA. Atlanta	0	NEV. Ely	207	San Angelo	3
Augusta	0	Las Vegas	0	San Antonio	0
Macon	0	Reno	77	Victoria	0
Savannah	0	Winnemucca	103	Waco	0
IDAHO, Boise	82	N. H. Concord	82	Wichita Falls	4
Lewiston	51	N. J. Atlantic City	16	UTAH, Milford	36
Pocatello	143	Trenton	-	Salt Lake City	87
ILL. Cairo	38	N. MEX. Albuquerque	0	VT. Burlington	77
Chicago	38	Roswell	58	VA. Lynchburg	9
Moline	17	N. Y. Albany	68	Norfolk	3
Peoria	17	Binghamton	71	Richmond	2
Rockford	34	Buffalo	71	Ronoke	14
Springfield	14	New York	78	WASH. Colville	-
IND. Evansville	4	Rochester	67	Omak	266
Fort Wayne	25	Syracuse	13	Seattle-Tacoma	149
Indianapolis	30	N. C. Asheville	9	Spokane	113
South Bend	17	Charlotte	9	Walla Walla	40
IOWA, Burlington	17	Greenboro	0	Yakima	90
Des Moines	14	Hatteras	7	W. VA. Beckley	46
Dubuque	25	Raleigh	2	Charleston	16
Sioux City	38	Wilington	128	Huntington	16
KANS. Concordia	20	N. DAK. Bismarck	74	Parkersburg	16
Dodge City	20	Fargo	101	WIS. Green Bay	100
Goodland	72	Williston	45	Madison	57
Topeka	13	OHIO. Akron-Canton	21	Milwaukee	81
Wichita	20	Cincinnati	56	Wyo. Casper	156
KY. Lexington	7	Cleveland	30	Cheyenne	233
Louisville	5	Columbus	28	Lander	125
LA. Baton Rouge	0	Dayton	55	Sheridan	89
Lake Charles	0	Toledo	0		
New Orleans	0	Youngtown	0		
Shreveport	0				