

WEEKLY WEATHER AND CROP BULLETIN

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

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

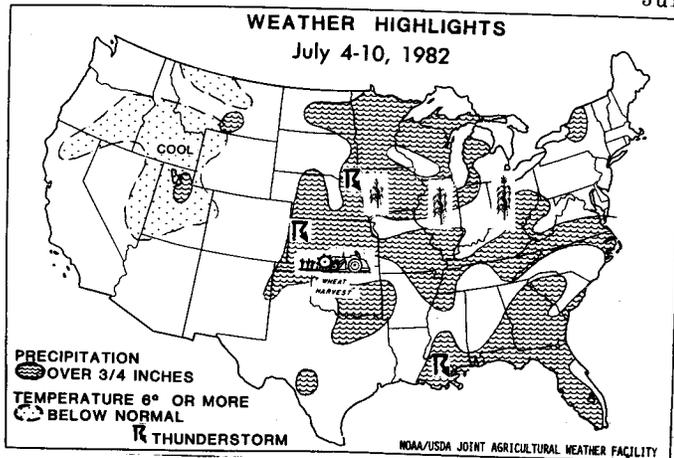
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July 13, 1982

National Weather Summary

July 4-10



TUESDAY...A cold front moved into Minnesota, Missouri, Oklahoma, and extended southwestward triggering thunderstorms and severe weather along and ahead of it. The most severe storms concentrated in the eastern half of Oklahoma and in Minnesota, Wisconsin, Iowa, and northern Illinois. Tornadoes, hail, and heavy rain wrought damage in all of these areas. Widely scattered thunderstorms covered areas in the Southeast, Northwest, and in southern Arizona. Temperatures cooled behind the front but rose to the nineties ahead of it.

WEDNESDAY...The cold front moved to a line from western New York to north-central Texas and through the Texas Panhandle. Thunderstorms and severe weather erupted all along the front but were closest together from north-central Texas to north-western Arkansas. More isolated heavy storms reached from the Texas Panhandle into southeastern Colorado. Light showers fell over the western slopes of the Rockies and the Plateau. Showers and thunderstorms were scattered throughout the East ahead of the cold front.

THURSDAY...Showers and thunderstorms were scattered over the southeastern quarter of the Nation ahead of the weak cold front. The most severe weather struck the lower Mississippi Valley and the Ohio Valley. The return of southerly winds into the Plains and Rockies brought moisture that triggered showers and thunderstorms through the Rockies, the central Plateau, and the central and northern Plains. Widespread storms covered the western two-thirds of Kansas, north-central Oklahoma, and North Dakota. Warm weather spread over the East and the Southwest.

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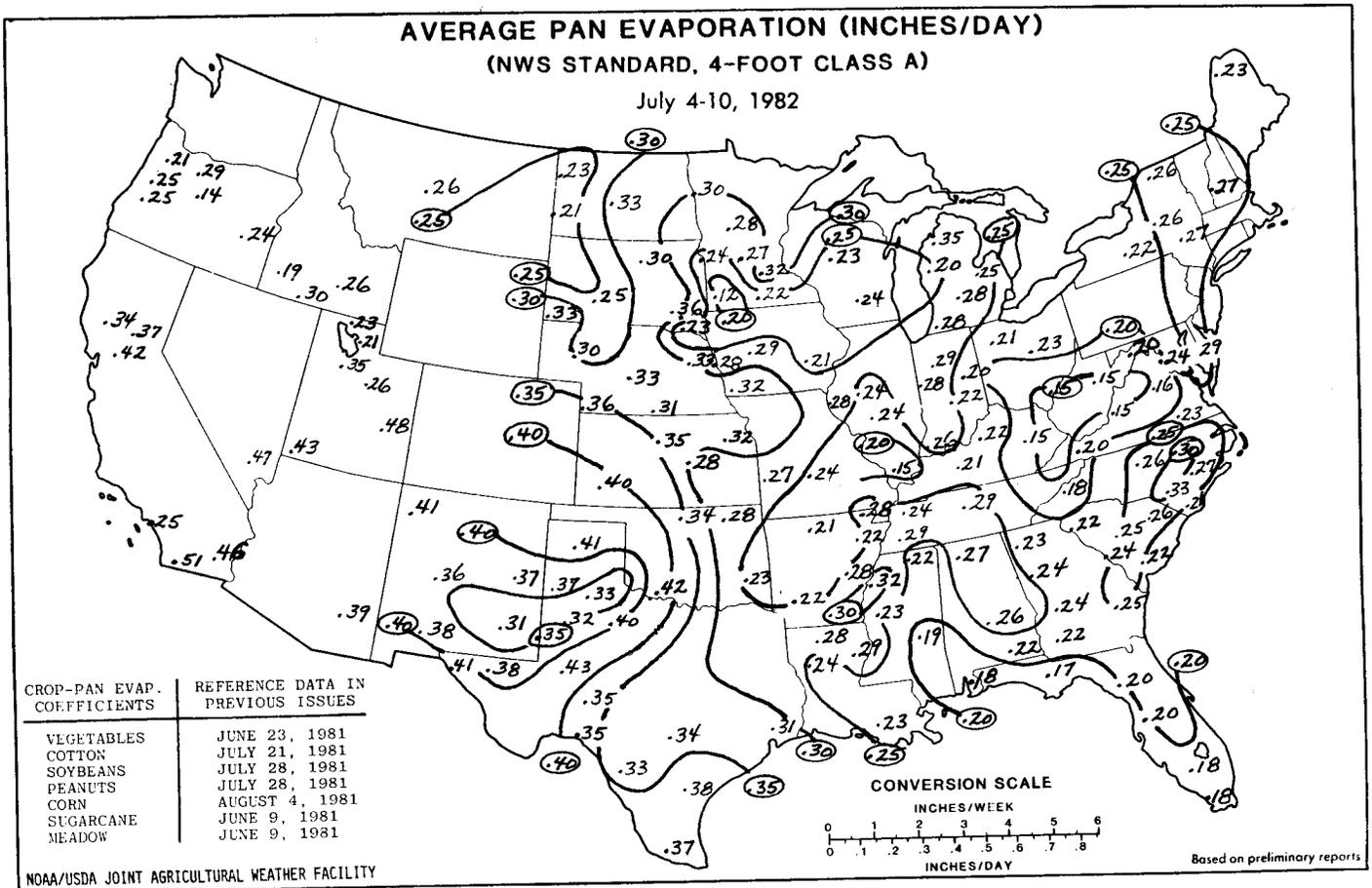
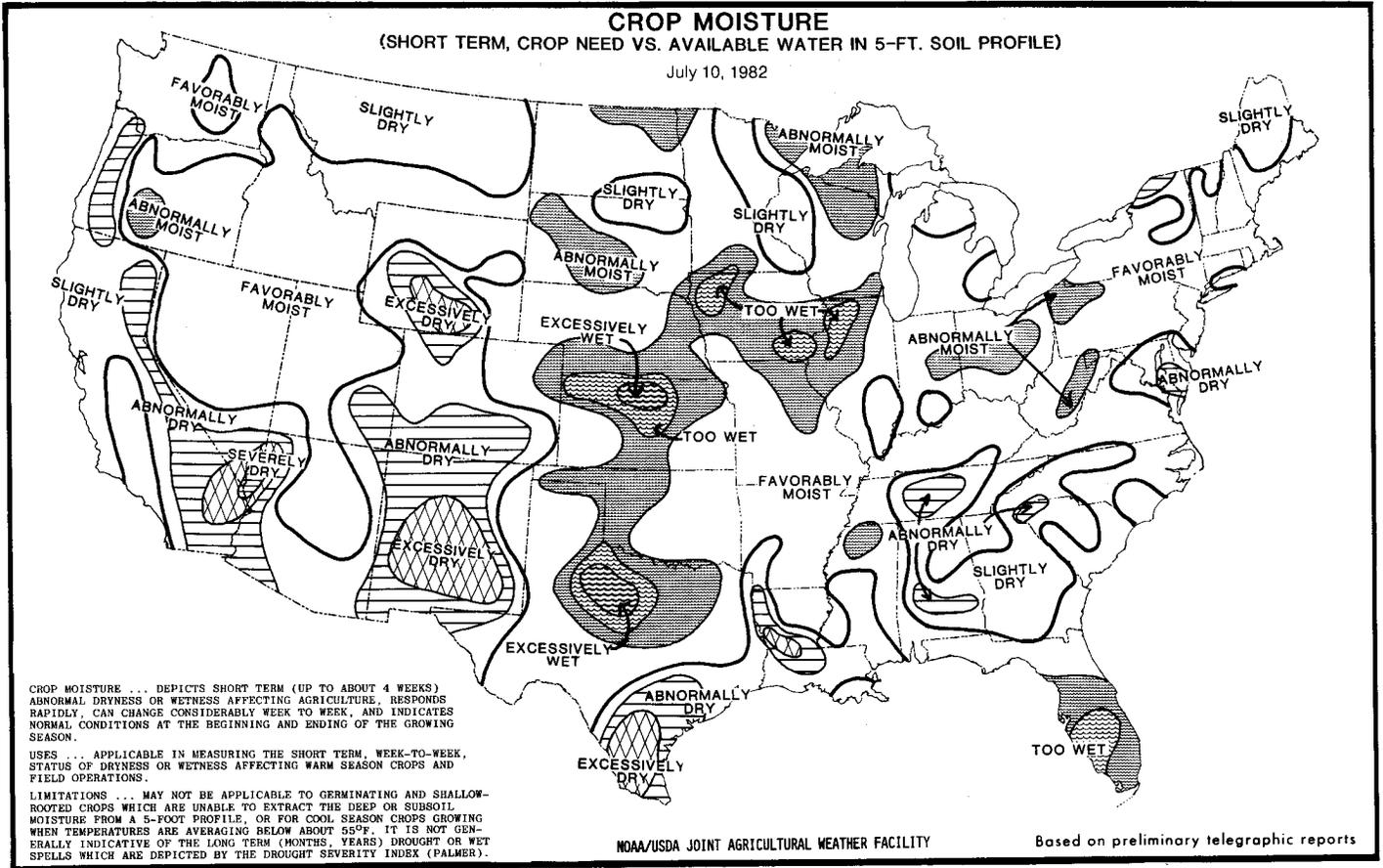
HIGHLIGHTS: Widespread showers and thunderstorms covered most of the area east of the Rockies. Little or no rain fell from southeastern Texas into south-central Arkansas or from New England into central Pennsylvania, but most of the East accumulated significant amounts of rain. Heavy downpours caused local flooding in parts of eastern Nebraska, Kansas, Iowa, Illinois, Oklahoma, and Texas. Light rainshowers and a few thunderstorms covered most of the Rockies and Plateau. Warmer-than-normal average temperatures spread through the Corn Belt and near-normal temperatures through most of the East. The West was cooler than normal--as much as 7 to 9° cooler over the central Plateau.

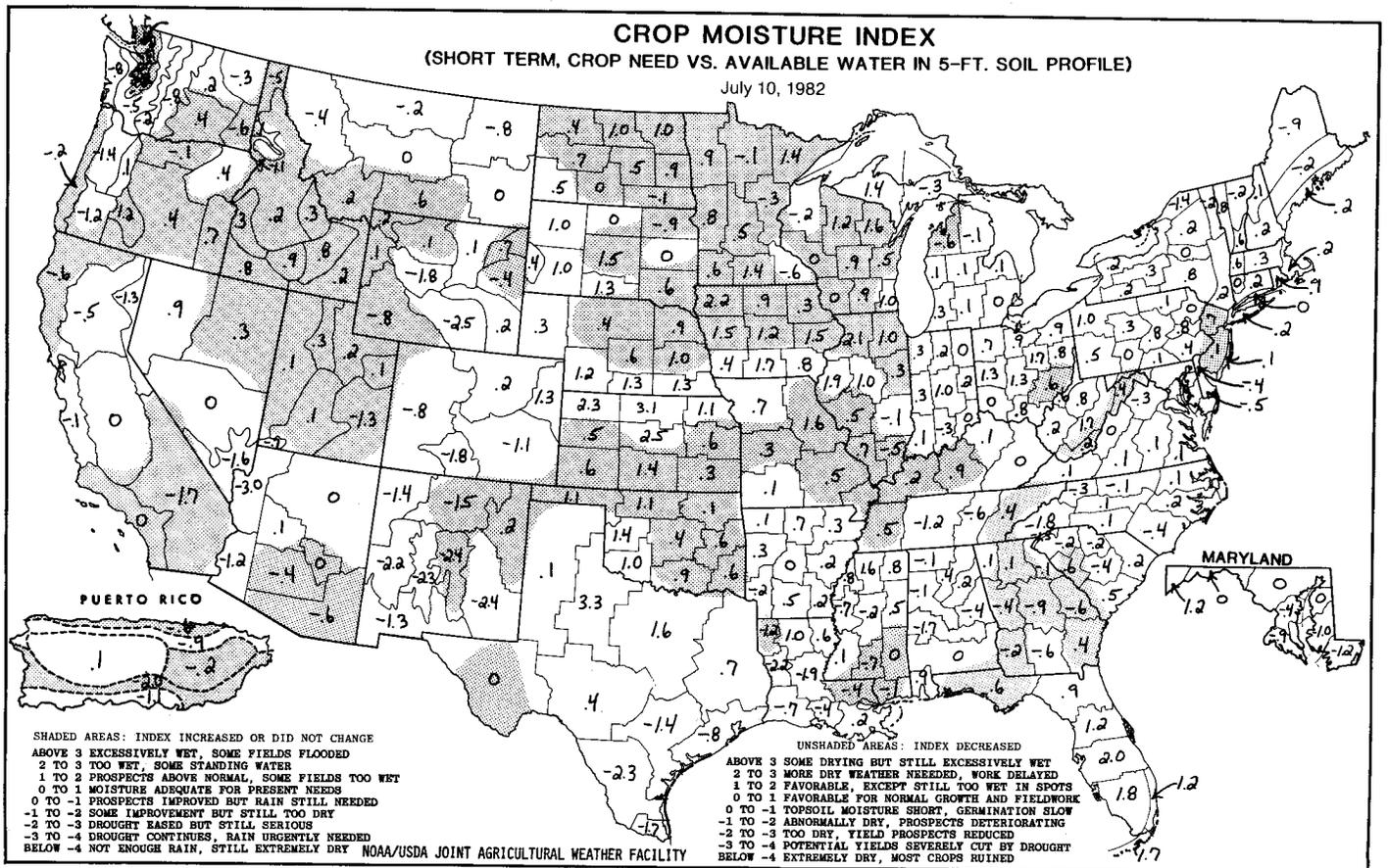
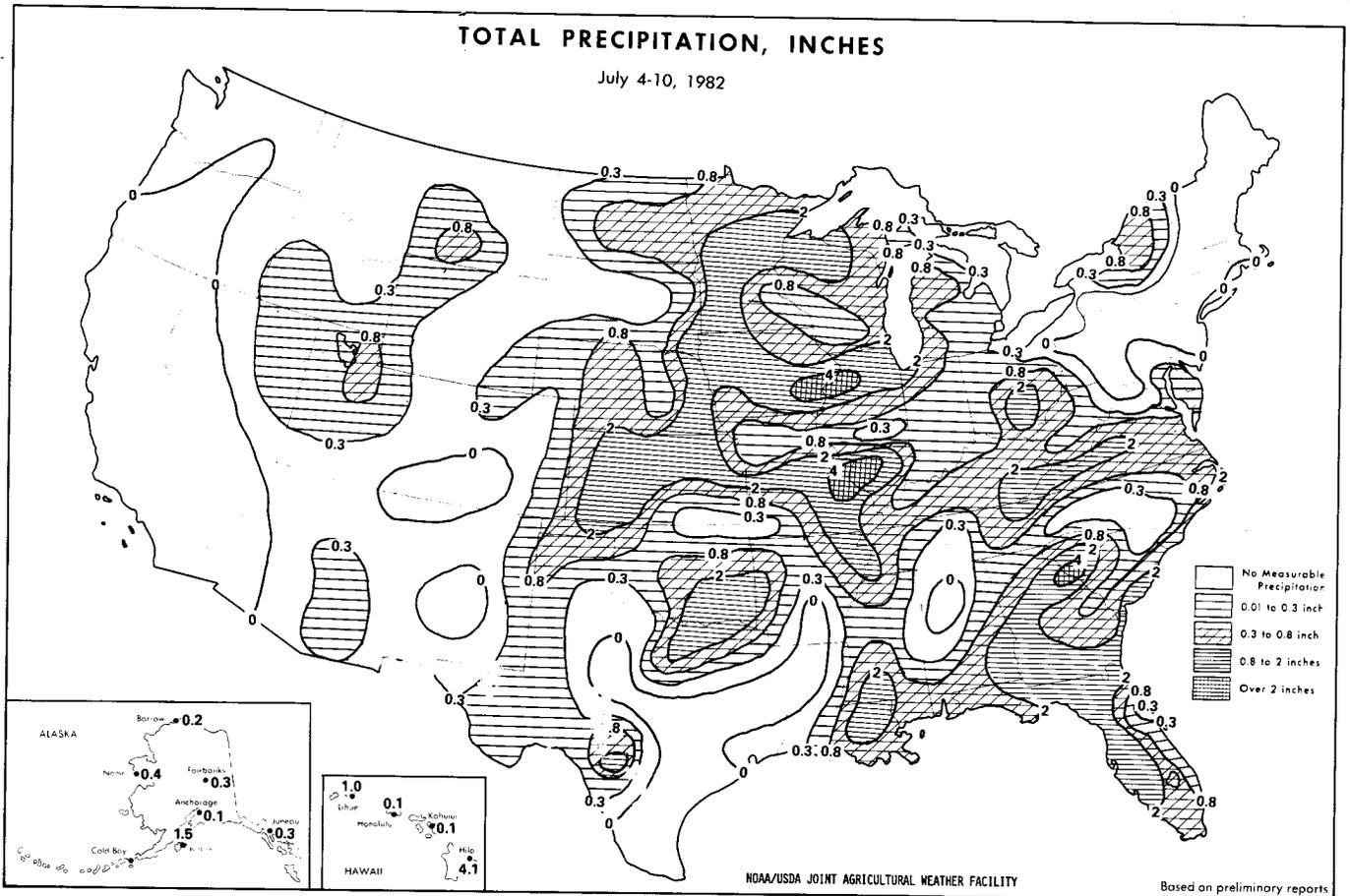
SUNDAY...Another day of respite from showers and thunderstorms through most of the Plains allowed harvesting to progress. A few showers fell along the eastern slopes of the Rockies, and more intense showers and thunderstorms covered North Dakota and south-central Texas. Thunderstorms produced light rain over the Pacific Northwest, along the central Mississippi River, the Ohio and Tennessee Valleys, and from Virginia to Florida. Warm daytime temperatures spurred crop development throughout the Plains.

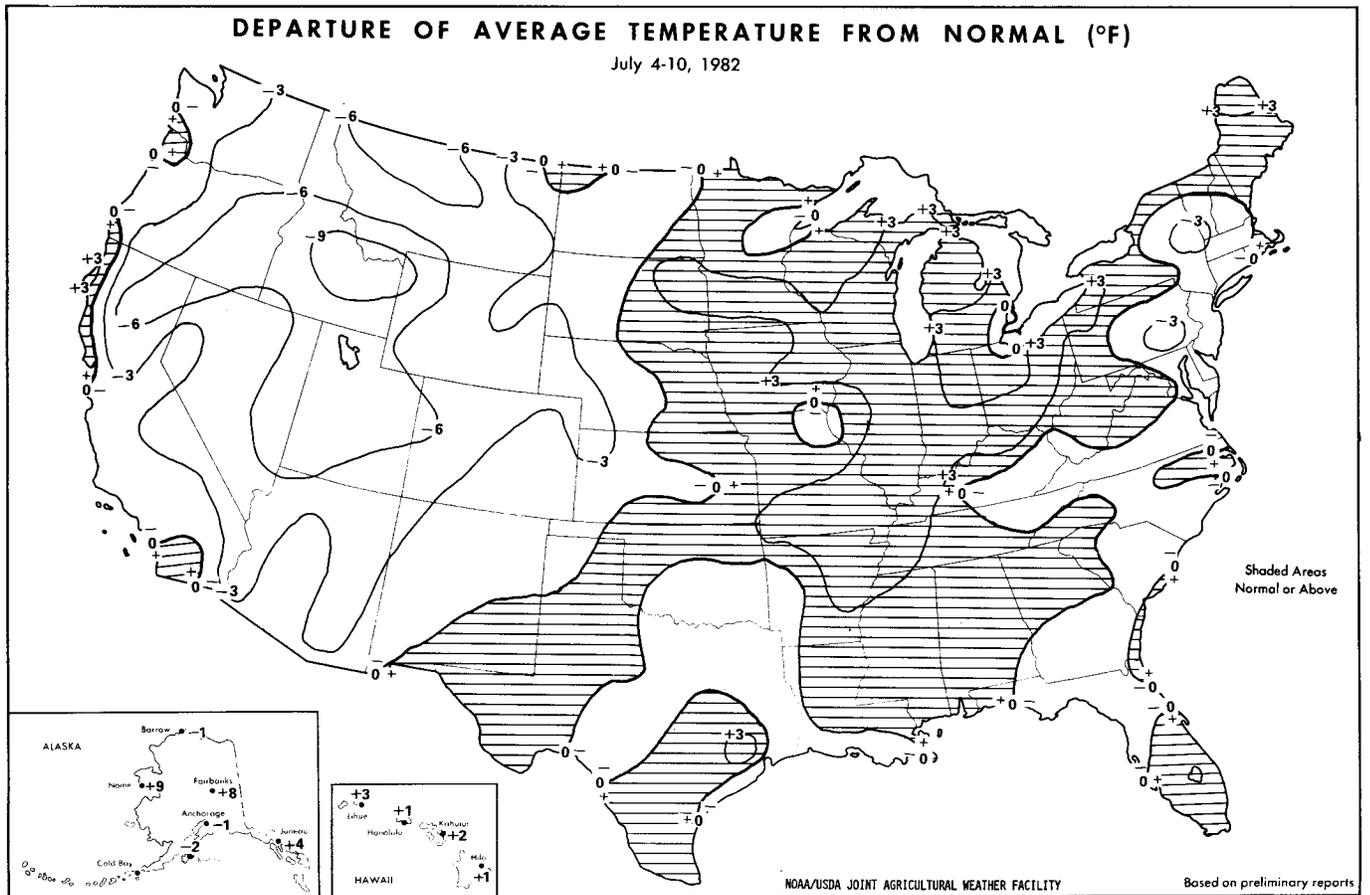
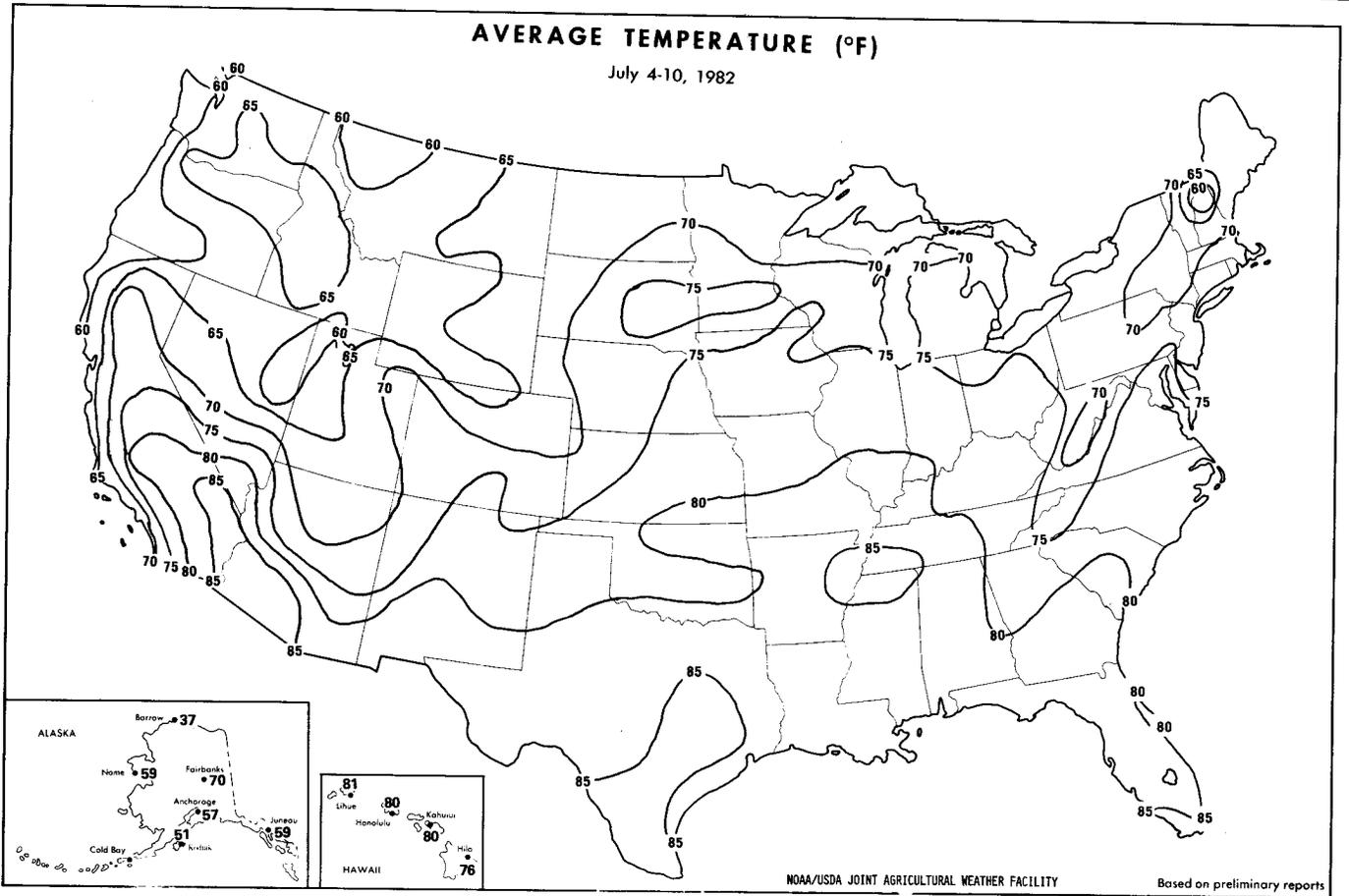
MONDAY...Showers and thunderstorms covered the central and northern Plains and Rockies. Only a few showers fell over the Dakotas, but some heavy downpours concentrated in the area from northeastern Kansas to northwestern Iowa. Widely scattered thunderstorms popped up through the southern Plains, along the eastern gulf coast, and the southeastern coast. Temperatures cooled a little in the northern Plains but climbed into the nineties in the western Great Lakes region.

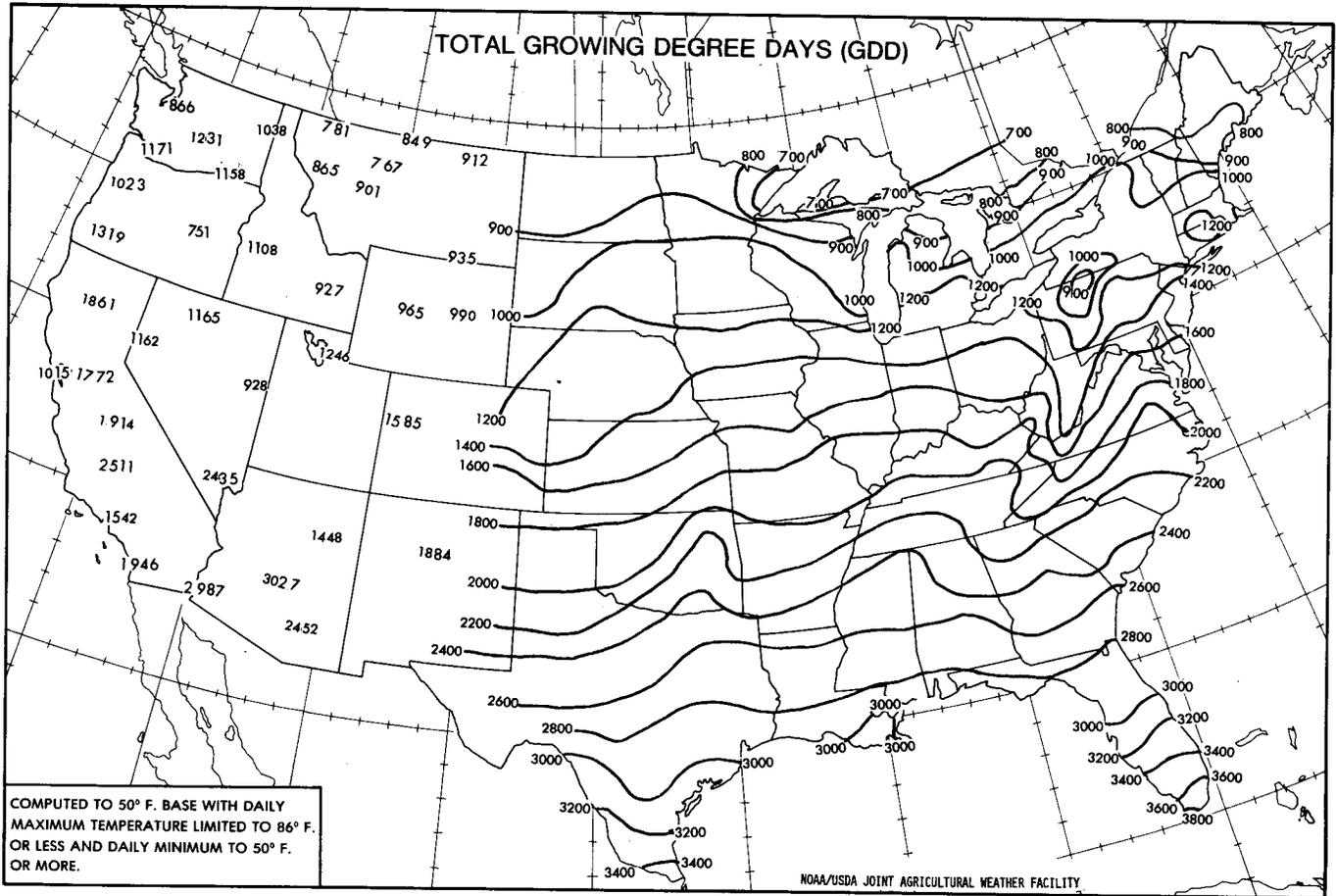
Contents

	Page
National Weather Summary	1
Precipitation & Pan Evaporation	2
Crop Moisture & Crop Moisture Index	3
Average Temperature & Departure	4
Growing Degree Days	5
Weather Data for Selected Cities	6
Cooling Degree Days	9
July Thunderstorm Frequency	10
National Agricultural Summary	11
Crop Progress Tables	12
Crop Production Highlights	12
State Summaries of Weather & Agriculture	13
International Weather & Crop Summary	20
Subscription Information	32









Weather Data for the Week Ending July 10, 1982

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 30	PCT. NORMAL SINCE May 30	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE °F		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	91	71	94	68	81	1	T	-1.2	T	9.9	165	36.2	125	96	52	7	0	0	0
AL MOBILE	91	73	95	70	82	1	1.0	-1.0	.5	12.4	132	37.1	110	92	54	4	0	4	0
AL MONTGOMERY	91	73	96	72	82	1	1.7	-.5	1.7	6.7	110	36.8	138	83	48	5	0	1	0
AK ANCHORAGE	66	49	74	45	57	-1	.1	-.3	.1	1.7	89	3.6	72	75	48	0	0	2	1
AK BARROW	42	33	56	31	37	-1	.2	-.1	.2	.4	80	2.0	125	99	80	0	0	0	0
AK FAIRBANKS	81	58	87	53	70	8	.3	-.1	.2	2.4	109	5.4	117	75	34	0	4	1	0
AK JUNEAU	68	50	75	46	59	4	.3	-.7	.1	2.4	51	20.5	99	76	50	0	0	4	0
AK KODIAK	55	47	58	39	51	-2	1.5	-.7	1.3	10.8	193	33.3	127	98	81	0	0	3	0
AK NOME	68	50	77	42	59	9	.4	0	.3	2.2	138	7.8	144	82	47	0	0	3	0
AZ PHOENIX	101	78	109	74	89	-1	.2	-.1	.2	.2	67	3.5	130	54	18	7	0	2	0
AZ PRESCOTT	87	59	98	52	73	-2	.2	-.4	.2	.2	13	6.6	92	55	18	2	0	0	0
AZ TUCSON	95	69	103	66	82	-4	.5	-.1	.5	.6	67	4.0	108	67	22	5	0	1	0
AZ YUMA	102	76	108	74	89	-3	0	0	0	0	0	1.6	160	48	18	7	0	0	0
AR FORT SMITH	89	72	93	70	80	-1	2.6	1.9	2.6	7.7	145	27.4	115	93	57	4	0	0	0
AR LITTLE ROCK	94	74	97	72	84	3	T	-.7	T	5.8	132	30.6	115	85	51	7	0	1	0
CA BAKERSFIELD	95	69	100	63	82	-1	0	0	0	0	0	+100	4.3	116	49	19	6	0	0
CA EUREKA	66	52	69	48	59	3	T	0	T	.8	114	24.4	110	85	62	0	0	0	0
CA FRESNO	92	62	97	57	77	-3	0	0	0	0	0	300	8.6	137	69	20	5	0	0
CA LOS ANGELES	74	60	78	59	67	-1	0	0	0	0	0	+100	8.6	115	86	59	0	0	0
CA RED BLUFF	88	61	96	55	74	-7	0	0	0	0	0	300	8.6	115	86	59	0	0	0
CA SACRAMENTO	86	54	92	50	70	-4	0	0	0	1.8	360	12.8	99	75	26	2	0	0	0
CA SAN DIEGO	75	65	80	63	70	1	0	0	0	.1	100	18.1	156	98	38	2	0	0	0
CA SAN FRANCISCO	70	54	77	52	62	0	0	0	0	.1	100	9.0	161	81	56	0	0	0	0
CO DENVER	82	56	91	50	69	-3	.1	-.3	.1	3.0	115	7.2	82	67	21	1	0	1	0
CO GRAND JUNCTION	86	57	93	46	72	-6	.2	-.1	.2	.4	80	2.7	69	66	16	2	0	2	0
CO PUEBLO	90	60	97	56	75	-1	0	0	0	.5	125	5.5	90	71	19	4	0	0	0
CT BRIDGEPORT	82	60	90	53	71	-2	0	0	0	.7	0	0	0	0	0	0	0	0	0
CT HARTFORD	86	58	93	50	72	0	0	0	0	11.1	292	28.5	152	83	48	1	0	0	0
DC WASHINGTON	87	70	95	64	79	1	T	-.9	T	13.7	291	30.9	149	83	37	2	0	0	0
FL APALACHICOLA	87	75	91	72	81	0	1.0	-.8	T	6.9	135	22.3	117	82	48	3	0	1	0
FL DAYTONA BEACH	88	70	92	68	79	-2	T	-1.5	T	10.0	114	29.0	137	94	63	2	0	1	0
FL JACKSONVILLE	92	72	98	68	82	1	2.1	-.5	1.7	11.5	128	26.3	109	97	58	5	0	4	1
FL KEY WEST	90	80	91	75	85	1	.8	-.2	.5	10.1	160	22.9	150	82	60	5	0	5	0
FL MIAMI	90	78	94	75	84	2	.9	-.8	.6	14.5	124	35.9	136	87	54	3	0	5	1
FL ORLANDO	91	73	92	69	82	1	.7	-1.3	.5	13.0	123	29.9	126	92	54	6	0	6	0
FL TALLAHASSEE	89	71	95	70	80	-1	3.4	1.3	1.5	11.4	113	32.0	103	100	65	3	0	6	4
FL WEST PALM BEACH	89	77	92	73	83	1	4.7	2.8	3.4	16.6	175	28.1	127	95	61	5	0	4	2
GA ATLANTA	88	70	92	67	79	1	.7	-.9	.6	11.2	104	46.1	173	83	57	4	0	2	1
GA AUGUSTA	92	72	100	70	82	2	.8	-.3	.4	4.6	82	32.1	118	93	48	2	0	6	1
GA MACON	91	71	99	69	81	0	1.3	-.2	.6	4.1	72	27.1	111	94	54	4	0	4	1
GA SAVANNAH	90	72	98	71	81	0	2.0	-.2	.7	13.9	153	29.7	117	93	57	4	0	7	2
HI HILO	82	70	83	68	76	1	4.1	2.2	1.1	13.0	130	94.8	147	81	65	0	0	7	4
HI HONOLULU	88	73	88	72	80	1	.1	-.1	.1	.7	100	20.8	168	77	51	0	0	1	0
HI KAHULUI	86	73	89	73	80	2	.1	0	.1	.5	100	20.9	194	74	56	0	0	1	0
HI LIHUE	86	75	88	73	81	3	1.0	-.6	.6	2.9	132	41.0	191	88	65	0	0	5	1
ID BOISE	77	52	89	46	65	-8	.4	-.3	.4	1.5	115	7.0	96	85	31	0	0	1	0
ID LEWISTON	79	55	90	49	67	-5	.2	0	.2	1.1	52	6.5	89	86	37	1	0	2	0
ID POCATELLO	75	46	84	40	61	-9	.3	-.2	.1	.8	53	7.2	106	92	36	0	0	3	0
IL CHICAGO	86	63	95	57	75	3	2.2	1.3	1.3	5.4	96	18.1	106	96	50	2	0	3	2
IL MOLINE	86	67	92	63	77	3	4.6	3.4	3.6	9.1	142	23.6	133	93	47	2	0	3	2
IL PEORIA	87	68	92	65	78	3	1.2	-.3	.9	7.4	137	24.5	132	91	56	2	0	2	1
IL QUINCY	84	69	87	65	76	-2	.4	-.6	.3	9.7	154	24.7	98	69	0	0	0	2	0
IL ROCKFORD	86	67	91	63	76	4	2.6	1.5	1.8	7.4	123	20.5	112	92	59	1	0	3	2
IL SPRINGFIELD	90	68	93	63	79	3	.2	-.7	.2	4.6	81	20.6	114	93	60	3	0	1	0
IN EVANSVILLE	91	73	94	72	82	5	.6	-.3	.5	5.3	100	27.8	117	91	50	4	0	2	1
IN FORT WAYNE	86	64	91	55	75	2	.4	-.5	.4	6.7	124	24.9	129	91	50	1	0	1	0
IN INDIANAPOLIS	87	69	90	64	78	3	.6	-.4	.5	7.2	122	26.9	126	88	56	2	0	1	0
IN SOUTH BEND	84	65	90	56	75	3	1.6	-.7	1.1	6.3	121	21.6	120	92	53	1	0	2	1
IA DES MOINES	87	68	94	63	78	3	2.5	1.6	1.9	5.3	82	22.8	133	77	47	2	0	3	2
IA SIOUX CITY	87	65	98	59	76	1	2.2	1.4	1.4	4.8	80	15.2	105	88	52	2	0	4	2
IA WATERLOO	85	64	96	59	75	3	1.8	-.7	1.3	6.2	90	19.8	115	86	51	2	0	3	1
KS CONCORDIA	90	69	97	62	79	2	2.9	2.1	1.7	14.9	233	27.9	184	79	41	2	0	3	2
KS DODGE CITY	90	66	96	62	78	0	2.9	2.2	2.4	6.3	143	11.9	111	78	33	5	0	2	1
KS GOODLAND	85	56	95	46	70	-4	1.2	-.6	.5	11.2	295	17.8	200	82	33	2	0	3	0
KS TOPEKA	89	69	96	61	79	2	2.0	-.9	1.8	11.7	152	24.8	133	87	49	3	0	3	1
KS WICHITA	91	69	97	64	80	0	.3	-.7	.3	9.2	148	21.6	142	75	40	5	0	1	0
KY BOWLING GREEN	88	70	91	65	79	0	1.0	-.1	.7	3.7	69	23.9	88	98	63	3	0	3	1
KY LEXINGTON	88	69	91	68	79	3	1.5	-.4	1.2	5.4	89	21.2	85	89	52	2	0	3	1
KY LOUISVILLE	88	70	92	68	79	2	.8	-.1	.5	5.4	95	23.5	95	90	57	3	0	2	1
LA ALEXANDRIA	94	74	95	72	84	1	T	1.1	T	6.3	107	23.8	—	79	42	7	0	0	0
LA BATON ROUGE	92	73	94	71	82	0	2.4	1.0	1.7	4.9	80	26.2	92	89	49	7	0	3	2
LA LAKE CHARLES	90	74	91	73	82	0	.2	-.1	.1	5.2	57	22.1	79	99	61	7	0	2	0
LA NEW ORLEANS	92	73	93	70	83	0	1.9	-.4	1.8	7.5	101	27.5	94	100	61	6	0	2	0

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

+100 = NORMAL & ACTUAL NEAR THE SAME

Weather Data for the Week Ending July 10, 1982

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 30	PCT., NORMAL SINCE May 30	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
ME SHREVEPORT	94	72	95	70	83	0	.1	-.6	.1	1.9	41	16.3	65	97	47	7	0	1	0
ME CARIBOU	81	55	93	39	68	3	T	-.9	T	3.2	64	15.0	94	84	38	1	0	0	0
ME PORTLAND	82	56	92	46	69	1	0	-.6	0	7.5	183	25.1	124	84	39	1	0	0	0
MD BALTIMORE	86	65	94	56	75	-1	.5	-.4	.5	6.6	127	22.5	110	89	50	3	0	2	0
MD SALISBURY	85	64	93	51	75	-2	.6	-.3	.6	5.9	116	22.1	103	97	52	2	0	1	0
MA BOSTON	84	64	95	57	74	1	0	0	0	13.9	323	29.3	136	76	36	2	0	0	0
MA CHATHAM	72	61	78	55	67	-	0	0	0	5.5	-	23.3	-	90	71	0	0	0	0
MI ALPENA	84	56	92	42	70	5	.1	-.5	.1	3.8	100	11.3	88	92	42	1	0	2	0
MI DETROIT	84	60	91	55	72	0	.4	-.3	.4	5.1	111	17.2	105	94	51	1	0	1	0
MI FLINT	84	61	89	53	73	3	.6	-.1	.6	4.1	89	11.5	77	90	49	0	0	1	0
MI GRAND RAPIDS	85	63	91	55	74	3	.8	0	.5	4.3	91	16.3	102	89	50	1	0	2	1
MI HOUGHTON LAKE	81	60	86	52	71	5	1.3	-.5	.9	5.2	111	15.5	115	89	49	0	0	3	1
MI LANSING	82	62	90	53	72	2	.3	-.4	.3	4.4	96	12.4	78	96	57	1	0	2	0
MI MARQUETTE	79	54	86	47	67	3	.8	-.1	.6	2.2	38	15.6	95	96	54	0	0	5	1
MI MUSKEGON	82	62	89	54	72	3	.8	-.3	.5	4.1	114	16.9	113	91	52	0	0	3	1
MI SAULT STE. MARIE	78	50	86	41	64	1	.1	-.5	.1	1.8	41	15.2	109	90	48	0	0	3	0
MN ALEXANDRIA	80	61	93	56	71	1	2.7	2.0	.7	6.2	113	15.6	124	93	56	2	0	4	4
MN DULUTH	72	53	90	49	62	-2	2.7	1.8	1.4	5.2	88	16.0	109	89	59	1	0	5	2
MN INT'L FALLS	77	58	90	51	68	2	1.0	.1	.8	4.1	73	11.6	95	98	53	1	0	3	1
MN MINNEAPOLIS	87	65	100	54	76	5	.7	-.2	.4	2.6	46	13.9	105	83	45	2	0	2	0
MN ROCHESTER	84	62	97	53	73	4	.8	-.1	.5	3.0	47	17.0	116	91	51	2	0	3	1
MS GREENWOOD	92	73	95	71	83	1	.5	-.4	.5	6.7	134	31.2	-	94	59	7	0	1	1
MS JACKSON	93	73	94	71	83	2	1.8	-.9	1.7	8.5	170	30.3	113	97	54	7	0	2	1
MS MERIDIAN	95	71	97	69	83	2	.3	-.9	.2	4.9	86	28.4	101	92	49	7	0	2	0
MO CAPE GIRARDEAU	92	73	98	70	83	4	1.2	.5	.4	8.0	151	31.0	134	95	51	6	0	3	0
MO COLUMBIA	88	70	92	65	79	2	2.3	1.4	1.5	9.2	148	23.4	123	98	63	3	0	3	2
MO KANSAS CITY	88	70	94	63	79	2	.4	-.7	.4	10.0	135	25.7	135	90	54	3	0	3	0
MO SAINT LOUIS	89	72	97	70	81	3	6.5	5.5	3.4	14.7	241	30.4	155	90	53	3	0	3	2
MO SPRINGFIELD	91	70	95	68	81	4	.3	-.6	.2	7.2	113	21.7	103	93	56	5	0	4	0
MT BILLINGS	77	54	86	50	66	-5	.9	-.6	.8	5.7	190	12.7	146	81	38	0	0	2	1
MT GLASGOW	80	53	86	49	66	-3	T	-.3	T	1.2	38	7.0	119	81	32	0	0	1	0
MT GREAT FALLS	73	50	80	44	62	-6	.3	-.1	.3	3.4	89	12.1	126	79	36	0	0	1	0
MT HAVRE	75	51	81	46	63	-6	.2	-.2	.1	1.0	32	8.8	128	81	33	0	0	3	0
MT HELENA	74	51	81	47	63	-4	.1	-.3	T	3.0	97	8.3	120	73	31	0	0	2	0
MT KALISPELL	68	46	77	42	57	-6	.1	-.2	T	4.7	162	12.0	141	97	53	0	0	3	0
MT MILES CITY	80	56	88	51	68	-5	.2	-.3	.1	5.4	135	10.0	119	86	34	0	0	4	0
MT MISSOULA	71	50	80	46	60	-5	.2	0	.2	2.5	100	10.8	150	96	47	0	0	4	0
NE GRAND ISLAND	87	64	95	56	75	0	.4	-.4	.3	5.4	93	20.7	150	90	44	3	0	2	0
NE LINCOLN	89	67	95	59	78	2	2.9	2.1	2.1	9.5	148	21.7	144	93	47	3	0	3	2
NE NORFOLK	86	65	98	58	75	1	1.6	.8	1.2	4.0	63	16.3	116	85	43	2	0	4	1
NE NORTH PLATTE	86	59	99	50	73	-1	1.5	-.7	1.2	4.1	80	12.8	113	89	37	1	0	2	1
NE OMAHA	87	66	97	59	77	2	1.8	-.9	.7	6.3	97	21.6	137	88	51	3	0	4	2
NE SCOTTSBLUFF	81	56	92	51	69	-4	.4	-.1	.2	7.2	200	11.6	129	81	28	1	0	3	0
NE VALENTINE	86	60	104	52	73	0	1.0	.4	.7	3.3	73	12.1	121	80	33	2	0	3	1
NV ELY	75	41	85	37	58	-7	.4	-.2	.2	.4	33	6.1	124	84	29	0	0	3	0
NV LAS VEGAS	97	71	103	67	84	-5	T	-.1	T	0	0	1.8	95	34	13	7	0	0	0
NV RENO	84	49	95	41	66	-2	0	-.1	0	1.0	250	4.2	100	68	21	2	0	0	0
NH WINNEMUCCA	82	49	91	42	65	-4	T	-.1	T	2.3	192	4.6	87	69	18	1	0	2	0
NH CONCORD	84	52	90	41	68	-1	0	-.8	0	8.0	170	22.3	127	84	34	2	0	0	0
NJ ATLANTIC CITY	85	64	93	53	74	0	0	-.9	0	4.2	86	18.4	84	93	53	2	0	0	0
NM ALBUQUERQUE	92	63	96	58	77	-1	T	-.3	T	.1	9	2.0	63	43	13	5	0	1	0
NM CLOVIS	89	65	92	62	77	0	.6	0	.6	3.4	94	6.3	-	81	33	4	0	1	1
NM ROSWELL	93	67	96	62	80	1	.1	-.4	T	.9	41	2.5	46	79	28	6	0	2	0
NY ALBANY	83	55	88	44	69	-3	T	-.7	T	6.6	157	20.0	126	91	43	0	0	0	0
NY BINGHAMTON	81	58	86	47	69	1	T	-.8	T	8.1	165	21.6	118	82	42	0	0	0	0
NY BUFFALO	84	61	91	53	73	3	0	-.6	0	3.4	106	20.0	120	90	42	2	0	0	0
NY NEW YORK	83	65	93	57	74	-2	T	-.8	T	4.7	109	20.3	102	79	43	1	0	0	0
NY ROCHESTER	85	60	95	49	72	1	.4	-.3	.4	4.4	119	14.7	94	86	43	1	0	1	0
NY SYRACUSE	84	59	91	46	71	0	1.2	.6	1.2	6.2	148	17.9	100	92	46	1	0	1	1
NC ASHEVILLE	85	64	89	59	74	1	.1	-.1	.1	4.5	78	25.8	112	98	57	0	0	2	0
NC CHARLOTTE	87	69	91	68	78	0	.6	-.4	.6	5.4	126	24.5	113	91	54	1	0	1	1
NC GREENSBORO	85	67	90	64	76	-1	.2	-.8	.2	9.4	168	28.5	136	98	66	1	0	2	0
NC HATTERAS	84	72	87	70	78	0	2.1	.9	1.2	7.6	110	33.3	138	100	76	0	0	4	2
NC NEW BERN	87	70	91	68	78	-1	.4	-.1	.3	6.1	73	24.0	91	90	58	2	0	2	0
NC RALEIGH	88	69	94	64	79	2	.6	-.5	.4	9.7	176	28.0	134	91	55	3	0	3	0
NC WILMINGTON	88	70	92	64	79	-1	1.0	.8	1.0	8.6	99	28.6	113	88	53	3	0	2	1
ND BISMARCK	80	58	88	52	69	-1	1.0	.4	.7	3.0	67	9.7	105	94	47	0	0	3	1
ND FARGO	81	60	94	56	71	1	1.5	.7	1.1	3.4	74	8.6	84	88	49	2	0	2	1
ND GRAND FORKS	77	58	84	56	68	0	.9	-.2	.7	4.3	96	10.2	104	95	58	0	0	3	1
ND WILLISTON	80	58	88	52	69	0	.4	-.1	.3	3.3	79	9.2	106	78	41	0	0	3	0
OH AKRON-CANTON	84	65	89	61	75	4	.7	-.3	.6	6.1	115	20.7	108	89	55	0	0	2	1
OH CINCINNATI	88	71	91	67	79	4	.3	-.7	.1	5.1	93	24.3	108	81	46	3	0	3	0
OH CLEVELAND	85	64	91	60	75	4	0	-.8	0	6.1	133	19.4	106	90	54	1	0	0	0
OH COLUMBUS	86	66	90	62	76	3	2.5	1.5	1.9	6.2	109	23.0	109	97	58	2	0	3	2

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

Weather Data for the Week Ending July 10, 1982

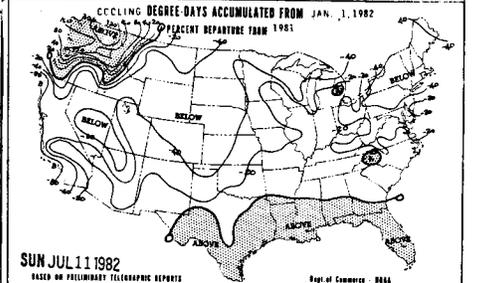
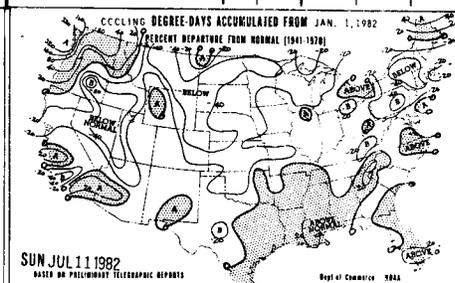
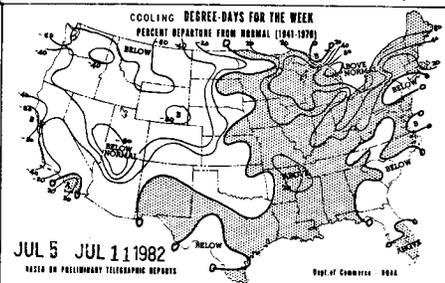
STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE May 30	PCT. NORMAL SINCE May 30	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	87	67	92	62	77	3	.8	0	.6	5.3	98	25.2	127	92	57	2	0	4	1
TOLEDO	85	60	90	55	73	1	.5	-.2	.5	3.5	73	15.9	98	97	52	1	0	1	1
YOUNGSTOWN	83	62	87	55	72	2	0	.9	0	5.9	118	20.1	101	99	64	0	0	0	0
OK OKLAHOMA CITY	90	69	94	66	79	-1	1.2	.6	.8	6.2	113	25.7	148	95	53	5	0	3	1
TULSA	92	74	97	70	83	2	1.0	.2	1.0	5.5	89	20.6	104	83	44	6	0	3	1
OR ASTORIA	68	50	73	44	59	0	.1	-.2	.1	1.4	48	40.3	124	91	53	0	0	2	1
BURNS	77	47	77	40	62	-5	.1	0	.1	1.2	120	6.2	95	56	35	0	0	2	0
MEDFORD	82	52	91	49	67	-4	T	-.1	T	1.0	91	9.2	88	84	30	1	0	0	0
PENDLETON	79	55	87	49	67	-6	.1	-.1	.1	.7	58	5.4	79	71	27	0	0	0	0
PORTLAND	77	55	85	52	66	0	T	-.1	T	1.9	106	20.6	110	85	36	0	0	2	0
SALEM	78	50	87	46	64	-2	T	-.1	T	1.6	100	21.1	100	90	35	0	0	2	0
PA ALLENTOWN	83	60	89	53	72	-2	0	0	0	8.5	163	24.7	117	94	48	0	0	0	0
ERIE	82	62	92	55	72	4	.7	-.2	.7	7.1	142	20.5	114	82	53	1	0	1	1
HARRISBURG	83	64	86	55	73	-2	.1	-.8	.1	8.1	108	24.3	111	97	53	0	0	1	0
PHILADELPHIA	85	65	91	56	75	-2	0	-.9	0	6.8	131	27.0	139	93	48	2	0	0	0
PITTSBURGH	83	63	87	60	73	1	.3	-.6	.2	4.4	85	19.7	101	97	59	0	0	2	0
SCRANTON	82	58	87	50	70	-2	0	-.9	0	7.4	145	21.8	128	88	49	0	0	0	0
RI PROVIDENCE	83	60	90	51	72	0	.1	-.5	.1	11.6	314	29.7	146	84	37	1	0	1	0
SC CHARLESTON	88	72	96	71	80	0	3.1	1.2	1.6	12.9	136	29.5	116	92	61	2	0	7	2
COLUMBIA	90	69	97	68	80	-1	1.2	0	.6	6.4	107	24.7	105	92	51	4	0	4	1
FLORENCE	88	70	92	67	79	-1	.2	-1.2	.2	6.7	97	24.1	109	98	55	2	0	1	0
SD GREENVILLE	86	69	92	67	78	0	4.5	3.5	2.7	8.9	159	32.6	127	90	55	1	0	3	2
ABERDEEN	85	65	98	59	75	4	-.1	-.1	-.1	-.1	-.1	-.1	-.1	81	41	3	0	0	0
HURON	86	64	100	57	75	3	.2	-.4	.2	2.4	50	10.5	95	87	48	2	0	1	0
RAPID CITY	80	56	88	49	68	-3	.2	-.4	.2	3.3	70	12.6	114	84	44	0	0	4	0
STOIX FALLS	85	63	102	59	74	2	3.1	2.4	2.3	5.4	96	13.0	95	87	49	2	0	3	2
TN CHATTANOOGA	91	70	96	68	80	2	.7	-.5	.7	3.6	53	28.5	100	92	47	5	0	1	1
KNOXVILLE	86	68	88	66	77	-1	2.0	.9	1.9	6.2	111	32.3	127	97	60	0	0	2	1
MEMPHIS	94	78	96	76	86	5	2.0	1.1	1.9	9.2	184	36.2	130	83	54	7	0	2	1
NASHVILLE	91	71	93	69	81	2	.2	-.7	.2	3.4	69	26.3	103	96	55	5	0	3	0
TX ABILENE	93	74	97	72	84	1	T	-.6	T	3.9	103	13.8	110	77	42	6	0	0	0
AMARILLO	91	66	95	61	78	0	.4	-.3	.3	5.0	114	8.5	89	87	32	5	0	2	0
AUSTIN	95	75	96	73	85	1	0	-.5	0	3.0	75	15.9	93	87	40	7	0	0	0
BEADMONT	91	74	93	73	83	0	.1	-1.2	.1	9.5	134	33.2	126	93	61	7	0	1	0
BROWNSVILLE	96	78	96	75	87	3	0	-.3	0	.2	6	14.4	143	85	45	7	0	0	0
CORPUS CHRISTI	93	75	93	71	84	0	0	-.4	0	.8	24	14.6	115	97	54	7	0	0	0
DEL RIO	93	74	98	71	83	-3	.6	-.3	.6	3.1	124	7.9	91	82	44	6	0	1	1
EL PASO	97	70	103	64	84	1	.1	-.3	.1	.3	23	1.4	47	63	18	6	0	1	0
FORT WORTH	92	73	95	68	82	-2	2.2	1.7	2.2	6.5	171	28.7	159	86	46	6	0	1	0
GALVESTON	87	79	89	75	83	0	0	-1.1	0	4.5	76	16.7	89	85	67	0	0	0	0
HOUSTON	97	74	98	73	86	3	T	-.9	T	1.1	18	15.2	65	87	40	7	0	1	0
LUBBOCK	91	68	95	67	80	1	.3	-.3	.3	5.5	141	13.5	139	85	38	5	0	2	0
MIDLAND	96	70	98	69	83	1	.6	-.2	.3	2.2	100	7.0	108	87	32	7	0	3	0
SAN ANGELO	92	72	96	68	82	-2	.1	-.2	T	6.4	246	14.4	158	84	42	6	0	2	0
SAN ANTONIO	96	74	97	71	85	1	0	-.4	0	1.4	39	11.7	87	88	36	7	0	0	0
VICTORIA	95	75	96	72	85	1	T	-.6	T	.1	2	16.1	99	89	45	7	0	0	0
WACO	94	76	96	74	85	0	T	-.4	T	4.0	114	19.1	109	85	45	7	0	0	0
WICHITA FALLS	94	69	97	65	82	-3	.1	-.5	T	8.0	174	28.9	193	94	44	6	0	2	0
UT BLANDING	83	51	90	43	67	-5	0	-.2	0	.1	13	4.7	94	54	19	1	0	0	0
CEDAR CITY	82	49	91	40	66	-7	.1	-.1	.1	.4	57	7.1	154	61	21	1	0	1	0
SALT LAKE CITY	80	55	89	50	68	-7	1.0	-.8	.4	1.7	106	9.2	106	78	28	0	0	4	0
VT BURLINGTON	82	57	87	43	70	0	T	-.8	T	5.3	196	16.3	106	86	38	0	0	0	0
VA NORFOLK	83	69	93	66	76	-2	1.3	-.1	1.1	6.9	119	23.6	114	91	55	2	0	3	1
RICHMOND	87	68	94	60	78	-1	1.4	-.2	1.3	7.4	128	23.0	113	94	56	3	0	3	1
ROANOKE	85	65	88	60	75	0	1.8	1.0	.9	7.3	149	24.8	128	96	59	0	0	3	2
WA COLVILLE	73	53	83	50	63	-4	.2	0	.1	2.7	135	11.0	125	85	60	0	0	3	0
QUILLAYUTE	66	47	70	42	57	-2	.2	-.4	.2	2.9	64	63.2	122	96	54	0	0	1	0
SEATTLE-TACOMA	73	53	79	51	63	-1	.2	0	.2	1.4	74	20.8	110	78	37	0	0	1	0
SPOKANE	75	52	84	48	64	-5	.2	-.1	.1	1.7	106	8.9	96	90	38	0	0	4	0
YAKIMA	79	51	87	45	65	-5	T	-.1	T	1.8	200	4.9	111	85	30	0	0	0	0
WV BECKLEY	79	61	81	56	70	0	2.0	1.0	1.2	6.9	119	23.1	100	97	67	0	0	4	1
CHARLESTON	86	67	90	64	76	1	.4	-.7	.4	8.6	162	26.6	124	97	63	1	0	2	0
HUNTINGTON	85	66	87	61	75	0	1.6	-.6	.9	7.5	147	25.3	118	99	68	0	0	3	2
PARKERSBURG	86	67	88	65	76	2	1.3	-.3	1.1	6.6	105	21.4	90	97	50	0	0	3	1
WI GREEN BAY	83	61	91	54	72	3	1.2	-.5	1.1	3.9	83	12.7	95	96	58	1	0	3	1
LA CROSSE	87	64	96	55	76	3	.4	-.5	.3	1.7	30	10.3	69	98	52	2	0	3	0
MADISON	83	61	90	51	72	3	.7	-.2	.4	4.2	72	15.5	103	92	55	1	0	2	0
MILWAUKEE	81	63	90	57	72	3	1.4	-.5	.7	4.7	92	18.3	122	93	57	1	0	3	2
WAUSAU	81	61	90	52	71	3	1.6	-.7	1.2	8.9	146	19.6	126	92	55	1	0	3	1
WY CASPER	82	51	94	44	66	-3	.1	-.1	.1	4.3	215	9.0	130	76	24	1	0	3	0
CHEYENNE	76	51	83	46	64	-4	.7	-.3	.6	5.1	170	9.8	117	79	33	0	0	4	1
LANDER	79	51	86	44	65	-4	T	-.2	T	1.4	61	4.9	54	60	22	0	0	1	0
SHERIDAN	78	49	88	45	64	-5	.2	-.1	.2	4.7	127	9.4	93	81	35	0	0	2	0
PR SAN JUAN	88	76	90	75	82	1	.4	-1.0	.3	5.9	74	27.4	110	87	59	1	0	4	0

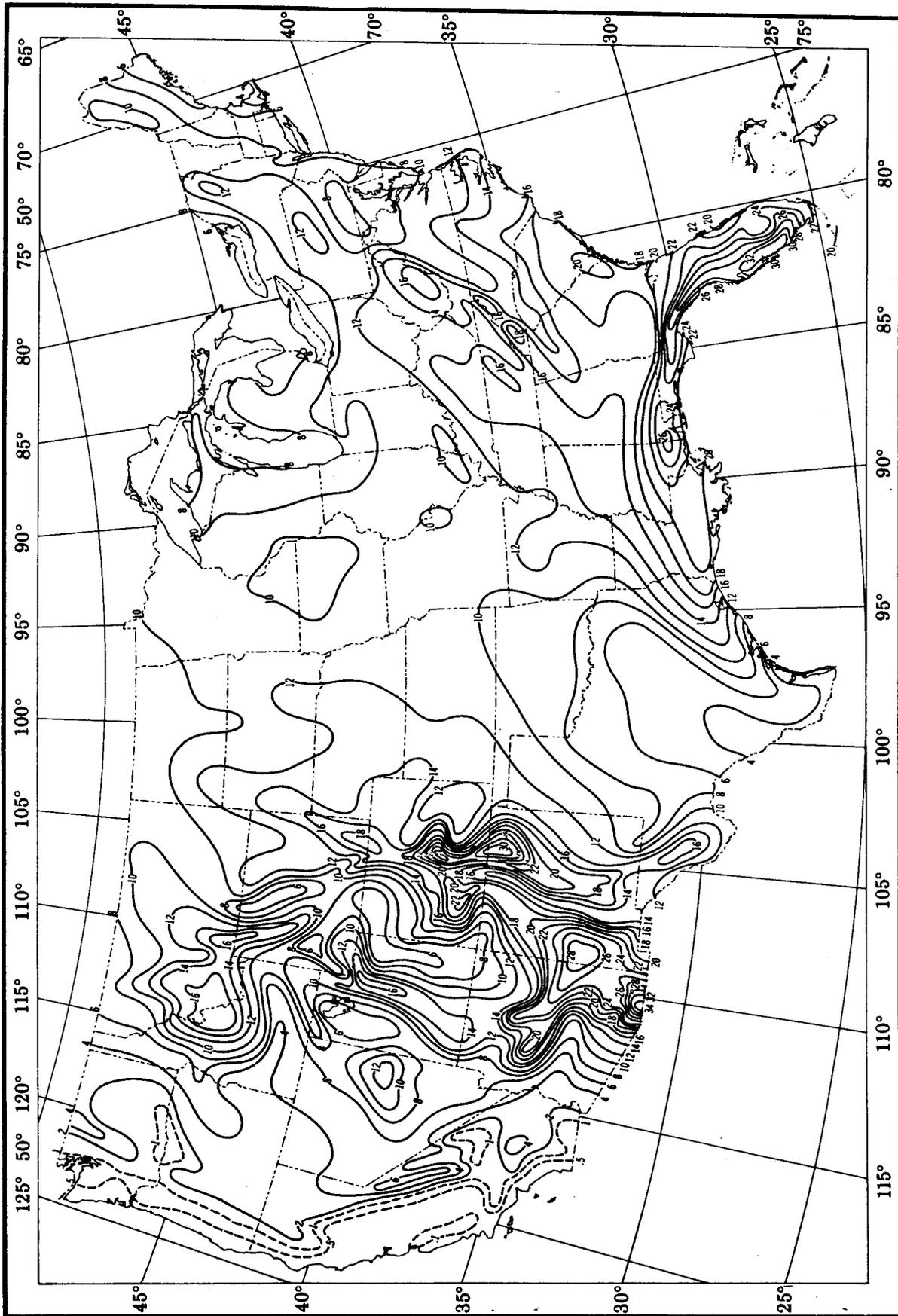
BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

COOLING DEGREE DAYS (BASE 65°) FOR WEEK ENDING JUL. 11, 1982.

BASED ON 1941-70 NORMALS. + ACCUMULATION FROM JAN. 1, 1982

Table with columns for STATES AND STATIONS, WEEKLY DEPARTURE, SEASONAL ACCUMULATION, and WEEKLY DEPARTURE/SEASONAL ACCUMULATION. Rows list various cities across the US, including ALA. BIRMINGHAM, ARIZ. FLAGSTAFF, CALIF. BAKERSFIELD, etc.





MEAN NUMBER OF THUNDERSTORMS - JULY.

National Agricultural Summary

July 5-11

HIGHLIGHTS: Mostly open weather, until late in the week, finally permitted rapid progress to be made with the late 1982 winter wheat harvest. Even though considerable progress was made during the week, this year's harvest was still lagging. Warm weather in the eastern Corn Belt promoted good growth of crops. Farmers had 4 to 6 days suitable for fieldwork in all regions of the Nation. Soil moisture supplies were still adequate to surplus in parts of the Corn Belt. However, drier, hot weather across the South sapped soil moisture, and many short to adequate ratings were recorded. Corn rated good to excellent in parts of the Southeast and fair to mostly good in other regions; 14% of the acreage was silking. Soybeans were 98% planted, with most remaining acreage to be double-cropped. Sorghum planting reached 94% completion; harvest gained momentum in Texas. Cotton was rated in fair to mostly good condition; 54% was squaring and 19% setting bolls. Tobacco harvests became more widespread. Rice continued in fair to good condition; the Texas crop began turning color. Summer vegetable harvests picked up in northern areas. Pastures and ranges were in good condition.

SMALL GRAINS: Winter wheat producers took advantage of mostly open weather and combined one-quarter of the acreage during the week. Harvesting in the 15 major producing States advanced to 52% completion, about 13 points behind last year and the average. Growers in Kansas harvested 55% of their acreage during the week; Missouri, 31%; Illinois, 30%; Oklahoma, 25%; Texas, 22%; and Indiana, 20%. Even though rapid progress was made, harvesting was still behind schedule in most areas; up to 40 percentage points behind in Nebraska. Harvesting neared completion on the Low Plains of Texas while scattered showers interrupted combining in other areas of the State.

Spring wheat was 57% headed, lagging the average progress of 73%. Progress ranged from 30% in Montana to 91% in South Dakota. Development was slow in all five major States due to late planting and a cool spring.

CORN: Corn was in good to excellent condition in parts of the Southeast and fair to mostly good in other regions. In the 17 major producing States, 14% of the acreage was silking, slightly behind average due to late plantings and a cool spring. Across the South, most fields were in the dough stage and some were in the dent stage. Corn in Georgia was 46% dented. Warmer weather during the week should hasten development of the crop.

SOYBEANS: Soybean planting in the 18 major producing States was 98% completed, slightly later than normal. Most of the remaining acreage to be planted was in the Southeast and will be seeded to double-cropped soybeans as small grain harvests finish up. However, wet conditions in Kansas slowed planting this spring, and only 85% of the intended acreage has been planted. Plants were in fair to mostly good condition. Early-planted fields were blooming. In Indiana, 30% of the acreage showed blooms.

SORGHUM: Sorghum planting in the 7 major producing States was 94% completed. Progress ranged from 85% in Kansas and Oklahoma where wet weather delayed planting to 100% in Nebraska and Texas. Harvesting gained momentum in Texas and was underway in south-central areas of the State. Fields were maturing rapidly in the Blacklands; harvest in this area should begin soon. The harvest in Texas was 12% finished, 4 points behind average.

COTTON: In the 14 major producing States, 54% of the cotton acreage was squaring and 19% was setting bolls. The crop was in fair to mostly good condition, except in Texas where considerable acreage was in poor condition due to storm damage. Stands matured rapidly in the Texas Lower Valley.

OTHER CROPS: The Texas peanut crop was 97% planted. Good crop progress was noted in the Cross Timbers area of the State as warm temperatures prevailed and plants had adequate moisture. In the Southeast, crop conditions were fair to good. Much of the acreage had bloomed and was pegging.

Tobacco harvests gained momentum. The Georgia crop was 39% harvested, and in South Carolina harvesting reached 20% completed. The flue-cured crop in North Carolina was 10% harvested while harvest was just getting underway in Virginia.

Rice condition was fair to good. In Texas, 91% of the acreage had headed, and 10% was turning color. Some early fields were harvested, however, the major harvest was still a couple of weeks away.

FRUITS AND NUTS: The peach harvest became more active in New Jersey and was 72% completed in Georgia. The sweet cherry harvest in Michigan and New York gained momentum. California growers harvested apricots, avocados, figs, grapes, grapefruit, Valencia oranges, nectarines, Freestone peaches, and plums. Texas citrus development was good as maintenance operations on groves continued. Arizona citrus groves were in good condition. Citrus groves in Florida were in very good to excellent condition. Very little irrigation was required due to adequate soil moisture and afternoon showers in most areas.

VEGETABLES: Summer vegetable harvests became more widespread in northern areas as more varieties began moving to market. California producers continued to harvest a wide variety of crops. Harvests began or increased in the San Joaquin Valley. In Texas, harvesting was active for many crops, although in some areas, land preparation was underway for planting fall vegetables. Florida's spring vegetable harvest was virtually finished. Land preparations for summer and fall plantings were underway.

PASTURES AND LIVESTOCK: Pastures and ranges were in fair to mostly good condition, although good to excellent conditions were reported in a few scattered areas. Conditions continued to improve in Texas due to good moisture supplies, although some native pastures in south-central areas and on Edwards Plateau began to show signs of moisture stress. Livestock remained in mostly good condition.

CROP PROGRESS
FOR WEEK ENDING JULY 11

	COTTON % SQUARING		
	1982	1981	AVG.
ALA	94	84	72
ARIZ	95	97	96
ARK	96	96	97
CALIF	50	60	NA
GA	96	93	92
LA	93	87	85
MISS	98	97	91
MO	96	77	56
N MEX	70	85	NA
N C	92	77	NA
OKLA	5	20	20
S C	99	100	92
TENN	81	84	74
TEX	34	66	NA
14 STATES	54	72	NA
EXCL. STATES WITH NA	83	83	78

	COTTON % SETTING BOLLS		
	1982	1981	AVG.
ALA	18	35	24
ARIZ	60	86	72
ARK	42	27	36
CALIF	15	35	NA
GA	63	76	73
LA	20	50	31
MISS	32	34	24
MO	30	6	25
N MEX	0	0	1
N C	32	33	NA
OKLA	0	0	0
S C	67	76	57
TENN	16	4	14
TEX	12	27	NA
14 STATES	19	31	NA
EXCL. STATES WITH NA	30	36	30

THESE 14 STATES PRODUCED 99% OF THE 1981 COTTON CROP.
NA - NOT AVAILABLE

	SOYBEANS % PLANTED		
	1982	1981	AVG.
ALA	99	100	100
ARK	97	96	97
GA	95	98	96
ILL	100	100	100
IND	100	98	100
IOWA	100	100	100
KANS	85	90	NA
KY	99	98	98
LA	98	98	100
MICH	100	100	100
MINN	99	99	99
MISS	98	98	99
MO	93	79	98
NEBR	100	100	100
N C	92	98	99
OHIO	100	100	100
S C	95	97	98
TENN	100	100	95
18 STATES	98	97	NA
EXCL. STATES WITH NA	98	97	99

THESE 18 STATES PRODUCED 95% OF THE 1981 SOYBEAN CROP.
NA - NOT AVAILABLE

	SORGHUM % PLANTED		
	1982	1981	AVG.
COLO	96	93	97
KANS	85	95	NA
MO	95	80	100
NEBR	100	100	100
OKLA	85	100	100
S DAK	97	100	100
TEX	100	100	100
7 STATES	94	97	NA
EXCL. STATES WITH NA	98	98	100

THESE 7 STATES PRODUCED 92% OF THE 1981 SORGHUM CROP.
NA - NOT AVAILABLE

	WINTER WHEAT % HARVESTED		
	1982	1981	AVG.
CALIF	75	88	NA
COLO	4	7	16
IDAHO	0	0	0
ILL	75	84	81
IND	40	60	55
KANS	70	90	85
MO	60	54	78
MONT	0	0	0
NEBR	10	65	50
OHIO	15	40	30
OKLA	90	99	95
OREG	0	1	NA
S DAK	0	24	13
TEX	88	96	96
WASH	0	0	1
15 STATES	52	65	NA
EXCL. STATES WITH NA	53	66	64

THESE 15 STATES PRODUCED 88% OF THE 1981 WINTER WHEAT CROP.
NA - NOT AVAILABLE

	CORN % SILKING		
	1982	1981	AVG.
COLO	0	0	0
GA	98	97	97
ILL	32	18	28
IND	20	0	10
IOWA	0	5	14
KANS	10	15	NA
KY	37	33	34
MICH	0	0	0
MINN	0	1	11
MO	20	24	28
NEBR	0	6	10
N C	85	80	NA
OHIO	15	0	5
PA	0	0	0
S DAK	0	1	2
VA	49	45	NA
WIS	0	0	NA
17 STATES	14	11	NA
EXCL. STATES WITH NA	12	9	16

THESE 17 STATES PRODUCED 93% OF THE 1981 CORN CROP.
NA - NOT AVAILABLE

	SPRING WHEAT % HEADED		
	1982	1981	AVG.
IDAHO	80	84	84
MINN	68	97	84
MONT	30	55	55
N D	48	79	67
S DAK	91	99	96
5 STATES	57	82	73

THESE 5 STATES PRODUCED 92% OF THE 1981 SPRING WHEAT CROP.

JULY CROP PRODUCTION HIGHLIGHTS

WINTER WHEAT production is forecast at a record high 2.12 billion bushels (57.8 million metric tons), up 1 percent from the 1981 crop but fractionally below a month earlier. The 90 percent confidence interval for this July production forecast is 2.00 to 2.25 billion bushels.

BARLEY production is forecast at a record high 479 million bushels (10.4 million metric tons), fractionally above the previous record high set last year.

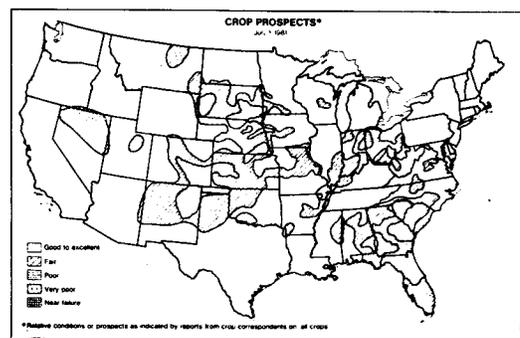
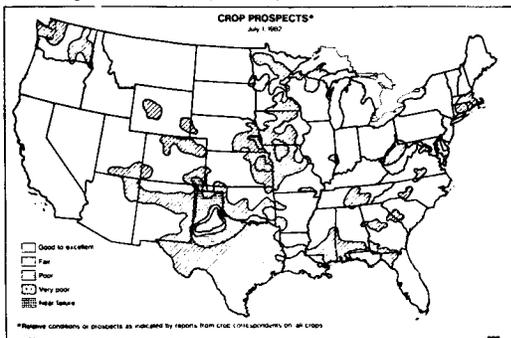
OATS production is forecast at 580 million bushels (8.42 million metric tons), 14 percent above last year and up 27 percent from 1980.

RYE production is forecast at 20.1 million bushels (511 thousand metric tons), 8 percent more than was produced in 1981.

APPLE production is forecast at 8.56 billion pounds (3.88 million metric tons), 11 percent above last year's crop but 3 percent below 1980.

PEACH production is estimated at 2.20 billion pounds (998 thousand metric tons), up 4 percent from June 1 but 21 percent below last year.

PEAR production is expected to total 739 thousand tons (671 thousand metric tons), 17 percent less than last year and 18 percent below 1980.

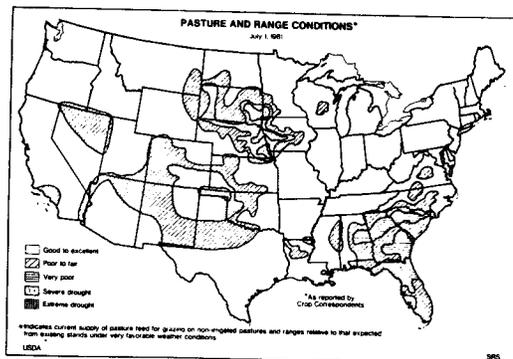
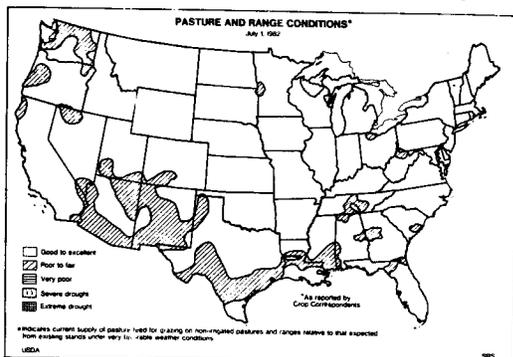


ORANGE production is forecast at 179 million boxes (6.98 million metric tons), down 1 percent from the June 1 forecast and 27 percent less than last season.

POTATO acreage for harvest for all seasonal groups in 1982 is estimated at 1.29 million acres (520 thousand hectares), a gain of 4 percent from last year and 11 percent above 1980. Fall potato acreage for harvest is forecast at 1.10 million acres (445 thousand hectares), up 5 percent from last year.

PASTURE AND RANGE FEED: The July 1 pasture and range feed condition for the 48 contiguous States

was 90 percent, 6 points above last year and 9 points above the 1971-80 average for the date. During the month of June, conditions deteriorated in 10 States and improved in 36 States, while 2 States remained unchanged. Cool, wet weather very early in the month across the Pacific Northwest, slowed grass growth and left some areas showing poor to fair conditions. In the Southwest high temperatures and windy conditions late in the month caused deterioration of ranges; poor to fair conditions were reported in most areas. An abundance of early summer rainfall over the rest of the Nation resulted in mostly good to excellent pasture and range conditions.



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: Temperatures averaged near normal. Rainfall varied up to near 3.00 in.

Soil moisture short to adequate. Fieldwork: 5.5 days. Corn silked 92%, 92% 1981, 75% average. Sorghum and soybeans planted and wheat harvest virtually complete. Cotton: Squaring 94%, 84% 1981, 72% average; setting bolls 18%, 35% 1981, 24% average. Peanuts pegging 50%, 62% 1981, 51% average. Conditions: Corn, cotton, peanuts, livestock, pastures, and sorghum mostly good. Activities: Planting sorghum and soybeans; cultivating field crops; controlling pests on fruit, vegetables, and crops; harvesting hay, peaches, summer potatoes and vegetables.

ALASKA: Warm weather prevailed over the region until midweek. Intense thunderstorm activity set in over the Tanana Valley toward the weekend with a couple funnel clouds reported near Fairbanks on 10th. Meanwhile the warm weather in the Matanuska Valley was replaced by cooler showery weather. Rainfall amounts totaled less than 0.33 in.

Much needed hot weather and sunshine hastened crop maturity over the Railbelt before cooler temperatures and rain set in by week's end. Growers had 3 to 7 days available for making hay. First crop hay cutting reached 75% complete. Grain fields made good to excellent growth and in fair to good condition. Average barley height ranged 5 to 22 in. in Tanana Valley and 12 to 26 in. in Matanuska Valley. Large percentage of barley reached boot stage and development much behind last years 75% headed. Potatoes made excellent growth. Average height ranged 4 to 12 in. Soil moisture getting short in several areas. Rain over weekend replenished supplies. Along with thunderstorms came cooler temperatures.

ARIZONA: Showers, thunderstorms over State except extreme western, extreme northern sections. Precipitation amounts mostly 0.10 to 0.50 in. Cloudy

skies, cool temperatures until weekend when sunny skies returned with dryer, warmer air. Average temperatures from 1 to 4° below normal.

Squaring in progress in 95% of cotton fields, behind last year's 99%. Boll setting 60% behind last year's 86%. Both stages of crop development behind averages. Harvesting of oats, wheat 60% complete in southeastern area. Most safflower mature, harvest began Maricopa County. Sorghum made satisfactory progress. Corn for grain beginning to tassel. Sugarbeet harvest approaching completion. Cutting, baling of alfalfa hay, seasonal progress. Dry onion bagging, carrot digging finished for season. Green onions making seasonal progress. Cantaloups, watermelons, honeydew melons past peak harvest. Harvesting of grapes should be completed July 19. Grapefruit harvest will be complete end of July. Citrus groves, good condition. Ranges mostly poor to fair condition. Southwestern desert areas poor. Livestock fair to good shape. Water supplies short to adequate.

ARKANSAS: Seasonal temperatures and scattered showers. Highest temperature 99°, lowest 64°. All departures from normal ranged from +3 to -2°. Most rainfall 2.63 in., least zero.

Six days available for fieldwork. Soil moisture adequate, except short southeast. Crop growth moderate. Crops in good condition. Soybeans virtually planted, same as 1981 and average; emerged 91%, 93% 1981, 94% average. Cotton virtually all squaring, same as 1981 and average. Bolls setting 42%, 27% 1981, 36% average. Rice in joint elongation stage. Farmers checking fields for sheath blight. Wheat harvest nearly finished, 100% 1981 and average. Haymaking improved. Pastures and livestock good condition.

CALIFORNIA: Showers from the previous week's storminess lingered into the first part of this week. Isolated showers were reported from the Sierra and the northern mountain areas. Temper-

atures were again below normal by several degrees. The Sacramento Valley with greatest departure Statewide, was followed by the San Joaquin Valley, and the southeast interior.

Small grain harvest continues. Winter wheat 75% harvested, 88% last year. Rice doing well, maturity slower due to cooler temperatures. Weed control remains active. Cotton 50% squared, 60% 1981. Many blooms visible, setting bolls 15%, 35% 1981. Verticillium wilt in San Joaquin Valley cotton. Irrigation, cultivation active. Alfalfa haying active. Dry beans blooming, setting pods. Sugarbeets growing well. Field corn, milo showing good growth. Tilton apricot harvest continues. Hass avocados dominate markets. Mission (Black) fig harvest continues. Seedless grapes harvest active, also spraying and dusting. Other area grapefruit harvest active, good condition. Valencia oranges harvest active, good quality. Nectarines, Freestone peaches, plums moving, good quality. Almonds maturing normally, spraying for Navel orangeworm, mites San Joaquin Valley. Artichokes seasonally light. Green bean harvest active. Broccoli volume heavy. Cantaloup, honeydew harvests active Palo Verde Valley, starting San Joaquin Valley. Carrot harvest moderate. Celery harvest increasing Central Coast, decreasing South Coast. Lettuce harvest moderate Central Coast. Spring potato harvest decreasing Kern District. Market tomato harvest active South Coast, increasing San Joaquin Valley. Processing tomato harvest decreasing Desert, increasing San Joaquin Valley. Watermelon harvest decreasing Desert, increasing San Joaquin Valley. Ranges generally good condition. Livestock in good condition. Sheep shearing nearly complete north coast district.

COLORADO: First of week no precipitation; mid-week moisture spread into the State from southwest bringing scattered showers. Late in week thunderstorms, hail and tornado warnings scattered over eastern plains. High temperatures 70's in mountains, 80's and 90's lower elevations. Lows in the 50's and 60's lower elevations.

Prospects for most crops continue to improve with recent moisture and warm weather. Spring grains progressing normally. Barley, 70% headed, 34% turning color, and 6% ripe. Last year, 75% headed, 43% turning color, and 6% ripe. Sugarbeets, 98% thinned. Dry beans, 98% emerged, 94% last year, and 2% flowered. Corn progressing well, average height 16 in. versus 26 in. in 1981 and 31 in. average. Sorghum, 87% emerged. Alfalfa hay harvest slowed by rains during recent weeks. Winter wheat in fair to good condition, 91% turning color, 33% ripe, and 4% harvested. Last year 90% turning color, 42% ripe, and 7% harvested. Moisture adequate. Six days suitable for fieldwork. Livestock in good condition.

FLORIDA: A small upper level disturbance continued to help showers and thundershowers to develop most places during the week. Temperatures and rainfall continued normal for this time of the year.

Soil moisture adequate most of State. Daily showers occurred. Corn harvest getting underway in Panhandle. Late corn making good progress. Tobacco harvest continues all areas, weather permitting. Soybeans, peanuts, sorghum making good growth. Some problems with army worms. Most soybeans have been planted. Hay cutting was interrupted by frequent showers. Sugarcane is making rapid growth. Pastures mostly good to excellent condition as adequate to surplus soil moisture prevailed. Surplus moisture causing problems in lower areas as standing water prevailed. Cattle condition ranged from fair to excellent but majority good. Citrus grove condition very good to excellent, moisture adequate, afternoon rains most areas, very little irrigation, new crop fruit progressing well. Va-

lencia harvest all but over. Season practically over most spring vegetables. Light volume watermelons moving from north and Panhandle. Sweet corn continues Zellwood area. Season nearing end. Gadsden tomato harvest complete. Limited supplies celery, cucumbers, eggplant, peppers available few areas. Land preparation summer and fall planting underway.

GEORGIA: Widespread showers mainly 13th thru 15th. Local rainfall amounts quite variable with average amounts less than 0.25 in. extreme north to near 1.50 in. in southeast. Above normal temperatures, early in week but otherwise rather cool. Average temperatures 1 to 2° below normal.

Soil moisture 3% very short, 27% short, 60% adequate, 10% surplus. Shortages mainly north, surpluses mainly southeast. Five days suitable for fieldwork. Combating weeds and insects main activity. Hay and tobacco harvest and soybean planting active. Corn 20% fair, 65% good, 13% excellent; 98% silked, last year 97%; 80% dough, last year 81%; 46% dent, last year 63%. Cotton 21% fair, 69% good, 6% excellent; 96% squaring, last year 93% and average 92%; 63% setting bolls, 76% last year, and 73% average. Sorghum 89% planted, last year 92% and 86% average. Peanuts 17% fair, 69% good, and 14% excellent; 95% blooming, last year and average 96%; 74% pegging, last year 83%, average 82%. Soybeans 18% fair, 72% good, 8% excellent; 95% planted, last year 98%, average 96%, 18% blooming, 15% last year. Tobacco 20% fair, 71% good, 5% excellent; 39% harvested, last year and average 25%. Wheat 98% harvested, last year and average 100%. Watermelons 65% harvested, 66% last year and 58% average; condition 38% fair and 59% good. Peaches 13% very poor, 11% poor, 32% fair and 42% good; 72% harvested, last year 68% and average 72%. Apples 22% poor, 42% fair, 25% good. Hay crops 24% fair, 63% good, 9% excellent. Pastures 21% fair, 70% good, 7% excellent. Cattle and hogs good.

HAWAII: Weather favorable. Light showers. Mainly windward areas. Crops in fair to good condition. Spraying program maintained to minimize disease and insect damage. Vegetables: Supplies adequate. Green onions, romaine and head cabbage output heavy. Bananas: Supplies light. Papayas: Supplies light. Pineapples: Harvesting very active. Peak season. Sugar: Steady harvesting. Pastures: Generally fair to good.

IDAHO: A low pressure system off the west coast brought frequent showers and below normal temperatures to the entire State. Temperatures ranged from 4 to 10° below normal. The high was at both Lewiston and Grandview with a reading of 86° while the low was once again at Stanley with a chilly 31°. Precipitation was heavy and widespread with totals ranging from only 0.08 at Burley and Hamer to 1.71 in. at Grangeville. Most reporting stations averaged from 0.25 to 0.50 in. above normal.

Cool weather and intermittent thundershowers. Cereal grains good to excellent. Winter wheat 100% headed, 24% turned color, 33% in 1981. Spring wheat 83% headed, 8% turned. In 1981 it was 84% headed, 16% turned. Barley 77% headed, 80% in 1981. Potato crop in very good shape. This year 41% closed the middles, 34% last year. First cut alfalfa hay 82% complete, 90% last year. Cherry crop again damaged by heavy rain.

ILLINOIS: Temperatures 1 to 5° above normal. Precipitation heavy, 1.00 to 7.00 in.

Winter wheat 75% combined, 84% 1981, 81% average. Corn 33% excellent, 61% good, 6% fair. Corn 32% silked. Soybeans 100% planted, 100% 1981, 100% average. Soybeans 14% excellent, 72% good, 14% fair. Alfalfa 45% second crop cut. Oats 60% turning yellow; 20% ripe; 5% combined. Pastures 26%

excellent, 70% good, 4% fair. Soil moisture 1% short, 58% adequate, 41% surplus.

INDIANA: Fieldwork averaged 5 days. Topsoil and subsoil moisture adequate. Wheat 40% combined, 1981 60%, average 55%. Oats 5% combined, 1981 10%, average 10%. Rye 35% combined, 1981 45%, average 45%. Corn 20% silked, 1981 0%, average 10%. Corn 61 in. high, 1981 35 in., average 51 in. Soybeans 100% planted, 1981 98%, average 100%. Soybeans 30% in bloom, 1981 5%, average 20%. Corn and soybean condition good. Alfalfa 30% cut second time, 1981 40%, average 45%. Pastures fair to mostly good.

IOWA: Unseasonably warm and wet. Spotty showers produced less than an inch of rain several localities to localized floods elsewhere.

Topsoil moisture: 28% surplus, 72% adequate. Subsoil moisture: 27% surplus, 73% adequate. Average height of corn: 40 in. Wheat harvested: 10%, last year 46%, normal 42%. Second crop alfalfa hay harvested: 13%, last year 48%, normal 43%. First crop clover harvested: 90%, last year 97%, normal 97%. Fieldwork: 4.5 days suitable. Crop conditions: Corn and soybeans, fair to good; pasture, wheat oats and hay mostly good. Livestock in good condition.

KANSAS: Another wet week with precipitation averaging 0.75 in. northwest district to 1.97 in. north central district. Temperatures averaged 72° northwest to 76 to 79° elsewhere and from 1° above normal northeast to 3° below normal northwest.

Wheat harvest, aided by near normal summer weather, surged forward to the 70% level, compared with 90% last year and the average of 85%. Corn good growth in warm, humid weather but some weed problems. Silking at 10% level, 15% last year, 20% average. Sorghum making good early growth. Some replanting has been necessary. Currently planting 85%, 95% last year, 100% average. Soybeans good growth, early stands blooming. Planting 85%, 90% last year, 100% average. Blooming 5%, 5% last year, 10% average.

KENTUCKY: Very warm and humid weather. High temperatures were near 90° for first half of week and temperatures over week averaged 3 to 5° above seasonable normals. Precipitation ranged from around 2.00 in. in the west to 0.50 to 1.00 in. in east with heaviest rain occurring as thunderstorms over weekend.

Days suitable for fieldwork averaged nearly 5. Soil moisture 38% short, 55% adequate and 7% surplus. All crops showing good development but lack of moisture starting to effect potential yields. Soybean development ahead of last year and average with 15% blooming. Planting following small grains nearly complete. Tobacco showing good growth with 32% over 2 feet tall, 49% is 12 to 24 in. and 19% under 12 in. Some early tobacco blooming. Wheat harvest virtually complete. Hay quality down due to dry weather and rain at harvest time. Pastures in mostly good condition.

LOUISIANA: Rainfall averaged 0.10 to 1.50 in. Temperatures averaged 1 to 2° above normal.

Corn dough 88%, 83% 1981, 68% average. Mature 36%, 42% 1981; 24% average. Harvested 7%, 3% 1981. Condition good. Cotton squaring 93%, 87% 1981, 85% average; setting bolls 20%, 50% 1981, 31% average; condition good. Rice headed 39%, 53% 1981, 52% average. Sorghum emerged 97%, 95% 1981, 98% average; headed 55%, 64% 1981, 46% average. Condition fair to good. Soybeans emerged 97%, 96% 1981, 95% average. Soybeans flowering 14%, 22% 1981, 23% average; condition fair to good. Sugarcane condition good. Sweetpotato condition good. Vegetables fair to good. Peach harvest 72%, 80% 1981. Pasture condition fair to good.

Hay first cutting 99%, 93% 1981. Livestock condition good.

MARYLAND AND DELAWARE: Temperatures averaged 2° below normal. Highs in 80's, lows in 60's. Stations everywhere except western Maryland had maximums in the low to mid 90's. Precipitation averaged 0.79 in. Ranged from 0.22 to 4.04 in.

Delaware: Wheat harvested 80%, last year 70%. Rye, 55%; last year, 60%. Corn acreage in silk 25%, last year 30%. Soybeans all planted, equal last year, 96% normal. Alfalfa 2nd cutting 80% harvested, last year 80%. Other hays, 30% cut, last year 35%. Pea harvest nearly over, snap beans, midway, cucumbers one half; tomatoes and sweet corn just began. Topsoil short to adequate; subsoil, adequate. Insect infestations light. Fieldwork: 6.5 days suitable.

Maryland: Wheat acreage 65% harvested, 60% last year. Rye 60% cut equal year ago. Oats 25% combined, equal last year. Soybeans planted, equal last year, 96% normal. Corn silked 20%, last year 25%. Tobacco planted. Alfalfa 2nd cut 55%, 75% in 1981. Other hays 35%, 15% year ago. Pea harvest near end, snap beans at mid point, cucumbers one quarter, tomatoes and sweet corn just underway. Topsoil short to adequate short primarily in South. Subsoil mostly adequate. Leaf hoppers severe in northern counties, corn borers light. Aphids and hornworms bothering tobacco. Fieldwork: 6.5 days suitable.

MICHIGAN: Temperatures averaged 2 to 6° above normal. High temperatures ranged from the upper 80's to lower 90's while the lows were in the low 40's to mid-50's. The heaviest amounts of rain occurred during the weekend and in the western Upper Peninsula where an average of 3.50 in. was recorded. Portions of the western Lower received up to 2.00 in. from the same rainfall system.

Warm weather and mostly adequate soil moisture boosted crop progress. Statewide 6 days were suitable for fieldwork. Corn height 40 in., ahead of last year's 34 in. and 39 in. average. Winter wheat turning yellow 85%, 95% last year and 96% average. Oats 5% yellow, 15% last year and 13% average. First cutting hay 90% complete, 90% in 1981 and 92% average. Cherry harvest underway. Sweet cherries 15% picked, 20% last year and 29% average. Tart cherry harvest behind last year and average.

MINNESOTA: Near normal temperatures and heavy rainfall most areas. Temperatures averaged upper 50's extreme northeast to generally mid 60's to low 70's elsewhere and were from 3° below to 4° above normal. Highest reported temperature was 100° at Minneapolis/St. Paul, while the coolest was 40° at Staples. Heavy rainfall was reported over much of the State with most locations above normal for the week. Totals ranged from 0.32 in. in Red Wing to 6.11 in. at Winnebago. The south central section averaged over 3 in. while the northeast, northwest, and west central all averaged over 2 in. Only the southeast averaged under 1 in. with 0.72 in. Hail and high winds did considerable damage in the southwest.

Rain relieved dry conditions. Only southeast remains dry although no stress on crops. Topsoil moisture 14% short, 72% adequate, and 14% surplus. Heavy hail damage in Rock and Dodge Counties. Warm temperatures helped crops make rapid growth. Heading: Spring wheat 68%, 1981 97%, normal 84%; oats 83%, 1981 97%, normal 88%; barley 71%, 1981 98%, normal 87%. Height: Field corn 31 in., 1981 43 in., normal 45 in.; soybeans 10 in., 1981 13 in., normal 16 in.; sunflowers 12 in., 1981 27 in., normal 25 in. Blooming: Soybeans 7%, 1981 14%, normal 30%.

MISSISSIPPI: Temperatures averaged near normal. Extremes 62 and 98°. Numerous scattered thunderstorms. Greatest 24-hour rainfall 3.42 in.

Soil moisture adequate. Fieldwork: 5.1 days suitable. Weed and insect control measures main farm activity. Cotton 98% squaring, 97% last year, 91% average; 57% blooming, 72% last year, 56% average; 32% setting bolls, 34% last year, 24% average; condition good. Soybeans 98% planted, 98% last year, 99% average; 4% blooming, 17% last year, 14% average; condition good to fair. Sorghum 98% headed, 96% last year. Corn 85% silked, 50% dough stage; condition good to fair. Rice 2% headed, 18% last year; condition good. Peaches 57% harvested; watermelons 35%; hay 58%. Pasture condition good.

MISSOURI: Temperatures ranged from 2° below normal to 4° above normal. Precipitation averaged 1.00 in. in east.

Fieldwork: 4.6 days suitable. Corn 54% tasseled, last year 55%. Corn 20% silking, last year 24%, normal 28%. Grain sorghum 95% planted, last year 80%, normal 100%. Single crop soybeans 97% planted, last year 84%, normal 99%. Double crop soybeans 77% planted, last year 53%. Soybeans 8% blooming, last year 8%, normal 15%. Wheat 60% harvested, last year 54%, normal 78%. Oats 38% harvested, last year 30%, normal 50%. Alfalfa hay-second cutting 32% harvested, last year 58%, normal 57%. Third cutting 4% harvested. Other hay 70% harvested, last year 69%. Cotton 96% squared, last year 77%, normal 36%. Cotton 50% setting bolls, last year 6%, normal 25%. Condition of cotton and soybeans fair to good. Condition of corn and pasture mostly good. Topsoil moisture supply mostly adequate.

MONTANA: Temperatures cool, averaged 4 to 5° below normal. Coolest first of week with warming by end of week. Showers mostly 5th and 9th with totals 0.20 to 1.50 in.

Topsoil and subsoil moisture generally adequate. Localized topsoil shortages reported northeast, southwest, south central. Fieldwork: Days suitable 5. Crop progress compared with last year and normal: Percent headed, winter wheat 85, 40, 40; spring wheat 30, 55, 55; barley 30, 60, 55; oats 30, 60, 55; turning color, winter wheat 5, 55, 55; first cutting alfalfa hay 40, 80, 75; wild hay 20, 50, 45. Pastures and ranges good to excellent, stock water supplies adequate. Condition all crops generally good, except corn fair to good.

NEBRASKA: Precipitation: Showers at beginning and end of week. Northeast and east central averaged 1.50 in. Other areas from 0.10 to 0.70 in. averages. Temperatures: 1° above normal in east to 6° below normal in Panhandle.

Winter wheat mostly fair to good. Harvested 10%, 65% last year and 50% normal. Ripe 55%, 90% last year and 75% normal. Yields in southeast variable reflecting moderate to severe disease and lodging problems. Corn mostly good to fair. Silked 0%, 6% last year and 10% normal. Soybeans mostly good to fair. Sorghum mostly good to fair. Alfalfa second cutting 15%, 60% last year and 50% normal. Condition mostly good. Pasture and range feed supplies mostly adequate to surplus. Topsoil and subsoil moisture adequate. Days suitable: 5.9.

NEVADA: Week started with storms most areas. Temperatures averaged 15° below normal. Light precipitation north and central. Another weak storm midweek produced thundershowers south and east. By end of period temperatures warmed to seasonal normals with upper 80 to 90° across north and 105° extreme south.

First cuttings alfalfa hay complete except high elevations. Development small grains, row crops considerably behind last year but recent

warm daytime temperatures pushing growth. Range feed prospects remained at relatively high levels.

NEW ENGLAND: Temperatures averaged 1 to 5° above normal. Warmest days: 90's on 7th and 8th. High humidities. Very little rain. Isolated showers and thundershowers on the 7th, 8th and 11th. Amounts: Lebanon, NH 0.13 in. on 11th; Providence, RI 0.12 in. on the 8th.

First cutting hay harvest: 74%, 1981 79%, quality subnormal. Maine potatoes: Wide range in size, good condition. Cranberry bloom has been heavy on many bogs. Good pollinating weather, yet bee activity variable. Excellent crop prospects. Recent warm weather has allowed warm-season vegetable development to improve but still about 1 week behind normal. Growers hoping for a late frost.

NEW JERSEY: Temperatures averaged near normal. Extremes: 47° at Charlotteburg and Pemberton on 6th and 95° at Hammonton on 8th. Rainfall averaged 0.43 in. north, 0.70 in. central and 0.24 in. south. Heaviest 24-hour total 1.73 in. at Newton on 11th to 12th. Estimated soil moisture, in percent of field capacity averaged: 80% north, 68% central and 60% south. Four inch soil temperature averaged: 68° north, 71° central and 71° south.

Higher temperatures advanced crop maturity. Summer vegetables moving to market at increasing rate. Light potato digging underway for local markets. Blueberry harvest advancing. Bluecrop variety being picked. Summer apple harvest begun. Peach harvest becoming general. Barley combining about complete, wheat harvest increasing. Soybean planting continues following grain harvest. Hay making active as weather conditions permit. Pasture growth heavy.

NEW MEXICO: Higher temperatures reached the 100° mark in the southern Desert late in the week. Temperatures averaged slightly below normal over most of the State.

Rains and some hail continued to interrupt outdoor activities. Severe hail damage for the week was limited. Soil moisture remains in a short to adequate supply. Cotton in good condition, however, the growth remains behind normal due to cool nighttime temperatures. Alfalfa fields continue in good condition. The third cutting well underway in the south. Harvest of wheat and barley about 90% complete. Irrigated corn and grain sorghum in good condition and progressing well. The dryland crops were in fair condition. Chile and onions in good to excellent condition. Ranges mostly fair condition. Cattle and sheep in good condition.

NEW YORK: Warm, dry weather boosted plant growth. Best fieldwork conditions since May. Corn development variable. Great haying weather. First cutting alfalfa 76% done, 70% 1981, 80% average. Clover-Timothy hay 60% complete, 60% 1981, 70% average. Grass silage harvest 89% in, 76% 1981, 85% average. Second cut hay starting. Sweet cherry harvesting in progress. Apples, peaches, pears in good condition. Strawberry harvest nearing completion. Irrigation of Long Island, some Upstate vegetable crops underway. Early Long Island snap bean harvest starting.

NORTH CAROLINA: Temperatures: Normal across the entire State. Precipitation: From just a few hundredths at Hickory, Fayetteville, and Asheville to 1.96 in. at Cape Hatteras.

Soil moisture: 4% very short, 44% short, 47% adequate, and 5% surplus. Fieldwork: 5.8 days suitable. Conditions: Pasture, corn, cotton, peanuts, soybeans, sweetpotatoes, and truck crops mostly good; field tobacco, hay, Irish potatoes fair to mostly good; apples poor to fair. Plantings: Soybeans 92%, 1981 98%, 99% average.

Harvests: Irish potatoes 75%, 1981 82%, 80% average; wheat 94%, 1981 98%, 96% average; oats 98%, 1981 100%, 98% average; barley 99%, 1981 100%, 98% average; rye 97%, 1981 100%, 98% average; flue-cured tobacco 10%, 7% average; hay 65%, 1981 67%, 69% average. Phenological stages: Cotton squared 92%, 1981 77%; cotton bloomed 32%, 1981 33%; corn silked 85%, 1981 80%; corn soft dough 42%, 1981 50%; corn dent 12%, 1981 19%; soybeans bloomed 6%, 1981 8%. Supplies: Major farm activities: Harvesting flue-cured tobacco, soybean planting, and completion of small grain harvest.

NORTH DAKOTA: Temperatures averaged near normal. Extremes: 99° southeast to 45° northeast. Precipitation averaged 0.87 in. above normal. Wettest areas were east central and north central, which averaged over 2 in. Very severe weather struck the State on July 4, 5, and again July 8. Hail up to 2 in. and winds of 70 to 80 mph were reported in sections of State.

Warm weather helped push crop development which still lags behind average. Hard red spring about 8 days behind normal and sunflower about 6 days. Rapid growth put heavy demand on soil moisture. Much of southwest and areas in southeast in need of additional rain. Overall, crop condition mostly good. Some locally heavy hail, wind and rain damage from storms in several areas. The percent of acreage heading or beyond with last year and average was: hard red spring wheat 48, 79, 67; durum 33, 68, 56; barley 58, 83, 72; and oats 44, 81, 67. Average height of row crops with last year and average was: sunflower 15, 19, 23; corn 22, 21, 29, and soybeans 10, 11, 14.

OHIO: Temperatures averaged above seasonal levels. Readings generally 3 to 4° warmer than normal. Growing degree totals range from 165 northwest to 190 southwest. Precipitation widespread. Northwestern sections average 0.50 to 0.75 in. Northeast and far southwest average 0.10 to 0.33 in. Totals ranged just under inch to 3.00 in. west central, southeast. Evaporative loss rates averaged 1.50 in.

Increasing temperatures, less rain providing conditions for improved crop progress. Moisture levels of winter wheat too high, slowing combining considerably. Farm activities: Haymaking, little wheat combining, spraying fruit and field crops, hauling manure, cultivating row crops, baling straw and planting double-cropped soybeans. Winter wheat harvest 15%, 40% 1981, 30% average. Corn silked 15%, 0 1981, 5% average. Oats ripe 15%, 25% 1981, 20% average. Alfalfa - 1st cut 100%, 100% 1981, 100% average. Alfalfa - 2nd cut 25%, 20% 1981, 25% average. Other hay - 1st cut 95%, 85% 1981, 95% average. Other hay - 2nd cut 10%, 5% 1981, 15% average. Days favorable 5.0. Pasture condition good. Soil moisture 75% adequate, 25% surplus.

OKLAHOMA: Rainfall averages ranged from 0.33 in. in the southwest to 1.90 in the Panhandle. Temperatures ranged from 2° below normal in the southwest to 1° above in the three eastern districts.

Sunshine and warm temperatures during most of week continued to aid harvesting of hay, wheat and other small grains. Wheat harvesting: 90%, 99% 1981, 95% average. Sorghum up-to-stand: 65%, 93% 1981, 95% average. Cotton up-to-stand: 85%, 98% 1981, 100% average. Days suitable for fieldwork: 5.0.

OREGON: Temperatures averaged 55 to 65°; 5° below normal in west and 7° below normal in east. Rainfall amounts totaled 0.20 in. in west; 0.80 in. in east; up to 1.50 in. in High Plateau.

Moisture supplies short to mostly adequate. Winter wheat harvest just starting; 1% last year. Swathing grass seed fields; hampered by rain. Barley harvest continues. Haying making progress; some rain damaged. Strawberry harvest about over. Raspberry, loganberry, blueberry harvest continues. Marion berry and boysenberry harvest started. Sweet cherry harvest winding down. Apple and pear thinning progressing. Cranberry bloom about full; good bee activity. Filberts and walnuts look good. A few chipping potatoes being dug. Early potato harvest 10 days away. Green pea harvest continues; rain helped later fields. Cole crops harvest continues. Early snap beans being harvested. Sweet corn development has been slow. Livestock generally good. Range and pastures improving with recent rains. Tansy Ragwort spraying about over. Fire danger high in some eastern locations.

PENNSYLVANIA: Sunny, warm, and dry with increasing temperatures and very high humidity last half. Temperatures averaged from several degrees above normal west to several degrees below normal east. Daily highs mostly 70's and 80's and lows 50's and 60's. Extremes: 92 and 42°. Except for some light scattered showers and thunderstorms mid-week that produced up to 0.50 in. rainfall west and parts of south central, most central and eastern sections received no rain for driest week statewide since mid-May.

Five days suitable. Moisture mostly adequate. Activities: Planting soybeans; spraying, clipping pastures; making hay and haylage; green chopping oats; baling straw; and harvesting barley, wheat, rye, snap beans, cabbage, sweet corn, peaches, tomatoes, blueberries and raspberries. Soybean planting virtually complete, approximately one week later than last year. Barley 28% ripe and 39% harvested, last year 38% ripe and 42% harvested. Wheat 16% ripe and less than 5% harvested, last year 37% ripe and 11% harvested. Oats 77% headed and 18% turning yellow, last year 62% headed and 28% turning yellow. Average corn height 34 in., last year 37 in. First crop alfalfa 93% harvested, last year virtually all harvested at this time. Second crop alfalfa 20% harvested, last year 38%. First crop clover 81% harvested, last year 88%. Quality of hay made good to fair. Feed from pastures average to above average.

PUERTO RICO: Island average rainfall 0.94 in. or 0.18 in. below normal. Highest weekly total 3.47 in. Temperatures averaged about 81 to 82° on Coasts and 77 to 78° Interior Divisions. Extremes: 94 and 63°.

SOUTH CAROLINA Temperatures averaged little below normal. Scattered showers and thunderstorms across State with a few heavy downpours.

Soil moisture short to adequate with 5 days available for field activity. Corn good to excellent condition; 60% dough stage, 79% last year, 63 average; 9% mature compared to 13 year ago and average. Cotton 99% squared, 100 year ago, 92 average; 67% setting bolls, 76 year ago, 57 average. Scouting results triggered closer spraying schedules; conditions fair to good. Peanut conditions fair to good. Tobacco fair to good, noting poor curing where too much nitrogen used; 90% topped, 92 last year, 86 average; 20% harvested near 24 year ago, 18 average. Soybean stands good, crop conditions fair to good; with herbicides controlling weeds; some intended acreage will not be planted where too wet; 95% planted, 97 year ago, 98 average. Peach volume shifting to Loring's, Blakes with size increasing and good quality. Piedmont harvester variety only enough for roadside sales.

Statewide peach conditions fair to good. Tomato conditions fair with picking shifting to upstate; 95% harvested, 96 last year and 92 average. Watermelons good condition, few counties too wet; 31% harvested, 49 last year, 53 average.

SOUTH DAKOTA: Temperatures averaged 2 to 3° below normal. Extremes: 98 and 44°. Precipitation varied. Heaviest in east, 1.00 to 3.00 in. Majority of State under 1.00 in. The east and part of central remain below normal in precipitation for the year. Remainder of State above normal.

Topsoil moisture critically short part of north central and northeast. Short in much of west, parts of central, northeast, and balance of north central. Adequate or surplus remainder. Five days suitable. Hail and wind damage parts of east central, light to severe damage. Some experienced total loss. Statewide, crops mostly in good condition. Most areas will need rain to maintain condition. Haying and cultivating major activities. Range and pastures good to excellent condition. Sorghum planted 97%, 1981 100%, average 100%. Flax blooming 64%, 1981 66%, average 71%. Corn height (inches) 22%, 1981 32%, average 32%. Corn cultivated once 91%, 1981 98%, average 99%. Corn cultivated twice 53%, 1981 78%, average 80%. Spring wheat heading 91%, 1981 99%, average 96%. Oats heading 96%, 1981 100%, average 97%. Barley heading 97%, 1981 100%, average 96%. Winter wheat turning color 66%, 1981 98%, average 93%. Winter rye turning color 70%, 1981 95%, average 89%. Spring wheat turning color 22%, 1981 8%, average 45%. Oats turning color 24%, 1981 80%, average 57%. Barley turning color 35%, 1981 83%, average 60%. Alfalfa cut once 94%, 1981 96%, average 97%.

TENNESSEE: All crops and livestock in good condition. Average 4.8 days fieldwork. Soil moisture 42% short, 50% adequate, 8% surplus. Soybeans planted 100%, 100% 1981, 95% average. Soybeans blooming 10%, 11% 1981, 14% average. Cotton squaring 81%, 84% 1981, 74% average. Cotton setting bolls 16%, 4% 1981, 14% average. Corn silking 41%, 42% 1981, 44% average. Corn dough stage 6%, 8% 1981, 8% average. Wheat harvest 96%, 95% 1981, 92% average. Oat harvest 91%, 93% 1981, 92% average. Second cutting alfalfa 91%, 83% 1981, 82% average. Tobacco and pastures in fair condition.

TEXAS: Weather: Weak cold front entered Panhandle early week, but quickly died out. Scattered thunderstorms accompanied front parts West Texas, drifting into North Central Texas during morning hours. Widely scattered thunderstorms also Hill Country and East Texas. End of week new cold front pushed into North Texas, triggering scattered thunderstorms parts of West and North Texas. Temperatures near normal. Rainfall above normal High Plains by 1.00 in. and North Central Texas by 0.50 in. Rainfall 0.25 in. below normal Valley.

Range and pasture: Good moisture supplies continue improve range and pasture conditions most areas. Forage production good, stock tanks remain full. Edwards Plateau and South Central Texas some native pastures moisture stressed, vegetation curing. Grasshoppers continue problem some areas. Livestock good to excellent condition.

Cotton squaring 34%, 66% 1981. Cotton setting bolls 12%, 27%. Cotton open bolls 1%, 3% 1981. Rice headed 91%, 87% 1981. Rice turning color 10%, 38% 1981. Sorghum planted 100%, 100% 1981, 100% average. Sorghum headed 67%, 69% 1981. Sorghum turning color 50%, 55% 1981. Sorghum mature 23%, 30% 1981. Sorghum harvested, grain 12%, 11% 1981, 16% average. Wheat turning color 100%, 100% 1981. Wheat harvested, grain 88%, 96% 1981, 96% average. Oats, grain harvested 90%, 96% 1981, 99% average.

Peanuts planted 97%, 94% 1981, 98% average. Soybeans planted 90%, 86% 1981, 97% average. Sunflowers planted 90%, 90% 1981, 97% average.

Crops: Dry, open weather returned portions Panhandle, planting and harvesting operations progress. However, scattered showers and heavy rains over weekend interrupted most fieldwork Southern High Plains. Replanting active across region; many producers replanting alternate crops. Southern part of State, crops maturing rapidly under hot, dry weather. Along coast, some fields moisture stressed. Cotton weather returned High Plains as temperatures rose upper 90's. Replanting active, although most farmers replanting to alternate crop. Some storm-damaged fields summer fallowed. Early stands squaring Southern High Plains. Insect control measures underway Blacklands through South Central Texas, since insect populations high scattered fields. Stands maturing rapidly Lower Valley. Reported condition across State was 49% of normal with 3% excellent; 22% good; 29% fair; 44% poor; and 2% failure. This compares with 86% of normal last year. Sorghum harvest gaining momentum, underway South Central Texas. Some areas plants top heavy, heads fallen to ground. Fields maturing rapidly Blacklands, harvest begin soon. Midge, headworms causing some damage Central Texas. Statewide condition was 83% of normal with 14% excellent; 56% good; 27% fair; and 3% poor. This compares with 91% of normal last year. Corn tasseling High Plains. Most fields good recovery from recent storm damage, development good. Ears rapidly maturing Central Texas southward, limited harvest underway Lower Valley. Condition across State was 87% of normal with 18% excellent; 61% good; and 21% fair. This compares with 90% of normal last year. Wheat harvest progress High Plains, scattered showers interrupted operations some areas. Heavy weed and grass populations some stands increased moisture tests. Some fields sprayed weeds while others abandoned. Harvest nearing completion Low Plains with open weather. Reported condition across the State was 65% of normal with 2% excellent; 29% good; 58% fair; 10% poor; and 1% failure. This compares with 75% of normal last year. Early rice fields along coast turning color. Some early fields harvested; however, major harvest couple weeks off. Water drained from fields preparation for harvest. Minor worm damage reported scattered fields. Condition across State was 89% of normal with 13% excellent; 74% good; and 13% fair. This compares with 90% of normal last year. Peanuts good progress Cross-Timbers with the warm temperatures and adequate moisture supplies.

Commercial vegetables: Lower Rio Grande Valley, vegetable harvest active and movement to markets light to medium. Citrus development good, grove maintenance operations continue. San Antonio-Winter Garden, carrot harvest complete Bexar County. Melon harvest winding down. Harvest cucumbers, cantaloups and onions continued. East Texas, weed control measures underway melon and sweetpotato fields. Tomato harvest continued. Land preparation underway fall vegetables. Trans-Pecos, some potato fields plowed up because poor development. Tomatoes, cantaloups blooming Hudspeth County. Cabbage harvest underway, although some stands hail damaged. Plains, some vegetable fields abandoned because severe storm damage. Onion harvest full swing, although quality poor. Potato harvest good progress as fields dry. Peach harvest active. Cross-Timbers, some trees dropping fruit prematurely. Pecan producers spraying second generation casebearers.

UTAH: Recurring periods of shower and thunderstorm activity principally north and west portions. Accumulated amounts moisture generally light to moderate, but locally heavy few localities. Much colder temperatures with averages ranging between 2° below normal and 11° below.

Moisture used by plants decreased northwest portion, but remained between 2.5 and 3.5 in. in south and east.

Soil moisture short to adequate following scattered rains. Crop development behind normal but making good progress. First cutting alfalfa nearly complete. Considerable rain damage to cut hay. Winter wheat 70% turning color, 10% ripe. Harvest has begun in southeast. Yields reported good. Barley and spring wheat over 90% headed, 42% barley turning color, 13% spring wheat. Irrigation water in good supply statewide.

VIRGINIA: Warm and humid with scattered afternoon and evening showers and thunderstorms. Highs in the mid 80's to lower 90's and lows from mid 50's to lower 70's. Rainfall totals ranged from less than 0.50 in. to over 2.00 in. from the heavy thunderstorms.

Reduced topsoil moisture beginning to show in crops and pastures. Topsoil moisture rated 57% short, 41% adequate, and 2% surplus. Days suitable for fieldwork: 5.3. Corn in good to excellent condition, 49% silked, 45% 1981. Soybeans rated good to excellent, 91% planted, 99% 1981, 96% average. Tobacco mostly good to excellent, flue-cured harvest beginning, 1% cropped, 4% 1981, 1% average. Peanuts rated excellent. Hay and pastures rated good to excellent. Small grain harvest progress; wheat 85%, 92% 1981, 82% average; barley 98%, 99% 1981, 92% average; oats 71%, 68% 1981, 62% average. Early soybeans preparing to bloom. Tobacco topping beginning. Grain sorghum beginning to head. Potato, cucumber, tomato, other vegetable crops being harvested. Livestock good to excellent condition.

WASHINGTON: A frontal system crossed the State on 3rd dropping most of the precipitation recorded for the week. Weaker fronts, moving onto the coast 3rd and again on 6th, were followed by a building high pressure system. A few showers lingered over the State but 8th and 9th were mostly dry. Under the influence of the maritime air, temperatures were slightly cooler than normal west of the Cascades and considerably cooler than normals on the east side.

West: Harvesting of lettuce, spinach, green peas, and beets continues. Earlier than normal harvest of corn, tomatoes, and other warm weather crops expected. Cucumber harvest to begin next week. Broccoli harvest underway. Strawberry harvest nearly complete and raspberry harvest has started and crop looks excellent. Blueberries filling out and early varieties being harvested. Sweet corn in tasseling stage in Pierce County. Livestock in good condition with pastures in adequate condition. Hay supplies adequate. Soil moisture fair to adequate.

East: Rain and cool weather benefited growing conditions for grain, pears, and lentils. Corn and potatoes look good. Norgold harvest should start next week. Cucumbers, cabbage, and early peppers being harvested, while green pea harvesting almost over. Yakima sweet corn and first tomatoes near maturity. Cherry harvest continues with reduced yield due to rain damage. Apples and pears sizing well. Early peaches being picked. In some areas, rain delayed completion of first cutting of alfalfa hay. First cutting

of timothy hay in full swing. Livestock in good condition. Pastures improving and in adequate condition. Hay supplies adequate. Soil moisture adequate to good.

WEST VIRGINIA: Temperatures averaged above normal. High 93°, low 50°. Precipitation varied also - ranging from 0.17 to 2.54 in.

Soil moisture adequate. Days worked averaged 4.0. Main activities: Hay harvesting, grain harvesting, and gardening. Wheat fair to good condition: 23% headed, 60% ripe, 17% harvested; 31%, 45%, and 24% in 1981. Barley fair to good condition: 16% headed, 32% ripe, 52% harvested; 12%, 39%, and 49% in 1981. Oats good to fair condition: 6% preheaded, 75% headed, 12% ripe, and 7% harvested; 12%, 65%, 15%, and 8% in 1981. Corn good to fair condition: 100% planted, 99% emerged, same as in 1981. Tobacco fair to good condition; setting completed, same as in 1981. Hay fair to good condition: 1st cutting 78% complete, 69% in 1981; 2nd cutting 17% complete, 15% in 1981. Pasture good to fair condition. Peaches poor to fair condition. Apples fair to good condition. Gardens good to fair condition. Hay supply adequate to short, other feeds adequate.

WISCONSIN: The week started on a hot and humid note. Temperatures remained high through much of the week but humidity eased toward the end of the week. Temperatures averaged 3° above normal. Temperatures ranged from a high of 101° in Baldwin on the 6th to a low reading of 47°. Scattered showers began on 8th and continued through 10th. Precipitation totals averaged 1.00 to 2.00 in. The heaviest rainfall was reported in Watertown where a very heavy storm dumped 6.00 to 11.00 in. of rainfall and caused flooding.

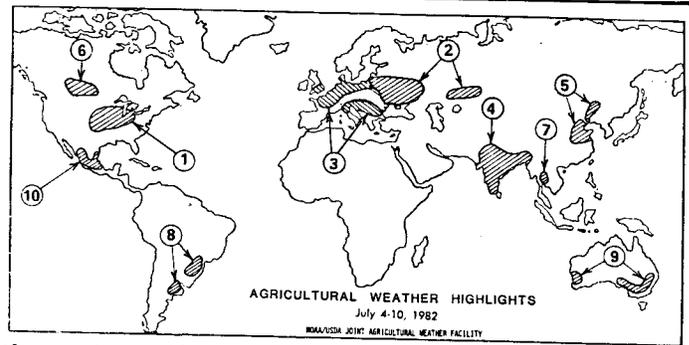
Fieldwork: 6 days suitable. First crop hay harvest was winding down. First crop 94% harvested, 95% 1981, 92% average. Second crop harvest has begun in certain areas; 5% complete, 13% 1981, 6% average. Pastures rated at 85% of normal, 80% 1981, 81% average. Majority of the State's oats crop has headed. Numerous reports of red leaf virus in the crop received. Some farmers harvesting oatlage. State's corn crop perked up with recent warm weather. Average corn height 28 in., 52 in. 1981, 37 in. average. Early pea harvest continuing. Sweet corn responded well to the warm weather. Only the west central district reported growing degree day accumulations above normal at this point. Moisture supplies were rated 19% short, 76% adequate and 6% surplus.

WYOMING: Temperatures below normal with southwest as much as 5.3° below normal. Precipitation amounts varied. Above normal amounts scattered. Northwest reported greatest amounts above normal.

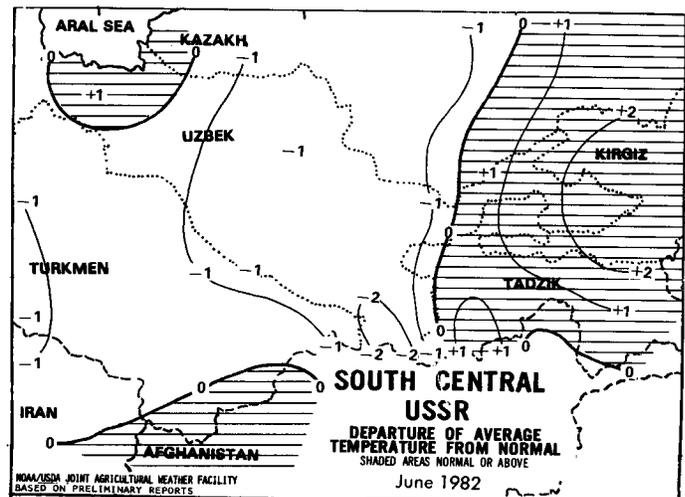
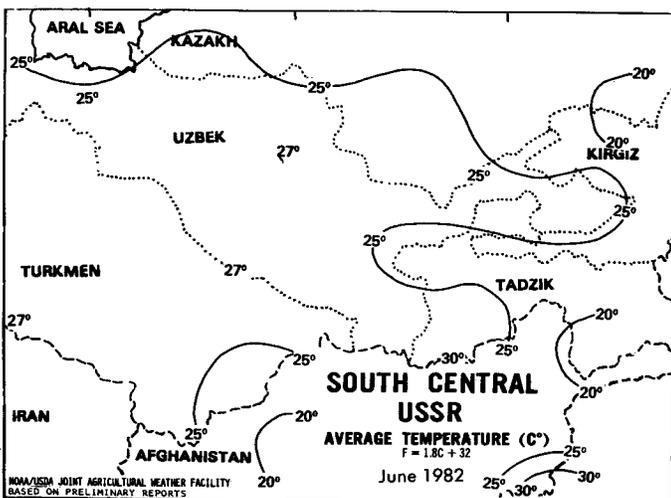
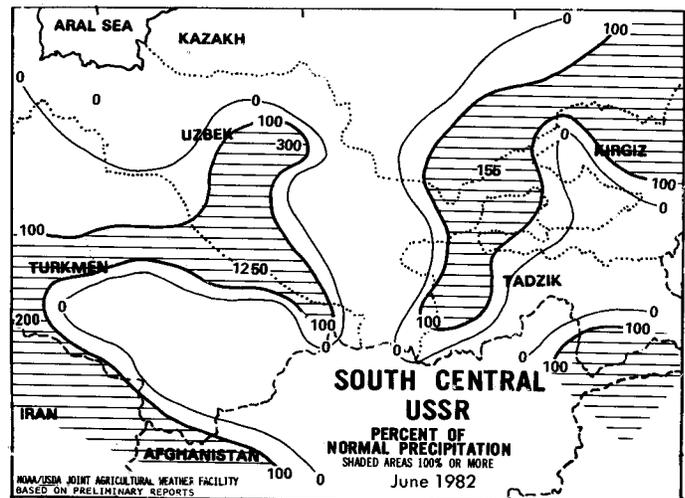
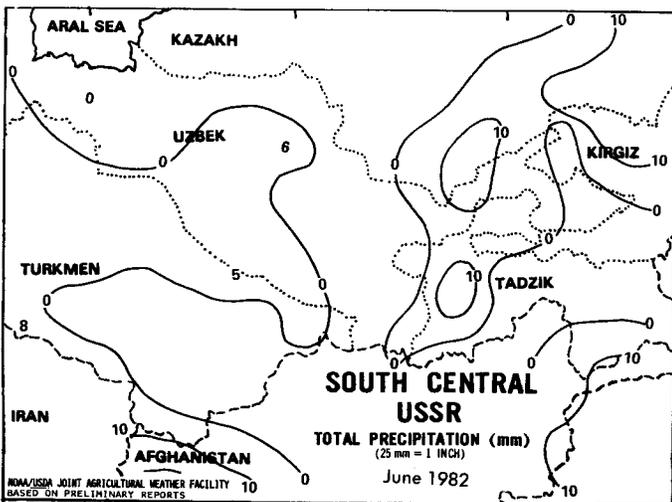
Topsoil moisture 54% adequate and 46% short; year ago 12% adequate and 88% short. Winter wheat turning color or 55% acreage; year ago 95%; normal 80%. Only small amount mature. Spring wheat turning color 10%; year ago 25%; normal 25%. Oats headed 30%; year ago 70%; normal 70%. Barley headed 60%; year ago 80%; normal 85%. Small amount barley turning color. First cutting alfalfa 35% complete; year ago 75%; normal 75%. Six days suitable for fieldwork. Stock water supplies adequate 70% of State.

International Weather and Crop Summary

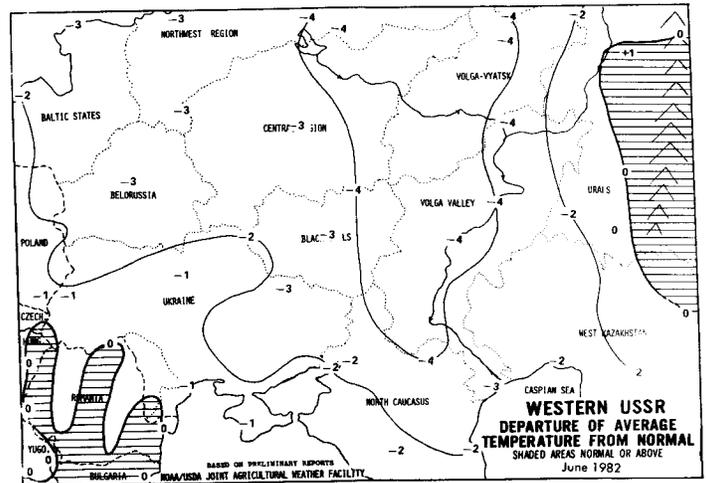
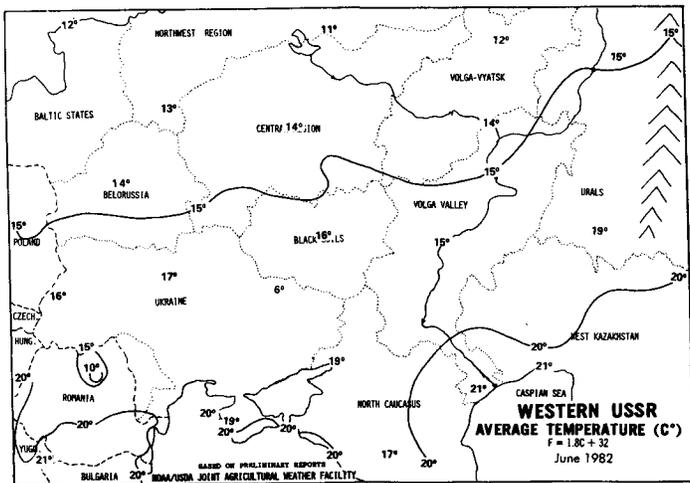
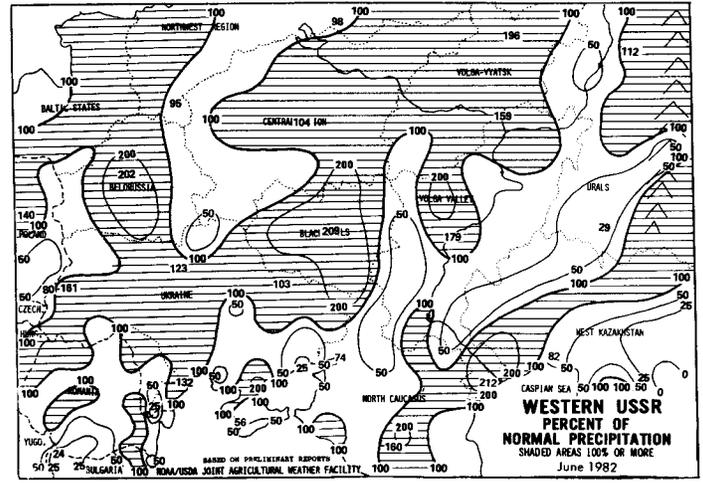
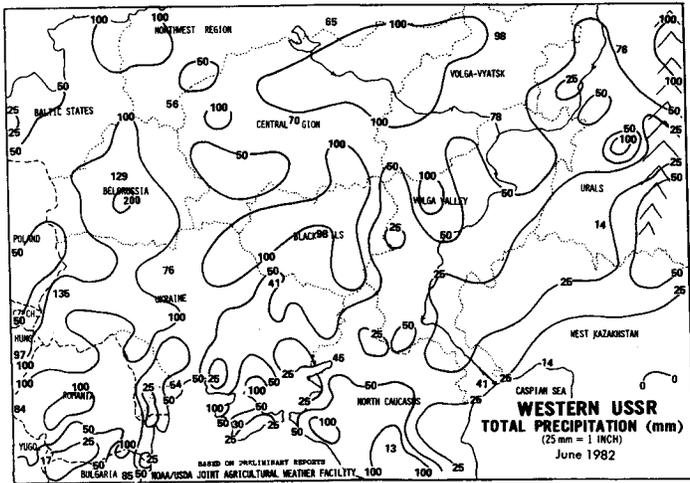
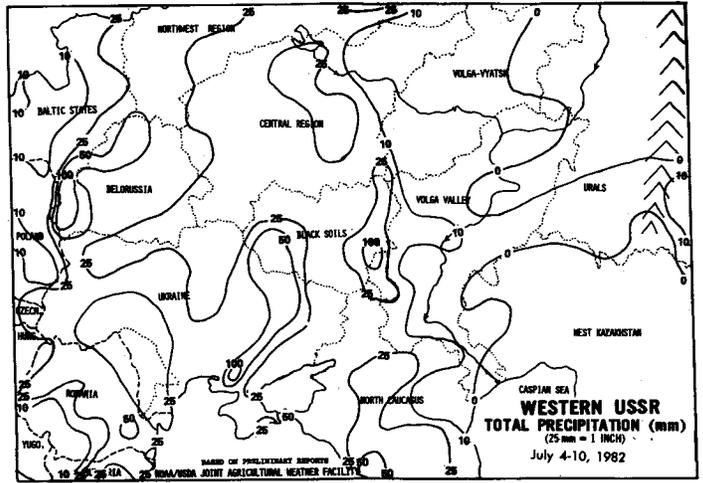
July 4-10



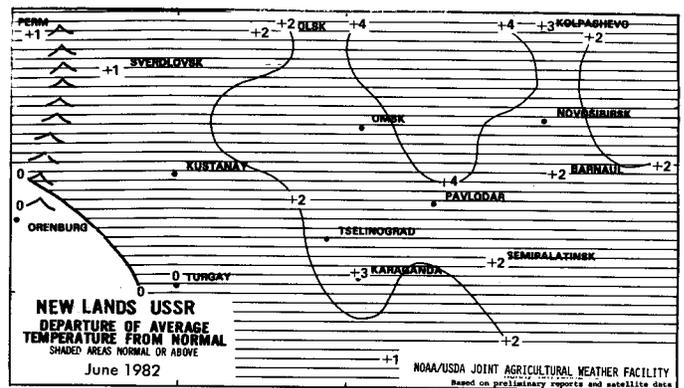
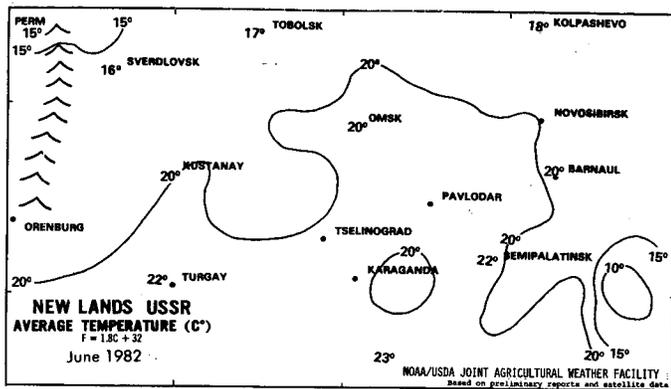
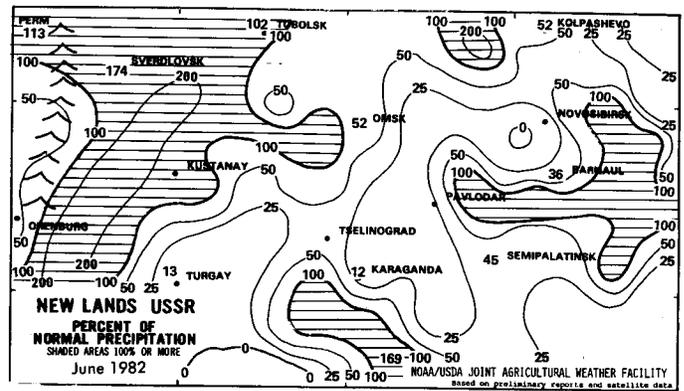
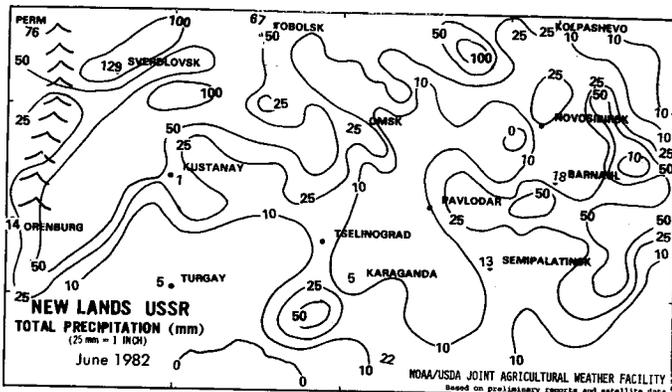
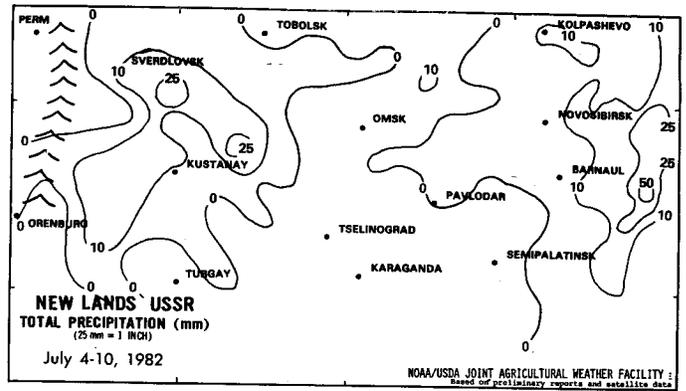
1. **UNITED STATES:** Warmer temperatures over the Corn Belt promotes rapid development of crops; however, severe weather causes some damage over western sections. Heavy rains over parts of the central Plains interrupts harvesting of winter wheat.
2. **USSR:** Showers aid spring grains which are heading in Western USSR; still too dry in much of New Lands.
3. **EUROPE:** Showers aid crop growth in North; generally favorable harvest weather in south.
4. **SOUTH ASIA:** Monsoon strengthens, but west and northwest remain unfavorably dry.
5. **EASTERN ASIA:** Generous rains benefit the northern half of the North China Plain; dryness persists in the northeast.
6. **CANADA:** Generally favorable moisture for heading in most areas.
7. **SOUTHEAST ASIA:** A variable rainfall pattern leaves some corn areas too dry.
8. **SOUTH AMERICA:** Heavy rain soaks newly-sown wheat in southern Brazil; beneficial showers in Argentina.
9. **AUSTRALIA:** Persistent dryness impedes wheat planting in east; becoming dry in west.
10. **MEXICO:** Dry weather aids grain harvesting but stresses citrus over the northeast as well as corn in the southern Plateau. Rainy season intensifies over most watersheds, offering relief to crops.



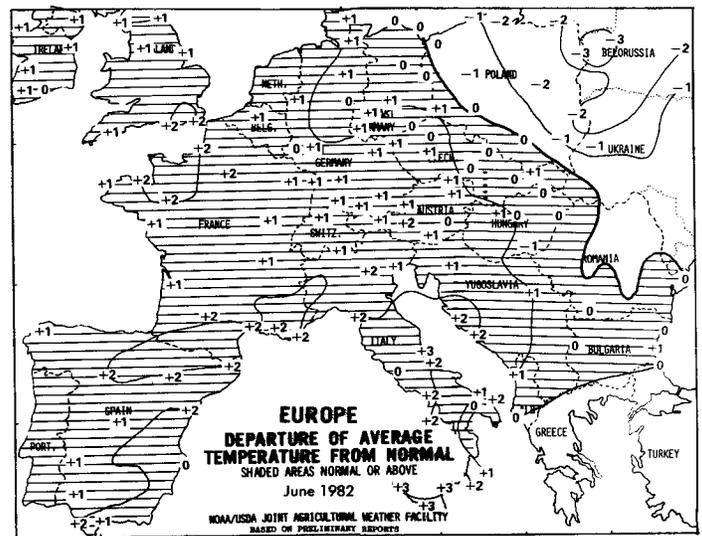
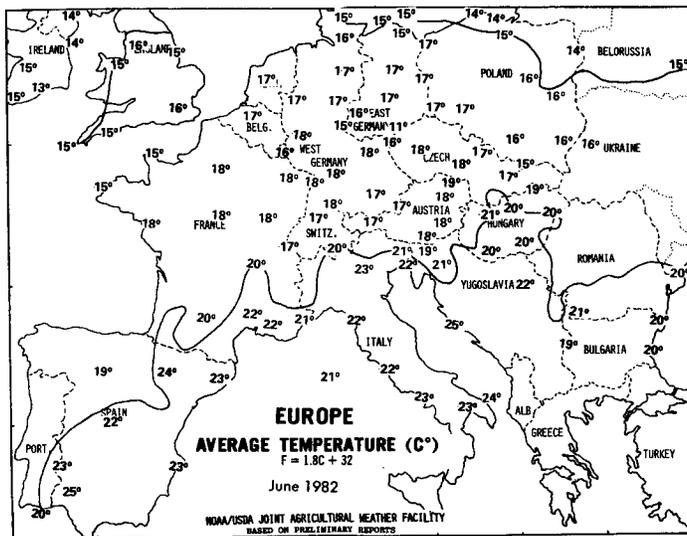
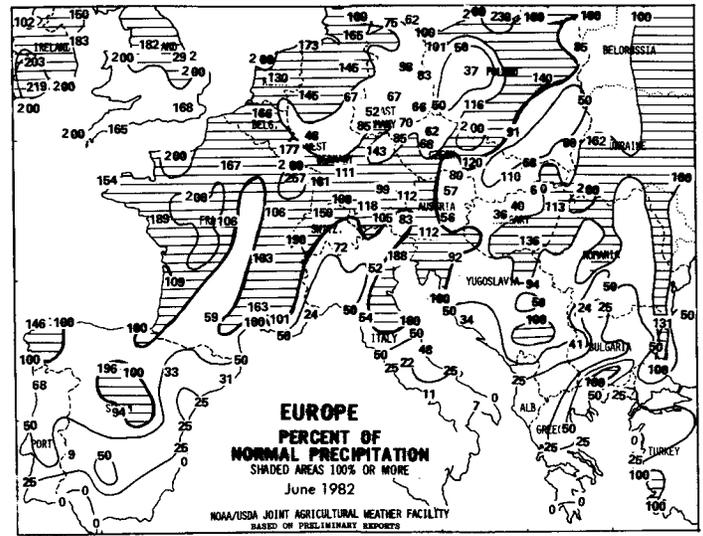
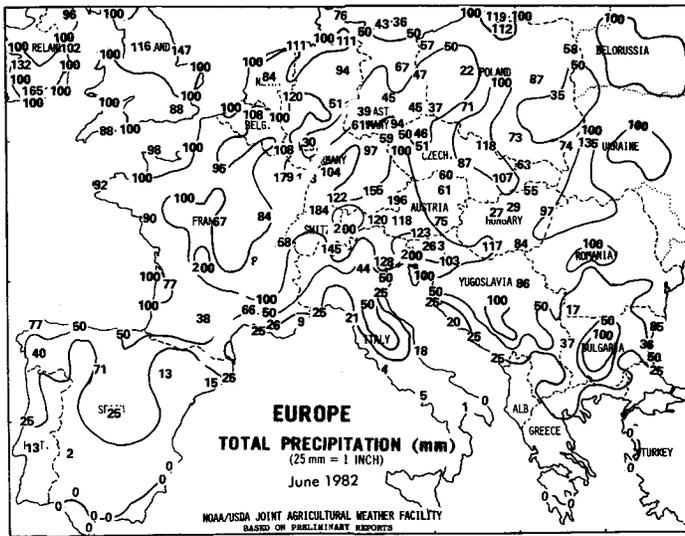
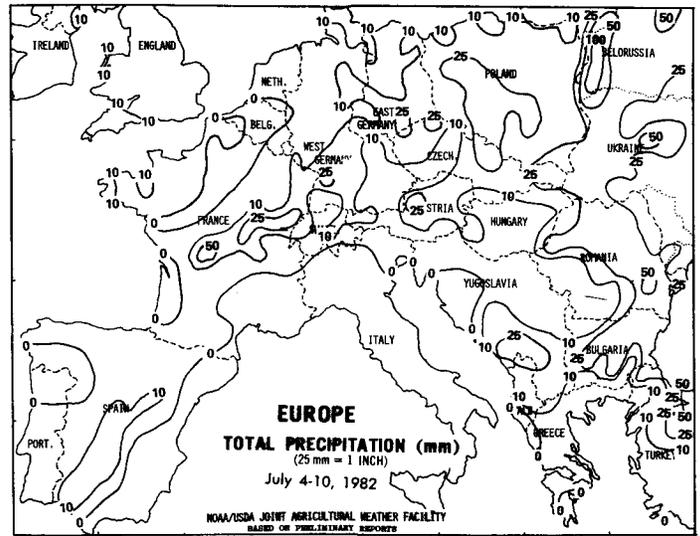
WESTERN USSR: Widespread showers maintained abundant moisture supplies in Belorussia and adjacent areas where June rainfall was also above average. The moisture favored spring grains which are reportedly heading in these areas. Locally heavy showers also occurred in the Ukraine, eastern portions of the Central Region, and the Black Soils. Excessive moisture may have caused some crop lodging and early harvest delays in these areas. Scattered showers also fell over North Caucasus and the western Volga Valley where June rainfall was generally below average. Winter grain harvesting is underway in these areas. Unseasonably cool weather, which slowed the development of corn and sunflowers, continued into early July.

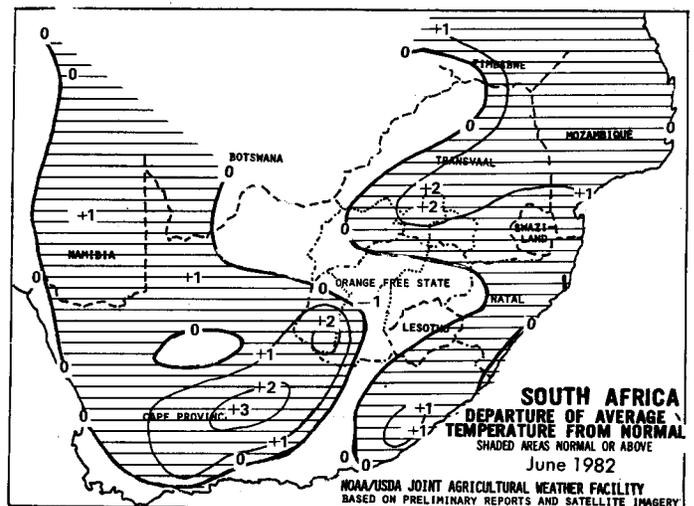
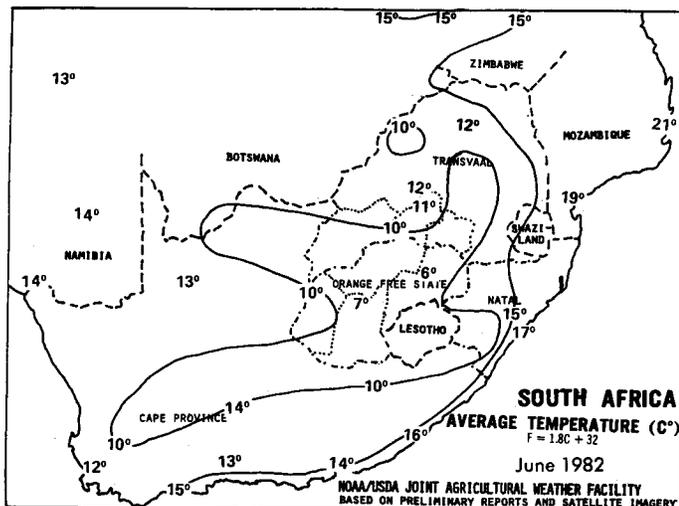
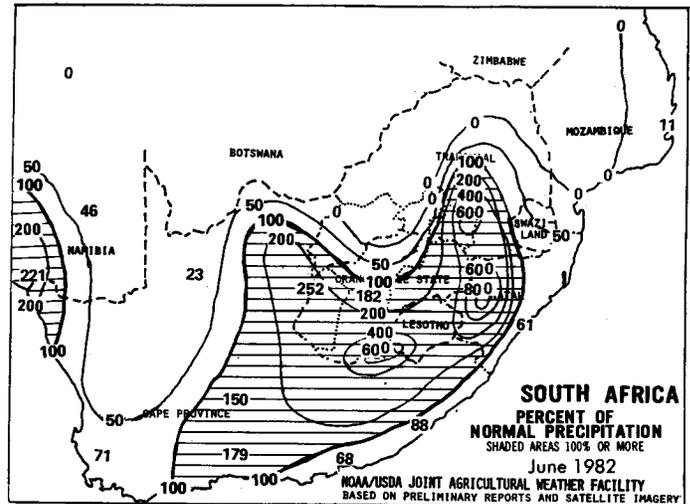
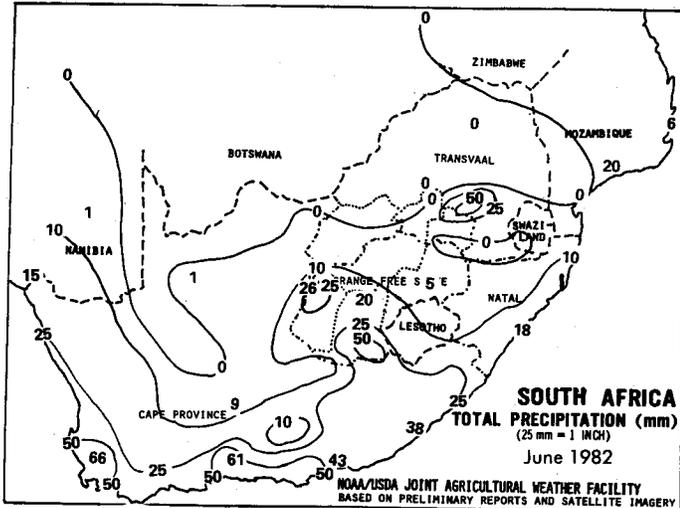
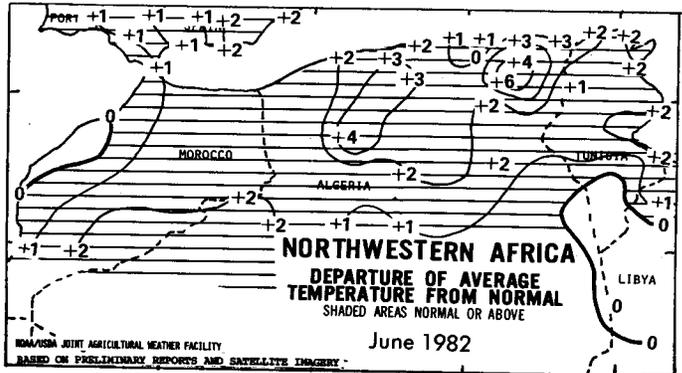
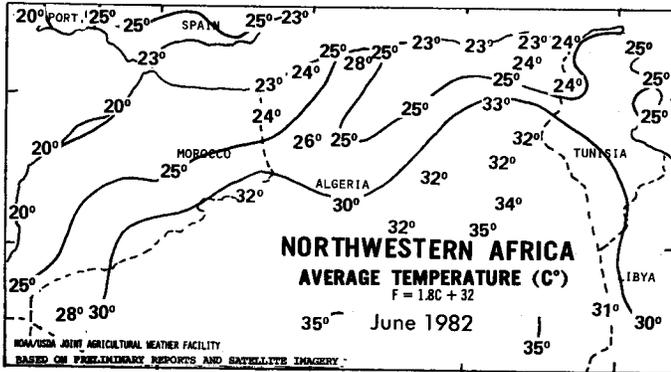
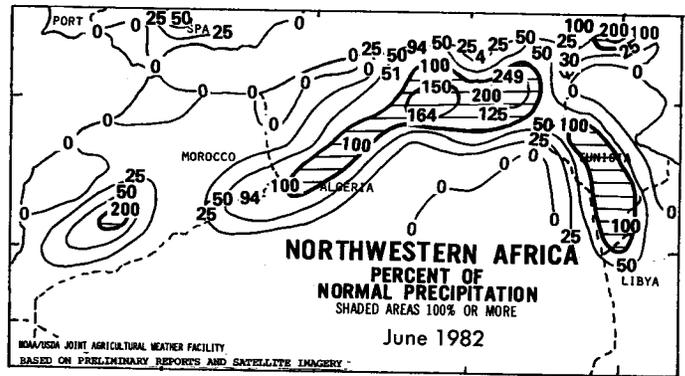
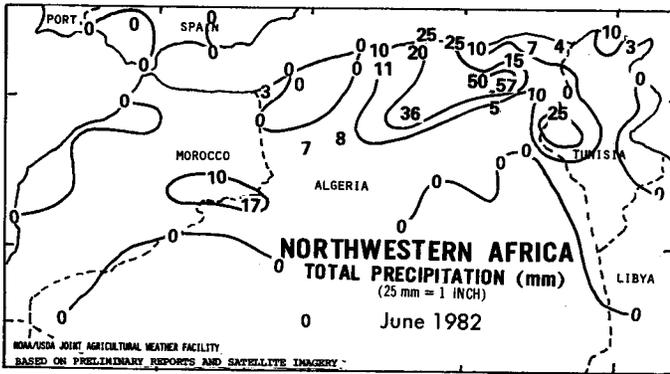


NEW LANDS: Mostly dry weather continued in the spring grain area west of a line from Omsk and Tselinograd eastward through Pavlodar and Semipalatinsk. Below-average precipitation and unseasonably warm weather in these areas during June produced unfavorable conditions for crop growth. Spring grains are now in the critical heading stage in many areas, and yield prospects will be affected by the adverse weather. In contrast, western crop areas of Kustanay and Sverdlovsk, which received above average rainfall in June, benefited from light shower activity during the week. Much of June's rain fell early in the month, followed by hot, dry weather. The recent showers temporarily improved the condition of stressed crops in western areas, but unseasonably warm weather has also returned to the region.

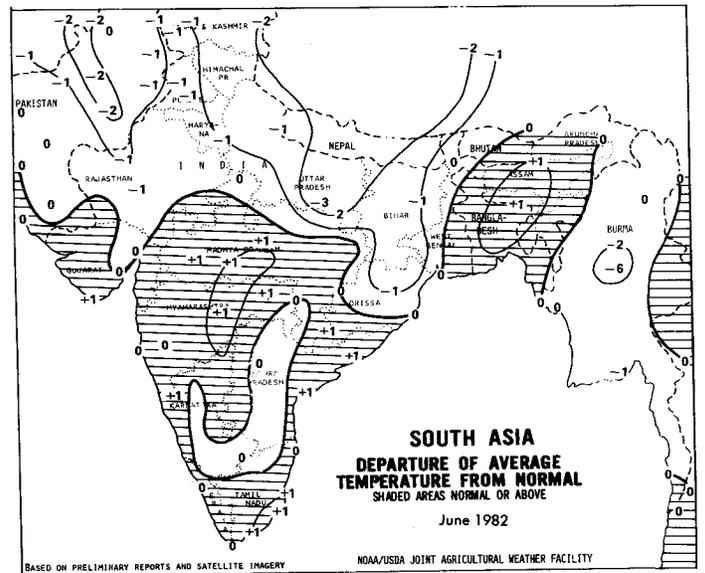
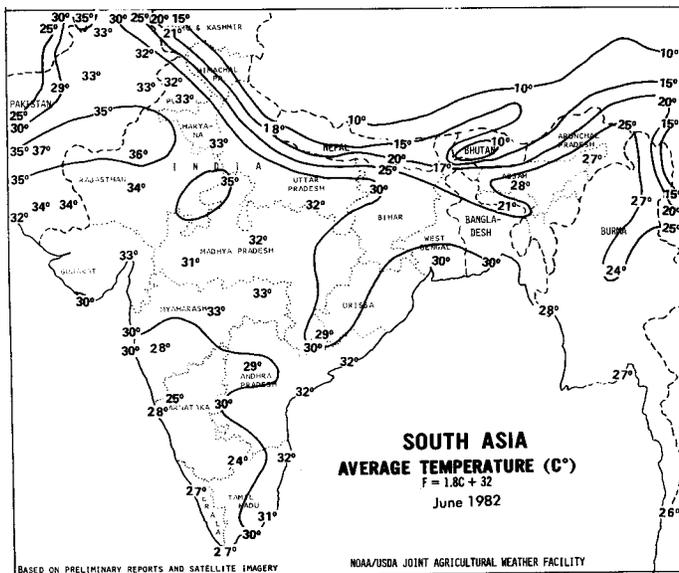
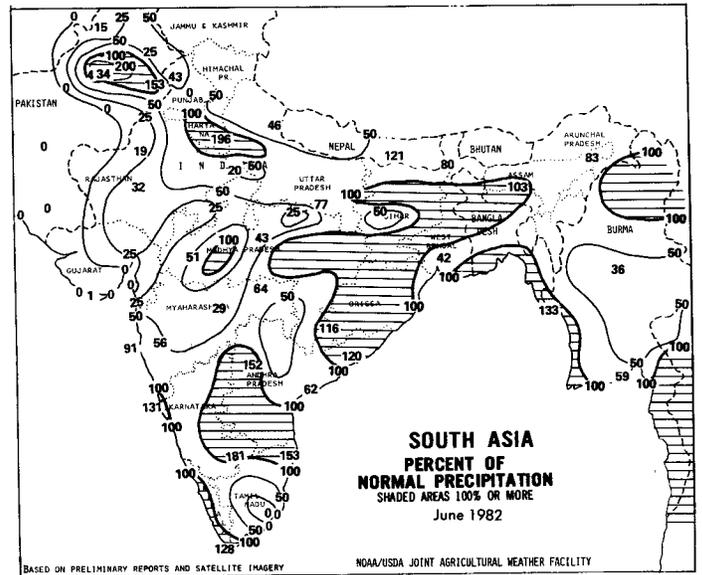
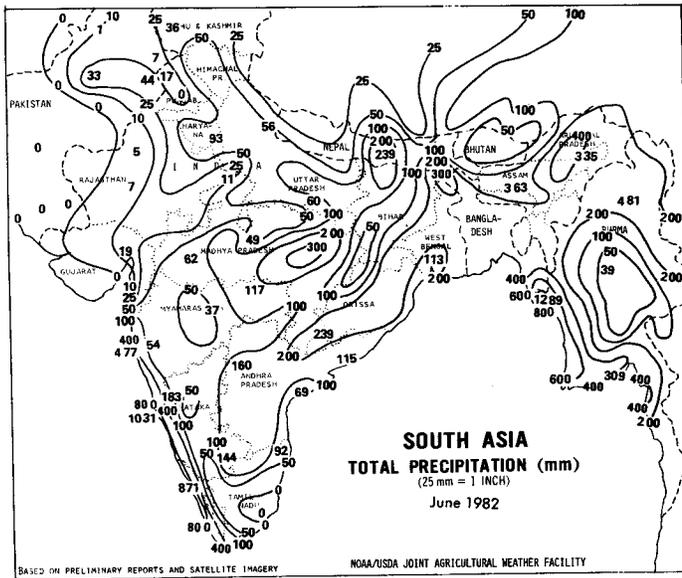
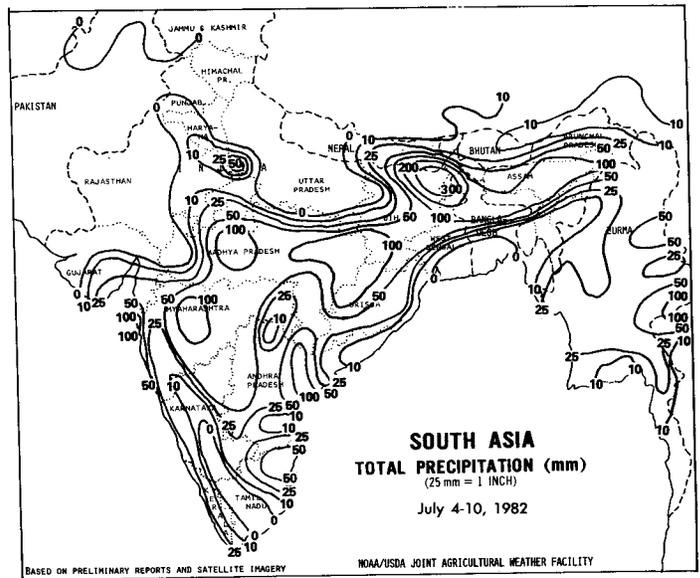


EUROPE: Showers fell in central France, benefiting corn which is entering the reproductive stage of development. The remainder of France, England, and West Germany were mostly dry following a seasonal to above-average rainfall pattern in June. Moisture supplies should be adequate in these areas for crops in the heading to filling stages. Crop areas of East Germany and Poland received beneficial moisture during the week after June's below-average rainfall. In the southeast, widespread showers aided the growth of spring crops in Yugoslavia, Romania, and Bulgaria. Hot, dry weather in these crop areas during June stressed winter grains in the filling period. The winter wheat harvest is advancing from the Mediterranean area northward into Central Europe.

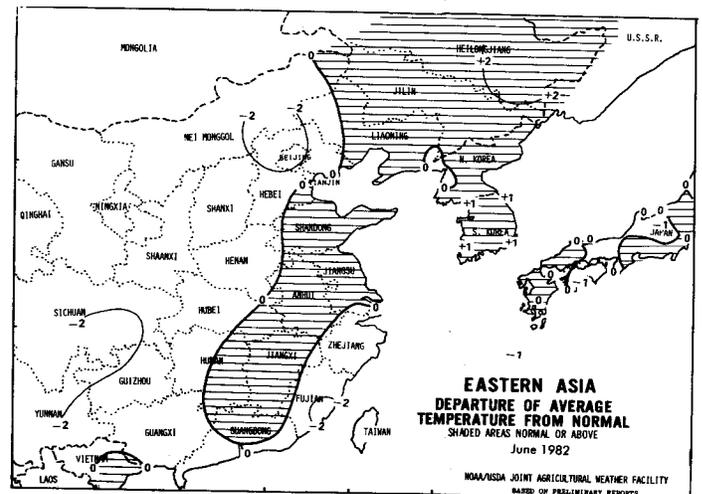
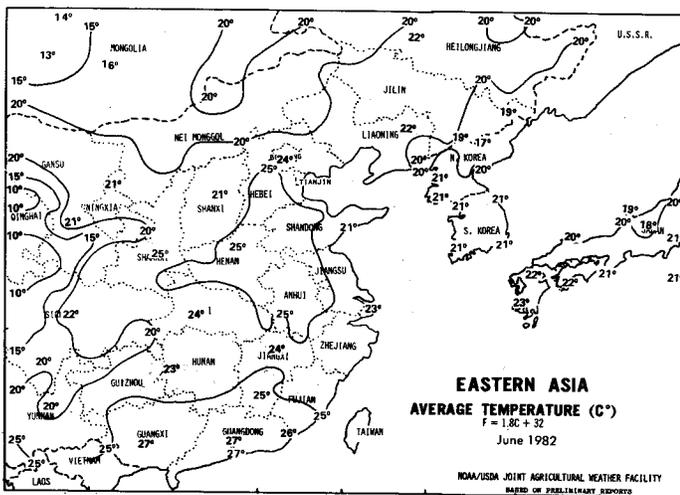
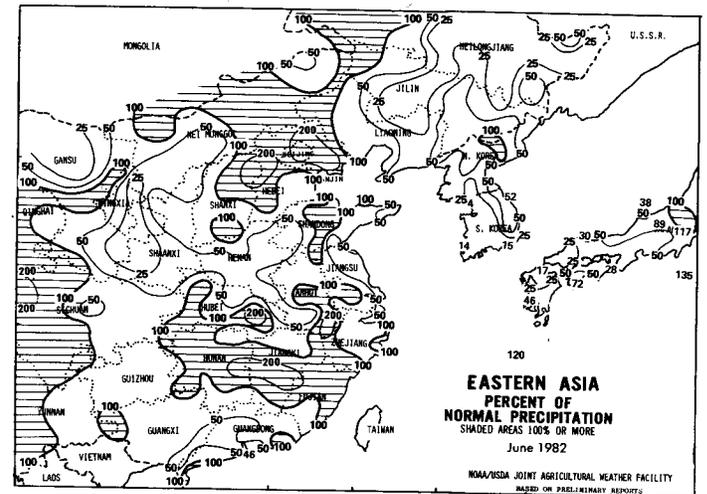
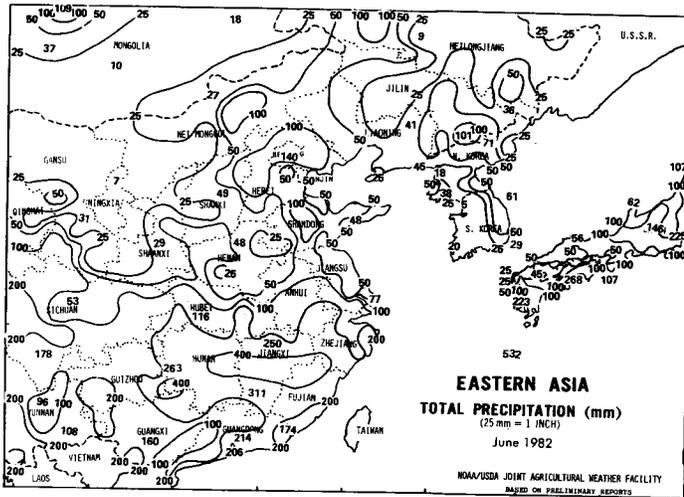
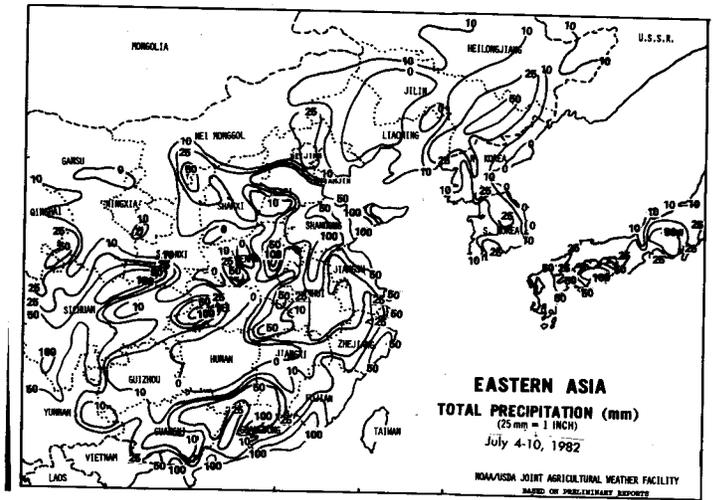


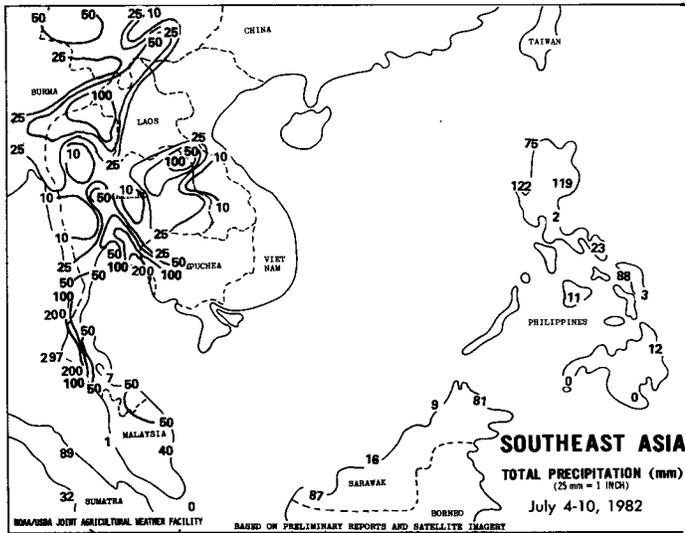


SOUTH ASIA: Rainfall increased over the southeastern two-thirds of India. The dry spell, which began around June 25, lasted about 10 days. Given the abundant rains preceding the dry spell, crops in most of this part of the country likely escaped significant damage. Areas to the northwest had continued dry weather, however. Monsoon rains pushed into southeastern Gujarat, but conditions over most of the state remained too dry for planting. Similarly, crops in most of Uttar Pradesh and areas to the northwest have been relying on irrigation for sustenance; the monsoon's arrival there is now 2 to 3 weeks late. Pakistan had dry weather also. In Bangladesh, dry weather dominated the southern half of the country, but above-normal rainfall in previous recent weeks had given the region ample soil moisture supplies.

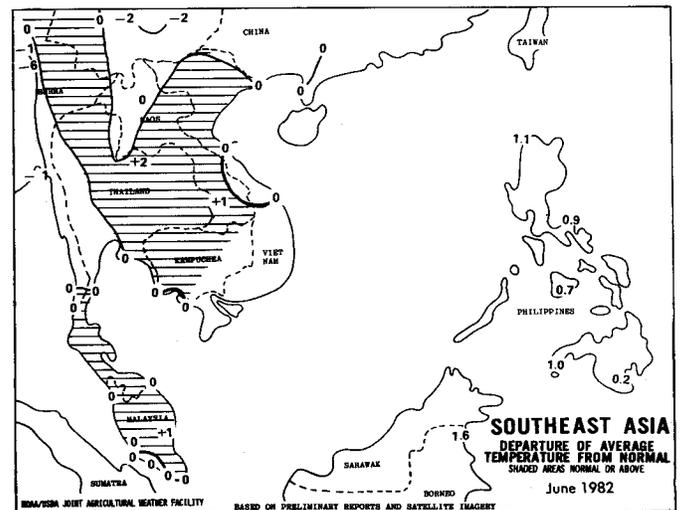
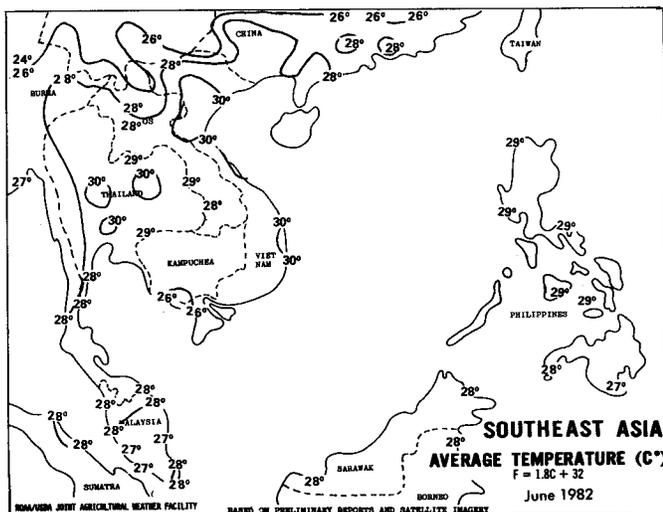
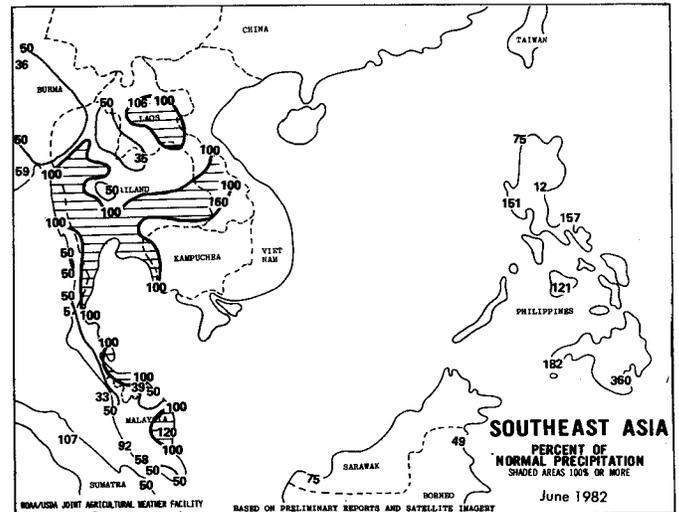
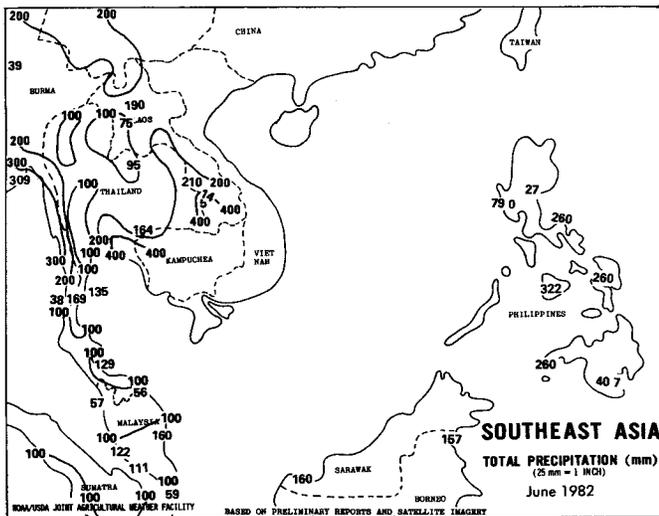


EASTERN ASIA: A vigorous frontal system dropped above-normal rainfall across many northern parts of the North China Plain late in the week. The moisture improved growing conditions in many areas where June rainfall had been below normal. Many southerly portions of the Plain had near-normal rainfall, but dry areas have persisted there since the beginning of the rainy season. Flood-ravaged areas south of the Yangtze River benefited from a second week of relatively dry weather. Persistent, above-normal rains disrupted the harvesting of early rice along the south coast. Northeastern China had continued hot, dry weather, with rains being limited to the hills east of the crop area. Major crop areas there were much drier than normal during June, with temperatures averaging above normal. In South Korea, light rainfall improved growing conditions somewhat, but much more is needed very soon. Deficient June rainfall necessitated heavy use of limited irrigation supplies, and conditions were becoming serious.

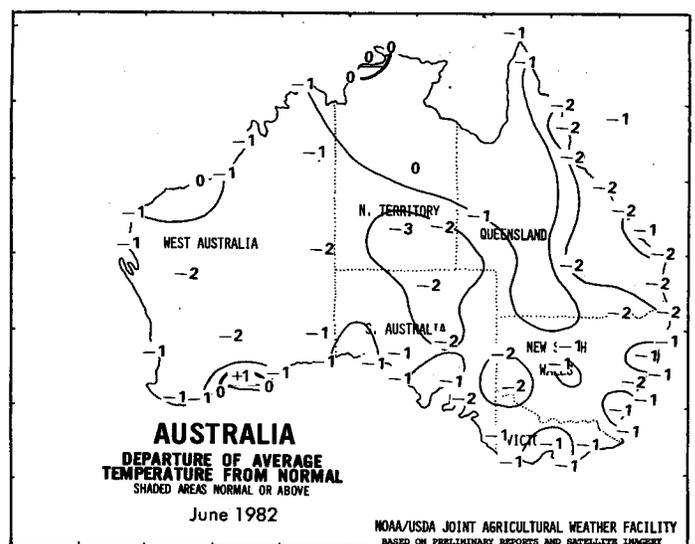
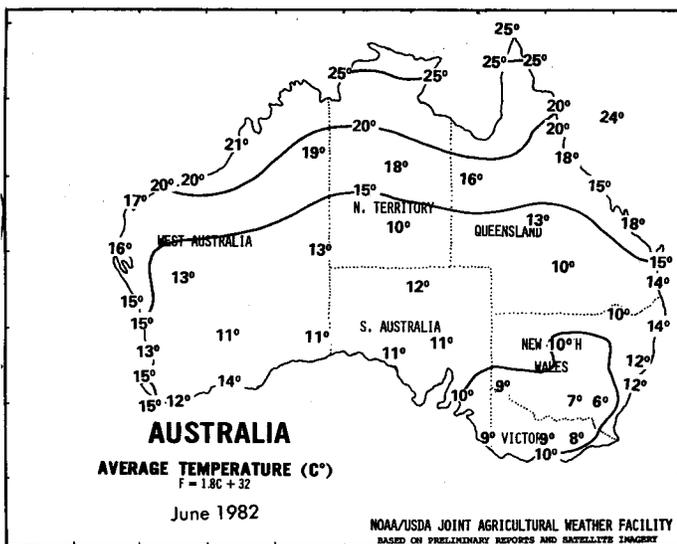
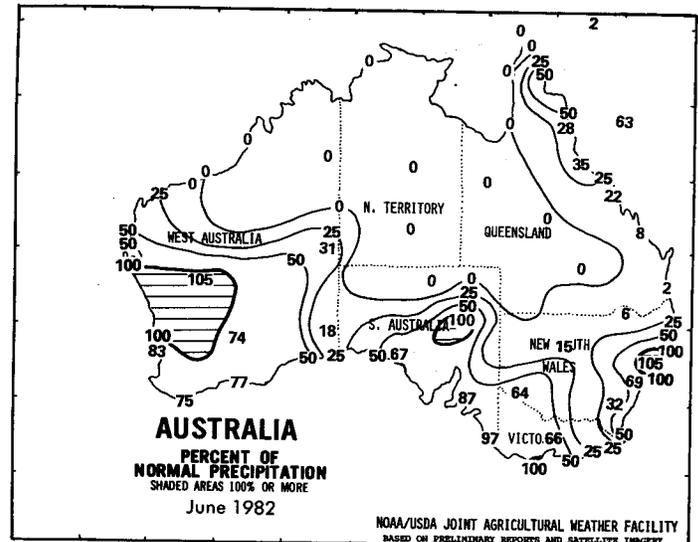
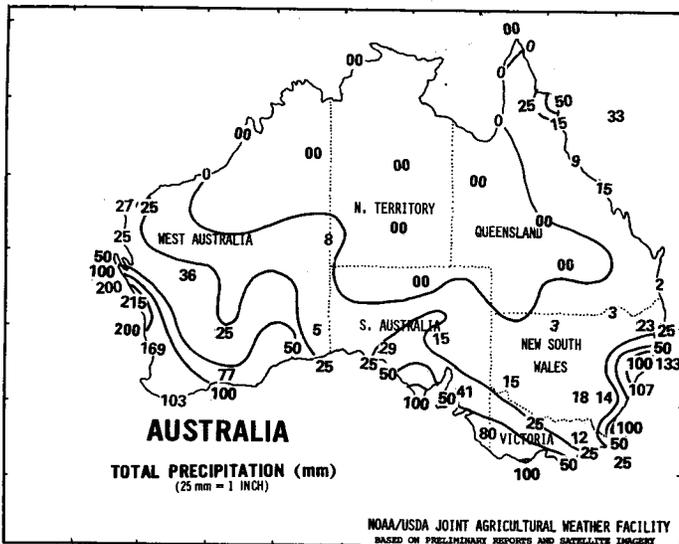
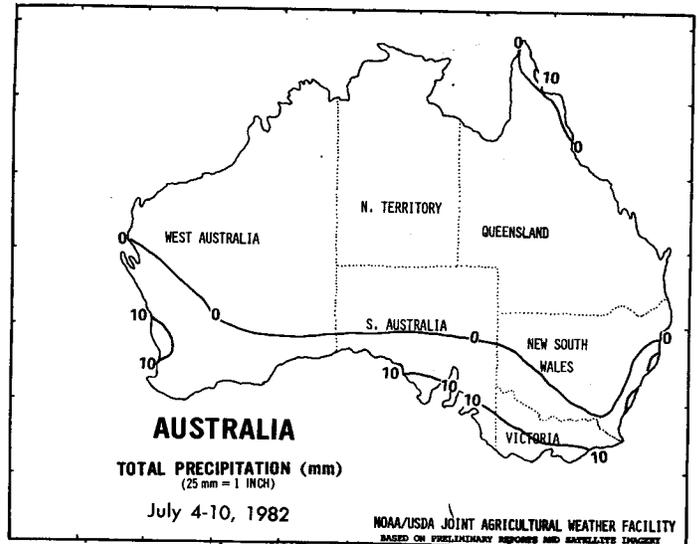




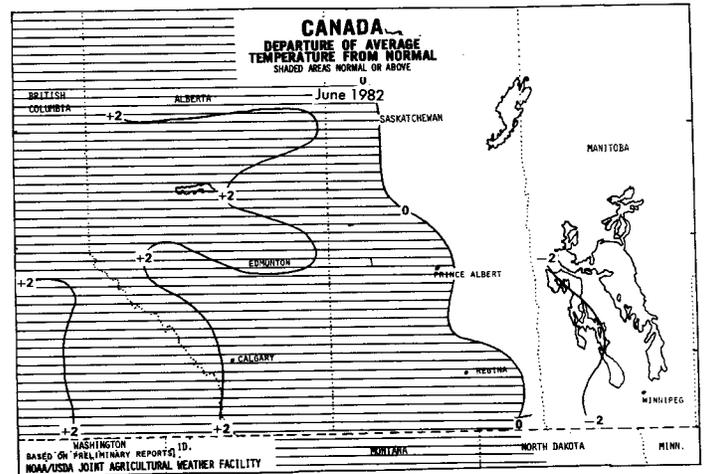
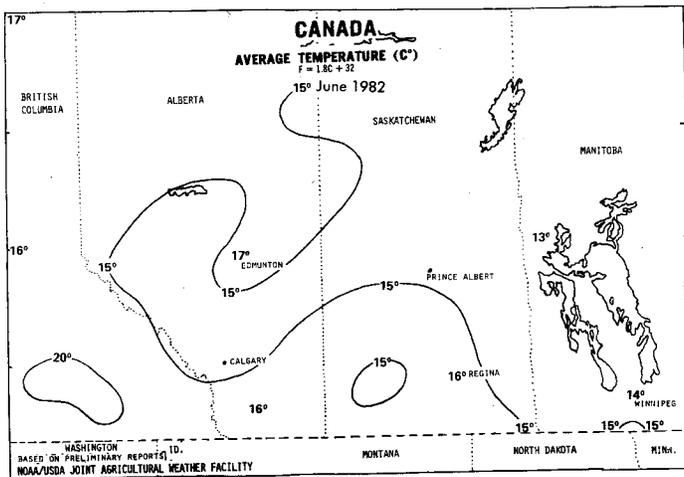
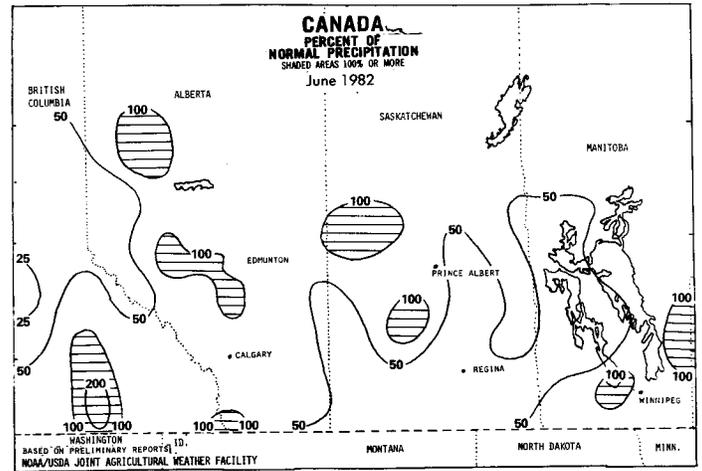
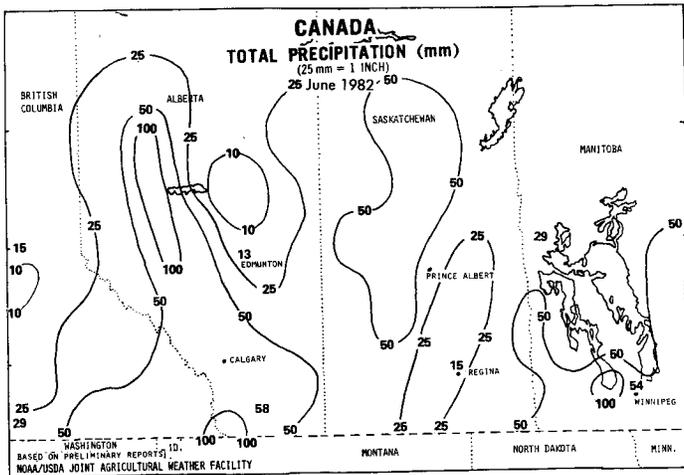
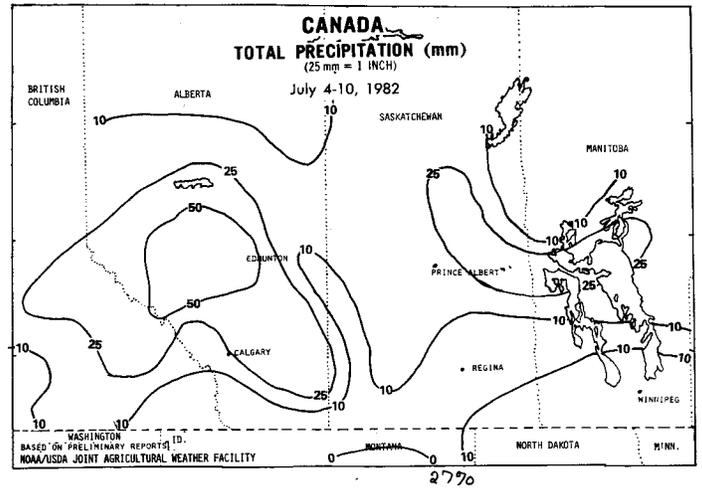
SOUTHEAST ASIA: Rainfall remained variable over Thailand for the fourth consecutive week. Generous rains increased reservoir levels in the north and improved rice crop prospects in northern parts of the east. June rainfall in both of these areas was below normal. Another area on the upper Central Plains which had become dry during June had generous rainfall, but some important corn areas just to the east received very little. Most corn areas had adequate moisture. Normally wet weather continued in the southeast of Bangkok. Satellite imagery indicated that rainfall in Kampuchea and Vietnam was about the same as in Thailand.



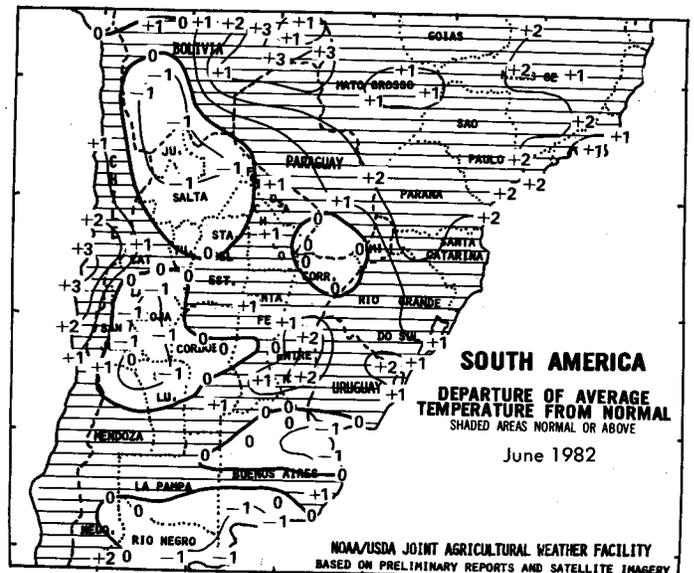
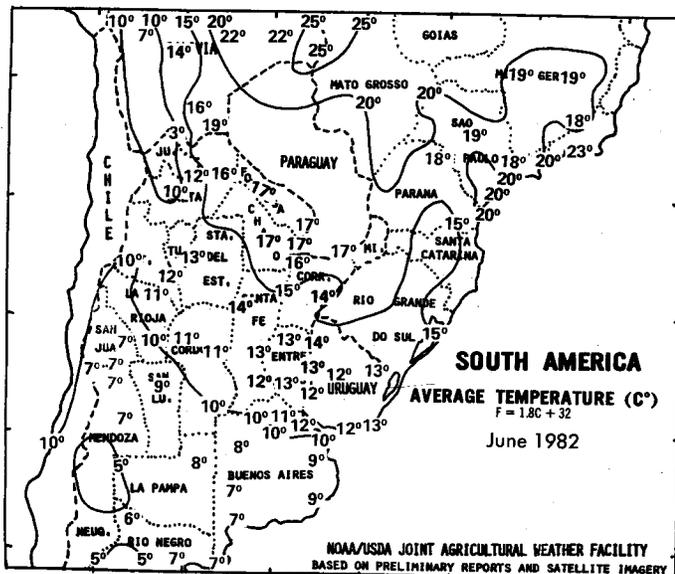
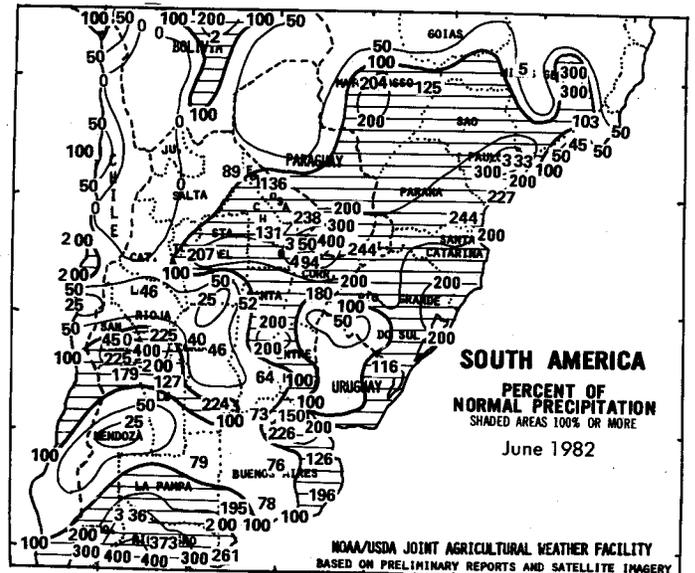
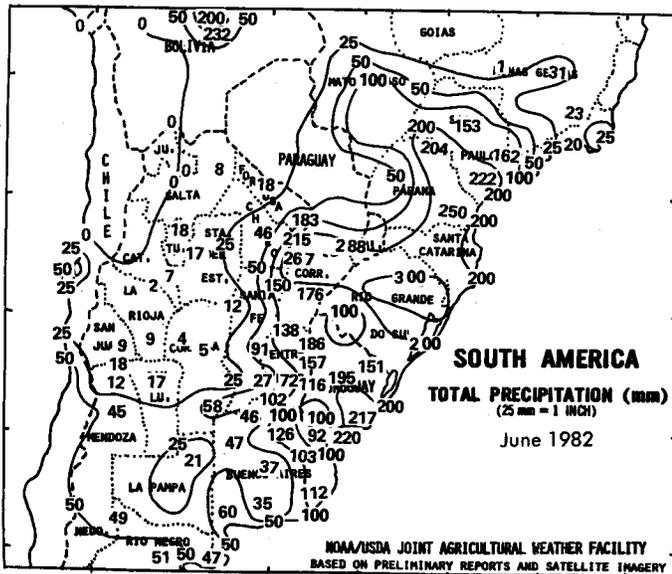
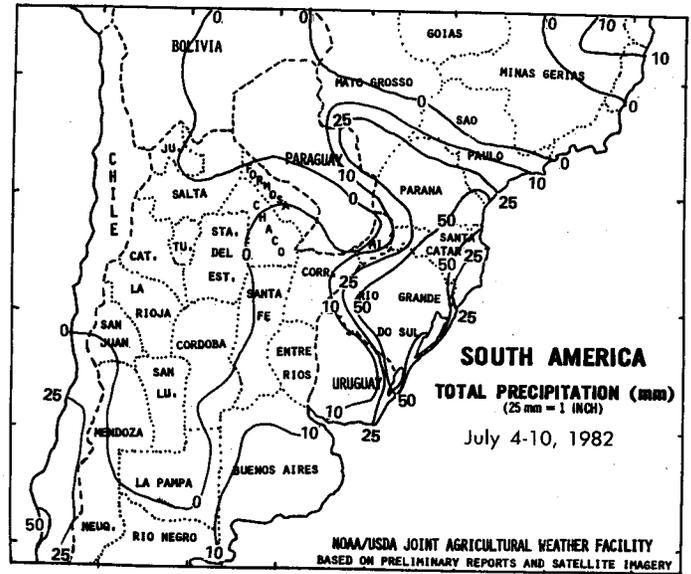
AUSTRALIA: The well-below average rainfall pattern, yielding less than 25 percent of normal June rainfall in many crop areas of New South Wales and Queensland, continued into early July. Persistent dryness continued to impede wheat planting and early crop development. Thus, crop yield prospects are deteriorating rapidly and substantial rains are needed soon to relieve drought conditions. In Western Australia, timely rains in June improved planting conditions for wheat but rainfall has diminished in recent weeks. Although sufficient moisture is available at present in western crop areas, a near-normal rainy season will be needed to sustain proper crop development later in the growing season.



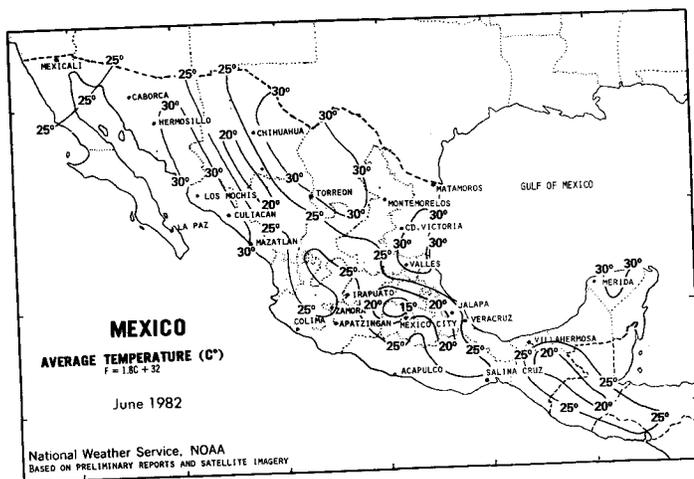
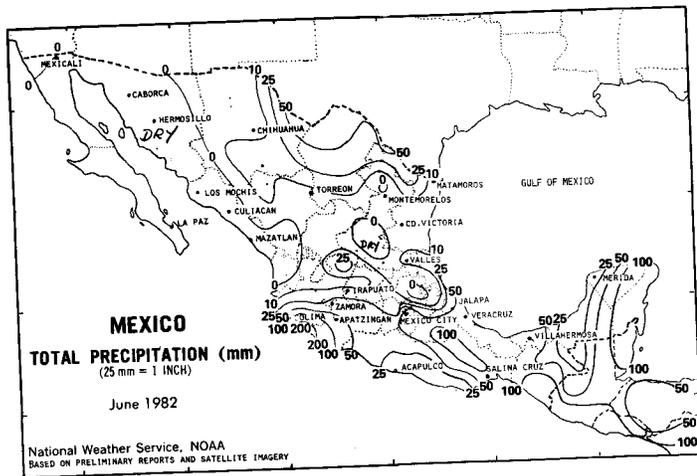
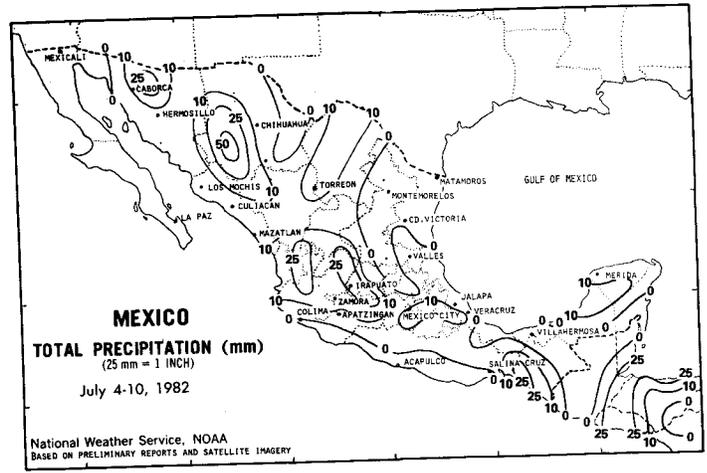
CANADA: Generally favorable weather has aided crop growth throughout most of the Prairie Provinces. Timely rains fell during the past week over numerous wheat areas, which will benefit crop development during the heading period. Although June rainfall was less than the long-term average in many areas, frequent showers produced adequate moisture for growth except in southeastern Saskatchewan where dryness has stressed crops. Rain is needed in this area to meet the high moisture demands during heading. Otherwise, crops are rated in good to excellent condition as they advance from late vegetative growth into the reproductive period. Mild weather in recent weeks has promoted vigorous growth, but development still lags last year's pace.



SOUTH AMERICA: Widespread rain fell over southern Brazil, with the heaviest weekly totals occurring in Rio Grande do Sul. Wet weather during June caused some delays in wheat planting in Brazil's southern crop areas and interfered with the coffee harvest in Parana and Sao Paulo. The recent rains in Rio Grande do Sul may have been detrimental to newly-sown wheat. Temperatures remained well above freezing in the coffee-producing regions of Brazil. In Argentina, some shower activity benefited the wheat crop which is in a semidormant period of vegetative development. Significant rains will become more crucial later in the crop cycle when warmer weather induces vigorous growth.



MEXICO: Hot, dry conditions over the northeast since June were ideal for harvesting grain sorghum and early corn but stressed some citrus orchards. The sunny pattern, extending over the irrigated cotton and soybean fields of the north and northwest, allowed crops to progress well. Dryness over parts of the southern Plateau's cornbelt for most of the spring slowed early growth but tropical rains beginning to form over and spread out from nearby mountains are bringing some relief. The rainy season started slow during the early summer but intensified over most watersheds during the past week.



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210



National Weather Summary

(continued from front page)

FRIDAY...Widely scattered rainshowers and occasional thunderstorms covered the southeastern quarter of the Nation, but the heaviest concentration of thunderstorms and severe weather battered the area from the central Plains to the Mississippi River. Lighter storms dotted the eastern portion of the central and northern Rockies. Cool morning temperatures in the northern Plains and most of the area west of the Rockies gave way to much warmer readings in the area west of the Rockies.

SATURDAY...A low-pressure system spread showers and thunderstorms from the middle and upper Mississippi River Valley into the Great Lakes region and the Ohio River Valley. Scattered thunderstorms continued over the southeastern quarter of the Nation. A few isolated storms dotted the Plains and the eastern slopes of the central and southern Rockies. Some flooding caused by previous heavy rain continued in parts of the central Plains.

WEATHER OUTLOOK EXPANDED -- AVAILABLE FROM GPO

The Average Monthly Weather Outlook, formally reprinted in part in this bulletin, is being expanded to show contours of probability on the forecast charts and will carry the new title "Monthly and Seasonal Weather Outlook". Subscriptions are available from the Superintendent of Documents U. S. GPO, Washington, D.C. 20402 at \$31 for 24 issues per year.

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