

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

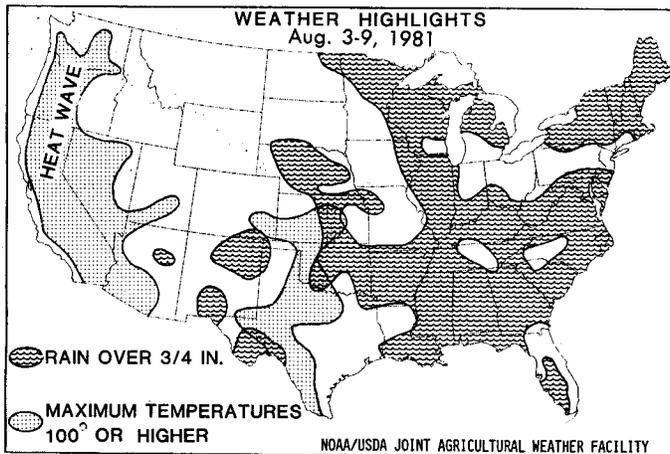
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WASHINGTON, D.C.

Aug. 11, 1981

National Weather Summary

August 3-9, 1981



HIGHLIGHTS: A severe heat wave in the West pushed high temperatures to record levels and was getting worse as the week ended. Temperatures in Washington and Oregon averaged 8 to 10° above normal for the week. Cooler weather enveloped the East. Rain showers covered the area east of the Rockies. Parts of Texas had little or no rain and only light amounts fell in any of the high Plains. Significant amounts of moisture fell in most of the East.

MONDAY...Thunderstorms were severe but widely scattered from northwestern Nebraska through the upper Mississippi Valley. Tornadoes, high winds, and hail damaged parts of the area late in the day. Thunderstorms were also scattered through the southern Rockies and from the lower Mississippi Valley to Florida. Showers covered the upper Ohio Valley, New England, and the east coast. Temperatures were hot across the south and into the central Plains but the warmest area was in the Southwest.

TUESDAY...Strong thunderstorms developed throughout the northern Plains above Kansas. Coverage was widespread but the most severe storms were in east central Nebraska. Some heavy storms occurred along the Louisiana coast and lesser storms were scattered eastward through Georgia and Florida. Showers and thundershowers covered most of New York and New England. The hot weather was creeping northward in the Plains and along the East Coast.

WEDNESDAY...Heavy thunderstorms moved into the upper Mississippi and Ohio Valleys. Some moderate amounts of rain fell in Illinois and Indiana where moisture was already adequate to surplus. Thundershowers again covered New York

and New England but rainfall was generally light. Some cooler air pushed southward in the Plains but hot weather reached into Kansas. The mercury climbed to the high nineties along the East Coast as far north as eastern Maryland and Virginia.

THURSDAY...Violent thunderstorms broke out in the central Plains as cooler air displaced hot, muggy air. Locally heavy rain from northern Texas to southern Nebraska was accompanied by high wind and occasional hail. Lesser storms reached eastward along and north of the cool front from Arkansas to North Carolina. A low pressure system in southern Canada spread showers and thunderstorms throughout the Great Lakes region.

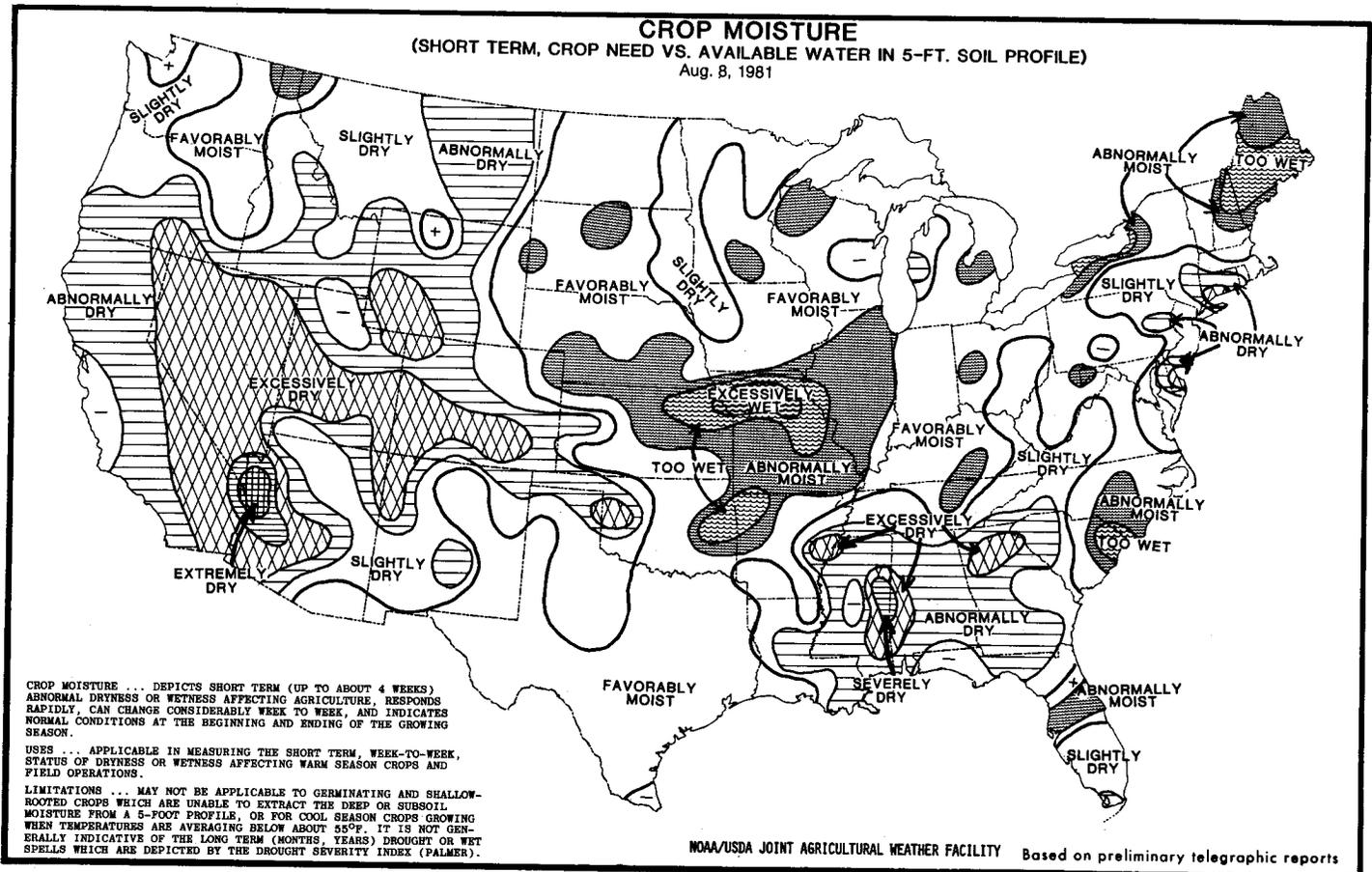
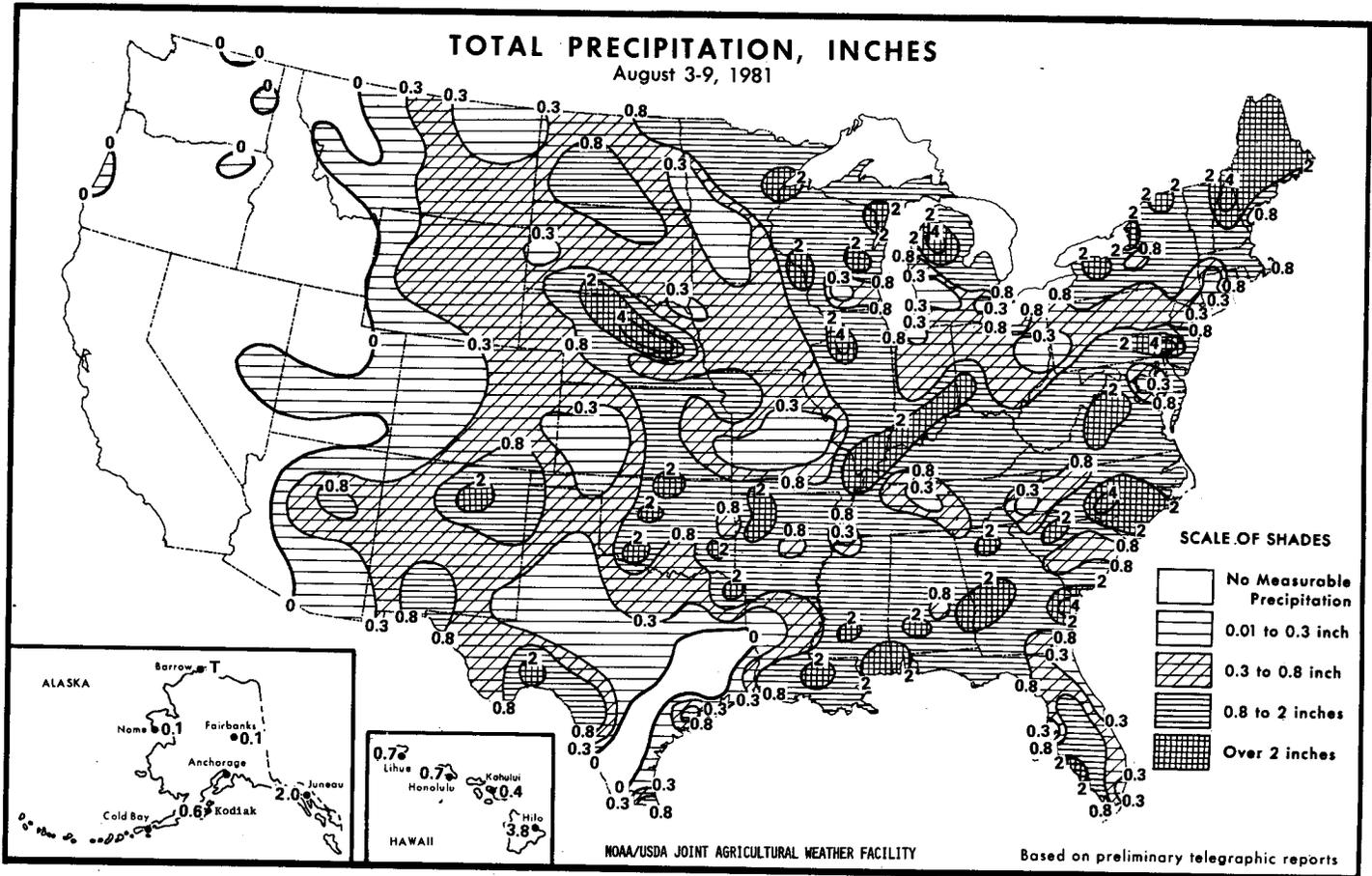
FRIDAY...A complex frontal system caused showers and thunderstorms from Arizona to Louisiana and in the entire area east of the Mississippi River. Some heavy amounts of rain fell in the dry parts of the Southeast. Severe thunderstorms spawned a tornado in Pennsylvania and hail in Michigan. Most of the far West, except the coastal area, had temperatures from the mid-nineties to as high as 121° at Red Bluff, California.

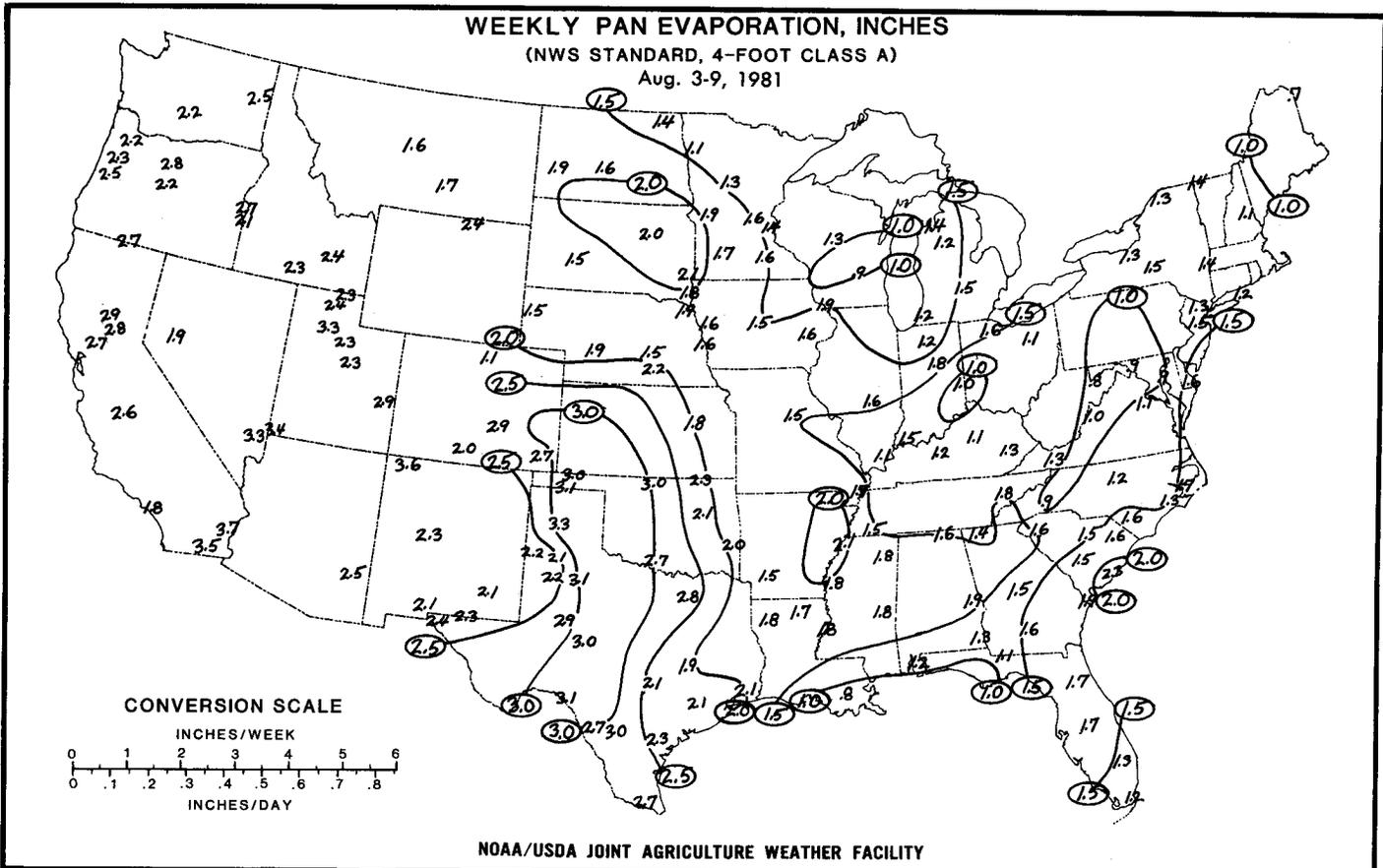
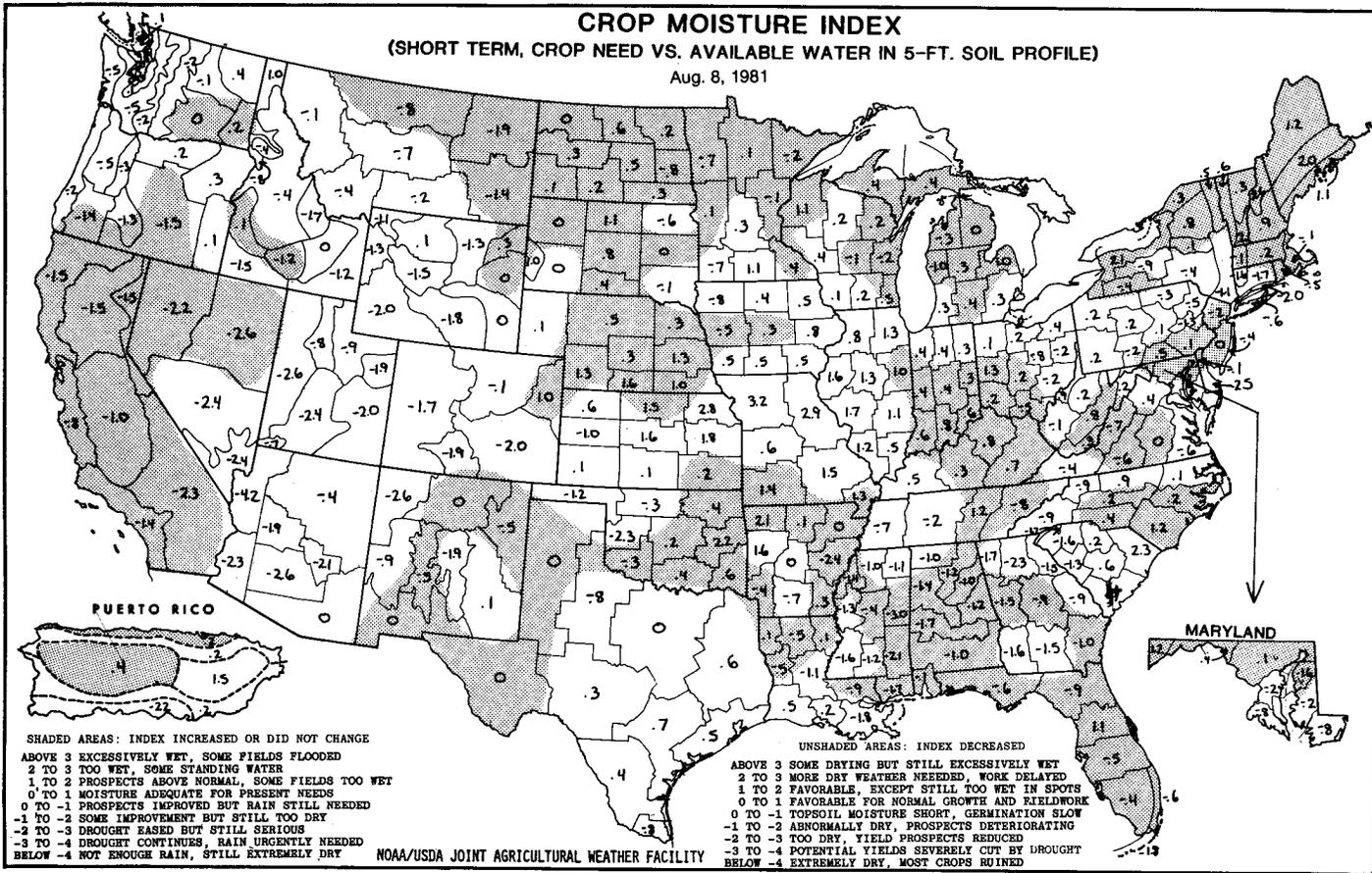
SATURDAY...The heat wave persisted throughout the West. Temperatures rose to over 100° as far north as central Washington and eastward through the Plateau. The complex frontal system was still moving slowly eastward. Showers and thunderstorms occurred over the entire area east of the Appalachian range. Light showers and some thundershowers were reported throughout the Rockies and over the northern Plains.

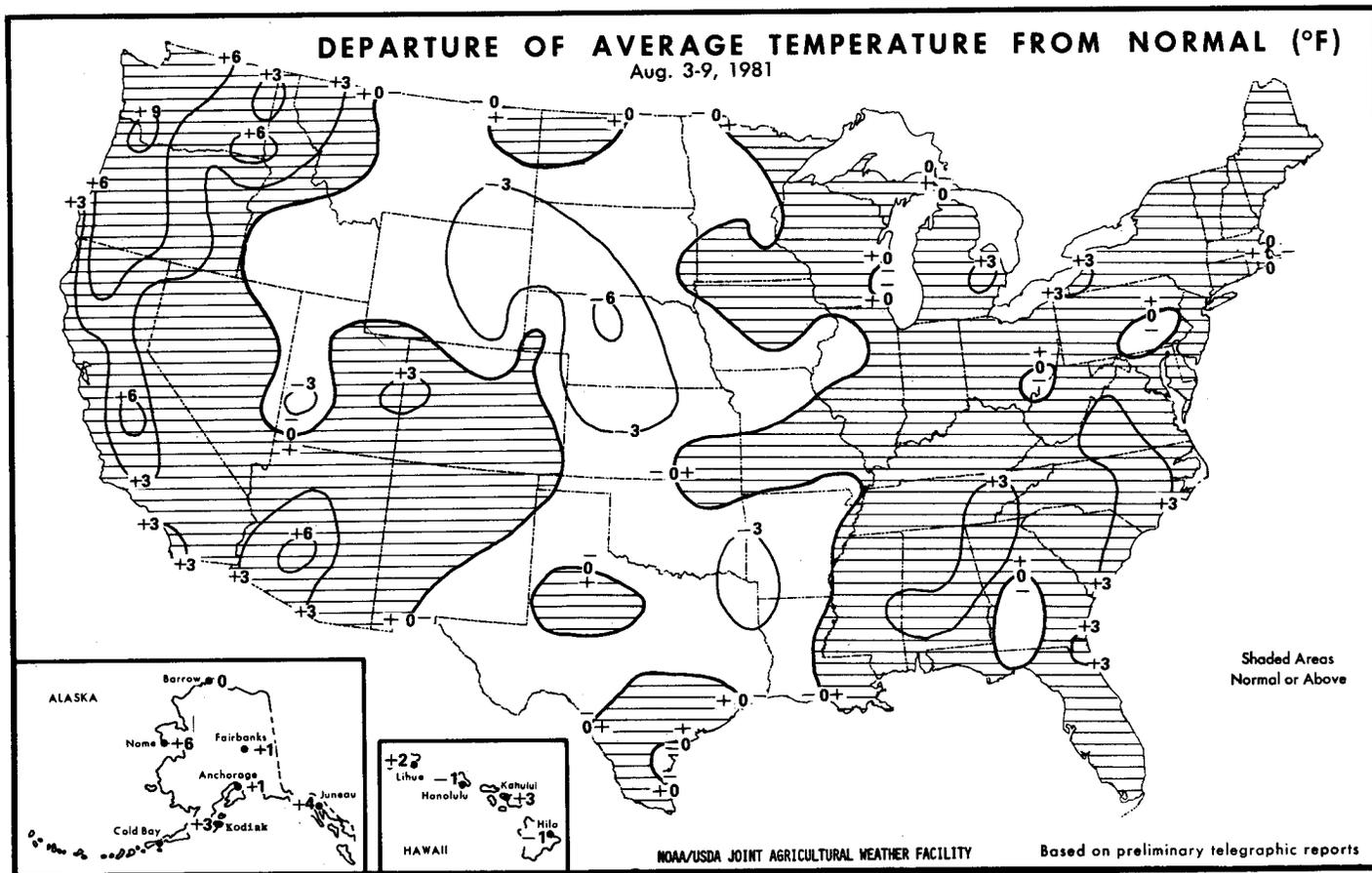
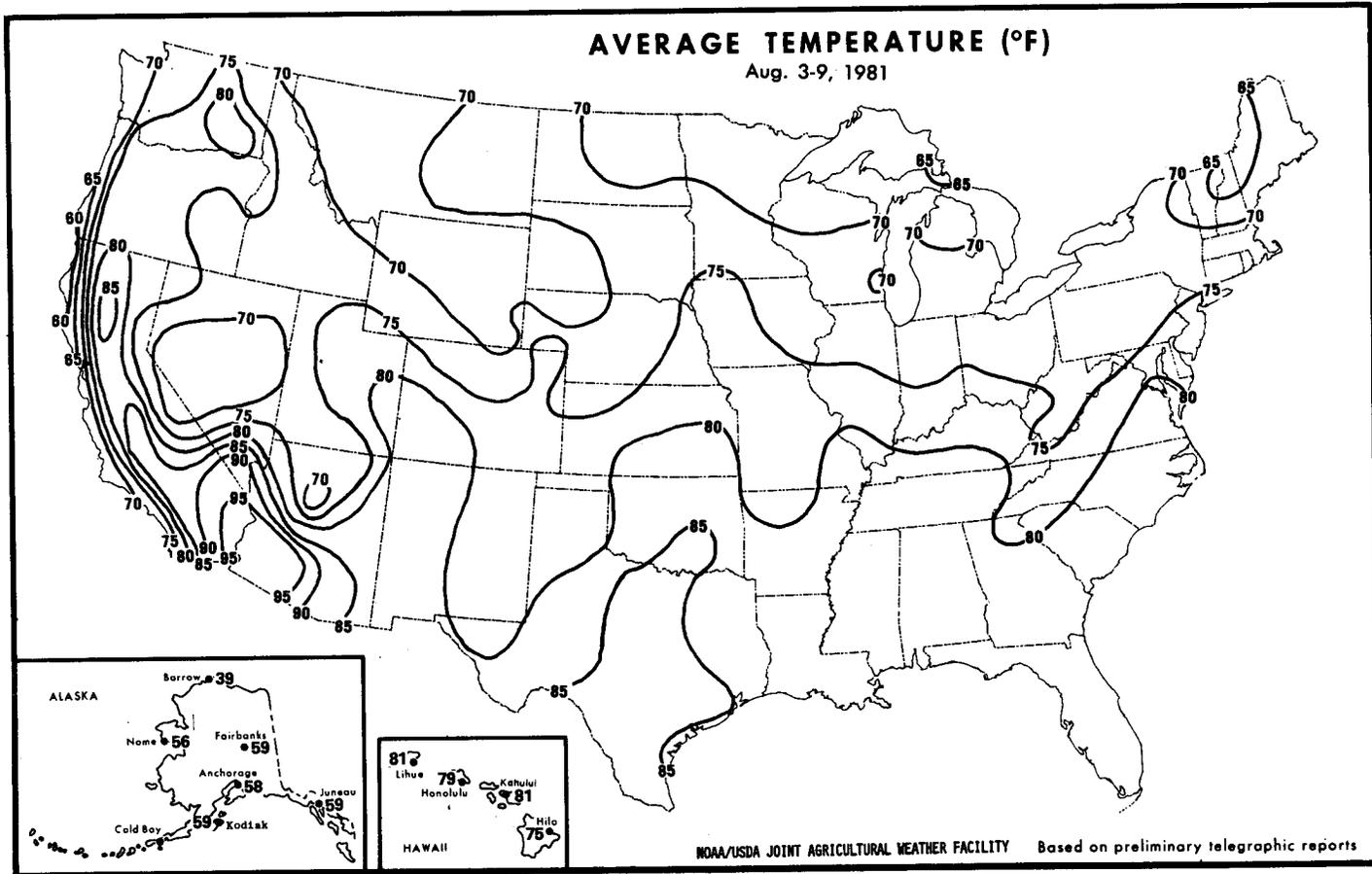
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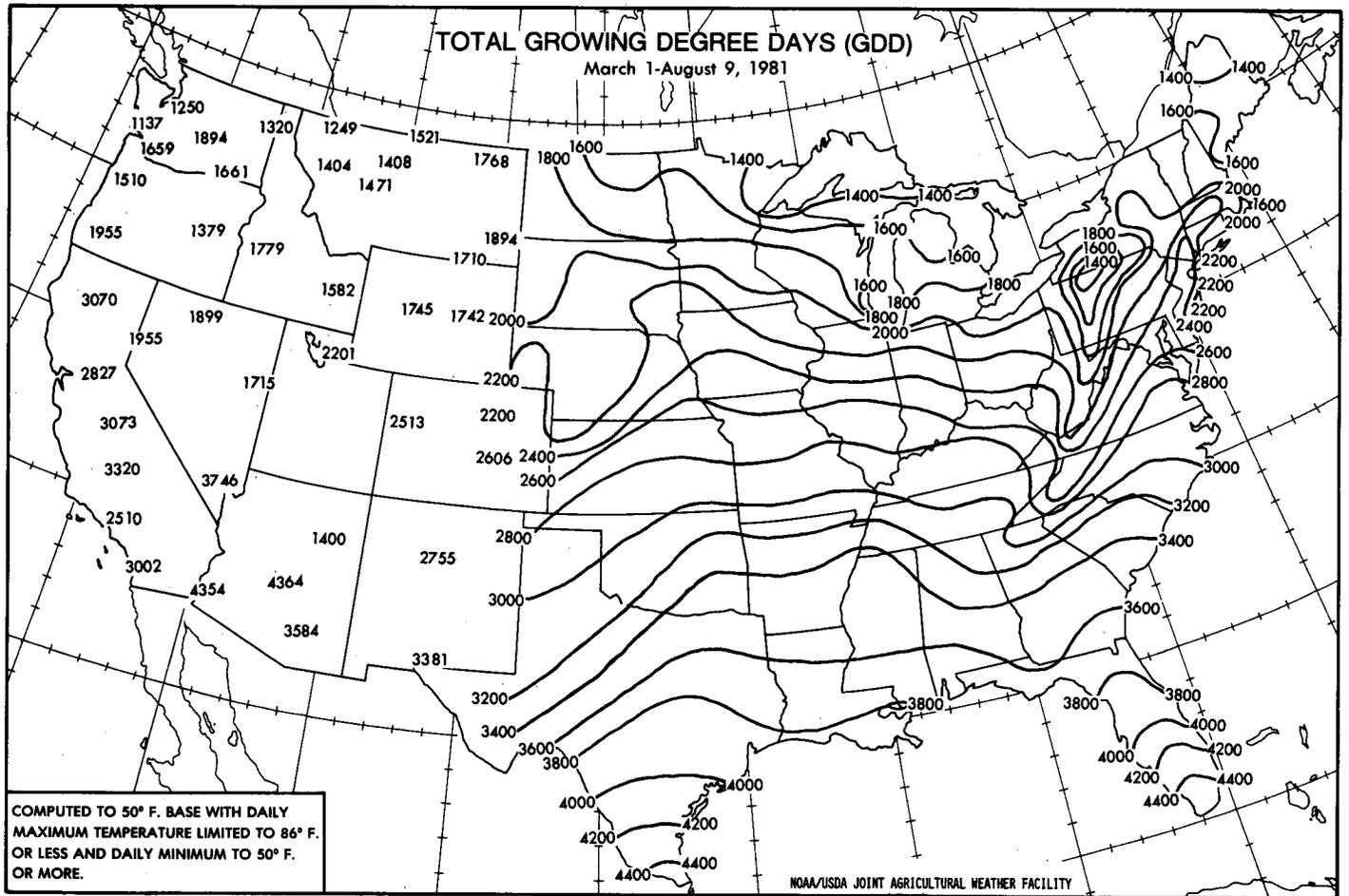
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Weather Data for the Week Ending Aug. 9, 1981

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE June 1	PCT. NORMAL SINCE June 1	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	93	71	97	65	82	2	1.2	.2	.8	7.6	72	26.0	74	91	48	6	0	3	1
MOBILE	90	74	93	73	82	0	2.6	1.0	1.5	16.0	92	42.5	96	96	60	5	0	4	2
MONTGOMERY	94	74	97	69	84	3	.7	.2	.7	7.8	76	30.7	94	92	51	6	0	1	1
AK ANCHORAGE	64	52	69	51	58	1	1.0	.5	.8	6.5	171	9.6	139	89	59	0	0	6	1
BARROW	45	32	61	27	39	0	T	.3	T	2.2	138	--	--	99	73	0	5	0	0
FAIRBANKS	71	47	75	43	59	1	.1	.5	T	4.5	110	6.0	92	81	37	0	0	2	0
JUNEAU	67	52	76	47	59	4	2.0	.9	.9	7.6	84	24.0	91	94	65	0	0	3	2
KODIAK	65	53	71	48	59	3	.6	.3	.3	4.8	55	41.4	134	97	67	0	0	3	0
NOME	66	47	78	38	56	6	.1	.7	.1	4.2	95	9.6	117	70	47	0	0	1	0
AZ FLAGSTAFF	85	53	90	50	69	4	.6	.0	.6	5.7	143	14.5	129	78	27	1	0	2	1
PHOENIX	107	86	108	83	96	6	T	.3	T	1.2	100	4.3	119	44	18	7	0	1	0
TUCSON	99	75	100	73	87	2	.2	.3	.2	6.6	200	11.6	204	65	22	7	0	1	0
WINSLOW	97	63	101	58	80	2	1.0	.7	1.0	3.5	167	5.6	122	--	--	7	0	1	0
YUMA	109	80	111	74	95	1	0	.1	0	0	0	1.1	61	46	19	7	0	0	0
AR FORT SMITH	91	70	95	62	80	-3	.3	.3	.3	11.9	149	27.8	101	96	50	3	0	3	0
LITTLE ROCK	92	72	99	66	82	0	.5	.1	.4	8.7	121	31.3	100	87	51	4	0	2	0
CA BAKERSFIELD	102	73	112	65	88	5	0	0	0	0	0	4.4	110	51	18	7	0	0	0
EUREKA	61	53	63	51	57	0	0	0	0	0	0	7.5	107	70	17	7	0	0	0
FRESNO	104	66	111	60	85	6	0	0	0	T	0	6.6	84	82	59	0	0	0	0
LOS ANGELES	77	64	78	62	71	1	0	0	0	T	0	119	66	17	7	0	0	0	0
RED BLUFF	106	69	121	64	88	6	0	0	0	T	0	16.3	119	66	17	7	0	0	0
SAN DIEGO	80	70	82	68	75	3	0	0	0	T	0	8.5	142	83	63	0	0	0	0
SAN FRANCISCO	72	53	78	50	62	0	0	0	0	T	0	12.2	99	89	50	0	0	0	0
STOCKTON	100	61	108	56	81	5	0	0	0	0	0	9.2	102	74	21	6	0	0	0
CO DENVER	85	61	98	54	73	0	.3	0	.3	2.0	49	9.8	90	69	29	3	0	1	0
GRAND JUNCTION	98	66	99	60	82	4	T	.2	T	.6	46	4.5	105	33	13	7	0	1	0
PUEBLO	90	65	100	61	77	1	.8	.3	.7	2.4	59	4.7	54	85	35	3	0	4	1
CT BRIDGEPORT	83	66	88	61	74	0	.1	.8	.1	6.6	92	17.6	76	88	50	0	0	1	0
HARTFORD	85	64	89	56	74	2	.2	.6	.1	5.8	73	18.7	73	89	48	0	0	2	0
DC WASHINGTON	87	73	94	67	80	2	.3	.8	.2	9.6	107	20.2	85	97	60	2	0	3	0
FL APALACHICOLA	90	76	92	74	83	1	1.5	.2	.8	15.0	97	23.8	70	94	65	5	0	4	2
DAYTONA BEACH	92	74	96	71	83	2	.1	.4	.1	7.2	47	18.0	62	94	57	4	0	2	0
FORT MYERS	92	76	96	73	84	1	2.2	.5	1.5	22.8	115	29.7	91	90	48	6	0	3	1
JACKSONVILLE	94	74	96	70	84	3	.1	1.6	.1	8.4	53	21.3	66	88	58	5	0	3	0
KEY WEST	89	80	90	76	85	0	2.2	1.4	2.1	5.2	54	9.6	49	92	72	4	0	3	1
MIAMI	90	78	92	75	84	1	.3	1.1	.2	10.6	59	22.3	66	88	58	5	0	3	0
ORLANDO	94	74	96	73	84	2	1.1	.5	.3	17.5	99	26.2	81	94	47	7	0	5	0
TALLAHASSEE	88	71	92	70	80	-2	1.6	0	.9	13.9	78	35.6	88	99	64	2	0	4	1
TAMPA	91	75	93	71	83	1	.3	1.6	.2	11.6	67	20.8	67	97	58	6	0	2	0
WEST PALM BEACH	92	76	93	72	84	2	.7	.7	.7	9.2	56	22.5	68	91	59	7	0	2	1
GA ATLANTA	91	71	95	68	81	3	.7	.2	.3	6.4	65	23.8	73	91	55	6	0	3	0
AUGUSTA	92	71	95	69	81	1	.5	.5	.5	10.2	101	26.4	91	99	55	6	0	3	0
MACON	91	71	95	69	81	-1	2.1	1.2	1.6	13.6	143	32.1	107	94	55	5	0	3	1
SAVANNAH	92	74	95	72	83	2	6.2	4.7	4.6	16.1	103	27.9	85	99	60	6	0	4	3
HI HILO	80	70	83	66	75	-1	3.8	1.2	2.3	10.0	54	--	--	89	68	0	0	6	2
HONOLULU	86	73	87	70	79	-1	.7	.5	.6	1.1	100	5.5	40	88	60	0	0	3	1
KAHULUI	88	74	90	70	81	3	.4	.3	.3	.4	50	--	--	79	55	1	0	2	0
LIHUE	87	75	89	73	81	2	.7	.2	.4	5.5	131	--	--	89	62	0	0	6	0
ID BOISE	92	55	95	50	74	-1	T	.1	T	.9	69	8.9	114	53	16	5	0	0	0
LEWISTON	96	62	103	54	79	6	0	.1	0	2.8	100	8.9	103	54	16	6	0	0	0
POCATELLO	92	50	94	43	71	-1	0	.1	0	1.0	53	8.6	125	58	14	7	0	0	0
IL CAIRO	90	72	94	66	81	0	2.3	1.5	2.2	12.8	149	31.3	101	--	--	4	0	3	1
CHICAGO	82	64	98	60	73	1	1.5	.9	.9	11.9	138	26.9	129	99	63	1	0	5	1
MOLINE	82	64	88	59	73	-2	1.8	1.0	1.6	11.8	117	21.1	90	94	64	0	0	3	1
PEORIA	83	66	89	61	75	-1	1.8	1.1	1.7	15.8	186	30.9	134	99	69	0	0	4	1
ROCKFORD	81	65	88	59	73	0	1.3	.4	.6	9.4	95	19.8	85	94	64	0	0	3	2
SPRINGFIELD	86	68	91	61	77	1	1.4	.7	1.3	22.5	256	38.0	167	97	64	2	0	2	1
IN EVANSVILLE	87	70	93	64	79	1	2.5	1.8	1.3	9.3	113	29.8	106	87	59	2	0	3	2
FORT WAYNE	80	57	86	60	74	1	.5	.2	.3	11.3	128	25.5	108	91	59	0	0	4	0
INDIANAPOLIS	83	66	87	60	74	0	.3	.5	.3	7.7	89	27.4	107	93	61	0	0	2	0
SOUTH BEND	81	64	85	60	73	0	.3	.5	.1	11.3	135	27.0	118	98	62	0	0	4	0
IA BURLINGTON	82	65	89	60	74	-2	.4	.3	.3	17.2	187	29.6	134	94	61	0	0	3	0
DES MOINES	84	67	90	61	75	0	.8	.1	.5	12.2	133	18.6	89	90	57	1	0	3	1
DUBUQUE	80	55	88	61	72	0	1.4	.6	1.0	11.4	107	21.3	84	96	64	0	0	4	1
SIOUX CITY	84	65	89	59	75	-1	.3	.4	.1	8.3	95	13.3	75	86	51	0	0	3	0
KS CONCORDIA	88	65	95	59	76	-3	1.5	.8	1.1	15.1	166	25.5	137	97	46	3	0	3	1
DODGE CITY	92	67	100	58	80	-1	.2	.4	.2	7.7	107	16.4	113	77	34	4	0	1	0
GOODLAND	84	59	96	51	72	-4	.3	.2	.3	2.6	42	19.3	161	88	37	2	0	2	0
TOPEKA	86	68	91	61	77	-2	.5	.5	.4	18.2	161	28.3	124	91	54	2	0	3	0
WICHITA	94	69	105	63	81	0	1.1	.4	1.1	6.9	70	16.4	82	82	36	5	0	1	1
KY LEXINGTON	84	67	91	62	76	0	1.9	1.1	1.1	9.4	90	26.1	87	98	65	2	0	2	2
LOUISVILLE	87	69																	

Weather Data for the Week Ending Aug. 9, 1981

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE June 1	PCT. NORMAL SINCE June 1	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
LAKE CHARLES	90	74	91	68	82	-1	1.2	-.1	.7	23.4	177	37.6	108	97	58	5	0	4	2
NEW ORLEANS	92	74	93	74	83	1	1.6	-.3	1.6	12.4	96	32.1	88	98	63	7	0	1	1
SHREVEPORT	91	71	94	63	81	-3	1.7	-.6	1.8	9.2	131	29.6	102	95	49	5	0	0	0
CARIBOU	74	59	83	56	66	2	2.9	2.0	1.8	9.9	115	23.0	112	88	65	0	0	5	2
PORTLAND	74	62	82	57	68	0	.7	.2	.6	10.7	162	25.9	109	93	70	0	0	3	1
BALTIMORE	86	68	92	60	77	1	.4	-.6	.2	10.4	116	20.7	83	90	56	1	0	5	0
BOSTON	82	68	88	65	75	2	1.0	-.3	.9	6.2	91	18.6	75	91	57	0	0	3	1
CHATHAM	75	64	79	62	70	-1	1.5	-.1	.3	8.7	--	24.7	--	97	83	0	0	3	0
ALPENA	78	57	84	51	68	2	.8	-.2	.3	4.3	68	12.3	75	99	57	0	0	3	0
DETROIT	82	64	85	61	73	1	.1	-.7	.7	7.7	103	18.2	90	87	53	0	0	2	0
FLINT	82	64	86	61	73	3	.8	-.1	.8	7.8	107	18.6	100	89	51	0	0	3	1
GRAND RAPIDS	82	62	84	57	72	1	.2	-.4	.2	8.3	111	26.4	132	97	57	0	0	2	0
HOUGHTON LAKE	78	59	82	54	68	2	4.7	-4.2	3.1	10.7	149	20.4	119	97	59	0	0	4	3
LANSING	83	63	87	58	73	2	1.7	-.6	1.1	5.0	71	17.9	93	99	56	0	0	1	0
MARQUETTE	73	56	79	52	65	1	1.6	-.8	.6	9.0	101	21.1	100	98	62	0	0	5	1
MUSKOGON	79	62	81	56	71	1	1.7	-.5	1.1	5.7	106	16.8	91	96	62	0	0	0	0
SAULT STE. MARIE	75	54	78	48	64	-1	1.5	-.9	1.3	8.3	120	17.1	98	96	61	0	0	3	1
DULUTH	75	58	82	54	67	0	2.1	1.2	1.4	11.2	120	19.6	103	97	65	0	0	6	1
INT'L FALLS	76	58	84	55	67	1	1.2	-.4	.6	7.2	82	12.9	81	95	59	0	0	4	1
MINNEAPOLIS	80	62	85	56	71	-1	.4	-.3	.2	9.4	109	16.8	97	96	57	0	0	3	0
ROCHESTER	80	61	84	55	71	0	.3	-.4	.3	14.9	159	22.9	127	95	62	0	0	2	0
SAINT CLOUD	80	60	86	53	70	-1	.2	-.6	.1	9.1	102	16.6	93	89	55	0	0	4	0
JACKSON	94	72	98	63	83	1	1.8	1.0	.8	12.0	135	30.4	92	94	46	6	0	3	2
MERIDIAN	98	72	101	67	85	3	1.0	-.1	.9	6.9	68	29.7	87	92	42	7	0	2	1
COLUMBIA	86	69	92	63	78	0	.1	-.6	.1	20.3	218	36.8	152	95	60	1	0	2	0
KANSAS CITY	84	67	92	60	76	-3	1.0	-.1	.4	17.6	160	31.2	130	100	64	1	0	3	0
SAINT LOUIS	87	72	92	66	80	1	.1	-.6	.1	16.8	183	32.8	138	96	52	2	0	2	0
SPRINGFIELD	89	68	93	60	78	0	.2	-.5	.2	13.0	141	27.2	106	95	57	3	0	1	0
BILLINGS	85	58	89	55	72	-1	.4	-.2	.2	3.7	103	13.6	142	71	30	0	0	2	0
GLASGOW	86	56	91	54	71	0	1.1	-.3	.1	3.8	81	6.6	83	74	25	1	0	1	0
GREAT FALLS	84	51	88	48	68	-2	.1	-.1	.1	2.5	53	11.0	102	72	23	0	0	2	0
HAVRE	83	53	88	49	68	-2	.4	-.2	.4	3.4	81	6.9	83	92	27	0	0	1	0
HELENA	84	52	87	45	68	0	1.7	-.2	1.1	2.8	78	11.1	146	67	22	0	0	0	0
KALISPELL	86	51	92	43	68	4	1.7	-.3	1.1	4.4	113	13.7	128	78	24	2	0	0	0
MILES CITY	85	60	89	57	73	-3	.3	0	.3	3.8	73	7.3	73	84	33	0	0	1	0
MISSOULA	88	50	94	45	69	2	1.7	-.2	1.1	3.9	115	11.0	125	73	21	2	0	1	0
GRAND ISLAND	84	64	89	57	74	-3	.4	-.2	.3	5.9	70	15.0	89	98	59	0	0	3	0
LINCOLN	86	67	92	62	76	-2	.7	0	.4	7.3	79	14.4	79	94	62	1	0	3	0
NORFOLK	85	64	92	58	75	-1	1.4	-.9	1.0	9.5	109	15.0	88	93	46	2	0	3	1
NORTH PLATTE	83	59	91	53	71	-4	1.2	-.7	.8	9.3	126	20.2	140	96	50	1	0	3	1
OMAHA	84	65	90	60	75	-1	.5	-.4	.5	9.5	97	16.5	83	90	59	1	0	1	0
VALENTINE	85	59	96	54	72	-3	2.5	1.9	2.3	9.1	132	13.2	100	88	46	2	0	3	1
ELY	94	43	97	40	68	1	1.7	-.1	1.1	.4	25	5.9	113	31	7	6	0	1	0
LAS VEGAS	107	75	111	68	91	2	0	0	0	0	0	2.2	88	22	6	7	0	0	0
RENO	96	44	102	37	70	1	1.7	-.1	1.1	0	0	2.5	52	64	7	6	0	0	0
WINNEMUCCA	97	48	102	43	73	2	0	0	0	0	0	4.1	77	36	7	7	0	0	0
CONCORD	79	60	87	54	70	1	1.4	-.7	1.0	9.9	130	25.3	119	96	56	0	0	3	1
ATLANTIC CITY	87	68	94	62	78	3	1.8	-.6	1.2	8.0	86	23.1	83	95	52	2	0	2	2
TRENTON	83	68	89	65	76	1	1.5	-.3	1.5	9.5	104	22.5	89	97	62	0	0	2	1
ALBUQUERQUE	94	67	99	64	80	2	.4	0	.3	1.8	75	4.2	89	66	23	5	0	3	0
ROSWELL	89	66	96	62	78	-1	.3	-.1	.2	11.3	305	16.2	253	88	39	4	0	2	0
ALBANY	83	64	87	58	73	2	1.1	-.5	.7	7.4	107	17.7	89	95	55	0	0	4	1
BINGHAMTON	78	62	81	59	70	1	.7	-.1	.3	6.1	73	16.8	73	92	54	0	0	4	0
BUFFALO	80	66	82	63	73	3	1.1	-.3	.5	9.7	154	21.6	105	91	53	0	0	5	0
NEW YORK	85	71	91	69	78	2	.2	-.9	.1	8.4	101	21.7	86	81	45	1	0	2	0
ROCHESTER	81	64	81	60	72	1	2.5	1.8	2.3	9.9	157	19.7	104	95	61	0	0	2	1
SYRACUSE	84	63	87	59	73	2	.6	-.2	.4	5.2	72	14.9	68	93	53	0	0	3	0
ASHEVILLE	86	65	89	61	75	1	.2	-.8	.1	6.9	68	25.0	86	100	59	0	0	2	0
CHARLOTTE	88	72	91	70	80	1	.9	-.1	.8	10.5	107	22.5	80	90	52	2	0	3	1
GREENSBORO	87	70	93	68	78	1	.7	-.3	.4	12.6	133	23.3	90	89	52	2	0	3	0
HATTERAS	85	74	88	65	80	1	1.2	-.4	.7	14.4	113	27.5	86	98	72	0	0	3	1
RALEIGH	91	74	98	72	82	5	2.7	1.5	1.6	8.9	86	20.6	77	97	59	4	0	4	2
WILMINGTON	91	75	93	73	83	3	3.0	1.3	2.6	10.9	67	24.5	72	96	63	5	0	3	1
BISMARCK	81	59	85	53	70	-2	1.3	-.9	.9	7.4	116	9.6	81	91	44	0	0	2	2
FARGO	79	60	84	55	70	-2	.3	-.4	.1	6.2	83	11.5	85	92	47	0	0	3	0
WILLISTON	89	58	93	54	73	2	.2	-.1	.2	6.4	110	8.7	85	82	30	3	0	2	0
AKRON-CANTON	80	65	84	62	73	1	.2	-.5	.2	10.1	123	29.8	126	89	61	0	0	2	0
CINCINNATI	85	67	92	62	76	1	1.3	-.6	.8	8.5	96	25.1	95	96	62	2	0	3	1
CLEVELAND	80	65	84	62	72	1	1.2	-.5	.9	11.3	145	23.3	100	87	60	0	0	3	1
COLUMBUS	80	66	86	60	73	0	.6	-.1	.4	10.6	114	29.1	114	93	68	0	0	4	0
DAYTON	84	68	88	63	76	2	2.0	1.4	1.9	13.3	162	28.1	119	95	66	0	0	3	1
TOLEDO	81	64	85	62	72	0	.4	-.3	.3	12.8	166	22.8	112	87	54	0	0	4	0
YOUNGSTOWN	79	63	85	60	71	1	.6	-.2	.6	7.2	85	22.9	93	88	55	0	0	1	1
OKLAHOMA CITY	93	70	98	63	82	-1	1.3	-.8	1.1	15.1	201	24.9	119	86	35	5	0	2	1

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

Weather Data for the Week Ending Aug. 9, 1981

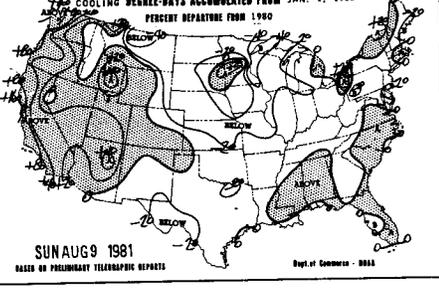
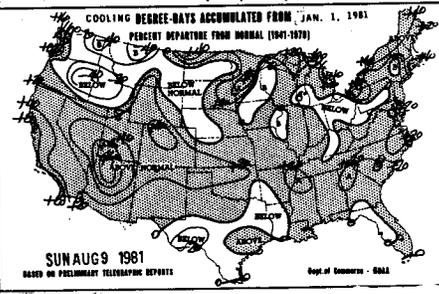
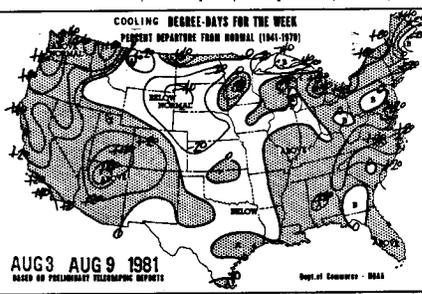
STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE June 1	PCT. NORMAL SINCE June 1	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
OR TULSA	93	72	97	66	83	0	1.5	.8	.9	11.1	122	23.8	98	89	46	5	0	2	2
OR ASTORIA	82	54	109	48	68	7	T	.3	T	6.8	179	34.1	96	89	54	1	0	0	0
OR BURNS	90	51	97	46	70	2	0	.1	0	.7	47	7.1	103	100	32	4	0	0	
OR MEDFORD	102	57	114	50	80	8	0	.1	0	.9	64	6.3	56	81	19	6	0	0	
OR PENDLETON	92	60	99	54	76	2	T	.1	T	2.4	185	9.0	118	56	19	5	0	0	
OR PORTLAND	94	61	107	56	78	10	0	.1	0	3.5	159	15.4	77	90	32	4	0	0	
OR SALEM	95	55	108	48	75	8	T	.1	T	3.6	171	16.7	74	94	29	4	0	0	
PA ALLENTOWN	82	63	86	57	73	-1	.5	.5	.5	9.0	98	23.3	90	96	57	0	0	2	
PA ERIE	79	65	81	62	72	3	.7	.1	.5	8.6	110	24.5	110	86	60	0	0	3	
PA HARRISBURG	83	67	87	64	75	-1	2.2	1.4	1.7	11.5	149	23.5	104	97	61	0	0	2	
PA PHILADELPHIA	85	68	88	66	77	0	4.7	3.7	4.4	13.6	151	25.9	105	95	55	0	0	1	
PA PITTSBURGH	80	64	84	61	72	1	.1	.7	.1	12.2	147	25.8	108	94	58	0	0	2	
PA SCRANTON	81	63	84	57	72	0	.6	.2	.4	8.4	97	24.3	111	88	55	0	0	3	
RI PROVIDENCE	83	63	89	58	73	1	1.1	.3	.8	7.1	109	19.3	79	100	58	0	0	3	
SC CHARLESTON	93	77	95	74	85	5	1.9	.3	.8	22.1	134	33.7	99	91	55	7	0	4	
SC COLUMBIA	90	71	93	69	81	0	.5	.8	.3	12.7	114	25.1	84	98	59	5	0	3	
SC GREENVILLE	88	70	91	68	79	1	.5	.4	.4	7.4	80	19.9	66	92	55	2	0	2	
SD ABERDEEN	82	61	87	53	71	-2	.9	.4	.9	7.1	99	11.3	83	88	45	0	0	1	
SD HURON	83	63	87	54	73	-1	.6	.1	.6	7.5	114	10.4	76	94	47	0	0	1	
SD RAPID CITY	80	58	85	55	69	-5	.3	.1	.2	6.7	103	10.2	75	90	40	0	0	2	
SD SIOUX FALLS	85	65	90	57	75	1	.5	.1	.3	8.6	104	12.0	70	81	44	1	0	2	
TN CHATTANOOGA	93	70	98	64	82	3	.4	.4	.2	8.2	75	26.7	80	88	41	6	0	3	
TN KNOXVILLE	90	72	95	69	81	3	1.4	.6	.8	9.5	101	24.9	81	91	52	2	0	3	
TN MEMPHIS	93	75	98	68	84	2	.1	.7	.1	4.6	58	25.3	77	85	45	5	0	2	
TN NASHVILLE	91	69	96	65	80	0	1	.7	.1	11.7	141	28.4	93	86	47	3	0	1	
TX ABILENE	97	76	100	67	86	1	T	.5	T	4.4	75	13.9	91	66	27	6	0	0	
TX AMARILLO	90	66	95	60	78	-1	.4	.3	.2	4.4	61	9.7	77	87	34	4	0	2	
TX AUSTIN	98	75	99	70	87	1	T	.4	T	18.4	329	34.3	170	78	32	7	0	0	
TX BEAUMONT	90	75	92	70	83	0	.1	1.2	T	20.0	160	34.7	105	96	57	5	0	2	
TX BROWNSVILLE	96	76	97	74	86	1	1.1	.8	1.1	5.9	134	18.3	153	91	47	7	0	1	
TX CORPUS CHRISTI	94	74	97	71	84	-2	T	.5	T	9.2	174	25.6	166	94	45	7	0	0	
TX DEL RIO	98	74	102	69	86	-1	1.7	1.6	1.7	7.9	255	19.8	206	86	34	6	0	1	
TX EL PASO	91	70	99	63	80	-1	1.7	1.4	1.2	4.4	169	7.7	175	85	38	4	0	4	
TX FORT WORTH	97	73	102	65	85	-1	.5	.1	.5	10.2	185	24.6	117	80	30	7	0	1	
TX GALVESTON	91	79	94	77	85	1	.2	.7	.2	15.8	163	24.2	101	82	57	5	0	1	
TX HOUSTON	95	75	97	73	85	1	0	.9	0	14.2	142	32.1	112	92	40	7	0	0	
TX LUBBOCK	89	70	94	65	80	0	T	.3	.1	4.4	79	9.8	84	77	38	4	0	3	
TX MIDLAND	96	70	102	65	83	0	T	.3	T	.8	22	6.9	84	71	27	6	0	0	
TX SAN ANGELO	95	71	99	67	83	-3	T	.2	T	4.7	138	17.4	171	81	31	7	0	0	
TX SAN ANTONIO	99	76	100	70	87	1	0	.4	0	8.9	171	23.5	144	84	33	7	0	0	
TX VICTORIA	96	74	97	72	85	0	.2	.4	.2	13.9	201	28.3	145	95	41	7	0	1	
TX WACO	97	72	101	62	85	-2	T	.3	T	7.4	157	18.1	91	86	32	7	0	1	
TX WICHITA FALLS	99	73	105	66	86	-1	.8	.4	.8	6.7	114	19.6	108	76	28	7	0	1	
UT BLANDING	92	59	97	57	75	3	0	.4	0	3.2	168	7.8	128	46	19	5	0	0	
UT SALT LAKE CITY	95	61	98	58	78	1	0	.2	0	1.3	57	9.1	90	46.	9	7	0	0	
VT BURLINGTON	76	61	84	56	69	0	1.9	1.1	.7	8.2	101	22.4	120	89	63	0	0	5	
VA LYNCHBURG	88	68	94	66	78	2	2.2	1.3	1.0	12.5	142	22.7	96	97	53	2	0	4	
VA NORFOLK	89	72	99	69	81	2	1.7	.3	1.1	11.8	106	21.9	81	93	57	3	0	4	
VA RICHMOND	88	71	95	69	80	2	1.4	.1	.6	9.1	84	23.9	91	95	57	3	0	4	
VA ROANOKE	90	68	95	64	79	4	.9	0	.6	6.4	78	18.2	76	90	43	4	0	3	
WA COLVILLE	88	54	95	48	71	3	0	.2	0	7.0	269	16.0	163	77	34	4	0	0	
WA OMAK	98	61	97	57	80	-	0	-	0	1.3	-	6.4	-	-	6	0	0	0	
WA QUILLAYUTE	82	51	99	43	67	8	0	.5	0	9.9	152	54.7	96	95	42	2	0	0	
WA SEATTLE-TACOMA	84	61	99	56	73	8	0	.2	0	3.8	158	16.0	80	76	37	3	0	0	
WA SPOKANE	88	57	94	49	72	2	T	.1	T	2.5	119	9.5	88	75	23	4	0	1	
WA WALLA-WALLA	98	65	105	60	81	6	0	.1	0	3.4	189	14.0	137	56	18	5	0	0	
WA YAKIMA	95	57	103	50	76	5	0	0	0	.7	70	3.2	74	71	19	5	0	0	
WV BECKLEY	79	63	83	60	71	1	1.3	.4	.5	10.2	102	23.3	82	99	67	0	0	3	
WV CHARLESTON	85	67	92	64	76	1	1.3	.4	.8	10.9	112	26.3	96	93	55	2	0	4	
WV HUNTINGTON	86	67	92	62	76	1	1.0	.2	.5	10.6	120	29.7	114	99	60	2	0	3	
WV PARKERSBURG	80	66	85	63	73	-1	.6	.3	.4	10.4	108	23.1	88	92	61	0	0	4	
WI GREEN BAY	81	61	87	59	71	2	1.6	1.1	.9	5.1	70	13.1	77	98	57	0	0	4	
WI LA CROSSE	82	67	86	62	74	1	2.8	2.2	2.5	15.1	172	24.2	127	100	61	0	0	2	
WI MADISON	82	61	86	54	71	1	.1	.6	T	10.5	115	17.4	89	91	56	0	0	3	
WI MILWAUKEE	77	62	85	58	69	-2	.6	0	.4	7.4	95	18.9	103	100	68	0	0	3	
WY CASPER	86	52	97	46	69	-3	.4	.3	.2	2.1	88	8.8	114	81	24	3	0	3	
WY CHEYENNE	78	55	89	49	66	-3	.7	.3	.7	5.3	108	12.7	115	84	35	0	0	2	
WY LANDER	84	55	93	53	70	-2	.7	.7	.7	1.6	59	8.8	92	67	28	3	0	2	
WY SHERIDAN	84	54	92	49	69	-3	.6	.5	.6	5.6	137	11.6	102	75	29	1	0	2	
PR SAN JUAN	90	78	92	76	84	3	.8	.8	.4	13.3	94	37.1	115	93	65	5	0	5	

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

HEATING DEGREE DAYS (BASE 65°) FOR WEEK ENDING AUG. 9, 1981.

BASED ON 1941-70 NORMALS. + ACCUMULATION FROM JAN 1, 1981

Table with columns for STATES AND STATIONS, WEEKLY ACCUMULATION, and SEASONAL ACCUMULATION. It lists data for various states including ALA., ARIZ., ARK., CALIF., COLO., CONN., DEL., D.C., FLA., GA., IDAHO, ILL., IND., IOWA, KANS., KY., LA., MAINE, MD., MASS., MICH., MINN., MISS., MO., MONT., NEBR., NEV., N.H., N.J., N.MEX., N.Y., N.C., N.DAK., OHIO, OKLA., OREG., PA., R.I., S.C., S.DAK., TENN., TEXAS, UTAH, VA., WASH., W.VA., WIS., and WYO.



July Weather and Crop Summary

WEATHER

HIGHLIGHTS: Excessive amounts of rain during the month were received over much of Missouri and southern Illinois. Many low-lying areas were flooded, making winter wheat harvest difficult. Above normal rain in other parts of the Plains and the East were generally beneficial. A large portion of southeastern United States had much less than normal rainfall and moderate to severe drought conditions continued. Near to slightly below normal temperatures throughout the Corn Belt were good for the beginning of the important propagation period in corn but high temperatures early in the month in the northern Plains were not good for the early flowering spring wheat.

FIRST WEEK...A heat wave continued in southwestern United States, extending northward into Oregon and Montana. On the second day of the month, cooler air from Canada tempered the heat in the Northwest and Montana but, by the fifth, Oregon temperatures again rose over the 100° mark. New England was warm and the Southeast cool but the rest of the East was near normal. Significant precipitation was confined to the Central Plains, southern Rockies and eastward. Heavy rain fell in parts of the Mississippi Delta and Ohio Valley and tropical Storm Brett brought downpours to the mid-Atlantic States.

SECOND WEEK...The cooler air was persistent in the Northwest and spread as far south as central California. Average temperatures for the week were as much as 9 to 12° cooler than normal in much of the area. The warmer air spread into the Plains and much of the East. Rain moved through the Pacific Northwest and into the Plains and Mississippi River Valley. Moisture from the south brought seasonal showers and thunderstorms to Arizona, New Mexico, and the central Rockies. Some heavy rains fell in southern Texas but most of the East recorded only light showers.

THIRD WEEK...Hot weather dominated much of the East before a cold front brought cooler air to the northern States after midweek. High temperatures rose to the mid-nineties through the Corn Belt as corn was beginning its critical silking stage but dropped into the eighties after the cold front passed. The heaviest rain fell in the middle Mississippi River Valley where most areas already had adequate to excess moisture. Only light showers teased the very dry region in the Southeast.

FOURTH WEEK...The cooler air was separated from summer's heat by a nearly straight line from Virginia to northern California. High temperatures rose to 106° in Oklahoma and southern Kansas, while 100° readings were common throughout the South. Moderate to heavy rain from thunderstorms centered in northern Missouri, northwestward into Montana and northeastward to western New England. Some moderate to heavy showers fell in central Georgia and lighter amounts spread over the dry area.

In the last five days of the month another spate of rain fell in southeastern United States but much more is needed from central Alabama through Georgia and Florida. Severe thunderstorms dumped heavy rain over wide areas

from the Texas Panhandle to western Arkansas where the moisture was needed but the heavy amounts from eastern Kansas to central Illinois fell in wet areas. Rains in western Iowa, Nebraska, and South Dakota were more welcome. Temperatures through the Corn Belt were cooler than normal.

CROP DEVELOPMENT

On August 1, development of corn and soybeans continued to be later than average because of the late planting season. Progress of the cotton crop, however, was ahead of normal. Only a few areas of the Nation, notably parts of the Southeast, indicated any crop stress. Elsewhere there was little or no abnormal stress from high temperatures or dry soils. During July corn was tasseling and silking, soybeans were blooming and began to set pods, cotton was setting bolls, and grain sorghum was heading. Heavy rains and wet fields delayed small grain harvests, in parts of Missouri and reduced the intended acreage of double cropped soybeans.

At the beginning of August, corn was in fair to mostly good condition, except in Georgia where it was poor to fair because of dry weather. Over three-quarters of the Nation's corn had reached the silking stage by August 2 and 20 percent had progressed to the dough stage. Crop development was considerably behind average in Indiana and Ohio as the result of late planting. In the South, harvesting was active reaching 25 percent complete in Georgia and 14 percent complete in Alabama.

Soybeans were in fair to mostly good condition except in parts of the Southeast. The crop was poor to fair in Georgia due to dry weather. By the end of the month, blooming and podding was underway in all States with 64 percent of the fields blooming. Pods set was 29 percent complete. In Indiana, podding was 30 points behind average. In Ohio, pod set lagged the average by 40 points.

Cotton was generally in fair to good condition, although the Georgia crop rated only poor to fair. Boll set was ahead of average in many areas, but lagged in Georgia and Oklahoma. In Texas, boll set reached 66 percent complete, 9 points behind last year. By August 2, bolls had set on 73 percent of the acreage. Bolls were beginning to open in parts of the Southeast. Harvesting was underway in southern Texas.

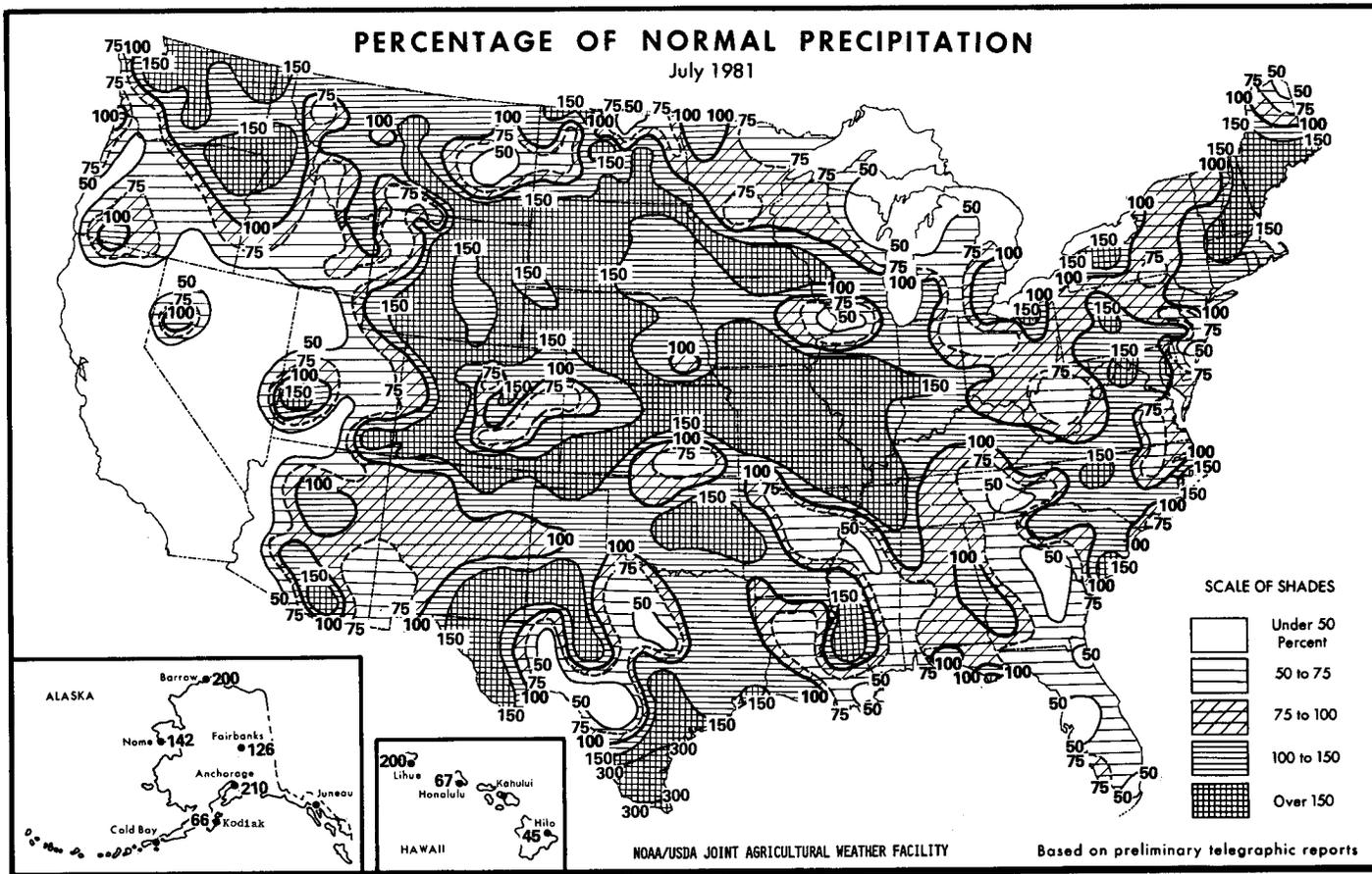
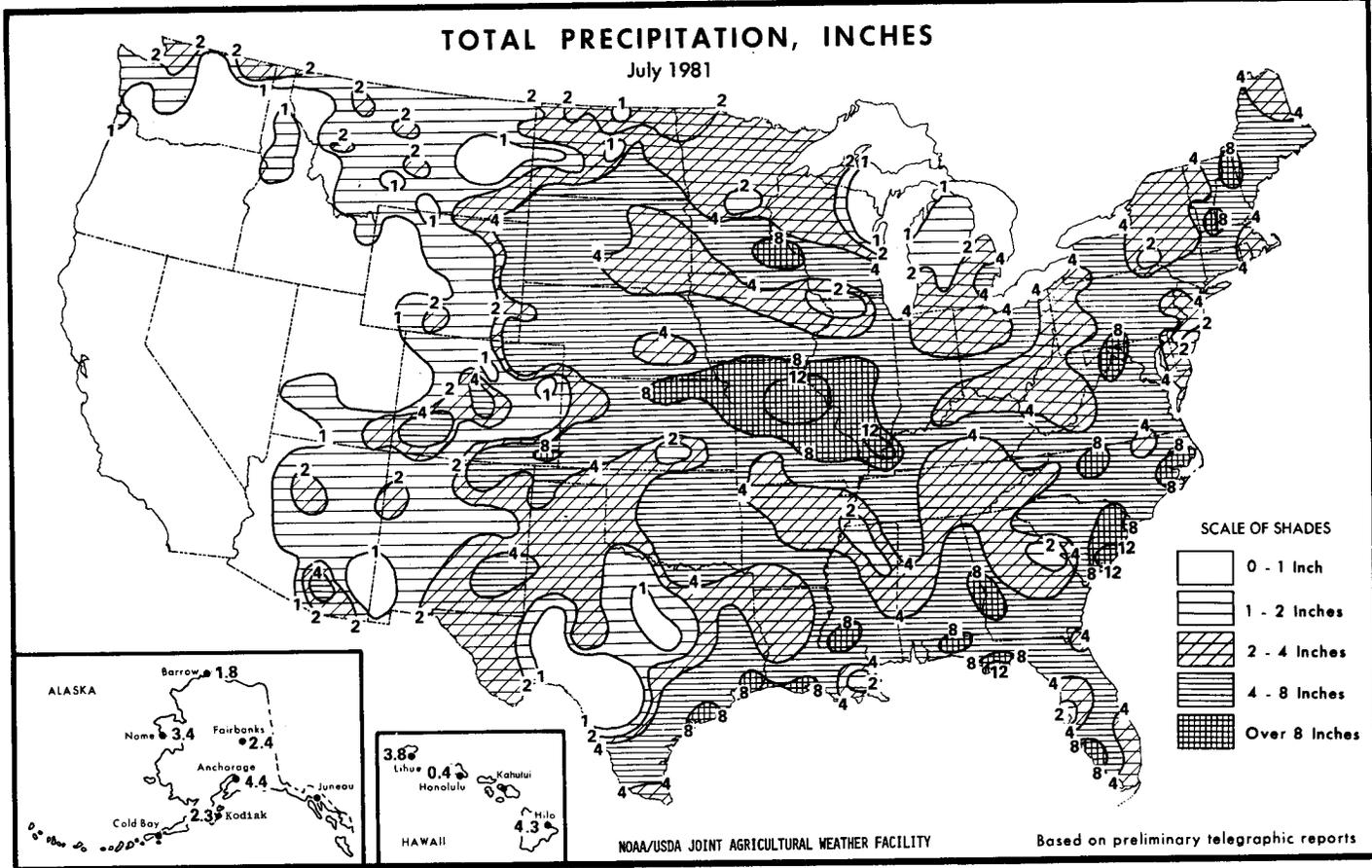
Heading of grain sorghum reached 48 percent complete by the beginning of August. Forty-three percent of the Texas crop had been harvested.

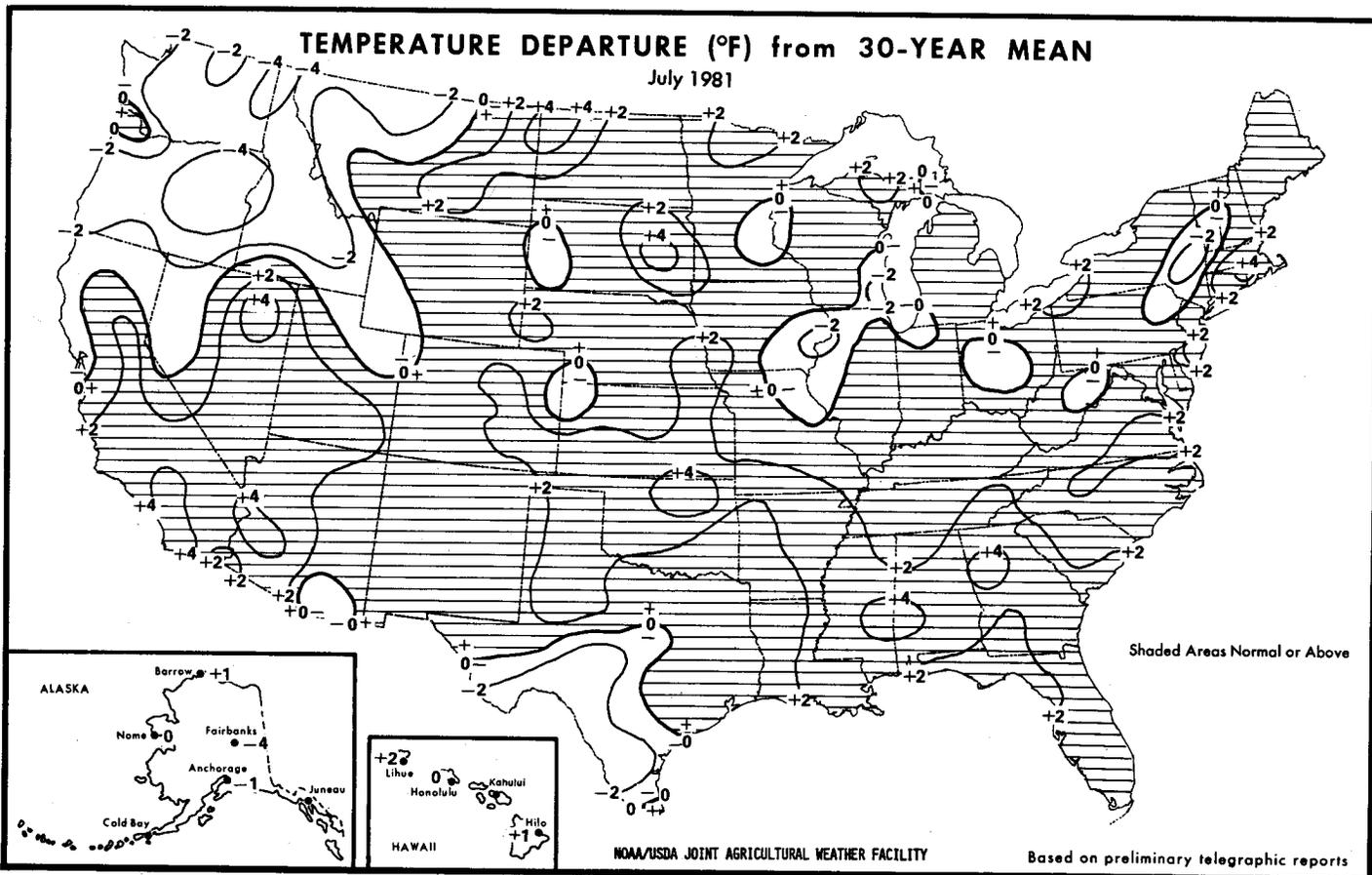
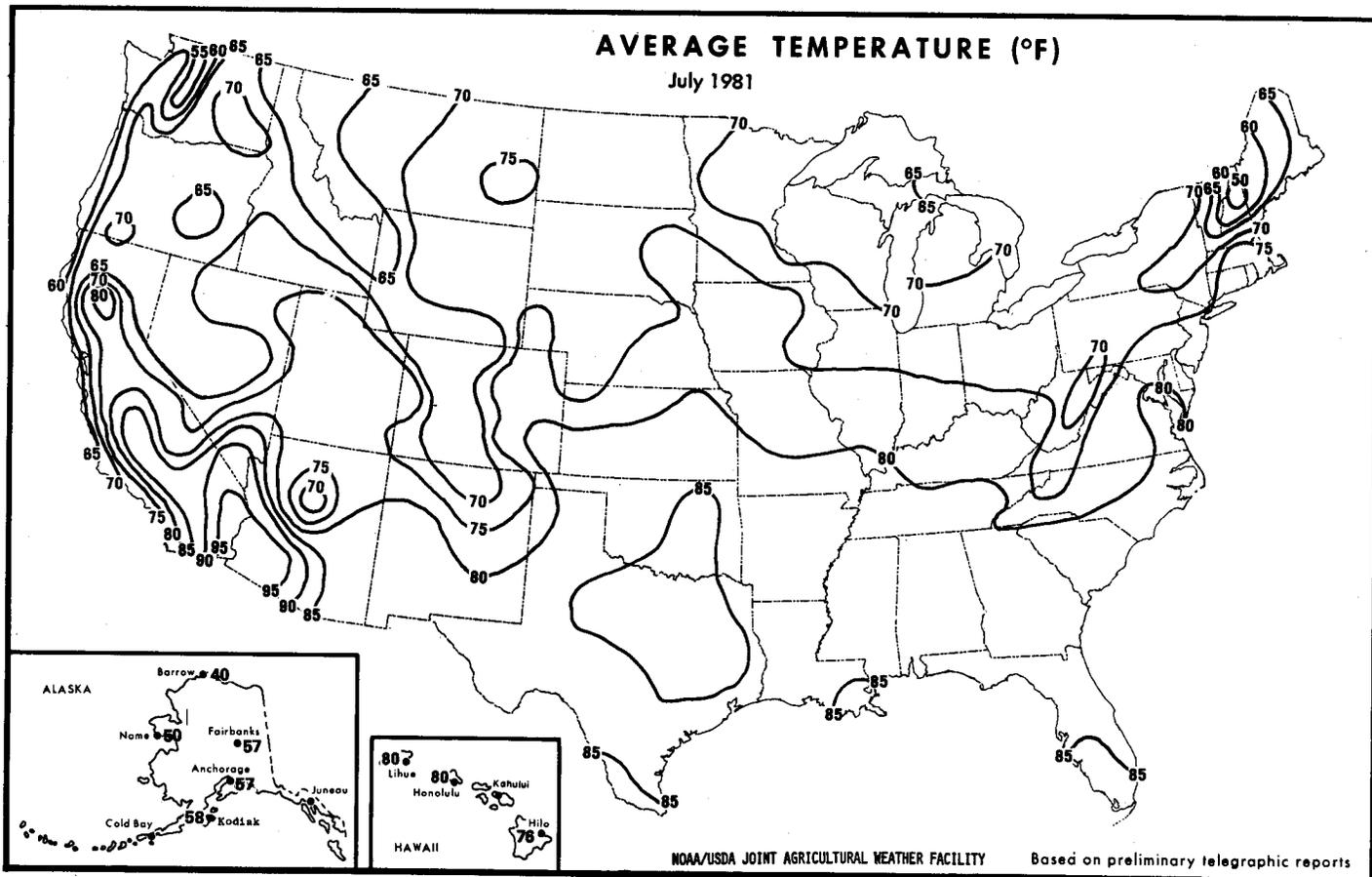
Winter wheat combining was 86 percent complete by August 2. Some acreage was yet to be harvested in areas of Nebraska, Missouri and the Dakotas and the Pacific Northwest. In Missouri, heavy rains delayed harvest to the extent that only 81 percent of the State's crop had been combined by August 2. Normally, growers are finished by this date. Spring wheat harvest reached 11 percent complete. Progress was behind normal in all States except Idaho. Dry weather is needed for harvest operations.

Temperature and Precipitation Data for July 1981

States and Stations	Temperature OF		Precipitation Inches		States and Stations	Temperature OF		Precipitation Inches		States and Stations	Temperature OF		Precipitation Inches	
	Average	Departure	Total	Departure		Average	Departure	Total	Departure		Average	Departure	Total	Departure
AL BIRMINGHAM	82	2	3.9	-1.3	LA BATON ROUGE	84	2	4.3	-2.2	TOLEDO	72	0	3.7	-.5
MOBILE	84	2	6.5	-2.4	LAKE CHARLES	83	1	7.7	-1.1	YOUNGSTOWN	71	0	3.4	-.5
MONTGOMERY	84	3	4.1	-1.0	NEW ORLEANS	85	3	1.9	-4.8	OK OKLAHOMA CITY	84	2	6.5	3.8
AK ANCHORAGE	57	-1	4.4	2.0	SHREVEPORT	83	0	2.4	-.5	TULSA	86	4	6.2	2.7
BARROW	40	1	1.8	+0.9	ME CARIBOU	66	1	2.6	-1.4	OR ASTORIA	60	0	1.1	-.1
FAIRBANKS	57	-4	2.4	+0.5	PORTLAND	69	1	5.4	-2.8	BURNS	64	-4	.2	-.1
JUNEAU	--	--	--	--	MD BALTIMORE	77	0	4.6	.5	MEDFORD	71	-1	.4	-.1
KODIAK	58	+4	2.3	-1.2	MA BOSTON	75	2	3.5	.8	PENDLETON	69	-5	.9	-.6
NOME	50	0	3.4	1.0	MI CHATHAM	70	0	3.0	.3	PORTLAND	68	1	.2	-.3
AZ FLAGSTAFF	68	2	2.9	.4	MI ALPENA	68	2	1.5	-1.0	SALEM	65	-2	.2	-.2
PHOENIX	95	4	1.1	.3	DETROIT	72	0	4.3	1.2	PA ALLENTOWN	75	1	2.7	-1.7
TUCSON	89	-1	6.2	3.8	FLINT	71	1	3.9	.9	ERIE	72	3	3.0	-.5
WINSLOW	75	1	1.7	.5	GRAND RAPIDS	72	0	3.7	.6	HARRISBURG	76	0	4.7	1.0
YUMA	95	1	T	-.2	BOUGHTON LAKE	67	1	1.9	-1.2	PHILADELPHIA	77	0	4.5	.4
AR FORT SMITH	82	0	7.7	4.5	LANSING	71	0	1.7	-1.1	PITTSBURGH	72	0	3.8	.0
LITTLE ROCK	83	2	2.1	-.9	MARQUETTE	66	2	.6	-3.2	SCRANTON	72	-1	4.3	.0
CA BAKERSFIELD	87	3	0	.0	MUSKEGON	70	0	1.9	-.6	RI PROVIDENCE	76	4	3.8	.9
EUREKA	55	-1	T	-.1	SAULT STE. MARIE	63	-1	.8	-1.8	SC CHARLESTON	83	3	12.7	4.5
FRESNO	85	4	0	.0	MN DULUTH	66	0	3.3	-.4	COLUMBIA	81	0	5.4	-.3
LOS ANGELES	72	3	0	.0	INT'L FALLS	69	3	2.3	-1.7	GREENVILLE	80	2	5.3	+1.1
RED BLUFF	83	1	T	.0	MINNEAPOLIS	71	-1	4.1	.4	SD ABERDEEN	74	2	4.0	1.3
SAN DIEGO	76	6	T	.0	ROCHESTER	70	0	10.5	-6.8	HURON	78	4	2.2	.0
SAN FRANCISCO	62	-1	T	.0	SAINT CLOUD	70	0	1.9	-1.3	RAPID CITY	72	-1	4.5	2.4
STOCKTON	78	1	0	.0	MS JACKSON	84	2	6.5	-2.2	SIoux FALLS	76	3	3.9	1.0
CO DENVER	76	3	.9	-.9	MERIDIAN	85	4	3.2	-1.9	TN CHATTANOOGA	81	2	4.0	-1.1
GRAND JUNCTION	79	0	.4	-.1	MO COLUMBIA	78	1	12.1	8.7	KNOXVILLE	81	3	2.0	-2.7
PUEBLO	79	3	1.3	-.6	KANSAS CITY	78	0	8.4	4.0	MEMPHIS	85	3	1.7	-1.8
CT BRIDGEPORT	74	0	4.5	1.1	SAINT LOUIS	79	0	10.7	7.0	WASHVILLE	80	0	3.5	-.3
HARTFORD	75	2	4.2	.8	SPRINGFIELD	80	2	3.1	-.5	TX ABILENE	86	2	1.7	-.6
DC WASHINGTON	80	1	5.7	1.6	MT BILLINGS	74	2	1.7	.8	AMARILLO	81	2	2.7	-.3
FL APALACHICOLA	82	1	12.6	4.6	GLASGOW	72	1	1.7	.3	AUSTIN	85	0	3.4	1.5
DAYTONA BEACH	83	2	4.7	-2.0	GREAT FALLS	67	-2	1.0	-.3	BEAUMONT	83	0	10.8	4.9
FORT MYERS	86	3	8.2	-.7	HAVRE	67	-3	1.7	.3	BROWNSVILLE	85	1	2.6	1.4
JACKSONVILLE	84	3	2.5	-4.9	HELENA	68	0	1.8	.8	CORPUS CHRISTI	83	-2	6.0	4.1
KEY WEST	86	1	1.2	-2.9	KALISPELL	63	-1	.7	-.3	DEL RIO	84	-3	.6	-.4
MIAMI	85	3	2.8	-4.1	MILES CITY	75	1	.3	-1.3	EL PASO	84	2	2.1	.6
ORLANDO	84	3	3.5	-4.8	MISSOULA	65	-2	1.1	.2	FORT WORTH	86	1	1.8	.0
TALLAHASSEE	82	1	5.8	-3.1	NE GRAND ISLAND	76	0	3.5	.5	GALVESTON	85	2	4.9	.5
TAMPA	84	2	1.7	-6.7	LINCOLN	79	2	3.2	-.1	HOUSTON	84	1	4.4	.3
WEST PALM BEACH	84	2	3.7	-2.8	NORFOLK	76	0	4.2	1.0	LUBBOCK	82	2	3.4	1.2
GA ATLANTA	82	4	2.7	-2.2	NORTH PLATTE	74	0	5.1	2.1	MIDLAND	84	-2	.4	-1.4
AUGUSTA	82	2	1.7	-3.4	OMAHA	77	2	4.5	.8	SAN ANGELO	82	-3	2.7	1.5
MACON	83	2	3.2	-1.3	VALENTINE	74	0	5.5	3.0	SAN ANTONIO	84	-1	.3	-1.4
SAVANNAH	84	3	5.4	-2.5	NV ELY	69	2	.2	-.4	VICTORIA	84	0	4.4	1.6
HI HILO	76	1	4.3	-5.2	LAS VEGAS	93	3	0	-.4	WACO	86	0	.2	-1.3
HONOLULU	80	0	.4	-.2	RENO	68	-1	T	-.3	WICHITA FALLS	87	1	1.3	-.9
KAHULUI	--	--	--	--	WINNEBUCCA	71	0	T	-.2	UT BLANDING	75	2	2.7	1.7
LIHUE	80	2	3.8	1.9	NH CONCORD	70	0	5.5	2.4	SALT LAKE CITY	78	1	.3	-.4
BOISE	71	-4	.2	.0	NJ ATLANTIC CITY	77	2	1.3	-3.1	VT BURLINGTON	71	1	3.2	-.3
LEWISTON	71	-2	.9	.4	TRENTON	78	2	3.5	-1.2	VA LYNCHBURG	76	0	5.0	.9
FOCATTELLO	70	-2	.3	-.1	NM ALBUQUERQUE	80	1	1.1	-.3	NORFOLK	80	2	5.1	-.6
IL CAIRO	82	1	7.4	4.2	ROSWELL	80	1	6.3	4.6	RICHMOND	80	2	4.0	-1.6
CHICAGO	73	1	4.5	1.0	NY ALBANY	69	-3	3.5	.4	ROANOKE	76	1	2.9	-.8
MOLINE	73	-2	3.1	-1.5	BINGHAMTON	69	0	2.0	-1.8	WA COLVILLE	65	-3	3.7	3.0
PEORIA	75	0	7.1	3.3	BUFFALO	72	2	5.1	2.2	OMAK	72	2	.7	.2
ROCKFORD	73	0	1.1	-3.2	NEW YORK	78	1	5.7	1.8	QUILLAYUTE	58	-1	1.4	-1.0
SPRINGFIELD	77	1	10.8	7.0	ROCHESTER	72	1	4.6	1.7	SEATTLE-TACOMA	63	-2	1.4	.7
IN EVANSVILLE	79	1	5.1	1.3	SYRACUSE	73	1	2.7	-.4	SPOKANE	65	-5	.5	.1
FORT WAYNE	73	0	2.9	-1.0	NC ASHVILLE	75	1	2.1	-2.8	WALLA-WALLA	73	-3	.7	.4
INDIANAPOLIS	75	0	5.8	2.1	CHARLOTTE	79	0	6.6	2.0	YAKIMA	69	-2	.3	.1
SOUTH BEND	71	-1	3.7	.0	GREENSBORO	79	2	9.0	4.6	WV BECKLEY	71	1	3.3	-1.1
IA BURLINGTON	74	-1	7.2	3.4	HATTERAS	79	1	9.3	3.4	CHARLESTON	76	1	3.0	-2.0
DES MOINES	76	1	5.8	2.5	RALEIGH	78	0	5.1	.0	HUNTINGTON	76	1	3.6	-.6
DUBUQUE	72	0	1.7	-2.6	WILMINGTON	81	1	5.2	-3.1	PARKERSBURG	75	0	2.7	-1.6
KS SIOUX CITY	75	0	4.4	1.1	ND BISMARCK	71	0	3.7	1.5	WI GREEN BAY	69	0	.8	-2.3
CONCORDIA	78	0	8.0	4.7	FARGO	71	0	3.2	.0	LA CROSSE	74	1	7.7	4.2
DODGE CITY	82	3	5.3	2.2	WILLISTON	74	4	2.5	.5	MADISON	71	1	4.8	1.0
GOODLAND	75	-1	2.0	-.7	OH AKRON-CANTON	72	0	4.1	.3	MILWAUKEE	67	-3	4.4	1.0
TOPEKA	80	2	7.6	3.4	CINCINNATI	76	0	3.7	-.8	CASPER	72	1	1.3	.3
WICHITA	84	3	1.3	-3.1	CLEVELAND	71	0	5.3	1.8	CHEYENNE	69	0	2.9	1.1
LEXINGTON	76	0	5.3	.5	COLUMBUS	72	-2	4.1	-.1	LANDER	71	0	.9	.3
LOUISVILLE	79	2	4.0	.2	DAYTON	75	0	5.1	1.6	SHERIDAN	71	1	3.0	1.9
									PR SAN JUAN	85	4	7.0	.6	

Based on 1941-70 normals

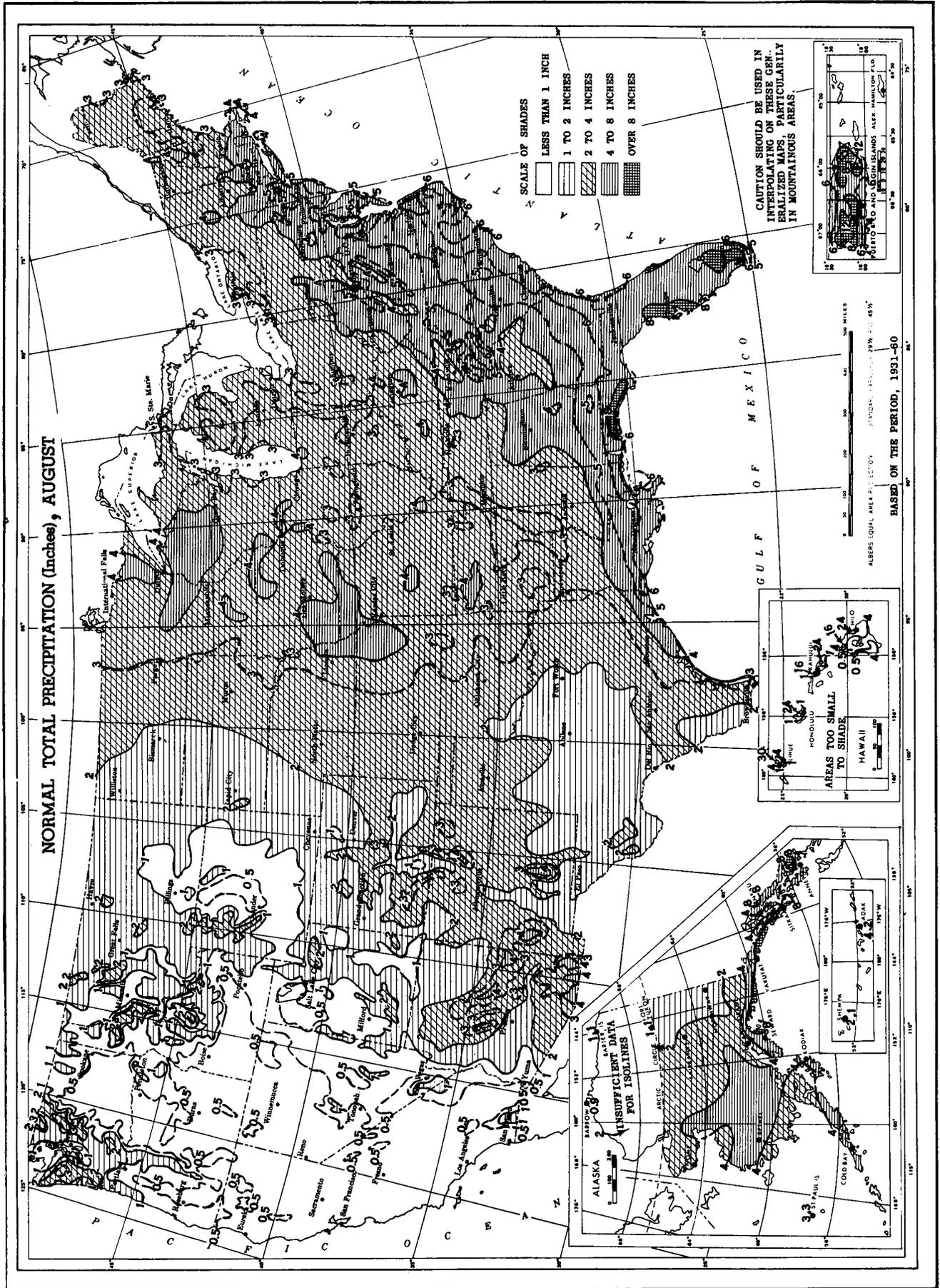




Heating Degree Days (Base 65° F.)

July 1981

ALA. Birmingham	0	MAINE, Caribou	41	OKLA. Okla. City	0
Mobile	0	Portland	16	Tulsa	0
Montgomery	0	MD. Baltimore	0	OREG. Astoria	139
ALASKA, Anchorage	230	MASS. Boston	2	Burns U.	80
Barrow	777	Chatham	2	Medford	20
Fairbanks	255	MICH. Alpena	43	Pendleton	20
Juneau	--	Detroit	3	Portland	23
Nome	469	Flint	10	Salem	59
ARIZ. Flagstaff	1	Grand Rapids	7	PA. Allentown	0
Phoenix	0	Houghton Lake	50	Erie	3
Tucson	0	Lansing	12	Harrisburg	0
Winslow	0	Marquette U	73	Philadelphia	0
Yuma	0	S. Ste. Marie	89	Pittsburgh	3
ARK. Fort Smith	0	MINN. Duluth	74	Scranton	2
Little Rock	0	Internatl Falls	32	R. I. Providence	0
CALIF. Bakersfield	0	Minneapolis	11	S. C. Charleston	0
Eureka U.	299	Rochester	21	Columbia	0
Fresno	0	St. Cloud	24	Greenville	0
Los Angeles U	0	MISS. Jackson	0	S. DAK. Aberdeen	13
Red Bluff	0	Meridian	0	Huron	5
Stockton	0	MO. Columbia	0	Rapid City	21
San Diego	0	Kansas City	0	Sioux Falls	5
San Francisco	112	St. Louis	0	TENN. Chattanooga	0
COLO. Denver	0	Springfield	0	Knoxville	0
Grand Junction	0	MONT. Billings	12	Memphis	0
Pueblo	0	Glasgow	10	Nashville	0
CONN. Bridgeport	0	Great Falls	34	TEX. Abilene	0
Hartford	0	Havre	26	Amarillo	0
D. C. Washington	0	Helena	21	Austin	0
FLA. Apalachicola	0	Kalispell	84	Beaumont	0
Ft. Myers	0	Miles City	0	Brownsville	0
Jacksonville	0	Missoula	39	Corpus Christi	0
Key West	0	NEBR. Grand Island	9	Del Rio	0
Lakeland U.	-	Lincoln	1	El Paso	0
Miami	0	Norfolk	9	Fort Worth	0
Orlando	0	North Platte	9	Galveston U.	0
W. Palm Beach	0	Omaha	8	Houston	0
Tallahassee	0	Valentine	21	Lubbock	0
Tampa	0	NEV. Ely	1	Midland	0
GA. Atlanta	0	Las Vegas	0	San Angelo	0
Augusta	0	Reno	12	San Antonio	0
Macon	0	Winnemucca	2	Victoria	0
Savannah	0	N. H. Concord	12	Waco	0
IDAHO, Boise	15	N. J. Atlantic City	0	Wichita Falls	0
Lewiston	13	Trenton U	0	UTAH, Milford	0
Pocatello	16	N. MEX. Albuquerque	0	Salt Lake City	0
ILL. Cairo U.	0	Roswell	0	VT. Burlington	13
Chicago	8	N. Y. Albany	8	VA. Lynchburg	0
Moline	12	Binghamton	19	Norfolk	0
Peoria	1	Buffalo	6	Richmond	0
Rockford	9	New York	0	Roanoke	0
Springfield	0	Rochester	6	WASH. Colville	65
IND. Evansville	0	Syracuse	2	Omak	--
Fort Wayne	0	N. C. Asheville	0	Quillayute	210
Indianapolis	1	Charlotte	0	Seattle-Tacoma	79
South Bend	4	Greensboro	0	Spokane	73
IOWA, Burlington	8	Hatteras R.	0	Walla Walla U.	12
Des Moines	6	Raleigh	0	Yakima	40
Dubuque	15	Wilmington	0	W. VA. Beckley	6
Sioux City	10	N. DAK. Bismarck	11	Charleston	0
KANS. Concordia	1	Fargo	14	Huntington	0
Dodge City	0	Williston U	4	Parkersburg U.	--
Goodland	1	OHIO. Akron-Canton	6	WIS. Green Bay	26
Topeka	0	Cincinnati U.	0	Madison	16
Wichita	0	Cleveland	11	Milwaukee	44
KY. Lexington	0	Columbus	8	WYO. Casper	15
Louisville	0	Dayton	0	Cheyenne	21
LA. Baton Rouge	0	Toledo	7	Lander	18
Lake Charles	0	Youngstown	12	Sheridan	16
New Orleans	0				
Shreveport	0				



National Agricultural Summary

August 3-9, 1981

HIGHLIGHTS: Rains throughout the eastern two-thirds of the Nation improved crop conditions and promoted growth of pastures and ranges. However, the wet conditions delayed small grain harvests and haying. Extremely hot weather in the West stressed livestock. Soil moisture supplies were mostly adequate to surplus in the North Central States and short to adequate in nearly all other areas except Mississippi where supplies were very short to short. Most areas--with the exception of the North Central region--need more rain to restore soil moisture and maintain crop growth and development. Farmers in the North Central States had 2 to 5 days suitable for fieldwork. In the South Atlantic and North Atlantic region, 4 to 6 days were available. In the South Central region, 5 to 6 days were suitable while, in the West, farmers had up to 7 days available for fieldwork. Corn was generally in fair to good condition; 35% was in or past the dough stage. Harvesting was widespread in the South. Soybeans were in fair to mostly good condition; 76% of the soybeans were blooming and 44% had set pods. Winter wheat combining was 90% finished. Spring wheat harvest was 21% complete. With the exception of Idaho, progress was behind average in all States due to frequent rains which delayed harvest. Cotton was in fair to good condition; 87% of the acreage had set bolls; bolls had begun opening in some fields. Tobacco harvesting was active in major growing areas. Peach harvest was virtually finished across the South, but increased in the North. Grain sorghum heading was 64% complete. Harvesting in Texas passed the half-way mark. Rice harvest centered in Louisiana and Texas. Pastures and ranges were in fair to good condition except in parts of the Southwest and in parts of the northern Plains. Dry weather in these areas resulted in poor to fair conditions. Dry conditions in the West increased the danger of range fires.

CORN: Corn was in fair to mostly good condition, although poor to fair stands were reported in Georgia due to dry conditions. In the 17 major producing States, 35% of the crop was in or past the dough stage, 10 points behind a year earlier. Progress in Indiana and Ohio lagged the average by 30 and 20 points, respectively, due to late planting. Over one-half of the corn in the South was mature with harvesting operations becoming more widespread. Georgia's harvest was 33% complete and Alabama's harvest was 25% finished. Harvesting in Arkansas was just getting underway.

SOYBEANS: Soybeans were in fair to mostly good condition. Rainfall in the Southeast improved the condition of the crop, but more is needed to maintain growth. In the 18 major producing States, 76 percent of the crop was blooming and 44% of the crop had set pods. Development generally lagged the average, except in the Delta where it equalled or was slightly ahead of normal. In Indiana, pod set was 22 points behind average and, in Ohio, podding lagged the average by 35 points.

SMALL GRAINS: Winter wheat combining in the 15 major States was 90% complete, compared with 91% last year. Harvesting was finished in all major States except Colorado, Idaho, Missouri, Montana, Oregon, South Dakota, and Washington. Producers in the Corn Belt prepared land for planting the 1982 crop. Plowing in Indiana

reached 15% finished. Spring wheat combining in the five major producing States was 21% complete, compared with 37% last year and the average of 28%. Except in Idaho, progress was behind normal in all States due to frequent rains which delayed field operations.

COTTON: Cotton was in fair to good condition. In the 14 major producing States, 87% of the acreage had set bolls, compared with 89% last year. Boll set was finished in Arizona, Arkansas, South Carolina, and Tennessee. Bolls opened on 19% of the Arizona acreage, 13% in Georgia, 9% in Texas, 6% in Louisiana, and 3% in Tennessee. In Texas, 3% of the crop had been harvested, primarily in the Rio Grande Valley. Despite dry conditions, plants continued to show good development. Progress of the Arizona crop was two to three weeks ahead of last year.

OTHER CROPS: Grain sorghum was 64% headed, equal to last year's progress. Harvesting in Texas reached 52%, 2 points ahead of schedule. The Texas harvest was nearly complete in the Rio Grande Valley and in full swing in South Texas and the Coastal Bend area. Moisture shortages began to affect development of unharvested fields.

Rice heading was 60% complete, 5 points ahead of last year. Harvesting centered in Louisiana and Texas where progress reached 29% and 60%, respectively. Weeds caused some combining problems in Texas.

Peanuts were in fair to good condition. Harvesting was 5% complete in Mississippi.

Tobacco harvest was active in most major growing areas. Blue Mold was reported in some Kentucky fields. Virginia flue-cured markets opened.

FRUITS AND NUTS: Peach harvest was virtually complete across the South and increased in northern areas. Early apple harvest gradually increased throughout all production areas.

Florida citrus groves were in good condition. Irrigation remained active, although light rain reduced the need for irrigation. In some groves damaged by the January freeze, deadwood caused insect and disease problems. California growers harvested Gravenstein and McIntosh apples, nectarines, peaches, pears, plums, prunes, and almonds.

VEGETABLES: Northern vegetable growers picked a good supply of summer crops, including sweet corn, tomatoes, cucumbers, snap beans, beets, and carrots. Southern growers prepared land and planted fall vegetables. Florida growers planted peppers, tomatoes, and sweet corn. The California processing tomato harvest was near peak level. Growers also harvested broccoli, cauliflower, peppers, lettuce, potatoes, sweetpotatoes, and market tomatoes.

PASTURE AND RANGES: Pastures and ranges were in fair to good condition except in parts of the Southwest and in parts of the northern Plains. Conditions were poor in these areas due to dry weather. Recent rains improved conditions in the previously very dry Southeast. Dry conditions in the West increased danger of range fires. Many fires were already reported in these areas. Cattle were in fair to good condition, although heat stress presented problems in many western areas.

CROP PROGRESS FOR WEEK ENDING AUG 9, 1981

	WINTER WHEAT % HARVESTED		
	1981	1980	AVG.
CALIF	100	100	NA
COLO	98	97	98
IDAHO	31	14	17
ILL	100	100	100
IND	100	100	100
KANS	100	100	100
MO	84	100	100
MONT	35	50	50
NEBR	100	100	100
OHIO	100	100	100
OKLA	100	100	100
OREG	62	64	NA
S DAK	94	100	95
TEX	100	100	100
WASH	40	41	53
15 STATES	90	91	NA
EXCL. STATES WITH NA	90	92	92

THESE 15 STATES PRODUCED 88%
OF THE 1980 WINTER WHEAT CROP.

NA - NOT AVAILABLE

	SORGHUM % HEADED		
	1981	1980	AVG.
COLO	53	51	NA
KANS	35	35	40
MO	57	66	64
NEBR	85	80	75
OKLA	75	65	55
S DAK	49	59	49
TEX	84	87	NA
7 STATES	64	64	NA
EXCL. STATES WITH NA	53	53	53

THESE 7 STATES PRODUCED 92%
OF THE 1980 SORGHUM CROP.

NA - NOT AVAILABLE

	SPRING WHEAT % HARVESTED		
	1981	1980	AVG.
IDAHO	18	6	3
MINN	18	44	36
MONT	10	15	15
N D	13	26	18
S DAK	61	92	68
5 STATES	21	37	28

THESE 5 STATES PRODUCED 92%
OF THE 1980 SPRING WHEAT CROP.

	RICE % HEADED		
	1981	1980	AVG.
ARK	47	35	NA
CALIF	20	20	NA
LA	86	80	82
MISS	54	62	50
TEX	100	100	NA
5 STATES	60	55	NA
EXCL. STATES WITH NA	77	75	73

	RICE % HARVESTED		
	1981	1980	AVG.
ARK	0	0	0
CALIF	0	0	NA
LA	29	30	28
MISS	0	0	0
TEX	60	94	66
5 STATES	16	22	NA
EXCL. STATES WITH NA	19	27	20

THESE 5 STATES PRODUCED 98%
OF THE 1980 RICE CROP.

NA - NOT AVAILABLE

	SOYBEANS % SETTING PODS		
	1981	1980	AVG.
ALA	43	46	NA
ARK	27	20	NA
GA	42	27	NA
ILL	55	69	65
IND	25	55	57
IOWA	77	75	77
KANS	25	45	45
KY	14	25	20
LA	53	42	NA
MICH	35	45	43
MINN	53	83	68
MISS	40	46	40
MO	32	43	39
NEBR	60	80	75
N C	32	28	NA
OHIO	40	70	75
S C	17	18	21
TENN	29	32	27
18 STATES	44	53	NA
EXCL. STATES WITH NA	46	60	57

THESE 18 STATES PRODUCED 95%
OF THE 1980 SOYBEAN CROP.

NA - NOT AVAILABLE

	SOYBEANS % BLOOMING		
	1981	1980	AVG.
ALA	73	72	70
ARK	42	53	NA
GA	77	66	NA
ILL	84	96	91
IND	75	94	95
IOWA	96	93	98
KANS	65	65	NA
KY	50	78	65
LA	76	67	78
MICH	75	90	88
MINN	95	99	97
MISS	84	81	82
MO	58	78	69
NEBR	90	95	NA
N C	63	54	NA
OHIO	75	95	90
S C	60	62	60
TENN	66	79	76
18 STATES	76	82	NA
EXCL. STATES WITH NA	79	87	86

	CORN % DOUGH		
	1981	1980	AVG.
COLO	23	15	NA
GA	99	97	NA
ILL	60	71	61
IND	25	55	55
IOWA	36	37	36
KANS	45	45	50
KY	35	35	30
MICH	20	20	20
MINN	5	14	21
MO	57	65	47
NEBR	35	55	NA
N C	89	83	NA
OHIO	15	40	35
PA	22	12	16
S DAK	12	18	12
VA	66	44	NA
WIS	20	38	NA
17 STATES	35	45	NA
EXCL. STATES WITH NA	33	42	39

THESE 17 STATES PRODUCED 93%
OF THE 1980 CORN CROP.

NA - NOT AVAILABLE

	COTTON % SETTING BOLLS		
	1981	1980	AVG.
ALA	97	92	86
ARIZ	100	97	99
ARK	100	98	96
CALIF	90	70	NA
GA	97	100	99
LA	98	97	95
MISS	94	95	91
MO	89	90	81
N MEX	95	95	75
N C	89	82	NA
OKLA	65	50	45
S C	100	99	95
TENN	100	100	81
TEX	83	92	NA
14 STATES	87	89	NA
EXCL. STATES WITH NA	93	90	85

THESE 14 STATES PRODUCED 99%
OF THE 1980 COTTON CROP.

NA - NOT AVAILABLE

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 near normal. Widely varied amounts of rainfall up to 3.00 in.

Fieldwork: 5.7 days. Activities: Row crop cultivation; scouting, treating row crop pests; harvesting fruits, vegetables, corn and hay. Corn Dented 93%, 82% 1980, 77% average, mature 69%, 54% 1980; 44% average; harvested 25%, 15% 1980. Soybeans blooming 73%, 72% 1980, 70% average, setting pods 43%, 46% 1980. Cotton setting bolls 97%, 92% 1980, 86% average. Conditions: Peanuts good; corn, soybeans, cotton, sorghum, pastures fair.

ALASKA: Farmers welcome clear sunny skies, warm temperatures. Most areas in Tanana and Matanuska Valleys has 2 to 7 days suitable for haying. Harvest first crop hay completed many fields except Kenai Peninsula. Cutting second crop underway. Wind and rain damage minimal. More small grain fields turning color. Most fields remain in dough stage. Dairymen harvesting grain for silage. Supplies of greens, lettuce, and cabbage readily available. Topsoil moisture supply mostly adequate to surplus.

Tanana Valley: Above normal temperatures with a lot of sun early in the week, later mid-level clouds and a few showers.

Matanuska Valley: Periods of sun and cloudiness. Rain fell almost every day.

Kenai Peninsula: Periods of sun and cloudiness. Persistent rain.

Kodiak Island: Cloudy for Islanders with strong south winds. Rain fell towards the weekend.

ARIZONA: Scattered thundershowers again primarily confined to eastern two-thirds of State with most activity during 1st half of week. Amounts considerably less than previous weeks. Ranged from few hundredths to 0.50 in. Average temperatures 1 to 6° above normal.

Cotton continued to make rapid progress. Estimated 19% acreage had open bolls which indicates crop about 2 to 3 weeks ahead last year. Pesticide applications continued, some areas reporting increased pink bollworm populations. Earlier planted sorghum mostly reached maturity. Later plantings in jointing to heading stage development. Corn for grain southeast areas continued to make good progress. Tasseling reported all areas, 1st harvest expected early September. Alfalfa haying conditions remain above average to average although some rain damage did occur southeastern counties. Honeydew, watermelon harvest mostly completed. New crop citrus developing, sizing satisfactory. Yuma County reported limited lemon harvest to begin shortly. Citrus groves remain good condition. Southeast good water supplies, soil moisture adequate to surplus. Southwestern Deserts poor to fair, showers helping spotted areas. Mid-to-higher elevations fair to good. Mohave, Apache Counties spotty, very poor to poor. Cattle fair to good, sheep good. Water supplies, soil moisture short to adequate.

ARKANSAS: Hot temperatures first of week, cooling off by late week. Warmest areas southern and central sections. General rainfall over most of State late week. Heaviest rains in northwest. Highest temperature 109°, lowest 53°. Most rainfall 3.96 in., least 0.02 in.

All crops good condition. Rice headed 47%, 35% 1980. Soybean blooming 42%, 58% 1980; setting pods 27%, 20% 1980. Cotton setting bolls 100%,

98% 1980, 96% average. Six days suitable for fieldwork. Limited harvest of rice, corn, and sorghum. Soil moisture supplies mostly adequate. Forage cover on pastures slightly above average. Livestock good condition.

CALIFORNIA: Another dry week Statewide. Daily high temperatures went from near normal early in the week to record or near record highs by end of the week in the Central Valley. Red Bluff topped out at 121°. Net result of wide temperature fluctuations was weekly means only 1 or 2° deviant from the normal. Hot weather continues.

Rice 20% headed, 20% last year. Cotton doing well. Boll set 90%, 70% year earlier. Milo, field corn, dry beans doing well. Sugarbeets maturing normally. Alfalfa hay various stages of harvest. Crops being treated for army worms. Normal irrigation practices ongoing. Gravensteins continue. Sebastopol, McIntosh beginning Watsonville. Zante currants layed for raisins, Thompson seedless start down mid-August. Table grapes active good quality. Nectarines good supply. Clingstones full swing Marysville, sizes continue small. Freestone peaches and pears active. Plum market saturated. Prunes to begin 2 to 3 weeks. Valencias continue fair. Almond harvest underway San Joaquin Valley. Walnuts treated, some sunburn damage. Broccoli, cauliflower steady. Cantaloup harvest active Westside. Honeydew, mixed melon harvest active, ahead of last year. Bell pepper harvest active San Joaquin Valley and Coastal districts. Lettuce harvest normal Central Coast. Summer potato harvest continues Stockton, West Riverside. Sweetpotato harvest started. Market tomato harvest active San Joaquin, Salinas Valleys, South Coast. Processing tomato harvest near peak levels. Range conditions normal. Hot weather creating fire dangers and stress on livestock. Water supplies declining.

COLORADO: Scattered showers and thunderstorms during afternoon and evening hours with warm daytime temperatures. Cloudiness caused cooling on eastern Plains 6th and 7th. Otherwise temperature were slightly above normal.

Winter wheat ripe 98%, 100% 1980, 98% average. Barley turned color 87%, 85% 1980; ripe 73%, 58% 1980; harvested 55%, 48% 1980, 50% average. Corn silked 85%, 84% 1980, 86% average; dough 23%, 15% 1980; dented 37%. Summer potatoes harvested 12%, 1% 1980. Sorghum headed 53%, 51% 1980; turned color 3%, 0% 1980. Dry beans flowered 86%, 66% 1980, 75% average. Alfalfa 2nd cutting 80%, 71% 1980, 76% average; 3rd cutting 4%, 8% 1980, 11% average. Spring wheat harvested 30%, 28% 1980. Ranges and pastures fair to good condition. Livestock good condition. Six days suitable for field work.

FLORIDA: Rainfall quite general 3rd and 4th, with several places receiving 3.00 in. or more. Thundershowers became more widely scattered rest of week with most places having less than 1.00 in. of rain. High temperatures were mostly in the upper 80's, 3rd and 4th due to considerable cloud cover and rain; mostly in the 90's remainder of week. Lows mostly in the 70's.

Topsoil moisture mostly adequate. A few dry areas northeast, central. Corn harvest full swing. Tobacco harvest nearing completion. Marketing continues. Peanuts and soybeans mostly good condition. Haymaking continues as weather permits. Sugarcane fair to good condition. Frequent showers in many areas maintained or improved pastures. Conditions good to excellent some western, central Panhandle areas, most of southern Peninsula; elsewhere, poor to fair. Some pasture renovation underway. Cattle, calves mostly good condition. Citrus grove condition continues very good. Not sufficient rain to totally discontinue irrigation. Some groves with less than adequate care not showing new growth. Dead wood in some groves damaged by January freeze causing insect and disease problems. Land preparation, fall vegetables continues very active. Laying of plastic underway. Planting, transplanting tomatoes, peppers expected to gain this week. Seeding sweet corn continues in Everglades.

GEORGIA: Most temperatures 2 to 3° below normal, averaging low 70's north, near 80° south. Widespread showers, amounts variable, with average ranging near 0.50 in. north to 1.50 in. south. Weekend temperatures near normal. Scattered showers, mainly south and central with average less than 0.10 in. north and near 1.00 in. elsewhere. Amounts highly variable central and south.

Soil moisture short to adequate, considerable improvement. Five days suitable for fieldwork. Harvesting, haying and spraying major activities. Corn poor to fair, 99% dough, 97% last year, 97% dent, 89% last year, 86% mature, 75% last year, 33% harvested, 22% last year. Peanuts fair to good, 100% blooming this year, last year and average; 99% pegging this year and last year, 100% average. Soybeans fair to good, 77% blooming, 66% last year, 42% setting pods, 27% last year. Cotton fair to good, 100% squaring same last year and average; 97% setting bolls, 100% last year, 99% average; 13% open, 9% last year, average 7%. Tobacco fair to mostly good, 69% harvested, 68% last year, average 78%. Watermelons poor to fair, 91% harvested, last year and average 92%. Peaches fair to good, 89% harvested, last year 97%, average 98%. Apples fair to good, 29% picked, 25% last year. Pecans fair to good. Pastures and hay crops fair to good. Cattle and hogs fair to good.

HAWAII: A tropical storm passed through Hawaiian Chain bringing welcomed relief to the drought stricken sections, especially on Island of Hawaii. Soil moisture, irrigation reservoirs restored. Water usage restrictions eased. More new plantings anticipated. Heavy rains, other Islands interrupted farm activities temporarily. No serious crop damage. Vegetables: Supplies leafy crops still down. Others adequate. Cucumber harvest active. Bananas: Rains beneficial. Supplies light. Papayas: Supplies light. Seasonally down. Rains beneficial. Pineapples: Active harvest. Sugar: Steady harvest. Pastures: Rains adding moisture will rejuvenate some dry pastures.

IDAHO: Temperatures below normal to normal. Little if any precipitation fell. Highs 90's to 100°. Lows 40's to low 50's.

Winter wheat harvest 31%, 14% in 1980 and 17% average. Spring wheat: 18%, 6%, 3%. Barley: 18%, 16%, 14%. Alfalfa hay second cutting: 59%. Mint: 51%. Potatoes: 11% turned color. Water supplies lowering. Ranges dry. Extreme fire danger especially in east.

ILLINOIS: Temperatures up to 3° below normal. Precipitation 1.00 to 2.50 in. most of State. West and southwest 0.05 to 0.50 in.

Corn condition 34% excellent, 60% good, and 6% fair; 60% dough, 71% 1980, and 61% average; 21% dented, 23% 1980, and 22% average. Soybeans 84% blooming, 96% 1980, 91% average; 55% setting pods, 69% 1980, 65% average; condition 18% excellent, 65% good, 17% fair. Oats 97% combined, 94% 1980, 93% average. Alfalfa condition 28% excellent, 52% good, 20% fair; third cutting 30% complete, 27% 1980, 27% average. Pastures 34% excellent, 64% good, 2% fair. Soil moisture 1% short, 52% adequate, 47% surplus. Fieldwork: 3.3 days suitable.

INDIANA: Heavy rains in south. Temperatures 2° above normal ranging from 53 to 93°. Rainfall 0.50 in. in north, 1.10 in. central, and 1.80 in. south.

Fieldwork averaged 4 days. Topsoil and subsoil moisture mostly adequate. Corn, soybeans, and pastures fair to mostly good condition. Corn 75% silked, 1980 95%, average 93%. Corn 25% dough, 1980 55%, average 55%. Soybeans 75% blooming, 1980 94%, average 95%. Soybeans 25% setting pods, 1980 55%, average 57%. Plowing of 1982 wheat land 15% complete, 1980 15%, average 15%. Alfalfa hay 85% cut second time, 1980 90%, average 90%.

IOWA: Temperatures were near normal and precipitation was below normal except in the northeast and east central regions.

Topsoil moisture: 5% short, 68% adequate, 27% surplus. Subsoil moisture: 23% short, 62% adequate, 15% surplus. Corn in or past dough stage: 36%, 1980 37%, normal 36%. Soybeans bloomed: 96%, 1980 93%, normal 98%. Soybeans setting pods: 77%, 1980 75%, normal 77%. Oats harvested: 99% complete, 1980 100%, normal 98%. Second cut alfalfa hay harvested: 97% complete, 1980 100%, normal 98%. Second crop clover hay harvested: 81% complete, 1980 100%, normal 96%. Fieldwork: 3.6 days suitable. Crop conditions: Pasture, hay and soybeans mostly good, corn excellent. Livestock reported to be in mostly good to excellent condition.

KANSAS: Temperatures averaged 75 to 76° northwest and north central, 78 to 81° elsewhere, within 1° normal Statewide, except 3° below normal north central. Precipitation averaged 0.50 to 2.00 in. with 1.00 to 2.00 in. totals north central, northeast and east central.

Condition all major crops good to excellent across State, pasture also rated good to excellent. Corn progressed to 90% silking, last year 95%; dough 45%, last year 45%, average 50%. Corn dented 5%, 1980 and average 15%. Greenbug populations growing, may threaten sorghum. Sorghum headed 35%, same as last year, average 40%. Soybeans blooming 65%, same as 1980. Soybeans setting pods 25%, last year and average 45%. Farmers preparing seedbed for winter wheat where field conditions allow; 4.0 days suitable for fieldwork.

KENTUCKY: Showers and thunderstorms brought an average of 1.75 in. of rain 6th thru 8th with locally much greater amounts. Very warm early in the week, cooling late in the week, averaging a little above normal for the period.

Days suitable for fieldwork averaged: 4.8. Early planted corn good to excellent. Late planted corn fair to good. Statewide 35% has reached dough stage or beyond, same as last year and 5% above average. Fall armyworm continues to feed on corn. Soybeans fair to good. Many fields irregular in height and uneven stands. Development behind last year and average; 50% blooming, last year 78%, average 65%; 14% setting pods, last year 25%, average 20%. Tobacco condition mostly fair. Blue mold continues to spread.

Some fields being cut because of the disease. Burley tobacco 35% topped. Dark tobacco 55% topped.

LOUISIANA: Rainfall limited in north, up to 1.50 in. south. Temperatures 1 to 2° below normal.

Soil moisture short to adequate. Days suitable: 5.2. Corn mature 80%, 64% 1980, 75% average; condition good. Rice headed 86%, 80% 1980, 82% average; ripe 44%, 38% 1980, 46% average; harvested 29%, 30% 1980, 28% average; condition fair to good. Cotton setting bolls 98%, 97% 1980, 96% average; open bolls 6%; condition fair. Soybeans blooming 76%, 67% 1980, 78% average; setting pods 53%, 42% 1980; condition fair to good. Sorghum headed 91%, 86% 1980, 90% average; harvested 19%; condition fair to good. Sugarcane good condition. Vegetables rated fair. Sweetpotato harvest 18% complete, condition good. Pastures fair to good; livestock good.

MARYLAND AND DELAWARE: Maryland: Corn 95% silked; 55% dough, 35% dent; last year, 85% silked, 45% dough, 25% dent. Soybean generally good, 60% bloom, 25% podded; last year 85% bloom, 20% podded. Hay: 3rd cutting alfalfa 65%; last year second cutting of other hay complete, third cutting of other hay 30% complete. Tobacco harvest 15% completed, 5% last year. Cucumber 90%, cantaloupes 75%, sweet corn 65%, watermelon 40%, tomatoes 80%, snap beans nearly 100%. Delaware: Corn good in north poor in central and south. The 1981 crop was 95% silked, 60% dough; 1980 progress 100% silked and 88% dough with dent just beginning. Soybean 25% bloom. Hay: 3rd cutting alfalfa 80%, 90% in 1980, second cutting of other hay complete. Third cutting of other hay 75% complete. In 1980 50% was harvested. Delaware vegetable harvest: cucumbers 85%, cantaloupes 60%, sweet corn 70%, watermelon 80%, snap beans 75%, tomatoes 50%.

MICHIGAN: Warm temperatures were reported with average temperatures 1 to 3° above normal. Moderate rainfall fell with the southern portion of the Lower Peninsula being the exception. Localized shower activities failed to relieve strained moisture supplies throughout the Lower Peninsula. A week of heavy rainfall across Upper Peninsula has replenished parched supplies.

Second cutting of hay active with 70% cut. About 5 days were suitable for fieldwork. Winter wheat harvest complete. Close to 65% of the dry beans have set pods, 60% last year and 53% normal. Pods set on soybeans stand at 35%, 45% last year and 43% normal. Corn 20% in dough stage, same as last year and normal. Oat harvest active with 65% in. Summer apples 45% picked. Close to 40% of the cukes for pickles in. Potato harvest 30% complete.

MINNESOTA: Temperatures averaged near normal. Extremes: 90° at Browns Valley and 45° at Pipestone. Precipitation near normal except 0.50 to 0.75 in. above normal northeast and south central through southeast. The driest area was near the South Dakota border. Precipitation totaled 0.50 to 1.00 in. except 1.00 to 2.05 in. northeast and 1.00 to 1.50 in. south central and southeast. Maximum precipitation 4.55 in. at Faribault.

Heavy rains added to already wet conditions. First part of week favorable for drying. Topsoil moisture 8% short, 56% adequate, and 36% surplus. Swathed: Spring wheat 55%, 1980 72%, normal 58%; oats 83%, 1980 89%, normal 78%; barley 87%, 1980 88%, normal 79%; winter wheat 95%, 1980 96%, normal 92%; rye 94%, 1980 97%, normal 90%; flax 3%, 1980 7%, normal 16%. Combined: Spring wheat 18%, 1980 44%, normal 36%; oats 49%, 1980 70%, normal 58%; barley 61%, 1980 72%, normal 58%; winter

wheat 72%, 1980 82%, normal 76%; rye 63%, 1980 80%, normal 72%. In milk: Field corn 40%, 1980 72%, normal 58%. In dough: Field corn 5%, 1980 14%, normal 21%. Blooming: Soybeans 95%, 1980 99%, normal 97%; sunflowers 83%, 1980 92%, normal 79%. Setting pods: Soybeans 53%, 1980 83%, normal 68%.

MISSISSIPPI: Temperatures ranged from 5° below normal in parts of the north to 5° above normal in parts of the south. High temperature was 101°; low was 57°. State remains dry with only scattered thundershowers during the week. Greatest 24-hour rainfall was 2.26 in.

Soil moisture short to very short. Days suitable for fieldwork: 6.1. Cotton 94% setting bolls, 95% last year, 91% average; condition good to fair. Soybeans 84% blooming, 81% last year, 82% average; setting pods 40% this year and average, 46% last year; condition fair. Corn 99% in dough stage, 98% last year; 88% dented, 71% last year; 50% mature, 33% last year; condition good to fair. Rice 54% headed, 62% last year, 50% average; condition good. Sorghum 80% headed, 76% last year. Hay 80% harvested; peaches 86%; sweetpotatoes 6%; watermelons 85%; corn silage 57%; peanuts 5%. Pasture conditions fair to good.

MISSOURI: Slightly cooler than normal temperatures covered the State, except in the Bootheel, where temperatures were 1° above normal. Precipitation was spotty and in the form of summer storms. Totals ranged from less than .025 in. to over 4.00 in.

Fieldwork: 3.0 days suitable. Corn 83% silking, last year 100%, normal 82%. Corn 57% in dough stage, last year 65%, normal 47%. Corn 23% dented, last year 30%. Grain sorghum 57% headed, last year 66%, normal 64%. Soybeans 59% blooming, last year 78%, normal 69%. Soybeans 32% setting pods, last year 43%, normal 39%. Wheat 84% harvested, last year 100%, normal 100%. Oats 84% harvested, last year 100%, normal 100%. Alfalfa hay, 2nd cutting 87% harvested, last year 100%, normal 100%; 3rd cutting 32% harvested, last year 49%, normal 34%. Other hay 81% harvested, last year 100%. Cotton 89% setting bolls, last year 90%, normal 81%. Condition of soybeans and cotton fair to good. Conditions of grain sorghum good. Condition of corn and pastures good to excellent. Topsoil moisture supply adequate to surplus.

MONTANA: It was dry over west and southwest and some areas central and south central. Moderate amounts of rain fell over north central area. Northeast and southeast had generally moderate to heavy rain with 1.50 to 2.00 in. reported in some heavy showers. Some hail damage occurred again in these areas. Temperatures were very mild and ranged from 2° above normal in the west to 1° below normal in the southeast. Highest 99° at Thompson Falls, lowest 30° at Wisdom.

Topsoil and subsoil moisture short to adequate. Fieldwork: 6 days suitable. Progress of small grains in percent compared with last year and normal: Winter wheat harvested 35, 50, 50. Spring wheat turning 45, 45, 40; ripe 30, 30, 35; harvested 10, 15, 15. Barley turning 50, 40, 35; ripe 25, 30, 40; harvested 10, 20, 15. Oats turning 35, 35, 35; ripe 30, 30, 30; harvested 20, 25, 25. Second cutting alfalfa harvested 25% compared with 35% normal. Wild hay 80% harvested compared with 75% normal. Stock water supplies short eastern half State. Cattle and sheep condition good to excellent.

NEBRASKA: Temperatures: near normal Panhandle; 2 to 3° below normal central and east. Precipitation: general over State averaging 0.33 to 4.00 in.

Winter wheat 100% harvested, same as last year and normal. Dryland corn mostly good to fair; irrigated corn mostly good to excellent; silking 95%, last year 98%, normal 95%; dough 35%, last year 55%; denting 5%, last year 10%, normal 5%. Sorghum mostly good to excellent; heading 85%, last year 80%, normal 75%. Soybeans mostly good to excellent; blooming 90%, last year 95%; pods setting 60%, last year 80%, normal 75%. Alfalfa good. Pasture and range feed supplies mostly adequate to short. Topsoil moisture mostly adequate to surplus. Subsoil moisture mostly adequate to short. Days suitable: 2.5.

NEVADA: Ridge of high pressures aloft prevailed. Rising temperatures after midweek brought maximum temperatures to highest levels of summer many locations. Record highs many areas. Low night temperatures held average to near normal despite daytime heat waves. Extremes: 32 and 111°. No precipitation during week extended drought with extreme fire danger. Lightening end of period started numerous range and timber fires with widespread damage.

Good progress harvesting small grains, hay and garlic. Ranges extremely dry.

NW ENGLAND: Temperatures: early week above normal; mid late week, subnormal. Precipitation: northern Maine and northeastern Massachusetts, over 2.00 in.; other interior sections, 0.75 to 1.50 in., coastal sections, less than 0.50 in. Bulk of precipitation occurred 5th, some 6th.

Fieldwork: 4.0 days favorable. Soil moisture mostly adequate. Hay harvested: first crop, nearly complete; second crop, 49%. Potatoes: some blight, aphids, borers. Oats growing well, nearly half-turned. Apples: early varieties harvested, sizing well. Vegetables harvesting, growing well. Cranberries: sizing, coloring, good prospects. Raspberries: harvest declining, yields variable. Sweet corn 18% harvested. Good conditions: corn, oats, potato, vegetables, cranberries, raspberries. Fair condition: apples, blueberries. Grazing adequate.

NEW JERSEY: Temperatures averaged near normal. Extremes: 52° at Newton on 7th and 94° at Pomona on 5th. Rainfall 0.82 in. north, 1.66 in. central and 1.97 in. south. Heaviest 24 hour totals were: 4.39 in. at Wrightstown, 3.60 in. at Glassboro and 2.71 in. at Pemberton, all reported on 8th. Estimated soil moisture, in percent of field capacity, averaged: 67 north, 47 central and 60 south. Four inch soil temperature averaged: 74 north, 76 central and 77 south. Total sunshine at Trenton 48% of possible hours.

Fieldwork: 6.3 days suitable. Weekend rain very beneficial to many crops but subsoil moisture remains extremely short in central and southern areas. Harvest of summer vegetables continues active. Irish potato digging increasing. Sweetpotato conditions improved in response to the rain. Blueberry harvest in clean-up stage. Movement of peaches and early variety apple increasing. Cranberry prospects good. Field corn and soybeans conditions improved by the rain. Pasture and hay crops responding also.

NEW MEXICO: All areas of the state received rainfall except the extreme northwest. Temperatures averaged near normal.

Shower activity continued, leaving much of the State with an adequate supply of soil moisture. The major farm activities, when not interrupted by rain, included hay cutting, irrigating, cultivating and land preparation for winter wheat planting. Cotton in good condition. Rains have

caused good vegetative growth but slowed boll setting in some areas. Alfalfa remains in good condition but some problems with getting good quality hay occurring, due to rainfall on cut hay. Corn in good condition with tasseling 100% complete and some areas well into the dough stage. Irrigated grain sorghum in good condition with about 65% heading. Land preparation for winter wheat seeding underway. Chile and onions in good condition. Apple harvest just getting underway in the southern areas. Ranges in mostly good condition. Cattle and sheep in fair to good condition.

NEW YORK: Widespread shower activity, with heavy rain in parts of north and west, south dry. Temperatures near normal.

Wheat harvest 90% done, 75% 1980, 85% average. Oat combining 32% complete, 9% 1980, 31% average. Second cutting dry hay alfalfa 58% in, 61% 1980, 65% average. Alfalfa third cutting 5% in, 8% 1980, 7% average. Long Island potato harvest nearing 20% complete, fall cabbage and cauliflower transplanting complete. Volume harvest of Orange County lettuce and celery. Early variety apple harvest active. Pear harvest underway.

NORTH CAROLINA: Temperatures: near normal in the west to 2 to 4° above normal in the east. Precipitation: rainfall averaged 0.50 to 1.00 in.

Fieldwork: 5.3 days suitable. Soil moisture: 1% very short, 36% short, 60% adequate, 3% surplus. Conditions: pasture fair to mostly good; field tobacco mostly good; corn fair to mostly good; cotton, peanuts, soybeans, hay mostly good; sweetpotatoes, apples, peaches, and truck crops mostly good. Harvest: flue-cured tobacco 48%, 1980 32%, 42% average; corn for silage 14%, 1980 6%, 5% average; apples 3%, 1980 7%, 6% average; peaches 81%, 1980 77%, 85% average; hay 76%, 1980 71%, 75% average. Phenological stages: cotton bloomed 89%, 1980 82%; corn dough stage 89%, 1980 83%; corn dent stage 73%, 1980 59%; corn matured 36%, 1980 30%; soybeans blooming 63%, 1980 53%; soybeans setting pods 32%, 1980 28%.

NORTH DAKOTA: Below normal temperatures and above normal precipitation. Most areas received 0.75 to 2.00 in. of rain. Exception east central where average less than 0.50 in. Most rain occurred the first part of the week in heavy thunderstorms. Some areas received high winds and small hail. Temperatures averaged 1 to 3° below normal, except for northwest where temperatures were near normal. Extremes from 95° northwest to 45° northeast.

Frequent showers and wet fields again hampered small grain harvest. Activity was increasing by the weekend. Rapid progress expected this week if favorable weather holds. Some damage to swathed grain from moisture but drier weekend weather helped prevent more serious problems. Early yield and quality quite variable. Damage from earlier heat stress and diseases continues to become evident. Rains helped soil moisture levels. Only 22% short of topsoil moisture. Last year 73, average 75. Row crops also benefited from moisture. Generally in good condition. Sunflower midge and seed weevil concerns. Rust in dry beans still a problem with the damp weather. Percents combined by August 9 with last year and average: Hard red spring wheat 13, 26, 18; durum wheat 7, 11, 8; barley 40, 35, 36; oats 25, 38, 28; winter wheat 53, 84, 69; rye 64, 75, 69. Sunflower 65% bloom or beyond, 50 last year, 68 average.

OHIO: High temperatures averaged a little below normal but lows from 3 to 6° above normal. Not

much variation from day to day. Highs averaged around 80° north to low 80's south. Lows averaged mid 60's. Warm nights helped keep growing degree accumulations up. Totals ranged from around 150 to 165. Growing degree day totals average from 10 to 20 above normal. Rainfall exceeded 1.00 in. at several stations in the south and in some north central areas. Totals ranged from 0.21 to 3.12.

Corn rated fair to good. Maturity varies widely. There has been no widespread moisture stress; weather has been favorable for pollination. Soybeans rated fair to good. Bean leaf beetle populations rising in some northwest counties and expected to reach economic levels by late August. Although early planted fields look excellent, the overall crop is even further behind than corn. Cercospora leaf spot has infected sugarbeet fields. The processing tomato harvest began August 5. Quality reported good. Cucumbers for pickles harvest reached half-way mark. Corn silked 80%, 99% 1980, 95% average. Corn in dough 15%, 40% 1980, 35% average. Soybeans blooming 75%, 95% 1980, 90% average. Soybeans, pods setting 40%, 70% 1980, 75% average. Oats harvested 95%, 80% 1980, 90% average. Alfalfa, 2nd cutting 85%, 80% 1980, 90% average. All other hay, 2nd cutting 70%, 60% 1980, 65% average. Days favorable: 5.5. Pasture condition good. Soil moisture 25% short, 71% adequate, 4% surplus.

OKLAHOMA: The week started out hot in all divisions. By midweek a cool front moved through bringing rain to all areas and a cool pattern which lasted through the weekend. Highs were over 100° early in the week and the lowest readings over the weekend were in the upper 50's.

General rains improved crop and pasture conditions. Corn and sorghum good to fair condition. Soybeans, cotton and peanuts good condition. Sorghum heading: 75%, 65% 1980, 55% average. Sorghum milk to dough: 25%, 15% 1980, 25% average. Sorghum mature: 10%, 2% 1980, 2% average. Cotton squaring: 100%, 90% 1980, 95% average. Cotton setting bolls: 65%, 50% 1980, 45% average. Days suitable for fieldwork: 5.4.

OREGON: Unusually high temperatures with readings of 100 to 109°, especially in the southwestern and southeastern sections of State. Only precipitation received was along coast, with amounts ranging from traces to 0.10 in. Hot temperatures continued through weekend.

Soil moisture supplies continue to dwindle. Wheat harvest excellent; 62% this year, 64% 1980. Yields excellent in east, average or below west. Barley, peppermint, grass seed, dry peas and hay harvest continuing. Bartletts sizing well; harvest to start next week. Apricot, peach, blueberry and evergreen blackberry harvest continuing. Cranberry fungicide sprays going on. Walnut husk fly spraying started. Potatoes, beans and beets harvest continuing. Onion and early sweet corn harvest beginning. Other vegetables being harvested. Livestock condition good. Range and pastures fair to mostly good. Forage in surplus, grass over mature. Fire danger increasing with many range fires reported.

PENNSYLVANIA: Partly cloudy, warm and humid with scattered showers and thunderstorms beginning and mid-weekend. Temperatures near normal ranging from lows in the 50's and 60's to highs in the 70's and 80's most places. Extremes: 47 and 88°. Rainfall from 0.25 in. or less southwest through central mountains and central and northeast border counties to near 1.00 in. most other areas except extreme southeast where up to 5.00 in. from heavy downpours 8th that produced local flash flooding.

Four days suitable for fieldwork. Topsoil moisture adequate to short. Activities: harvesting small grains; baling straw; making hay; clipping pastures; plowing; spraying potatoes; harvesting cantaloupes, tomatoes, cabbage, sweet corn and early potatoes; harvesting apples and peaches. Barley harvest virtually complete. Wheat 91% harvested, same as last year. Oats 67% combined; last year 71%. Potatoes 13% harvested; last year 9%. Corn 58% silked and 22% in dough; last year 65% silked and 12% in dough. average 60% silked and 16% in dough. Fall plowing 5% complete; last year 12% complete. Alfalfa second cutting 71% complete; last year 76%. Alfalfa third cutting 15% complete; last year 20%. Second cutting clo-tim 44% complete; last year 45%. Hay quality fair to good. Feed from pasture average to below average.

PUERTO RICO: Island average rainfall 1.32 in. or 0.30 in. below normal. Temperatures averaged about 83 to 82° on Coasts and 80° Interior Divisions. Extremes: 95 and 61°.

SOUTH CAROLINA: Humid with heavy thundershowers last half of week. Temperatures higher in eastern and southern part of State, high in Charleston on 6th of 97°.

Soil moisture adequate. Five days for fieldwork. Corn fair condition; 97% dough stage, 92 year ago, 94 average; 71% mature, 60 year ago, 64 average; yields poor to excellent. Cotton good condition, insect pressure increasing. Soybean condition good; 60% blooming, 62 year ago, 60 average; setting pods, 17% set, 18 year ago, 21 average. Corn earworm major problem, early planted better condition than late planted. Tobacco 67% harvested, 48 last year, 70 average, quality exceptionally good. Peaches good condition, 90% harvested, 85 last year, 91 average. Ridge virtually complete. Piedmont harvesting Rio-Oso-Gems and Jeffersons. Watermelons fair to good condition, 95% harvested, 92 last year, 93 average. Cantaloups fair to good condition, 94 harvested, 91 last year.

SOUTH DAKOTA: Precipitation over most of State. Heaviest in north central, 1.50 to 2.00 in. Temperatures 1 to 5° below normal. Extremes: 95 and 48°.

Topsoil moisture short in northwest and east central areas. Adequate elsewhere. Small grain harvest behind normal for all crops. Four days suitable. Row crop condition average 89% of normal Statewide. Greenbug infestations in southern half. Some spraying. Grasshoppers problem in many parts of State. Range and pasture condition improving but still in poor condition. Second crop alfalfa 57% cut, wild hay 60% harvested. Winter wheat harvested 94%, 1980 100%, average 95%. Winter rye harvested 86%, 1980 100%, average 91%. Oats harvested 81%, 1980 94%, average 82%. Spring wheat harvested 61%, 1980 92%, average 68%. Barley harvested 80%, 1980 96%, average 83%. Flax harvested 8%, 1980 23%, average 19%. Corn tasseled 92%, 1980 94%, average 91%. Corn silked 76%, 1980 85%, average 85%. Corn dough 12%, 1980 18%, average 12%. Sorghum headed 49%, 1980 59%, average 49%. Sunflowers bloomed 51%, 1980 70%, average 57%.

TENNESSEE: Warm and humid conditions prevailed. A cold front moved through on 7th, bringing widespread thundershowers and rain. Precipitation varied across the State, ranging up to 3.40 in. Temperatures were near or slightly above normal.

Fieldwork: 4.9 days suitable. Soil moisture

decreased but still adequate. Soybeans blooming 66%, 1980 79%, average 76%. Soybeans setting pods 29%, 1980 32%, average 27%. Cotton setting bolls 100%, 1980 100%, average 81%. Cotton open bolls 3%, 1980 0, average 1%. Beneficial insects plentiful but bollworm population on the increase. Corn in dough stage 100%, 1980 100%, average 76%. Corn in dent stage 61%, 1980 51%, average 24%. Corn mature 9%, 1980 6%, average 5%. Insect spraying continues. Burley tobacco 70% topped. Burley tobacco harvest 12% completed, 1980 4%, average 5%. Dark-fired harvest 14%, 1980 1%, average 5%. Air-cured harvest 22%, 1980 0%, average 3%. Black Shank more damaging than blue mold. Pastures in fair to good condition. Lespedeza hay harvest 34%, 1980 25%, average 26%. Brown rot reported on peaches as harvesting nears completion. Vegetables plentiful and harvest continues. Weeds have been heavy in many fields.

TEXAS: Weather: Cool front brought scattered showers, thunderstorms to North Central, South Texas. Temperatures ranged from 70's High Plains, to mid 80's Lower Valley. Rainfall generally below normal, Trans-Pecos region 0.50 in. above normal.

Crops: Producers made good progress with harvest, other fieldwork. Scattered showers helpful to dryland crops, more moisture needed to relieve current conditions. Cold front helped lower temperatures across northern portion of State. Cotton harvest continued in Rio Grande Valley, yields, quality good. Harvest should be getting underway soon Coastal Bend, South Texas. From Central Texas to Blacklands insect populations building. High Plains cotton squaring, beginning to set bolls. Damage from insects light, some droppage of squares due to dry conditions. Statewide, condition 13% excellent; 64% good; and 23% fair. Despite drying, plants continue to show good growth, development. Sorghum developing well, harvest nearly complete Rio Grande Valley, in full swing South Texas, Coastal Bend. Yields good, moisture stress beginning to affect development. Blacklands, Cross-Timbers harvest active. Harvest beginning Southern Low Plains. Reported condition Statewide, 21% excellent; 66% good; 13% fair. Corn harvest good South, Central Texas. Yields good, irrigation activities stepped up High Plains. Condition Statewide, 20% excellent; 69% good; 11% fair. Northern High Plains crop remains good to excellent. Soybeans setting pods Panhandle. Coast, stands blooming, pod setting slow due to dry conditions. Rice harvest in full swing, red rice, weeds causing problems.

Commercial vegetables: Rio Grande Valley, planting of fall vegetables continued. Conditions good for planting, some fields showing growth. San Antonio-Winter Garden area, activity light, preparation for fall planting continued. East Texas, watermelon harvest continued with limited supplies. Tomato, pepper harvest active, although heat, dryness have affected yields. Trans-Pecos region, cantaloupe harvest continued with good supplies, yields, quality good. High Plains, onion, potato harvest continued, production expected to be good. Peach harvest active Northern Texas, some areas virtually complete. Quality good. Pecans continue to develop well. Cotton squaring 98%, 100% 1980. Cotton setting bolls 83%, 92% 1980. Cotton open bolls 9%, 15% 1980. Cotton harvested 3%, 7% 1980, 4% average. Rice headed 100%, 100% 1980. Rice turning color 89%, 100% 1980. Rice harvested 60%, 94% 1980, 66% average. Sorghum headed 84%, 87% 1980. Sorghum turning color 65%, 68% 1980. Sorghum mature 57%, 65% 1980. Sorghum harvested for grain 52%, 62% 1980, 50% average. Corn for grain harvested 14%, 34%

1980, 17% average. Peanuts harvested 0%, 0% 1980, 2% average. Soybeans planted 100%, 100% 1980, 100% average. Sunflowers planted 100%, 100% 1980, 100% average.

Range and livestock: With continuance of hot temperatures, little rain, grasses drying up, providing limited grazing. Livestock remain in generally good condition, some heat stress being seen. Producers busy spraying, dipping cattle, sheep for flies, other insects.

UTAH: Few isolated showers and dry thunderstorms southeast forepart period and again extreme north and southeast over weekend. Accumulated amounts moisture locally moderate to heavy with damaging hail. Strong canyon winds along Wasatch front with several serious range fires caused by dry thunderstorm activity. Average temperatures ranged between 2° below normal and 6° above.

Almost seven days were suitable for fieldwork. Soil moisture less than average. Hot dry winds sapping soil moisture from nonirrigated ranges. Fire danger extreme. Field corn making good growth, 74% tasseled. Irrigation water needed to continue crop growth. Winter wheat harvest continues, 76% complete. Barley harvest also in progress, 64% complete. Spring wheat 46% harvested, and oats 25%.

VIRGINIA: Temperatures averaged near to a little below normal. Extremes ranged from overnight lows in the 50's west to afternoon highs around 100° in the southeast. Widespread rainfall throughout the week ranged from 0.13 to 3.01 in.

Virginia flue-cured markets opened, and farmers were busy preparing for corn harvest. Topsoil moisture 40% short, 57% adequate, 3% surplus. Number of days suitable for fieldwork: 4.6. Corn in good to excellent condition; 94% silked, 85% 1980, 66% has reached dough stage, 44% 1980. Silage harvest had begun, early grain will be ready soon. Soybeans in good to excellent condition, spraying for leafspot and weeds continues, pods beginning to form. Peanuts in good to excellent condition, spraying for leafspot, moisture needed. Tobacco in good to excellent condition, growers harvesting and curing the crop. Flue-cured tobacco 23% pulled, 7% 1980, 13% average. Fire-cured tobacco 20% harvested, 2% 1980, 3% average. Burley growers have harvested 9%, 1% 1980, 2% average. Sun-cured harvest is just beginning, progress near normal. Fresh peaches and early variety apples continued to be in good supply. Pastures and hay fields welcomed recent rains and were being mowed and baled.

WASHINGTON: West: Average temperatures were 1 to 2° above normals. There was no measurable precipitation. Raspberry harvest virtually completed; blueberry harvest continued. Fresh market and vegetable seed crops continued to be harvested. Green pea harvest was over 60% complete. Tomatoes and other warm weather vegetables benefited. Hay continued to be baled while supplies of hay and pasture feed were adequate. Soil moisture ranged from fair to adequate.

East: Hot and dry. Average temperatures were about 2° above normal. No precipitation reported except in the southeast where showers dropped an average of 0.10 in. over the area. Peaches, apricots, and early maturing varieties of apples were harvested. Norgold and other early potato varieties were also harvested. Dry beans were maturing nicely. Sweet corn harvest was progressing. Grapes were in good condition. Dry pea and grass seed harvests continued. Winter wheat harvest

progressing rapidly. Spring seeded wheat and barley harvests gaining momentum. Yield for crops reported average to excellent. Fire damage has taken place with the hazard still high. This due to the hot, dry weather. Second and third cutting of alfalfa continued.

WEST VIRGINIA: Temperatures normal. Extremes: 43 and 95°. Precipitation above normal. Range 0.23 to 3.01 in.

Soil moisture adequate to short. Days worked: 3.8. Main activities: Making hay, gardening, spraying and clipping pastures. Oats good to fair condition; 82% harvested; last year 57% harvested. Corn good to fair condition; 30% pre-silked, 66% silked; 4% dough. Pastures and hay good to fair. Hay 2nd cutting 30%, 64% of normal; last year 43%, 76%. Potatoes fair to good; 17% harvested, 73% of normal. Tobacco fair. Gardens fair to good. Fruit poor to fair.

WISCONSIN: Temperatures averaged about normal. Highs mostly in the 80's and lows mostly in the 50's. Weekly high was 92° at New London and the low of 50° was reported at Baldwin. Rainfall fell over the State much of the week. The only day of the week which did not report precipitation was the 5th. Most areas of the state received 0.50 to 1.50 in. of rainfall. Heaviest rainfall reported at Palmyra which received 3.40 in. Localized dry areas persist in northeast.

Fieldwork: 4 days suitable. Weather hampered most crop harvesting across the State. Second crop hay harvest continues and is 60% complete. This compares to last year's 74%

and an average of 53%. Oat harvest 38% complete, 41% 1980, 33% average. Many fields of oats ready for harvest but weather has not been favorable. Corn crop progressing and looks very good. Corn 80% silked, 92% 1980, 76% average. Corn 20% in dough stage or beyond, this compares to 38% in 1980. Canning vegetable harvest continuing. Pasture conditions rated at 86% of normal. Tobacco in southern growing areas looks very good. Excessive rains in northern tobacco growing area has hurt some fields. Topsoil moisture supplies rated 24% short, 48% adequate and 28% surplus.

WYOMING: Most stations reported below normal temperatures. Highest temperature 100°. Lowest temperature 33°. Most stations observed below normal precipitation. Greatest amount 1.26 in.

Topsoil moisture short 54% state. Subsoil moisture short 67% state. Average 7 days suitable for fieldwork. Most winter wheat mature. Winter wheat harvested: 85%; year ago 90%; normal 84%. Spring wheat turning color: 95%; year ago 87%. Spring wheat mature: 50%; year ago 60%; normal 62%. Spring wheat harvested: 15%; year ago 50%; normal 31%. Barley mature: 75%; year ago 65%; normal 67%. Barley harvested: 30%; year ago 35%; normal 37%. Oats mature: 40%; year ago 50%; normal 49%. Corn mostly good condition; 80% tasseled; 25% silked. Dry Beans good condition; 25% setting pods. Potatoes good condition; 85% in bloom. Second cutting alfalfa harvested: 30%; year ago 45%; normal 41%. Other hay harvested: 70%; year ago 70%; normal 71%. Stock water adequate 60% state.

National Weather Summary

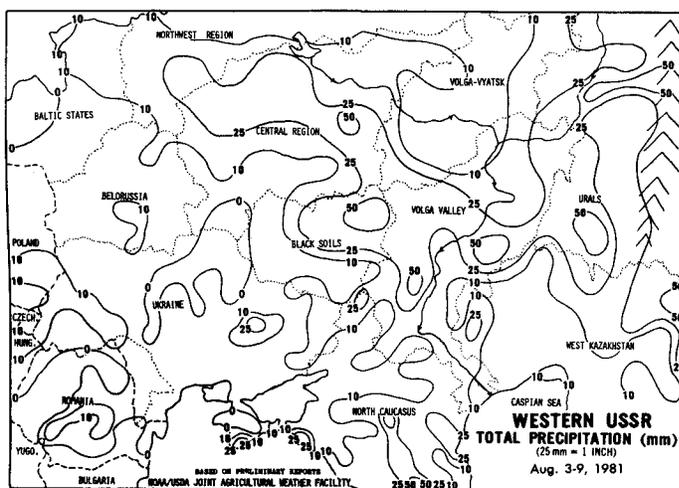
(continued from page 1.)

SUNDAY... Showers and thundershowers were scattered over the Plateau, the central Rockies, and the central Plains. The cold front moving off the east coast caused showers in New England and the Southeast. The severe heat wave in the West was getting hotter. Coastal stations in Washington reached record high temperatures. Seattle equaled its record high with 108°.

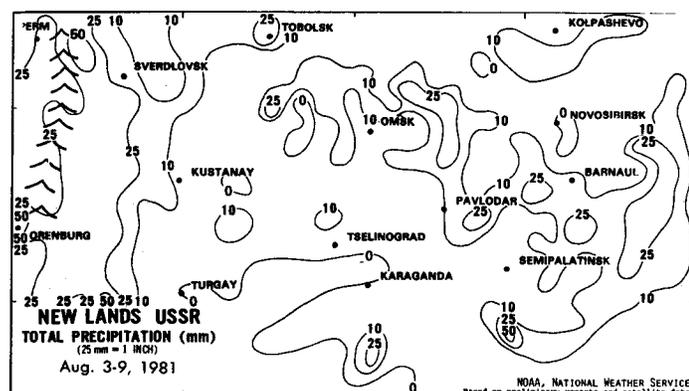
International Weather and Crop Summary

HIGHLIGHTS
August 3-9, 1981

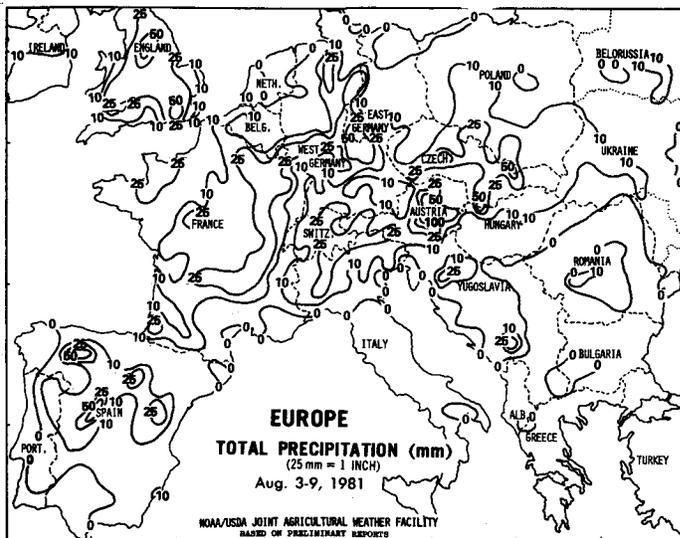
- EUROPE:** Wet in some central areas; beneficial moisture in England; too dry in the southeast.
- USSR:** European areas had near normal temperatures, with some wet weather for harvesting in the Volga Valley. New Lands received rain in the east and near the Urals.
- EASTERN ASIA:** Beneficially drier weather occurred in southern China, while conditions remained too wet in parts of Manchuria.
- SOUTH ASIA:** Heavy rains deluged central portions of India, while the north and the south turned drier.
- CANADA:** Showery weather prevailed as cereals advanced through grain-filling period.
- AUSTRALIA:** Most wheat areas received additional moisture; Queensland remained dry.
- SOUTH AMERICA:** Beneficial showers in most wheat areas. Wheat remains semi-dormant except in Brazil's northern wheat area.
- SOUTHEAST ASIA:** Monsoon showers continue.
- MEXICO:** Dry weather stressed corn and citrus crops.



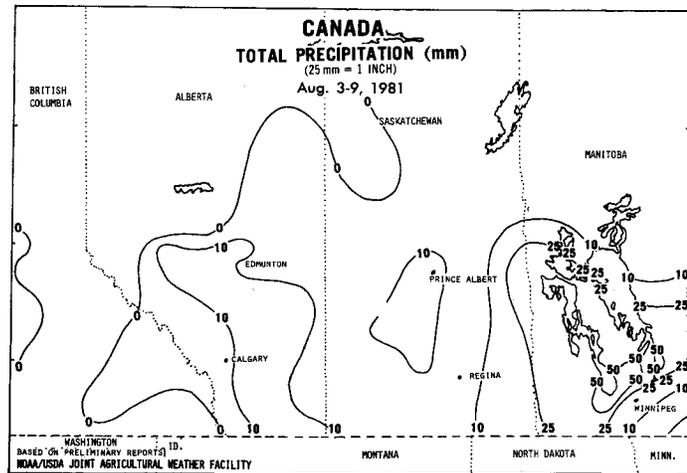
USSR: Temperatures stayed near normal over European USSR. However, many corn areas remained unfavorably dry as the crop continued through the filling stage. Abundant rainfall in the Volga Valley came too late to help spring grains, and likely interfered with harvesting somewhat. Drier



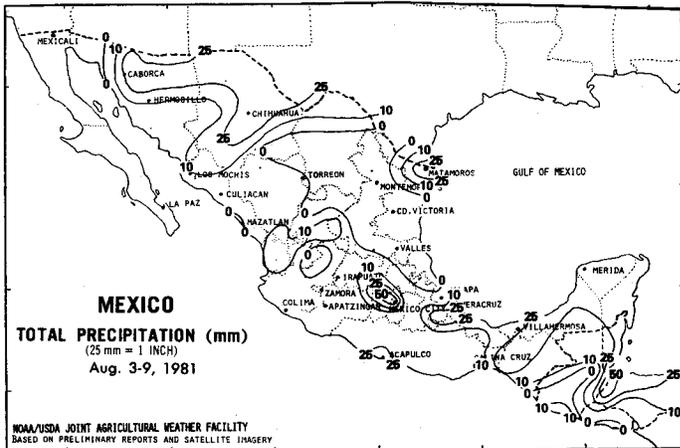
weather in western crop areas allowed the winter grain harvesting pace to pick up. In the eastern New Lands, above-normal rainfall may have benefited spring grain filling in northern portions, but the crop should be ready for harvest in the south. Most western New Lands areas turned drier. However, areas near the Urals received above-normal rainfall, disrupting the harvest in southerly portions.



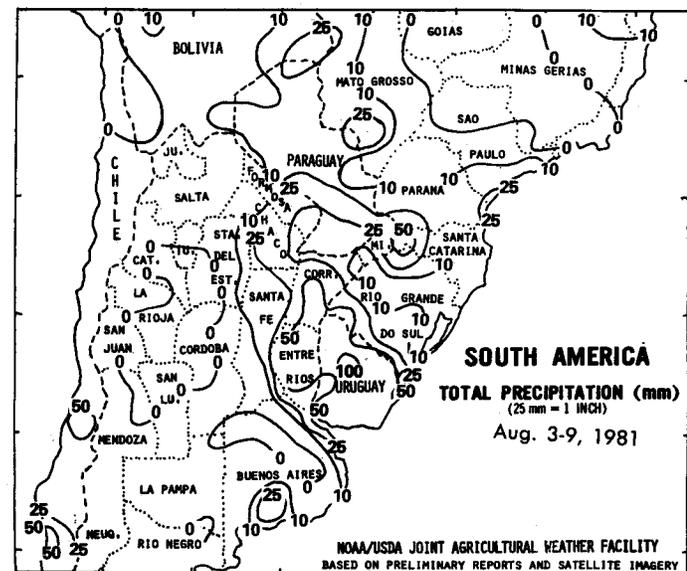
EUROPE: Rainfall increased over central Europe; few areas had above-normal amounts, minimizing disruption of the winter grain harvest, and above-normal temperatures increased drying over much of the region. Southeastern crop areas remained dry; the warm weather stressed corn in the filling stage and reduced potential yields. Rainfall continued to increase in England, raising some concern about damage from excessive rains. The moisture should have been mostly beneficial, although earlier dryness had caused some declines in winter barley yields. That crop is being harvesting now, with spring barley and winter wheat to follow shortly. Temperatures stayed near normal in England, as they did in Spain, where scattered rains occurred.



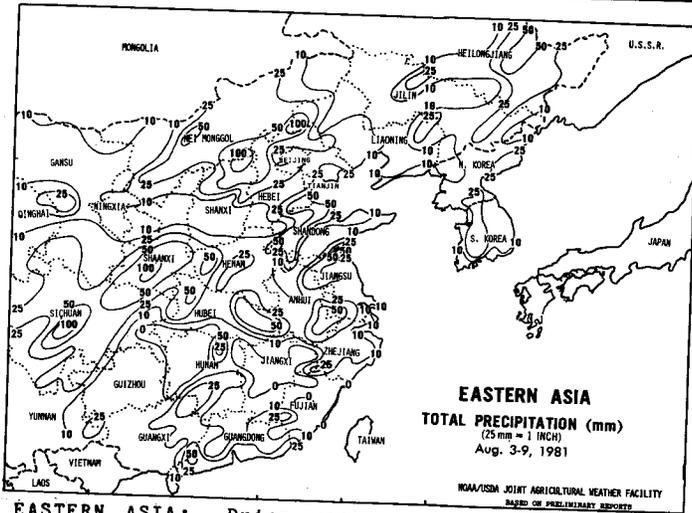
CANADA: Showers fell throughout the wheat belt in the Canadian Prairies. Heaviest amounts were found in Manitoba's crop area where 25 to 65 mm of rain fell. Locally heavy rain may have interfered with the harvest of early-maturing crops. Overall crop prospects continue favorable, especially in Alberta and much of Manitoba; crops are generally rated excellent in both provinces. Crop conditions are rated good in Saskatchewan with crop yields expected to be average throughout most of the province. Most cereals are filling and oilseeds are podding. Early crop harvests will be in full swing within the next week. Dry weather is needed for maturation and harvesting.



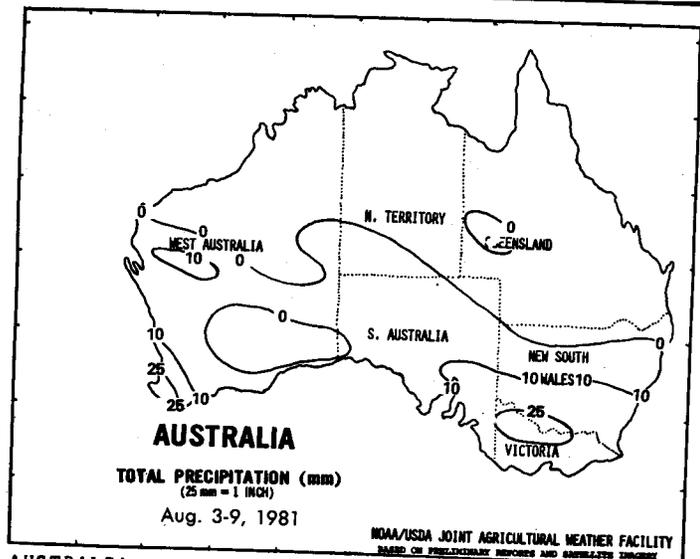
MEXICO: Dry weather continued to cause persistent stress on the citrus crop in non-irrigated citrus areas of the east and northeast. Hot, dry weather prevailed over the northern cotton areas. However, showers may have benefited crops and reduced irrigation needs in Chihuahua. Northern watersheds received modest rains. Dry weather over the southern Plateau area may have stressed corn, normally in its late reproductive stage. Corn areas in the Yucatan peninsula, however, received adequate moisture. Heavy rains continued over the sugar cane area around Veracruz.



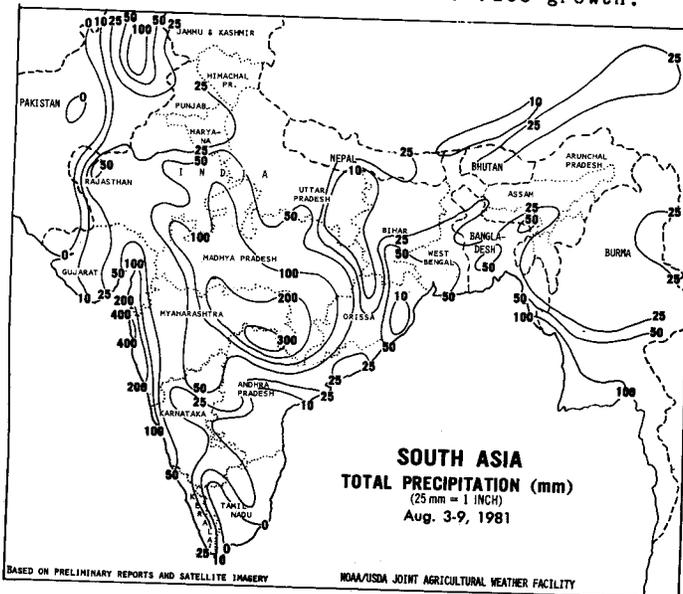
SOUTH AMERICA: The area of rainfall expanded from the previous week to encompass Uruguay, southern Brazil as far north as central Parana, and eastern Argentina, including the wheat area of southern Buenos Aires. Weekly totals varied considerably, but most wheat areas received some beneficial moisture. Minimum temperatures dropped below the freezing level only in southern Buenos Aires, but elsewhere in Argentina and Brazil, temperatures remained well above freezing. There are some indications that the July frost damaged portions of the wheat crop in the heading stage during that period. The wheat areas most affected were in Parana and Sao Paulo. No damage occurred in Rio Grande do Sul. The wheat crop should now be in the grain-filling period in northern portions of Brazil's wheat area, with harvesting to begin in early September.



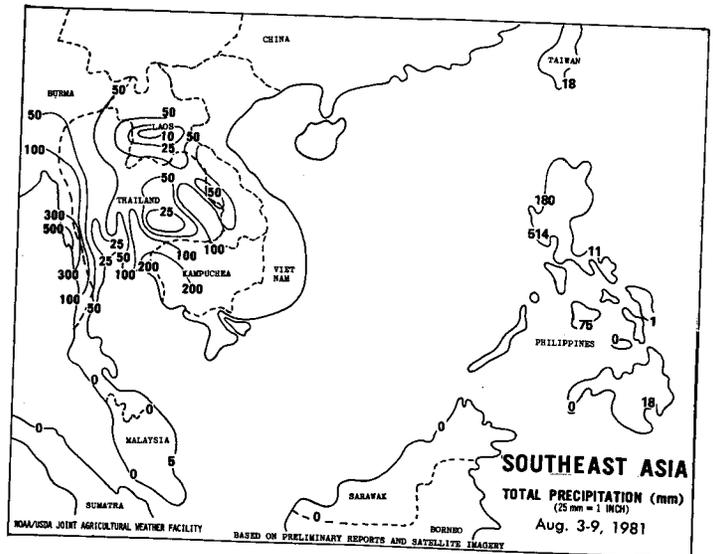
EASTERN ASIA: Drier weather returned to extreme southern China, giving the area a chance to dry out following the wet weather of recent weeks. A variable rainfall pattern across central areas was generally favorable for crop growth. The Sichuan Valley received near-normal rainfall; a recent report indicated that only 7 percent of arable land in the Valley had been flooded in mid-July. Portions of Hebei and Inner Mongolia benefited from generous rainfall, but above-normal rainfall in some eastern portions of the Manchurian Valley kept conditions too wet. Temperatures dipped below normal in these northerly areas, substantially so in some parts. Conditions remained warmer-than-normal in southern activity; reservoirs supplying both irrigation and hydroelectric power generation should benefit from seasonal rainfall. Areas bordering Thailand also received plentiful rains to favor rice growth.



AUSTRALIA: Showers provided beneficial moisture to most crop areas except for extreme northern New South Wales and Queensland. Frequent rains falling since late May over the southern portion of the continent have improved soil moisture supplies considerably over last year's. In fact, persistent shower activity has delayed sowing of wheat and barley in some isolated areas. Crop conditions are rated good to excellent in most areas. The cereal crops are usually most advanced in their growth cycle in Queensland. The dry weather of the past 2 weeks in this area will promote growth.



SOUTH ASIA: A strong storm system moved across central India late in the week, dumping heavy rainfall over a broad area in southern Madhya Pradesh, eastern Maharashtra, and northern Andhra Pradesh. Some flooding may have resulted, but on balance, agriculture in these upland areas benefited from the moisture. These rains also boosted irrigation supplies for southeastern coastal areas. At week's end, the storm was advancing into Gujarat. Rainfall slackened in the north and south of India. The northern areas needed this break from excessive rains in recent weeks. Bangladesh continued to receive moderate rainfall. Above-normal rainfall returned to northern Pakistan, maintaining favorable growing conditions and improving irrigation supplies for more southerly areas.



SOUTHEAST ASIA: Widespread showers produced significant rainfall throughout Thailand. Weekly totals varied considerably but lowest amounts were generally found near Bangkok. The rice crop continued to receive adequate moisture from frequent shower activity; reservoirs supplying both irrigation and hydroelectric power generation should benefit from seasonal rainfall. Areas bordering Thailand also received plentiful rains to favor rice growth.

