

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

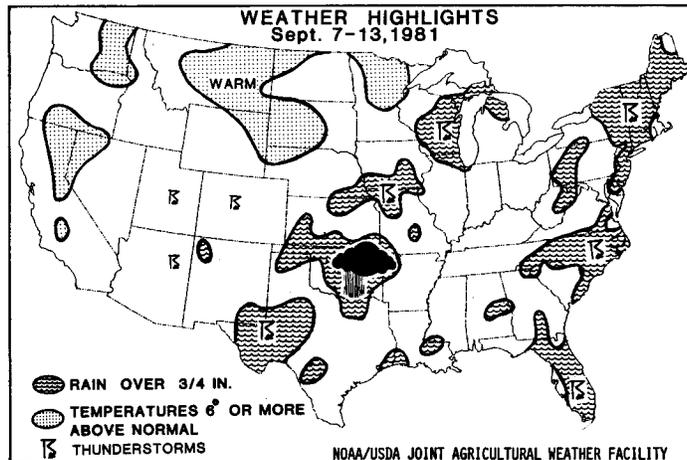
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Sept. 15, 1981

National Weather Summary

Sept. 6-12, 1981



HIGHLIGHTS: A cold front triggered heavy showers and thunderstorms early in the week from the eastern central Plains to the western Great Lakes. Lighter showers covered the area from Kentucky through the eastern Great Lakes and then moderate to heavy activity as the front moved across the eastern seaboard. Later in the week heavy showers and thunderstorms broke out in Oklahoma and spread southward to the gulf. Scattered showers and thunderstorms occurred almost every day in the central and southern Rockies and the central and southeastern Plateau region. Cooler air moved in behind the front early in the week but warmed rapidly. Areas in the northern Plains, the upper Mississippi Valley, and from central California to eastern Washington averaged over 6° above normal.

MONDAY...A cold front moved to the central Great Lakes, Arkansas, and southern New Mexico, spreading showers and thunderstorms along and ahead of it. The showers covered nearly all of eastern United States and spread north into the central Rockies. Record high temperatures were recorded in parts of the Northwest but it was cool over the midwest and most of the Plains.

TUESDAY...The cold front moved into the Northeast and through the Florida Panhandle to the gulf. Showers and thunderstorms accompanied the front. Some heavy showers occurred in New England and along the east coast. Cooler air moved in and covered most of the area east of the Mississippi River but higher temperatures spread into the Plains. Scattered showers and thunderstorms continued through central Texas and into Nevada.

WEDNESDAY...There were showers in the northeastern, southeastern, and northwestern corners of the United States and over the central Plateau. The

cold front pushed through New England and Florida, triggering showers in those areas and a weak front produced rain in western Washington and Oregon. Unstable, moist air caused widespread showers and thunderstorms through the central Plateau region and the southern Rockies. Temperatures rose to the high nineties in the northern Plains.

THURSDAY...Showers and thunderstorms continued over the Northeast, Florida peninsula, and central Rockies. Showers were frequent in the Northeast and in Florida but more scattered in the Rockies and central Plateau. High temperatures were in the eighties in the eastern portion of the Corn Belt and reached the nineties in the western portion. Record high temperatures were set in the northern Plains.

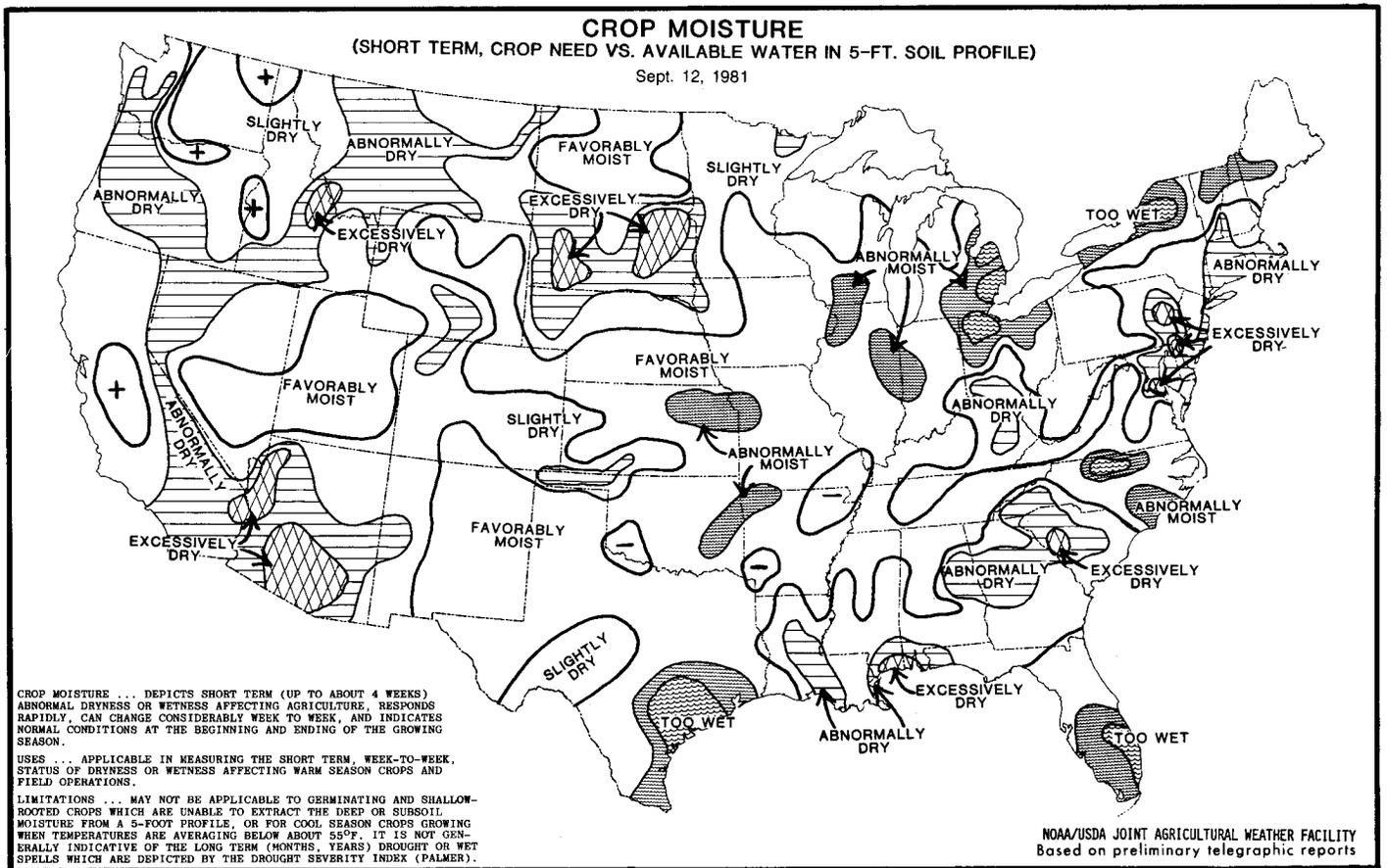
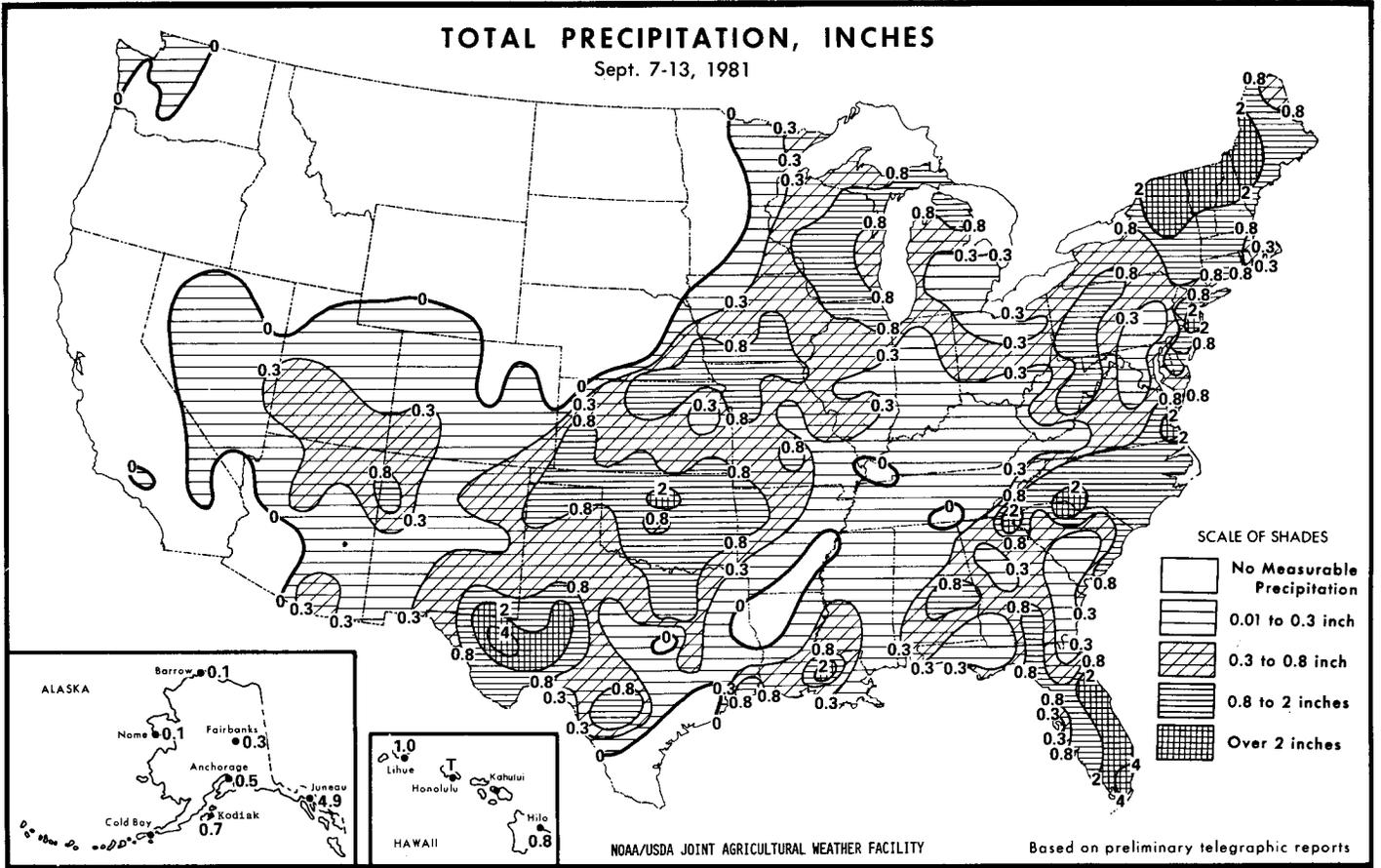
FRIDAY...Precipitation was sparse over most of the United States but there were frequent and heavy thundershowers in Oklahoma and more scattered activity in Kansas, the central and southern Rockies, and Plateau. Showers were reported in southern Florida, western New York, and upper Michigan. Temperatures cooled in the northern Rockies and Plains but remained warm over most of the Corn Belt.

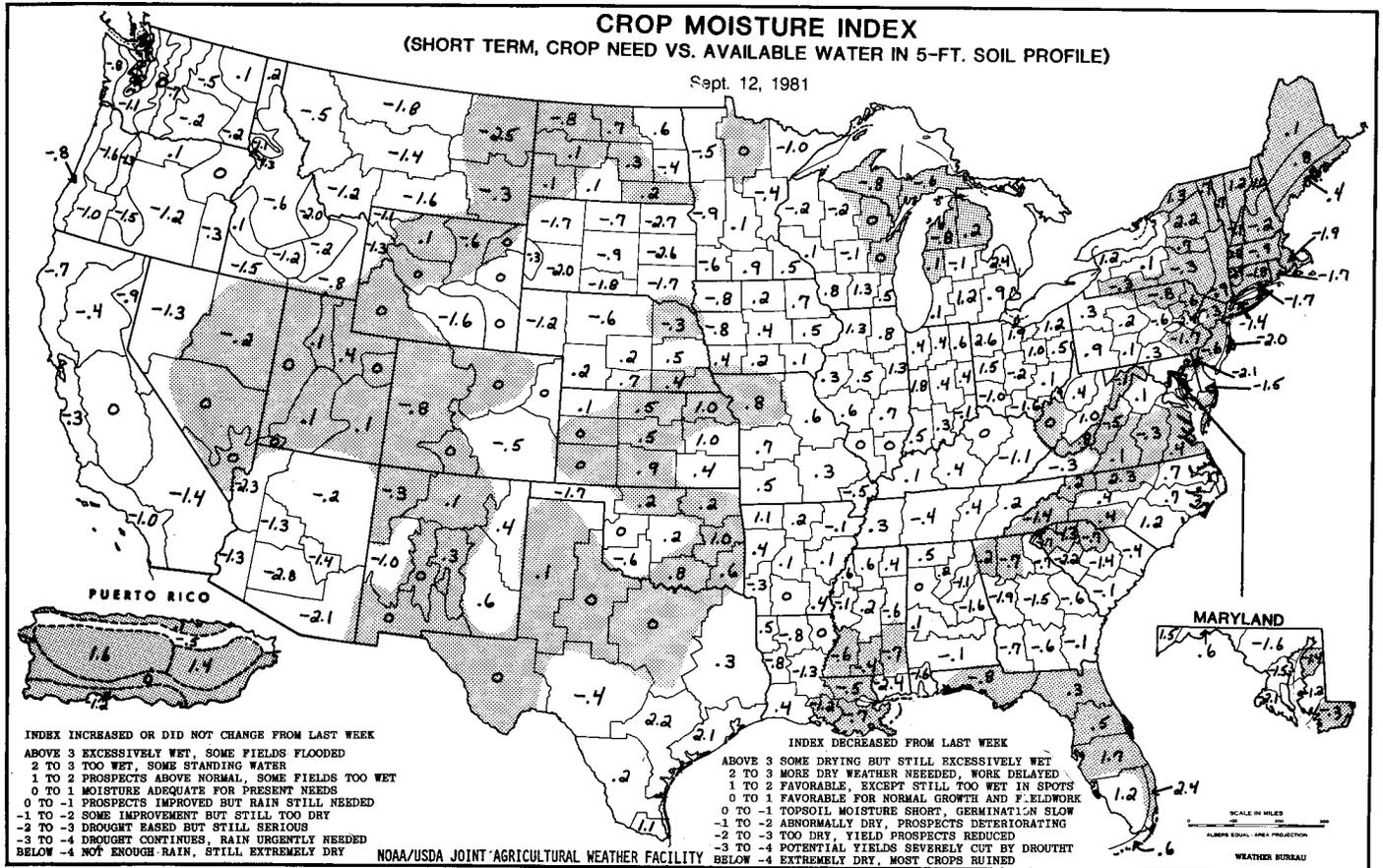
SATURDAY...A cold front caused showers and thunderstorms in the Northeast, from southern Kansas to central Texas, the central and southern Rockies, and in the central Plateau region. A few showers reached into Missouri, Arkansas, and Louisiana. Warm air pushed back across the Rockies into the northern Plains. The Corn Belt cooled to the high fifties and low sixties during the night but rose into the eighties in the afternoon.

(continued on page 21)

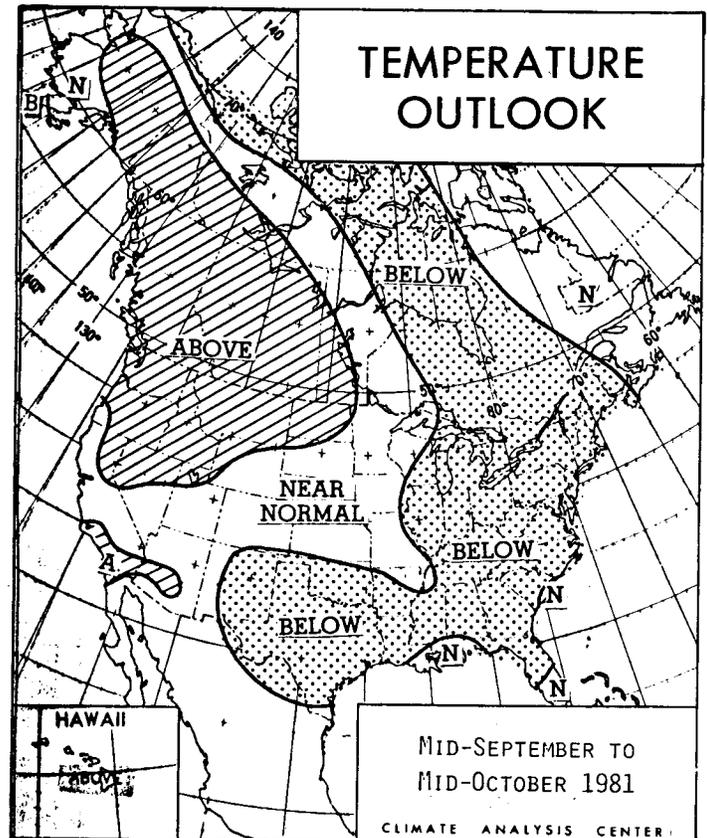
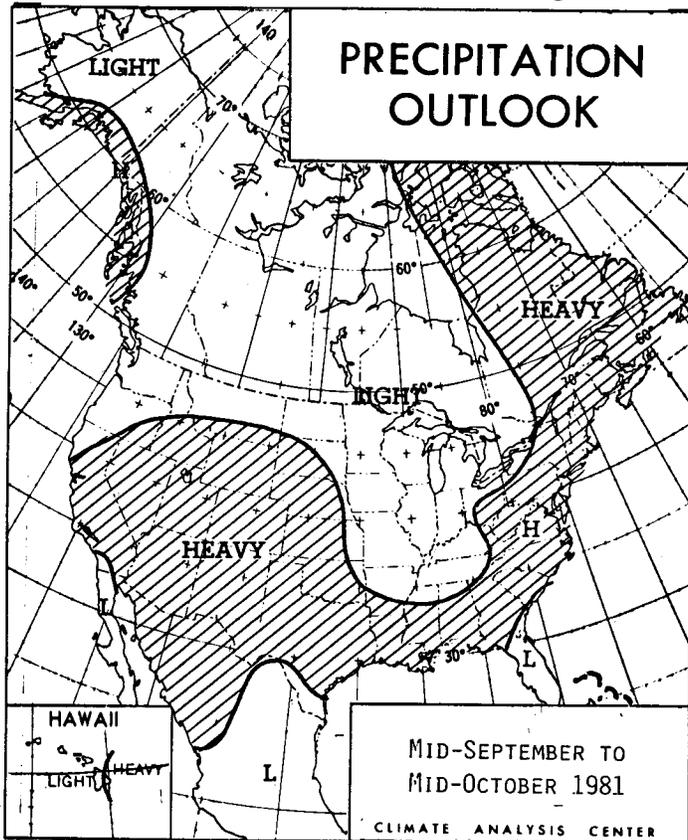
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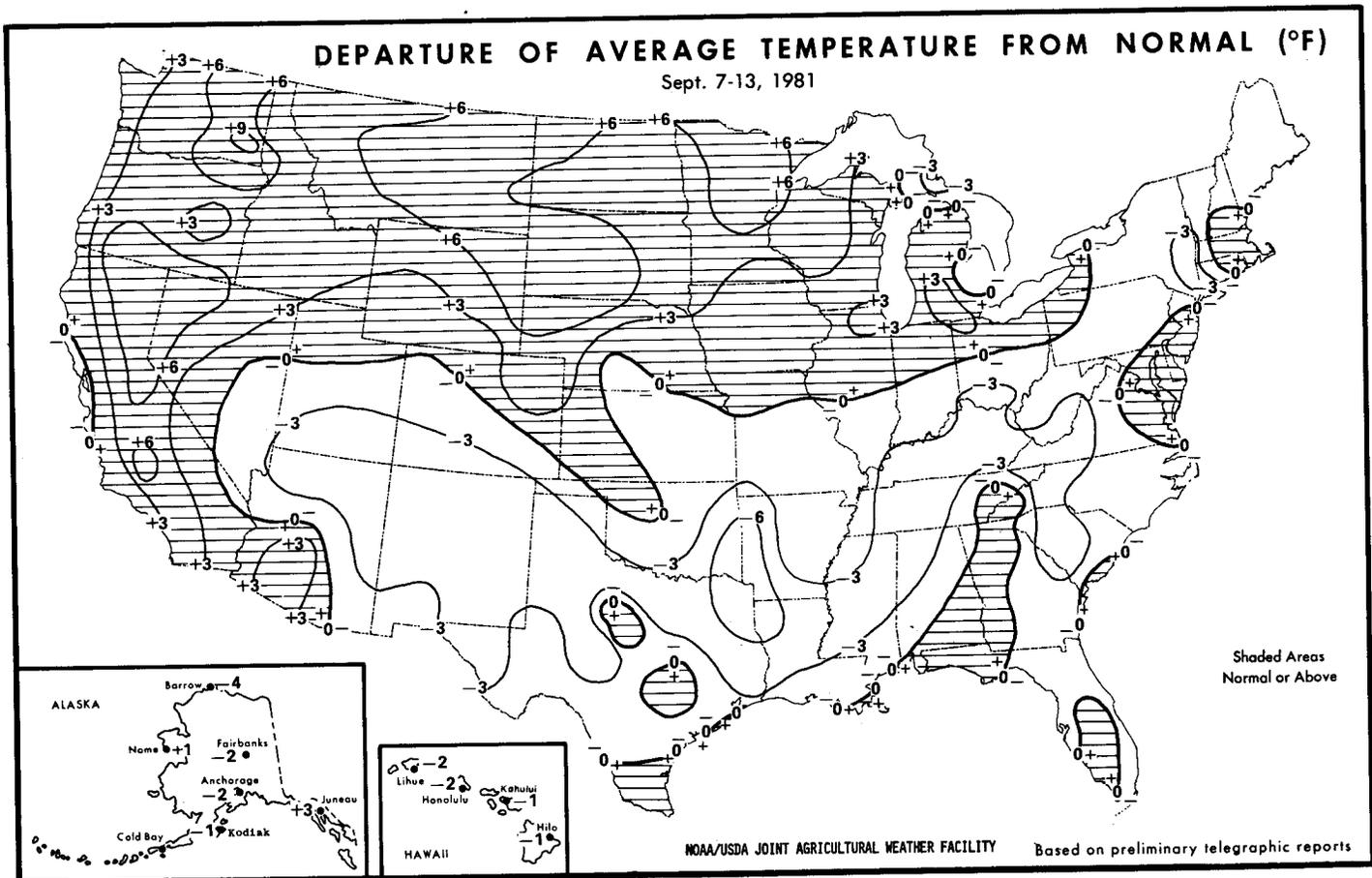
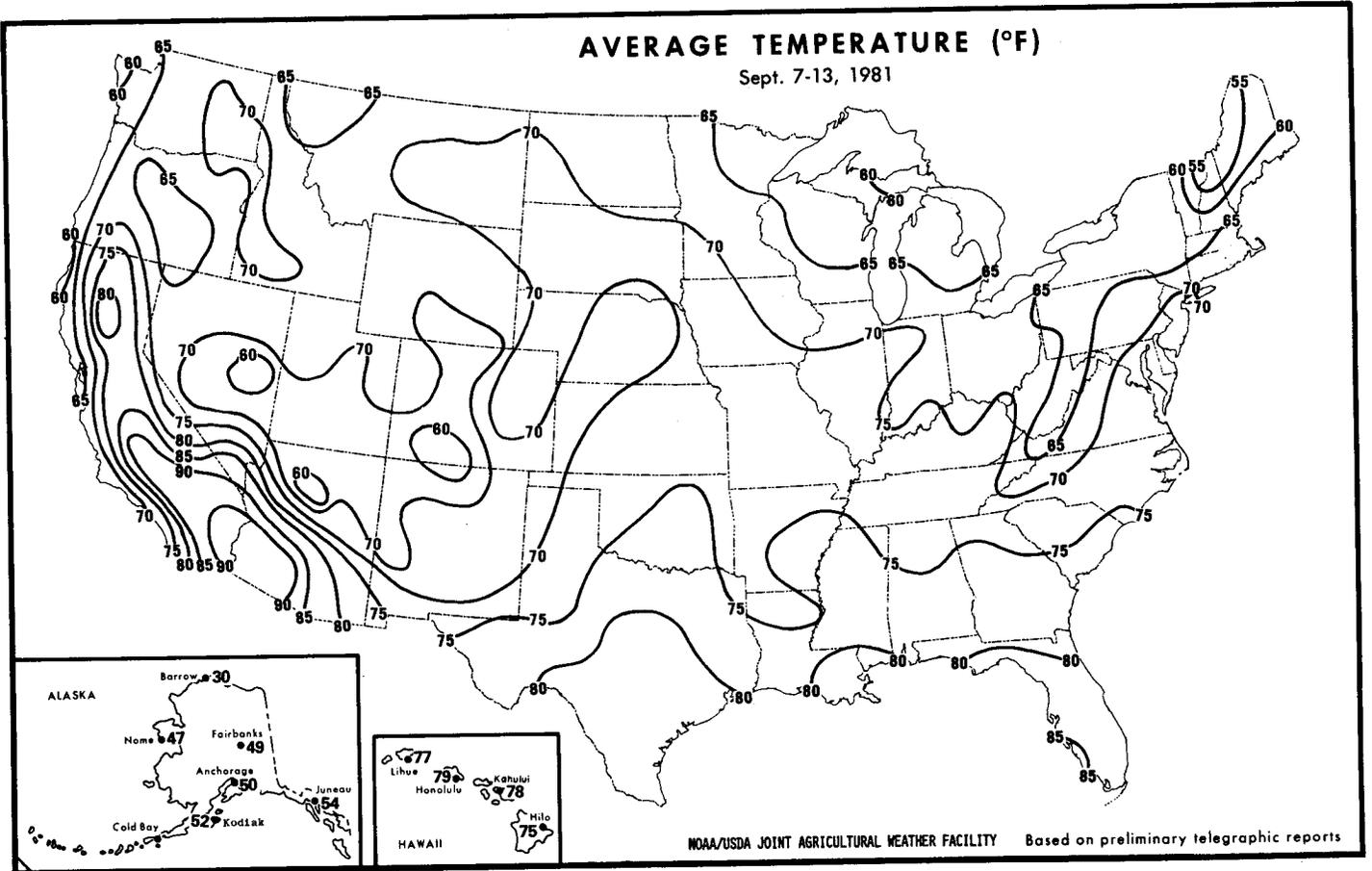
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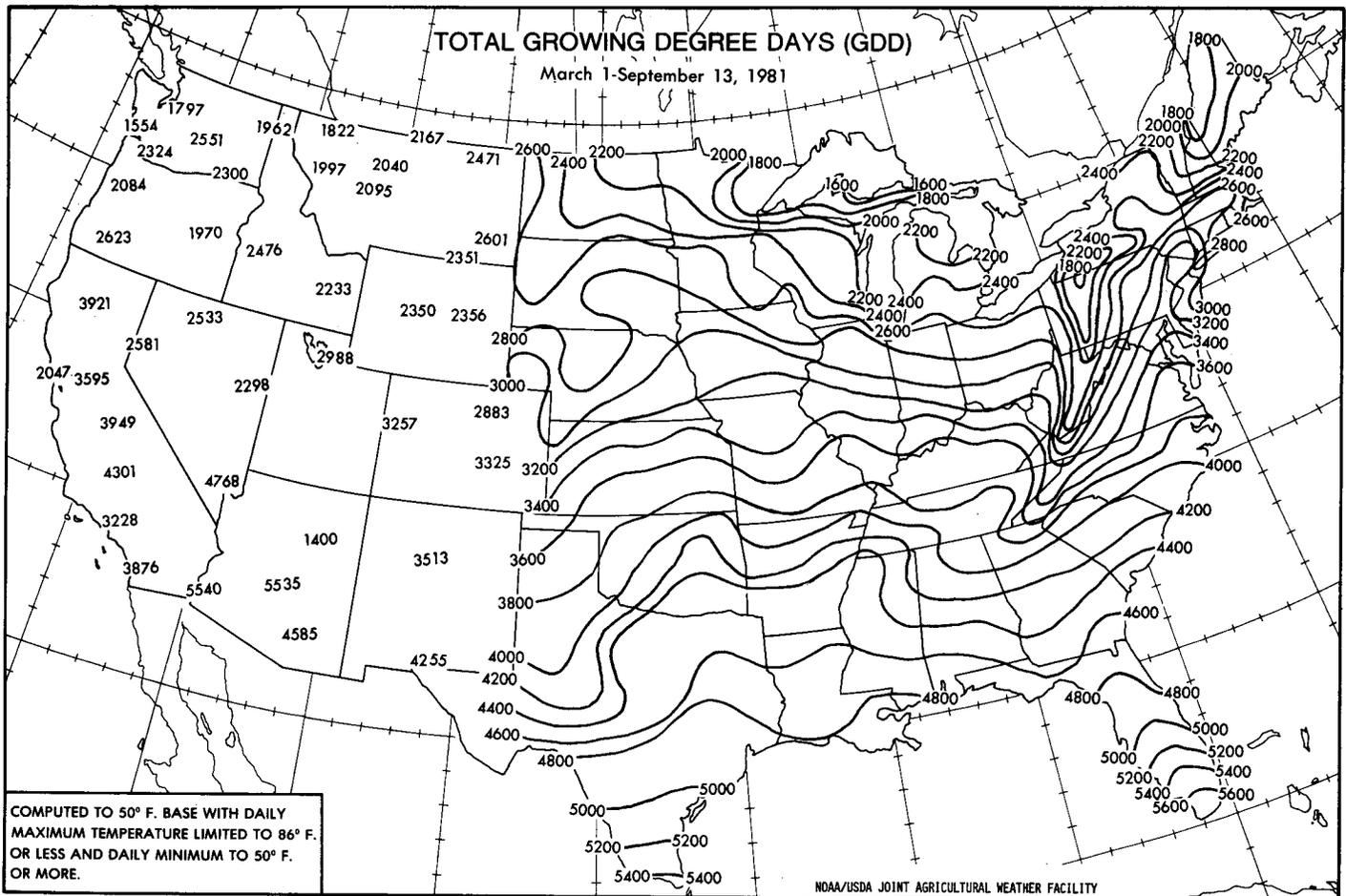
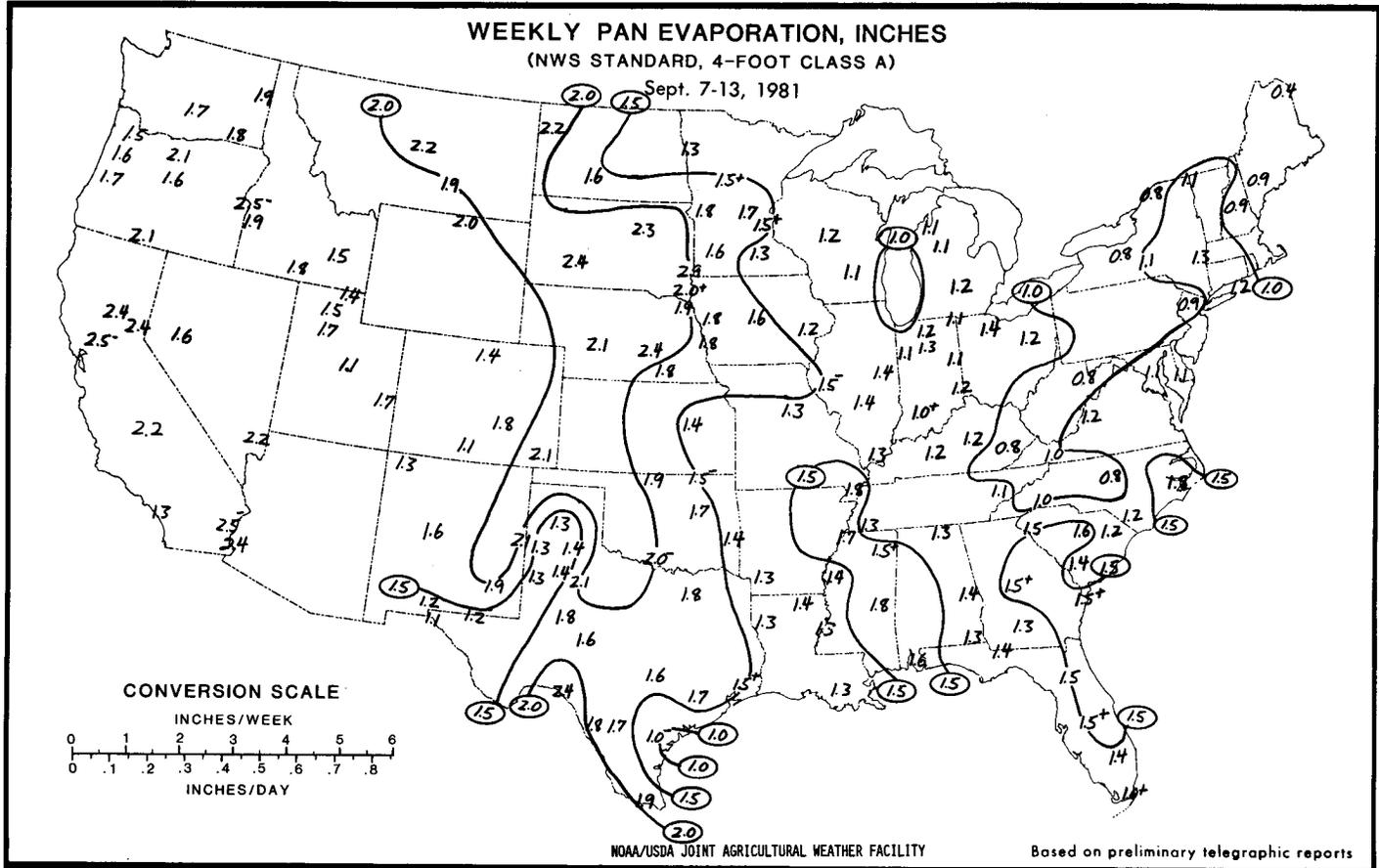




Average Monthly Weather Outlook







Weather Data for the Week Ending Sept. 13, 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 Aug. 31	PCT. NORMAL SINCE Aug. 31	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	87	61	91	54	74	-3	.2	-.8	.2	2.1	111	30.7	77	93	45	3	0	1	0
AL MOBILE	90	69	92	63	80	0	.4	-1.3	.4	3.6	109	48.1	93	87	43	4	0	1	0
AL MONTGOMERY	89	68	91	64	79	0	1.1	-.1	1.1	1.5	75	35.6	97	88	47	4	0	1	1
AK ANCHORAGE	59	41	62	25	50	-2	.5	0	.4	.8	73	13.7	140	88	54	0	1	4	0
AK BARROW	33	27	42	26	30	-4	.2	0	.1	.3	75	--	--	100	87	0	7	6	0
AK FAIRBANKS	59	38	63	24	49	-2	.3	-.1	.2	.3	38	7.4	86	96	51	0	1	3	0
AK JUNEAU	61	48	91	44	54	3	4.9	-3.5	1.8	6.8	243	34.2	105	94	71	1	0	6	4
AK KODIAK	60	45	67	37	52	-1	.7	-.6	.4	3.0	115	48.0	132	90	59	0	0	5	0
AK NOME	54	40	60	30	47	1	.1	-.6	.1	.2	14	12.2	107	81	59	0	2	2	0
AZ FLAGSTAFF	74	43	77	43	59	-2	.5	0	.2	.5	50	16.9	122	97	35	0	0	4	0
AZ PHOENIX	102	78	105	73	90	3	0	-.2	0	.1	25	4.5	92	46	18	7	0	0	0
AZ TUCSON	95	68	98	64	82	-1	.5	-.2	.5	.7	100	12.9	157	63	22	7	0	1	1
AZ WINSLOW	83	53	88	50	68	-4	1	-.2	1	.5	100	6.7	108	--	--	0	0	1	0
AZ YUMA	105	77	108	74	91	1	0	-.1	0	0	0	1.4	61	54	16	7	0	0	0
AR FORT SMITH	82	61	89	55	72	-6	1.3	-.5	.8	1.3	87	30.7	99	97	54	0	0	3	1
AR LITTLE ROCK	87	64	94	59	76	-1	.3	-.5	.3	2.1	124	34.0	98	83	44	3	0	1	0
CA BAKERSFIELD	99	73	102	71	86	7	0	0	0	0	+100	4.4	110	51	20	7	0	0	0
CA EUREKA	61	52	64	51	57	0	1	-.1	1	0	0	19.0	79	99	85	0	0	0	0
CA FRESNO	96	64	98	60	80	4	0	0	0	0	+100	7.5	107	81	25	7	0	0	0
CA LOS ANGELES	74	64	77	63	69	0	0	-.1	0	0	0	6.6	81	87	62	0	0	0	0
CA RED BLUFF	99	65	104	64	82	4	0	-.1	0	0	0	16.3	116	67	21	7	0	0	0
CA SAN DIEGO	81	69	87	66	75	4	0	0	0	0	+100	8.5	137	90	63	0	0	0	0
CA SAN FRANCISCO	69	54	72	53	62	-3	0	0	0	0	+100	12.2	99	89	59	0	0	0	0
CA STOCKTON	93	61	97	57	77	3	0	0	0	0	+100	9.2	102	74	28	6	0	0	0
CO DENVER	83	57	89	52	70	3	0	-.2	0	.2	40	10.9	88	70	24	0	0	0	0
CO GRAND JUNCTION	80	58	85	56	69	-2	1	-.2	1	.4	100	5.5	102	77	34	0	0	1	0
CO PUEBLO	83	56	90	50	70	-1	.2	-.1	.1	.4	67	6.8	64	79	29	1	0	2	0
CT BRIDGEPORT	76	57	82	48	67	-3	.5	-.2	.5	2.5	167	20.3	75	88	53	0	0	2	1
CT HARTFORD	80	55	88	42	67	1	1.3	-.4	1.3	1.4	74	20.4	68	88	38	0	0	1	1
DC WASHINGTON	86	65	93	56	75	1	.1	-.8	.1	.4	22	23.0	80	89	49	3	0	1	0
FL APALACHICOLA	88	72	89	70	80	0	.5	-1.8	.5	.6	13	30.4	69	91	63	0	0	1	0
FL DAYTONA BEACH	88	72	91	69	80	-1	2.3	-.6	2.1	4.7	142	30.0	81	95	61	1	0	2	1
FL FORT MYERS	93	77	94	74	85	2	1.5	-.6	.8	3.8	90	47.4	113	85	52	7	0	4	1
FL JACKSONVILLE	90	68	93	62	79	-1	.2	-1.7	.2	.7	18	25.6	62	97	57	4	0	1	0
FL KEY WEST	88	79	89	77	84	0	1.0	-.5	.5	3.1	97	18.4	71	93	73	0	0	4	1
FL MIAMI	90	74	93	72	82	-1	4.8	-2.9	2.3	4.9	132	37.2	88	96	60	3	0	7	2
FL ORLANDO	91	72	92	69	81	0	2.8	1.1	1.1	3.5	103	34.2	85	96	54	7	0	5	3
FL TALLAHASSEE	90	69	91	66	80	0	.1	-1.6	.1	4.0	121	40.6	84	100	52	5	0	2	0
FL TAMPA	88	71	90	68	80	-2	.3	-1.5	.2	1.0	30	29.1	72	100	62	2	0	2	0
FL WEST PALM BEACH	90	72	92	69	81	-1	3.1	1.1	2.2	3.2	74	35.0	84	97	59	3	0	4	2
GA ATLANTA	87	65	90	59	76	1	1	-.8	1	4.0	250	29.7	82	88	47	1	0	0	0
GA AUGUSTA	88	61	91	56	75	-3	.2	-.6	.2	.2	13	31.3	94	99	45	3	0	2	0
GA MACON	90	66	92	62	78	-1	.1	-.7	.1	1.4	93	34.2	100	97	45	4	0	1	0
GA SAVANNAH	88	69	93	64	78	0	.3	-1.1	.3	1.2	43	32.3	81	94	48	2	0	1	0
HI HILO	83	68	85	64	75	0	.8	-1.2	.4	2.3	64	--	--	83	60	0	0	3	0
HI HONOLULU	87	72	89	70	80	-1	1	-.1	1	.3	150	5.9	40	85	54	0	0	1	0
HI KAHULUI	88	69	92	64	79	0	0	-.1	0	-.1	100	--	--	77	51	3	0	0	0
HI LIHUE	85	68	88	66	77	-2	1.0	-.6	.9	1.5	167	--	--	97	66	0	0	4	1
ID BOISE	89	54	91	49	71	4	0	-.1	0	0	0	9.0	110	47	18	4	0	0	0
ID LEWISTON	92	57	99	52	74	7	0	-.2	0	0	0	8.9	95	57	16	3	0	0	0
ID POCATELLO	86	48	90	44	67	3	0	-.2	0	0	0	8.9	116	67	20	1	0	0	0
IL CAIRO	83	62	87	56	73	-3	0	-.9	0	.2	11	32.7	93	--	--	0	0	0	0
IL CHICAGO	79	57	86	45	68	1	1.0	-.3	1.0	1.2	86	31.6	132	97	53	0	0	1	1
IL MOLINE	81	56	88	49	69	0	.7	-.2	.7	2.3	135	25.5	93	95	54	0	0	1	1
IL PEORIA	82	59	89	51	71	1	.4	-.5	.4	1.0	59	34.3	128	97	57	0	0	1	0
IL ROCKFORD	80	57	85	47	68	1	.7	-.2	.7	3.9	205	28.2	103	98	56	0	0	1	1
IL SPRINGFIELD	83	59	90	51	71	0	.2	-.5	.2	.9	64	40.9	157	94	55	1	0	1	0
IN EVANSVILLE	82	58	87	53	70	-3	.1	-.6	1	1.3	100	34.7	111	87	50	0	0	2	0
IN FORT WAYNE	79	60	84	52	70	1	.3	-.2	.3	2.2	183	28.8	109	88	50	0	0	1	0
IN INDIANAPOLIS	81	56	87	49	68	-2	.1	-.5	.1	.6	46	29.4	102	92	49	0	0	1	0
IN SOUTH BEND	79	60	85	49	70	2	.3	-.5	.3	.4	25	29.4	111	95	57	0	0	2	0
IA BURLINGTON	81	59	87	52	70	0	.5	-.4	.5	1.3	72	34.3	130	91	51	0	0	1	0
IA DES MOINES	82	59	88	55	70	2	.6	-.2	.6	1.0	63	24.4	99	86	44	0	0	1	1
IA DUBUQUE	76	56	82	51	66	1	1	-.2	1	--	--	--	--	93	55	0	0	--	--
IA SIOUX CITY	88	54	95	48	71	3	1	-.7	1	.4	29	14.7	70	88	29	3	0	1	0
KS CONCORDIA	85	58	88	54	72	0	1.0	-.3	1.0	2.0	125	28.8	130	86	35	0	0	1	1
KS DODGE CITY	86	62	92	55	74	0	.3	-.1	.3	2.5	278	20.1	117	81	36	2	0	1	0
KS GOODLAND	85	52	91	48	69	0	1	-.4	1	.3	38	20.0	141	75	22	1	0	0	0
KS TOPEKA	85	57	89	52	71	-2	1	-.8	1	1.3	81	31.0	113	99	47	0	0	1	0
KS WICHITA	85	60	93	54	73	-2	.3	-.5	.3	1.7	106	19.0	79	89	40	1	0	1	0
KY LEXINGTON	80	58	85	50	69	-3	.1	-.6	.1	1.3	93	28.2	82	98	51	0	0	2	0
KY LOUISVILLE	83	59	87	54	71	-1	1	-.7	1	2.5	179	27.1	84	96	45	0	0	2	0
LA BATON ROUGE	89	67	92	60	78	-2	2.0	1.1	1.1	2.2	116	33.6	83	97	53	3	0	2	2

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

+100 = NORMAL & ACTUAL NEAR THE SAME

Weather Data for the Week Ending Sept. 13, 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 Aug. 31	PCT. NORMAL SINCE Aug. 31	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE		PRECIPITATION		
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE	
LAKE CHARLES	88	68	91	62	78	-3	.5	.1	.5	.4	2.6	137	42.3	105	94	52	2	0	2	0
NEW ORLEANS	90	71	93	65	81	0	.1	.1	1.3	.1	3.0	107	44.3	104	95	51	5	0	1	0
SHREVEPORT	86	61	91	55	74	-7	0	.7	.0	.0	3.5	250	33.5	103	98	50	2	0	0	0
ME CARIBOU	67	46	74	38	56	-2	.5	.3	.3	.3	.5	31	32.7	133	90	58	0	0	4	0
PORTLAND	71	50	80	41	61	-2	1.0	.3	.7	1.0	71	29.3	107	94	57	0	0	3	1	
MD BALTIMORE	83	60	89	50	71	0	.3	.5	.3	.7	44	22.5	77	77	48	0	0	1	0	
MA BOSTON	79	58	83	51	68	1	.6	.2	.2	.6	38	19.2	66	92	45	0	0	4	0	
CHATHAM	71	58	74	52	65	-1	.2	.1	.1	.3	1	26.5	77	94	67	0	0	2	0	
MI ALPENA	75	49	80	36	62	2	1.1	.3	.6	2.0	133	15.7	79	99	50	0	0	4	1	
DETROIT	78	55	85	43	67	-1	.1	.5	.1	2.4	200	22.9	97	92	47	0	0	3	0	
FLINT	75	53	82	42	64	-1	.1	.5	.1	2.8	215	23.8	107	97	53	0	0	3	0	
GRAND RAPIDS	80	55	86	43	67	1	.1	.6	.1	.1	7	29.3	127	93	50	0	0	1	0	
HOUGHTON LAKE	75	52	82	38	64	3	.3	.4	.3	.3	20	23.0	114	95	52	0	0	1	0	
LANSING	77	52	84	40	65	2	.1	.6	.1	1.4	108	21.2	95	99	54	0	0	1	0	
MARQUETTE	72	48	80	36	60	2	.5	.4	.5	.6	32	22.1	87	96	52	0	0	3	0	
MUSKOGON	76	53	80	42	64	-1	.5	.3	.5	.8	50	20.5	94	98	59	0	0	1	0	
SAULT STE. MARIE	69	43	77	29	56	-3	1.5	.6	.5	1.6	89	19.2	89	99	61	0	1	4	1	
MN DULUTH	76	52	82	48	64	6	.2	.6	.2	.3	19	20.6	89	94	43	0	0	2	0	
INT'L FALLS	76	50	83	48	63	6	.1	.8	.1	1.6	100	14.6	72	97	44	0	0	1	0	
MINNEAPOLIS	83	54	89	51	68	4	.2	.5	.2	.2	14	21.0	101	85	39	0	0	1	0	
ROCHESTER	78	52	86	49	65	2	.4	.4	.4	2.3	144	28.7	129	91	50	0	0	1	0	
SAINT CLOUD	82	50	89	56	66	4	0	.8	0	.3	19	18.5	84	85	37	0	0	0	0	
MS JACKSON	87	62	91	53	75	-4	.3	.5	.3	2.3	153	33.7	92	96	49	3	0	1	0	
MERIDIAN	91	61	94	54	76	-3	.2	.8	.1	1.3	81	31.6	81	93	41	5	0	0	0	
MO COLUMBIA	83	59	91	52	71	-1	.2	.7	.1	.6	33	39.5	140	93	54	1	0	2	0	
KANSAS CITY	83	60	88	54	72	0	1.5	.5	1.5	2.2	110	34.2	120	93	47	0	0	1	1	
SAINT LOUIS	82	63	89	56	72	-1	.5	.1	.5	1.8	150	36.5	137	97	49	0	0	1	1	
SPRINGFIELD	83	59	88	51	71	-2	.4	.4	.3	.8	42	31.6	108	95	55	0	0	2	0	
MT BILLINGS	89	54	94	50	72	8	0	.3	0	0	0	13.7	125	57	20	2	0	0	0	
GLASGOW	87	51	93	44	69	7	0	.3	0	0	0	6.7	68	48	16	3	0	0	0	
GREAT FALLS	87	50	93	43	69	7	0	.3	0	0	0	12.1	99	57	15	4	0	0	0	
HAVRE	87	46	95	43	66	5	0	.3	0	0	0	7.5	78	58	17	3	0	0	0	
HELENA	88	45	92	43	67	6	0	.3	0	0	0	11.2	126	62	15	3	0	0	0	
KALISPELL	84	39	89	34	62	4	0	.3	0	0	0	14.9	123	83	21	0	0	0	0	
MILES CITY	89	54	95	50	72	6	0	.3	0	0	0	7.6	66	51	15	3	0	0	0	
MISSOULA	87	43	92	40	65	5	0	.3	0	0	0	12.6	126	75	18	1	0	0	0	
NE GRAND ISLAND	85	53	92	49	69	-1	0	.6	0	.3	25	17.8	89	90	33	1	0	0	0	
LINCOLN	84	55	91	50	70	0	.6	.2	.6	1.3	81	17.7	80	92	42	1	0	1	1	
NORFOLK	86	53	92	46	69	2	.2	.6	.1	.8	8	16.9	83	84	27	3	0	0	0	
NORTH PLATTE	85	48	91	43	67	0	0	.5	0	.2	20	21.0	125	95	30	1	0	0	0	
OMAHA	82	59	88	56	71	2	.8	.1	.8	.9	50	22.3	91	79	48	0	0	1	1	
VALENTINE	91	49	99	44	70	4	0	.4	0	.1	11	14.5	92	82	19	4	0	0	0	
NV ELY	76	42	85	38	59	-2	.2	.1	.2	.2	100	6.1	107	87	30	0	0	4	0	
LAS VEGAS	96	69	102	65	82	-2	.2	.1	.2	.3	150	2.7	90	61	23	6	0	0	0	
RENO	90	50	93	42	70	7	.2	.1	.2	.3	0	2.8	56	63	15	5	0	0	0	
WINNEMUCCA	90	48	94	43	69	6	.2	.1	.2	.3	0	4.1	72	61	16	3	0	1	0	
NH CONCORD	75	50	80	40	62	-1	1.6	.9	.8	1.6	114	28.8	118	98	47	0	0	3	2	
NJ ATLANTIC CITY	82	60	89	49	71	1	.5	.3	.5	.6	38	25.1	77	91	45	0	0	1	1	
TRENTON	80	63	87	54	71	0	2.1	1.1	2.1	2.1	131	26.2	89	95	53	0	0	1	1	
NM ALBUQUERQUE	81	56	87	50	69	-5	.2	.2	.4	2.3	329	22.8	281	97	50	0	0	3	0	
ROSWELL	78	57	88	54	67	-7	.5	.1	.4	1.8	120	20.1	87	89	54	0	0	2	1	
NY ALBANY	74	50	80	38	62	-4	1.5	.8	1.4	1.8	173	20.6	77	89	57	0	0	2	1	
BINGHAMTON	72	53	78	43	63	-1	.6	.2	.5	2.6	173	20.6	77	89	57	0	0	2	1	
BUFFALO	72	57	78	52	65	-1	.2	.6	.2	1.8	113	25.5	103	90	53	0	0	2	0	
NEW YORK	79	65	87	56	72	0	1.5	.6	1.5	1.6	89	23.5	78	77	47	0	0	1	1	
ROCHESTER	73	54	81	49	63	-2	.5	.1	.5	2.8	233	24.4	110	97	58	0	0	4	0	
NC SYRACUSE	75	55	82	46	65	-1	.6	.1	.5	2.4	171	19.4	76	95	53	0	0	2	0	
ASHEVILLE	82	55	87	49	69	-1	.8	.2	.7	1.1	58	26.1	77	99	48	0	0	2	1	
CHARLOTTE	84	62	89	57	73	-2	2.3	1.4	1.3	3.2	200	26.5	82	93	50	0	0	2	2	
GREENSBORO	82	59	87	54	71	-2	.9	.0	.8	5.2	289	30.4	99	89	48	0	0	2	1	
HATTERAS	81	64	85	55	73	-3	.9	.6	.8	.9	30	38.6	98	94	61	0	0	2	1	
RALEIGH	82	60	85	51	71	-3	1.2	.3	1.2	2.4	126	25.6	80	96	51	0	0	2	1	
WILMINGTON	85	65	88	59	75	-2	1.0	.4	.7	1.0	34	36.4	89	96	52	0	0	2	1	
ND BISMARCK	84	50	92	47	67	4	0	.4	0	1.4	175	12.1	87	84	30	2	0	2	1	
FARGO	82	51	89	45	66	4	0	.4	0	1.0	91	13.6	81	88	34	0	0	0	0	
WILLISTON	91	49	97	46	70	8	0	.4	0	0	0	9.2	77	61	17	4	0	0	0	
OH AKRON-CANTON	77	58	84	49	67	0	.2	.4	.2	2.5	208	33.5	125	89	55	0	0	2	0	
CINCINNATI	81	55	86	49	68	-4	.1	.5	.1	1.3	108	27.2	93	92	46	0	0	2	0	
CLEVELAND	76	59	85	51	68	0	.3	.4	.3	3.5	250	28.2	106	83	53	0	0	1	0	
COLUMBUS	78	55	84	46	66	-2	.5	.1	.5	1.0	83	30.7	107	91	54	0	0	2	0	
DAYTON	79	58	85	53	69	-1	.3	.2	.2	2.5	208	32.0	121	91	50	0	0	2	0	
TOLEDO	78	57	85	44	68	0	.2	.4	.2	4.6	354	28.4	120	97	54	0	0	2	0	
YOUNGSTOWN	76	54	84	46	65	-1	.2	.4	.2	3.3	275	27.6	99	85	53	0	0	1	0	
OK OKLAHOMA CITY	86	64	93	58	75	-2	.4	.4	.3	1.5	94	28.8	118	87	43	2	0	2	0	

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

Weather Data for the Week Ending Sept. 13, 1981

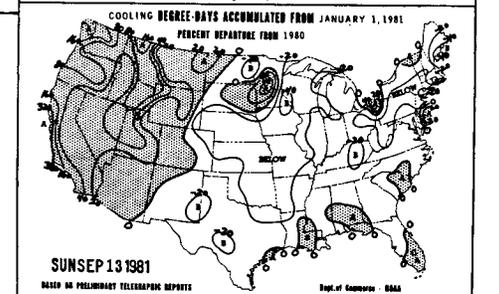
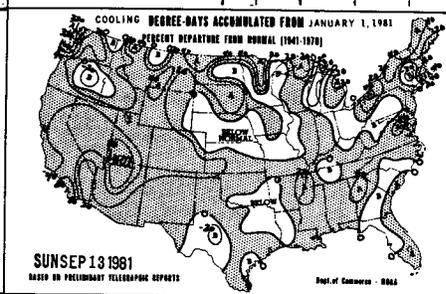
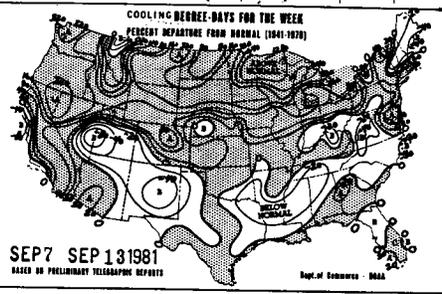
STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS					
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE AUG. 31	PCT. NORMAL SINCE AUG. 31	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	
OR TULSA	86	64	92	58	75	-2	1.3		1.1	3.0	167	27.8	100	90	52	1	0	3	1	
OR ASTORIA	70	52	74	42	61	1	T		T	.5	50	34.7	93	93	63	0	0	0	0	
BURNS	86	42	90	39	64	2	0		0	0	0	7.3	97	97	1	0	0	0	0	
MEDFORD	98	52	103	47	75	7	0		0	0	0	6.3	54	70	16	7	0	0	0	
PENDLETON	88	56	97	52	72	5	0		0	0	0	9.0	113	56	18	2	0	0	0	
PORTLAND	84	55	99	51	70	5	0		0	.1	17	15.6	74	91	39	1	0	0	0	
SALEM	85	49	99	44	67	3	0		0	.1	25	16.8	72	94	30	2	0	0	0	
PA ALLENTOWN	80	56	87	45	68	-1	.3		.3	.3	17	24.7	81	95	46	0	0	2	0	
ERIE	74	57	79	51	65	1	.4		.4	2.0	125	29.8	113	82	58	0	0	1	0	
HARRISBURG	78	57	87	45	68	-3	.1		.1	1.3	93	26.3	100	96	56	0	0	1	0	
PHILADELPHIA	81	61	87	53	71	-1	.6		.6	.6	35	26.9	93	93	50	0	0	1	1	
PITTSBURGH	78	57	82	48	67	0	1.2		.6	3.1	258	29.8	110	90	53	0	0	2	2	
SCRANTON	76	55	82	44	66	-1	.5		.2	.5	64	26.2	104	89	53	0	0	1	0	
RI PROVIDENCE	79	54	90	44	67	0	.5		.3	.5	31	21.3	74	92	41	1	0	3	0	
SC CHARLESTON	87	66	90	60	77	-1	1.1		.2	.7	42	41.6	101	97	55	1	0	2	1	
COLUMBIA	86	61	89	55	74	-4	.2		1.0	.2	9	27.9	78	98	47	0	0	2	1	
GREENVILLE	82	61	86	57	72	-3	.6		.3	.5	2.0	111	22.3	64	87	49	0	0	2	1
SD ABERDEEN	87	52	96	46	70	5	0		.4	0	0	13.2	84	86	26	3	0	0	0	
HURON	88	53	95	49	71	5	0		.4	0	1.1	138	12.5	78	97	29	2	0	0	
RAPID CITY	89	55	95	50	72	7	0		.3	0	.1	17	11.8	78	57	17	3	0	0	
SIOUX FALLS	87	53	95	46	70	4	0		.7	0	.2	14	13.8	68	78	25	2	0	0	
TN CHATTANOOGA	84	60	88	54	72	-3	0		.8	0	1.7	106	32.2	88	90	44	0	0	0	
KNOXVILLE	83	62	87	56	73	-2	T		.6	T	3.6	277	30.1	88	90	49	0	0	0	
MEMPHIS	86	65	91	59	75	-2	T		.8	T	2.9	181	30.0	82	87	45	1	0	0	
NASHVILLE	84	58	87	52	71	-5	T		.8	T	.3	19	31.7	92	89	41	0	0	0	
TX ABILENE	91	68	97	57	80	0	.2		.3	.2	.8	89	15.3	87	76	36	5	0	1	
AMARILLO	81	59	88	55	70	-4	.4		.1	.4	2.1	191	16.6	106	93	46	0	0	2	
AUSTIN	92	72	94	69	82	0	T		.8	T	1.9	112	37.0	159	78	40	6	0	1	
BEAUMONT	88	69	92	65	78	-5	.9		.3	.9	2.9	112	38.3	98	98	54	3	0	2	
BROWNSVILLE	92	74	94	72	83	0	0		1.1	0	2.9	132	24.5	150	91	53	7	0	0	
CORPUS CHRISTI	92	74	94	72	83	0	0		1.1	0	.3	14	31.6	158	90	50	7	0	0	
DEL RIO	94	71	97	66	83	-1	.1		.5	T	.2	17	20.5	174	78	47	6	0	3	
EL PASO	83	66	94	61	74	-3	.4		.2	.3	.4	80	11.7	209	92	52	2	0	3	
FORT WORTH	91	65	96	59	78	-3	.8		1.1	.7	1.7	131	28.2	117	88	39	5	0	2	
GALVESTON	87	75	92	73	81	-1	.1		1.2	.1	.4	15	26.9	91	90	57	2	0	1	
HOUSTON	91	69	94	64	80	-2	0		1.1	0	8.2	373	41.0	121	94	45	5	0	0	
LUBBOCK	82	62	88	58	72	-3	.5		0	.5	1.5	150	16.5	120	88	51	0	0	1	
MIDLAND	88	64	96	60	76	-3	1.5		1.1	.8	1.7	243	11.9	119	87	39	3	0	4	
SAN ANGELO	87	63	91	57	75	-5	1.2		.7	1.2	1.6	133	20.3	164	90	40	4	0	2	
SAN ANTONIO	92	69	94	65	81	-2	.9		.1	.9	1.0	63	27.0	137	91	47	6	0	2	
VICTORIA	91	70	93	67	81	-2	0		1.0	0	.1	5	32.4	137	93	44	5	0	0	
WACO	92	69	96	61	80	-2	0		.7	0	2.0	143	22.2	98	81	40	5	0	0	
WICHITA FALLS	93	64	101	56	79	-3	.7		.1	.7	1.3	108	22.4	109	85	33	5	0	0	
UT BLANDING	76	50	82	46	63	-4	.5		.2	.5	1.5	250	9.9	124	85	44	0	0	2	
SALT LAKE CITY	83	59	89	57	71	2	.1		1.1	T	.5	125	9.8	88	80	31	0	0	3	
VT BURLINGTON	70	52	80	43	61	-2	2.3		1.6	1.4	2.3	153	28.4	126	93	53	0	0	4	
VA LYNCHBURG	81	56	86	48	69	-3	.4		.4	.3	1.8	113	26.4	94	97	53	0	0	2	
NORFOLK	84	63	90	58	73	-1	2.8		1.6	2.4	2.8	117	29.9	89	94	49	1	0	2	
RICHMOND	86	60	92	55	73	0	.5		.4	.4	.5	28	25.9	83	93	46	2	0	2	
ROANOKE	81	57	85	47	69	-3	T		.8	T	3.9	244	22.4	79	94	46	0	0	1	
WA COLVILLE	85	47	89	40	66	3	0		.2	0	.5	125	17.0	157	75	28	0	0	0	
OMAK	92	50	98	44	71	--	0		--	0	.1	--	6.6	--	42	15	4	0	0	
QUILLAYUTE	71	48	89	38	59	1	.2		.7	.2	1.0	59	56.1	93	99	59	0	0	1	
SEATTLE-TACOMA	76	53	94	48	65	3	T		.3	T	.2	29	16.3	76	88	43	1	0	1	
SPOKANE	85	51	90	47	68	4	0		.1	0	.2	100	9.7	84	81	21	2	0	0	
WALLA-WALLA	91	59	98	55	75	6	0		.2	0	0	0	14.0	128	52	17	4	0		
YAKIMA	89	49	94	47	69	4	0		.1	0	0	0	3.3	70	78	19	4	0		
WV BECKLEY	74	52	78	43	63	-3	.1		.7	.1	4.3	253	28.6	88	97	52	0	0	1	
CHARLESTON	82	55	88	47	69	-2	.5		.2	.5	1.0	67	28.2	90	98	44	0	0	1	
HUNTINGTON	84	57	89	47	70	-1	.1		.6	.1	.9	64	30.6	103	97	40	0	0	1	
PARKERSBURG	79	57	84	45	68	-3	.1		.6	.1	3.0	214	26.6	90	91	44	0	0	1	
WI GREEN BAY	77	50	86	41	63	0	.6		.1	.6	.7	50	15.4	76	98	52	0	0	1	
LA CROSSE	81	57	86	52	69	3	1.0		.2	1.0	1.4	88	30.0	132	100	52	0	0	1	
MADISON	79	53	85	44	66	2	1.0		.2	.9	2.6	163	24.9	107	93	51	0	0	2	
MILWAUKEE	76	56	84	48	66	1	.6		.1	.6	1.0	71	23.0	107	95	51	0	0	1	
WY CASPER	85	49	90	40	67	4	0		.2	0	0	0	8.9	107	62	15	1	0		
CHEYENNE	78	50	83	44	64	2	T		.3	T	.2	40	15.1	122	75	27	0	0		
LANDER	81	50	85	45	65	2	0		.2	0	.5	125	9.4	91	63	25	0	0		
SHERIDAN	89	50	93	46	70	7	0		.3	0	.4	67	12.1	95	68	16	4	0		
PR SAN JUAN	91	78	94	76	84	3	2.4		.9	.8	2.5	83	42.1	106	95	63	5	0		

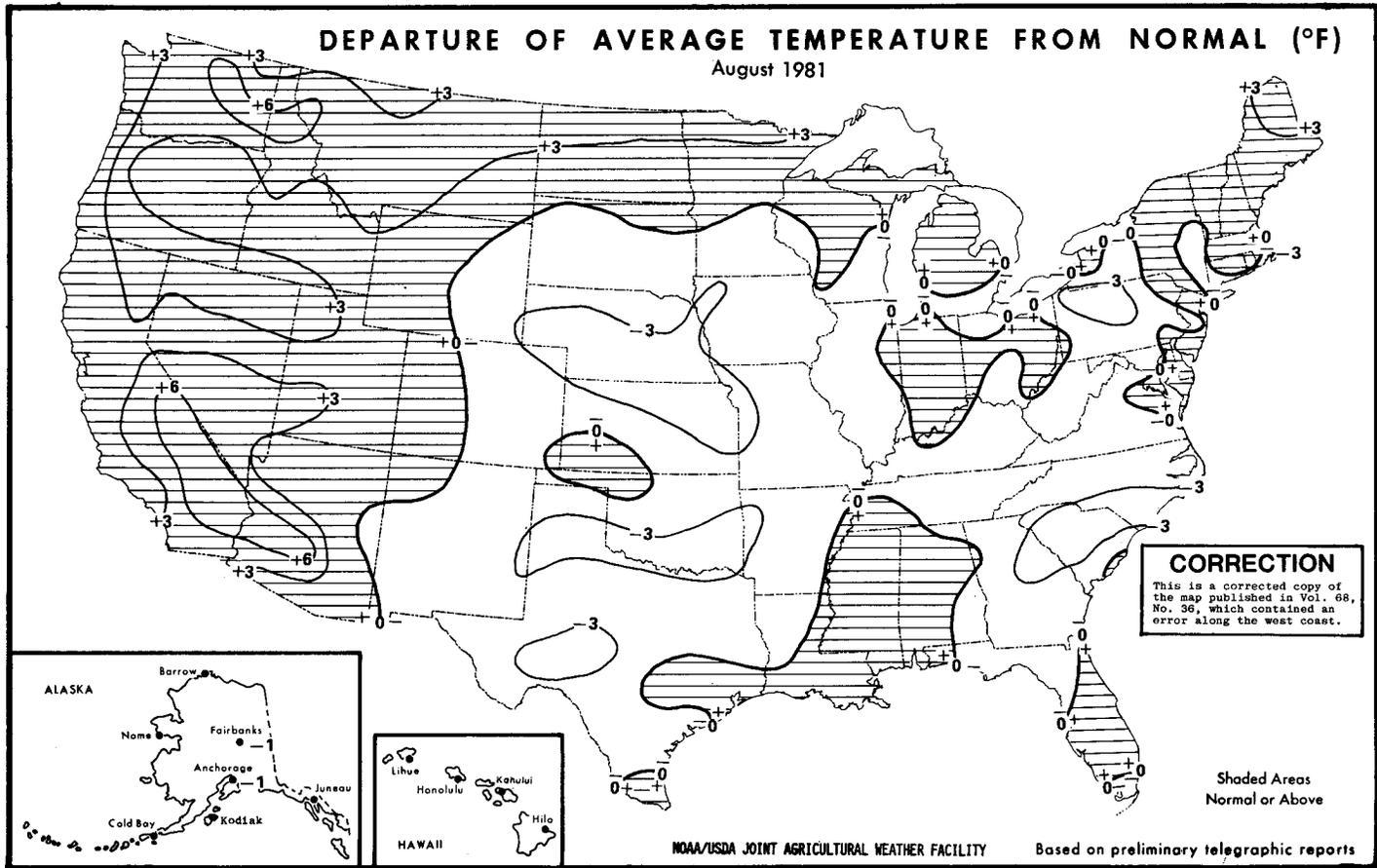
BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

COOLING DEGREE DAYS (BASE 65°) FOR WEEK ENDING SEP. 13, 1981.

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

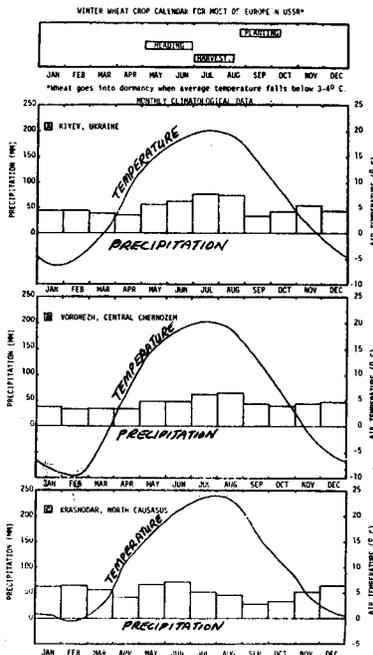
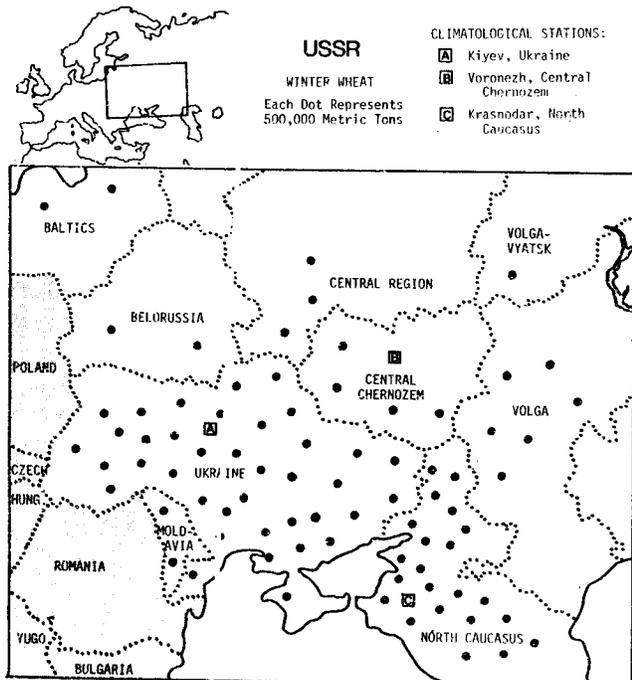
Table with columns for STATES AND STATIONS, WEEKLY ACCUMULATION, and SEASONAL ACCUMULATION. Rows list various cities across the United States with their respective cooling degree days.





MAJOR WORLD CROP AREAS AND CLIMATIC PROFILES is a new publication depicting pictorially some important global crop areas with representative long-term temperature and precipitation profiles. An example of the data, in this case the USSR winter wheat area, is shown below. The publication was

prepared by the staff of the Joint Agricultural Weather Facility (JAWF) as an aid in monitoring weather events during the growing season and identifying cumulative effects on crop development. The publication may be obtained by writing to JAWF/WAOB, USDA South Building, Washington D.C. 20250.



USSR WINTER WHEAT STATISTICS BY REGION ¹⁾ (1970/71 to 1974/75 Crop Year Average)

	Area Harvested (1,000 ha)	Yield (t/ha)	Production (1,000 T)	Exports (1,000 T)
Ukraine	6,539	2.94	19,194	48
North Caucasus	4,513	2.46	11,100	28
Volga	1,557	1.82	2,832	7
Central Chernozem	865	2.23	2,148	6
Baltics	970	1.73	1,691	4
Moldavia	236	3.18	750	2
Belorussia	344	2.13	731	2
Volga-Vyatka	260	1.57	407	1
Total	15,568	2.53	39,422	100

These regions produce about 90% of total USSR winter wheat crop.
¹⁾ Based on unofficial data; thus, totals may not exactly agree with data in table below.

USSR HISTORICAL CROP YEAR WHEAT* STATISTICS

Crop Year	Area Harvested (1,000 ha)	Yield (t/ha)	Production (1,000 T)	Ending Stocks (1,000 T)	Exports (1,000 T)
1970/71	65,230	1.53	99,734	6,000	7,203
1971/72	64,035	1.54	98,760	9,000	5,828
1972/73	58,492	1.47	85,993	11,000	1,300
1973/74	63,155	1.74	109,704	24,000	5,000
1974/75	59,676	1.41	84,113	13,000	4,100
1975/76	61,985	1.67	103,224	2,000	500
1976/77	59,467	1.03	66,882	10,000	1,000
1977/78	62,030	1.49	92,161	1,000	1,000
1978/79	62,898	1.92	120,820	19,000	4,000
1979/80	57,682	1.56	90,100	4,000	500
Average (1970/71-1979/80)	61,465	1.54	94,437	9,900	2,753

*Winter wheat comprises about 40 to 50% of total USSR wheat production (based on 1965-1974 figures) depending upon weather conditions in winter and spring wheat areas.

National Agricultural Summary

September 7-13, 1981

HIGHLIGHTS: Rain and cool weather again slowed crop development in southern parts of the Corn Belt. However, the rain was needed to maintain pastures and provide moisture for winter wheat germination. Lack of precipitation from the Pacific Northwest through the Northern Plains caused pasture deterioration and delayed winter wheat seeding. Farmers had 4 to 7 days suitable for fieldwork in all areas of the Nation. Soil moisture supplies were short to mostly adequate except in Illinois, Michigan, and Wisconsin, where they rated adequate to surplus. Corn rated good to excellent throughout much of the Corn Belt. In the 17 major States, 77% of the crop was in or past the dent stage and 28% was mature. Harvesting advanced northward into Kansas and Missouri. Soybeans were in fair to mostly good condition except in the Corn Belt where the crop was in good to excellent condition. In the 18 major States, 14% of the soybean crop was shedding leaves. Cotton condition rated fair to mostly good. Bolls were opening on 44% of the acreage. Harvesting reached the 7% mark. Spring wheat was 98% harvested. Fifteen percent of the 1982 winter wheat crop had been seeded. Grain sorghum harvest was active as far north as Kansas. Progress reached 25% in the seven major States. Rice harvest advanced to 45%. The fall apple harvest gained momentum in northern production regions. Pastures and ranges were in fair to good condition, except in the Corn Belt where good to excellent conditions were reported. Livestock moved from summer pastures in northern States.

CORN: Corn continued in good to excellent condition in much of the Corn Belt, although development continues below average in many States. The only concern in most areas is an early frost. Sunny, warm weather is needed to push the crop to maturity. The crop was mostly good in all other areas except in parts of the Southeast where poor to fair conditions were reported as a result of dry weather earlier in the season. In the 17 major producing States, 77% of the crop was in or past the dent stage and 28% was mature. The percentage of the crop reaching the mature stage was well below normal in most of the 17 major States, ranging up to 41 points behind average in Illinois. Harvesting advanced northward into Kansas and Missouri and reached 83% complete in Georgia. Harvest was ahead of schedule in many areas of the South.

SOYBEANS: Soybeans were fair to mostly good except in parts of the Corn Belt, where the crop was in good to excellent condition. In the 18 major producing States, 14% of the crop was shedding leaves, compared with 27% last year. Progress lagged last year and average in most areas except the Delta where the crop progressed slightly ahead of normal. A few early-planted fields were harvested in southern areas.

COTTON: Cotton was in fair to mostly good condition. In the 14 major States, bolls were opening on 44% of the acreage, 3 points behind last year. Harvesting was underway in about half of the States, reaching 7% complete for the major States. The Texas harvest advanced slowly as fields dried. Cool, damp weather slowed crop

maturity on the High Plains. In South Central Texas, a few fields were plowed under because of poor development.

SMALL GRAINS: Spring wheat harvesting advanced to 98%, compared with 88% last year and the 90% average. Progress ranged from 95% in Montana to 100% in South Dakota.

Seeding of the 1982 winter wheat crop reached 15% in the 15 major producing States, 1 point behind last year. Seeding was underway in all States except California, Illinois, and Ohio. In parts of Montana and the Northern Plains, producers were waiting for rain and the improved germination prospects it brings before continuing with seeding activities. In other areas of the Great Plains, soil moisture is adequate and seeding is progressing at a normal rate. Wheat seeding in Kansas moved ahead rapidly in the west central and southwest areas; growers were 10% finished Statewide.

SORGHUM: The grain sorghum harvest was 25% complete, 1 point ahead of normal. Harvesting was active as far north as Kansas. The Texas harvest was 70% finished, 5 points ahead of average. Wet fields delayed harvesting in Texas and producers made little progress.

OTHER CROPS: Rice harvest reached 45%, 3 points ahead of last year. Harvesting was finished in Texas and just getting underway in California. Progress generally exceeded last year and average.

Harvesting and marketing continued to be the major activity for tobacco growers.

Peanut digging became more widespread and harvesting picked up momentum. The percentage of the crop harvested was: Mississippi -- 29%; Georgia -- 11%; Texas -- 10%; and Alabama -- 8%.

FRUITS AND NUTS: The fall apple harvest picked up momentum in northern production regions. Red Delicious and McIntosh apples were being picked. Good weather allowed New York growers to harvest grapes. California growers harvested almonds, pistachios, and walnuts. The California grape harvest continued ahead of normal. Florida's citrus groves continued in very good condition. Moisture supplies were adequate and very little irrigation was used. The 1981/82 grapefruit harvest was underway.

VEGETABLES: Summer vegetable harvests declined and fall harvests picked up. California growers harvested broccoli, cauliflower, carrots, celery, lettuce, peppers, potatoes, sweetpotatoes, and tomatoes. Fieldwork in Florida picked up as fields dried. In the Rio Grande Valley of Texas, fall-planted vegetables made excellent progress. Rain helped promote growth in the San Antonio-Winter Garden area. Harvesting continued in other areas of Texas.

PASTURES AND RANGES: Pastures and ranges, responding to recent rains, generally rated fair to good, except in the Corn Belt where most were in good to excellent condition. Cooler temperatures and recent rains promoted growth in Texas. Livestock were in good to excellent condition. In northern States, livestock moved from summer pastures. In Montana, 10% of the cattle had been moved.

CROP PROGRESS
FOR WEEK ENDING SEPT 13, 1981

	CORN % DENT		
	1981	1980	AVG.
COLO	66	78	76
GA	100	100	NA
ILL	83	97	93
IND	60	90	85
IOWA	85	92	90
KANS	80	85	80
KY	87	94	92
MICH	75	84	80
MINN	77	93	84
MO	89	100	90
NEBR	75	90	90
N C	99	98	NA
OHIO	60	90	85
PA	74	70	63
S DAK	64	77	84
VA	93	88	NA
WIS	65	82	70
17 STATES	77	91	NA
EXCL. STATES WITH NA	76	90	86

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

	CORN % MATURE		
	1981	1980	AVG.
COLO	19	20	28
GA	99	98	NA
ILL	30	84	71
IND	15	40	40
IOWA	26	42	57
KANS	45	55	50
KY	42	58	45
MICH	15	17	18
MINN	12	27	37
MO	45	73	47
NEBR	15	30	40
N C	93	90	NA
OHIO	20	45	40
PA	21	15	10
S DAK	27	31	46
VA	90	64	NA
WIS	27	62	53
17 STATES	28	49	NA
EXCL. STATES WITH NA	24	47	48

	SOYBEAN % DROPPING LEAVES		
	1981	1980	AVG.
ALA	11	18	NA
ARK	5	35	NA
GA	10	17	NA
ILL	15	37	38
IND	8	25	30
IOWA	26	29	40
KANS	15	15	NA
KY	12	26	19
LA	13	21	NA
MICH	15	14	23
MINN	29	63	56
MISS	30	35	21
MO	2	5	9
NEBR	10	25	30
N C	2	0	NA
OHIO	15	25	30
S C	2	13	8
TENN	10	13	NA
18 STATES	14	27	NA
EXCL. STATES WITH NA	17	30	31

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

	COTTON % BOLLS OPENING		
	1981	1980	AVG.
ALA	50	47	24
ARIZ	77	74	75
ARK	47	69	33
CALIF	65	25	NA
GA	59	79	NA
LA	82	60	37
MISS	90	83	62
MO	33	82	37
N MEX	50	21	NA
N C	89	79	NA
OKLA	10	30	10
S C	63	82	66
TENN	15	60	19
TEX	30	40	NA
14 STATES	44	47	NA
EXCL. STATES WITH NA	58	65	43

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

	COTTON % HARVESTED		
	1981	1980	AVG.
ALA	1	2	1
ARIZ	1	0	NA
ARK	4	2	3
CALIF	0	0	0
GA	8	16	4
LA	5	4	NA
MISS	5	1	3
MO	0	10	0
N MEX	0	0	0
N C	0	0	0
OKLA	0	0	0
S C	1	7	2
TENN	0	8	4
TEX	11	17	14
14 STATES	7	10	NA
EXCL. STATES WITH NA	7	11	9

	RICE % HARVESTED		
	1981	1980	AVG.
ARK	24	16	12
CALIF	1	1	NA
LA	86	82	81
MISS	22	39	23
TEX	100	100	99
5 STATES	45	42	NA
EXCL. STATES WITH NA	54	51	47

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

	WINTER WHEAT % PLANTED		
	1981	1980	AVG.
CALIF	0	2	1
COLO	40	57	71
IDAHO	9	9	12
ILL	0	2	1
IND	2	1	2
KANS	10	10	10
MO	2	2	0
MONT	10	30	40
NEBR	30	35	30
OHIO	0	0	0
OKLA	15	7	9
OREG	2	4	NA
S DAK	41	58	50
TEX	13	17	20
WASH	37	29	20
15 STATES	15	16	NA
EXCL. STATES WITH NA	15	17	18

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

	SPRING WHEAT % HARVESTED		
	1981	1980	AVG.
IDAHO	97	78	73
MINN	99	99	99
MONT	95	80	85
N D	98	82	85
S DAK	100	100	100
5 STATES	98	88	90

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

	SORGHUM % MATURE		
	1981	1980	AVG.
COLO	13	4	12
KANS	10	15	20
MO	38	49	45
NEBR	5	45	35
OKLA	45	35	45
S DAK	21	17	17
TEX	71	75	NA
7 STATES	34	43	NA
EXCL. STATES WITH NA	15	26	27
	SORGHUM % HARVESTED		
	1981	1980	AVG.
COLO	0	0	0
KANS	1	5	5
MO	13	17	8
NEBR	0	3	0
OKLA	7	3	6
S DAK	0	0	0
TEX	70	71	65
7 STATES	25	28	24

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

NA - NOT AVAILABLE

SEPTEMBER CROP PRODUCTION HIGHLIGHTS

CORN production is forecast at a record high 7.94 billion bushels (202 million metric tons), 3 percent more than the August 1 forecast and 19 percent more than a year ago. The September 1 estimate is up fractionally from the previous record set in 1979. The 90 percent confidence interval for the September 1 production forecast is 7.24 to 8.64 billion bushels.

SORGHUM GRAIN production is forecast at 864 million bushels (21.9 million metric tons), up 47 percent from last year's small crop.

FEED GRAIN production (corn, sorghum, oats, and barley combined) is expected to total 241 million metric tons, up 22 percent from 1980.

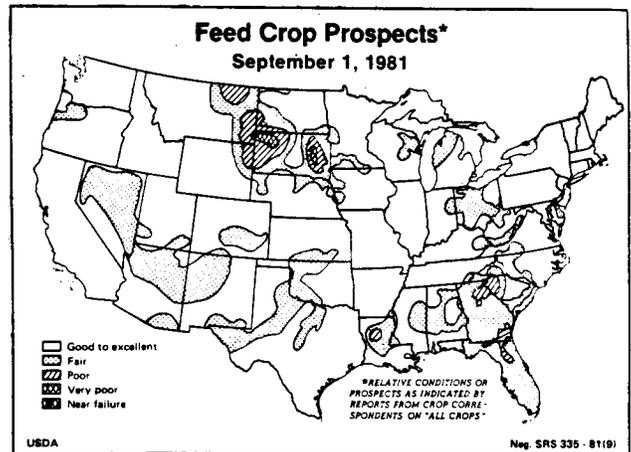
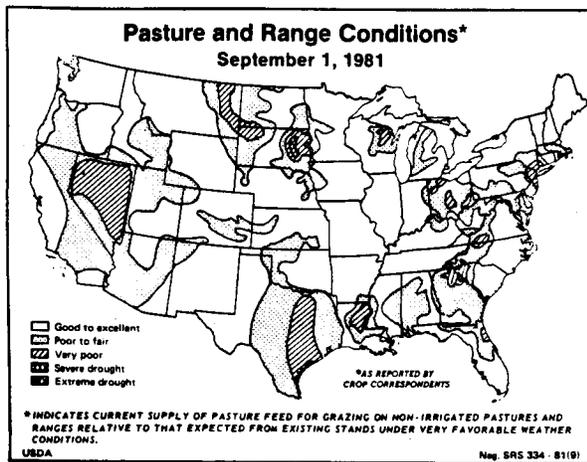
SOYBEAN production is estimated at 2.09 billion bushels (56.9 million metric tons), up 4 percent from August 1 and 15 percent above last year's crop. The 90 percent confidence interval for this 1981 production forecast is 1.94 to 2.24 billion bushels.

ALL WHEAT production is forecast at a record high 2.75 billion bushels (74.8 million metric tons), 16 percent more than last year. Durum wheat production, up 73 percent, other spring wheat, up 36 percent and winter wheat production, up 9 percent from last year. The 90 percent confidence interval for this all wheat production forecast is 2.69 to 2.81 billion bushels.

FOOD GRAIN production (wheat, rye and rice combined) is expected to total 83.4 million metric tons, 17 percent above 1980.

ALL COTTON production is forecast at 15.5 million bales, 5 percent above the August 1 forecast and 39 percent more than production in 1980. The 90 percent confidence interval for this 1981 production forecast is 13.6 to 17.4 million bales.

ALL TOBACCO production is forecast at 1.97 billion pounds (896 thousand metric tons), up 11 percent from the 1.78 billion pounds (809 thousand metric tons) produced in 1980.



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 1 to 8° below normal northern third, near normal elsewhere. Rains light; most accumulation 1.06 in. Montgomery.

Fieldwork: 5.7 days. Soil moisture short to adequate. Activities: Corn, peanut, hay, fruit, vegetable harvest; treating for row crop pests; livestock, poultry care. Corn 73% harvested, 58% 1980, 89% average. Soybeans: 99% setting pods, 97% 1980; 29% leaves turning, 46% 1980, 32% average; 11% dropping leaves, 18% 1980; 5% mature, 9% 1980, 13% average. Cotton: 50% bolls open, 47% 1980, 24% average; 1% harvested, 2% 1980, 1% average. Peanuts: 14% dug, 4% 1980, 23% average; 8% combined, 7% 1980, 17% average. Conditions: Peanuts, soybeans mostly good; cotton, sorghum mostly fair; pastures fair. Podworm infestation reported double-cropped beans northern areas.

ALASKA: Partly sunny skies and above normal temperatures provided good harvesting conditions throughout the Railbelt. Suitable days for haying and combining grain varied 4 to 7°. Barley combining made excellent progress early seeded fields. Nearly 25% of barley crop harvested. Last year wet weather and high moisture grain continued slow harvest. Moisture content grain varied 14 to 17%. Grain silage and hay harvesting continued weather permitting. Second crop hay harvesting 75% complete. Potato digging gained momentum. Ground moisture supplies generally adequate or better.

Tanana Valley: Another mild fall week with slightly above normal temperatures. Rainfall fairly well distributed throughout the valley all week long.

Matanuska Valley and Kenai Peninsula: A rather wet but mild week. Temperatures still running a little above normal.

Kodiak Island: Temperatures continue to hover just above normal. Almost 0.75 in. of rain fell.

ARIZONA: Rainfall very light, mostly Mogollon Rim, White Mountains. Precipitation trace to around 0.50 in. Average temperatures 4° below to 4° above normal.

Cotton growth, boll maturity increasing rate, ahead normal, 77% open bolls compared 74% last year. Pesticides applied as needed. Limited picking underway. Sorghum seasonal progress. Alfalfa haying steady progress. Lemon picking active, and increasing. Lettuce Cochise County good growth, lettuce central, western areas up to stand. Preparations, planting vegetables late fall, early winter active. Melon crops very good progress. Citrus groves mostly good condition, other early variety new crop fruit sizing well. Ranges fair to good. Water supplies, soil moisture adequate. Cattle good, getting fat. Sheep were good to excellent.

ARKANSAS: Cool, dry week. Highest temperatures 96°, lowest 45°. All departures from normal 0 to -6°. Most rainfall 0.89 in., least zero.

Crops good condition. Rice headed 96%, 99% 1980; ripe 55%, 52% 1980; harvested 24%, 16% 1980, 12% average. Soybeans blooming 96%, 93% 1980; setting pods 95%, 77% 1980; yellowing 9%, 42% 1980; shedding 5%, 35% 1980. Cotton open bolls 47%, 69% 1980, 33% average; harvested less than 5%, about the same as 1980 and average. Corn harvest 71%, 80% 1980, 44% average. Sorghum harvest 54%, 75% 1980, 41% average. Soil moisture mostly adequate, few counties short. Pastures good. Livestock good condition.

CALIFORNIA: Another warm and generally dry week although scattered thundershowers developed over the Sierra Nevada during the afternoons, lasting into the early evening. Mean temperatures were almost uniformly above normal by a few degrees. All districts had temperatures into the 90's; some 100° and higher. Coastal cloudiness kept means a few degrees below normal along portions of the North and Central Coast.

Cotton progressing well. Open bolls 65%, last year 25. Harvest expected 2 weeks early. Last irrigation applied several fields. Corn silage harvest active. Bean harvest underway. Rice being drained. First fields harvested. Alfalfa being baled and chopped. Seed harvest active. Preparation for planting winter grains continues. Grape harvest continued ahead of normal. Juice grape harvest started. Harvest of almonds, pistachios, walnuts, and apples continued. Broccoli, cauliflower moderate Central Coast. Cantaloupe, mixed melon harvest active central Interior Valleys. Carrot harvest active Salinas Valley, increasing San Joaquin Valley. Celery fairly light Central Coast. Lettuce harvest active Central Coast. Pepper volume increasing Central Coast. Harvest continues South Coast, San Joaquin Valley. Digging fall potatoes very light. Sweetpotato shipments increasing Central Valley. Market tomato harvest active coastal areas, San Joaquin Valley. Progressing tomato harvest active. Providing supplemental feed. Movement off summer ranges continues.

COLORADO: Daily afternoon, evening showers, thunderstorms. Temperatures generally a few degrees above normal except 1 to 2° below normal Rio Grande River Basin.

Winter wheat seeded 40%, 57% 1980, 71% average; emerged 13%, 18% 1980, 32% average. Barley harvested 94%, 87% 1980, 91% average. Spring wheat harvested 75%, 72% 1980. Corn dough 90%, 96% 1980, 91% average; dented 66%, 78% 1980, 76% average; mature 19%, 20% 1980, 28% average; silage harvested 31%, 40% 1980, 46% average. Sorghum headed 96%, 100% 1980, and average; turned color 61%, 76% 1980 and average; ripe 13%, 4% 1980, 12% average. Dry beans cut 54%, 47% 1980, 60% average; threshed 21%, 23% 1980, 34% average. Summer potatoes harvested 80%, 57% 1980, 62% average. Alfalfa second cutting 94%, 93% 1980, 96% average; third cutting 55%, 53% 1980, 71% average. Six days suitable for fieldwork. Ranges and pastures good condition. Livestock good condition.

FLORIDA: Thunderstorms widely scattered to scattered with the least activity Panhandle, north. Low temperatures mostly in 70's except for 60's Panhandle, 10th, 11th. Highs were mostly from the upper 80's to low 80's except a few mid 80's in rain areas. Rainfall amounts mostly between 1.00 and 3.00 in.

Soil moisture mostly adequate north, central, south: Panhandle getting a little dry. A few wet spots, south. Corn harvest about complete, except for late planted fields. Seed corn planting continues in south. Soybeans maturing, pod set not as good as expected. Peanut harvest active. Hay harvest continues as weather permits. Cotton, sugarcane good progress. Tobacco marketing remains active. Most pastures in good to excellent condition. A few areas still need rain. Cattle mostly good condition. Groves

condition continues very good. Moisture adequate, very little irrigation. A lot of new foliage growth. Fruit progressing well, picking of 1981-82 grapefruit crop underway. Summer weather continued in vegetable areas. Daytime highs were mostly in low 90's and night temperatures in the 70's. Scattered afternoon showers brought light to moderate rains to most areas. Fieldwork picked up as more fields dried out.

GEORGIA: Generally mild with moderate rainfall most sections. Average temperatures near normal. Greatest rainfall northern third and southeast where amounts averaged near 0.75 in. and 0.50 in. respectively. Barely 0.10 in elsewhere. Weekend temperatures near normal most sections. Isolated thundershowers produced spotty rainfall over west central areas on 13th, otherwise no rainfall during the weekend.

Soil moisture short to adequate. Five days suitable for fieldwork. Major activities: haying, spraying and harvesting. Corn poor to fair; 83% harvested, 78% last year, average 64%. Soybeans fair to good; 99% have bloomed, 100% last year; 96% have set pods, 85% last year; 10% dropping leaves, 17% last year. Spraying for loopers and stinkbugs. Peanuts fair to good; 19% dug, last year 22%, average 21%; 11% threshed this year and last, 14% average. Cotton fair to good; 39% open, last year 79%; 8% picked, 16% last year and 4% average. Tobacco 99% harvested, 98% last year, 99% average. Vegetables mostly fair to good. Wheat 1% planted this year and last, 2% seeded, 1% last year and average 2%. Other small grains, 4% seeded, last year 2%, 4% average. Apples fair to mostly good; 78% picked, 69% last year. Pecans fair to good. Pastures and hay crops fair to good. Cattle and hogs fair to mostly good.

HAWAII: Weather favorable. Showers light and confined mainly in the windward crop areas. Irrigation heavy, spraying frequent to maintain fair to good progress. Strike of the surface carrier between Islands over. Normal sailing resumed last week. Vegetables: generally light. Cucumbers, bell pepper supplies moderate. Bananas: generally increasing. Rains beneficial to orchards. Papayas: orchards approaching fall seasonal flush. Rains added more moisture most areas. Pineapples: harvesting down. Sugar: steady harvesting. Pastures: some leeward pastures dry. Others fair to good.

IDAHO: Temperatures averaged near normal to 7° above. High of 99° in Lewiston, low of 25° in Powell. Precipitation scattered with only a few localities reporting a measurable amount.

The weather remained dry and harvest moved rapidly ahead. Winter wheat harvest: 100%, 84% in 1980, 91% average. Harvest almost two weeks ahead of last year. Spring wheat harvest: 97%, 78%, 73%. Barley harvest: 97%, 80%, 80%. Harvest two and one-half weeks ahead of last year. Pea and lentil harvests virtually complete. Bean harvest one week ahead of average with 31% harvested. Potato harvest 3% complete. Ranges remain very dry with continued fire danger.

ILLINOIS: Temperatures normal to 4° above normal. Precipitation 0.55 to 1.00 in. north, 0.05 to 0.30 in. south.

Corn condition 33% excellent, 64% good, and 3% fair; 83% dented, 97% 1980, and 93% average; 30% mature, 84% 1980 and 71% average. Soybeans 40% turning yellow, 68% 1980, 68% average; 15% shedding leaves, 37% 1980, 38% average; condition 12% excellent, 78% good,

10% fair. Alfalfa condition 22% excellent, 72% good, 6% fair. Pasture 34% excellent, 63% good, 3% fair. Soil moisture 75% adequate, 25% surplus. Fieldwork: 5.0 days suitable.

INDIANA: Sunny, dry week. Near normal temperatures ranged from 44 to 88°. Rainfall near zero last 6 days. First day rain averaged 0.10 in. southwest half and 0.30 in. north and east.

Fieldwork averaged 5 days. Topsoil and subsoil moisture adequate. Corn 15% mature, 1980 40%, average 40%. Corn 60% dented, 1980 90%, average 85%. Corn 90% in dough, 1980 100%, average 99%. Soybeans 8% dropping leaves, 1980 25%, average 30%. Soybeans 25% turning yellow, 1980 65%, average 65%. Wheat land 35% plowed, 1980 40%, average 45%. Wheat 2% seeded, 1980 1%, average 2%. Tobacco 45% harvested, 1980 55%, average 35%. Pastures fair to mostly good.

IOWA: Very warm and dry week. Temperatures reached into the 90's over much of the western half of the State while precipitation occurred only during the first few hours of the week and was confined to the eastern half of the State.

Topsoil moisture: 7% short, 86% adequate, 7% surplus. Subsoil moisture: 22% short, 69% adequate, 9% surplus. Corn in or past dough stage: 1981 99%, 1980 100%, normal 100%. Corn in or past dent stage: 1981 85%, 1980 92%, normal 90%. Corn acreage mature: 1981 26%, 1980 42%, normal 57%. Soybeans with leaves turning: 1981 67%, 1980 75%, normal 80%. Soybeans with leaves shedding: 1981 26%, 1980 29%, normal 40%. Soybean acreage mature: 1981 8%, 1980 8%, normal 24%. Third cut alfalfa hay harvested: 92% complete, 1980 86%, normal 84%. Winter wheat sown: 1981 2%, 1980 13%, normal 3%. Fieldwork: 5.8 days suitable. Crop conditions: soybeans, corn, pasture, and hay mostly good to excellent. Livestock reported to be in mostly good condition.

KANSAS: Generous to locally heavy rains in all but the extreme west averaging 0.50 in. western 3 districts to 1.50 in. north central and northeast districts. Temperatures averaged 66° northwest to 69 to 72° elsewhere and from slightly above normal southeast to 2 to 4° above normal elsewhere.

Wheat planting rapid strides west central, southwest. State 10% complete, last year 10%, average 10%. Corn harvest excellent progress south central, southeast. State 4% complete, last year 15%, average 10%. Corn in dent stage 80% this year, 85% last year, 80% average. Corn mature 45% this year, last year 55%, average 50%. Sorghum harvest underway primarily southeast. State 1% complete, last year 5%, average 4%. Sorghum mature 10% this year, 15% last year, 20% average. Soybean prospects excellent but many fields late, susceptible to early freeze. Soybeans dropping leaves, this year 15%, last year 15%. Range and pastures good to excellent grazing. Moisture generally adequate.

KENTUCKY: Temperatures were generally cooler and weather was drier.

Farmers were active with 5.6 days of fieldwork. Soil moisture 23% short, 76% adequate and 1% surplus. Cutting and housing tobacco remains the number one activity followed by harvesting corn and cutting hay. Burley 68% cut, 66% last year and 68% average. Improved curing weather helped to reduce occurrence of houseburn. Dark tobacco 72% cut, 62% last year and 68% average. Corn harvest and silage cutting underway, 42% of acreage mature compared to 58% in 1980 and 45% average. Corn 87% dented

or more compared to 94% last year and 92% average. Soybeans 12% shedding leaves or mature, 16% turning yellow and 72% entirely green. Beans much later than last year but showing good development. Will need a late frost.

LOUISIANA: Rainfall widespread. Temperatures slightly below normal.

Soil moisture short to adequate. Days suitable: 6.1. Corn harvested 88%, 79% 1980, 71% average; condition good. Rice ripe 96%, 95% 1980, 92% average; harvested 86%, 82% 1980, 81% average; condition fair to good. Cotton open bolls 82%, 60% 1980, 37% average; harvested 5%, 4% 1980; condition fair. Soybeans leaves turning 34%, 31% 1980, 32% average; leaves shedding 13%, 21% 1980; harvested 1%, 2% 1980; condition fair. Sorghum ripe 85%, 68% 1980, 66% average; harvested 67%, 50% 1980, 42% average; condition fair to good. Sugarcane planted 42%, 23% 1980 and average; condition good. Sweetpotatoes harvested 47%, 44% 1980, 39% average; condition good. Vegetables rated fair. Pecans rated fair to good. Pastures and livestock rated fair to good.

MARYLAND AND DELAWARE: Temperatures averaged near normal to 2° below. Precipitation light, averaged 0.50 in. in Maryland, Delaware near zero.

Delaware: Dry weather stressed soybeans. Soybean development 85% bloomed, 80% podded, 15% turned. Slightly behind last year. Corn: 95% dough, 75% dented, 20% mature. Harvest for grain 10%, corn silage 50%. Lima beans 50%, tomatoes 90%, watermelons 85%, potatoes 100%.

Maryland: Soybeans 100% bloomed, 85% podded, 20% turned, equal to last year. Corn grain harvest 10%, dough 100%, dent 80%, mature 30%. Corn silage 65%, last year 60%. Tobacco 85% harvested, last year 75%. Potatoes 100%, tomatoes and watermelons 95%, lima beans over 50%. Peaches 95%, apples 25% both states.

MICHIGAN: Generally dry conditions prevailed except for last day of the period. Precipitation amounts range from a low of 0.15 in. over southeast Lower to high of 1.40 in. over eastern Upper Peninsula and northern tip of northeast Lower Peninsula and a very high value of 2.16 in. in extreme south central Lower.

Warm, sunny days brought relief to most of the State drying up surplus moisture conditions. However, most areas in east still confronted with a surplus of moisture--thus slowing fieldwork. About 4 days were suitable for fieldwork. Third cutting hay very active in some areas with 40% cut. Dry bean harvest has resumed in some dryer areas with 15% harvested. Most dry bean producers welcome the warm, sunny weather received during the past week. Harvest expected to be in full boom if nice weather continues. Soybean leaves about 85% turned and 15% leaves dropped. Corn silage production picked up, 10% complete. Corn 75% dented, below last season's 84%. Potato digging resumed as the soil began to dry. Potato digging 34% complete. Red Delicious and McIntosh harvest increased.

MINNESOTA: A very warm week with below normal precipitation. Temperatures averaged 5 to 10° above normal in most areas with east central and southeast being close to 10° above average. Precipitation all fell first day of week. Amounts ranged from near normal northwest to approx. 0.50 in. below normal east central.

Very warm week and crops made rapid development. Crops now less than one week behind normal. Under two weeks to full maturity. Topsoil moisture rated 4% very short, 9% short, 75% adequate, and 12% surplus. Field corn: denting 77%, 1980 93%, normal 84%; mature 12%, 1980 27%,

normal 37%. Soybeans: shedding leaves 29%, 1980 63%, normal 56%; mature 3%, 1980 6%, normal 16%. Potatoes: harvested 24%, 1980 20%, normal 18%. Seeded: winter wheat 50%, 1980 55%, normal 42%. Winter rye 48%, 1980 46%, normal 37%.

MISSISSIPPI: Temperatures about 5° below normal except along coast. Extremes: 47 and 95°. Rainfall very light. Greatest 24-hour rainfall 0.77 in.

Soil moisture adequate to short. Days suitable for fieldwork: 6.0. Cotton 90% of acreage with open bolls, 83% last year, 62% average; 5% harvested, 1% last year, 3% average; condition fair to good. Soybeans 30% shedding, 35% last year, 21% average; 9% mature, 10% last year; 2% harvested, 2% last year; condition fair. Rice 67% mature, 73% last year, 59% average; 22% harvested, 39% last year, 23% average; condition good. Corn 60% harvested; sorghum 42%; hay 89%; sorghum silage 85%; sweetpotatoes 18%; peanuts 29%. Winter wheat 4% planted. Pasture and pecan condition fair to good.

MISSOURI: Temperatures average slightly above normal in the northern half of the State and 2° below normal in the southern half. Precipitation was light over most of the State.

Fieldwork: 5.4 days suitable. Corn 89% dented, last year 100%, normal 90%. Corn 45% mature, last year 73%, normal 47%. Corn 10% harvested, last year 22%, normal 11%. Grain sorghum 92% headed, last year 96%, normal 97%. Grain sorghum 38% mature, last year 49%, normal 45%. Grain sorghum 13% harvested, last year 17%, normal 8%. Soybeans 90% setting pods, last year 95%, normal 96%. Soybeans 21% turning color, last year 33%, normal 30%. Soybeans 2% mature, last year 5%, normal 9%. Alfalfa hay 3rd cutting 90% harvested, last year 96%, normal 89%. Cotton 33% open bolls, last year 82%, normal 37%. Condition of corn and pasture good to excellent. Condition of soybeans, grain sorghum and cotton fair to good. Topsoil moisture supply mostly adequate.

MONTANA: Continued mild and mostly dry. Few showers southeast first part of week, otherwise dry. Temperatures 5 to 10° above normal. Glendive was hotspot at 98°, while Wisdom has coldspot with 24°.

Topsoil and subsoil moisture supplies mostly short. Fieldwork: 7 days suitable. Percent harvested compared with last year and normal; spring wheat 95, 80, 85; barley 90, 80, 85; oats 90, 80, 85; corn silage 35, 45, 40; dry beans 15, 35, 40; second cutting alfalfa hay 90, 85, 85. Winter wheat planted, 10, 30, 40--being delayed due to lack of moisture. Sugarbeet harvest to start around September 30. Cattle and sheep moved from summer ranges--10%. Contracting of cows, calves, sheep and lambs light to none.

NEBRASKA: Temperatures: 3 to 5° above normal. Precipitation: 0.10 in. over northwest to over 1.00 in. southeast.

Corn most good to excellent: dough 95%, 100% last year and normal; denting 75%; 90% last year and normal; mature 15%, 30% last year and 40% normal. Soybeans mostly good to excellent; turning color 50%, 60% last year and 75% normal; shedding leaves 10%, 25% last year and 30% normal. Sorghum mostly good; coloring 80%, 94% last year and 85% normal; however, only 5% ripe, behind 45% last year and 25% normal. Wheat seeding 30%, same as normal but 35% last year. Pasture and range feed supplies mostly adequate. Topsoil moisture adequate. Subsoil moisture short to mostly adequate. Days suitable for fieldwork: 5.4.

NEVADA: Weak low pressure area caused scattered shower and thunderstorms. Drying occurred near weekend. Rain ranged from 0.90 in. at Battle Mountain and 0.81 in. at Caliente to no rain at several localities northwest. Temperatures averaged 3 to 7° above seasonal normal except in extreme east where readings were 1 to 3° cooler than normal. Lows mostly 30's and 40's north, 50's and 60's extreme south. Mountain City reported the only subfreezing temperature with low of 29°

Harvest of alfalfa hay continues active most areas. Range feed continues short most areas. Cattle being moved to fall and winter pastures. Sales slow.

NEW ENGLAND: Temperatures: Near normal. Precipitation: Below normal, ranging from 0.10 in. over Cape Cod to 2.50 in. northern Vermont. Most occurred evening 8th.

Fieldwork: 6.0 days favorable. Soil moisture: South, short; north, adequate to surplus. Hay harvested: Second crop, 86%; third crop, 53%. Potatoes: Harvest started, variable yields. Oats harvested: 97%. Apples: McIntosh being harvested, short crop, overall. Vegetables: Harvesting, good quality. Cranberries: Harvest started, need water, fair to good prospects. Sweet corn: 86% harvested. Good conditions: Corn, potatoes, vegetables, cranberries. Fair condition: Apples. Grazing: Adequate.

NEW JERSEY: Temperatures averaged near normal. Extremes: 38° at Neshanic Station on 10th, and 90° at several locations on 12th. Rainfall 1.20 in. north, 0.99 in. central and 0.35 in. south. Heaviest 24 hour total 3.80 in. at Ewingville on 8th. Estimated soil moisture, in percent of field capacity, 67 north, 50 central and 40 south. Four inch soil temperature 69 north, 72 central and 76 south.

Fieldwork: 5.6 days suitable. Showers on the 8th brought varied amounts of rain. Some areas critically dry, others received local flooding. Harvest of summer vegetables nearing completion. Fall vegetable volume increasing. Irish potato harvest nearing completion. Sweet potato digging continues light. Peaches moving to market from storages. Fall apple harvest continues to increase. Cranberry harvest scheduled to begin next week. Soil preparation underway for fall sown grains and cover crops. Some barley planted. Third cutting hay continues.

NEW MEXICO: Widespread rains again interrupted field activity. While still mostly beneficial, abundant moisture has restricted insect and weed control, and damaged down hay. Outside activity, when possible, included chile, hay and ensilage harvest, spraying for insects, and wheat seeding. Cotton opening advanced with most southern counties fields showing open bolls while more northern counties not yet started. Insect control spraying east side extensive. More alfalfa hay rain damaged. Harvest varies between second-third cuts in north and fourth and fifth cuts in south. Grain sorghum good condition but heavy worm and insect infestations on east side. Much grain turning color. Corn ensilage cutting continued as possible. Earlier planted winter wheat up and making good progress. Miscellaneous crops harvest was proceeding as weather permitted. The abundant moisture has resulted in chile showing wilt, and has restricted control measures for insects and weeds in lettuce fields. Ranges and livestock continued in good condition.

NEW YORK: Temperatures above average. Rain frequent in east and north, mostly below normal in central and western areas.

Fieldwork slowed. Corn silage harvest 5% done, 9% 1980, 12% average. Oat harvest about

done. Third cutting alfalfa 49% complete, 53% 1980, 53% average. Many vegetable crop harvests slowed. Oswego County onions 10% harvested. Orange County onions 85% harvested. Long Island potato harvest 35% complete. McIntosh apple harvest underway all areas. Good weather allowed Chautauqua County and Finger Lakes grape harvesting.

NORTH CAROLINA: Temperatures: below normal. Precipitation: 0.25 in. Statewide to 2.84 in. at Laurinburg.

Fieldwork: 4.8 days suitable. Soil moisture: 1% very short, 14% short, 66% adequate, 19% surplus. Conditions: pasture, cotton, peanuts, soybeans, apples, and grain sorghum mostly good; sweetpotatoes fair to good. Harvest: sweetpotatoes 18%, 1980 13%, 14% average; sorghum 15%; flue-cured tobacco 92%, 1980 88%, 94% average; burley tobacco 59%, 1980 58%, 51% average; corn for grain 43%, 1980 43%, 38% average; corn for silage 80%, 1980 77%; apples 34%, 1980 32%, 35% average; hay 83%, 1980 82%, 84% average. Phenological stages: cotton open bolls 89%, 1980 79%; corn dent stage 99%, 1980 98%; corn matured 93%, 1980 90%; soybeans dropping leaves 2%, 1980 0. Major farm activities: harvest and marketing of tobacco and combining of corn for grain.

NORTH DAKOTA: Very warm and dry weather. Precipitation was widely scattered and very light. Precipitation averaged zero in all divisions. Temperatures well above normal in all divisions. Average from 8 to 12° above normal. High temperatures in the 90's midweek. Some record highs. Extremes: 97 and 39°, both northwest.

Warm, dry weather ideal for row crop development and harvest activity. Sunflower and corn maturity ahead of last year and average. Small grain harvest virtually completed last week, well ahead of normal. Harvest of other crops at or ahead of average pace. Average of 6.5 days suitable for fieldwork. West and southeast becoming dry. Thirty-nine percent of State short of topsoil moisture compared to 29 last week, 12 last year, 52 average. Percent combined with last year and average: Hard red spring wheat 98, 82, 85; durum 97, 69, 74; oats 99, 89, 92; flax 46, 33, 45; dry beans 36, 9, 33; soybeans 4, 1, 8. Potatoes 23% dug, last year 15, average 14. Sunflower 75% bracts yellow or beyond, last year 54, average 63.

OHIO: The week started moist and ended dry. Temperatures averaged from 1 to 4° above normal but farmers were wanting even higher readings. Shorter days and rain from the previous week was slowing maturity. Precipitation was lighter than normal and ranged from near 0.10 to around 0.50 in. All rain occurred through 8th with generally good drying in afternoons the remainder of the week. Heavy dew formation was typical most mornings. It was an excellent week for making 3rd cutting alfalfa, cutting tobacco, harvesting fruits and vegetables. Growing degree accumulations for the week totaled 109 to 146 and averaged 5 to 25 above normal for the week. Soil temperatures above normal and averaged mostly in the upper 60's to low 70's. Corn dented 60%, 90% 1980, 85% average. Corn mature 20%, 45% 1980, 40% average. Soybeans setting pods 90%, 99% 1980, 93% average. Soybeans turning 45%, 60% 1980, 55% average. Silage harvest 20%, 35% 1980, 30% average. Alfalfa 3rd cut 65%, 70% 1980, 75% average. Tobacco cut 40%, 70% 1980, 65% average. Days favorable: 5.0. Pasture condition fair. Soil moisture 2% short, 83% adequate, 15% surplus.

OKLAHOMA: Rainfall ranged from 0.01 in. Panhandle to 1.26 in. south central. Temperatures averaged from 2° above normal Panhandle.

Wheat seeding progressed all areas of State and most advanced in Panhandle and south central localities. Showers across the State continue to aid crop and rangeland conditions. Sorghum mature: 45% 1981; 35% 1980; 45% average. Sorghum harvested: 7% 1981; 3% 1980; 6% average. Cotton open bolls: 10% 1981; 30% 1980; 10% average. Days suitable fieldwork: 5.8.

OREGON: Temperatures above normal. Little or no precipitation.

Soil moisture very short to adequate. Winter wheat harvest nearly finished. Wheat seeding, 2%, 4% last year. Mint harvest mostly done, flaming underway. Annual ryegrass seeding underway. Field burning continuing. Hay harvest continuing. Lily harvest started. Bartlett pear harvest complete. Winter pear harvest started. Peach harvest complete. Plum and prune harvest continuing. Evergreen blackberry harvest winding down. Cranberry harvest one week away. Filberts coloring and dropping. Walnuts showing damage from heat and insects. Potato harvest continuing, early areas. Onion harvest progressing. Snap beans yields hurt by hot weather. Sweet corn and beet harvest continuing. Livestock condition mostly good. Range and pasture dry.

PENNSYLVANIA: After nearly 10 days of nearly continuous cloudiness, skies cleared night of 8th following a vigorous cold front through the State. Sunny but cooler through 10th with warming towards weekend. Temperatures near normal with extremes of 33 and 87°. Rainfall confined mostly to a few showers and thundershowers 8th that produced 0.50 to 1.00 in. rainfall west, central and northeast counties and extreme southeast. Elsewhere 0.25 in. or less.

Four days suitable. Soil moisture mostly adequate. Activities: Plowing; repairing machinery; clipping pastures; planting wheat and barley; and harvesting ensilage corn, hay crops, apples, grapes, tomatoes, potatoes, and tobacco. Tobacco 79% harvested, last year 58%. Potato harvest 48% complete, last year 50%. Ensilage corn 16% harvested, last year 30%. Corn 74% in dent or past and 21% mature; last year 70% in dent or past and 15% mature; average 63% in dent or past and 10% mature. Fall plowing 50% complete, last year 47%. Wheat planting 15% complete, last year 20%. Barley planting 26% complete, last year 27%. Third cutting alfalfa 61% complete, last year 68%. Fourth cutting alfalfa 25% complete, last year 30%. Second cutting Clo-Tim 90% complete, last year at this time virtually complete. Hay quality fair to good. Feed from pasture average to below average.

PUERTO RICO: Island average rainfall 1.82 in. or 0.05 in. above normal. Highest weekly total 5.83 in. Temperatures averaged about 84 to 81° on Coasts and 79 to 76° Interior Divisions. Extremes: 96 and 56°.

SOUTH CAROLINA: Normal temperatures to slightly below normal with coolest 48° on 8th. Rainfall above normal north central and southwest, elsewhere, normal to below normal.

Soil moisture short to adequate. Five days suitable for fieldwork. Corn fair to good condition; 65% harvested, 69 last year, 64 average. Cotton good condition; 63% open bolls, last year 82, 66 average. Some problem with boll rot. Soybean condition good, insect problems minimal, weed problems on the increase; 92% setting pods now and last year, average 94%, 6% leaves turning color, 23 year ago, 15 average; 2% shedding leaves, 13 year ago, 8 average. Apple condition good to excellent, 52% harvested, 35 last year, 60 average. Fall snap beans 84% planted, 100 last year; 6% harvested, 13 last year. Winter grazing 13% planted, 10 year ago.

SOUTH DAKOTA: Very limited precipitation with above average temperatures. Temperatures 4 to 80 above normal. Extremes: 103° to mid-30's.

Topsoil moisture mostly short, critically short area center West River, adequate in small area east central, southeast and Black Hills. Six days suitable. Row crop conditions: Corn 81%, soybeans 87%, sorghum 91%, sunflower 69% of normal. Winter wheat 41% seeded, rye 44% seeded. Lack of moisture, greenbugs, threat of mosaic causing winter wheat seeding delays. Soybeans shedding leaves 48%, 1980 53%, average 53%. Corn dough 81%, 1980 94%, average 97%. Corn dented 64%, 1980 77%, average 84%. Corn mature 27%, 1980 31%, average 46%. Sorghum showing color 75%, 1980 70%, average 74%. Sorghum mature 21%, 1980 17%, average 17%. Sunflowers mature 40%, 1980 30%, average 30%.

TENNESSEE: High pressure dominated weather most of the week. Cold front 8th brought scattered showers. Rainfall amounts light. Temperatures averaged 2° below normal. Lows in the 50's and 60's with highs mostly in the 80's.

Fieldwork: 5.5 days suitable. Soil moisture adequate. Corn 72% mature, 1980 76%, average 56%. Corn harvested 17%, 1980 20%, average 8%. Cotton open bolls 15%, 1980 60%, average 19%. Soybeans mature 4%, 1980 2%, average 3%. Burley tobacco harvest 80%, 1980 70%, average 74%. Dark-fired tobacco 80% harvested, 1980 80%, average 65%. Air-cured harvest 88%, 1980 70%, average 65%. Pastures fair to good. Livestock in good condition. Lespedeza hay 68% harvested, 1980 70%, average 68%. Wheat 5% seeded, 1980 10%, average 11%. Oats 14% seeded, 1980 19%, average 17%. Barley 12% seeded, 1980 14%, average 19%.

TEXAS: Weather: Cold front moved southward across Texas early week causing showers and thundershowers. Fair weather midweek broken over North Texas as another front moved southward. Temperatures 2 to 3° above normal Trans-Pecos; near normal remainder State. Rainfall below normal Coastal Plains, southeastern two-thirds State. West Texas mountains above normal rainfall.

Range and livestock: Range, pasture condition remained good, recent rains, cooler temperatures helped promote growth. Grazing good. Livestock good to excellent condition.

Commercial vegetables: Rio Grande Valley, fall planted vegetables making excellent progress, tomatoes beginning to set fruit, cabbage emerging. Transplanting of celery, cauliflower active. Citrus continues to show good size, quality. Coastal Bend, fall cucumbers developing well. San Antonio-Winter Garden recent rains helped promote growth. Conditions good, progress excellent. Trans-Pecos region, harvest of tomatoes, cantaloup continued. Bell peppers, making good growth, lettuce, cabbage also developing well. High Plains, harvest of bell peppers, onions, cucumbers continued. Some delays due to rain. Pecans mostly in hardening stage. Spraying continued for weevils.

Crops: Wet field conditions delay most field operations across many areas of State. Recent showers beneficial dryland cotton, sorghum High Plains. Most crops need hot, dry weather to hasten maturity. Cotton harvest some progress as fields dry after recent rains. However, cool, damp weather slow crop maturity High Plains. Southern High Plains, damage heavy bollworm infestations. South Central Texas a few fields plowed under because poor development. Cotton condition 10% excellent; 70% good; 16% fair; and 4% poor. Sorghum harvest little progress during week, since wet field conditions delayed operations. Dryland yields across Plains look very good because excellent moisture. Statewide condi-

tion 26% excellent; 63% good; and 11% fair. Corn harvest winding down southern part State. High Plains harvest delayed rain and wet field conditions. Some fields damaged heavy lodging. Reported condition across the State 33% excellent; 54% good; and 13% fair. Small grain seeding underway where field conditions permitted. High Plains some recultivated before wheat planting because excessive weed growth. Oat seeding under way Blacklands. Peanut harvest continued South Texas, where leaf spot, southern blight problem some areas. Cotton open bolls 30%, 40% 1980. Cotton harvested 11%, 17% 1980, 14% average. Rice harvested 100%, 100% 1980, 99% average. Sorghum headed 100%, 99% 1980. Sorghum turning color 86%, 85% 1980. Sorghum mature 71%, 75% 1980. Sorghum harvested for grain 70%, 71% 1980, 65% average. Wheat planted 13%, 17% 1980, 20% average. Wheat emerged 0%, 2% 1980. Corn for grain harvested 46%, 52% 1980, 41% average. Peanuts harvested 10%, 18% 1980, 19% average. Soybeans harvested 0%, 5% 1980, 1% average. Sunflowers harvested 20%, 5% 1980, 11% average. Oats planted 3%, 8% 1980, 13% average.

UTAH: Recurring periods shower and thunderstorm activity most of period. Accumulated amounts moisture locally very heavy with considerable flash flooding. Average temperatures ranged from 8° below normal to 6° above.

Showers continued to hamper harvesting efforts and have caused some losses to hay and dry beans. Five days suitable for fieldwork. Major activities included hay harvest and winter grain seeding. Also active were onion and dry bean harvest. Corn silage cutting just starting. Winter wheat about 50% seeded. Field corn 75% dough, 25% dent. Third crop alfalfa 60% cut. Movement of cattle and sheep from summer ranges just starting.

VIRGINIA: Widespread precipitation first part of week with cool temperatures. Warm and dry latter part of period with no precipitation. High temperatures in the 80's to near 90°. Lows were in the upper 30's to upper 50's first of week but warmed to mid 50's to around 70° by end of period. Precipitation averaged over 2.00 in. east and southeast and 1.00 in. or less elsewhere.

Rainfall improved crop conditions and soil moisture levels were higher in all areas except southeast. Soil moisture rated 27% short, 70% adequate, 3% surplus. Days suitable for fieldwork: 4.6. Corn being harvested rapidly. Corn silage harvest 56% complete, 32% 1980. The crop was 93% dented, 88% 1980 and 90% mature, 64% 1980. Harvest of corn for grain 31% complete. Soybeans in good to excellent condition, but insects and disease problems common in eastern areas. Peanuts in excellent condition. There was no improvement in soil moisture in the area, and growers irrigating and spraying for diseases. Tobacco harvest status: flue-cured 73% cropped, 58% 1980, 64% average; sun-cured 81% cut, 62% 1980, 64% average; burley 67% harvested, 52% 1980, 55% average; fire-cured harvest 80% complete, 60% 1980, 63% average. Apple harvest increasing with 30% picked, 11% 1980, 17% average. Sweetpotato harvest now underway and about 15% of the crop has been dug.

WASHINGTON: West: Temperatures averaged 3 to 6° above normal except Sequim, 1° below and Coupeville, 1° above normal. Precipitation much below normal. Blackberry harvest continued. Green pea harvest near completion; assorted fresh market

and processing vegetables were harvested. Vegetables for seed also were harvested. Field corn continued to improve due to the warm weather conditions. Adequate hay supplies. Rain needed to improve soil moisture.

East: Temperatures 3 to 8° above normal and no precipitation, which is below normal for this season. D'Anjou pears and Golden Delicious apples were harvested; Red Delicious continued to size slightly. Crops harvested included potatoes, dry beans, sweet corn, mint, hops, dry peas, and lentils. Grain harvests winding down in northern and eastern border counties, completed elsewhere. Some fall seeding underway in deep farrow areas. Third cutting alfalfa continued.

WEST VIRGINIA: Temperatures normal. High 89°, low 33°. Precipitation below normal. Range trace to 3.10 in. Light frost on 10th in the higher elevations.

Soil moisture adequate to short. Much of central and west short. Days worked averaged 4.4. Main activities: harvesting various crops. Hay good to fair, 2nd cutting 86% complete, 82% in 1980; 3rd cutting 48% complete. Corn good to fair; 37% mature, 4% harvested. Tobacco fair to good, 99% topped, 66% harvested; 95% and 61% in 1980. Fruit poor to fair. Pastures fair to good. Gardens fair to good. Potatoes fair to good. Wheat 5% planted. Barley 14% planted.

WISCONSIN: Sunshine returned to the Badger State, which experienced a mild week with temperatures averaging 1° above normal. Highs were mostly in the 80's and lows were mostly in the 40's. High of 87° was reported in Eau Claire on 10th while Crivitz reported the weekly low of 38° on 8th. Most of the rainfall fell on Labor Day. Rainfall was quite variable, but generally ranged from 0.50 to 1.00 in.

Fieldwork: 5 days suitable. Mild temperatures and sunny skies helped speed crop maturity and enabled farmers to return to the fields. The 1981 corn crop 65% dented, 82% 1980, 70% average. Approximately 27% of the crop mature (safe from frost), 62% 1980, 53% average. Corn perked up this past week. Haymaking continuing and the third crop harvest 33% complete. Pastures look good at this point in time. Soybeans starting to turn and look good, although weeds have been a serious problem. Tobacco being harvested. Topsoil moisture supplies rated 5% short, 68% adequate and 27% surplus.

WYOMING: Most stations above normal temperatures. Highest 98°, lowest 27°. Near normal precipitation. Greatest amount 1.05 in.

Topsoil moisture short 62% State. Average 7 days suitable for fieldwork. Winter wheat seeded: 50%; year ago 80%; normal 73%. Winter wheat emerged: 20%; year ago 25%; normal 38%. Corn silage harvested: 15%; year ago 25%; normal 42%. Potatoes harvested: 20%; year ago 45%; normal 21%. Dry beans windrowed: 65%; year ago 65%; normal 80%. Dry beans combined: 25%; year ago 40%; normal 34%. Corn for grain dented: 30%; year ago 65%; normal 53%. Corn for grain mature: 5%; year ago 10%; normal 12%. Harvest prospects for row crops mostly good. Sugarbeet harvest expected to start by end of month. Second cutting alfalfa hay harvested: 90%; year ago 91%. Third cutting underway few areas. Other hay harvest complete most areas. Many areas have light movement of livestock from summer pastures due to scarcity of grass.

MEDFLY SITUATION REPORT
September 11, 1981

The Medfly battle slowed somewhat during the past week. No fertile flies have been found since the one in Stanislaus County of September 3rd. State and USDA officials are optimistic that the spray program is working and the Medfly is under control in the State. The situation looks better than it has in weeks, especially in the Santa Clara Valley where the last fertile fly was found on July 15th.

The weekly spray program is continuing with only minor problems encountered at this point. Heavy fog obscuring boundary marker lights caused an over spray outside the boundaries in two cases. Steps are being taken to solve the fog problem including extra ground observers and flying from foggy areas to clear areas. The Technical Advisory Committee is suggesting that weekly spraying continue until mid-November, monthly applications be made during December, January, and February, and weekly spraying resume in March. The reason for the recommendation is that the Medfly breeding cycle slows down in the cooler winter weather.

Roadside inspection stations continue to operate. The California Highway Patrol has been issuing citations to people attempting to carry fruit out of the quarantine areas. The Technical Advisory Committee has also suggested that the roadside stations be dismantled after mid-October since little host fruit will be left in the area after that time.

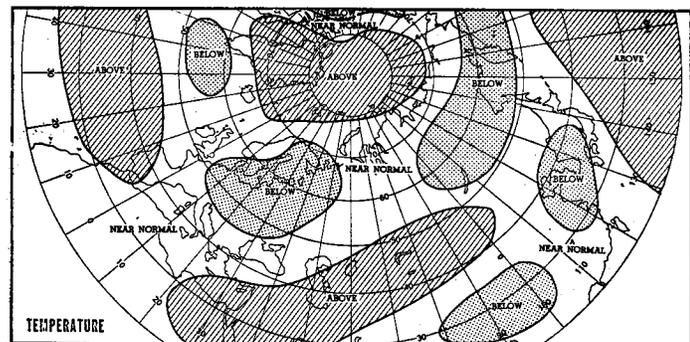
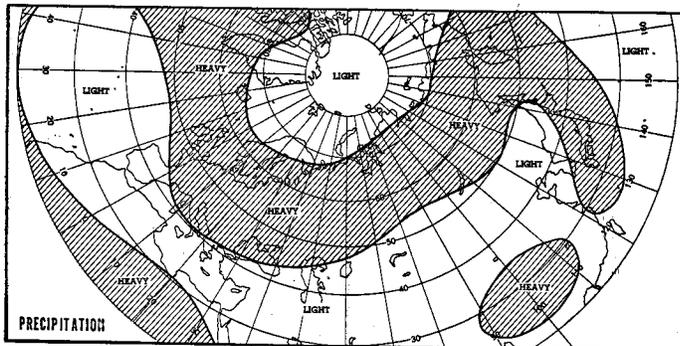
Japanese officials announced fumigation requirements for California crops this week which will require either cold treatment of fumigation for most host crops grown outside the quarantine area. A number of fumigation chambers are under construction which must be certified before they can become operational. Lemon exports to Japan continue to be curtailed sharply with only 12 carlot equivalents moved the week ending September 5 compared to 66 carlots for the same period last year. Much of the export business has been diverted to Arizona. Exports of Sacramento Valley honeydew melons to Japan continues to be stopped due to the fumigation requirements for export.

Daily movement of San Joaquin Valley peaches, plums and nectarines is winding down rapidly with daily volume now below 200,000 packages, and most of the packout is Casselman plums, Summerset and Fairtime peaches, and Autumn Grande and Fairlane nectarines. Movement of Thompson Seedless grapes is declining rapidly, but volume continues active in other table varieties. Movement is ahead of last season. Bartlett pear harvest has been completed with Clingstone peach harvest remaining only in Extra Late varieties, and deliveries through September 5 at 587,000 tons.

Canning tomato deliveries are expected to total 3.7 million tons through September 12 with yields continuing to run well below canner contracts and lighter load requirements from quarantine areas to avoid highway spillage. Peppers continue to be certified from the Gilroy-Hollister quarantine area with weekly malathion field treatment. Grower prices are disappointing and market volume is running behind last year. Some buyers continue to be reluctant to handle products from the quarantine areas.

The Medfly quarantine for Santa Cruz County is continuing to impact on the marketing of important apple crops valued at \$15 million in 1980. At present, only the certified malathion treated apples are being sold in fresh market. This includes about one-half of the total crop. Guidelines for treatment by cold storage are still not final. A draft was sent from Sacramento but it is not yet signed in final form. There is not enough storage for more than one-half of the crop. All available cold storage has now been bought up so small growers that don't have their own storage are at a particular disadvantage. Apples can't go out of area for processing without agreements on acceptance of malathion treated fruit by processors and they are reluctant to give such agreements. Fresh apples from Santa Cruz are being discounted under market price because of quarantine.

EURASIA OUTLOOK FOR MID-SEPTEMBER
TO MID-OCTOBER



(continued from first page)

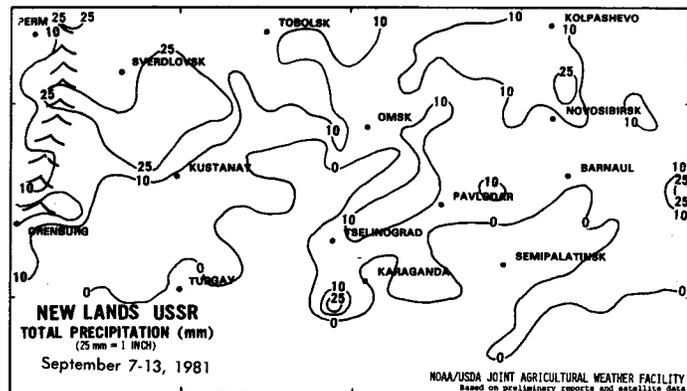
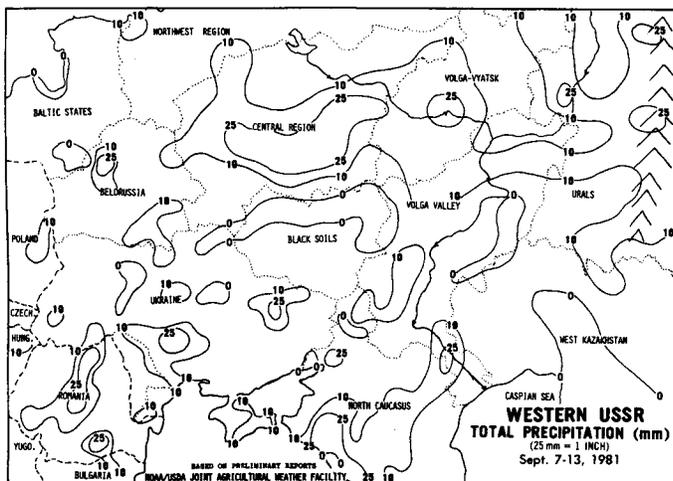
SUNDAY...Showers and thunderstorms continued over Oklahoma and spread to the Gulf Coast States and up into the mid-Mississippi Valley. Some heavy

downpours occurred in the mid-South and a tornado touched down in the Texas Panhandle. A few showers developed in the central Rockies, southern Great Lakes, and southern Florida. High temperatures reached the mid to high eighties in the eastern Corn Belt and 90° in the western portion.

International Weather and Crop Summary

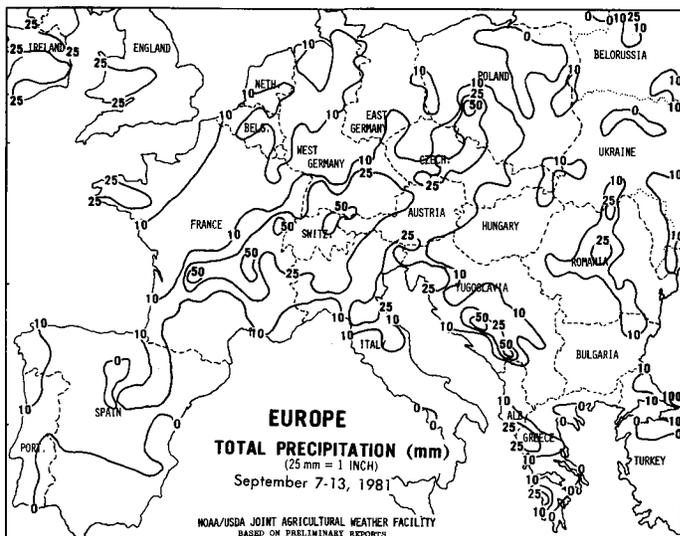
HIGHLIGHTS
Sept. 7-13, 1981

- USSR: Winter grains soil moisture mostly good, some dry pockets; some rain on New Lands grain harvesting.
- EUROPE: Beneficial rains in the northwest, drier in southeast.
- CANADA: Excellent harvest weather.
- MEXICO: Ideal planting weather, sunny and dry, prevailed over most West Coast vegetable areas.
- SOUTH AMERICA: Unfavorably dry for Argentina's wheat and Brazil's coffee crops.
- EASTERN ASIA: Flooding in upper Yellow River; mostly dry on North China Plain.
- AUSTRALIA: Dry weather in eastern and southern wheat areas; showers in western area.
- SOUTHEAST ASIA: Weak monsoon activity--early withdrawal?
- SOUTH ASIA: Monsoon retreats no further; generous rains in the south.

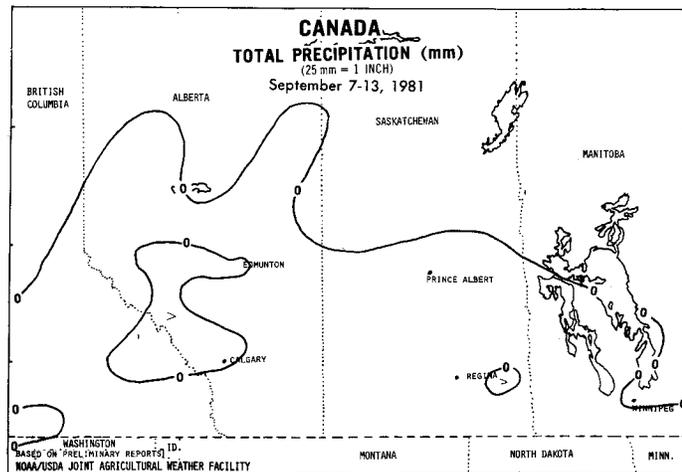


USSR: Most major agricultural areas in European USSR received only light amounts of rain that interfered little with late harvesting of row crops. Grain harvest activity was centered in the northern New Lands, and overall, only about 10 percent of the crop remained in the fields, substantially ahead of last year. Wet weather in the northwestern New Lands may have disrupted

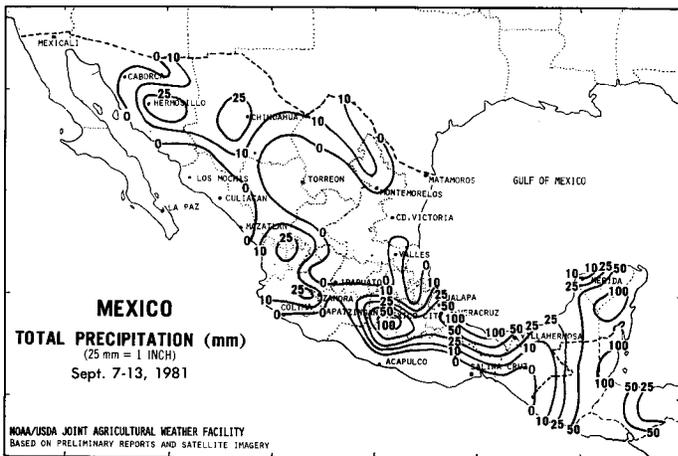
harvesting somewhat. Winter grain sowing moved into the more southerly areas, also well ahead of last year. Soil moisture should be adequate for germination and early growth in most areas, but some dryness persisted in parts of the eastern Ukraine and North Caucasus. Emergence of winter grains was reported in the upper Volga Valley. Late in the week, frost occurred in that area, about a week earlier than normal, but impacts should be minimal.



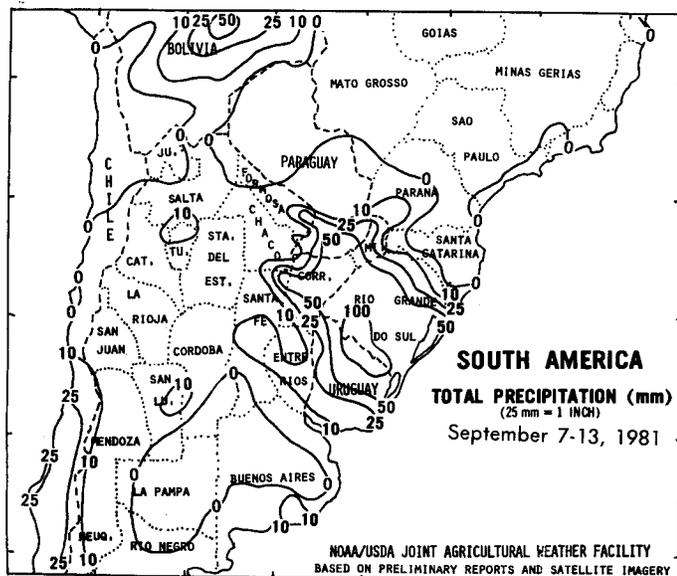
EUROPE: Increased precipitation over central and northwestern areas improved growing conditions for fall-sown crops. Totals ranged above normal at many locations. Northern Italy also received beneficial precipitation. Drier weather in southeastern Europe aided corn harvesting, but soil moisture remained adequate for fall sowing. Most of Poland had relatively dry weather for a second consecutive week. Rain increased in Spain, though amounts were only light; this is a normal trend for this season. Temperatures in the region stayed near normal for the most part.



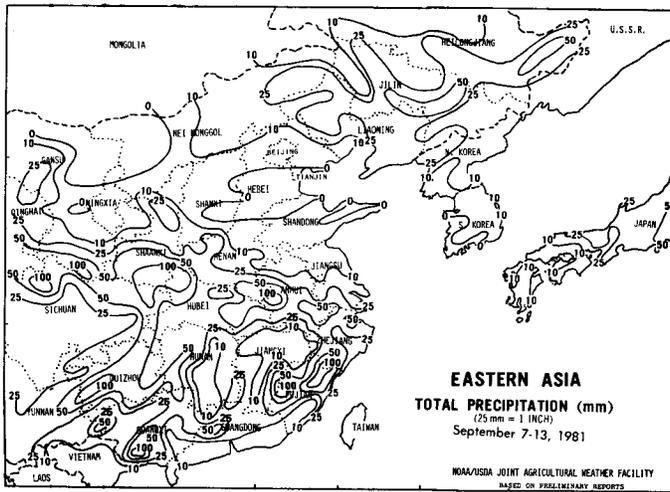
CANADA: Dry weather provided excellent harvest conditions throughout the Canadian Prairies. In Manitoba, no rain fell in previously wet crop areas, allowing the grain harvest to resume at a rapid pace. The quality of grain in the eastern Prairies may be lowered somewhat due to wet weather, but crops are still rated generally good. Saskatchewan's crop harvest is one of the earliest on record due to favorable weather. Except for late maturing crops, another week of good weather in the Prairies will advance the harvest progress toward completion in many areas. Yields and quality are good throughout Saskatchewan and Alberta.



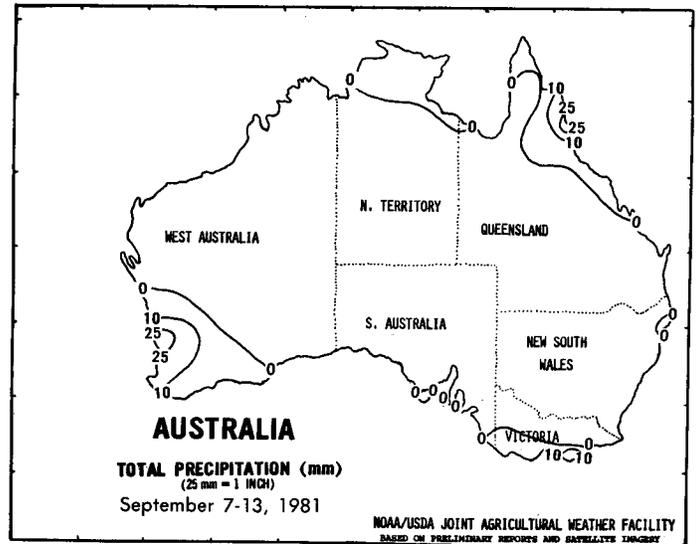
MEXICO: Sunny, dry weather--favorable for planting tomatoes, cucumbers, and other fall vegetables--dominated major West Coast production districts. Rains over the Northwest were mostly limited to the northernmost watersheds. The prolonged dryness in the upper northeastern citrus area continued to stress the non-irrigated crop while moisture remained adequate in the central coast orchards. Heavy rainfall, favorable for sugarcane growth, persisted over the coastal plains south of Veracruz. Light rains hampered corn harvesting but helped the late crop in the southern Plateau. A few light showers also slowed cotton harvest in some northern fields.



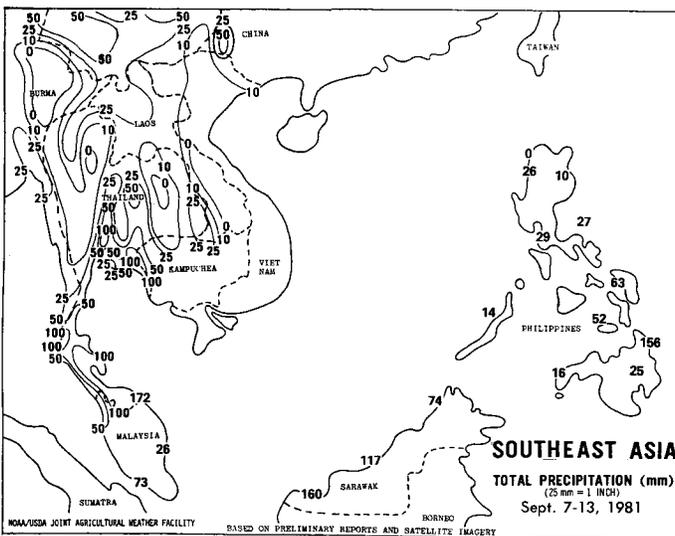
SOUTH AMERICA: Weekly rainfall was concentrated mostly over Uruguay and the Rio Grande do Sul area of Brazil. The area of showers expanded into northeastern Argentina, providing much needed moisture to prepare the land for spring sowing due to begin next month. Elsewhere, mostly dry weather continued to impede development of Brazil's northern wheat and coffee crops and Argentina's wheat crop. Persistent dryness in these areas is stressing Brazil's frost-damaged coffee trees and creating unfavorable moisture conditions for crop growth in Argentina. Reduced yields last year in Argentina were attributed to a prolonged drought which occurred during September and October.



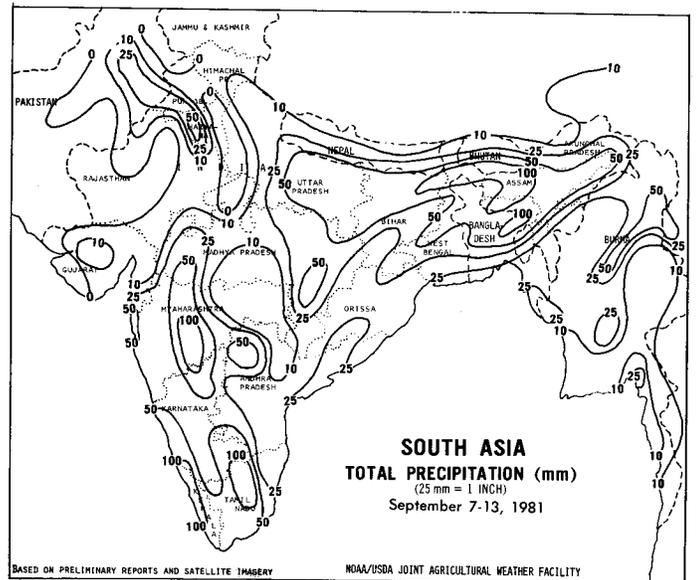
EASTERN ASIA: Heavy rainfall in Shaanxi shifted slightly to the south, but record high water levels were reported in the upper Yellow River due to the previous week's heavy rains. Rainfall this week occurred mostly in a band along the Yangtze River, somewhat interfering with harvesting. A third consecutive week of relatively dry weather over much of the North China Plain favored harvesting, but additional moisture will be required for successful sowing of winter wheat in October. Wet weather returned to the Manchurian Valley, keeping soils unfavorably wet. Drier weather along the southern China coast benefited rice in the latter stages of development; substantial rainfall was limited to the hills just inland. In South Korea, drier weather improved conditions for the maturing rice crop.



AUSTRALIA: Mostly dry weather prevailed in eastern and southern grain areas. Scattered showers fell only in southern Victoria. Spring showers in West Australia benefited vegetative growth. Soil moisture supplies are generally favorable in all areas as the wheat crop enters the period of vigorous vegetative growth. By late September, the wheat crop in northern crop areas will advance into the heading stage. Timely showers during the crucial reproductive and early grain-filling stages will enhance yield prospects which are bright at this time. Land preparation for spring-sown crops should be in initial stages by mid-September. Rainfall along Queensland's northeastern coast likely benefited the sugarcane areas.



SOUTHEAST ASIA: The monsoon was generally weak with widely scattered showers throughout the week producing rainfall that was much below normal in many areas. Average rainfall occurred only in southern portions of Thailand's Central Plains. Heaviest rainfall was concentrated in Thailand's southern peninsula. The lackluster performance of the monsoon may indicate an early withdrawal from Southeast Asia which would leave eastern Thailand with below-average seasonal rainfall. Other areas of Thailand have had generally average rainfall amounts to provide beneficial moisture for crops and reservoirs.



SOUTH ASIA: Scattered rainfall in northwestern India and northern Pakistan appeared to be caused by post-monsoon showers. The monsoon has not retreated any further from its position during the previous week, and generous rains fell from eastern Uttar Pradesh eastward through Bangladesh. Interior southern areas also received beneficial rainfall, maintaining much more favorable growing conditions than last year at this time.

