

WEEKLY WEATHER AND CROP BULLETIN

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

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

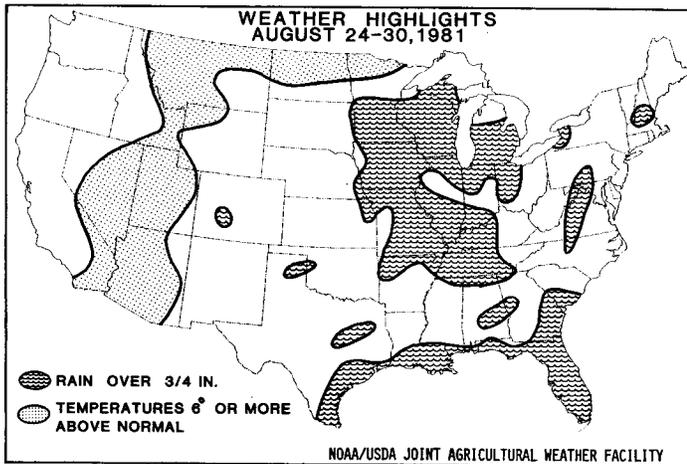
Volume 68, No. 35

WASHINGTON, D.C.

Sept. 1, 1981

National Weather Summary

August 24-30, 1981



HIGHLIGHTS: Showers and thunderstorms covered most of the area from the central Plains to the East Coast. A slow-moving frontal system centered itself in the mid-Mississippi Valley and spread showers and thunderstorms with severe weather through the midwest and upper Mississippi Valley. A tropical depression moved into northeastern Mexico and then northward along the gulf coast, spreading heavy rain and severe weather over much of southern Texas. Temperatures were hot in the West but cooler air pushed eastward at week's end.

MONDAY...Thunderstorms covered much of eastern Nebraska, South Dakota, western Iowa, Minnesota, and northwestern Wisconsin. Thunderstorms were more widely scattered southward to Louisiana and the Texas coast and in Florida. Light to moderate showers and thunderstorms covered the Northeast and light rain moved onto the Washington coast in the Northwest. Temperatures were cool in the East but rather warm over the Plateau and the southern Plains.

TUESDAY...Thunderstorms spread through the entire eastern Plains and Mississippi Valley. Storms were close together in the northern portion but widely scattered to the south. Only a few isolated showers occurred in the rest of the Nation. Temperatures were hot in most of the West. Readings reached the upper nineties in Montana.

WEDNESDAY: Showers and thunderstorms spread out and covered a large area from Arkansas northeastward through Michigan, northward into Minnesota, and westward to the Texas Panhandle and eastern Colorado. Thunderstorms were widely scattered through the gulf States but more frequent in Florida. The hot weather continued from the Southwest

to the northern Rockies. Kalispell, Montana, reached a record 96°.

THURSDAY...The area of thunderstorms continued in the west central part of the Nation and spread eastward through the Ohio Valley and finally into the Northeast. Frequent and occasionally heavy thunderstorms occurred in the central Mississippi Valley and the lower Ohio Valley. Showers and thunderstorms were scattered through the Rockies, Texas, and along the gulf coast. Heavy storms dumped large amounts of rain over most of Florida. The Southwest had another scorching day but the northern Plateau and Rockies cooled off.

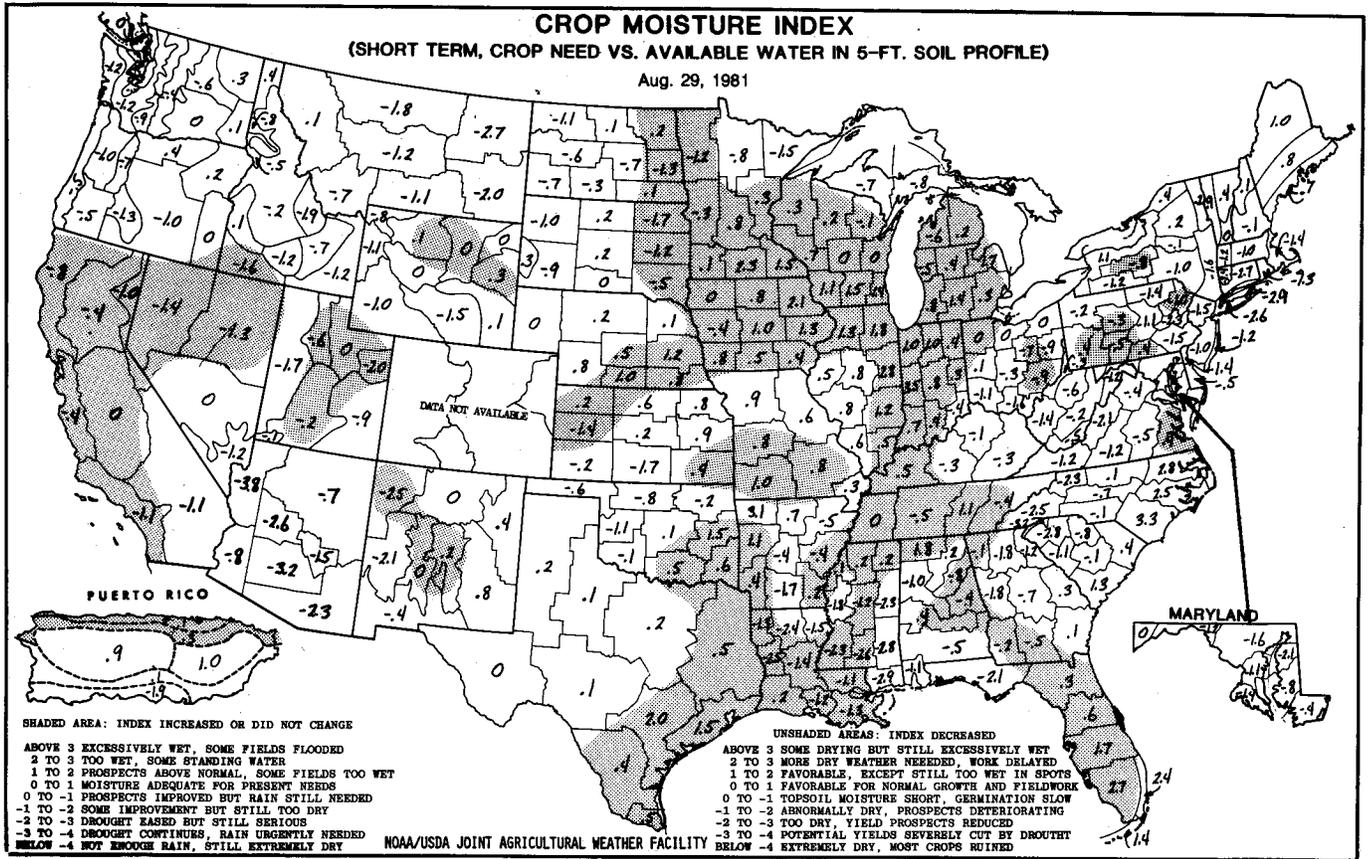
FRIDAY...A cold front triggered scattered showers and thunderstorms from the mid-Mississippi Valley through the Great Lakes region; showers spread southward into Mississippi. A tropical disturbance from the Gulf of Mexico moved over northeastern Mexico and brought heavy showers to the lower Rio Grande Valley and the southeastern Texas coast. Lesser showers fell along the rest of the gulf coast, through Florida, and the Southeast coast. Temperatures remained hot in the Southwest as well as the interior of California.

SATURDAY...The tropical depression moved northward along the coast to southern Texas, producing severe weather and heavy rain along the western gulf coast. Showers of less intensity extended into Florida with isolated heavy amounts. The slow-moving cold front spread showers, thunderstorms, and occasional severe weather throughout the area east of the Mississippi River. Widely scattered showers and thunderstorms popped up in the central Plains and Rockies. Showers were widely scattered over the Pacific Northwest.

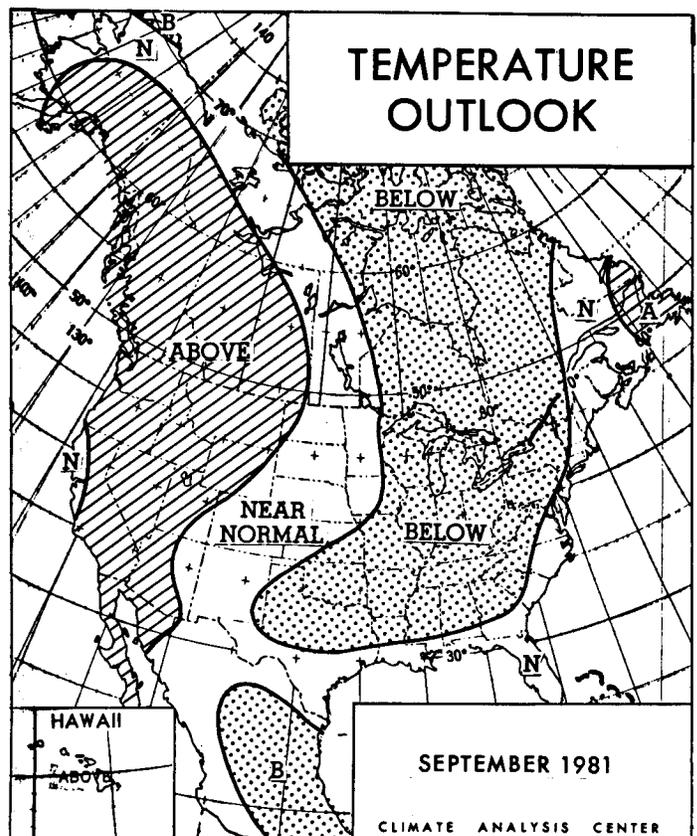
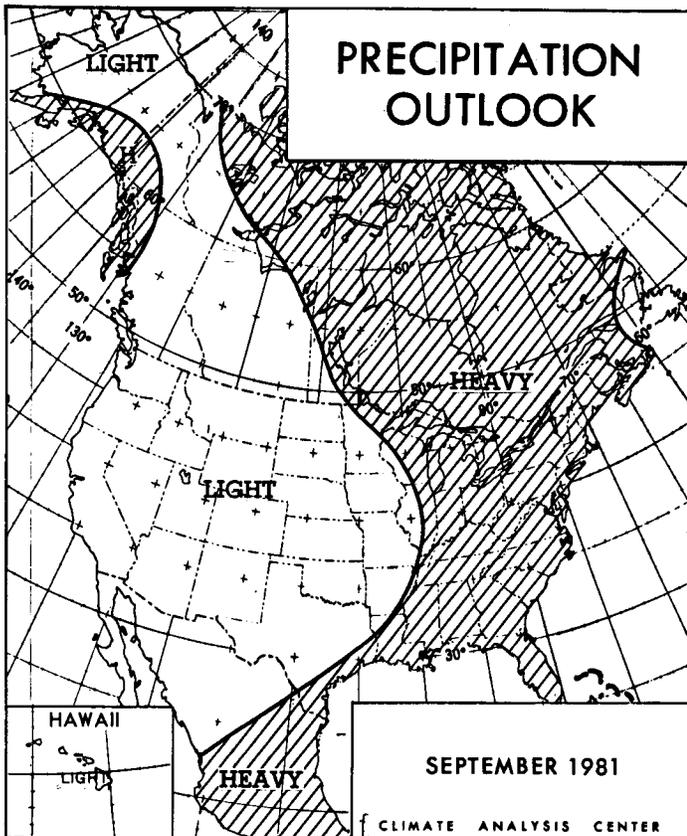
(Continued on page 14)

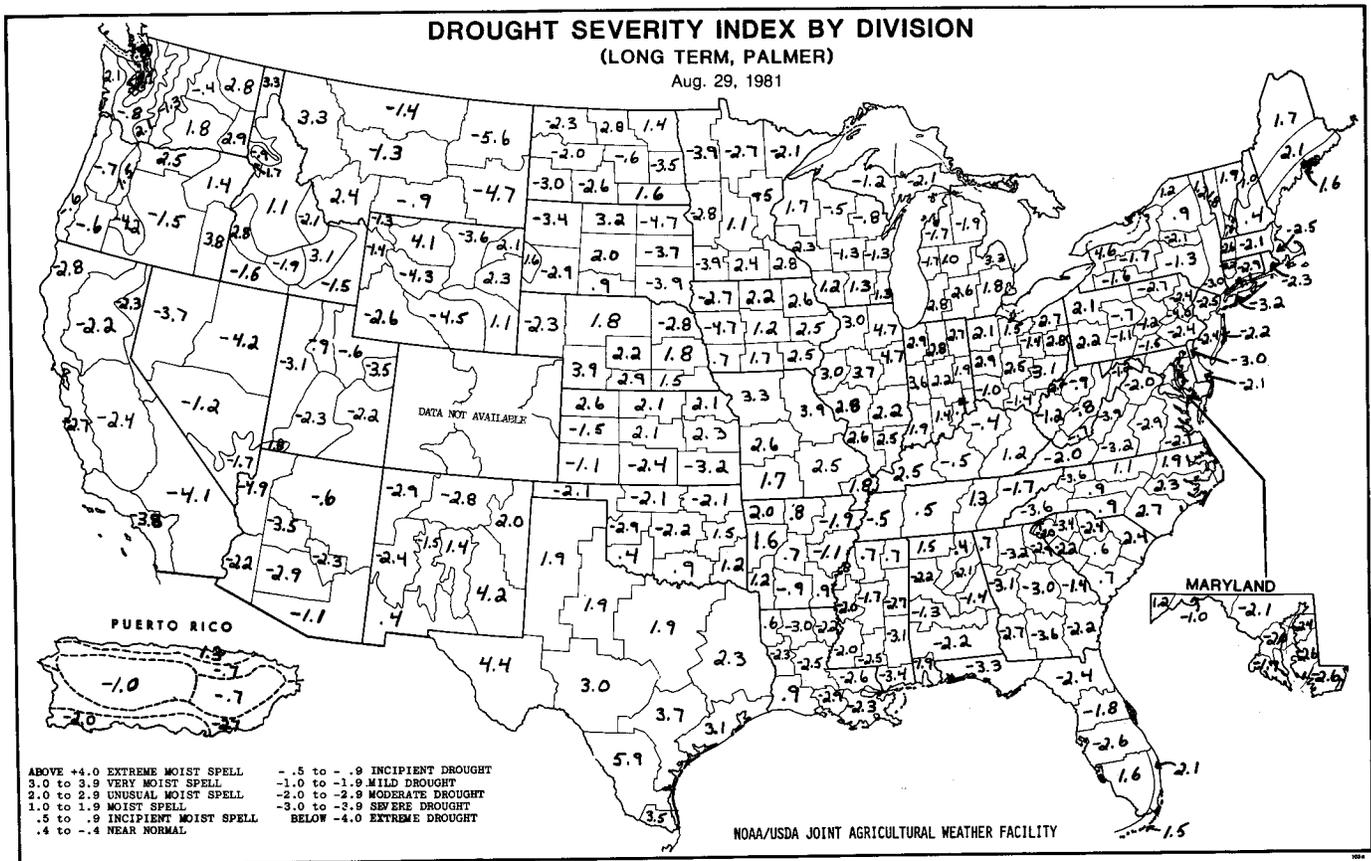
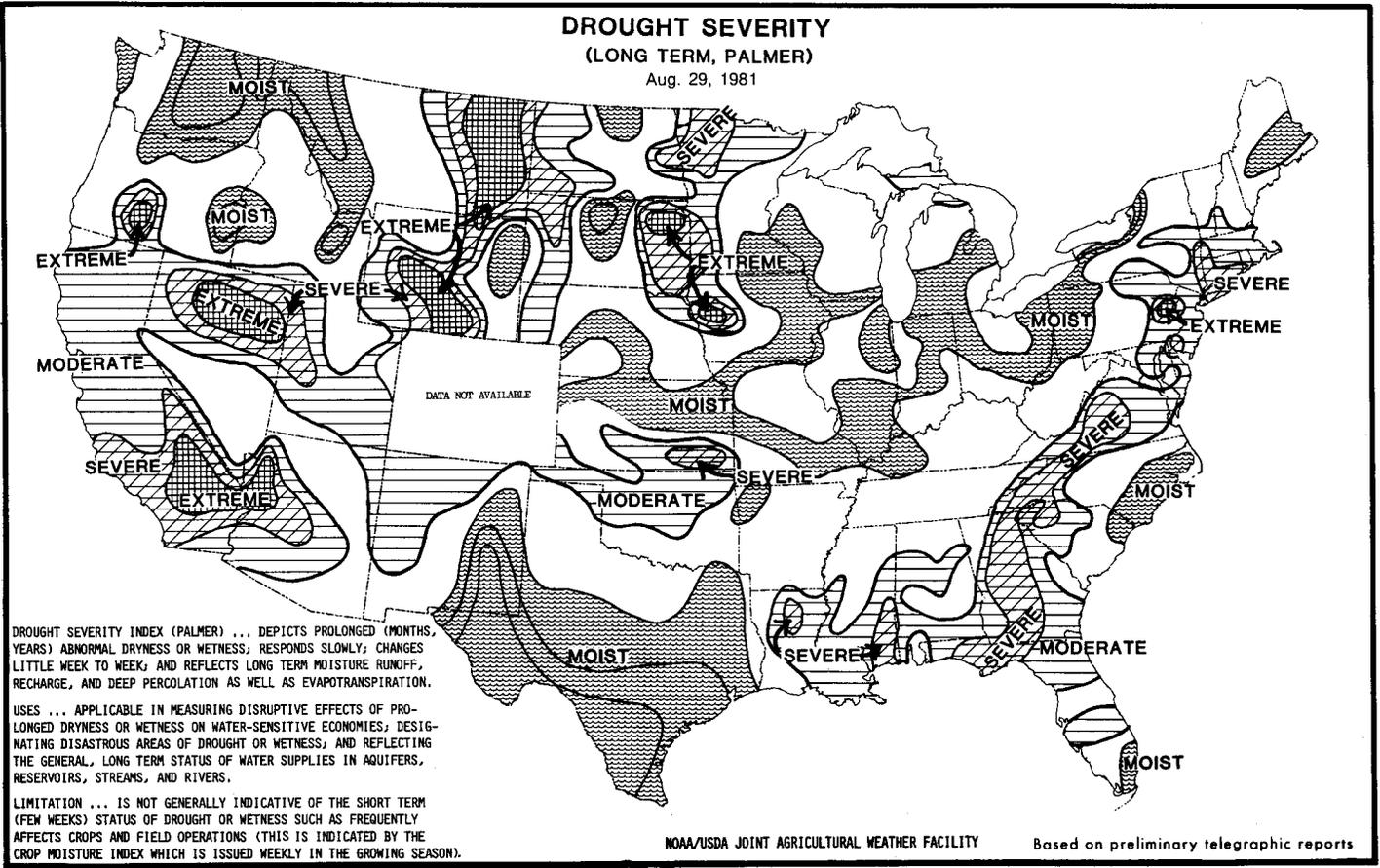
In This Issue

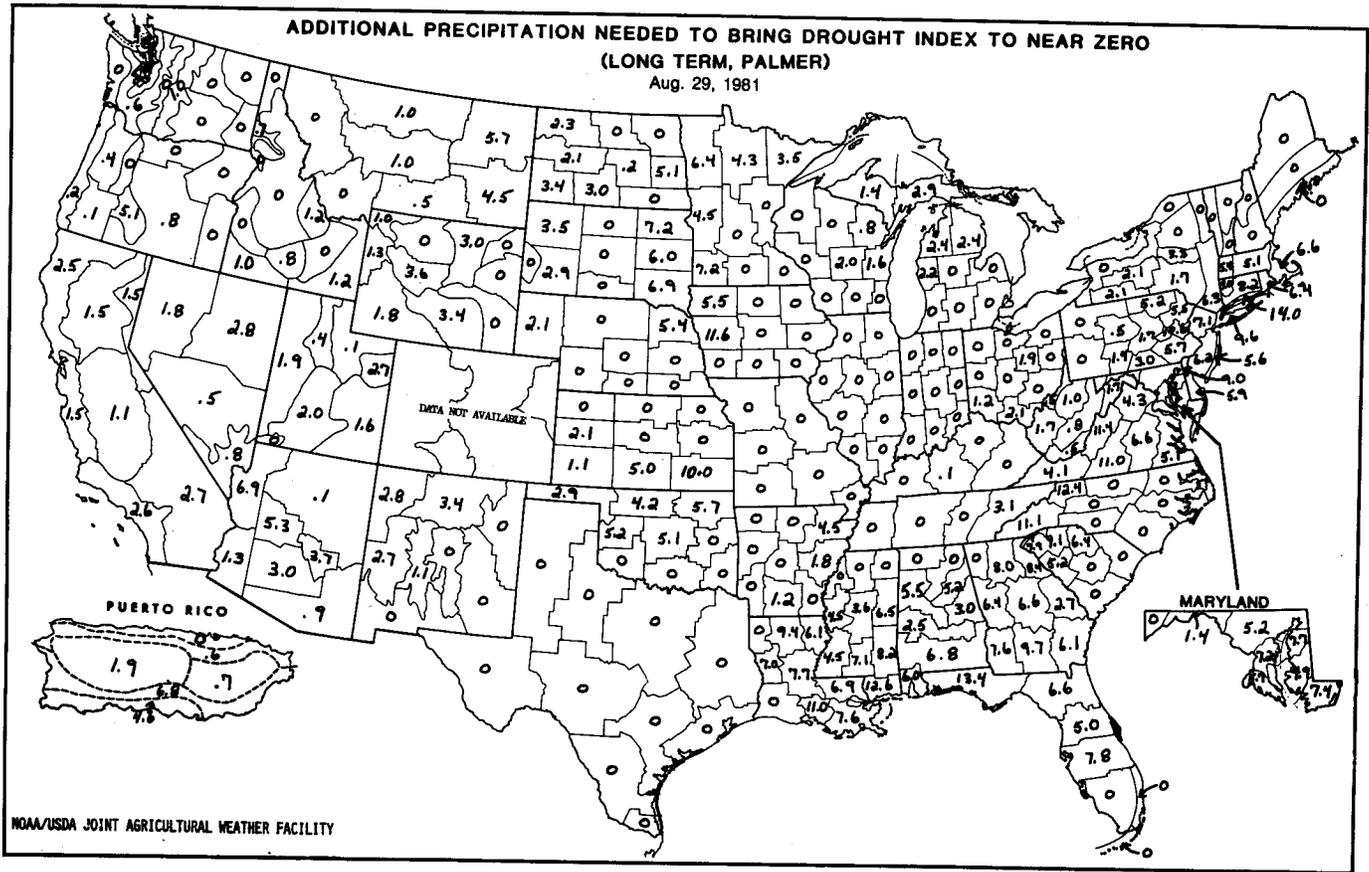
	Page
National Weather Summary	1
Precipitation & Crop Moisture	2
Crop Moisture Index by Division & Outlook for September	3
Drought Severity & Drought Severity Index	4
Precipitation Needed to End Drought & Outlook for Fall Temperatures	5
Average Temperature & Departure	6
Pan Evaporation & Growing Degree Days	7
Weather Data for Selected Cities	8
Cooling Degree Days	11
Percent Possible Sunshine	12
National Agricultural Summary	13
Crop Progress	14
State Summaries of Weather & Agriculture	15
Medfly Situation Report & International Weather & Crop Summary	21
Eurasia Weather Outlook & Subscription Information	24



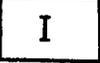
OUTLOOK FOR SEPTEMBER

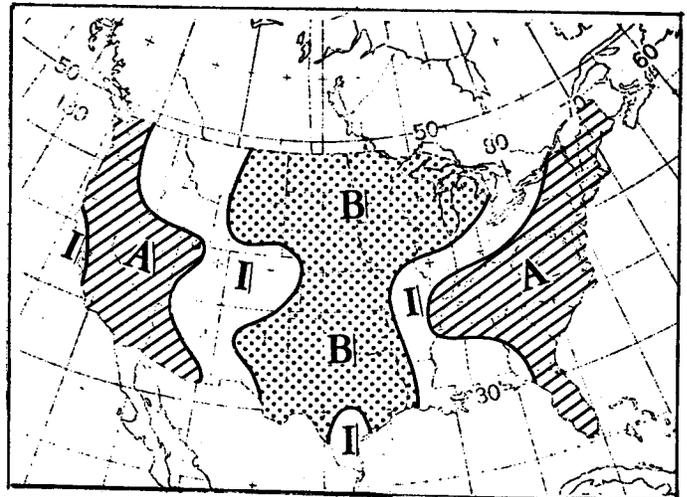




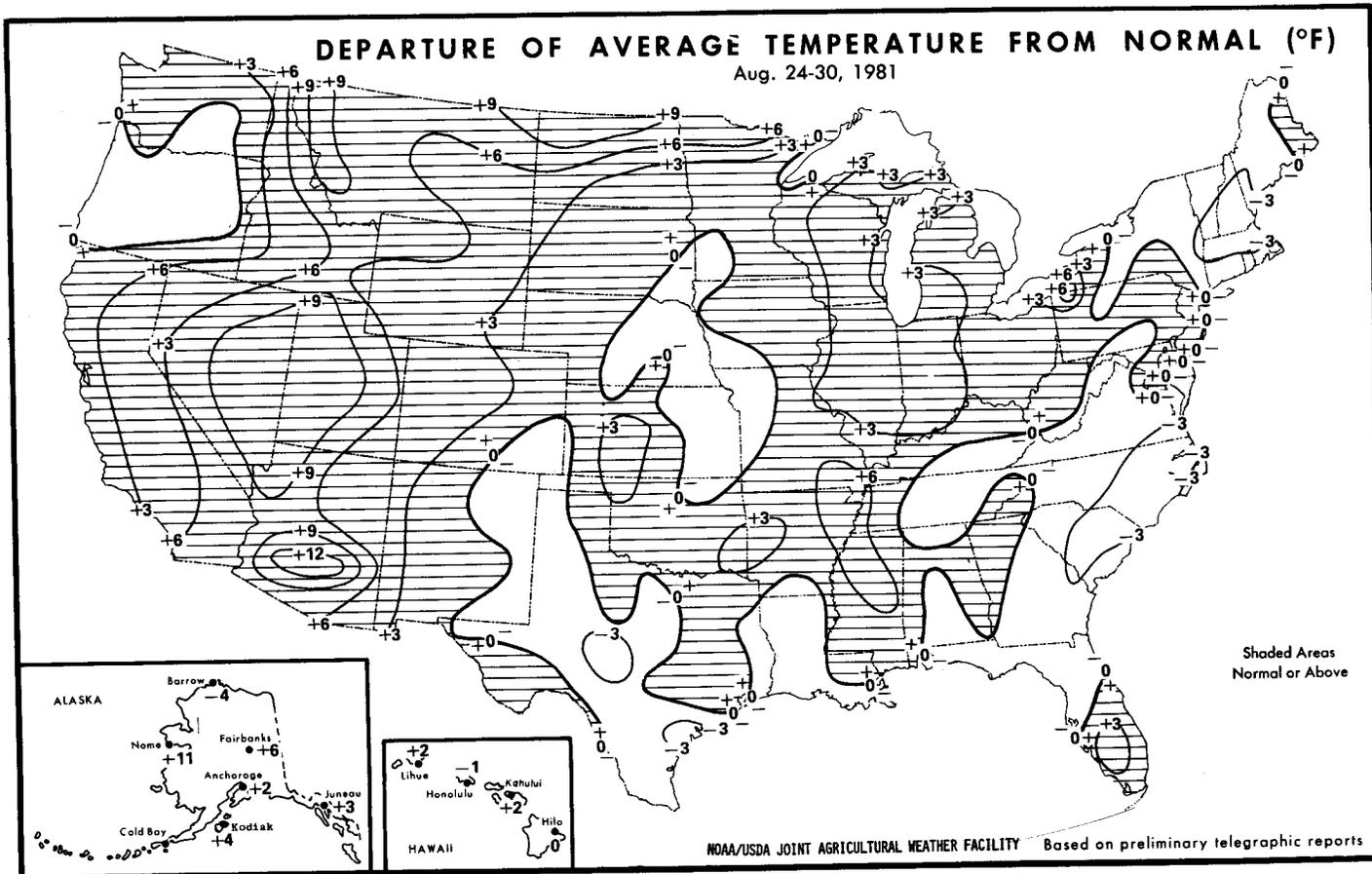
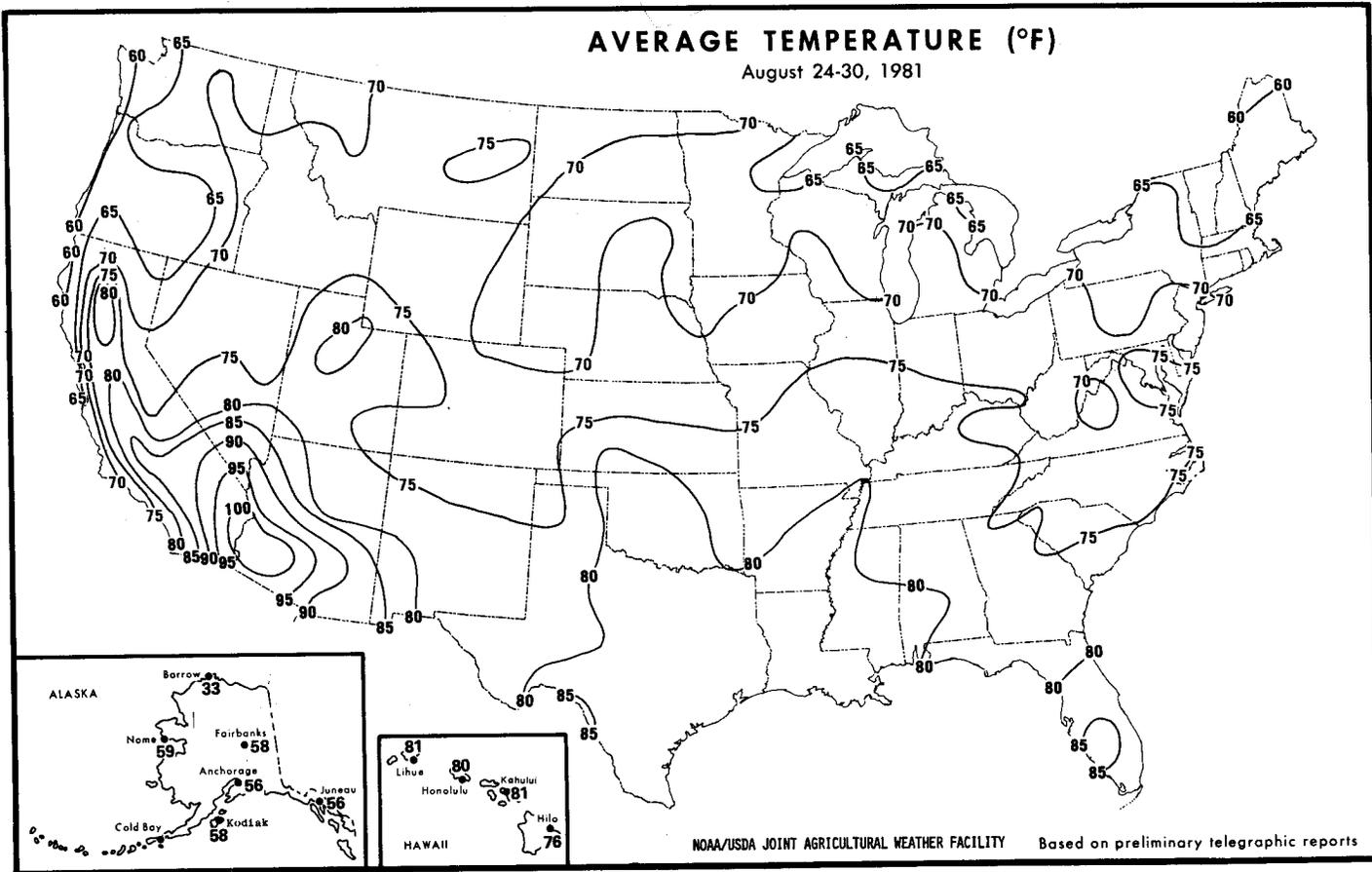


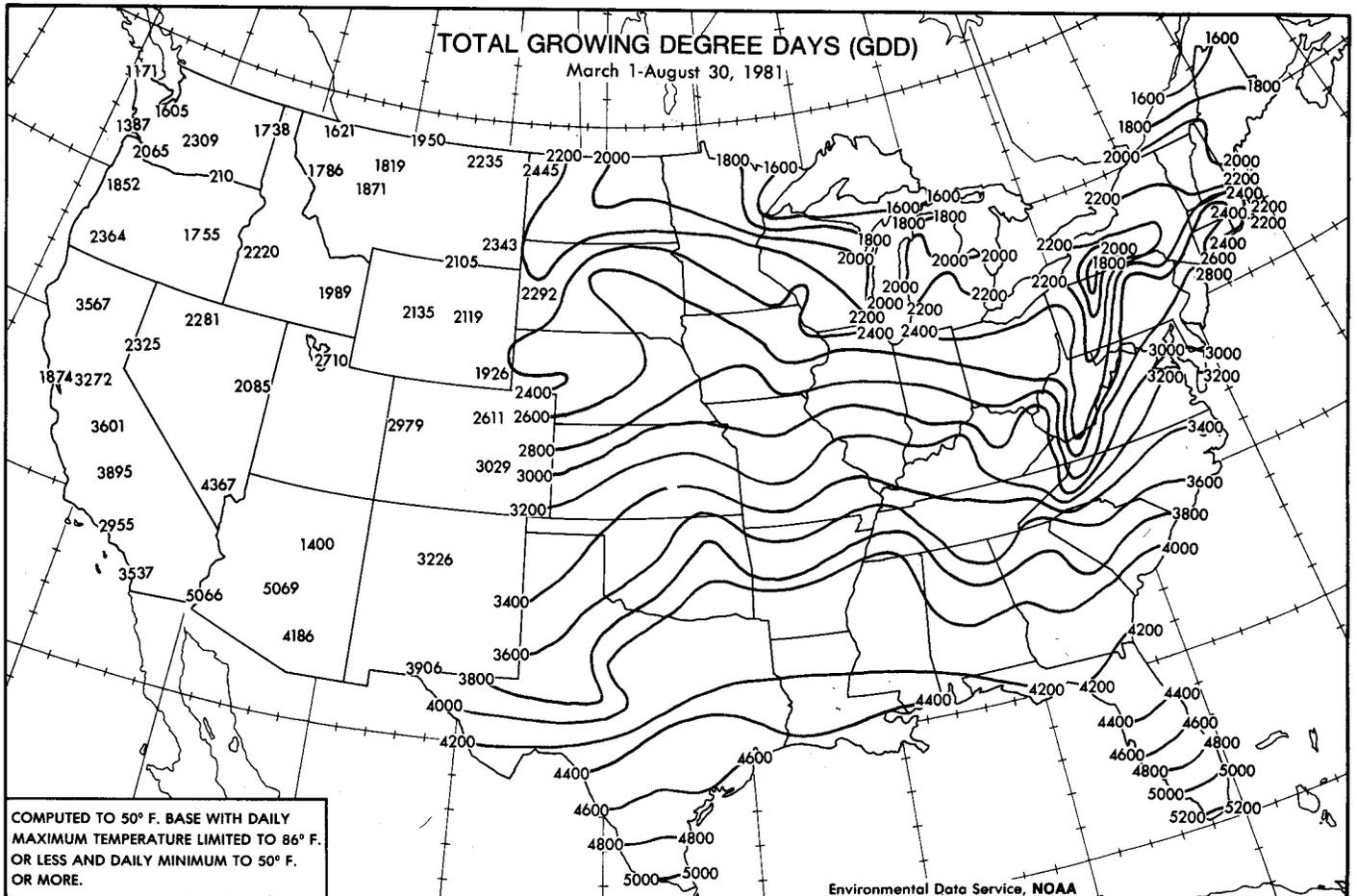
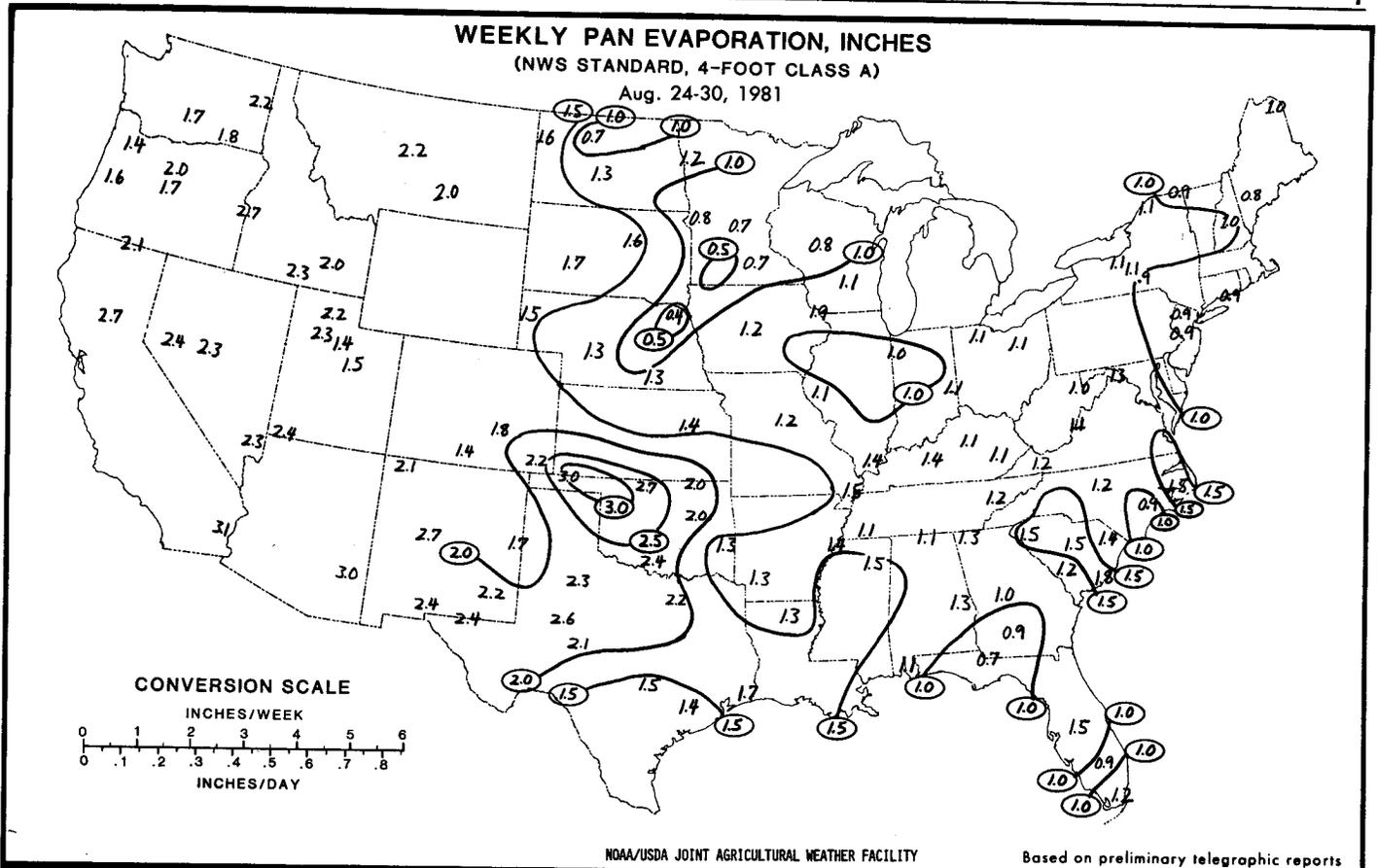
**OUTLOOK FOR FALL AVERAGE TEMPERATURES
SEPTEMBER THROUGH NOVEMBER 1981**

-  ABOVE NORMAL, 60% CHANCE OF OCCURRENCE
-  BELOW NORMAL, 60% CHANCE OF OCCURRENCE
-  INDETERMINATE, 50% CHANCE OF ABOVE NORMAL
50% CHANCE OF BELOW NORMAL



The two categories Above and Below are to be compared to the long-term average or "normal" temperatures of the year 1941-70. Each category has a natural climatic frequency or probability of 50%. Each carries a 60% probability of occurring where forecast (shaded area), based on the verification scores of twenty-two years of experimental seasonal predictions.





Weather Data for the Week Ending Aug. 30, 1981

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE June 1	PCT. NORMAL SINCE June 1	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERA-TURE		PRECIPI-TATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	89	68	91	65	78	0	.1	.8	.1	10.2	76	28.6	75	90	53	3	0	1	0
AL MOBILE	89	74	91	72	82	1	.2	1.4	.2	18.0	82	44.5	91	93	58	3	0	1	0
AL MONTGOMERY	89	71	90	68	80	0	1.0	.2	.7	11.2	90	34.1	98	91	56	2	0	3	0
AK ANCHORAGE	62	49	74	44	56	2	T	.6	T	9.8	175	12.9	152	90	61	0	0	0	0
AK BARROW	39	26	62	24	33	-4	T	.2	T	2.8	122	--	--	100	75	0	7	1	0
AK FAIRBANKS	72	45	84	35	58	6	T	.4	T	5.6	104	7.1	91	84	32	0	0	0	0
AK JUNEAU	64	48	75	45	56	3	1.1	.2	.7	11.0	88	27.4	92	94	66	0	0	4	1
AK KODIAK	64	52	71	45	58	4	.1	1.0	.1	8.4	71	45.0	133	93	74	0	0	4	0
AK NOME	64	54	69	50	59	11	.8	.1	.5	6.6	99	12.0	114	96	72	0	0	4	0
AZ FLAGSTAFF	83	51	86	49	67	5	.7	.1	.3	7.6	133	16.4	125	92	32	0	0	6	0
AZ PHOENIX	111	88	113	86	100	12	0	.3	0	1.3	62	4.4	98	37	16	7	0	0	0
AZ TUCSON	103	77	105	74	90	7	T	.4	T	7.2	150	12.2	169	43	15	7	0	0	0
AZ WINSLOW	95	61	97	59	78	3	.1	.3	T	4.1	128	6.2	109	--	--	7	0	2	0
AZ YUMA	113	84	120	81	99	7	T	.1	T	.3	43	1.4	67	47	20	7	0	1	0
AR FORT SMITH	85	67	91	64	77	-3	.9	.2	.7	13.5	135	29.4	99	97	58	3	0	2	0
AR LITTLE ROCK	91	70	95	70	81	2	.1	.6	.1	9.3	102	31.9	96	90	5	0	2	0	0
CA BAKERSFIELD	98	71	108	63	85	5	0	0	0	0	0	4.4	110	56	23	6	0	0	0
CA EUREKA	64	54	66	51	59	2	0	.1	0	.6	50	19.0	79	95	75	0	0	0	0
CA FRESNO	99	65	105	56	82	5	0	0	0	0	0	7.5	107	74	23	7	0	0	0
CA LOS ANGELES	91	66	91	62	73	4	0	0	0	T	+100	6.6	84	82	52	1	0	0	0
CA RED BLUFF	99	64	109	59	81	3	0	.1	0	T	0	16.3	117	56	14	6	0	0	0
CA SAN DIEGO	85	72	92	69	79	7	0	0	0	T	+100	8.5	142	87	51	1	0	0	0
CA SAN FRANCISCO	76	53	88	50	64	1	T	0	T	0	0	12.2	99	86	42	0	0	0	0
CA STOCKTON	97	60	106	55	78	4	0	0	0	0	0	9.2	102	69	17	6	0	0	0
CO DENVER	87	59	95	52	73	4	.2	.1	.1	2.9	59	10.7	90	77	25	4	0	2	0
CO GRAND JUNCTION	92	65	97	61	78	5	.3	.1	.3	1.2	60	5.1	102	55	21	5	0	3	0
CO PUEBLO	90	58	97	55	74	1	.6	.2	.5	4.1	76	6.4	84	84	31	5	0	3	0
CT BRIDGEPORT	77	62	81	55	69	-2	T	.8	T	6.8	70	17.8	70	87	52	0	0	0	0
CT HARTFORD	78	54	89	46	66	-2	T	.9	T	6.1	57	19.0	67	87	45	0	0	0	0
DC WASHINGTON	86	68	91	64	77	2	.7	.3	.7	12.0	98	22.6	84	91	54	2	0	1	1
FL APALACHICOLA	86	73	89	69	79	-2	1.3	.7	1.0	21.0	100	29.8	75	94	73	0	0	4	1
FL DAYTONA BEACH	88	74	91	72	81	0	4.5	2.9	2.7	14.5	72	25.3	75	94	66	2	0	5	3
FL FORT MYERS	92	79	94	77	86	3	4.3	2.5	2.6	36.7	146	43.6	115	78	50	7	0	5	2
FL JACKSONVILLE	86	71	89	65	79	-2	1.2	.7	.8	12.0	57	24.9	66	99	69	0	0	5	1
FL KEY WEST	89	80	90	77	84	0	.4	.9	.2	10.9	84	15.3	67	95	73	3	0	4	0
FL MIAMI	91	77	95	75	84	1	1.4	.3	.8	20.6	92	32.3	84	93	59	4	0	4	1
FL ORLANDO	90	74	95	73	82	1	1.5	.1	.5	22.0	100	30.7	84	96	59	6	0	4	1
FL TALLAHASSEE	87	71	90	66	79	-1	.5	1.0	.3	14.9	67	36.6	82	99	51	2	0	3	0
FL TAMPA	88	73	91	72	81	-2	2.3	.5	1.2	18.9	83	28.1	77	100	65	3	0	7	2
FL WEST PALM BEACH	91	74	94	73	83	0	1.0	.8	.8	18.5	87	31.8	84	96	61	6	0	5	1
GA ATLANTA	87	68	91	64	77	1	.6	.1	.3	8.3	69	25.7	74	89	50	2	0	1	0
GA AUGUSTA	87	64	90	59	75	-3	1.5	.7	1.5	14.9	117	31.1	98	100	55	1	0	1	1
GA MACON	88	67	92	60	78	-2	0	.8	0	14.3	119	32.8	101	94	54	1	0	0	0
GA SAVANNAH	86	70	89	66	78	-2	1.3	.1	1.2	19.3	96	31.1	83	97	59	0	0	4	1
HI HILO	82	69	83	66	76	0	.9	1.4	.2	15.1	58	--	--	85	60	0	0	7	0
HI HONOLULU	88	72	90	70	80	-1	.1	.1	.1	1.2	71	5.6	39	85	49	1	0	0	0
HI KAHULUI	90	71	92	69	81	2	T	.1	T	.7	64	--	--	71	46	4	0	0	0
HI LIHUE	88	74	89	73	81	2	.6	.1	.2	6.8	119	--	--	85	57	0	0	4	0
ID BOISE	90	54	97	49	72	3	0	.1	0	1.0	59	9.0	113	50	15	5	0	0	0
ID LEWISTON	87	59	91	50	73	4	T	.2	T	2.8	88	8.9	99	49	19	3	0	0	0
ID POCATELLO	93	55	98	50	74	7	T	.1	T	1.3	57	8.9	122	59	16	6	0	1	0
IL CAIRO	87	72	91	70	79	2	.9	0	.6	14.0	126	32.5	97	--	--	2	0	3	1
IL CHICAGO	82	65	86	60	73	4	1.6	1.0	.4	15.4	148	30.4	135	100	64	0	0	6	0
IL MOLINE	83	66	87	63	74	3	.6	.2	.5	13.9	113	23.2	90	96	63	0	0	3	1
IL PEORIA	83	68	86	67	75	4	.3	.4	.2	18.2	173	33.3	133	96	70	0	0	2	0
IL ROCKFORD	82	66	85	61	74	4	2.3	1.5	.8	13.9	113	24.3	95	96	68	0	0	5	3
IL SPRINGFIELD	84	69	89	68	76	4	1.0	.4	.4	24.5	231	40.0	163	95	64	0	0	5	0
IN EVANSVILLE	86	68	89	65	77	3	3.3	2.7	2.5	12.9	128	33.4	111	89	60	0	0	3	2
IN FORT WAYNE	81	64	83	60	73	3	.7	.1	.6	12.4	117	26.6	104	91	58	0	0	3	1
IN INDIANAPOLIS	83	56	86	58	75	3	.8	.1	.6	9.1	86	28.8	105	89	61	0	0	3	1
IN SOUTH BEND	80	65	83	61	73	4	1.9	1.2	.7	13.3	125	29.0	116	98	68	0	0	4	2
IA BURLINGTON	80	65	83	64	73	1	1.8	1.0	1.1	20.6	178	33.0	135	98	67	0	0	4	2
IA DES MOINES	80	65	83	63	73	2	1.8	1.1	1.1	17.0	148	23.4	101	93	64	0	0	4	2
IA DUBUQUE	78	65	81	63	71	3	3.2	2.2	2.2	17.5	130	27.4	97	99	65	0	0	4	2
IA SIOUX CITY	78	63	84	59	70	0	.2	.5	.1	9.3	88	14.3	73	88	64	0	0	3	0
KS CONCORDIA	85	62	96	58	74	-1	.1	.7	.1	16.4	145	26.8	129	94	47	2	0	1	0
KS DODGE CITY	93	66	100	59	80	4	T	.5	T	8.9	99	17.6	108	77	30	5	0	1	0
KS GOODLAND	89	55	96	48	72	1	T	.4	T	3.0	39	19.7	147	84	25	4	0	1	0
KS TOPEKA	83	64	96	59	74	-1	1.2	.3	1.2	19.6	138	29.7	115	98	62	1	0	2	1
KS WICHITA	92	66	100	59	79	1	.1	.7	.1	7.8	65	17.3	78	82	35	4	0	1	0
KY LEXINGTON	84	64	86	60	74	1	.5	.2	.5	10.2	80	26.9	82	98	57	0	0	2	0
KY LOUISVILLE	87	68	90	66	77	3	1.3	.6	1.0	10.5	98	24.6	79	93	53	1	0	2	1
LA BATON ROUGE	91	73	93	69	82	1	.8	.1	.8	13.5	91	31.4	81	100	61	5	0	2	1

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

+100 = NORMAL & ACTUAL NEAR THE SAME

Weather Data for the Week Ending Aug. 30, 1981

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION								RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE June 1	PCT. NORMAL SINCE June 1	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	TEMPERATURE °F		PRECIPITATION	
																		.01 INCH OR MORE	.50 INCH OR MORE		
LAKE CHARLES	88	73	92	71	80	-1	1.7	.7	1.2	25.5	156	39.7	104	95	63	4	0	2	1		
NEW ORLEANS	89	73	92	71	81	0	6.0	4.7	2.1	21.6	131	41.3	104	97	66	4	0	5	4		
SHREVEPORT	93	68	96	66	81	-1	.2	.4	.2	9.6	110	30.0	97	99	50	7	0	3	0		
ME CARIBOU	74	46	80	40	60	0	.1	.8	T	19.1	172	32.2	140	84	42	0	0	2	0		
PORTLAND	72	50	78	47	61	-3	.5	.2	.5	13.1	156	28.3	109	92	55	0	0	1	0		
MD BALTIMORE	86	64	91	61	75	1	.2	.7	.2	11.5	96	21.8	79	83	48	1	0	1	0		
MA BOSTON	75	58	82	51	67	-3	T	.8	T	6.2	67	18.6	68	91	52	0	0	1	0		
CHATHAM	70	56	79	52	63	-1	.8	.1	.8	10.2	100	26.2	95	73	0	0	1	1			
MI ALPENA	74	53	77	41	64	2	.7	0	.3	5.7	70	13.7	74	100	62	0	0	5	0		
FLINT	78	59	80	45	58	2	1.5	.8	1.2	10.0	102	20.5	91	87	57	0	0	4	1		
GRAND RAPIDS	81	64	85	54	73	4	2.0	1.3	.9	10.2	106	21.0	100	99	62	0	0	5	1		
HOUCHTON LAKE	73	58	78	45	66	3	2.5	1.8	1.9	11.1	121	29.2	135	95	64	0	0	4	1		
LANSING	30	61	83	47	71	3	1.5	.9	.7	13.0	148	22.7	121	97	68	0	0	4	1		
MARQUETTE	70	54	75	45	62	2	1.8	1.1	.9	6.9	77	19.8	94	99	62	0	0	5	1		
MUSKEGON	79	64	84	59	72	4	.3	.5	.2	9.4	83	21.5	92	99	71	0	0	3	0		
SAULT STE. MARIE	75	54	77	48	65	3	2.2	1.6	1.5	8.6	121	19.7	98	98	65	0	0	3	2		
MN DULUTH	69	54	78	49	61	0	.2	.7	.1	8.8	96	17.6	89	95	55	0	0	3	0		
INT'L FALLS	81	59	85	50	70	10	.3	.5	.3	11.9	100	20.3	94	93	68	0	0	3	0		
MINNEAPOLIS	74	64	81	59	69	2	0	.8	0	7.3	65	13.0	71	93	51	0	0	3	0		
ROCHESTER	74	61	78	57	67	1	2.7	2.0	1.2	13.4	125	20.8	107	89	68	0	0	5	3		
SAINT CLOUD	72	58	81	52	65	0	1.9	1.0	.8	18.4	153	26.4	128	97	76	0	0	6	4		
MS JACKSON	94	71	96	68	82	2	1.4	.5	.8	10.7	92	18.2	89	97	71	0	0	2	1		
MERIDIAN	95	69	97	66	82	3	.5	.3	.5	13.0	115	31.4	89	94	40	7	0	1	0		
MO COLUMBIA	85	67	92	63	76	2	.4	.5	.3	7.5	58	30.3	81	92	40	7	0	2	0		
KANSAS CITY	82	65	92	61	73	2	1.9	1.1	1.6	22.4	195	38.9	147	93	59	2	0	3	1		
SAINT LOUIS	85	69	90	67	77	2	.6	.3	.3	18.4	137	32.0	121	98	66	1	0	3	0		
SPRINGFIELD	87	66	92	61	76	1	1.1	.5	.9	18.7	172	34.7	136	98	62	1	0	4	1		
MT BILLINGS	90	56	94	48	73	6	2.6	1.8	1.9	16.6	148	30.8	112	94	57	2	0	5	2		
GLASGOW	87	58	95	52	72	7	.1	.2	.1	3.8	86	13.7	132	68	24	4	0	1	0		
GREAT FALLS	88	54	92	46	71	7	T	.3	T	3.9	66	6.7	73	70	27	2	0	0	0		
HAVRE	88	56	93	48	72	7	.5	.2	.5	3.6	65	12.1	104	61	19	4	0	1	0		
HELENA	88	52	96	46	70	7	T	.2	T	4.0	82	7.5	83	70	22	3	0	1	0		
KALISPELL	87	51	99	42	69	9	.1	.2	.1	2.9	67	11.2	135	66	19	4	0	1	0		
MILES CITY	88	60	97	54	74	5	.5	.2	.3	5.6	112	14.9	128	79	22	3	0	5	0		
MISSOULA	89	53	99	47	71	9	T	.3	T	4.1	67	7.6	70	69	27	3	0	0	0		
NE GRAND ISLAND	81	62	90	59	72	0	.5	.3	.5	5.5	138	12.6	134	74	20	3	0	1	1		
LINCOLN	81	63	92	55	72	-1	.4	.5	.3	8.4	82	17.5	94	94	55	1	0	2	0		
NORFOLK	79	61	85	57	70	0	.7	.1	.4	9.3	79	16.4	80	98	71	1	0	3	0		
NORTH PLATTE	84	56	93	48	70	0	-1	.7	.1	11.3	107	16.8	88	97	62	0	0	5	0		
OMAHA	78	63	86	59	70	-1	2.5	1.6	1.6	14.4	114	21.4	94	95	71	0	0	2	0		
VALENTINE	83	57	102	49	70	1	.3	.2	.1	10.3	121	14.4	97	92	43	2	0	4	1		
NV ELY	90	54	91	49	72	9	T	.1	T	.4	21	5.9	107	54	15	4	0	1	0		
LAS VEGAS	107	81	109	79	94	9	0	.1	0	.2	20	2.4	86	31	13	7	0	0	0		
RENO	94	46	98	40	70	5	0	0	0	.3	27	2.8	58	63	10	7	0	0	0		
WINNEMUCCA	95	47	98	44	71	6	T	.1	T	0	4.1	75	33	8	6	0	0	0	0		
NH CONCORD	75	48	80	40	61	-4	1.2	.5	1.2	11.4	121	27.2	118	98	51	0	0	3	1		
NJ ATLANTIC CITY	82	62	89	59	72	0	0	1.0	0	9.4	74	24.5	79	92	53	0	0	0	0		
TRENTON	79	65	83	61	72	0	1.4	.4	1.4	11.1	93	24.1	86	95	57	0	0	1	1		
NM ALBUQUERQUE	91	61	95	57	76	1	.1	.2	.1	3.1	94	5.5	98	70	24	5	0	2	0		
ROSWELL	89	64	95	61	76	0	.2	.3	.1	15.6	332	20.5	270	78	31	3	0	1	0		
NY ALBANY	75	54	80	45	65	-3	.1	.5	.2	8.0	91	18.3	84	92	54	0	0	2	0		
BINCHAMTON	75	58	78	48	66	1	.4	.4	.4	7.3	69	18.0	71	87	53	0	0	1	0		
BUFFALO	74	61	83	53	68	1	.9	0	.4	11.8	134	23.7	103	93	60	0	0	3	0		
NEW YORK	79	66	84	63	73	0	.1	.9	.1	8.6	75	21.9	77	79	49	0	0	3	0		
ROCHESTER	74	60	83	49	67	0	.2	.4	.1	11.8	144	21.6	103	94	63	0	0	4	0		
SYRACUSE	79	58	83	48	68	0	.7	.1	.7	7.3	76	17.0	70	92	52	0	0	1	1		
NC ASHEVILLE	82	61	86	55	71	0	T	.9	T	6.9	52	25.0	78	99	55	0	0	0	0		
CHARLOTTE	82	66	86	62	74	-2	.2	.6	.2	11.3	92	23.3	75	90	49	0	0	1	0		
GREENSBORO	83	63	87	59	73	-2	1.1	.2	.7	14.5	117	25.2	88	81	44	0	0	2	1		
HATTERAS	81	70	85	64	75	-2	.1	1.4	.1	24.6	143	37.7	104	90	65	0	0	1	0		
RALEIGH	81	61	84	56	71	-5	T	1.0	T	11.5	85	23.2	77	98	53	0	0	2	0		
WILMINGTON	83	67	86	63	75	-4	.1	1.3	.1	21.8	106	35.4	93	98	64	0	0	3	0		
ND BISMARCK	82	56	92	48	69	3	.7	.3	.4	8.5	110	10.7	82	93	43	1	0	3	0		
FARGO	77	59	83	49	68	2	.8	.2	.7	7.3	78	10.5	81	93	56	0	0	2	1		
WILLISTON	90	58	98	54	74	9	T	.3	T	6.9	99	9.2	82	79	31	3	0	1	0		
OH AKRON-CANTON	82	60	87	53	71	2	.7	.1	.5	11.3	113	31.0	122	88	49	0	0	4	0		
CINCINNATI	85	64	87	58	75	2	.2	.4	.1	9.3	89	25.9	92	90	49	0	0	3	0		
CLEVELAND	80	61	85	53	71	2	.2	.4	.2	12.7	130	24.7	98	86	51	0	0	3	0		
COLUMBUS	82	61	85	55	71	1	.6	.1	.4	11.2	102	29.7	108	92	56	0	0	2	0		
DAYTON	84	64	87	58	74	3	1.3	.7	1.3	14.7	147	29.5	116	93	56	0	0	1	1		
TOLEDO	81	61	84	54	71	2	.6	.1	.4	13.8	141	23.8	106	97	58	0	0	2	0		
YOUNGSTOWN	81	58	84	51	69	2	.8	.1	.7	8.6	81	24.3	91	86	47	0	0	4	1		
OK OKLAHOMA CITY	93	68	98	65	81	1	.6	.1	.6	17.5	186	27.3	120	88	38	6	0	1	1		

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

Weather Data for the Week Ending Aug. 30, 1981

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE June 1	PCT. NORMAL SINCE June 1	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERA- TURE °F		PRECIPI- TATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
OR TULSA	90	70	94	64	80	0	.2	-.6	.2	12.1	109	24.8	95	89	50	4	0	1	0
OR ASTORIA	69	51	74	46	60	0	.1	-.4	.1	6.9	141	34.2	93	93	64	0	0	1	0
OR BURNS	85	41	89	36	63	-1	0	-.1	0	.9	47	7.3	100	--	0	0	0	0	0
OR MEDFORD	85	50	92	47	67	-1	0	-.1	0	.9	53	6.3	55	72	22	1	0	0	0
OR PENDLETON	79	55	85	49	67	-2	0	-.1	0	2.4	141	9.0	115	59	24	0	0	0	0
OR PORTLAND	78	56	85	50	67	2	.1	-.1	.1	3.6	129	15.5	75	87	35	0	0	2	0
OR SALEM	78	49	85	41	64	-1	T	-.2	T	3.6	144	16.7	73	96	37	0	0	0	0
PA ALLENTOWN	80	60	85	55	70	1	.2	-.7	.2	10.1	85	24.4	85	94	55	0	0	1	0
PA ERIE	79	65	86	60	72	6	.5	-.3	.2	11.9	117	27.8	113	82	55	0	0	3	0
PA HARRISBURG	83	62	88	55	72	0	1.2	-.5	.7	13.0	134	25.0	100	95	53	0	0	2	2
PA PHILADELPHIA	82	66	87	63	74	1	.3	-.6	.3	14.0	120	26.3	96	90	50	0	0	2	0
PA PITTSBURGH	82	59	87	52	71	2	.6	-.1	.5	13.1	126	26.7	103	90	45	0	0	2	1
PA SCRANTON	78	61	81	53	70	2	.5	-.1	.4	9.4	88	25.3	106	84	55	0	0	2	0
RI PROVIDENCE	78	53	85	41	65	-3	T	-.9	T	8.6	93	20.8	76	92	46	0	0	0	0
SC CHARLESTON	86	72	91	67	79	0	.9	-.5	.7	28.9	139	40.5	105	92	62	1	0	3	1
SC COLUMBIA	85	64	88	57	75	-4	.2	-1.0	.2	15.3	103	27.7	82	99	53	0	0	2	0
SD GREENVILLE	84	65	87	60	74	-2	0	-.9	0	7.8	64	20.3	62	88	48	0	0	0	0
SD ABERDEEN	82	59	92	50	71	3	.8	-.4	.5	9.0	105	13.2	88	94	49	1	0	2	0
SD HURON	83	60	90	53	71	2	.2	-.3	.1	8.5	105	11.4	75	100	53	1	0	2	0
SD RAPID CITY	85	54	99	50	69	1	T	-.3	T	8.2	109	11.7	80	89	32	2	0	0	0
SD SIOUX FALLS	76	60	84	55	68	-1	.9	-.2	.6	10.2	101	13.6	72	93	62	0	0	5	1
TN CHATTANOOGA	86	66	88	62	76	0	1.9	1.2	1.6	12.0	93	30.5	87	94	48	0	0	3	1
TN KNOXVILLE	87	69	89	67	78	2	.1	-.6	.1	11.1	96	26.5	80	90	50	0	0	1	0
TN MEMPHIS	91	74	94	73	82	3	1.0	.3	.8	6.4	63	27.1	77	88	54	5	0	3	1
TN NASHVILLE	86	67	88	64	77	-1	1.8	1.1	1.2	14.7	141	31.4	96	91	53	0	0	2	2
TX ABILENE	95	71	98	70	83	1	0	-.5	0	5.0	68	14.5	87	75	30	7	0	0	0
TX AMARILLO	88	63	91	58	75	0	1.2	-.6	1.1	9.2	100	14.5	99	88	38	3	0	2	1
TX AUSTIN	94	75	98	73	84	1	.7	-.1	.6	19.2	274	35.1	161	83	45	6	0	2	1
TX BEAUMONT	89	75	93	74	82	0	2.4	-.7	.4	20.7	129	35.4	97	93	61	5	0	2	0
TX BROWNSVILLE	91	76	93	74	83	-1	2.7	1.9	1.5	9.2	144	21.6	155	94	61	6	0	5	2
TX CORPUS CHRISTI	89	75	93	74	82	-2	5.2	4.3	2.8	14.9	194	31.3	178	95	66	5	0	4	3
TX DEL RIO	97	71	100	70	84	0	.4	-.1	.3	8.4	195	20.3	192	83	40	7	0	2	0
TX EL PASO	94	65	98	63	79	0	0	-.2	0	8.0	242	11.3	222	74	25	7	0	0	0
TX FORT WORTH	96	71	98	68	83	0	.2	-.5	.2	12.1	166	26.5	116	87	38	7	0	1	0
TX GALVESTON	87	78	90	75	83	0	1.6	-.5	1.5	18.1	141	26.5	99	88	72	1	0	4	1
TX HOUSTON	93	74	98	70	83	1	.7	-.3	.7	14.9	115	32.8	104	95	50	6	0	1	1
TX LUBBOCK	87	64	91	62	76	-1	T	-.4	T	9.6	141	15.0	117	83	39	3	0	1	0
TX MIDLAND	93	66	94	64	79	-1	T	-.3	T	4.1	85	10.2	112	82	29	7	0	0	0
TX SAN ANGELO	92	65	95	62	78	-4	.1	-.4	.1	6.0	130	18.7	167	92	37	7	0	1	0
TX SAN ANTONIO	93	72	99	70	82	-1	.6	-.1	.6	11.4	163	26.0	144	93	51	6	0	2	1
TX VICTORIA	88	73	94	71	81	-3	2.9	2.1	1.1	17.9	197	32.3	149	98	66	4	0	5	3
TX WACO	97	72	100	68	84	0	1.3	.7	1.1	9.5	158	20.2	95	88	42	7	0	3	1
TX WICHITA FALLS	97	69	102	63	83	0	T	-.5	T	8.2	112	21.1	109	80	30	7	0	0	0
UT BLANDING	89	57	93	55	73	4	.1	-.3	T	3.8	127	8.4	114	61	28	1	0	3	0
UT SALT LAKE CITY	94	67	97	63	80	9	.2	0	.1	1.5	52	9.3	87	53	15	7	0	3	0
VT BURLINGTON	74	55	78	46	64	-1	.4	-.4	.3	11.9	113	26.1	124	94	57	0	0	3	0
VA LYNCHBURG	82	61	88	57	72	-1	1.2	.3	1.2	14.4	125	24.6	93	93	48	0	0	1	1
VA NORFOLK	80	64	84	59	72	-4	0	-1.2	0	17.0	113	27.1	87	96	58	0	0	0	0
VA RICHMOND	84	63	88	61	74	-1	.1	-.9	.1	10.6	75	25.4	86	93	50	0	0	2	0
VA ROANOKE	85	59	89	55	72	-1	.2	-.7	.2	6.7	61	18.5	70	91	41	0	0	1	0
WA COLVILLE	82	50	88	45	66	1	T	-.2	T	7.5	234	16.5	159	80	35	0	0	2	0
WA OMAK	87	53	91	51	70	--	0	--	0	1.4	--	6.5	--	--	3	0	0	0	0
WA QUILLAYUTE	68	48	72	43	58	0	.4	-.3	.2	10.3	123	55.1	94	99	62	0	0	2	0
WA SEATTLE-TACOMA	73	55	76	50	64	1	.1	-.2	.1	3.9	122	16.1	77	86	41	0	0	2	0
WA SPOKANE	81	53	85	47	67	1	T	-.1	T	2.5	104	9.5	86	67	24	0	0	1	0
WA WALLA-WALLA	83	60	89	53	71	0	0	-.1	0	3.4	162	14.0	133	53	24	0	0	0	0
WA YAKIMA	81	50	85	44	66	-1	0	-.1	0	.8	62	3.3	72	76	26	0	0	0	0
WV BECKLEY	78	58	82	55	68	0	0	-.8	0	11.2	90	24.3	79	94	50	0	0	0	0
WV CHARLESTON	88	60	91	54	74	1	T	-.7	T	11.8	98	27.2	92	98	43	1	0	0	0
WV HUNTINGTON	88	63	90	54	75	3	T	-.7	T	10.6	96	29.7	105	98	43	2	0	1	0
WV PARKERSBURG	85	61	89	54	73	1	.3	-.5	.2	10.9	92	23.6	83	92	43	0	0	2	0
WI GREEN BAY	74	62	77	60	68	3	.8	.2	.3	6.7	74	14.7	78	99	75	0	0	4	0
WI LA CROSSE	76	65	82	63	71	2	2.5	1.7	1.5	19.5	177	28.6	135	100	79	0	0	4	2
WI MADISON	78	63	81	56	70	4	2.8	2.0	1.2	15.4	138	22.3	103	91	66	0	0	3	3
WI MILWAUKEE	75	63	79	59	69	2	2.2	1.5	.9	10.5	109	22.0	109	100	77	0	0	5	2
WY CASPER	89	52	93	48	71	4	T	-.1	T	2.2	81	8.9	111	63	17	4	0	0	0
WY CHEYENNE	80	54	89	48	67	2	.1	-.2	T	7.5	129	14.9	125	81	33	0	0	2	0
WY LANDER	86	56	89	50	71	5	T	-.1	T	1.7	57	8.9	90	58	23	0	0	2	0
WY SHERIDAN	90	53	94	49	72	6	T	-.3	T	5.7	119	11.7	97	70	21	4	0	0	0
PR SAN JUAN	91	79	93	78	85	3	.1	-1.4	.1	15.8	84	39.6	107	93	63	7	0	2	0

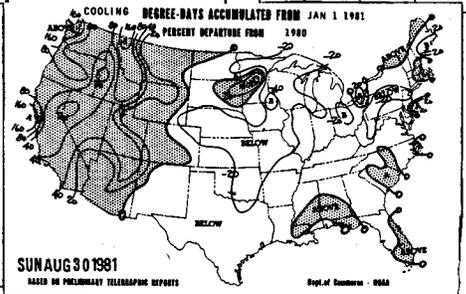
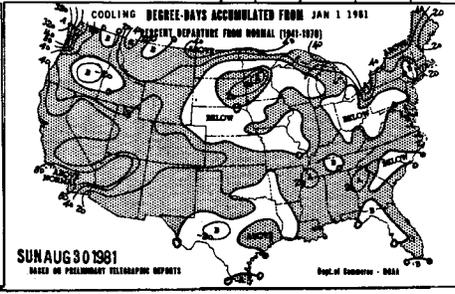
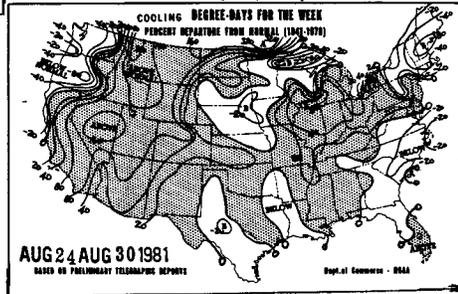
BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

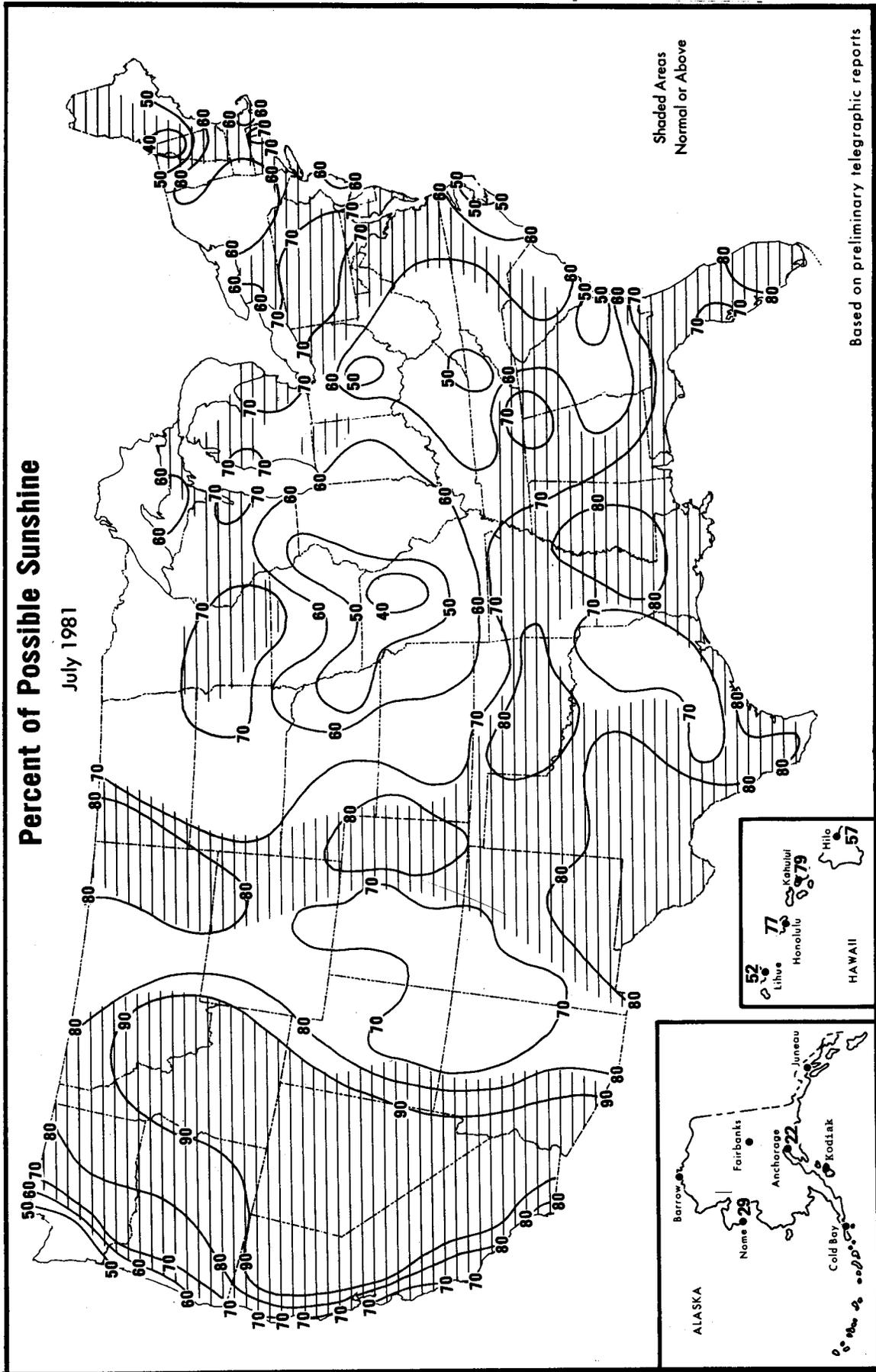
COOLING DEGREE DAYS (BASE 65°) FOR WEEK ENDING AUG. 30, 1981.

BASED ON 1941-70 NORMALS

+ ACCUMULATION FROM JAN 1, 1981.

Table with columns for STATES AND STATIONS, WEEKLY DEPARTURE*, SEASONAL ACCUMULATION +, and WEEKLY DEPARTURE*, SEASONAL ACCUMULATION +. Rows list various states and cities with their respective cooling degree day data.





National Agricultural Summary

August 24-30, 1981

HIGHLIGHTS: Timely rains fell in most areas of the eastern half of the Nation, although in parts of the Corn Belt heavier amounts saturated soils. Wet conditions in the northern Plains eastward to Wisconsin delayed small grain harvests, but benefitted row crops. Record high temperatures in parts of the Southwest and central California sapped moisture from the already dry soils.

Farmers in the North Central States had 1 to 5 days suitable for fieldwork while 5 to 7 days were available in most other regions of the Nation. Soil moisture supplies were rated adequate to surplus in Illinois and Minnesota, very short to short in Mississippi, West Virginia, and parts of South Dakota, and short to mostly adequate elsewhere. Corn was in mostly good condition. In the major producing States, 82% of the crop was in or past the dough stage, 43% was in or past the dent stage, and 9% was mature. Harvesting became more widespread in the South and advanced northward into Virginia and Kentucky. Soybeans were in fair to mostly good condition. Blooming was virtually finished and 86% of the acreage had set pods. Leaves were turning yellow in early-planted fields. Cotton rated fair to good. Bolls opened on 27% of the acreage. Harvesting centered in Arizona and Texas, but was starting in Mississippi. Winter wheat combining was complete except in the Northwest. Seeding of the 1982 crop began on a limited basis. Sorghum heading reached 93% complete and 25% of the acreage was mature. Harvesting was active in Texas, Oklahoma, and Missouri. Rice harvest advanced to 33% complete; the Texas harvest neared completion. Tobacco topping, harvesting, and marketing continued active. Pastures and ranges in the eastern part of the Nation were in fair to good condition, benefiting from recent rains. In the West, the risk of range fires remained high due to dry weather.

CORN: Corn was in mostly good condition, although the crop rated excellent in some areas of the Corn Belt. A few poor to fair stands were reported in the Southeast. In the 17 major producing States, 82% of the crop was in or past the dough stage; 43% was in or past the dent stage of development, 20 points behind last year; and 9% was mature. Harvesting gained momentum in the South where progress ranged up to 67% in Georgia. Harvesting was underway as far north as Virginia and Kentucky.

SOYBEANS: Soybeans rated fair to mostly good except in the Corn Belt where some excellent conditions were reported and Mississippi where dry weather resulted in poor to fair conditions. Nearly all of the crop had bloomed and in the 18 major producing States 86% had set pods, 3 points behind last year. Leaves were turning color in early-planted fields and in some fields leaves had started shedding.

COTTON: Cotton continued in fair to good condition. In the 14 major producing States bolls had opened on 27% of the acreage, 1 point behind a year earlier. Harvesting neared completion in the Rio Grande Valley of Texas and made good progress in the Coastal Bend area before being interrupted by showers. Arizona cotton continued to progress well ahead of normal. Harvesting was getting underway in parts of Mississippi.

SMALL GRAINS: Winter wheat combining was virtually finished in major producing areas except in the northwestern third of the Nation. Harvesting in Idaho reached 87% finished, and Montana 95%.

Plowing for winter wheat became more widespread with progress reaching 25% in Indiana. Oklahoma producers were 60% finished preparing seedbeds. Seeding of the 1982 crop started on a limited basis in Colorado, Montana, Utah, and Wyoming.

SORGHUM: Grain sorghum heading in the seven major States reached 93% complete and 25% of the acreage was mature. Harvesting was 65% complete in Texas, 2% in Oklahoma, and 1% in Missouri. The Texas harvest neared completion in the Blacklands and southern areas and was underway on the Low Plains and Edwards Plateau.

OTHER CROPS: Rice heading reached 91% complete and harvesting was 33% finished. Harvesting neared completion in Texas and was underway in all other areas except California.

Tobacco growers continued topping and harvesting activities. Harvesting was underway in most producing regions, although progress was slowed due to wet fields.

Idaho's potato harvest was just beginning. The New York harvest continued on Long Island and was underway in upstate areas.

FRUITS AND NUTS: Fruit harvest moved actively in northern production areas where apples, peaches, plums, and nectarines were picked. The peach harvest neared completion in southern areas. Oregon filbert orchards were being prepared for harvest.

Florida's citrus groves were in very good to excellent condition. New crop fruit responded favorably to recent rain.

California growers picked table grapes and laid raisen grapes to dry. The nectarine, peach, pear, and plum harvests were past peak, but the prune harvest was in full swing. The Valencia orange harvest was 66% complete and grapefruit picking was active in southern areas. The almond harvest was in full swing; walnuts were in very good condition.

Arizona's citrus groves were in good condition with new crop fruit sizing well.

Citrus groves in Texas rated good. Fruit sized well. Pecans continued to harden and mature as growers sprayed for weevils.

VEGETABLES: The summer vegetable harvest began to decline in many northern areas. Cool weather slowed the ripening of tomatoes. Growers prepared land for fall planting, and in some areas, planted fall vegetables.

California growers continued to harvest a wide variety of vegetables with no problems encountered during the week.

Heavy rainfall in parts of Florida delayed planting activities. Progress was still on schedule except in Dade County, which was still drying out from Tropical Storm Dennis.

Fall planting was wrapping up in the San-Antonio-Winter Garden area of Texas. Irrigation was active and early planted fields progressed well.

PASTURES AND LIVESTOCK: Pastures and ranges in the eastern half of the Nation were generally in fair to good condition. Dry weather in Mississippi resulted in poor to fair conditions. Good to excellent conditions were reported in parts of the Corn Belt, reflecting the abundant moisture received. Conditions improved in Texas as grasses responded to recent moisture, but more is needed to sustain growth for fall grazing. In the West, dry weather deteriorated grasses and the risk of fire remained high.

CROP PROGRESS FOR WEEK ENDING AUG. 30, 1981
NA - NOT AVAILABLE

CORN % DOUGH				CORN % DENT				CORN % MATURE				SOYBEAN % SETTING PODS			
	1981	1980	AVG.		1981	1980	AVG.		1981	1980	AVG.		1981	1980	AVG.
COLO	77	82	74	COLO	40	38	43	COLO	6	NA	NA	ALA	80	83	NA
GA	100	100	NA	GA	100	98	NA	GA	98	94	NA	ARK	71	63	NA
ILL	93	99	95	ILL	56	82	71	ILL	7	37	30	GA	85	66	NA
IND	75	95	95	IND	25	60	50	IND	4	8	10	ILL	94	98	97
IOWA	85	92	92	IOWA	49	65	64	IOWA	5	8	14	IND	85	98	94
KANS	90	90	90	KANS	50	60	55	KANS	20	30	25	IOWA	100	100	100
KY	89	93	91	KY	62	70	65	KY	16	20	18	KANS	75	85	90
MICH	70	95	95	MICH	25	35	39	MICH	0	0	0	KY	68	90	92
MINN	67	93	81	MINN	18	65	54	MINN	0	3	9	LA	90	80	88
MO	100	93	94	MO	78	76	67	MO	22	25	19	MICH	80	100	100
NEBR	80	95	95	NEBR	35	60	60	NEBR	2	7	8	MINN	98	99	98
N C	90	99	NA	N C	93	93	NA	N C	75	74	NA	MISS	90	89	82
OHIO	80	95	90	OHIO	35	50	50	OHIO	5	15	10	MO	69	85	79
PA	84	76	78	PA	37	27	24	PA	0	0	0	NEBR	100	100	100
S DAK	67	76	81	S DAK	32	42	45	S DAK	6	7	8	N C	73	63	NA
VA	97	82	NA	VA	86	53	NA	VA	36	37	NA	OHIO	95	100	100
WIS	65	80	0	WIS	25	46	33	WIS	0	0	0	S C	68	70	72
17 STATES	82	92	NA	17 STATES	43	63	NA	17 STATES	9	NA	NA	TENN	82	90	75
EXCL. STATES WITH NA	81	92	85	EXCL. STATES WITH NA	40	61	56	EXCL. STATES WITH NA	5	13	13	18 STATES	86	89	NA

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

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

COTTON % BOLLS OPENING				SORGHUM % HEADED				SORGHUM % MATURE				SORGHUM % HARVESTED			
	1981	1980	AVG.		1981	1980	AVG.		1981	1980	AVG.		1981	1980	AVG.
ALA	28	20	9	COLO	86	97	94	COLO	0	0	0	COLO	0	0	0
ARIZ	45	31	38	KANS	90	80	85	KANS	1	3	3	KANS	0	0	0
ARK	16	33	12	MO	82	88	90	MO	19	29	21	MO	1	6	0
CALIF	25	8	NA	NEBR	100	100	100	NEBR	1	4	2	NEBR	0	0	0
GA	39	52	NA	OKLA	98	85	94	OKLA	25	15	15	OKLA	2	0	0
LA	51	31	16	S DAK	91	87	92	S DAK	0	5	5	S DAK	0	0	0
MISS	64	55	29	TEX	96	100	NA	TEX	67	70	NA	TEX	65	69	61
MO	4	59	11	7 STATES	93	91	NA	7 STATES	25	28	NA	7 STATES	22	24	21
N MEX	10	3	5	EXCL. STATES WITH NA	92	87	90	EXCL. STATES WITH NA	5	7	5				
N C	36	35	NA												
OKLA	1	10	1												
S C	22	62	34												
TENN	22	16	8												
TEX	22	27	NA												
14 STATES	27	28	NA												
EXCL. STATES WITH NA	34	34	18												

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

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

SPRING WHEAT % HARVESTED			
	1981	1980	AVG.
IDAHO	74	56	42
MINN	93	81	72
MONT	65	45	55
N D	84	57	62
S DAK	100	100	98
5 STATES	84	66	67

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

RICE % HEADED				RICE % HARVESTED			
	1981	1980	AVG.		1981	1980	AVG.
ARK	91	90	NA	ARK	5	5	3
CALIF	70	65	NA	CALIF	0	0	NA
LA	98	NA	NA	LA	72	68	67
MISS	96	94	90	MISS	8	9	5
TEX	100	100	NA	TEX	97	100	96
5 STATES	91	NA	NA	5 STATES	33	33	NA
EXCL. STATES WITH NA	96	94	90	EXCL. STATES WITH NA	40	40	37

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

National Weather Summary (Continued from page 1)

SUNDAY...The remnants of the tropical depression spread thunderstorms over much of southern Texas while showers and thunderstorms were scattered along the gulf coast and Atlantic Seaboard. Heavy thunderstorms continued in the midwest. Roads and farmland in parts of northern Indiana were flooded. Late in the day, thunderstorms were widespread from Arizona to the central and northern Rockies and into the northern Plains. Cooler weather spread across the Pacific coast.

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 below normal. Rainfall varied, up to 2.00 in.

Fieldwork: 5.6 days. Activities: Treating row crop pests; harvesting fruits, vegetables, corn, hay, and peanuts. Corn: Mature 96%, 91% 1980, 73% average; harvested 52%, 46% 1980. Soybeans: Blooming 98%; setting pods 80%, 83% 1980. Cotton: Bolls open 28%, 20% 1980, 9% average. Peanuts: Dug 2%, 3% 1980. Conditions: Corn, soybeans, cotton, peanuts, sorghum good; pastures fair.

ALASKA: Warmer temperatures and sunny skies allowed farmers 4 to 7 days suitable harvesting hay throughout Railbelt. Many growers finally finished baling first cutting, others made progress on second cutting. Prospects small grain varied widely. Killing frost 16th to 17th over most of Tanana Valley will have varying effects on barley crop. Most freeze damage effect late seeded grain. Over 95% barley crop turning color or beyond 5% ripe. Swathing, combining started. Harvest of potatoes continues early variety. Soil moisture supplies mostly adequate to surplus.

Tanana Valley: Warming trend continued with temperatures averaging nearly 10° above normal. However, large areas of morning frost were reported early in the week.

Matanuska Valley: Temperatures averaged 4 to 8° above normal. A relatively dry week.

Kenai Peninsula: Temperature averaged near normal. However, a couple of daily maximum temperatures were 10 to 16° above normal. No precipitation.

Kodiak Island: Warm but not wet enough. Temperatures averaged 4 to 6° above normal.

ARKANSAS: Near normal temperatures below normal rainfall. Highest temperatures 98°, lowest 58°. All departures from normal +2 to -4°. Most rainfall 2.84 in., least zero.

All crops good condition. Rice headed 91%, 90% 1980; ripe 25%; 26% 1980; harvested 5%, 5% 1980. Soybeans blooming 90%, 86% 1980; setting pods 71%, 63% 1980. Cotton bolls open 16%, 33% 1980, 12% average. Six days suitable for fieldwork. Corn harvest 30%, 30% 1980, 21% average. Sorghum harvest 29%, 28% 1980, 14% average. Soil moisture supplies mostly adequate. Forage cover on pasture slightly above average. Livestock good condition.

ARIZONA: Very hot, relatively dry. Record temperatures. Thundershowers Mogollon Rim, White Mountains. Very little rain southern, western areas. Average temperatures 3 to 12° above normal.

Cotton progress well ahead normal, virtually all crop setting bolls, 45% open bolls compared 31% last year. Sorghum good progress, earliest plantings approaching maturity, heads turning color. Alfalfa haying continued rapid pace, crop growth, cutting ahead normal. Land preparation continued full swing fall planted crops. Sugarbeet planting began. Lemon picking continued Yuma area. Land preparations, planting fall, early winter vegetables, melons well advanced. Earlier plantings good stand, especially melons. Citrus groves mostly good condition, new crop fruit sizing well. Ranges fair to good. Livestock fair to good, water supplies adequate.

CALIFORNIA: Mean temperatures above normal throughout the State but Central Valley had isolated below normal means in a few locations. Highest temperatures were well above the 100° mark. Hottest high temperatures were in the

southeast interior. Thermal topped out at 120° but Palm Springs went to 122°. No rain anywhere although some drizzle on North and Central Coasts resulted in traces being reported.

Cotton progressing well. Cotton excellent. Bolls opening at 25%, 1980 8%. Rice doing well. Percent headed at 70, 1980 65%. Early planted field being harvested. Dry bean harvest underway. Sugarbeet harvest Central Valleys. Yield good. Milo heading out. Field corn drying. Alfalfa, clover seed harvest underway. Apple harvest active Sebastopol, quarantined Santa Cruz County. Avocados continue. Raisin grapes laid. Table grapes active. Tokays much ahead of last year; crush increasing. Nectarines, peaches, pears, plums past peak. Prunes full swing. Grapefruit active Southern California, shift to Desert late October. Lemons slowing Ventura, shift to Desert soon. Valencias 66% complete, some exports cancelled. Almonds full swing. Walnuts very good condition. Harvest of vegetable crops, beans, broccoli, carrots, cauliflower, celery, lettuce, melons, peppers, and tomatoes continued in Central Valleys and Coastal areas of State. No problems encountered during past week. Range conditions continue dry, high fire danger. Movement of livestock from summer pastures beginning. Stock water supplies declining, some pods dry.

COLORADO: Scattered showers and thunderstorms most afternoons and evenings east, early in week and at end of week in mountains. Precipitation mostly below 0.50 in. Temperatures at or slightly below normal most of week, above normal most areas by 28th.

Winter wheat seeded 3%, 7% 1980, 19% average. Barley ripe 92%, 90% 1980; harvested 81%, 68% 1980, 80% average. Spring wheat harvested 39%, 33% 1980. Corn dough stage 77%, 82% 1980, 74% average; dented 40%, 38% 1980, 43% average. Sorghum headed 86%, 97% 1980, 94% average; turned color 19%, 33% 1980. Dry beans cut 14%, 17% 1980, 16% average; threshed 2%, 6% 1980 and average. Alfalfa second cutting 88%, 83% 1980, 90% average; third cutting 40%, 29% 1980, 40% average. Ranges and pastures good condition. Livestock very good condition. An average of five and one-half days suitable for fieldwork.

FLORIDA: Needed rains averaged 1.00 in. north, 2.00 to 3.00 in. central, south with amounts near 5.00 in. along the Peninsula Gulf Coast. A weak stationery frontal through combined with a midweek tropical wave produced the increased shower and thunderstorm activity. Temperatures averaged 2 to 4° below normal north and up to 2° under normal central, south due to increased cloudiness and precipitation.

Soil moisture mostly adequate. A few dry spots upper East Coast, central and extreme west. A few wet areas remain. Corn, hay harvest continues. Soybeans, cotton good to very good condition. Peanut harvest underway, yield lower than expected. Sugarcane good growth. Most pastures good to excellent condition except some northern central areas, poor to fair but improving. Cattle good condition. Citrus very good to excellent condition. Moisture adequate, some lakes and ponds refilling slightly. New growth all age trees. New fruit responding favorably to recent rain. Cloudy to partly cloudy skies and rain prevailed in vegetable areas. Heavy to very heavy rainfall delayed fieldwork, planting west central, southwest areas. Rainfall was light to moderate along lower East Coast. Plantings were on schedule except in Dade County, which is still drying out.

from Dennis. Planting eggplant, celery, peppers and tomatoes active. Snap bean planting is underway Pompano area.

GEORGIA: Temperatures averaged 2 to 3° below normal north, 5 to 8° below normal south. Rainfall averaged less than 0.25 in. north and central with almost no rain northeast. Amounts over the southeast averaged 1.00 to 1.50 in. Weekend rainfall averaged near 0.25 in. north and central but near 1.00 in. southeast. Temperatures just slightly below normal.

Soil moisture short to adequate. Five days suitable for fieldwork. Spraying, haying and preparing for fall seeding major activities. Corn poor to fair; 100% dough, this year and last; 100% dent, 98% last year; 98% mature, 94% last year; 67% harvested, 59% last year, 44% average. Peanuts fair to good; 4% dug, same as average, 2% last year; 2% threshed, same as last year and average. Soybeans fair to good; 97% blooming, 96% last year; 85% setting pods, 66% last year; 6% leaf drop, 8% last year. Cotton fair to good; 39% open, 52% last year. Tobacco 89% harvested, 90% last year, 95% average. Apples fair to good, 62% picked, 54% last year. Pecans fair to good. Pastures and hay crops fair to good. Cattle and hogs mostly good.

HAWAII: Weather generally favorable. However, hot and dry weather some areas affecting crop progress. Diseases and insects also deterrent to good crop progress some areas. Spraying frequent. Partial water restriction lifted in the dry area, Island of Hawaii. Vegetables: Supplies most crops turning light. Cucumbers, eggplant still heavy. Bananas: Supplies light. Papayas: Gradual supply increases anticipated. Seasonal flush approaching. Pineapples: Harvesting declining. Sugar: Steady harvest. Pastures: Improving. Some areas still dry.

IDAHO: Temperatures averaged from near to 7° above normal. Reported high of 103° in Grandview, low of 27° in Elk City. Only precipitation in the form of thundershowers in south central and southeastern areas.

Winter wheat harvest: 87%, 63% 1980, 73% average. Spring wheat harvest: 74%, 56% 1980, 42%. Barley harvest: 70%, 58%, 54%. Dry pea harvest: 80%, 84%, 87%. Lentil harvest: 53%, 49%, 64%. Potato harvest just beginning. Ranges very dry and extreme fire danger present.

ILLINOIS: Temperatures 1 to 4° above normal. Precipitation 1.00 to 2.00 in. north and south, 0.35 in. most central areas.

Corn condition 35% excellent, 63% good, and 2% fair; 93% dough, 99% 1980 and 95% average; 56% dented, 82% 1980 and 71% average; 7% mature, 37% 1980 and 30% average. Soybeans 94% setting pods, 98% 1980, 97% average; 8% turning yellow, 23% 1980, 20% average; condition 15% excellent, 77% good, 8% fair. Alfalfa condition 26% excellent, 64% good, 10% fair; third cutting 71% complete, 62% 1980, 61% average. Pastures 31% excellent, 65% good, 4% fair. Soil moisture 4% short, 60% adequate, 36% surplus. Fieldwork: 3.8 days suitable.

INDIANA: Wet and warm week. Temperatures averaged 5° above normal and ranged from 53 to 89°. Heavy thunderstorms from Lafayette, Linden, Frankford and central areas with 24-hour amounts exceeding 4.00 in. Rainfall for week totaled over 8.00 in. at Linden and Lafayette. Elsewhere 0.50 southeast, 1.50 southwest, 1.40 northeast, and 2.20 northwest. Growing degree days much above normal.

Fieldwork average 5.0 days. Topsoil and subsoil moisture adequate. Corn and soybeans condition fair to good. Corn 4% mature, 1980 8%, average 10%. Corn 25% dent, 1980 60%, average 50%. Corn 75% in dough, 1980 95%, average 95%. Soybeans 85% setting pods, 1980 98%, average 94%. Soybeans 5% turning yellow, 1980 15%, average

20%. Wheat land 25% plowed, 1980 25%, average 35%. Silos 5% filled, 1980 15%, average 15%.

IOWA: Very wet week in most areas while temperatures ranged from near normal in the west to 3° above normal in the east. Rainfall was generally over 1.00 in. in most areas with some locally very heavy rainfall at some points.

Topsoil moisture: 4% short, 68% adequate, 28% surplus. Subsoil moisture: 20% short, 67% adequate, 13% surplus. Corn in or past dough stage: 85%, 1980 92%, normal 92%. Corn in or past dent stage: 49%, 1980 65%, normal 64%. Corn acreage mature: 5%, 1980 8%, normal 14%. Soybeans with leaves turning: 14%, 1980 23%, normal 28%. Third cut alfalfa hay harvested: 63% complete, 1980 65%, normal 59%. Fieldwork: 3.1 days suitable. Crop conditions: Soybeans, corn, pasture, and hay mostly good to excellent. Livestock reported to be in mostly good condition.

KANSAS: Precipitation variable, averaged from less than 0.25 in. central and south central to over 1.00 in. southeast. Temperatures averaged 73° north central and 75 to 78° elsewhere; 2° below normal north central and around normal to 4° above normal elsewhere.

Row crop condition excellent, soil moisture mostly adequate. Corn dough 90%, last year and average 90%. Corn dent 50%, 1980 60%, average 55%. Corn mature 20%, last year 30%, average 25%. Sorghum headed 90%, last year 80%, average 85%. Sorghum colored 20%, 1980 and average 30%. Sorghum mature 1%, last year and average 3%. Natural enemies of greenbug have reduced population most of State, some spraying local hot spots. Soybeans blooming 95%, last year 98%; podding 75%, 1980 85%, average 90%. Principal farm activities wheat seedbed preparation, ensiling corn and sorghum. Five days suitable.

KENTUCKY: Temperatures averaged near seasonal normals. Rainfall averaged from near 1.00 in. west to less than 0.50 in. east.

Farmers averaged 5.4 days in field with cutting and housing tobacco number one activity. Burley 36% cut, 23% last year and 30% average. Size of burley variable, overall crop fair. Rain at end of week beneficial as soil moisture 19% very short, 38% short, 41% adequate and 2% surplus. Corn harvest has begun, 16% of acreage mature compared with 20% last year and 18% average. Only 11% of corn still in milk or earlier stage. Soybeans making satisfactory development. Late beans need additional rainfall. About 68% of soybean acreage podded or podding compared with 90% last year and average of 92%.

LOUISIANA: Rainfall scattered in north, general in south at weekend. Temperatures near normal.

Soil moisture short. Days suitable: 5.9. Corn harvested 68%, 56% 1980, 45% average; condition fair to good. Rice headed 98%, ripe 82%, 80% 1980, 81% average; harvested 72%, 70% 1980, 67% average; condition fair to good. Cotton open bolls 51%, 31% 1980, 16% average. Early harvest beginning; condition fair. Soybeans setting pods 90%, 80% 1980, 88% average; condition fair. Sorghum turning color 88%, 86% 1980, 79% average; ripe 75%, 59% 1980, 45% average; harvested 51%, 24% 1980; condition fair to good. Sugarcane planted 16%, condition good. Vegetables rated fair. Sweetpotatoes harvested 37%, 32% 1980, 26% average; condition fair to good. Pastures rated fair, livestock fair to good.

MARYLAND AND DELAWARE: Maryland: Weather conditions advanced corn development. Corn 90% dough, 70% dent; last year 75% dough, 65% dent. Corn silage, 45% harvested; 30% last year. Soybean crop remains in good condition except in southern counties west of the Bay; 90% bloomed, 65% podded; last year 80% bloom, 60% podded. Third cutting of alfalfa hay 90% complete, equal

to last year. Fourth cutting of alfalfa just beginning. Other hay cutting 60% complete, last year 100%. Tobacco harvest 65%, last year 50%. Cantaloupes 100% harvested. Sweet corn, tomatoes 90%; watermelons 85%. Apples, 30% and peaches 80% picked. Delaware: Corn 90% dough, 70% dented; 1980 85% dough, 70% dented. Corn silage, 5% in silos, zero last year. Soybeans 85% bloomed, 45% podded; last year 60% bloomed, 50% podded. Third cuttings of alfalfa hay 90%, last year 85%. Fourth cutting of alfalfa just beginning. Other hay third cutting 90%, last year 80%. Vegetable crop stages: cantaloupes and potatoes 85%, sweet corn 90%, tomatoes 75%. Apples and peaches were at 15 and 75% respectively.

MICHIGAN: Wet and warm is a good synopsis of this past week's weather. Moderate amounts of rain fell during thunderstorms over the Lower Peninsula. Average rainfall totals of 1.60 to 3.15 in. were reported over the area. The Upper Peninsula averaged only 0.50 in. of rain. Temperatures averaged 1 to 5° above normal.

Rains swept through bringing varying degrees of relief to dry Lower Peninsula. About 5 days suitable for fieldwork. Second cutting of hay complete. Third cutting of hay 25% cut, 20% last year and 24% normal. Leaves have shed on 35% of the dry beans, 35% last year and 32% normal. Close to 5% of the dry beans have been harvested. Soybean leaves turning total 15%, 15% last year and 22% normal. Oat harvest finished. Corn, 20% in the dent stage, 35% a year ago and 39% normal. Summer apple harvest wrapping up this week 90% picked.

MINNESOTA: Temperatures averaged near normal south to 10° above normal north. Extremes: 85° at International Falls and 41° at Ely. Precipitation averaged near normal to 0.80 in. below normal northwest thru northeast, and 1.00 to 2.00 in. above normal elsewhere, but locally 3.00 in. above normal south central. Precipitation totaled less than 1.00 in. northwest thru northeast and 1.00 to 3.00 in. elsewhere and local amounts 3.00 to 4.00 in. mostly south central.

Fieldwork brought to standstill as rain fell most of week. Rains particularly heavy in south central part of State. Large part of State now has surplus moisture. Row crops require good weather in September to mature before frost. Topsoil moisture rated 5% short, 52% adequate, and 43% surplus. Field corn: In dough 67%, 1980 93%, normal 81%; denting: 18% 1980 65%, normal 54%. Soybeans: Turning yellow 9%, 1980 27%, normal 32%. Spring wheat: Combined 93%, 1980 81%, normal 72%.

MISSISSIPPI: Temperatures near normal. Extremes: 62 and 98°. Scattered showers early in week. More widespread later in week but several stations reported little to no rain. Greatest 24-hour rainfall 1.69 in.

Soil moisture very short to short. Days suitable for fieldwork: 6.0. Cotton 64% of acreage with some open bolls, 55% last year, 29% average. Harvest just underway; condition fair to good. Soybeans 90% podding, 89% last year, 82% average; 18% turning, 15% last year; 5% shedding, 4% last year; condition fair to poor. Rice 96% headed, 94% last year, 90% average; 8% harvested, 9% last year, 5% average; condition good. Sorghum 72% ripe, 49% last year; 27% harvested, 13% last year, 16% average. Corn 91% mature, 84% last year; 33% harvested, 19% last year, 12% average; condition fair to good. Hay 86% harvested; sweetpotatoes 10%; peanuts 12%; corn silage 93%; sorghum silage 80%. Pasture condition poor to fair.

MISSOURI: Temperatures were generally below normal. Precipitation fell over most of the State with the heavier amounts falling in the northeast and southern part of the State.

Fieldwork: 3.9 days suitable. Corn 78% dent-

ed, last year 76%, normal 67%. Corn 22% mature, last year 25%, normal 19%. Corn 2% harvested. Grain sorghum 82% headed, last year 88%, normal 90%. Grain sorghum 19% mature, last year 29%, normal 21%. Soybeans 86% blooming, last year 99%, normal 99%. Soybeans 69% setting pods, last year 85%, normal 79%. Soybeans 3% turning color, last year 6%, normal 6%. Alfalfa hay 3rd cutting 79% harvested, last year 87%, normal 74%. Cotton 4% with open bolls, last year 59%, normal 11%. Condition of pasture and corn good to excellent. Condition of soybeans and grain sorghum fair to good. Condition of cotton mostly fair. Topsoil moisture supply mostly adequate.

MONTANA: Very warm and dry. Record temperatures noted over much of the western division early in week. Temperatures ranged from 3° above normal in southeast to 10 to 12° above normal in west, southwest and north central. Little or no precipitation. Highest 101° Thompson Falls. Lowest 31° Wisdom.

Moisture supplies short to adequate. Fieldwork: 7 days suitable. Small grains harvested in percent compared with last year and normal; winter wheat 95, 75, 85; spring wheat 65, 45, 55; barley 65, 50, 60; oats 70, 50, 60. Planting winter wheat just starting. Second cutting alfalfa harvested 75%, normal 70%. Hay and forage supplies for winter feeding short to adequate eastern third, surplus elsewhere. Sugarbeet condition good to excellent. Corn condition good, dry beans fair to good.

NEBRASKA: Precipitation: heaviest accumulations of 2.00 in. or more in east central and southeastern areas. Light amounts of 0.50 in. common across northern third and southwest. Temperatures: above normal over Panhandle and north central; other areas averaging 1° below normal.

Corn mostly good to excellent; dough 80%, 95% last year and normal; denting 35%, 60% last year and normal; denting progress 1 week behind normal; mature 2%, 7% last year and 8% normal. Soybeans mostly good to excellent; less than 10% turning color, 20% last year and normal. Sorghum mostly good; coloring 35%, 60% last year and 45% normal; ripe 1%, 4% last year, 2% normal. Third cutting of alfalfa less than 75%, 80% last year and 75% normal. Pasture and range feed supplies mostly adequate. Livestock grains good. Topsoil moisture mostly adequate. Subsoil moisture adequate. Subsoil moisture supplies best since 1972 for the date. Days suitable for fieldwork: 3.3.

NEVADA: Southerly winds brought record warm temperatures east and south. Temperatures averaged 5 to 10° above seasonal normals. Extremes: 109 and 35°. Thunderstorm activity light and confined to east.

Second cuttings alfalfa full swing northern two-thirds State. Garlic harvest about completed main producing area. Ranges still extremely dry.

NEW ENGLAND: Temperatures: averaged a little below normal. Precipitation: rather dry week, only significant rainfall occurred on 24th in northern areas and on Cape Cod. Totals averaged about 0.25 in. or less.

Fieldwork: 5.7 days favorable. Soil moisture: South, short; north, adequate to surplus. Hay harvested: Second crop, 70%; third crop, 27%. Potatoes: Vine killing, seed harvest started. Oats harvested: 30%. Apples: Early varieties being harvested, sizing well, short crop. Vegetables: Harvesting, good quality. Cranberries: Sizing, coloring, good prospects. Blueberries: Harvest virtually complete, yields variable. Sweet corn: 71% harvested. Good conditions: Corn, oats, potato, vegetables, cranberries. Fair condition: Apples. Grazing adequate.

NEW JERSEY: Temperatures averaged 1 to 3° below normal. Extremes 50° at Cape May Court House on 25th and Long Valley on 26th, 89° at Pomona on 24th. Rainfall averaged 0.31 in. north, 0.33 in. central and 0.11 in. south. Heaviest 24 hour total 1.80 in. at Mount Holly on 30th. Estimated soil moisture, in percent of field capacity averaged: 56 north, 38 central and 50 south. Four inch soil temperature averaged: 71 north, 72 central and 73 south.

Fieldwork: 6.5 days suitable. Some scattered showers received. Many areas need a good soaking rain. Irrigating of late season crops continues. Fall vegetables need rain. Cool weather slowing late tomato ripening. Peach movement continues good. Harvest of Red Delicious apples begun in South. Corn silage making begun. Third cutting of hay continues. Pasture growth limited.

NEW MEXICO: Temperatures averaged a few degrees warmer than normal. Rainfall totals were generally less than an inch.

Soil moisture in adequate supply in most areas. The main activities included irrigating, hay harvest, land preparation and winter wheat seeding. Cotton in good condition in all producing areas. Development slightly ahead of normal. Some insect problems noted in the Roswell area. Alfalfa in good condition. Weather has been conducive for hay harvest. Some harvested hay overripe or rained on. Market activity slow. Grain sorghum in good condition with 98% headed and much in the dough stage. Some acreage in the south beginning to turn color. Corn in good condition and silage harvest continuing. Winter wheat seeding increasing. Green chile picking remained active. Some blight showing up in the dry beans in the Deming area. Ranges in fair to good condition. Tank water in adequate supply in most areas. Cattle and sheep in good condition. Death losses about normal.

NEW YORK: Near normal temperatures and dry during week.

Oat combining 85% complete, 76% in 1980, 88% average. Wheat harvest complete with few exceptions. Second cutting alfalfa 90% in, 83% 1980, 91% average. Third cutting alfalfa 37% harvested, 31% in 1980, 33% average. Corn crop reported good to excellent. Potato harvest continues on Long Island, underway Upstate. Early apple, peach and pear harvest continues. Summer vegetable harvest continues in volume.

NORTH CAROLINA: Temperatures: 1 to 3° below normal in the east to near normal in the west. Precipitation: very light Statewide to 1.70 in. at Burgaw.

Fieldwork: 5.6 days suitable. Soil moisture: 11% very short, 28% short, 49% adequate, 12% surplus. Conditions: Pasture fair to mostly good; field tobacco mostly good; corn fair to mostly good; cotton, peanuts, and soybeans mostly good; hay fair to mostly good; sweet-potatoes fair to mostly good; apples fair to mostly good; grain sorghum mostly good. Harvest: sweetpotatoes 5%, 1980 10%, 10% average; flue-cured tobacco 79%, 1980 70%, 73% average; burley tobacco 19%, 1980 18%; corn for grain 13%, 1980 16%; corn for silage 50%, 1980 57%, apples 23%, 1980 17%, 21% average; peaches 98%, 1980 95%, 99% average; hay 81%, 1980 76%, 80% average. Phenological stages: Cotton setting bolls 99%, 1980 100%; cotton open boll 36%, 1980 35%; corn dough stage 99%, 1980 99%; corn dent stage 93%, 1980 93%; corn matured 75%, 1980 74%; soybeans blooming 91%, 1980 88%; soybeans setting pods 73%, 1980 63%.

NORTH DAKOTA: Moderate to heavy rains early in week in eastern third. Ashley received 2.42 in., Edmore 1.89 and Lamoure recorded 1.25 in.

Western third well below normal precipitation, central near normal. Temperatures averaged 1 to 6° above normal northwest. Extremes: 98° northwest to 44° southeast.

Small grain harvest remained 10 to 12 days ahead of normal despite some delays due to showers and high humidity. An average of 5.8 days were suitable for fieldwork. Wet weather caused some durum sprouting and grain bleaching in north. One to two weeks of harvest remain there. Percent combined with last year and average; hard red spring wheat 84, 57, 62; durum 75, 34, 45; barley 92, 62, 79; oats 87, 72, 75; flax 11, 20, 20. Row crops still mostly good to very good. The seasonal blackbird problems continue in sunflower. Dry bean and potato harvest expected to become active this week. Sunflower and corn development near normal. For sunflower, 22% with bracts yellow or beyond, 42% hay flowers dried, 35% in bloom, 1% not bloom. Averages for same categories: 22, 44, 32, 2.

OHIO: Temperatures averaged 3 to 5° above normal. Growing degree days also averaged above seasonal levels; weekly sums from 130 in the far northeast to about 250 in the extreme south. This helped development of delayed corn and soybean crops. Rainfall totals were highly variable. Most sections of the State relatively dry until a strong storm system moved into the Ohio Valley over the weekend. Northwestern sections were hardest hit with some totals over 6.00 in. Two to 3.00 in. totals were not uncommon in the northwest. Most areas, just over 1.00 in. The northeast and southeast received 0.25 to 0.50 in. Central and southwestern areas 0.50 to 1.50 in. Corn in dough or beyond 85%, 95% 1980, 90% average. Corn dented or beyond 35%, 50% 1980, 50% average. Soybeans, pods set 45%, 85% 1980, 75% average. Soybeans, leaves turning 5%, 10% 1980, 10% average. Corn silage harvest 5%, 10% 1980, 10% average. Alfalfa, 3rd cut 40%, 30% 1980, 40% average. Tobacco cut 15%, 15% 1980, 20% average. Days favorable 7. Pasture condition fair. Soil moisture 97% short, 3% adequate.

Corn and soybeans rated fair. Most areas were dry before 29th to 30th rains, and moisture stress showed in some areas. Topsoil moisture recharged in some areas; some standing water in the northwest. Entire period suitable for fieldwork with haying and harvest of fruit and vegetable crops most active. Corn silage making started. Mexican bean beetles on soybeans have not caused as much damage as had been anticipated.

OKLAHOMA: Rainfall ranged from 0.09 in. Panhandle to 1.60 in. east central. Temperatures averaged 2° below normal east central to 2° above normal west central.

Scattered rains brought temporary relief to some dry areas. Wheat seedbed prepared: 60%, 30% 1980, 45% average. Sorghum heading: 98%, 85% 1980, 94% average. Sorghum milk to dough: 75%, 50% 1980, 60% average. Sorghum mature: 25%, 15% 1980, 15% average. Cotton setting bolls: 95%, 80% 1980, 92% average. Cotton open bolls: 1%, 10% 1980, 1% average. Days suitable fieldwork: 5.8.

OREGON: Weather continued warm and dry.

Winter wheat 94% harvested, 92% last year. Seedbed preparation for fall seedings underway. Grass seed harvest nearly complete in southwest while red clover and bentgrass harvest still active in northwest. Mint harvest continues. Hop harvest underway. Sugarbeet seeds being harvested. Dry haying continuing. Bartlett pear harvest in full swing. Fresh packing underway in Hood River. Peach harvest continuing. Prune harvest underway in west. Blueberry harvest tapering off and harvest of late season blackberries continuing. Cranberries turning

red. Filbert orchards being prepared for harvest. Potato and onion harvest coming along well. Sweet corn harvest begun. Harvesting of the fresh market vegetables continues. Livestock condition good. Pastures fair. Fire danger continues high.

PENNSYLVANIA: After cool first half, temperatures moderated to near normal levels. Lows mostly 50's and 60's and highs 70's and 80's. Extremes: 38 and 88°. Despite showers and thunderstorms beginning and end of period, this was the 5th consecutive drier than normal week for major sections of State. Rainfall 0.25 or less southeast, north central and parts of northwest to 1.50 in. south central and up to 3.60 in. at Slippery Rock.

Six days suitable. Soil moisture mostly short. Activities: Baling straw; filling silo; spraying potatoes; plowing; and harvesting oats, potatoes, tomatoes, carrots, sweet corn, cantaloupes, peaches, apples, tobacco, ensilage corn, hay and green chop. Harvesting of oats virtually complete, last year 93%. Tobacco 37% harvested, last year 28%. Potato harvest 30% complete, last year 33%. Ensilage corn 6% harvested, last year 14%. Corn 84% in dough and 37% in dent; last year 76% in dough and 27% in dent; average 76% in dough and 24% in dent. Fall plowing 33% complete, last year 32%. Alfalfa second cutting virtually complete, last year 90%. Third cutting alfalfa 53% complete, last year 52%. Second cutting Clo-tim 82% complete, last year 92%. Hay quality mostly good. Feed from pasture below average to average.

PUERTO RICO: Island average rainfall 1.14 in. or 0.62 in. below normal. Temperatures averaged 83 to 82° on Coasts and 80 to 79° Interior Divisions. Extremes: 97 and 61°.

SOUTH CAROLINA: Cooler than usual; near normal temperatures latter part. No rainfall in the northwestern part. Central and eastern portions received light amounts in form of scattered showers. Very dry in Piedmont, wet along East Coast.

Soil moisture averaged short to adequate. Five days available for fieldwork. Corn fair to good; 91% mature, 91 last year; 89 average; 34% harvested, 42 last year, 40 average. Lower bolls beginning to rot in wet areas. Soybeans good condition; insect and weed pressures high in some areas, 92% blooming, 94 last year, 92 average; 68% setting pods, 70 a year ago, 72 average. Tobacco harvest slowing down due to wet fields; 88% harvested, 84 last year, 91 average. Peanuts fair to good, harvest not yet started. Apple condition fair to good. Record production expected but dry conditions limiting size, 20% harvested, 23 last year, 36 average. Fall cucumbers 82% planted, 81 year ago. Fall snap beans 60% planted, 79 last year; 1% harvested, compared to 10% year ago. Pastures and sorghums looking good, armyworm attack limited to isolated areas. Cotton fair to good; 22% open bolls, 62 year ago, 34 average.

SOUTH DAKOTA: Precipitation light in west, heavier eastern fourth. Most areas received under 1.00 in. Few locations up to 5.00 in. Temperatures near normal. Extremes: 100 and 32°.

Topsoil moisture adequate from northeast corner to southwest corner, and in southeast and east central, short elsewhere. Subsoil moisture critically short in parts of central and east central districts. Adequate western portion of central and major parts of south central, southwest and northwest, short elsewhere. Four days suitable. Row crop conditions: Corn 83%, soybeans 88%, sorghum 93%, sunflowers 90% of normal. Range and pasture condition 72%. Soybeans setting pods 91%, 1980 100%, average 99%. Soybeans shedding leaves 8%, 1980 12%, average 8%. Corn dough 67%, 1980 76%, average 81%. Corn dented 32%, 1980 42%, aver-

age 45%. Corn mature 6%, 1980 7%, average 8%. Sorghum headed 91%, 1980 87%, average 92%. Sorghum showing color 37%, 1980 35%, average 37%. Sunflowers blooming or beyond 92%, 1980 97%, average 94%. Sunflowers mature 10%, 1980 3%, average 3%.

TENNESSEE: High pressure dominated most of the week. A cold front moved across during midweek. Temperatures averaged 3° above normal in the west and near normal in the middle and east. Precipitation amounts ranged from none in the extreme northeast to over 3.00 in. in the south central area.

Fieldwork: 5.2 days suitable. Soil moisture adequate. Soybeans setting pods 82%, 1980 90%, average 75%. Cotton open bolls 22%, 1980 16%, average 8%. Bollworm population at a treatable level and spraying continues. Corn in dent stage 94%, 1980 90%, average 66%. Corn mature 39%, 1980 37%, average 27%. Corn harvested 5%, 1980 4%, average 2%. Silage harvest continues. Burley tobacco 89% topped. Burley tobacco harvest 56%, 1980 32%, average 33%. Dark-fired harvest 64%, 1980 27%, average 32%. Air-cured harvest 71%, 1980 26%, average 36%. Pastures in fair condition. Livestock still in good condition. Lespedeza hay harvest 60%, 1980 59%, average 51%. Apple harvest continues. Most gardens have been harvested but tomato harvest continues.

TEXAS: Weather: Cold front moved into State first part week then dissipated. Scattered thunderstorms noted along this front. Over weekend a tropical depression caused widespread areas of heavy rain over southeast part of State. Temperatures were near normal. Rainfall was 0.25 in. below normal in West Texas, near normal North Central Texas and Edwards Plateau. Then 1.00 to 2.00 in. above normal through rest of State.

Crops: Harvest of most crops making good progress, land preparation for planting of small grains continued until showers interrupted most activity. Cotton harvest neared completion in Rio Grande Valley and progressed well Coastal Bend before showers interrupted progress. Defoliation getting underway South Central Texas, Blacklands. On High, Low Plains warm open weather more beneficial than light scattered showers which brought cloud cover, cool night temperatures. Statewide, cotton reported 15% excellent; 68% good; 17% fair. Sorghum harvest continued until interrupted by rain. Harvest underway on Low Plains and Edwards Plateau, nearing completion in Blacklands and southern areas. Some insects encountered on late planted sorghum Southern Texas. Reported condition Statewide 23% excellent; 67% good; 10% fair. Corn harvest continued to advance across State with few fields being harvested on High Plains. Most fields on High Plains need more drying before active harvest. Conditions across State were reported 35% excellent; 54% good; 11% fair. Rainfall was helpful for soybeans along Coast, High Plains. Rice harvest neared completion. Moisture benefitted peanuts Edwards Plateau, Cross-Timbers, however more moisture needed. Land preparation for wheat, oats, other small grains active. Cotton setting bolls 99%, 100% 1980. Cotton open bolls 22%, 27% 1980. Cotton harvested 9%, 13% 1980, 11% average. Rice turning color 98%, 100% 1980. Rice harvested 97%, 100% 1980, 96% average. Sorghum headed 96%, 100% 1980. Sorghum turning color 75%, 78% 1980. Sorghum mature 67%, 70% 1980. Sorghum harvested for grain 65%, 69% 1980, 61% average. Corn for grain harvested 38%, 42% 1980, 31% average. Peanuts harvested 8%, 4% 1980, 11% average.

Commercial vegetables: Rio Grande Valley, tomato, cucumber, carrot planting active; transplanting of cauliflower began. Good growth early planted fall crops. Citrus condition good, fruit sizing well. San Antonio-Winter Garden area, fall planting wrapping up. Irrigation begun. Early planted fields progressing well. East Texas, watermelon

harvest virtually complete, late melons small, supplies limited. Sweetpotato harvest under way, some fields showing effects of excess moisture. Trans-Pecos region, cantaloup harvest nearing completion, chili peppers, onions available. Bell peppers showing good growth. High Plains, onion, potato harvest wrapping up, tomatoes, peppers, cucumbers, cabbage progressing well. Peach harvest continued Panhandle, North Texas. Fruit set heavy, some droppage. Pecans continue to harden, mature. Weevils becoming problem, spraying active.

Range and livestock: Range, pasture condition continued to improve. Grasses responding to recent rains. Plains, grazing improved significantly. Throughout State grazing improved, more moisture needed to sustain growth, provide grazing for fall. Livestock generally good condition. Insect problems minor, spraying active.

UTAH: Recurring periods scattered and thunderstorm activity. Accumulated amounts moisture generally light to moderate. Temperature averages ranged from between 2 to 10° above normal. Pan evaporation ranged from 1.38 in. to 2.41 in. for period.

Fieldwork possible: 6.4 days with interruptions from scattered showers. Small grains mostly harvested. Winter wheat about 20% seeded, well ahead of last year. Third crop alfalfa 40% cut, alfalfa seed harvest begun. Crop prospects rate only fair. Peach and pear harvest active. Dry bean and onion harvest will begin about September 1.

VIRGINIA: Mild temperatures prevailed with average temperature near 70°, several degrees below normal. Extremes ranged from the low 90's to the mid 40's. Rainfall was very light, occurring on 29th and 30th, averaging less than 0.25 in.

Areas in and west of the mountains becoming dry. Pastures in those areas in poor to good condition, wells and springs becoming dry. The James River flow is at its lowest level in 11 years. Topsoil moisture rated 66% short, 34% adequate. Days suitable for fieldwork: 5.8. Corn in good to excellent condition, silage cutting active, 29% of corn for grain harvested, 19% 1980; 97% dough, 82% 1980; 86% dent, 53% 1980; 36% mature, 37% 1980. Soybeans in good condition. Medium and early varieties with good pod set and filling, later varieties with good bloom at Tidewater Experiment Station. Peanuts in good to excellent condition. Tobacco in good to excellent condition and harvest and marketing very active. Flue-cured 55% cropped, 36% 1980, 40% average. Fire-cured 53% harvested, 17% 1980, 28% average. Burley 33% cut, 13% 1980, 15% average. Sun-cured tobacco 40% cut, 12% 1980, 24% average. Apples 13% picked, 5% 1980, 7% average.

WASHINGTON: West: Temperatures cooled. Precipitation below normal. Vegetable harvest continued, including lettuce, green peas, sweet corn, carrots, cucumbers. Green pea harvest well along. Spinach, cabbage seeds being harvested. Some moisture stress in dryland pasture.

East: Temperatures cooler. No significant precipitation. Picking of Bartlett pears, peaches,

plums, prunes continues. Apples, D'anjou pears still to come. Potato harvest continues. Also harvesting sweet corn, tomatoes. Mint harvest nearing completion. Hop harvest under way. Alfalfa in second cutting. Wheat harvest nearing completion with good yields. Barley also well along, some fields yielded poorly due to yellow dwarf virus. Dry pea, lentil harvests in later stages.

WEST VIRGINIA: Temperatures 3° above normal. High 92°, low 35°. Precipitation well below normal. High 0.85 in., 0 at most stations.

Soil moisture short to very short. Main activity, hay harvesting. Oats good to fair, 95% harvested, 93% in 1980. Corn fair to good, 97% pre-silked, 97% silked, 52% dough stage. Hay fair to good, 2nd cutting 72% complete, 67% in 1980. Tobacco fair, 79% topped, 16% harvested; 85% and 30% in 1980. Pastures fair. Gardens fair to good. Potatoes fair to good, 48% harvested, 44% in 1980. Fruit poor to fair. Lack of moisture rapidly becoming a problem.

WISCONSIN: A cool moist week as showers fell each day. Temperatures averaged about normal with highs mostly in the 80's and lows in the 50's. High temperature was 86° which was reported in Lacrosse on 24th while the low of 50° was reported in Superior on 22nd. Rainfall totals were heavy, amounts ranged from 1.00 to 4.00 in.

Fieldwork: 4 days suitable. Weather hampered much of the crop harvesting. The oat harvest 91% complete with virtually all harvesting complete in the southern half of the State. Corn crop progressing and 65% in dough stage or advanced, 80% 1980. Approximately 25% of the corn crop at the dent stage of development, 46% 1980, 33% average. Corn looks very good with only concerns being raised are those of an early frost. Third crop hay harvest progressing in the southern third of the State. Generally pastures in good shape for this time of the year. Tobacco harvest has begun in the southern growing area. Topsoil moisture supplies rated 11% short, 60% adequate and 29% surplus.

WYOMING: Most stations above normal temperatures. Highest temperature 99° Big Horn Drainage; lowest 34° Snake Drainage. Below normal precipitation most stations. Greatest amount 0.86 in., southeastern areas.

Topsoil moisture short 83% State. Average 7 days suitable for fieldwork. Virtually all winter wheat harvested. Winter wheat seeded: 10%; year ago 20%; normal 26%. Spring wheat harvested: 75%; year ago 75%; normal 75%. Oats harvested: 60%; year ago 60%; normal 70%. Barley harvested: 75%; year ago 80%; normal 75%. Dry beans setting pods: 85%; year ago 95%. Dry beans windrowed: 5%; year ago 25%; normal 18%. Corn in dough stage: 55%; year ago 45%; normal 47%. Corn dented: 5%; year ago 20%; normal 28%. Second cutting alfalfa harvested: 70%; year ago 70%; normal 75%. Third cutting started few areas. Other hay harvested: 90%; year ago 90%; normal 91%. Stock water adequate 70% State. Calf-lamb weights about same as last year. Livestock shipment later most areas.

MEDFLY SITUATION REPORT

The Statewide quarantine area now covers 3,249 square miles. Medflies have been found in the Hollister area of San Benito County. A 200 square mile quarantine area was established and the area of the find (9 square miles) was immediately sprayed with malathion.

Fertile flies were found at one location in the Baldwin Park area of Los Angeles. A 105 square mile quarantine area was established around the find. The area was scheduled for spraying on the morning of the 28th.

Fertile flies were found in the city limits of Oakland. This area had not previously been sprayed but was within the original 3 county

quarantine area. A 12 square mile area was sprayed the night of the 27th.

Spraying continues on a weekly basis in Stanislaus County. The outlook for eradication in this area is hopeful. No flies or larva have been found for a week.

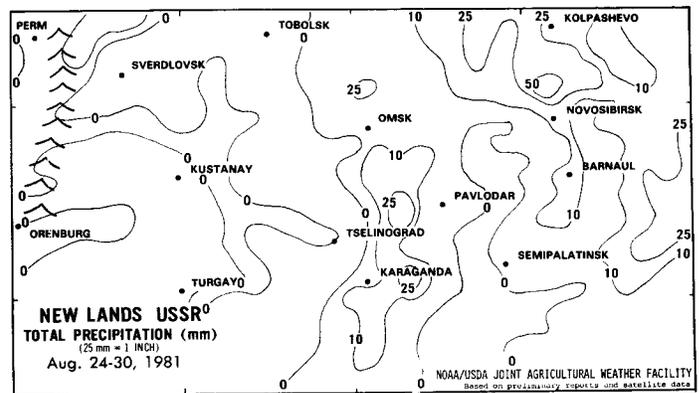
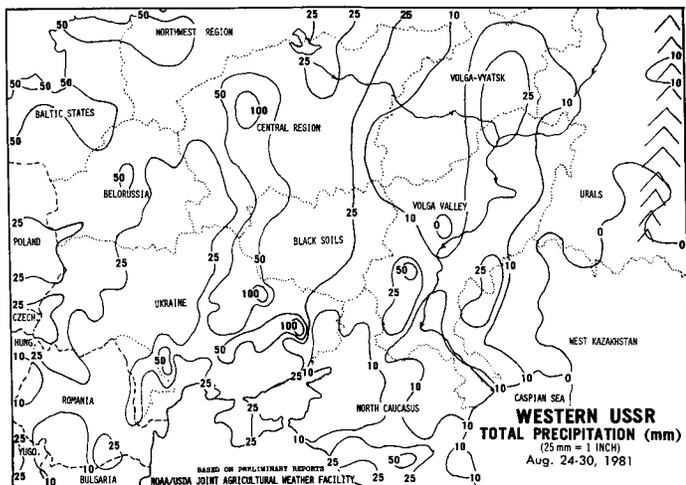
The quarantine area was expanded to include all of Santa Cruz County. Previously only the northern half was quarantined.

A number of suggestions such as increasing the malathion dosage from 2.4 ounces per acre, increasing the size of the minimum spray area (9 square miles) around a find and increasing the size of current spray areas were rejected by the Technical Review Committee.

International Weather and Crop Summary

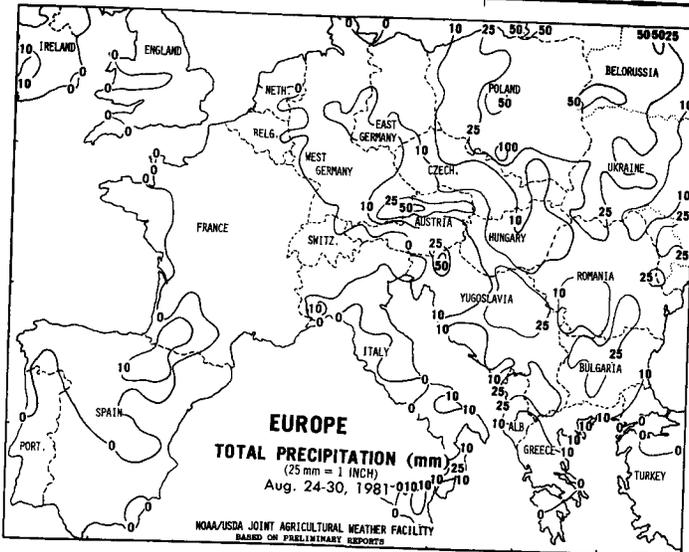
HIGHLIGHTS
August 24-30, 1981

- USSR: Too wet in western and central areas; generally good harvest weather over eastern European USSR and New Lands.
- EUROPE: Continued wet weather in the central and eastern region delayed final winter grain harvest.
- CANADA: Mostly favorable harvest weather.
- MEXICO: Northern citrus continued to be stressed; dry weather aided cotton harvest; corn matured in the southern plateau.
- SOUTH AMERICA: Beneficial showers for wheat in Brazil; dryness persisted in Argentina.
- EASTERN ASIA: Drier weather over central Provinces aided maturing crops; wet weather continued over Sichuan.
- AUSTRALIA: Timely showers in Queensland; mostly dry elsewhere.
- SOUTH ASIA: Dry conditions stressed crops around Rajasthan and central India; conditions were too wet in Assam.
- SOUTHEAST ASIA: Variable rainfall in Thailand; continued wet in southeastern Burma.

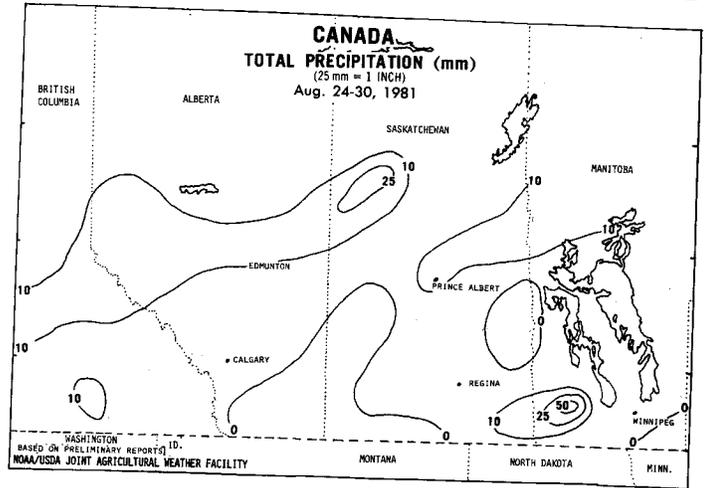


USSR: Wet weather and below-normal temperatures continued over west European USSR. Rainfall totals of 25 mm to 50 mm probably delayed soil preparation and interrupted winter grain sowing at some locations. In central European USSR, locally heavy rains and below-normal temperatures occurred during the week. Many locations had more rainfall

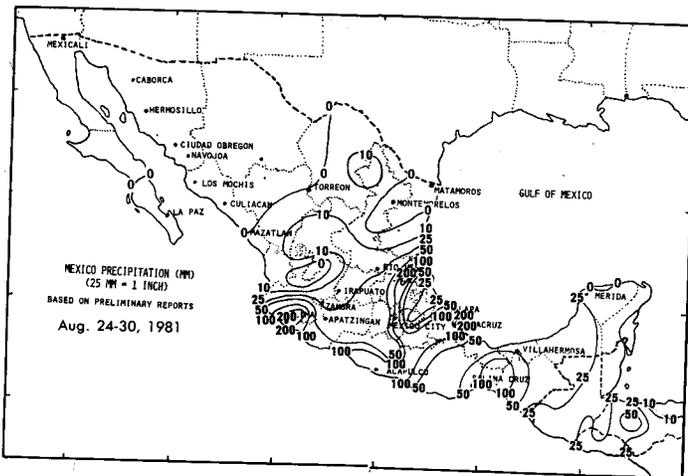
this week than is normal for the entire month of August, producing unfavorable conditions for maturing corn. In the east, above-normal temperatures and modest rains aided spring grain harvesting. Recent reports indicate that the Soviet grain harvest is about 70 percent complete with progress now well ahead of 1980. In the New Lands, widespread rains likely interrupted the spring grain harvest in the east while dry conditions aided progress in the west. Temperatures were generally above normal throughout the week.



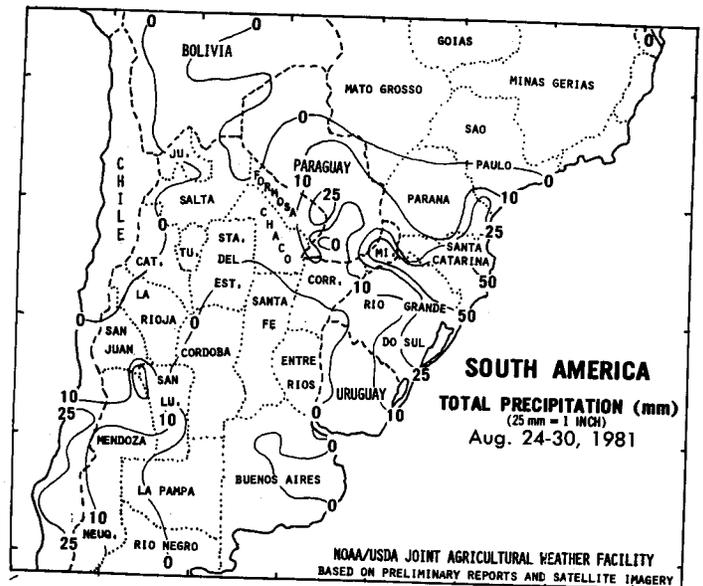
EUROPE: Moderate rains continuing over central Europe likely delayed winter grain harvesting. Reports indicate that 30-40% of West Germany's wheat crop remains unharvested. Dry weather and near-normal temperatures benefited maturing spring grains in England and final winter grain harvesting in France. Above-normal rainfall was followed by below-normal temperatures over eastern Europe later in the week. Final winter grain harvesting efforts were likely delayed and the quality of unharvested grain possibly reduced. However, the moisture should be beneficial to winter grains soon to be sown. In the southeast, rainfall totals around 25 mm were beneficial to maturing corn.



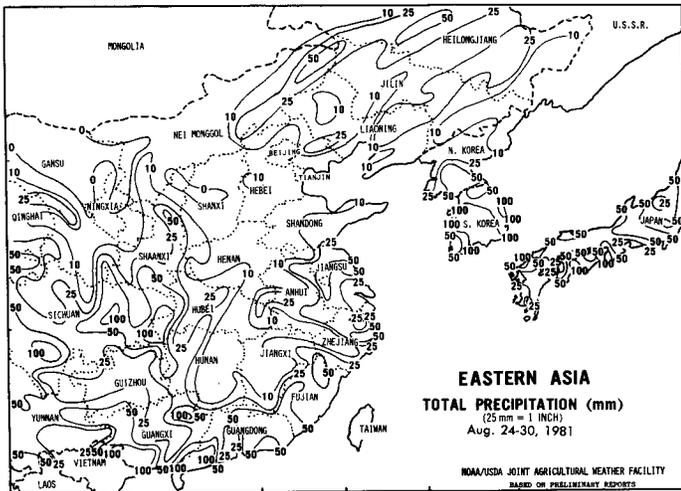
CANADA: Generally favorable weather in most grain areas allowed rapid progress in crop harvests, especially in the western Prairies. Some rain fell but weekly amounts were light except in extreme northern crop areas of Alberta and Saskatchewan and a localized area of southwestern Manitoba. Over 70 percent of Saskatchewan's wheat acreage has been cut. For the Prairies in general, about one-half of the total grain crop has been swathed and over 25 percent grain combined. Humid weather in eastern Saskatchewan and Manitoba has slowed the harvest somewhat in eastern crop areas. Grain quality may be reduced in this area unless more favorable harvest weather allows proper drying of the matured crop.



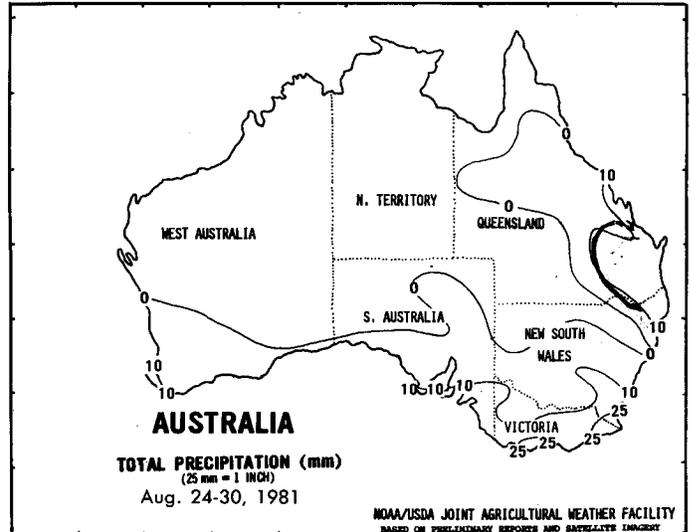
MEXICO: Dry weather continued over northern citrus orchards in eastern Mexico. These persistent dry conditions will likely reduce fruit size in non-irrigated orchards. Wet weather continued over southern citrus areas. Limited precipitation over all northern cotton areas aided harvest work while Northwest watersheds continued dry. Moderate rainfall aided maturing corn in the southern plateau. Heavy rains benefited the sugarcane fields around Veracruz. Yucatan Peninsula corn areas received only light rainfall, but soil moisture remained generally adequate.



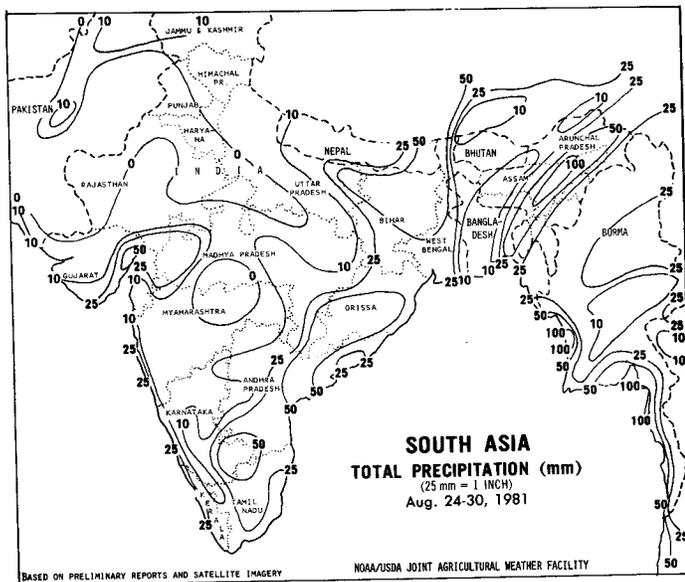
SOUTH AMERICA: Beneficial moisture fell on wheat areas of Brazil, especially in Rio Grande do Sul and Santa Catarina. Light rain also fell in Parana, aiding crop growth. Further north in the major coffee-producing areas, dry weather continued to pose problems for frost-damaged coffee trees. In Argentina, virtually no rain fell in the major wheat areas of Buenos Aires and surrounding Provinces. Temperatures were below average, keeping crop growth at a minimum. Spring rains are needed to provide adequate crop moisture as growth accelerates with warmer weather.



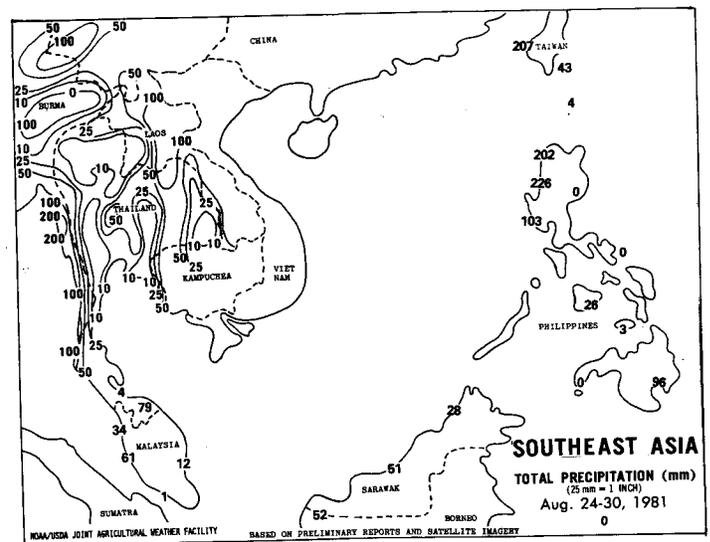
EASTERN ASIA: Continued heavy rains in excess of 100 mm likely hampered flood recovery efforts in the Sichuan Province. Drier weather returning over central China was beneficial to early soybeans and cotton which are normally maturing during this period. The drier weather also aided corn harvesting. Moderate to heavy rains along the south coastal areas produced unfavorable conditions for the harvest of intermediate rice and filling of late-maturing rice. Wet weather in the Manchurian Valley may have delayed the cotton harvest and maintained unfavorably wet conditions for soybean growth. Winter wheat planting will begin soon in Henan, Shandong, and surrounding Provinces. Korea received beneficial rains in excess of 50 mm in the previously dry eastern region.



AUSTRALIA: Mostly dry weather occurred in Australia's major wheat areas. Light showers were confined to southern coastal areas and eastern Queensland. Rainfall in eastern wheat areas was very beneficial to topsoils since mostly dry weather had prevailed earlier in the month. Conditions remain favorable for early vegetative growth in all five wheat-producing States. Spring growth becomes more active during September as temperatures rise. The early maturing crop will enter the critical heading stage of development in northern wheat areas.



SOUTH ASIA: Dry weather returned to north central India during the week. However, soil moisture supplies should be adequate for the growth of rice and groundnuts. Dry weather caused some stress on cotton now entering its normal critical flowering stage in northern India. In spite of modest rains over Gujarat, soil moisture supplies are mostly adequate for cotton and groundnuts. Persistent dry conditions in Rajasthan stressed cotton and rice. Unfavorably dry weather continued over central India. Moderate rains over the south peninsula and east coastal areas aided rice growth. Conditions were too wet over Assam.



SOUTHEAST ASIA: A highly variable rainfall pattern occurred in Thailand. Weekly totals were near or above normal in much of eastern Thailand and below normal in the northern highlands and the Central Plains. Heavy rain fell in southeast coastal areas of Burma, aggravating flooding in rice areas due to prolonged heavy rain. Sugarcane fields in western Thailand benefited from dry weather, however. While cumulative precipitation since the beginning of the wet season remained near the seasonal average in northern crop areas of Thailand, rainfall in most other crop areas lagged behind the seasonal average. The pattern is variable, however, indicating the erratic nature of the monsoon during recent weeks.

