

# WEEKLY WEATHER AND CROP BULLETIN

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

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

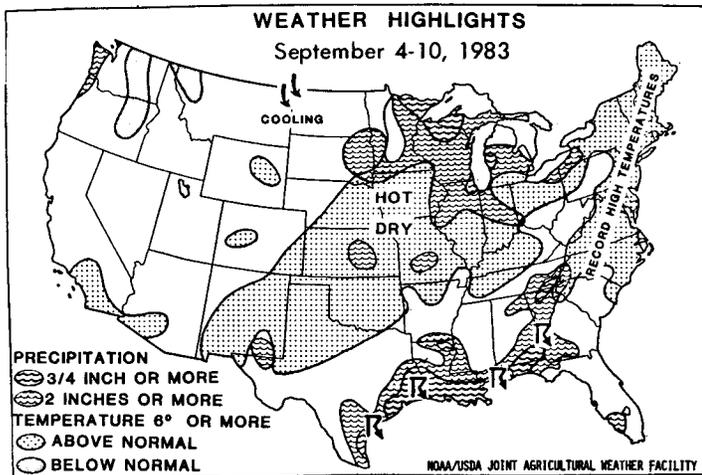
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WASHINGTON, D.C.

Sept. 13, 1983

## National Weather Summary

September 4 to 10



showers and thunderstorms occurred along a line from northeastern Oklahoma through southern Missouri to northeastern Ohio. Moderate to heavy showers and thunderstorms reached from southeastern Texas to northern Georgia. Temperatures were unusually warm from the southern Plains to the lower Ohio Valley and along the east coast from the mid-Atlantic States to southern New England.

WEDNESDAY...Scattered showers and thunderstorms fell from southern Texas northeastward to the central Appalachians. Some much needed precipitation fell in parts of northern Mississippi. Tropical moisture again spread northward through the Rockies and triggered scattered showers from Arizona and New Mexico to Montana. Unusually warm weather spread northward with the tropical flow through the Rockies and into South Dakota.

THURSDAY...Some heavy thunderstorms occurred in southern and southeastern Texas and lighter showers extended northeastward. Isolated moderate showers again fell in northern Mississippi. Showers were scattered in the southern Rockies but none concentrated in the northern part, and began to spread eastward to the Great Lakes. Temperatures cooled in the East but were climbing in the northern Plains.

FRIDAY...A cold front, meandering along the northern tier of States, triggered showers from Montana and Wyoming to Minnesota, across the northern Lakes region, and from New York through New England. Light to moderate showers continued in southeastern (continued on p. 5)

HIGHLIGHTS: Hot weather dominated the area from the central Plains to the east coast. Average temperatures were 7-8° warmer than normal in the eastern end of the Corn Belt and 9-11° warmer in the central and western part. Cooler weather was spreading over the area as the week ended. Little or no rain fell along the east coast where many high temperature records were broken. Rain was moderate in much of the Great Lakes region and extended southward in the central Corn Belt. Showers and thunderstorms covered the gulf coast and reached into the southern Appalachians.

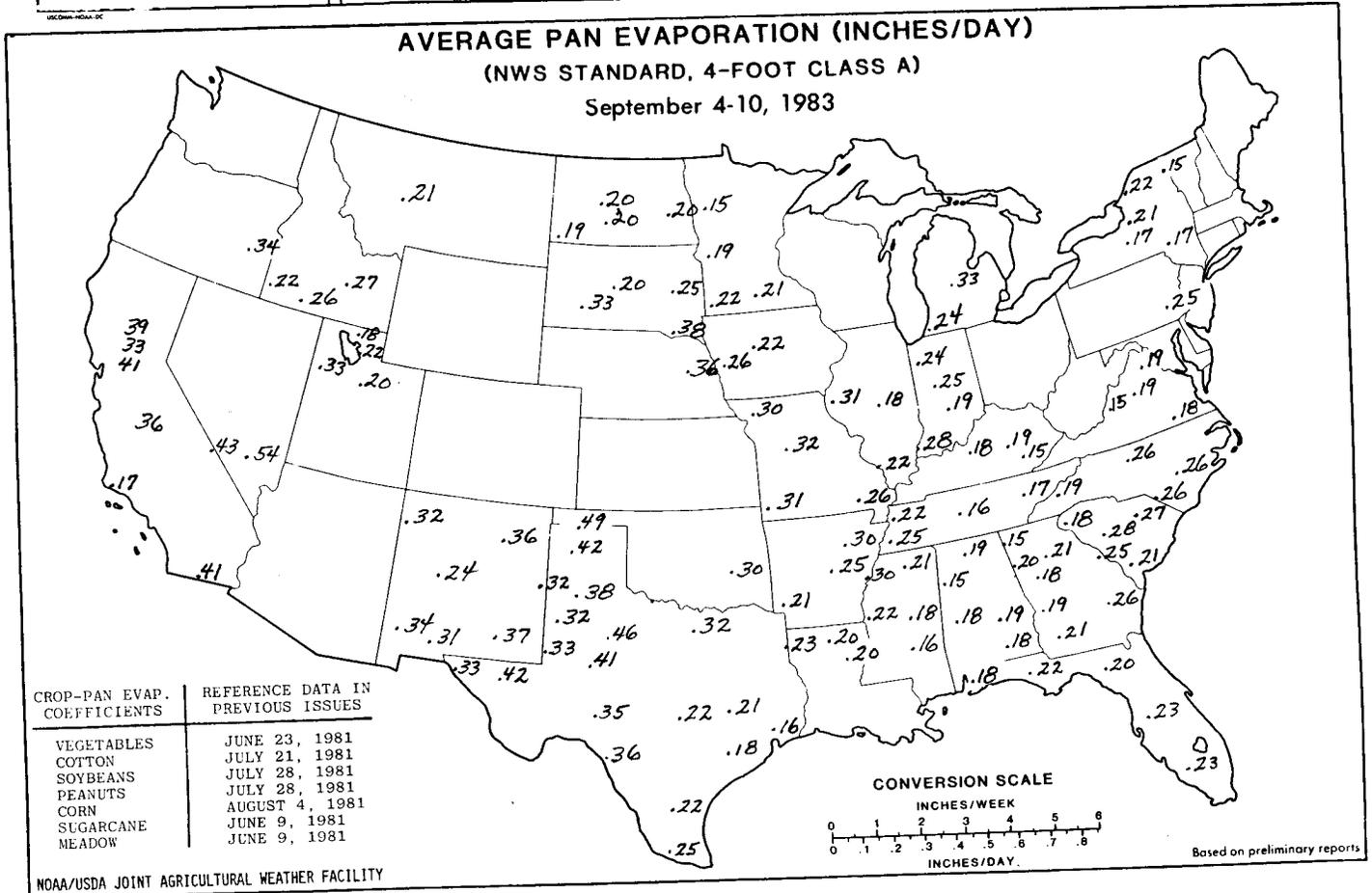
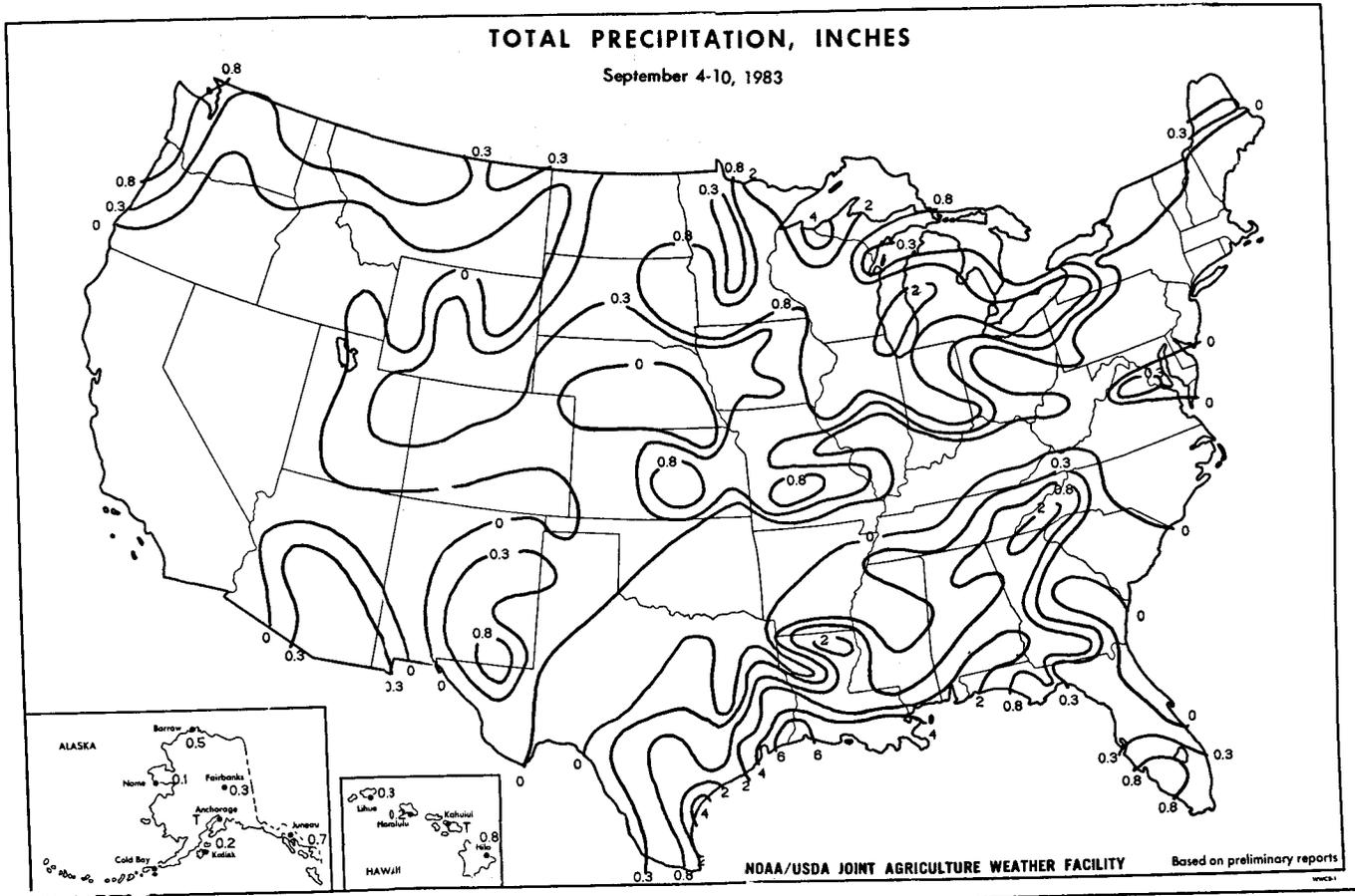
SUNDAY...Light to moderate showers fell in the central and northern Plains and the western Great Lakes region. Isolated heavy thunderstorms dotted this area. Showers and thunderstorms were scattered over the Southeast and through the Appalachians to West Virginia. Very warm weather continued from eastern Nebraska to Indiana and southward but much cooler temperatures covered the northern Plains.

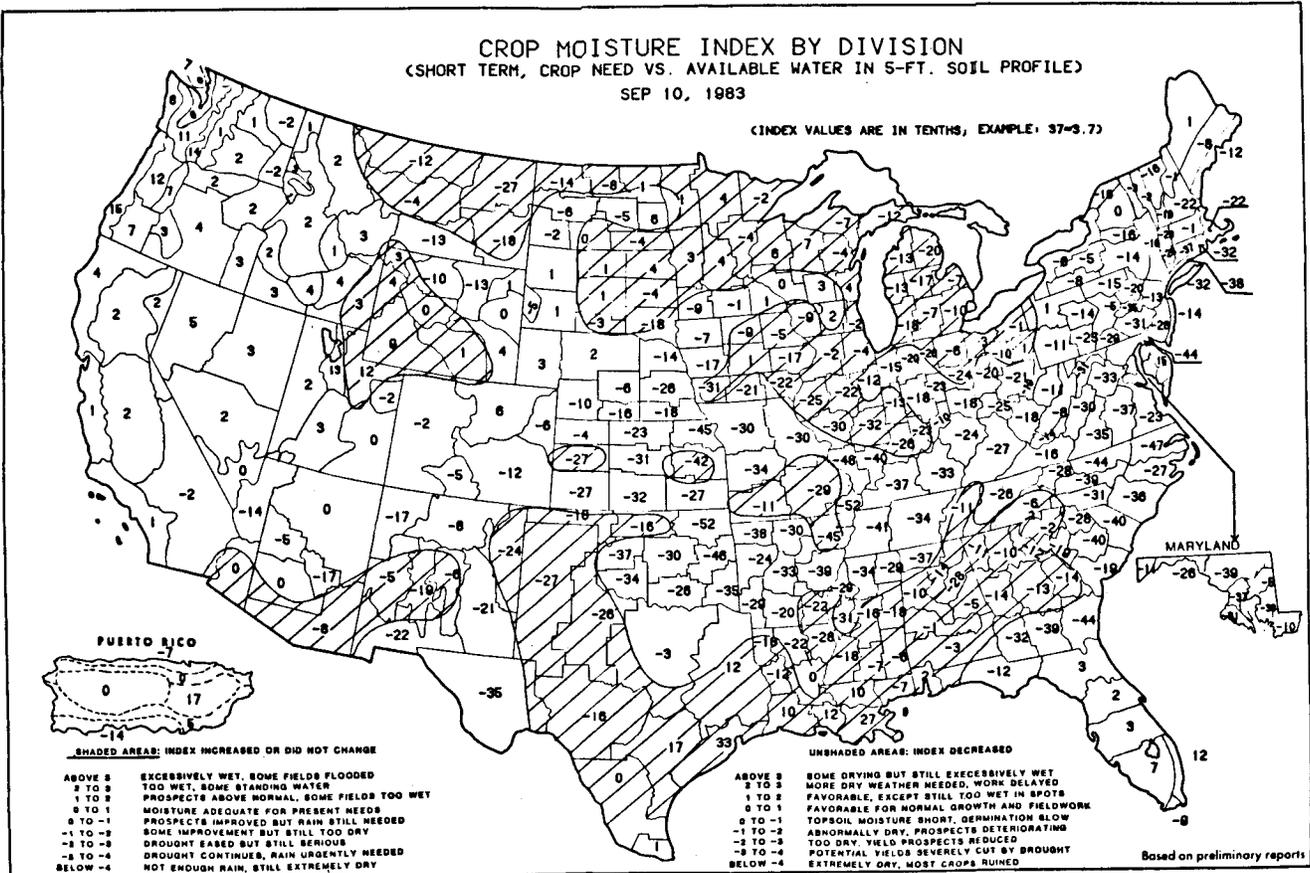
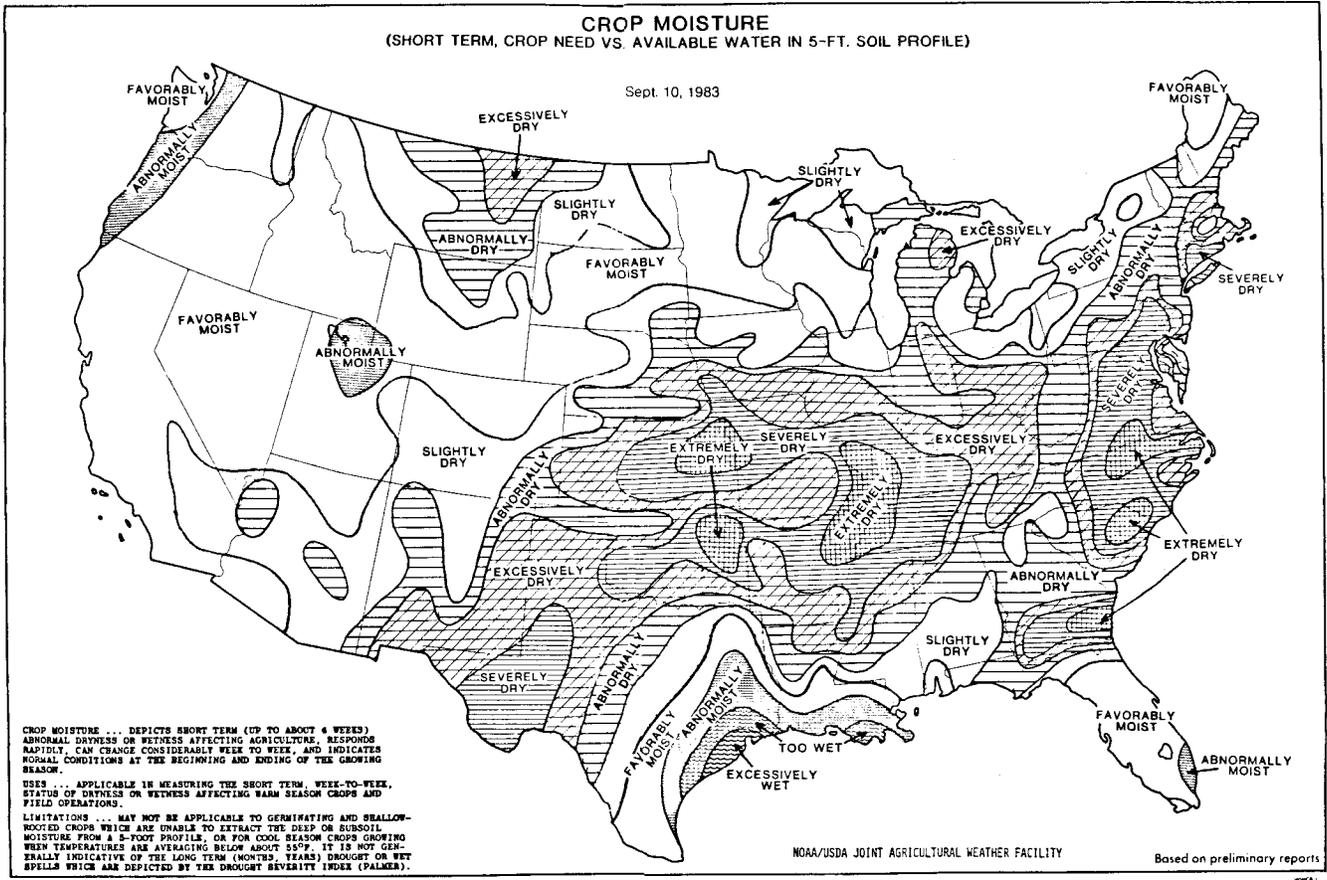
MONDAY...Showers and thunderstorms occurred along and behind a cold front which reached from Canada through Michigan and Indiana to Iowa and into Kansas. Heavy amounts fell from eastern Iowa into Michigan. Showers and thunderstorms also reached from southern Louisiana into the southern Appalachians. High temperatures above 90° continued in the central Corn Belt and record highs were scored along the east coast.

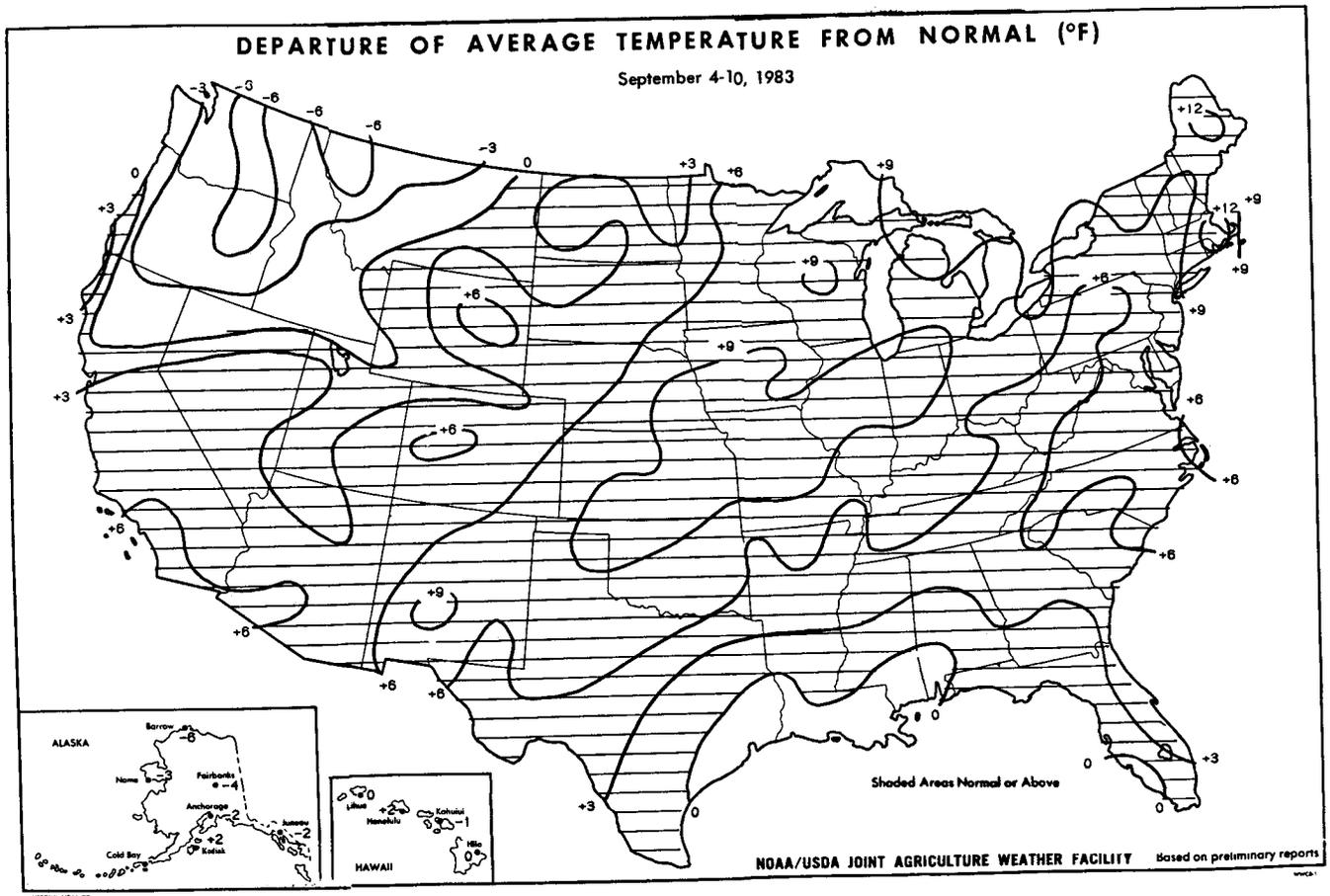
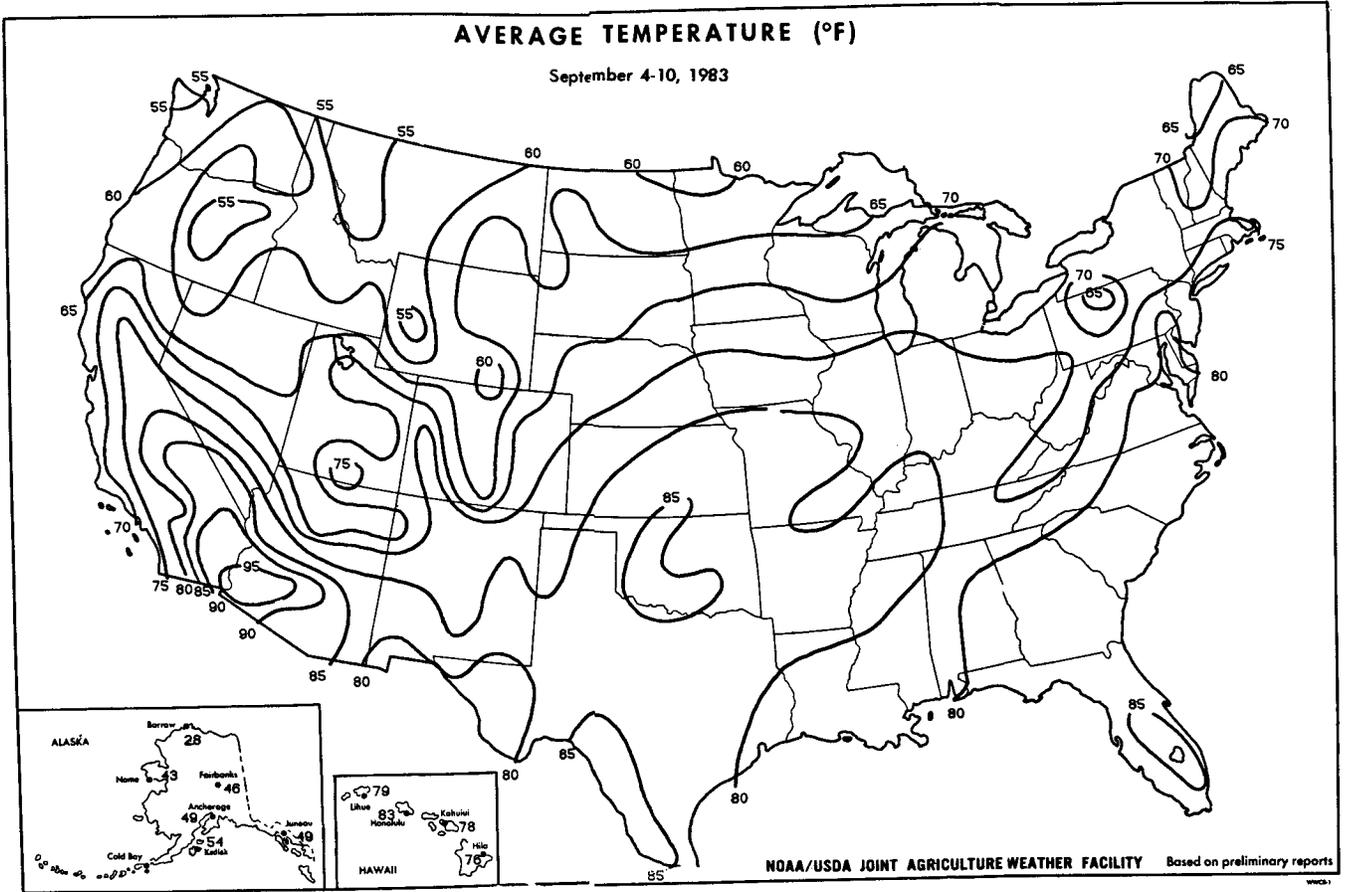
TUESDAY...Light, widely scattered, showers fell from the upper Mississippi Valley, through the Great Lakes into New York. Moderate, isolated heavy,

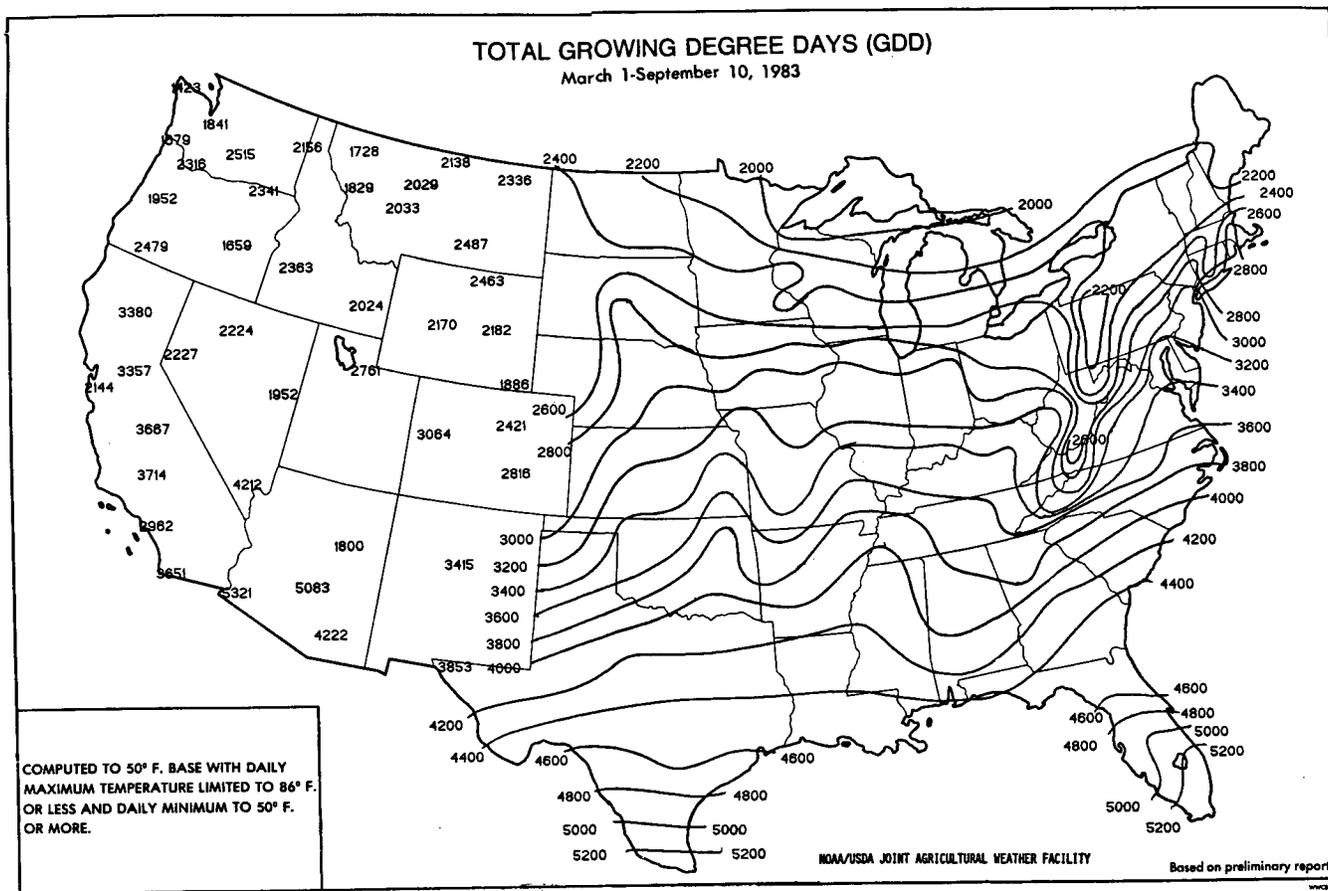
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**National Weather Summary** (continued from front cover)

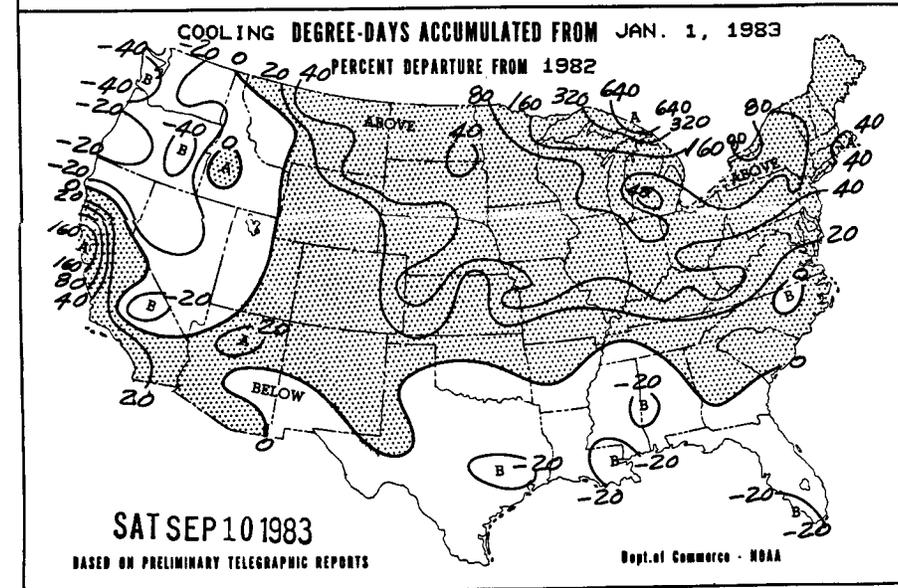
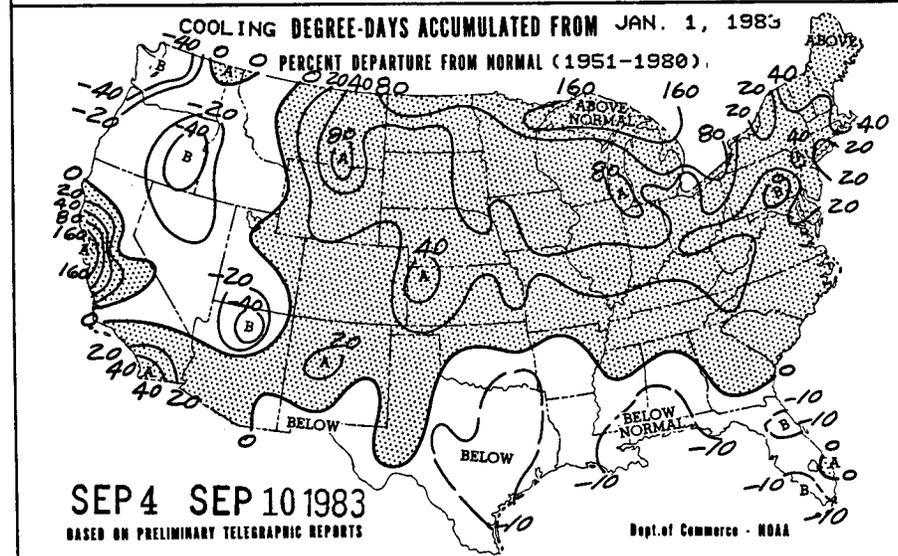
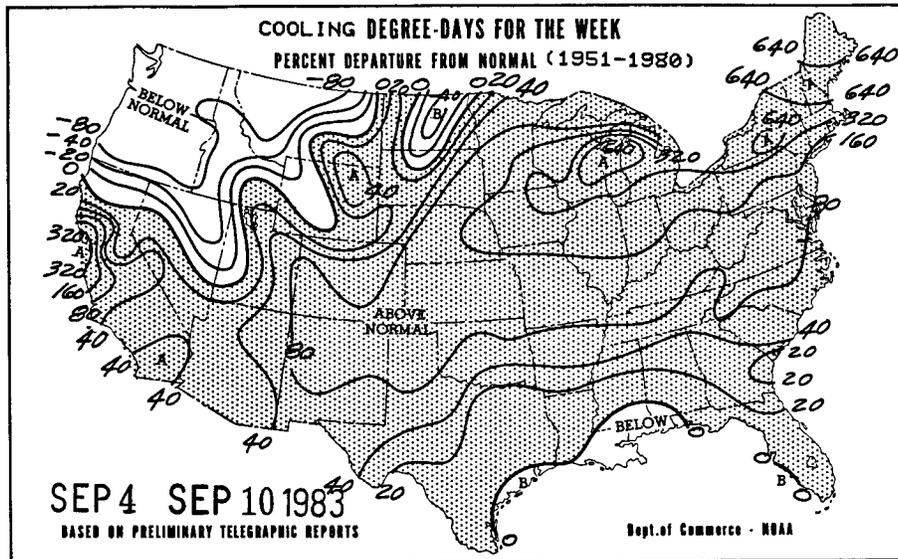
Texas. Temperatures cooled dramatically from Montana eastward but were unusually warm from Nebraska and South Dakota eastward into Ohio.

SATURDAY...Much cooler weather moved into the northern Plains behind a cold front that moved to a line from Michigan, through central Illinois to western Oklahoma. Significant showers fell along the leading edge of the cooler air and lighter showers occurred behind it. Showers and thunderstorms continued in southeastern Texas and spread through Louisiana to southern Mississippi. A few showers fell in the southern Rockies and in the Pacific Northwest.

COOLING DEGREE DAY DATA WEEKLY SUMMARY
CLIMATE ANALYSIS CENTER-NMC-NWS-NOAA
ASSESSMENT AND INFORMATION SERVICES CENTER-NESCIS-NOAA

LAST DATE OF DATA COLLECTION PERIOD IS 9-10-1983
ACCUMULATIONS ARE FROM JANUARY 1
-9999 = normal less than 100 or ratio incalculable

Table with columns: STATE CITY, CALL, WEEK TOTAL, WEEK DEV FROM NORM, WEEK DEV FROM LYR, CUM TOTAL, CUM DEV FROM NORM, CUM DEV FROM LYR, CUM DEV FROM NCRM PRCT, CUM DEV FROM LYR PRCT, STATE CITY, CALL, WEEK TOTAL, WEEK DEV FROM NORM, WEEK DEV FROM LYR, CUM TOTAL, CUM DEV FROM NORM, CUM DEV FROM LYR, CUM DEV FROM NCRM PRCT, CUM DEV FROM LYR PRCT. The table lists data for various states and cities, including Alabama, Alaska, Arizona, California, Colorado, Connecticut, Delaware, Florida, Georgia, Hawaii, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, and Wyoming.



Weather Data for the Week Ending Sept. 10, 1983

STATES AND STATIONS	TEMPERATURE °F							PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE AUG 28	PCT. NORMAL SINCE AUG 28	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	
AL. BIRMINGHAM	90	69	94	68	80	3	1.3	.2	.5	1.4	67	44.6	107	96	52	4	0	4	1	
AL. MOBILE	88	69	92	68	79	-1	1.9	.2	1.2	4.3	130	62.1	122	91	57	2	0	4	1	
AL. MONTGOMERY	93	69	98	67	81	2	1.0	.1	.6	2.0	95	52.4	143	89	49	7	0	2	1	
AK. ANCHORAGE	58	41	61	32	49	-2	T	.5	T	.4	40	7.1	75	80	45	0	1	2	0	
AK. BARRROW	33	24	36	20	28	-6	.5	.4	.2	.7	233	2.2	55	99	78	0	7	6	0	
AK. FAIRBANKS	52	39	56	32	46	-4	.3	.1	.2	1.5	300	7.0	90	92	55	0	1	5	0	
AK. JUNEAU	58	39	64	35	49	-2	.7	.7	.4	2.2	81	30.8	94	100	57	0	0	2	0	
AK. KODIAK	61	48	64	41	54	2	.2	1.4	.2	.3	10	50.7	119	82	53	0	1	0	0	
AK. NOME	50	37	51	28	43	-3	.1	.6	T	.3	21	7.3	60	92	76	0	1	3	0	
AZ. PHOENIX	106	84	111	81	95	8	T	.1	T	0	0	8.1	159	52	22	7	0	0	0	
AZ. PRESCOTT	87	60	90	56	74	6	T	.4	T	.8	80	8.9	64	77	29	3	0	0	0	
AZ. TUCSON	99	74	104	72	86	4	.5	.1	.5	.7	88	11.0	128	64	25	7	0	2	0	
AZ. YUMA	107	85	112	82	96	7	0	.1	0	0	0	1.9	106	57	26	7	0	0	0	
AR. FORT SMITH	96	69	97	66	82	6	0	.7	.4	.29	21.6	73	85	33	7	0	0	0	0	
AR. LITTLE ROCK	94	71	96	67	83	6	.2	.7	.2	1.1	65	27.7	79	81	42	7	0	1	0	
CA. BAKERSFIELD	97	68	104	62	83	3	0	0	0	0	+100	7.9	219	67	26	6	0	0	0	
CA. EUREKA	68	54	70	48	61	4	0	.1	0	3.2	1600	40.1	172	92	68	0	0	0	0	
CA. FRESNO	97	64	104	60	81	5	0	0	0	.1	100	16.4	241	68	21	7	0	0	0	
CA. LOS ANGELES	78	65	92	63	72	2	0	.1	0	0	0	21.8	263	85	56	1	0	0	0	
CA. RED BLUFF	93	60	103	56	77	-1	0	.1	0	.3	150	29.9	230	68	22	4	0	0	0	
CA. SACRAMENTO	91	60	101	49	76	3	0	.1	0	0	0	23.8	229	76	25	4	0	0	0	
CA. SAN DIEGO	84	71	92	70	78	6	0	0	0	0	+100	14.6	235	83	53	1	0	0	0	
CA. SAN FRANCISCO	80	57	89	53	69	5	0	0	0	0	+100	25.4	213	83	44	0	0	0	0	
CO. DENVER	85	55	93	49	70	5	.1	.2	.1	.1	17	16.6	134	67	25	1	0	0	0	
CO. GRAND JUNCTION	90	62	93	56	76	6	.3	.1	.2	.3	75	9.9	174	59	18	3	0	3	0	
CO. PUEBLO	91	55	95	52	73	4	.1	.1	.1	.3	60	11.2	115	76	20	5	0	1	0	
CT. BRIDGEPORT	87	65	93	58	76	7	T	.8	T	.1	6	38.8	136	91	47	3	0	0	0	
CT. HARTFORD	91	61	96	54	76	10	T	1.0	T	.2	11	26.1	84	80	35	5	0	0	0	
DC. WASHINGTON	92	72	98	64	82	8	0	.8	0	.9	53	33.3	115	79	42	5	0	0	0	
FL. APALACHICOLA	91	74	93	70	82	2	1.0	1.2	1.0	2.8	67	45.2	108	96	59	6	0	1	1	
FL. DAYTONA BEACH	90	72	91	70	81	0	0	1.6	0	4.1	128	45.0	126	94	64	5	0	0	0	
FL. JACKSONVILLE	92	74	93	72	83	3	0	1.8	0	2.3	66	45.3	109	95	57	7	0	0	0	
FL. KEY WEST	88	80	90	78	84	1	.6	1.0	.3	2.0	67	44.6	166	81	66	1	0	3	0	
FL. MIAMI	91	78	92	73	85	3	.5	1.3	.2	3.5	97	43.1	102	89	58	7	0	4	0	
FL. ORLANDO	94	76	95	75	85	3	T	1.4	T	2.5	93	41.2	104	92	50	7	0	0	0	
FL. TALLAHASSEE	93	71	95	67	82	2	.3	1.4	.3	1.8	55	50.2	99	97	53	6	0	1	0	
FL. TAMPA	92	76	94	75	84	2	.1	1.6	.1	3.6	106	48.4	126	96	59	7	0	2	0	
FL. WEST PALM BEACH	91	79	92	75	85	3	.2	1.9	.2	1.1	29	54.8	131	83	60	7	0	2	0	
GA. ATLANTA	87	70	90	67	78	3	1.9	1.1	1.0	4.8	320	30.1	84	95	57	1	0	4	1	
GA. AUGUSTA	93	71	95	69	82	5	.2	.7	.1	2.4	133	37.5	112	92	48	7	0	2	0	
GA. MACON	93	72	97	69	82	4	T	.8	T	1.0	63	36.7	105	93	53	7	0	1	0	
GA. SAVANNAH	93	74	95	71	84	5	.2	1.2	.2	.5	18	41.9	101	91	50	7	0	1	0	
HT. HILO	82	70	83	67	76	0	.8	.8	.4	2.3	66	43.6	50	88	66	0	0	5	0	
HT. HONOLULU	90	75	92	72	83	2	.2	.1	.2	.2	100	2.3	16	81	46	6	0	1	0	
HT. KAHULUI	87	69	89	64	78	-1	T	.1	T	0	0	4.0	33	84	56	0	0	1	0	
HT. LIHUE	84	74	85	69	79	0	.3	.1	.2	.4	44	9.8	35	82	60	0	0	3	0	
ID. BOISE	80	47	91	43	63	-3	0	.1	0	.1	50	11.8	148	67	20	1	0	0	0	
ID. LEWISTON	74	51	86	44	62	-4	.5	.3	.1	.1	50	11.4	151	65	20	0	1	1	0	
ID. POCAHELLO	79	47	88	31	63	1	.1	0	.1	.6	150	10.1	116	77	28	0	0	1	0	
IL. CHICAGO	89	62	95	52	76	8	2.1	1.3	1.1	2.2	138	32.4	126	90	40	5	0	3	2	
IL. MOLINE	89	62	96	52	76	9	1.5	.6	1.0	1.7	100	22.3	77	86	40	4	0	3	1	
IL. PEORIA	92	64	97	55	78	10	1.1	.2	.5	1.2	71	26.9	98	90	39	5	0	3	0	
IL. QUINCY	93	67	96	54	80	10	1.2	.2	1.2	1.6	80	18.8	65	74	34	5	0	1	1	
IL. ROCKFORD	86	60	92	53	73	7	1.1	.2	.7	1.2	67	22.5	78	96	46	3	0	3	1	
IL. SPRINGFIELD	94	64	98	50	79	9	.1	.7	.1	.1	7	19.4	75	89	36	6	0	1	0	
IN. EVANSVILLE	93	66	98	56	80	8	0	.6	0	.4	33	33.2	104	82	35	7	0	0	0	
IN. FORT WAYNE	91	63	97	55	77	10	.4	.3	.4	.4	29	19.2	72	78	32	5	0	1	0	
IN. INDIANAPOLIS	91	64	95	57	78	8	.9	.2	9	1.5	107	24.3	82	86	39	5	0	1	1	
IN. SOUTH BEND	89	64	95	55	77	10	.1	.7	.1	.1	6	20.2	72	79	36	4	0	1	0	
IA. DES MOINES	90	64	97	52	77	9	.4	.4	.2	2.2	129	24.2	96	74	36	4	0	3	0	
IA. SIOUX CITY	89	61	100	48	75	8	.1	.6	.1	.2	15	19.7	94	81	36	3	0	1	0	
IA. WATERLOO	85	60	94	49	73	8	.6	.2	.6	1.1	65	25.0	94	90	45	3	0	1	1	
KS. CONCORDIA	93	67	99	53	80	0	T	.7	T	0	0	17.6	79	74	36	5	0	1	0	
KS. DODGE CITY	96	70	99	65	83	11	.1	.4	T	.2	20	17.8	102	70	29	6	0	2	0	
KS. GOODLAND	90	61	99	55	76	8	.2	.2	.2	.8	100	15.4	110	67	24	5	0	1	0	
KS. TOPEKA	97	68	100	55	82	11	.5	.4	.5	.8	44	24.9	95	78	34	6	0	1	0	
KS. WICHITA	96	70	97	67	83	9	.9	.1	.7	1.0	63	28.5	129	77	36	7	0	2	1	
KY. BOWLING GREEN	90	66	95	57	78	5	0	.8	0	.2	13	36.5	97	92	45	3	0	0	0	
KY. LEXINGTON	90	66	95	56	78	6	0	.8	0	.1	6	26.0	73	79	38	3	0	0	0	
KY. LOUISVILLE	91	66	96	57	79	6	T	.8	T	.4	25	30.9	92	79	38	3	0	1	0	
LA. ALEXANDRIA	90	70	92	67	80	0	.1	.5	.1	.2	18	37.4	95	92	54	5	0	3	1	
LA. BATON ROUGE	87	71	90	69	79	-1	1.3	.2	.9	1.4	64	58.9	139	95	59	2	0	3	1	
LA. LAKE CHARLES	87	73	92	73	80	0	3.7	2.4	2.5	3.8	146	43.5	110	91	64	2	0	4	2	
LA. NEW ORLEANS	86	72	91	70	79	-1	3.5	2.0	2.7	3.7	128	62.1	138	88	62	2	0	4	2	

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

+100 = NORMAL & ACTUAL NEAR THE SAME

Weather Data for the Week Ending Sept. 10, 1983

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE AUG 28	PCT. NORMAL SINCE AUG 28	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
ME SHREVEPORT	93	70	96	67	81	2	1.3	.6	1.1	1.3	93	35.1	109	96	46	7	0	1	1
ME CARIBOU	78	56	86	46	67	10	.5	-.4	.3	1.3	76	29.4	115	91	49	0	0	0	0
ME PORTLAND	84	58	89	47	71	10	0	-.8	0	.9	60	39.3	139	92	47	0	0	0	0
MD BALTIMORE	93	66	98	56	80	8	T	-.9	T	.1	5	34.0	111	87	35	6	0	0	0
MD SALISBURY	90	66	95	56	78	6	.2	-.8	.2	2.7	129	35.1	104	100	47	4	0	1	0
MA BOSTON	89	69	94	65	79	12	T	-.8	T	1.0	59	34.6	116	81	40	3	0	0	0
MA CHATHAM	78	65	81	61	72	7	T	-.9	T	1.1	61	40.8	128	92	59	0	0	0	0
MI ALPENA	85	55	94	43	70	11	.4	-.4	.2	.8	50	23.4	107	94	44	3	0	3	0
MI DETROIT	87	60	94	52	73	7	1.0	.4	1.0	1.5	125	25.3	108	89	41	2	0	1	1
MI FLINT	87	62	93	50	75	11	.8	.2	.6	1.1	85	21.3	93	91	46	4	0	2	1
MI GRAND RAPIDS	84	60	90	50	72	7	1.6	.9	.8	1.7	113	25.5	102	90	48	2	0	3	2
MI HOUGHTON LAKE	80	61	87	43	71	10	.5	-.2	.2	.8	57	18.6	92	87	53	0	0	4	0
MI LANSING	85	59	92	48	72	8	1.6	1.0	.9	2.1	162	24.4	108	92	46	3	0	3	1
MI MARQUETTE	75	54	84	46	64	8	1.5	.6	.7	2.4	141	28.2	107	97	59	0	0	4	2
MI MUSKOGON	82	62	88	52	72	8	2.5	1.8	1.5	2.5	179	19.1	85	93	51	0	0	2	2
MI SAULT STE. MARIE	79	56	85	46	68	11	1.1	.1	.7	1.5	79	22.4	97	95	60	0	0	4	1
MI ALEXANDRIA	74	56	91	51	65	5	1.0	.4	.5	1.5	107	16.4	81	94	61	1	0	3	1
MI DULUTH	72	55	80	47	63	7	1.7	.9	1.4	1.9	112	18.5	80	93	56	0	0	4	1
MI INT'L FALLS	70	53	79	49	62	6	2.6	1.8	1.5	3.3	220	18.0	94	98	62	0	0	3	2
MI WINEAPOLIS	80	61	93	52	71	7	1.0	.4	.5	1.6	123	27.5	130	80	52	1	0	4	0
MI ROCHFESTER	79	58	87	49	69	7	1.0	.3	.5	1.8	113	23.7	104	92	56	0	0	5	0
MS GREENWOOD	92	71	97	69	81	4	.1	-.7	.1	.4	29	44.7	116	89	46	7	0	1	0
MS JACKSON	90	70	96	66	80	1	.1	-.8	.1	.1	6	54.2	138	97	52	4	0	2	0
MS MERIDIAN	89	68	94	66	78	0	.5	-.3	.2	1.3	81	51.3	130	100	59	4	0	4	0
MO CAPE GIRARDEAU	93	71	97	67	82	-	.1	-.9	T	.1	5	28.0	84	91	43	7	0	0	0
MO COLUMBIA	95	70	97	63	82	11	T	-.8	T	1.3	81	25.7	97	77	36	7	0	0	0
MO KANSAS CITY	93	68	98	58	81	10	.3	-.7	.3	.5	26	22.0	79	75	37	6	0	2	0
MO SAINT LOUIS	94	73	98	68	83	11	0	-.6	0	0	0	26.6	104	79	35	6	0	0	0
MO SPRINGFIELD	93	69	97	65	81	9	1.9	1.0	1.7	2.5	139	29.3	102	82	43	7	0	2	1
MT BILLINGS	80	52	95	43	66	4	.1	-.2	.1	.1	17	7.6	66	62	19	1	0	2	0
MT GLASGOW	74	48	85	40	61	0	.4	-.2	.2	.4	80	6.3	63	70	25	0	0	2	0
MT GREAT FALLS	71	43	82	38	57	-3	.6	-.3	.3	.8	133	12.1	98	74	25	0	0	4	0
MT HAVRE	70	43	83	32	56	-4	.5	-.3	.5	.5	125	11.1	113	87	29	0	1	3	0
MT HELENA	71	44	80	34	58	-1	.3	-.1	.3	.4	80	11.5	126	72	26	0	0	2	0
MT KALISPELL	64	37	74	28	51	-6	.7	-.4	.6	1.1	157	13.8	115	94	44	0	2	4	1
MT MILES CITY	78	54	95	43	66	3	T	-.3	T	0	0	5.9	51	54	21	1	0	1	0
MT MISSOULA	67	39	79	28	53	-6	.2	-.2	.2	.5	125	12.4	133	87	34	0	1	2	0
NE GRAND ISLAND	90	63	99	52	77	10	T	-.6	T	0	0	20.6	105	72	30	5	0	1	0
NE LINCOLN	92	64	100	47	78	10	T	-.7	T	0	0	20.7	94	82	32	0	0	1	0
NE NORFOLK	91	61	100	46	76	10	T	-.5	T	0	0	21.3	104	77	29	4	0	2	0
NE NORTH PLATTE	86	56	96	48	71	6	T	-.4	T	0	0	16.4	98	76	37	2	0	0	0
NE OMAHA	89	65	98	55	77	10	.2	-.7	.1	.2	11	21.8	88	74	41	3	0	3	0
NE SCOTTSBLUFF	86	54	97	42	70	5	.1	-.2	.1	.4	80	12.6	102	77	22	2	0	1	0
NE VALENTINE	84	55	100	48	69	4	.1	-.3	.1	.7	88	21.3	136	82	31	2	0	2	0
NV FLY	82	44	87	34	63	4	0	-.7	0	0	0	11.1	171	73	18	0	0	0	0
NV LAS VEGAS	99	74	102	69	87	4	0	-.1	0	0	0	3.8	115	38	15	7	0	0	0
NV RENO	88	43	95	38	66	3	0	-.1	0	.2	100	7.6	155	72	16	3	0	0	0
NV WINNEMUCCA	84	38	92	29	61	-1	0	-.1	0	.1	50	7.6	131	56	12	1	1	0	0
NH CONCORD	86	54	90	45	70	8	T	-.8	T	.7	44	30.8	122	93	39	1	0	0	0
NH ATLANTIC CITY	91	65	98	54	78	9	0	-.8	0	1.3	76	30.2	96	89	40	4	0	0	0
NM ALBUQUERQUE	93	64	97	58	79	7	.3	-.1	.3	.3	60	5.1	82	66	21	6	0	1	0
NM CLOVIS	94	63	99	59	78	6	.4	-.1	.3	.4	40	7.2	51	74	26	5	0	2	0
NM ROSWELL	94	68	100	65	81	6	.1	-.3	.1	.3	33	4.5	58	53	26	6	0	2	0
NY ALBANY	84	58	91	49	71	7	T	-.7	T	.2	13	32.0	130	99	53	1	0	1	0
NY BINGHAMTON	84	60	91	51	72	10	T	-.8	T	.8	53	29.1	111	78	39	1	0	1	0
NY BUFFALO	81	64	87	54	73	8	.7	-.1	.5	1.0	59	21.1	80	80	47	0	0	2	1
NY NEW YORK	89	70	95	62	80	9	0	-.9	0	.5	28	38.6	126	80	41	3	0	0	0
NY ROCHESTER	83	62	89	52	73	8	.3	-.4	.2	1.4	100	21.4	98	90	52	0	0	2	0
NY SYRACUSE	83	60	89	51	71	6	1.0	.2	.9	1.4	88	22.5	80	96	50	0	0	1	1
NC ASHEVILLE	87	65	90	64	76	6	2.2	1.3	1.4	3.1	163	32.7	91	98	52	2	0	3	2
NC CHARLOTTE	92	70	94	68	81	6	0	-.9	0	.2	12	27.0	85	88	40	6	0	0	0
NC GREENSBORO	92	67	95	61	80	7	T	-.9	T	.1	5	29.9	93	84	37	5	0	1	0
NC HATTERAS	88	74	91	66	81	5	0	-.4	0	.8	29	39.6	102	94	60	3	0	0	0
NC NEW BERN	93	73	96	68	83	6	0	-.5	0	1.0	34	39.8	98	89	51	7	0	0	0
NC RALFICH	94	70	97	66	82	8	0	-.8	0	0	0	31.0	98	91	76	7	0	0	0
NC WILMINGTON	94	74	96	69	84	7	0	-.5	0	2.0	67	43.9	106	92	49	7	0	0	0
ND RISHARCK	77	49	86	39	63	2	.4	-.1	.4	.4	67	10.6	80	86	33	0	0	1	0
ND FARGO	75	51	88	44	63	2	.4	-.1	.3	2.2	220	15.0	91	97	51	0	0	2	0
ND GRAND FORKS	73	50	82	45	62	2	.4	-.1	.3	.9	82	15.8	107	91	51	0	0	5	0
ND WILLISTON	77	53	91	47	65	5	T	-.3	T	.1	14	7.3	65	71	25	1	0	0	0
OH AKRON-CANTON	85	63	93	57	74	8	1.2	.4	1.1	2.1	140	26.3	95	85	44	1	0	2	1
OH CINCINNATI	88	62	94	52	75	4	0	-.7	0	.9	69	25.7	84	87	39	2	0	0	0
OH CLEVELAND	86	63	92	54	74	8	1.3	.6	1.1	2.5	174	25.9	97	80	45	1	0	2	1
OH COLUMBUS	88	62	96	52	75	6	T	-.7	T	1.3	93	23.8	81	80	34	2	0	1	0

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

Weather Data for the Week Ending Sept. 10, 1983

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY PERCENT		NUMBER OF DAYS					
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE AUG 28	PCT. NORMAL SINCE AUG 28	TOTAL, IN., SINCE JAN. 1	PCT. NORMAL SINCE JAN. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE °F		PRECIPITATION		
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE	
DAYTON	88	63	95	54	76	6	.1	-.6	.1	.5	38	24.7	90	72	33	2	0	1	0	
TOLEDO	88	59	95	49	74	8	.5	-.2	.5	.9	64	21.5	90	93	41	5	0	1	0	
YOUNGSTOWN	85	62	91	51	74	9	1.1	-.4	1.1	2.3	153	24.4	86	81	41	1	0	1	0	
OK OKLAHOMA CITY	93	71	97	66	82	6	T	-.8	T	0	0	22.5	94	85	42	6	0	0	0	
TULSA	97	77	101	74	87	11	0	-1.0	0	.2	11	20.6	73	76	37	7	0	0	0	
OR ASTORIA	65	49	67	43	57	-3	1.4	-.8	.8	2.6	236	50.6	132	99	68	0	0	0	0	
BURNS	76	37	85	30	56	-5	0	-.1	0	.1	33	11.5	153	11	1	0	2	0	0	
MEDFORD	79	47	85	39	63	-4	0	-.1	0	1.1	367	15.3	133	91	35	0	0	0	0	
PENDLETON	72	51	80	45	61	-5	T	-.1	T	0	0	8.6	116	69	29	0	0	1	0	0
PORTLAND	71	53	75	48	62	-3	.3	-.1	.2	2.6	371	31.4	143	89	47	0	0	2	0	0
SALEM	73	47	78	44	60	-3	.1	-.2	.1	2.2	367	37.3	161	86	41	0	0	2	0	0
PA ALLENTOWN	90	62	96	56	76	8	0	-1.0	0	.1	5	32.2	102	84	35	4	0	0	0	0
ERIE	84	64	90	55	74	9	1.0	-.1	.9	1.2	67	27.8	102	80	48	1	0	0	0	0
HARRISBURG	90	61	97	54	76	6	0	-.9	0	.2	12	30.2	109	83	35	5	0	0	0	0
PHILADELPHIA	90	67	97	60	79	8	0	-.9	0	1.0	56	33.4	112	87	39	4	0	0	0	0
PITTSBURGH	85	62	93	52	74	7	T	-.7	T	.9	64	26.3	94	82	40	1	0	1	0	0
SCRANTON	87	61	95	52	74	8	T	-.8	T	.4	25	28.3	112	81	38	3	0	0	0	0
RI PROVIDENCE	91	66	96	58	79	12	T	-.8	T	.1	6	41.5	134	75	31	5	0	0	0	0
SC CHARLESTON	92	75	95	72	83	6	.1	-1.2	.1	1.5	56	42.1	101	94	56	6	0	1	0	0
COLUMBIA	94	71	95	68	83	5	T	-1.1	T	1.3	57	31.0	82	95	45	7	0	0	0	0
FLORENCE	96	73	99	69	85	7	0	-1.0	0	.3	15	37.3	111	85	38	7	0	0	0	0
SD GREENVILLE	87	69	90	68	78	4	.5	-.5	.2	2.8	140	36.6	97	95	56	1	0	2	6	0
ABERDEEN	79	55	94	45	67	4	.6	-.3	.4	.6	86	18.9	127	95	45	1	0	3	0	0
SD HURON	83	55	100	47	69	5	1.5	-1.1	.8	1.5	188	13.8	89	98	42	2	0	4	2	0
RAPID CITY	82	52	99	44	67	3	.1	-.2	.1	.1	17	11.9	84	77	26	2	0	2	0	0
SD SIOUX FALLS	85	56	97	46	70	6	1.1	-.4	.7	2.6	173	21.7	107	97	46	2	0	4	1	0
TN CHATTANOOGA	88	69	93	68	79	4	.2	-.8	.2	1.3	68	31.7	83	95	53	3	0	3	0	0
KNOXVILLE	89	68	93	67	79	4	.3	-.4	.2	.8	57	28.6	81	100	55	3	0	2	0	0
MEMPHIS	93	73	95	71	83	6	.5	-.4	.5	.5	28	35.5	90	97	51	7	0	1	0	0
TX NASHVILLE	94	72	99	64	83	8	T	-.9	T	.3	18	33.8	93	89	42	6	0	1	0	0
ABILENE	95	74	99	71	84	6	0	-.7	0	0	0	12.7	73	74	31	7	0	0	0	0
AMARILLO	96	66	102	62	81	9	.1	-.4	.1	.1	9	10.6	65	68	26	7	0	1	0	0
AUSTIN	93	73	99	70	83	2	.5	-.3	.3	.7	47	26.1	112	88	44	5	0	3	0	0
BEAUMONT	84	74	90	74	79	-2	6.6	5.1	5.0	6.9	238	60.4	159	98	78	1	0	4	3	0
BROWNSVILLE	92	76	98	74	84	1	2.2	1.0	.7	3.1	141	18.8	112	90	60	5	0	4	2	0
CORPUS CHRISTI	89	74	96	72	82	-1	5.3	3.8	2.7	5.5	204	29.2	136	97	65	4	0	3	2	0
DEL RIO	96	75	99	72	86	3	.2	-.4	.2	.2	18	6.5	51	82	37	7	0	1	0	0
EL PASO	96	71	101	65	83	7	T	-.3	T	0	0	4.6	81	54	21	7	0	0	0	0
FOPT WORTH	93	73	96	70	83	2	0	-.7	0	.1	8	24.1	108	83	41	7	0	0	0	0
GALVESTON	87	75	90	71	81	-1	7.0	5.6	2.2	8.2	304	42.8	148	88	66	1	0	5	4	0
HOURTON	88	72	93	71	80	0	.9	-.3	.6	1.7	74	39.2	170	94	61	3	0	5	1	0
LUBBOCK	94	68	98	65	81	7	.1	-.4	.1	.1	10	8.3	58	68	33	7	0	1	0	0
MIDLAND	96	71	101	68	83	7	T	-.5	T	0	0	3.0	29	67	31	7	0	0	0	0
SAN ANGELO	94	73	97	70	83	4	0	-.7	0	0	0	10.0	75	78	33	7	0	0	0	0
SAN ANTONIO	92	74	99	72	83	2	1.2	-.3	.8	1.2	71	18.5	88	86	45	6	0	4	1	0
VICTORIA	89	74	95	72	81	0	.8	-.7	.5	.9	32	28.0	105	98	62	3	0	4	0	0
WACO	91	74	96	71	83	1	.2	-.5	.2	.2	15	18.8	81	91	48	4	0	2	0	0
WICHITA FALLS	98	73	101	69	86	7	0	-.8	0	0	0	15.7	77	81	30	7	0	0	0	0
UT BLANDING	84	56	91	53	70	4	.2	0	.2	.4	100	9.8	136	71	28	1	0	1	0	0
CPDAR CITY	84	55	89	49	69	3	T	-.2	T	0	0	10.9	143	65	24	0	0	1	0	0
SALT LAKE CITY	83	60	89	49	71	3	T	-.2	T	.6	150	15.7	144	75	28	0	0	1	0	0
VT BURLINGTON	82	62	88	52	72	10	.3	-.5	.2	.5	31	30.5	125	85	46	0	0	2	0	0
VA NORFOLK	90	72	97	65	81	6	0	-1.1	0	1.7	77	30.5	90	86	45	4	0	0	0	0
RICHMOND	93	67	97	57	80	7	T	-.8	T	.1	6	26.4	83	44	37	6	0	1	0	0
ROANOKE	93	65	97	58	79	8	0	-.8	0	0	0	29.0	100	88	34	5	0	0	0	0
WA COLVILLE	68	42	77	38	55	-6	.5	-.3	.4	.7	140	19.1	163	78	42	0	0	2	0	0
QUILLAYUTE	64	45	67	40	55	-3	2.0	1.1	1.3	6.4	376	76.6	179	99	60	0	0	6	1	0
SEATTLE-TACOMA	65	51	68	47	58	-4	.6	-.2	.6	2.9	414	26.1	120	89	50	0	0	3	1	0
SPOKANE	70	46	80	43	58	-4	.4	-.2	.4	.5	125	13.8	122	65	26	0	0	1	0	0
YAKIMA	74	45	80	38	60	-4	T	-.1	T	.4	200	7.8	170	75	32	0	0	0	0	0
WV BECKLEY	81	61	85	55	71	5	T	-.8	T	.2	13	74.4	76	94	51	0	0	2	0	0
CHARLESTON	89	63	96	54	76	6	.1	-.7	.1	.1	6	26.8	83	89	40	4	0	1	0	0
HUNTINGTON	89	65	97	56	77	6	T	-.8	T	.1	6	24.7	79	86	38	3	0	1	0	0
PARKERSBURG	85	63	92	56	74	5	T	-.7	T	3.5	250	29.3	90	91	41	1	0	0	0	0
WI GREEN BAY	80	59	88	50	70	8	.2	-.6	.2	.5	31	21.0	99	95	56	0	0	2	0	0
LA CROSSE	81	62	90	53	72	7	.8	-.1	.4	.9	53	18.6	76	95	57	1	0	4	0	0
MADISON	82	58	89	48	70	7	1.4	-.7	1.0	1.7	113	22.1	92	92	49	0	0	3	1	0
MILWAUKEE	84	62	92	54	73	9	1.2	-.5	.9	1.2	86	26.4	114	71	42	2	0	2	1	0
WAUSAU	79	58	86	48	69	8	1.0	0	.7	2.6	130	19.4	76	92	52	0	0	3	1	0
WY CASPER	85	49	92	35	67	6	T	-.1	T	0	0	13.6	155	68	15	1	0	0	0	0
CHEYENNE	77	49	86	42	63	2	.4	-.1	.4	.7	140	17.4	154	83	37	0	0	2	0	0
LANDER	81	49	90	38	65	4	.4	-.2	.2	.4	133	11.0	61	21	1	0	0	2	0	0
SHERIDAN	82	49	97	36	66	5	T	-.3	T	0	0	5.0	42	63	21	1	0	0	0	0
PR SAN JUAN	91	78	94	77	84	2	.1	-1.3	.1	.3	11	26.9	74	88	62	5	0	0	3	0

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

## August Weather and Crop Summary

### WEATHER SUMMARY

**HIGHLIGHTS:** A heat wave, centered in the central and northern Plains, persisted throughout the month. Average temperatures for the month were 8-10° warmer than normal in the central and northern Plains, and 4-7° warmer in the eastern end of the Corn Belt. The unusually warm temperatures and scarcity of rain severely stressed crops throughout the Corn Belt and the central and northern Plains. Much of the Corn Belt had less than half the expected rain. The eastern end of the Corn Belt fared somewhat better than other areas but showers were spotty. Some welcome showers fell in the Southeast during the first week of the month but much more was needed and little rain fell in most of the Southeast until the end of the month when shower activity increased. In the third week of the month Hurricane Alicia crashed onto the southeastern coast of Texas and then spread rain northward into the Plains.

**FIRST WEEK...**Much needed precipitation fell in the southern and southeastern United States. Amounts of over two inches accumulated in the driest sections of the Carolinas and Georgia. Some moderate showers fell in Indiana, parts of Ohio, and in Missouri and Illinois, but unusually warm weather increased the demand for current rain and sapped the dwindling soil moisture reserves. Average temperatures were 9-11° above normal in the northern Plains and 3-6° above normal in most of the Corn Belt.

**SECOND WEEK...**Showers and thunderstorms were widespread over the area from eastern Texas and Oklahoma through New England but amounts of precipitation were variable. Beneficial amounts fell in the Corn Belt along a line from northwestern Illinois to eastern Kentucky, in southern Michigan, and along the northern edge of Ohio. Light showers were scattered through the West and some even fell in the normally dry southern part of California's San Joaquin Valley. The highest average temperatures were in the northern Rockies. Afternoon highs were over 90° in much of the Corn Belt early in the week but cooled later in the week.

**THIRD WEEK...**Hot, dry weather prevailed over most of the eastern United States. The hot weather was centered over Iowa where average temperatures were 12-14° above normal. The heat wave spread southeastward as the week ended. Hurricane Alicia crashed onto the southeastern coast of Texas and after having wreaked havoc along the coast, spread showers northward through the Plains.

**FOURTH WEEK...**Rains from the remnants of Tropical Storm Alicia spread from central Kansas through Nebraska, and northeastward to the Great Lakes. Later, isolated showers spread from central Illinois into western Indiana. Some helpful showers fell on inland areas of the Carolinas. Average temperatures were unusually warm over most of the Corn Belt. The highest departures from normal were along a line from the Dakotas to Georgia.

During the last four days of the month a storm in the Gulf of Mexico became a hurricane, moved onto the coast of northeastern Mexico, and spread showers along the Texas coast. As the month ended, showers and thunderstorms were increasing in the Southeast and bringing welcome moisture to that dry area.

### CROP DEVELOPMENT

Hot, dry weather persisted through August from the Rocky Mountains eastward. Unseasonably hot weather advanced small grain maturity, promoting rapid completion of combining in the northern Plains and Great Lakes region. Limited precipitation and hot temperatures put row crops under increasing moisture stress and caused rapid deterioration of pastures and ranges from the southern and central Plains through the southern Corn Belt and Appalachians into the Southeast. Hurricane Alicia damaged some crops in southeastern Texas, but brought needed moisture northward into the central Plains late in the month. Widespread showers at the month's end aided soybean sizing in portions of the Corn Belt and the Southeast, but the benefit to the corn crop was limited due to the late stage of development in most areas.

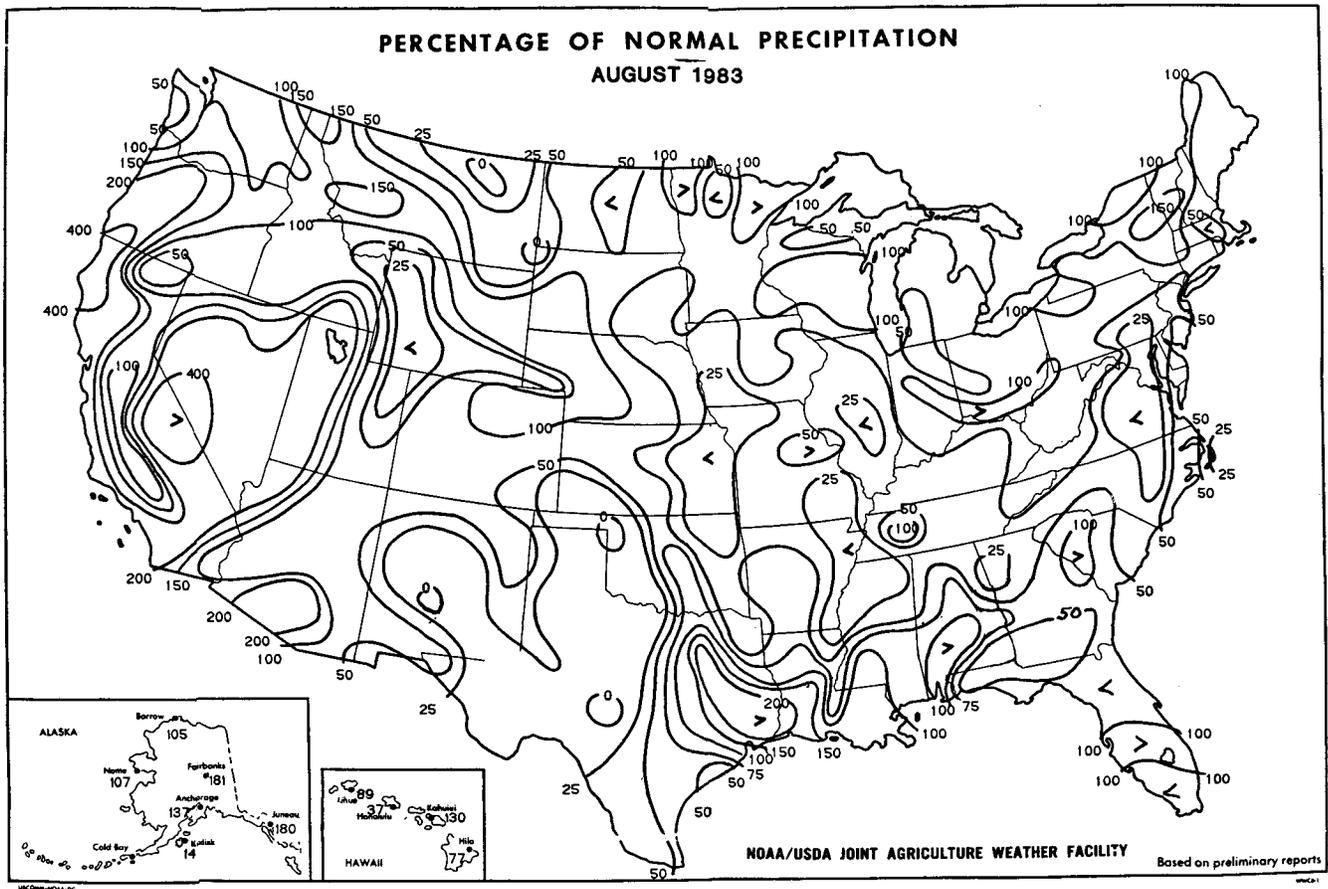
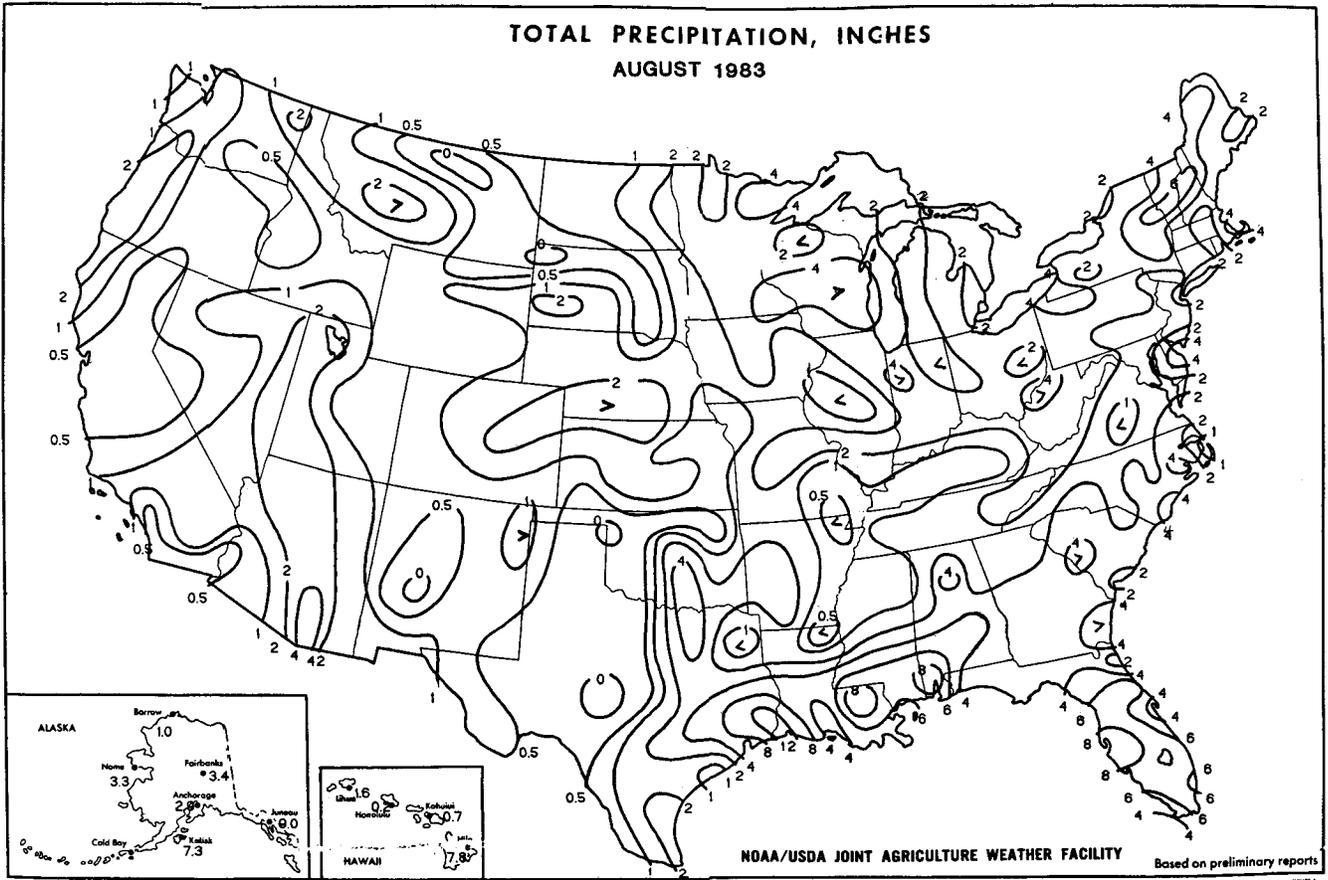
At the beginning of September, corn was in mostly poor to fair condition, except in the West, northern Plains, Great Lakes States, and the lower Delta where fair to good conditions were reported. Farmers in the Midwest and Southeast diverted their poorest grain acres to silage as conditions became drier. In the 17 major producing States, 94% of the corn was in or past the dough stage, on September 4 compared with the 90% average. Sixty-four percent had reached the dent stage, 5 percentage points ahead of normal. Harvesting was underway as far north as Maryland and Missouri at the end of August.

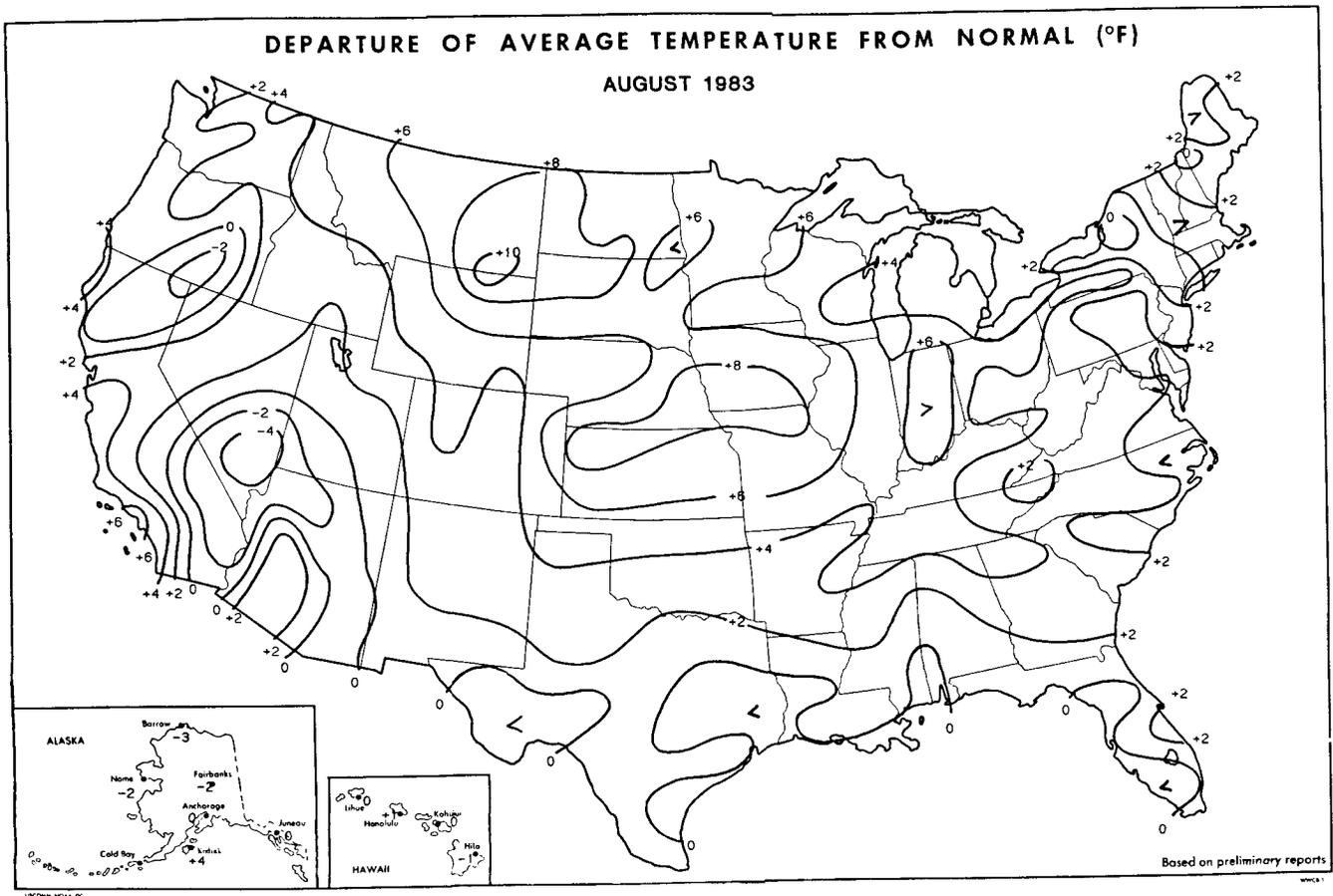
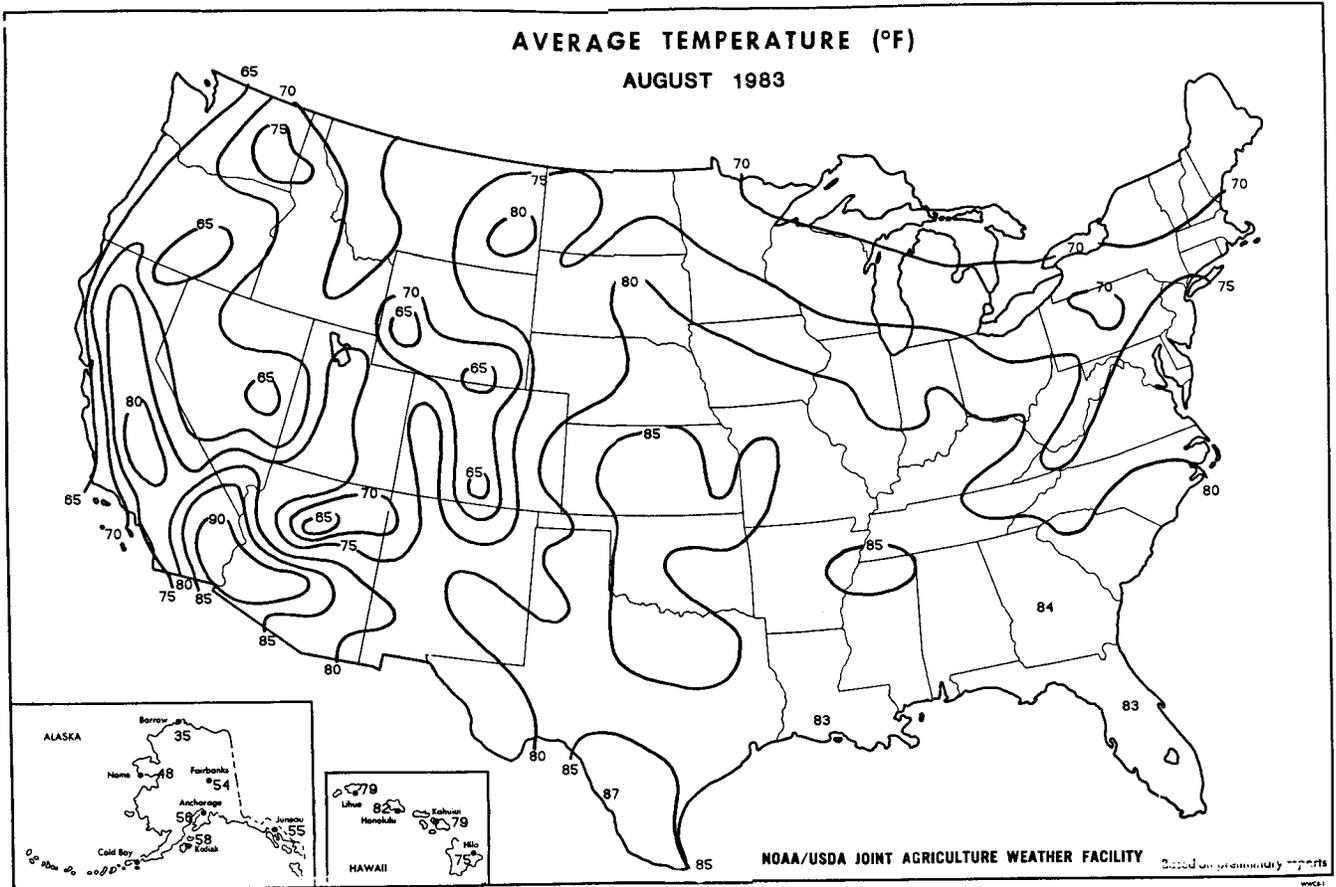
Soybeans were in poor to fair condition in most producing areas on September 1. Widely scattered showers in late August aided the filling of pods in portions of the eastern Corn Belt and benefited late-planted soybeans in the extreme Southeast. However, some blossoms and pods were lost due to moisture stress and additional rain is needed in nearly all areas to prevent further stress and promote good development. Growers across the northern Plains increased insecticide applications to control large populations of caterpillars and grasshoppers. In the 18 major States, 97% of the crop had bloomed by September 4 and 90% had set pods. Normally, about 98% has bloomed and 92% has set pods. As the month ended, fields began dropping leaves as far north as the southern Corn Belt.

Cotton was in mostly fair condition, except in Missouri and the Southeast where fair to poor conditions prevailed at the beginning of September. Moisture stress caused some boll droppage in portions of Texas and the Southeast. Boll set was virtually complete in all States by the end of August. Bolls had opened on 18% of the acreage in the 14 major producing States, compared with the 29% average. Harvesting had begun in Georgia and was 10% finished in Texas at the end of the month. Spraying was active in many areas.

Sorghum was in poor to fair condition, except in Colorado and Texas where fair to good conditions were reported. Dryland fields were severely stressed across the southern Plains due to dry conditions. In the seven major producing States, heading was complete on 91% of the acreage and turning color on 53% by September 4. This compares with the 96% average for heading and 59% turning color. Harvesting moved northward into the Texas Blacklands and was 62% complete in that State, as the month ended.

(continued on p. 14)





Temperature and Precipitation Data for August 1983

States and Stations	Temperature OF		Precipitation Inches		States and Stations	Temperature OF		Precipitation Inches		States and Stations	Temperature OF		Precipitation Inches	
	Average	Departure	Total	Departure		Average	Departure	Total	Departure		Average	Departure	Total	Departure
AL BIRMINGHAM	82	2	4.9	1.0	LA BATON ROUGE	82	1	8.4	3.3	TOLEDO	71	1	2.2	- 1.0
MOBILE	81	- 1	11.6	4.8	LAKE CHARLES	84	2	8.7	3.3	YOUNGSTOWN	74	5	2.3	- 1.2
MONTGOMERY	83	2	4.3	1.1	NEW ORLEANS	83	1	7.6	1.6	OK OKLAHOMA CITY	84	3	3.2	.8
AK ANCHORAGE	56	0	2.9	.8	SHREVEPORT	84	2	1.7	- .8	TULSA	88	6	6.5	3.5
BARROW	35	- 3	1.0	.0	ME CARIBOU	64	1	3.9	.4	OR ASTORIA	62	1	1.1	- .5
FAIRBANKS	55	- 2	3.4	1.5	PORTLAND	68	1	2.6	- .2	BURNS	65	- 2	.7	- 1.1
JUNEAU	55	0	9.0	4.0	MD BALTIMORE	78	2	1.6	- 3.0	MEDFORD	73	2	2.2	1.7
KODIAK	59	4	.7	- 4.5	MA BOSTON	74	2	3.3	- .4	PENDLETON	73	1	.6	.0
NOME	48	- 2	3.3	.2	CHATHAM	69	1	5.8	1.7	PORTLAND	69	2	2.3	1.2
AZ FLAGSTAFF	64	0	3.5	.9	MI ALPENA	69	4	2.6	- .6	SALEM	68	2	1.9	1.1
PHOENIX	93	3	2.5	1.5	DETROIT	74	3	1.6	- 1.6	PA ALLENTOWN	76	4	2.4	- 2.0
TUCSON	84	0	4.3	2.2	FLINT	73	4	2.3	- 1.1	ERIE	72	4	4.7	.8
WINSLOW	77	1	1.4	.0	GRAND RAPIDS	72	2	1.5	- 2.0	HARRISBURG	75	1	2.5	- .8
YUMA	91	- 1	2.6	2.2	HOUGHTON LAKE	69	3	3.9	1.0	PHILADELPHIA	77	2	2.6	- 1.5
AR FORT SMITH	84	3	2.4	- .6	LANSCING	72	3	2.7	- .3	PITTSBURGH	73	2	3.1	- .2
LITTLE ROCK	85	4	1.9	- 1.2	MARQUETTE	68	3	3.2	- .1	SCRANTON	72	2	1.8	- 1.7
CA BAKERSFIELD	83	1	1.2	1.1	MUSKEGON	72	3	1.5	- 1.6	RI PROVIDENCE	74	3	2.7	- 1.3
EUREKA	62	5	3.4	3.0	SAULT STE. MARIE	68	5	2.7	- .8	SC CHARLESTON	83	3	2.9	- 3.6
FRESNO	82	3	.1	.1	MN DULUTH	70	7	3.4	- .7	COLUMBIA	83	3	3.4	- 2.2
LOS ANGELES	74	4	1.3	1.2	INT'L FALLS	69	6	3.7	.7	GREENVILLE	80	4	3.3	- .4
RED BLUFF	79	- 1	.8	.6	MINNEAPOLIS	77	6	3.1	- .5	SD ABERDEEN	77	6	2.2	.2
SAN DIEGO	77	5	.4	.3	ROCHESTER	74	6	4.7	.8	HURON	79	7	.4	- 1.6
SAN FRANCISCO	67	4	0	- .1	SAINT CLOUD	73	6	3.5	- .8	RAPID CITY	78	7	2.4	1.0
STOCKTON	79	2	0	- .1	MS JACKSON	83	2	3.7	.0	SIoux FALLS	78	6	2.0	- 1.1
CO DENVER	74	3	1.5	.0	MERIDIAN	81	0	3.1	- .3	TN CHATTANOOGA	82	4	1.3	- 2.1
GRAND JUNCTION	80	4	.7	- .2	MO COLUMBIA	82	6	3.3	.4	KNOXVILLE	80	3	3.9	.9
PUEBLO	77	3	1.6	- .2	KANSAS CITY	83	6	.9	- 2.7	MEMPHIS	85	4	.6	- 3.1
CT BRIDGEPORT	73	0	2.6	- 1.1	SAINT LOUIS	83	6	2.2	- .4	NASHVILLE	83	5	1.4	- 2.0
HARTFORD	73	2	2.6	- 1.4	SPRINGFIELD	83	6	1.3	- 1.5	TX ARILENE	85	8	.1	- 2.4
DC WASHINGTON	81	3	3.1	- 1.3	MT BILLINGS	78	8	1.1	.0	AMARILLO	81	4	.3	- 2.7
FL APALACHICOLA	82	1	5.4	- 2.1	GLASGOW	76	7	.3	- 1.1	AUSTIN	84	- 1	2.2	.0
DAYTONA BEACH	81	0	6.8	.5	GREAT FALLS	72	4	1.1	- .2	BEAUMONT	82	- 1	14.4	8.9
FORT MYERS	82	- 1	6.5	- 2.1	HAVRE	72	5	.2	- 1.0	BROWNSVILLE	86	2	2.4	- .4
JACKSONVILLE	83	2	6.1	- 1.1	HELENA	71	5	2.7	1.5	CORPUS CHRISTI	84	- 1	2.7	- .8
KEY WEST	84	0	2.8	- 2.0	KALISPELL	66	2	.8	- .8	DEL RIO	86	1	.8	- .8
MIAMI	83	0	5.9	- 1.1	MILES CITY	80	8	.3	- 1.0	EL PASO	82	2	1.0	- .2
ORLANDO	83	0	4.8	- 1.5	MISSOULA	69	3	1.3	.3	FORT WORTH	86	0	5.6	3.8
TAIHAASSFF	87	1	2.5	- 3.8	NE GRAND ISLAND	82	7	2.0	- .6	GALVESTON	84	1	11.2	6.8
TAMPA	82	0	8.9	1.3	LINCOLN	83	8	1.2	- 2.2	HOUSTON	83	0	9.4	5.7
WEST PALM BEACH	84	1	8.2	2.4	NORFOLK	81	8	1.3	- 1.4	LUBBOCK	80	2	.3	- 1.9
GA ATLANTA	81	3	1.1	- 2.3	NORTH PLATTE	72	0	1.9	.0	MIDLAND	84	3	.4	- 1.2
AUGUSTA	83	3	5.0	1.0	OMAHA	82	8	1.0	- 3.2	SAN ANGELO	82	- 1	0	- 1.9
MACON	84	3	3.0	- .6	VALENTINE	78	6	.8	- 1.6	SAN ANTONIO	85	1	2.0	- .7
SAVANNAH	83	2	3.7	- 3.0	NV ELY	66	1	2.5	1.9	VICTORIA	84	0	1.9	- 1.4
HI HILO	75	- 1	7.7	- 2.3	LAS VEGAS	84	- 4	1.3	.8	WACO	86	0	2.5	.5
HONOLULU	82	1	.2	- .4	RENO	70	3	.8	.5	WICHITA FALLS	86	2	.2	- 1.9
KAHULUI	79	0	.7	.7	WINNEMUCCA	71	2	1.5	1.1	UT BLANDING	73	2	.8	- .6
LIHUE	79	0	1.6	- .3	NH CONCORD	69	2	2.1	- 1.2	SALT LAKE CITY	78	3	2.6	1.7
ID BOISE	75	3	.3	- .1	NJ ATLANTIC CITY	76	3	2.9	- 1.8	VT BURLINGTON	69	2	4.3	1.4
LEWISTON	77	5	.9	.1	TRENTON	77	3	.3	- 1.2	VA LYNCHBURG	78	3	2.6	- 1.1
POCATELLO	71	2	1.7	1.1	NM ALBUQUERQUE	79	3	.3	- 1.2	NORFOLK	79	1	3.1	- 2.2
IL CAIRO	85	6	.2	- 3.8	NY ALBANY	70	1	3.4	.1	RICHMOND	78	1	1.0	- 4.0
CHICAGO	77	5	2.1	- 1.4	BINGHAMTON	71	4	3.2	- .2	ROANOKE	78	3	2.2	- 1.7
MOLINE	80	7	.9	- 2.9	BUFFALO	71	2	3.5	- .7	COLVILLE	69	2	2.1	.9
PEORIA	81	8	1.1	- 2.3	NEW YORK	78	3	3.4	- .9	OMAK	74	5	2.6	1.9
ROCKFORD	77	6	2.5	- 1.2	ROCHESTER	71	1	5.4	2.2	QUILLAYUTE	60	1	2.1	- .8
SPRINGFIELD	80	6	.8	- 2.4	SYRACUSE	69	0	2.8	- 1.0	SEATTLE-TACOMA	63	- 1	2.4	1.1
IN EVANSVILLE	82	4	.9	- 2.2	NC ASHEVILLE	76	3	.9	- 3.9	SPOKANE	72	4	.9	.2
FORT WAYNE	78	7	1.7	- 1.6	CHARLOTTE	80	2	3.6	- .2	WALLA-WALLA	77	3	.7	.0
INDIANAPOLIS	80	7	2.8	- .7	GREENSBORO	78	2	1.4	- 2.8	YAKIMA	67	- 2	.3	- .1
SOUTH BEND	78	7	1.3	- 2.6	HATTERAS	79	0	1.0	- 4.8	WV BECKLEY	71	2	2.5	- 1.2
IA BURLINGTON	83	9	3.0	- 1.1	RALEIGH	79	2	1.8	- 2.6	CHARLESTON	78	4	2.5	- 1.7
DES MOINES	77	7	2.2	- 2.3	WILMINGTON	82	2	5.6	- 1.0	HUNTINGTON	80	6	3.6	- .1
DUBUQUE	81	8	1.2	- 1.9	ND BISMARCK	75	6	.9	- .8	PARKERSBURG	77	1	1.0	- .1
KS CONCORDIA	85	8	2.6	- .8	FARGO	73	4	2.6	- .1	WI GREEN BAY	71	3	5.3	2.1
DODGE CITY	87	9	1.5	- 1.0	WILLISTON	78	10	.9	- .5	LA CROSSE	75	4	3.0	- .7
GOODLAND	83	9	1.4	- .5	OH AKRON-CANTON	74	4	3.1	- .2	MADISON	72	3	5.0	1.2
TOPEKA	83	6	.6	- 3.1	CINCINNATI	78	4	3.2	.2	MILWAUKEE	75	6	4.7	1.6
WICHITA	85	5	1.4	- 1.4	CLEVELAND	73	3	2.1	- 1.3	CASPER	75	6	.8	.2
KY LEXINGTON	80	5	1.3	- 2.7	COLUMBUS	76	4	2.2	- 1.5	CHEYENNE	70	3	2.0	.6
LOUISVILLE	82	6	2.4	- .9	DAYTON	76	1	1.1	- 2.0	LANDFR	74	5	.3	- .2
									SHERIDAN	78	10	1.2	.2	
									PR SAN JUAN	84	2	3.6	- 2.3	

Based on 1951-80 NORMALS

(continued from p. 11)

Winter wheat combining was nearly complete at the end of August. Plowing for the 1984 crop was active. However, seeding was delayed from the southern Plains into the western Corn Belt by extremely dry soils. By September 4, the Colorado crop was 6% seeded, the Nebraska crop was 3% seeded and less than 5% was planted in Montana.

Spring wheat combining reached 95% completion in the five major producing States, well ahead of the 74% average. Warm temperatures caused rapid maturity and early combining in most areas. Idaho, with 53% harvested by September 4, was the only State behind normal.

Heating Degree Days (Base 65° F.)

August 1983

ALA. Birmingham . . . . .	0	MAINE, Caribou . . . . .	78	OKLA. Okla. City . . . . .	0
Mobile . . . . .	0	Portland . . . . .	38	Tulsa . . . . .	0
Montgomery . . . . .	0	MD. Baltimore . . . . .	0	OREG. Astoria . . . . .	98
ALASKA, Anchorage . . . . .	216	MASS. Boston . . . . .	8	Burns . . . . .	76
Barrow . . . . .	936	Chatham . . . . .	16	Medford . . . . .	3
Fairbanks . . . . .	326	MICH. Alpena . . . . .	32	Pendleton . . . . .	1
Nome . . . . .	518	Detroit . . . . .	0	Portland . . . . .	2
ARIZ. Flagstaff . . . . .	64	Flint . . . . .	5	Salem . . . . .	3
Phoenix . . . . .	0	Grand Rapids . . . . .	2	PA. Allentown . . . . .	1
Tucson . . . . .	0	Houghton Lake . . . . .	29	Erie . . . . .	0
Winslow . . . . .	0	Lansing . . . . .	9	Harrisburg . . . . .	2
Yuma . . . . .	0	Marquette . . . . .	38	Philadelphia . . . . .	0
ARK. Fort Smith . . . . .	0	S. Ste. Marie . . . . .	1	Pittsburgh . . . . .	2
Little Rock . . . . .	0	MINN. Duluth . . . . .	9	Scranton . . . . .	11
CALIF. Bakersfield . . . . .	0	Internatl Falls . . . . .	23	R.I. Providence . . . . .	4
Eureka . . . . .	90	Minneapolis . . . . .	0	S.C. Charleston . . . . .	0
Fresno . . . . .	0	Rochester . . . . .	0	Columbia . . . . .	0
Los Angeles . . . . .	0	St. Cloud . . . . .	0	Greenville . . . . .	0
Red Bluff . . . . .	0	MISS. Jackson . . . . .	0	S. DAK. Aberdeen . . . . .	0
Stockton . . . . .	0	Meridian . . . . .	0	Huron . . . . .	0
San Diego . . . . .	0	MO. Columbia . . . . .	0	Rapid City . . . . .	0
San Francisco . . . . .	1	Kansas City . . . . .	0	Sioux Falls . . . . .	0
COLO. Denver . . . . .	0	St. Louis . . . . .	0	TENN. Chattanooga . . . . .	0
Grand Junction . . . . .	0	Springfield . . . . .	0	Knoxville . . . . .	0
Pueblo . . . . .	0	MONT. Billings . . . . .	5	Memphis . . . . .	0
CONN. Bridgeport . . . . .	8	Glasgow . . . . .	5	Nashville . . . . .	0
Hartford . . . . .	7	Great Falls . . . . .	2	TEX. Abilene . . . . .	0
D.C. Washington . . . . .	0	Havre . . . . .	5	Amarillo . . . . .	0
FLA. Apalachicola . . . . .	0	Helena . . . . .	0	Austin . . . . .	0
Ft. Myers . . . . .	0	Kalispell . . . . .	32	Beaumont . . . . .	0
Jacksonville . . . . .	0	Miles City . . . . .	1	Brownsville . . . . .	0
Key West . . . . .	0	Missoula . . . . .	10	Corpus Christi . . . . .	0
Miami . . . . .	0	NEBR. Grand Island . . . . .	0	Del Rio . . . . .	0
Orlando . . . . .	0	Lincoln . . . . .	0	El Paso . . . . .	0
W. Palm Beach . . . . .	0	Norfolk . . . . .	0	Fort Worth . . . . .	0
Tallahassee . . . . .	0	North Platte . . . . .	0	Galveston . . . . .	0
Tampa . . . . .	0	Omaha . . . . .	0	Houston . . . . .	0
GA. Atlanta . . . . .	0	Valentine . . . . .	0	Lubbock . . . . .	0
Augusta . . . . .	0	NEV. Ely . . . . .	50	Midland . . . . .	0
Macon . . . . .	0	Las Vegas . . . . .	0	San Angelo . . . . .	0
Savannah . . . . .	0	Reno . . . . .	6	San Antonio . . . . .	0
IDAHO, Boise . . . . .	0	Winnemucca . . . . .	6	Victoria . . . . .	0
Lewiston . . . . .	0	N.H. Concord . . . . .	33	Waco . . . . .	0
Pocatello . . . . .	3	N.J. Atlantic City . . . . .	0	Wichita Falls . . . . .	0
ILL. Cairo . . . . .	0	N. MEX. Albuquerque . . . . .	0	UTAH, Milford . . . . .	0
Chicago . . . . .	0	N.Y. Albany . . . . .	24	Salt Lake City . . . . .	0
Moline . . . . .	1	Binghamton . . . . .	13	VT. Burlington . . . . .	36
Peoria . . . . .	0	Buffalo . . . . .	10	VA. Lynchburg . . . . .	0
Rockford . . . . .	0	New York . . . . .	2	Norfolk . . . . .	0
Springfield . . . . .	0	Rochester . . . . .	8	Richmond . . . . .	0
IND. Evansville . . . . .	0	Syracuse . . . . .	25	Roanoke . . . . .	0
Fort Wayne . . . . .	0	N.C. Asheville . . . . .	0	WASH. Colville . . . . .	2
Indianapolis . . . . .	0	Charlotte . . . . .	0	Quillayute . . . . .	146
South Bend . . . . .	0	Greensboro . . . . .	0	Seattle-Tacoma . . . . .	72
IOWA, Des Moines . . . . .	0	Hatteras . . . . .	0	Spokane . . . . .	2
Dubuque . . . . .	0	Raleigh . . . . .	0	Walla Walla . . . . .	0
Souix City . . . . .	0	Wilmington . . . . .	0	Yakima . . . . .	32
KANS. Concordia . . . . .	0	N. DAK. Bismarck . . . . .	0	W. VA. Beckley . . . . .	12
Dodge City . . . . .	0	Fargo . . . . .	2	Charleston . . . . .	0
Goodland . . . . .	0	Williston . . . . .	0	Huntington . . . . .	0
Topeka . . . . .	0	OHIO. Akron-Canton . . . . .	0	WIS. Green Bay . . . . .	2
Wichita . . . . .	0	Cincinnati . . . . .	0	Madison . . . . .	6
KY. Lexington . . . . .	0	Cleveland . . . . .	0	Milwaukee . . . . .	0
Louisville . . . . .	0	Columbus . . . . .	0	WYO. Casper . . . . .	0
LA. Baton Rouge . . . . .	0	Dayton . . . . .	0	Cheyenne . . . . .	0
Lake Charles . . . . .	0	Toledo . . . . .	0	Lander . . . . .	0
New Orleans . . . . .	0	Youngstown . . . . .	0	Sheridan . . . . .	0
Shreveport . . . . .	0				

## National Agricultural Summary

September 5 to 11

**HIGHLIGHTS:** Hot, dry weather persisted across much of the Nation's midsection, causing continued deterioration of row crops and pastures. Farmers delayed seeding the 1984 winter wheat crop across the southern Plains, hoping to get rain. Farmers had 5 to 7 days available for fieldwork in nearly all regions. Soil moisture supplies were very short to short from the southern Plains eastward to Virginia, adequate in the West, and mostly short to adequate in all other areas. Seeding the 1984 winter wheat crop reached 8% completion, trailing the normal in most States. Spring wheat was 98% combined, 12 points ahead of the average. Corn harvesting got underway in the Corn Belt. Soybean harvesting began on a limited basis in Illinois. Cotton picking started in the Southeast and continued active in Texas. Sorghum harvesting moved northward into eastern Kansas and into the Low Plains of Texas. Rice was 30% harvested, 7 percentage points behind both last year and the average. Harvesting of fall vegetables became more widespread. Apple picking gained momentum. Dry conditions caused further deterioration of pastures and producers continued supplemental feeding in most areas.

**SMALL GRAINS:** The 1983 winter wheat harvest was virtually complete. In the 15 major producing States, seeding of the 1984 crop was 8% complete, equaling last year, but trailed the 13% average. Planting was underway in all States, except California, Illinois, Missouri, and Ohio, where growers begin seeding at a later date. Washington was the only State ahead of schedule. Progress ranged from 1% seeded in Indiana to 37% in Washington. Dry conditions delayed seeding from Kansas to Texas. Kansas growers had seeded 2% of their acreage, Oklahoma producers seeded 5%, and Texas growers had planted 3%.

Spring wheat was 98% combined, 11 points ahead of a year ago and 12 points ahead of the average. Open weather allowed Idaho producers to combine 26% of their acreage during the week. Progress was equal to or ahead of normal in all States.

**CORN:** Corn continued in mostly poor to fair condition, except in the West, northern Plains, Great Lakes States, and the lower Delta where fair to good conditions prevailed. In the 17 major producing States, 98% of the crop has reached the dough stage, 85% the dent stage, and 35% reached maturity. Normally, about 97% has reached the dough stage, 77% is in or past the dent stage, and 32% is mature. Crop maturity was slightly behind normal in the eastern Corn Belt and Southeast, but was nearly a third ahead of normal in the western Corn Belt. Harvesting was just getting underway in the Corn Belt; progress ranged from 2% in Iowa to 14% in Missouri. Harvesting was active further south, ranging up to 66% complete in Georgia.

**SOYBEANS:** Showers benefited soybeans around the Great Lakes, and in portions of the Corn Belt and the Southeast. However, fields elsewhere continued to be stressed by hot, dry conditions. Stands continued in poor to fair condition in most producing areas. Growers across the northern Plains maintained heavy insecticide spraying. In the 18 major producing States, 95% had set pods and 18% were dropping leaves. Leaf droppage was ahead of normal in the Corn Belt; equal to normal in the Southeast, and trailing the average in the south-central States. Harvesting was 3% finished in Illinois.

**COTTON:** Cotton was in mostly fair condition, except in Missouri and South Carolina where poor conditions were reported. In the 14 major producing States, bolls were opening on 30% of the acreage, 8 points behind the average for this date. Harvesting was 2% finished in Georgia and 12% complete in Texas. Prolonged dryness and high temperatures in Texas caused early opening of bolls and droppage in dryland fields. Increasing boll weevil populations have caused light damage and growers increased spraying.

**SORGHUM:** Hot, dry weather continued to stress dryland fields and reduce yields across the southern Plains. Kansas producers began salvaging grain sorghum as silage and forage. The crop was in poor to fair condition, except in Colorado and Texas where conditions were mostly fair to good. In the 7 major producing States, 95% of the crop was headed, 65% was turning color, and 36% was mature. This compares with 97% headed, 57% turning color, and 35% mature a year earlier. Harvesting was just getting underway in eastern Kansas and was 63% complete in Texas. The Texas harvest moved into the Low Plains.

**OTHER CROPS:** Tobacco topping and harvesting was very active. Kentucky burley growers cut 36% of their crop, which North Carolina producers had cut 15%. Harvesting was 97% complete in Georgia.

Peanuts were in mostly fair to poor condition across the Southeast. Showers benefited fields in portions of the Southeast. Harvesting became more widespread; progress ranged from 3% dug in Texas to 18% dug in Georgia.

Rice harvesting gained momentum in the southern producing region but had not begun in California. In the 5 major producing States, 30% of the crop was harvested, 7 points behind both last year and the average. The Texas harvest was 98% complete.

**VEGETABLES:** Summer crop harvesting neared completion in northern regions as fall vegetable picking increased. Potato vine-killing was active in Maine. Irrigation supplemented light showers in Florida's vegetable areas. Land preparation and planting of winter vegetables remained very active. In Texas, growers actively applied preplant irrigation. California producers harvested a wide variety of crops. The processing tomato harvest was past its peaks, but continued with heavy volumes.

**FRUITS AND NUTS:** Peach picking neared completion while apple harvesting gained momentum. Florida's citrus groves continued in excellent condition with limited irrigation. Some fruit began showing color. Grapefruit packing is expected to begin soon. California's raisin-lay was nearly complete with ideal drying conditions. Tree fruit harvesting began slowing. Almond harvesting was active, while walnut gathering was just beginning.

**PASTURES AND RANGES:** Pastures and ranges were in poor to fair condition east of the Rocky Mountains. Livestock received supplemental feed but weight gains were low due to the warm weather. Arkansas producers continued to lose poultry because of the heat. Livestock moved to lower elevations in the West.

**CROP PROGRESS**

FOR WEEK ENDING SEPT 11, 1983

CORN % DOUGH			CORN % DENT			CORN % MATURE			COTTON % BOLLS OPENING						
	1983	1982	AVG.		1983	1982	AVG.		1983	1982	AVG.				
COLO	92	88	84	COLO	59	52	55	COLO	7	6	8	ALA	27	47	36
GA	100	100	100	GA	100	100	100	GA	99	99	99	ARIZ	60	65	65
ILL	100	100	100	ILL	94	94	88	ILL	40	56	50	ARK	50	67	41
IND	100	100	100	IND	90	95	80	IND	30	50	25	CALIF	35	40	40
IOWA	100	89	97	IOWA	88	64	77	IOWA	50	13	28	GA	44	42	55
KANS	97	95	97	KANS	65	70	80	KANS	35	30	45	LA	33	65	50
KY	99	100	100	KY	82	92	88	KY	26	44	39	MISS	51	90	72
MICH	100	100	100	MICH	65	70	72	MICH	10	30	18	MO	70	62	48
MINN	99	95	96	MINN	86	69	70	MINN	20	6	11	N MEX	10	35	21
MO	100	94	89	MO	96	84	79	MO	58	36	39	N C	72	57	56
NEBR	100	90	97	NEBR	85	45	70	NEBR	15	2	15	OKLA	5	1	15
N C	100	100	100	N C	99	98	100	N C	86	90	88	S C	72	58	65
OHIO	100	100	100	OHIO	90	95	75	OHIO	35	55	30	TENN	40	40	21
PA	97	95	95	PA	56	57	56	PA	8	4	8	TEX	20	23	29
S DAK	91	84	91	S DAK	75	48	74	S DAK	33	22	34	14 STATES	30	39	38
VA	99	99	100	VA	86	89	91	VA	74	74	74				
WIS	85	72	90	WIS	64	41	65	WIS	38	16	48				
17 STATES	98	93	97	17 STATES	85	73	77	17 STATES	35	30	32	THESE 14 STATES PRODUCED 99% OF THE 1982 COTTON CROP.			

THESE 17 STATES PRODUCED 93% OF THE 1982 CORN CROP.

THESE 17 STATES PRODUCED 93% OF THE 1982 CORN CROP.

THESE 17 STATES PRODUCED 93% OF THE 1982 CORN CROP.

RICE % HEADED			RICE % HARVESTED			SORGHUM % HEADED			SPRING WHEAT % HARVESTED						
	1983	1982	AVG.		1983	1982	AVG.		1983	1982	AVG.				
ARK	98	98	96	ARK	5	16	13	COLO	91	96	95	IDAHO	79	82	79
CALIF	80	85	88	CALIF	0	0	0	KANS	90	90	95	MINN	99	92	97
LA	98	98	98	LA	67	77	81	MO	92	96	95	MONT	95	70	70
MISS	98	98	97	MISS	5	15	21	NEBR	100	100	100	N D	99	87	84
TEX	100	100	100	TEX	98	100	99	OKLA	97	95	99	S DAK	100	100	100
5 STATES	95	96	96	5 STATES	30	37	37	S DAK	95	100	100	5 STATES	98	87	86

THESE 5 STATES PRODUCED 98% OF THE 1982 RICE CROP.

THESE 5 STATES PRODUCED 98% OF THE 1982 RICE CROP.

7 STATES 95 97 98

THESE 5 STATES PRODUCED 96% OF THE 1982 SPRING WHEAT CROP.

SOYBEANS % SETTING PODS			SOYBEANS % DROPPING LEAVES			SORGHUM % COLORING			WINTER WHEAT % PLANTED						
	1983	1982	AVG.		1983	1982	AVG.		1983	1982	AVG.				
ALA	94	98	96	ALA	7	8	NA	COLO	47	30	43	CALIF	0	0	0
ARK	80	92	87	ARK	11	7	13	KANS	40	30	55	COLO	21	17	32
GA	93	96	92	GA	16	16	14	MO	70	73	68	IDAHO	8	11	8
ILL	100	100	100	ILL	34	34	24	NEBR	85	35	70	ILL	0	0	0
IND	100	100	99	IND	20	35	15	OKLA	75	75	85	IND	1	1	1
IOWA	100	100	100	IOWA	22	6	17	S DAK	72	58	69	KANS	2	5	10
KANS	97	85	95	KANS	30	5	15	TEX	75	78	83	MO	0	2	0
KY	88	93	90	KY	12	23	15	7 STATES	65	57	71	MONT	10	5	10
LA	96	96	95	LA	7	13	13	SORGHUM % MATURE				NEBR	20	20	25
MICH	100	100	100	MICH	10	35	17		1983	1982	AVG.	OHIO	0	0	0
MINN	100	100	100	MINN	21	13	25	COLO	5	4	8	OKLA	5	5	10
MISS	86	97	97	MISS	2	7	14	KANS	10	4	15	OREG	2	4	3
MO	94	90	92	MO	20	3	4	NEBR	10	0	9	S DAK	34	29	37
NEBR	100	100	100	NEBR	15	1	8	OKLA	15	25	35	TEX	3	8	14
N C	81	88	83	N C	1	0	0	S DAK	10	13	14	WASH	37	28	23
OHIO	100	100	100	OHIO	20	30	20	7 STATES	36	35	40	15 STATES	8	8	13
S C	82	91	92	S C	1	4	6	THESE 7 STATES PRODUCED 90% OF THE 1982 SORGHUM CROP.				THESE 15 STATES PRODUCED 80% OF THE 1982 WINTER WHEAT CROP.			
TENN	98	100	87	TENN	3	9	7								
18 STATES	95	97	96	18 STATES	18	15	NA								
THESE 18 STATES PRODUCED 94% OF THE 1982 SOYBEAN CROP.				EXCL. STATES WITH NA	18	15	15								
				THESE 18 STATES PRODUCED 94% OF THE 1982 SOYBEAN CROP.											

NA - NOT AVAILABLE

## State Summaries of Weather and Agriculture

These summaries provide brief descriptions of crop and weather conditions important on a national scale. More detailed data are available in Weather and Crop Bulletins published each Monday by SRS State Statistical Offices in cooperation with the National Weather Service.

**ALABAMA:** Temperatures above normal. Rainfall 0.50 to over 2.00 in.

Soil moisture very short to adequate. Fieldwork 5.4 days. Corn harvested 56%, 1982 64%, average 52%. Soybeans: Setting pods 94%, 1982 98%, average 96%; dropping leaves 7%, 1982 8%; turning yellow 20%, 1982 25%, average 32%. Cotton bolls open 27%, 1982 47%, average 36%. Peanuts dug 7%, 1982 26%, average 11%. Sorghum harvested 36%, 1982 32%. Activities: Harvesting corn, sorghum, peanuts, and hay; pest control on field crops; routine care of livestock and poultry; and land preparation for fall crops. Conditions: Corn, soybeans, cotton, peanuts, and pasture mostly fair; sorghum and livestock fair.

**ALASKA:** Temperatures were much colder than normal averaging in the low to mid fifties in northern valleys and rainfall was near normal with most areas receiving around 0.33 in. Temperatures averaging near sixty were near to above normal in southern valleys and little or no rain fell. Seasonal rainfall amounts are near normal in northern valleys and still below normal in southern valley.

Variable weather conditions allowed haying and small grain harvest activity for 2 to 7 days in the Tanana Valley and from 4 to 7 days in the Matanuska Valley. Matanuska Valley growers utilized the more favorable weather to cut down more of the second crop of hay and start small grain harvesting. Most barley fields in ripe stage barley combining was 5% complete versus 15% last year. The second crop of hay making ranged from zero in most farms to complete on other farms. The potato harvest showed increased momentum on early varieties. Ground moisture supplies were surplus in the Tanana Valley and mostly adequate in the Matanuska Valley.

**ARIZONA:** High pressure brought mostly fair weather. Precipitation confined eastern two-thirds. Amounts around 0.50 in. in north central, southeastern. Temperatures 8° above normal at Phoenix to normal at Grand Canyon.

Cotton good progress, in average condition. Bolls open on 60% of acreage, compared 65% last year, average. Some spraying still underway most areas for pink bollworms, tobacco bud worms. Corn, sorghum crops average condition. Corn ranged from tasseling, being mature enough to harvest later this month. Sorghum ranged from heading, turning color, some harvest underway. Alfalfa average condition, harvest continuing, delayed by rain some areas. Planting fall lettuce, cauliflower, broccoli continued all producing areas. Cantaloups, honeydews, watermelons for fall harvest normal progress. In Cochise County dry onion harvest about complete, harvest green chiles beginning. Cantaloup harvest underway, volume still small. Lemon harvest normal rate Yuma County. Very limited picking other areas. Grapefruit harvest limited scale. Citrus groves good condition.

**ARKANSAS:** Hot and dry weather for the eighth consecutive week. Temperatures 3 to 9° above normal. Highest 102° low down to 56°. Widely scattered showers middle of week. Most rainfall 1.46 in. Most stations no rain.

Suitable fieldwork days 6.9. Progress of crops slow. Soil moisture short. Cotton fair condition; boll opening 50%, 67% 1982, 41%

average. Rice condition good; headed 98%, 98% 1982, 96% average; ripe 22%, 54% 1982, 47% average; harvested 5%, 16% 1982, 13% average. Soybeans poor to fair condition; blooming 96%, 96% 1982, 94% average; setting pods 80%, 92% 1982, 87% average; turning yellow 15%, 17% 1982, 20% average. Shedding leaves 11%, 7% 1982, 13% average. Corn fair; harvested 66%, 73% 1982, 49% average. Sorghum fair; harvested 31%, 52% 1982, 41% average. Pastures poor, feeding hay to cattle, heat related poultry losses.

**CALIFORNIA:** Warm and dry over the entire State. Weekly mean temperatures almost uniformly above normal. Extreme north end of the Sacramento Valley and northern border interior had means below normal, and interior north border localities had some mornings with low temperatures below freezing. One hundred plus daytime readings in the Central Valley, Coastal Valleys, as well as southeast Desert area.

Generally favorable weather aided development of field crops. Rice progressing normally, 80% of the fields have headed, compared to 85% a year ago and an average of 88%. Cotton development highly variable, irrigation about finished, 35% of the fields have open bolls, compared to 40% last year and an average of 40%. Field corn continues to dry out. Early bean fields being cut and windrowed. Treatment of worms and mildew active in sugarbeet fields. Sorghum in various stages of development. Alfalfa continues to be cut, dried, and baled. Apple harvest continues, midseason varieties. Haas avocado harvest 3/4th complete, San Diego County. Dates sprayed in Riverside County for mildew and beetles. Figs harvested in San Joaquin Valley. Raisin lay nearly complete-excellent drying weather. Growers working trays, some raisins picked up. Fresh Thompson seedless harvest winding down. Emperor grape harvest underway. Winery shipments active except some coastal areas, just beginning. Tree fruit harvest slowing. Cling peach harvest complete. Prune harvest continuing, Sacramento Valley. Quality problems causing heavy gradeout, Valencia oranges. Almond harvest active, large number of blank nuts, and insect damage. Pistachio harvest underway. Walnut growers preparing orchards, spraying for husk fly, harvest just beginning. Artichoke harvest light. Snap bean harvest continues. Cauliflower, broccoli harvest active Central Coast; planting south, San Joaquin Valley. Harvesting cantaloup San Joaquin Valley, west Riverside. Quality problems from rain west Riverside. Carrot harvest active Salinas Valley, light Kern District. Celery harvest active Central Coast, planting Central and South Coast. Lettuce harvest moderate Central Coast. Fall crop emerging San Joaquin Valley. Pumpkin harvest for canning underway. Light digging Norgold potatoes Tulelake. Digging summer crop Riversie. Sweetpotato harvest still light. Processing tomato harvest past peak but still heavy. Ranges dry with high fire danger. Supplemental feeding necessary some areas, maintaining livestock until new fall feed begins. Movement livestock from summer grazing areas continues. Bee hives being moved foothill districts over wintering.

**COLORADO:** Cool with some scattered showers early in the week with warm conditions prevailing during midweek. The weekend again turned cooler with scattered showers. Temperatures were near normal.

Winter wheat in good condition: 21% seeded, 17% last year, 32% average; 5% emerged, 3% last, 8% average. Corn in good to very good condition: 92% dough, 88% last year, 84% average; 59% dented, 52% last year, 55% average; 7% mature, 6% last year, 8% average. Sorghum in good condition: 91% headed, 96% last year, 95% average; 47% turning color, 30% last year, 43% average; 5% mature, 4% last year, 8% average. Barley, oats, and spring wheat in good to very good condition: Barley 79% harvested, 76% last year, 35% normal. Spring wheat 51% harvested, 46% last year, 66% average. Statewide 6.5 days suitable for fieldwork. Topsoil and subsoil very short to short in southeast, mostly adequate elsewhere. Range and pasture poor in southeast, good to very good elsewhere.

FLORIDA: Scattered thundershowers occurred on the 5th. Rain amounts were 0.25 in. or less except for local 1.00 to 2.00 in. across the Panhandle, showers very spotty, remainder of week light with amounts under 0.10 in. Maximum temperatures relatively hot, reaching into the 90's, averaging 2° above normal.

Soil moisture adequate south, short to adequate most other areas of the State. Corn, tobacco harvest complete. Peanut harvest increasing. Hay harvest active dry areas. Early soybeans fair to good, some fields maturing. Late beans suffering from dry weather, poor pod set. Cotton opening rapidly. Sugarcane good to very good condition. Pasture conditions show variable improvement, Panhandle, conditions continue good, south; mostly fair, north. Cattle remain in mostly good condition. Citrus condition near excellent. Few showers, some irrigation primarily on early maturing varieties. Some fruit showing color break. Grapefruit testing continues, packing expected to start this week or next. Hot weather with light, scattered showers prevailed in vegetable areas. Some irrigation in drier locations. Planting of eggplant, celery, cucumbers, peppers, squash, tomatoes continue very active. Snap bean, cabbage plantings increasing. Sweet corn seeding continues in the Everglades. Land preparation, laying of plastic remain active.

GEORGIA: Heavy rainfall northern third; weekly totals averaged 2.00 to 3.00 in. Light to locally moderate elsewhere, averaging near 0.50 in. Cool early in week, otherwise rather warm. Weekly temperatures near normal except 2 to 4° above normal southeast. Sparse rainfall over 19th and 11th from isolated showers. Average less than 0.05 in. except near 0.25 in. extreme south. Temperatures near normal.

Soil moisture 5% very short, 40% short, 51% adequate, 4% surplus. Average days suitable for fieldwork 4.6. Main activities harvesting, preparing land for small grain planting, spraying for insects and disease. Corn condition 12% very poor, 18% poor, 46% fair, 21% good, 3% excellent; 99% mature this year, last year and average; 66% harvested, 76% last year, 70% average. Cotton condition 7% very poor, 20% poor, 53% fair, 20% good; 44% bolls open this year, 42% last year, 55% average; 2% harvested, this year and last, 6% average. Peanut condition 5% very poor, 20% poor, 53% fair, 20% good; 18% dug, 37% last year, 24% average; 7% threshed, 20% last year, 13% average. Soybean condition 8% very poor, 30% poor, 47% fair, 14% good; 99% blooming this year and average, 100% last year; 93% setting pods, 96% last year, 92% average; 16% dropping leaves, this year and last, 14% average. Rains continue to benefit late planted soybeans. Spraying for foliage and pod feeding insects. Tobacco 97% harvested, 100% last year, 99% average. Apple condition 7% very poor, 29% poor, 43% fair, 18% good,

3% excellent; 71% picked, 84% last year, 74% average. Pecan condition 5% very poor, 11% poor, 52% fair, 31% good. Hay crops 4% very poor, 19% poor, 54% fair, 22% good. Pastures 3% very poor, 17% poor, 53% fair, 26% good. Hay crops and pastures have greatly benefited from rains. Livestock and poultry received relief of cooler weather brought by rains.

HAWAII: Weather generally favorable for crop development in the State. Days were mostly dry with some showers at midweek. Vegetable supplies adequate. Cabbage and cucumber harvesting active. Banana supplies steady. Papaya supplies light. Sugar harvesting normal. Pineapple harvesting steady. Pastures fair to good condition. Rains beneficial.

IDAHO: A southwesterly flow of air aloft dominated the weather at the beginning of the week bringing sub-tropical moisture and heavy showers to the southeast while keeping the rest of the State generally dry. A Pacific frontal system brought cooler temperatures and some showers to north on 7th. Average temperatures were near to a little above normal in the southeast and below normal elsewhere. Grangeville had the greatest departure from normal with the temperature 6° cooler than normal. Most rain fell in the southeast with total amounts generally 0.10 in. or less. The only station to report greater than average rainfall was Malad with 0.71 in. which is nearly 0.50 in. more than normal.

Farmers reported 6.3 days suitable for fieldwork. Winter wheat was 94% harvested versus 96% last year and 91% average. Winter wheat seeding was 8% complete compared to 11% for 1982 and 8% average. Spring wheat was 79% harvested versus 82% last year and 79% average. Barley climbed to 77% harvested versus 75% a year ago and 78% average. Potatoes were 3% dug compared to 2% last year and 2% average. Dry beans were combined on 16% of the acreage versus 17% for 1982. The second cutting of alfalfa was 94% finished while the third cutting topped 11%. Silage corn was being harvested with 8% of the crop in. Livestock were in good shape as were the pastures and ranges.

ILLINOIS: Temperatures 5 to 12° above normal. Precipitation none to 2.14 in. widely scattered.

Soil moisture 91% short, 9% adequate. Days suitable fieldwork: 6.8. Corn dented 94%, 1982 94%, average 88%; mature 40%, 1982 56%, average 50%; harvested 3%, 1982 2%, average 2%; condition 4% good, 45% fair, 48% poor, 3% failure. Soybeans 63% turning yellow, 1982 66%, average 52%; 34% shedding leaves, 1982 34%, average 24%; 3% harvested, 1982 1%, average 1%; condition 6% good, 64% fair, 30% poor. Alfalfa hay 3rd crop 94% cut, 1982 82%, average 82%; condition 2% good, 37% fair, 57% poor, 4% failure. Pasture condition 5% good, 16% fair, 60% poor, 19% failure. Livestock condition fair.

INDIANA: Average temperatures 7 to 12° above normal. Highs upper 80's to lower 90's. Scattered showers 0.50 in. or less typical. Heavier totals northwest sector. Lightest amounts east central.

Fieldwork averaged 6.7 days. Topsoil and subsoil moisture short. Corn condition poor. Corn 30% mature, 1982 50%, average 25%, corn 90% dented, 1982 95%, average 80%. Corn 100% in dough, 1982 100%, average 100%. Soybeans 20% dropping leaves, 1982 35%, average 15%. Soybeans 100% setting pods, 1982 100%, average 99%. Tobacco 15% harvested, 1982 50%, average 45%. Wheat land 30% plowed, 1982 35%, average 35%. Winter wheat 1% planted, 1982 1%, average 1%. Silos 30% filled, 1982 40%, average 30%. Pastures poor.

IOWA: Temperatures 6 to 9° above average. Extremes: 38 and 100°. Precipitation continues to average below normal over most of the State. However, a cold frontal passage on the 6th brought precipitation over most of State with amounts of 0.50 to 1.00 in. common over the northeast half of the State.

Extensive hail damage to property and crops was also reported the night of the 6th over portion of the western third of the State. Days suitable 6.1. Corn in dent stage 88%; 64% last year; 77% normal; mature 50%; 13% last year; 28% normal; harvested 2%; 0% last year; 0% normal. Soybeans with leaves turning 60%; 25% last year; 58% normal; leaves shedding 22%; 6% last year; 17% normal; mature 14%, 4% last year; 6% normal. Third crop alfalfa hay harvested 80%; 83% last year; 82% normal. Top-soil moisture 69% short; 31% adequate. Subsoil moisture 71% short; 29% adequate.

KANSAS: Precipitation averaged little or none northwest; southwest, 0.20 to 0.50 in. elsewhere. Temperatures averaged 77° northwest, 80 to 82° elsewhere, 9 to 11° above normal.

Corn 97% dough, 95% last year, 97% average; 65% dent, 70% last year, 80% average; 35% mature, 30% last year, 45% average; 4% harvested, 3% last year, 5% average. Sorghum 90% headed, 90% last year, 95% average; 40% colored, 30% last year, 55% average; 10% mature, 4% last year, 15% average; 2% harvested, 1% last year, 3% average. Salvaging corn, sorghum for silage, forage. Grain harvest underway east. Soybeans 97% podded, 85% last year, 95% average; 30% dropping leaves, 5% last year, 15% average. Wheat 2% planted, 5% last year, 10% average. Alfalfa hay 3rd cut 96% complete, 4th cut 30% complete. Soil moisture short Statewide. Pasture and range severe drought to fair. Supplemental feeding continues, cattle move off grass. Days suitable for fieldwork: 6.5.

KENTUCKY: Warm and dry. Temperatures averaged 5 to 10° above normal with near record high temperatures noted on 9th and 10th. Precipitation varied from none to little. Western quarter had no rain. Scattered thunderstorms dropped 0.10 to 0.50 in., far short of normal.

All days suitable for fieldwork. Hot and dry. Crop generally poor. Soil moisture 81% critically short, 19% short. Tobacco harvest active. Burley 36% cut, last year 66% and average 60%. Corn harvest beginning with 26% acreage mature, 44% in 1982 and 39% average. Approximately 82% in dent stage or beyond. However, considerable acreage has little grain and more than usual acreage will be utilized for silage. Soybeans 88% setting pods or beyond, 93% last year and 90% average. Soybeans beginning to reach maturity with 12% dropping leaves, 23% last year and 15% average. Pastures poor. Many farmers feeding hay.

LOUISIANA: Rainfall averaged 0.50 in. north, 2.50 to 4.50 in. south. Temperatures +2° to -1° of normal. High 98°, low 64°.

Corn harvest 83%, 86% 1982, 79% average. Cotton open bolls 33%, 65% 1982, 50% average. Condition poor to fair. Rice headed 98%, 98% 1982 and average. Rice ripe 79%, 83% 1982. Rice harvested 67%, 77% 1982, 81% average. Condition fair to good. Soybeans blooming 99%, 100% 1982. Soybeans setting pods 96%, 96% 1982, 95% average. Soybeans turning color 21%, 30% 1982, 29% average. Soybeans shedding 7%, 13% 1982, 13% average. Condition fair. Sorghum turning color 92%, 98% 1982. Sorghum ripe 81%, 92% 1982, 74% average. Sorghum harvested 73%, 80% 1982, 54% average. Sugarcane planted 28%, 38% 1982, 25% average. Condition fair to good. Sweetpotatoes harvested 42%, 39%

1982, 41% average. Condition fair to good. Pecans rated fair to good. Vegetables rated fair. Hay final cutting 59%, 54% 1982. Pastures and livestock rated fair to good.

MARYLAND AND DELAWARE: Maryland: Very light scattered showers in west and lower eastern shore. Temperatures 6 to 7° above normal.

Days suitable for fieldwork: 7.0. Corn: dough stage 95%, 1983 & 82: corn dented, 75% this year, 80% last year; corn mature, 40%, 1983 and 1982. Corn grain harvest just beginning. Silage corn; 45% cut, 40% last year. Soybeans, 95% podded, 35% turned. Last year soybeans 85% podded, 15% turned. Shedding leaves on the lower eastern shore. Tobacco 90% bloomed and 75% topped. Harvest 50% this year, 70% last year. Alfalfa hay is 95% cut, 100% 1982. Fourth cutting of alfalfa hay 40%, 50% last year. Small grains being seeded in north. Apples 25% picked equal to 1982. Peach harvest 90% picked, 100% last year.

Delaware: No rain with temperatures 4 to 10° above normal. High temperatures in mid to upper 90's and lows in the mid 50 to mid 60's.

Days suitable for fieldwork: 7.0. Corn in dent at 90%, mature at 45%, equal to last year, dented corn 70% 1983, 80% last year. Corn silage 50% cut 1982, 1983. Soybeans, 95% podded, 15% turned, just beginning to shed leaves. Last year, soybeans 90% podded, 30% turned, nonshedding. Third cutting of alfalfa hay 35% complete, 30% last year. Other hay 25% cut. Vegetable harvest being completed rapidly. Apples 40% picked, peaches 90% picked. Last year, apples 50% picked, peaches 100% picked.

MICHIGAN: Above normal temperature continued for another week. Average temperatures were 10° above normal. Precipitation was light again over the eastern portion of the lower Peninsula, while most of the western and central areas has moderate rainfall amounts.

Statewide 6.0 days were suitable for fieldwork. Corn 100% in dough, 100% last year, 100% average. Corn 65% dented, 70% last year, 72% average. Corn 10% mature, 33% last year, 18% average. Corn silage 10% harvested, 5% last year, 11% average. Dry beans 5% harvested, 10% last year, 23% average. Soybeans 100% setting pods, 100% last year, 100% average. Soybeans 10% shedding leaves, 35% last year, 17% average. Fruit and vegetable yields lower because of the drier season. Third cut hay 50% baled, 55% last year, 44% average.

MINNESOTA: Temperatures averaged 2 to 8° above normal. High: 96°. Low: 36°. Precipitation averaged 0.27 to 0.31 in. below normal for southwest and south central, near normal for northwest and southeast, and 0.26 to 0.65 in. above normal elsewhere. Greatest reported weekly total: 2.36 in.

Much of field corn crop almost past frost danger, but plants have been weakened by corn borers, strong winds or abnormal delay of harvest could cause heavy losses. Soybeans also have matured rapidly. Short plants with pods near ground expected to present harvest difficulties in southern most areas. In southwest, localized caterpillar infestation of soybeans was controlled by aerial spraying. Topsoil moisture: 8% very short, 18% short, 67% adequate, and 7% surplus. Days suitable for fieldwork: 5.2. Corn 99% dough; 1982 95%, normal 96%; denting 86%, 1982 69%, normal 70%; mature 20%, 1982 6%, normal 11%. Soybeans 74% turning yellow, 1982 64%, normal 69%; shedding leaves 21%, 1982 13%, normal 25%.

MISSISSIPPI: Temperatures 5° above normal. Extreme 98°. Scattered rainfall with totals ranging from 2.40 in. to no measurable rain.

Soil moisture short to very short in northern half of State. Short to adequate in southern half. Fieldwork 6.0 days suitable, 5.9 1982, 5.2 average. Soybeans 86% podding, 97% 1982, 97% average; 2% dropping leaves, 7% 1982, 14% average; condition fair to poor. Cotton 51% open bolls, 90% 1982, 72% average; 0% harvested, 1% 1982, 0% average; condition fair to poor. Rice 98% headed, 98% 1982, 97% average; 5% harvested, 15% 1982, 21% average; condition fair to good. Corn fair; 22% harvested, 35% 1982, 34% average. Sorghum 24% harvested, 34% 1982, 30% average. Sorghum silage 70% harvested; corn silage 87%; watermelons 99%. Pasture condition fair to poor.

MISSOURI: Hot temperatures continued, averaging 8 to 11° above normal. Scattered thundershowers occurred throughout the week. The heaviest rainfall was in the Ozarks where 0.50 to 1.00 in. rain was reported. In the rest of the State only spotty showers occurred.

Days suitable for fieldwork: 6.4. Corn 96% dented, 84% last year and 79% normal. Corn 58% mature, 36% last year and 39% normal. Corn 14% harvested, 8% last year and 9% normal. Grain sorghum 92% headed, 96% last year and 95% normal. Sorghum 42% mature, 49% last year and 39% normal. Soybeans 94% setting pods, 90% last year and 92% normal. Beans 37% coloring, 17% last year and 20% normal. Cotton 70% with open bolls, 62% last year and 48% normal. Cotton condition 100% poor. Soybean condition 1% good, 26% fair and 73% poor. Grain sorghum condition 33% fair and 67% poor. Pasture condition 5% fair and 95% poor. Topsoil moisture supplies 100% short.

MONTANA: Continued very warm in east, cooler in west. Temperatures 2 to 4° above normal in east and 5° below normal west. Precipitation late in week left nearly 1.00 in. in scattered areas of central, north central and northeast, and little or none in parts of south central and southeast.

Soil moisture short. Winter wheat harvest done. Harvest completion other crops this year, last year, average: Spring wheat 95, 70, 70; barley 90, 75, 70; oats 90, 80, 75; corn silage 15, 0, 10; dry beans 20, 0, 5; second cutting alfalfa 85, 75, 75. Winter wheat seeding 10, 5, 10. Days suitable for fieldwork: 6.0. About 15% cattle and sheep moved from summer ranges.

NEBRASKA: Temperatures 5 to 8° above normal. Precipitation light due to widely scattered showers.

Hot, dry, windy conditions pushed fall harvested crops toward maturity. Corn mostly good to fair. Dent 85%, 45% last year and 70% average; mature 15%, 2%, 15%. Soybeans fair; leaves turning color 50%, 15%, 45%; shedding leaves 15%, 1%, 8%. Sorghum mostly fair to good; turning color 85%, 35%, 70%; ripe 10%, 0%, 9%. Harvest just beginning. Winter wheat seeded 20%, 20%, 25%. Alfalfa third cutting 80%, 80%, 80%. Pasture and range feed supplies short to adequate. Topsoil moisture short. Subsoil moisture mostly short to adequate. Days suitable for fieldwork 6.9.

NEVADA: Dry week over most of State. End of week brought first freezing temperatures. Some areas north recorded first freeze early part of week. Lows in the 20's. Mountain City had 23°. Overall temperatures slightly above normal for week thanks to a warm spell in middle of week.

Alfalfa and wild hay harvests active most areas. Dry weather during week aided harvesting remaining acreages hay, small grains, alfalfa seed, potatoes, and various vegetables.

Cattle starting to come down from high elevation areas. Sales slow to date.

NEW ENGLAND: Temperatures averaged 8 to 12° above normal. Precipitation light and scattered throughout the week.

Soil moisture supplies short to adequate. Average of 6.2 days suitable for fieldwork. Silage corn 5% chopped. Maine potato growers vine-killing. Rhode Island potatoes 80% dug. Tobacco harvest complete.

NEW JERSEY: Temperatures averaged 10° above normal. Extremes were 46° on the 9th and 102° on the 7th and 12th. Weekly rainfall averaged none north, central and 0.01 in. south. The heaviest 24-hour total 0.07 in. on the 6th to 7th. Estimated soil moisture, in percent of field capacity, averaged 61% north, 49% central and 24% south. Four inch soil temperatures today averaged 75° north, 80° central and 80° south.

Fieldwork: 7.0 days suitable. Irrigation in use on fall vegetables. Summer vegetable supplies tapering off. Irish potato harvest continues. Sweetpotato digging light. Good peach volume continues. Apples coloring well. Field corn and soybeans poor to fair condition. Rainfall needed.

NEW MEXICO: Average temperatures 5 to 7° above normal most locations. Minimum temperature 36°, northern mountains. Maximum temperature 104°, southeastern Plains. Scattered thundershowers most days. Rainfall totals generally 0.20 to 0.60 in.

Cotton rated good. Bolls opening: 10% current, 35% last year, 21% average. Alfalfa rated good, 3rd cutting mostly complete, 4th cutting over 50%. Irrigated grain sorghum good condition, most of crop headed, 80% dough. Dryland crop deteriorating, poor condition. Corn good condition, mostly headed, 80% dough. Chile harvest continues, potato harvest complete. Peanuts growing well. Fall lettuce being thinned. Cattle, sheep good condition. Supplemental feeding heavy, only average gains. Ranges poor to fair. Higher elevations show better growth.

NEW YORK: Temperatures 7 to 12° above normal, rain mostly well below normal. Dry for past month.

Silage corn harvest, dry bean harvest, winter wheat planting underway. Harvests of oats, second cutting alfalfa nearing completion. Third cutting alfalfa 54% done, 43% 1982, 43% average. Apples maturing rapidly. Slow coloring of Hudson Valley, Lake Champlain apples due to weather. Slow coloring delaying McIntosh harvest. Cahutaqua-Erie area harvest of early Concord and French-American grape varieties underway. Harvest of sweet corn, snap beans, early onions active. Cabbage harvest started.

NORTH CAROLINA: Temperatures above normal. Precipitation well below normal Statewide.

Soil moisture: 52% very short, 38% short, 10% adequate. Days suitable for fieldwork: 6.3. Condition: Tobacco 15% poor, 76% fair, 9% good, corn: 55% poor, 39% fair, 6% good. Cotton: 36% poor, 61% fair, 3% good. Peanuts: 26% poor, 74% fair. Soybeans: 54% poor, 40% fair, 6% good. Sorghum: 45% poor, 53% fair, 2% good. Apples: 7% poor, 68% fair, 25% good. Sweetpotatoes: 27% poor, 64% fair, 9% good. Phenological stages: Cotton setting bolls: 100%, 1982 100%, average 100%. Cotton opening bolls: 72%, 1982 57%, average 56%. Corn soft-dough: 100%, 1982 100%, average 100%. Corn dent 99%, 98% 1982, average 100%. Corn mature: 86%, 1982 90%, average 88%. Soybeans blooming: 97%, 1982 100%, average 96%. Setting pods: 81%,

1982 88%, average 83%. Harvests: Flue-tobacco: 79%, 95% 1982, average 87%. Corn for grain: 21%, 1982 29%, average 32%. Corn for silage: 71%, 1982 76%, average 77%. Apples: 19%, 1982 61%, average 37%. Burley tobacco: 15%, 1982 24%, average 46%. Major farm activities: Flue-cured tobacco harvest marketing, and irrigation, spraying soybeans and peanuts, corn for grain harvest, corn for silage cutting, hay making, land preparation and harvesting truck crops.

**NORTH DAKOTA:** Series of low pressure systems moved across the region. Temperatures averaged 1 to 5° above normal. Extremes from 38 to 94°. Scattered showers and thunderstorms continued over most areas. Most precipitation was 0.86 in. northeast. Average rainfall from 0.05 in. above normal northeast to 0.27 in. below normal northwest.

Cool temperatures and weekend showers ended the prolonged hot spell. Harvest activity was interrupted but small grain combining was virtually complete. Flax and corn silage harvests ahead of normal pace. Harvest of other row crops in early stages with normal progress. The percent harvested compared to last year and the average: hard red spring wheat 99, 87, 84; durum 98, 81, 74; flax 63, 32, 33; dry beans 19, 14, 19; potatoes 9, 13, 12; soybeans 4, 0, 3; corn grain 1, 0, 0. Sunflower development ahead of normal. Stem weevil causing stalk breakage in many areas. Bracts brown on 34%, last year 14%, average 18%.

**OHIO:** Temperatures 6 to 9° above normal highs. Mid 80's northeast to low 90's south central. Lows upper 50's to low 60's. Precipitation north 0.50 to 1.50 in., south 0.00 to 0.30 in.

Showers relieved moisture stress. Not enough to benefit most crops. Corn and soybeans fair, harvest started. Plowing for winter wheat. Limited corn lodging from storms. Soybeans setting pods 100%, 100% 1982, 100% average; turning 55%, 70% 1982, 45% average; dropping leaves 20%, 30% 1982, 20% average. Corn dough 100%, 100% 1982, 100% average; dent 90%, 95% 1982, 75% average; mature 35%, 55% 1982, 30% average. Days favorable: 6.0. Pasture condition poor to fair. Soil moisture 72% short, 28% adequate.

**OKLAHOMA:** Average temperatures ranged from 5° above normal southeast to 11° subnormal west central. Precipitation ranged from 0.32 Panhandle; 0.86 north central to zero elsewhere.

Hot, dry weather continued to stifle crop growth and development. Crop prospects greatly reduced on cotton and soybeans due to prolonged drought conditions. Pastures and ranges continued to deteriorate. Cattle remain in good to fair condition. Wheat seeding began. Sorghum headed: 97%, 95% 1982, 99% average; coloring: 75%, 75% 1982, 85% average; mature: 35%, 25% 1982, 15% average. Cotton setting bolls: 99%, 95% 1982, 98% average; open bolls: 5%, 1% 1982, 15% average. Wheat seeded: 5%, 5% 1982, 10% average.

**OREGON:** Dry weather prevailed except over the northwest late in the week. Temperatures near normal except in the extreme east 2 to 4° below norm; and on the southern coast 3 to 8° above normal.

Winter wheat harvest complete except in isolated areas of high country in the east. Planting of 1984 crop just underway with 2% complete compared with 4% last year and 3% average. Bentgrass and red clover harvest somewhat behind normal because of recent

wet weather; field burning also behind. Haying nearing completion with much rain damage in remaining fields. Mint harvest still underway. Bartlett pear picking complete in Hood River Valley. Anjou harvest beginning in lower valley and in the southwest. Elberta peach and prune harvest has begun. Evergreen blackberry picking nearly complete, other varieties already complete. Cranberry harvest to begin about September 20th and filbert harvest about September 30th. In north and east, Norgold potato digging wrapping up; digging of Russets beginning. Russets also being dug in Klamath Basin. Onion harvest still in full swing, as was sweet corn for processing. Livestock, range and pasture condition good.

**PENNSYLVANIA:** Hot and dry week. Temperatures averaged 7 to 10° above normal. Eastern counties received little to no precipitation. Western counties less than 0.50 in. with the exception of the northwest where around 1.00 in. was recorded. Extremes 98 and 38°.

Days suitable: 6.0. Moisture mostly short. Activities: Plowing: baling straw; seeding barley, wheat, rye and alfalfa; making hay; and harvesting tobacco, corn silage, green chop, potatoes, cabbage, tomatoes, apples, peaches, and grapes. Tobacco 54% harvested, last year 66%. Potatoes 46% harvested, last year 46% harvested. Corn silage 21% harvested, last year 17%. Corn for grain 56% dented or past and 8% mature; last year 57% dented or past and less than 5% mature; average 56% dented or past and 8% mature. Fall plowing 47% complete; last year 52%; average 49%. Barley 13% planted, last year 21%. Wheat 7% planted, last year 19%. Third crop alfalfa 79% harvested, last year 67%. Fourth crop alfalfa 16% harvested, last year 21%. Second cutting clo-tim 91% harvested, last year 93%. Quality of hay made mostly good. Feed from pastures mostly below average.

**PUERTO RICO:** Island average rainfall 0.60 in. or 1.22 in. below normal. Highest weekly total 2.59 in. Highest 24-hour total 1.40 in. Temperature average about 84 to 81° on Coasts and 76 to 75° Interior Divisions. Mean station temperature ranged from 83.7 to 68.7°. Extremes 96 and 57°.

**SOUTH CAROLINA:** Hotter and drier than usual with high temperatures in 90's. Widely scattered thunderstorms with light precipitation.

Soil moisture short, 5.7 days for fieldwork. Corn virtually mature, extremely variable yields includes failure, condition poor to fair, 49% harvested behind 70% year ago, 64% average. Cotton "cutting out" growth, some self defoliating in hot, dry stress; open bolls 72%, 58% last year, 65% average; 2% harvest ahead of year ago and average; condition poor. Soybeans include shedding blooms, pods due to stress and premature leaf drop; some reblooming but frost poses threat; 82% setting pods, 91% year ago, 92% average; leaf drop at 1%, 4% year ago, 6% average. Tobacco 93% harvested, completed year ago, average. Fall vegetable conditions fair, heat preventing earliest tomato bloom from setting fruit. Pastures poor to fair as a few greened up after rainfall.

**SOUTH DAKOTA:** Average temperatures 2 to 8° above normal. Extremes 103 and 30°. Amounts from 0.50 to 1.50 in. Northwest, west central, southwest and southeast generally less than 0.50 in.

Scattered showers and warm temperatures allowed rapid crop development. Crop conditions rated mostly good north central, northeast and east central. Elsewhere, crops mostly fair.

Evidence of corn borer damage now showing with increased stalk breakage. Woolly bear caterpillar continues to cause damage, especially in soybeans; over 50% of soybean acreage sprayed in several eastern counties. Western regions very dry. Range; pasture and crops suffering from prolonged drought and heavy grasshopper infestations. Above normal precipitation north central, northeast, and east central regions. Major activities were winter grain seeding, haying, cutting silage, and cutting wood for winter. Days suitable for fieldwork: 5.7. Spring wheat harvested 100%, 1982 100%, average 100%. Sorghum headed 95%, 1982 100%, average 100%. Sorghum coloring 72%, 1982 58%, average 69%. Sorghum mature 10%, 1982 13%, average 14%. Corn dough 91%, 1982 84%, average 91%. Corn dent 75%, 1982 48%, average 74%. Corn mature 33%, 1982 22%, average 34%. Winter wheat seeded 34%, 1982 29%, average 37%.

TENNESSEE: Temperatures continued above normal while rainfall continued to be very limited with no stations reporting more than 1.00 in.

Days suitable for fieldwork: 6.1. Soil moisture 2% adequate, 27% short, 71% critically short. Corn mature 70%, 1982 66%, average 56%; harvested 10%, 1982 6%, average 9%. Cotton open bolls 40%, 1982 40%, average 21%; picked 0%, 1982 1%, average 3%. Soybeans setting pods 98%, 1982 100%, average 87%; shedding leaves 3%, 1982 9%, average 7%. Tobacco harvested: Burley 55%, 1982 74%, average 72%; dark-fired 41%, 1982 56%, average 66%; dark air-cured 42%, 1982 77%, average 71%. Wheat sown 2%, 1982 7%, average 9%. Pastures 85% poor, 15% fair. Livestock receiving supplemental feed in many areas.

TEXAS: Showers, thunderstorms Coastal Plains, South, East Texas. Late week afternoon thunderstorms developed Panhandle. Rainfall amounts generally light. Average temperatures around 5° above normal northern third of State, remainder near normal.

Crops: Scattered showers over much of State, amounts not significant enough to relieve drought stricken areas. Dryland cotton, sorghum yields affected, may decline further if current conditions continue. Dry weather also delayed land preparation, planting of small grains. Only a small percentage of wheat "dusted" in at this time. Cotton development continued. Prolong dryness, high temperatures causing early opening of bolls, droppage in dryland fields. Irrigated fields considerably better, currently benefiting from warm temperatures. Populations of boll weevils continue to increase, damage remains light. Current condition is 62% of normal compared with 63% a year ago. About 2% is reported excellent, 2% good, 61% fair and 15% poor. Sorghum harvest active, fields maturing rapidly under hot, dry conditions. However, these conditions continue to stress dryland fields, have reduced yields. Harvest moving at rapid pace as far north as Low Plains. Irrigated fields continue to develop rapidly, good yields expected. Midge problems on the rise, damage not significant. By week's end condition was 67% of normal compared with 92% a year ago. Reported condition was 7% excellent, 30% good, 49% fair, 13% poor, and 1% failure. Corn harvest continued considerably ahead of previous years. Dry conditions promoted early maturing, early harvest. Irrigated fields making excellent yields, production expected to be good in highly productive High Plains areas. Spider mite, corn borers causing limited damage. Peanuts making good growth. Dryland fields under moisture stress, still expected to produce well.

Irrigated fields in excellent condition. First cutting of rice almost complete, yields good despite damage caused by Hurricane Alicia. Flooding active for second crop. Soybeans growing rapidly, could use cooler temperatures, increased moisture for proper pod filling.

Cotton open bolls 20%, 23% 1982, 29% average; harvested 12% 1982 14%, 14% average. Rice harvested 98%, 100% 1982, 99% average. Sorghum headed 98%, 100% 1982, 100% average; turning color 75%, 78% 1982, 83% average; mature 66%, 69% 1982, 71% average; harvest for grain 6%, 66% 1982, 68% average. Wheat planted all purposes 3%, 8% 1982, 14% average. Corn harvested for grain 64%, 47% 1982, 43% average. Peanuts harvested 3%, 10% 1982, 15% average. Sunflowers harvested 2%, 7% 1982, 7% average. Oats planted for all purposes 3%, 2% 1982, 8% average.

Commercial vegetables: Rio Grande Valley, land preparation, pre-plant watering continued. Citrus groves in excellent condition. Fruit size, quality expected to be good. East Texas, harvest of tomatoes, watermelons winding down. Sweetpotato harvest continues, good quality being reported. San Antonio-Winter Garden area, land preparation active. Pre-plant irrigation continuing. Trans-Pecos region, showers caused splitting of cantaloups, watermelons. Tomato harvest getting underway. Plains, harvest of bell peppers, cucumbers, some watermelons continued. Carrots developing well. Pecans developing rapidly. Hot, dry weather has increased droppage.

Range and livestock: Range, pasture conditions continued to suffer despite showers. Scattered showers early week did little to aid dry pastures. Growth of grasses, weeds stalled, grazing virtually non-existent. Portions of coast, east, northeast only areas were moisture levels adequate. Livestock condition remains good.

UTAH: Scattered thunderstorms except Dixie Division. Accumulations generally heavy north central and northern mountains, light to heavy other divisions. Minimum temperatures 6° above normal over State. Maximums 5° above normal south, normal north.

Fieldwork active with 5.7 days suitable. Major activities included hay harvest, barley and spring wheat cleanup, and fruit picking. Third crop hay 33% cut. Barley 79% combined, and spring wheat 84%. Winter wheat seeding on schedule with 32% of acreage planted. Peach and pear picking near the halfway point. Apples and dry onions just beginning.

VIRGINIA: Very hot and dry. Temperature averages were around 10° above normal. Afternoon highs averaged in the 90's over all but the southwest. Drought conditions continued with only isolated showers or thunderstorms occurring.

Very hot temperatures continued. Topsoil moisture declined to 100% short despite some widely scattered thunderstorms in southeast. Days suitable for fieldwork 5.8. Corn condition remains very poor. Dent 86%, 89% average; mature 74%, 74% 1982, 74% average. Harvest continues active. Grain harvest reached 13% complete, 64% 1982, 48% average. Soybean condition stable, still rated poor. Spraying for corn ear worm continues. Setting pods 90%, 91% last year. Flue pulling 67% complete, 84% last year, 70% average; burley 30% cut, 65% 1982, 55% average; fire 72% harvested, 90% 1982, 73% average; sun 46% harvested, 72% last year, 66% average. Peanut condition remained poor but stable. Spraying for leaf spot and spider mites still active. Some corn ear worm spraying. Livestock feed continues short.

WASHINGTON: Rare low pressure system in upper atmosphere became entrenched over State during week. As result, very cool air flow kept temperatures on both sides of Cascades below normal. Also cloudiness across State combined to drop average temperatures. Vancouver and Ephrata both 5° below normal while Ellensburg 6° below normal. Precipitation heavier in southwest Interior of west. Over 1.00 in. of rain fell on Vancouver. Rainfall in east remained light and mostly confined to mountainous areas. Central portion of east only had trace of rainfall, although Ellensburg managed to get 0.04 in. of rain during week.

Wheat, barley, pea, and lentil harvesting complete. Preparations made for fall seeding grains. Russet potato harvest begins September 15th to 20th. Mint harvesting continues. Hop harvest nearly complete. Third cutting alfalfa hay and alfalfa seed still being harvested. Golden delicious apple variety continues to be picked and put into long-term storage. Early red delicious apple harvesting finished. Long-term storage red delicious apples start in week. D'Anjou pear harvesting proceeding as usual. Harvesting of peaches and plums about over. Westside, late blueberries continue to be picked. Renovation of strawberry fields complete. Cleanup continues in raspberry fields. Harvesting fresh market vegetables, including corn, carrots, beet, potatoes, Summer squash, broccoli, cauliflower, cucumbers, beans, and spinach, continues. Gardener also harvesting dill, beet seed, and cut flowers. Sweet corn processing continues. Some areas having problem with late blight in potatoes and tomatoes. Eastside, vegetable seed harvesting well along. Carrot seed harvest progressing rapidly. Livestock in good condition and returning to farm pasture. Fall calving in progress. Pastures and ranges look good. Green chopping and silage making continues. Winter wheat planted 37%, 23% 1982, 23% average.

WEST VIRGINIA: Temperatures continued to average well above normal across the State. Range 36 to 98°. Rainfall well below normal across the State. Range none to 0.48 in.

Soil moisture fell to very short to short throughout the State. Days suitable for fieldwork averaged 5.5. The main activities were hay harvesting, maintenance, silage chopping and pasture clipping. The remaining oats in fair condition with 99% harvested at 83% of normal. The harvest was complete at this time in 1982. Corn in fair to poor condition with 3% pre-silked, 31% silked and 66% dough stage; 24% silked and 76% dough stage in 1982. Tobacco in fair condition with 98% topped, 52% harvested at 76% of normal; 85% topped and 71% harvested in 1982. Pastures in poor to fair condition. Hay in fair to poor condition. The 2nd cutting was 92% complete at 71% of normal, 86% complete in 1982. Fruit in fair to poor condition. The peach harvest 79% complete at 83% of normal, 95% complete in 1982. Gardens in fair condition. Dry conditions continue. Feeding of hay due to poor pasture condition, common across the State. Some corn being cut for silage instead of grain.

WISCONSIN: Weather full of contrast. A cold front passed through on 5th. It brought storms with hail and gusty winds over the north on 6th. Temperatures rose to 80's and 90's on 8th and 9th. Another cold front on 10th brought more storms. Cool pleasant weather ended week. Heaviest amounts of rainfall, 2.00 in. in north, least amounts central, east central 0.40 in. Temperatures; hottest 93° in Milwaukee 9th and 10th, coolest 37° west of Ashland and Harrison on 7th.

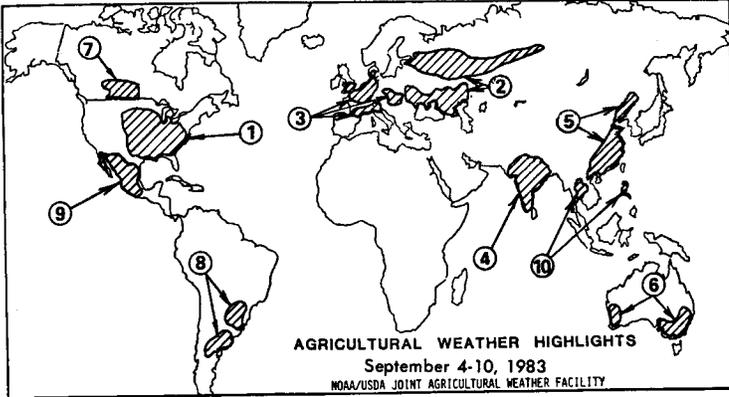
Crops look good. Corn acreage percent dough 85%, 72% last year and 90% average; 64% denting compared to 41% last year, average 65%. Corn safe from frost 38%, last year 16%, 48% average. Third crop hay, 39% harvested compared to 40% last year. Pasture condition 83% of normal. Tobacco, fruit and vegetable harvest active. Days suitable for fieldwork: 5.0.

WYOMING: Temperatures above normal highs in 80's and 90's. Nights cool lows in 30's and 40's. West and south above normal precipitation while amounts in north central and northeast below average.

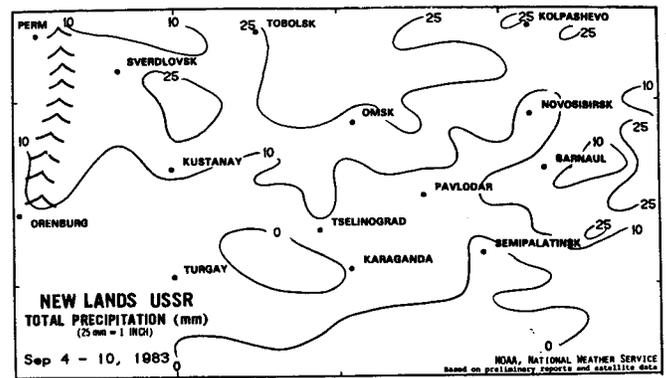
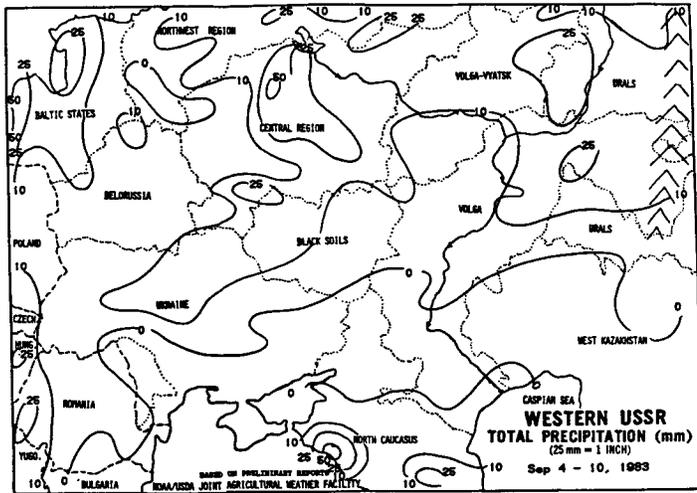
Topsoil moisture adequate 60% of State. Days suitable for fieldwork: 6.0. 1984 winter wheat crop seeded: 45%; normally 58%. Barley: 10% mature; 80% harvested. Spring wheat: 15% mature; 80% harvested. Oats: 25% mature; 70% harvested. Corn: milk 10%; dough 40%; dented 45%; mature 5%. Dry beans 55% windrowed, 15% harvested. Alfalfa second cutting 75% complete, third cutting underway few areas. Other hay harvest 90% complete. Livestock, ranges, pastures mostly good.

# International Weather and Crop Summary

September 4 to 10

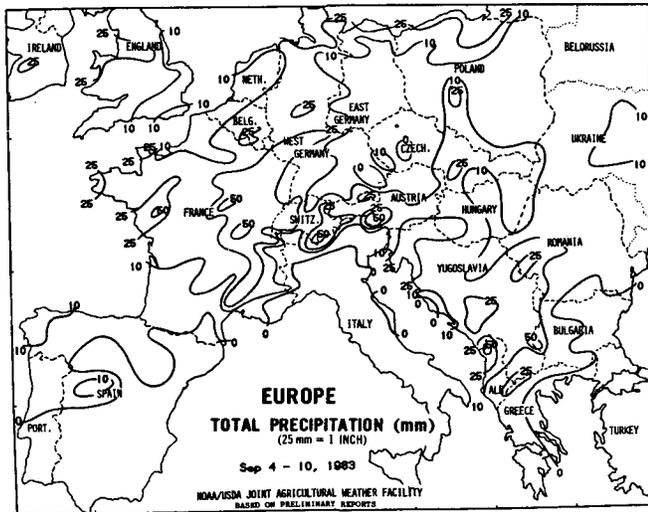


1. UNITED STATES ... Rains over parts of the Corn Belt and Southeast benefit late soybeans, while dryness delays wheat planting over the central and southern Plains. Abnormally hot weather east of the Rockies saps soil moisture and deteriorates immature crops, but aids harvesting. Cooler air moves through northern areas late in the week.
2. USSR ... Unseasonably cool, wet weather delays harvest activity across the north. Rain needed to replenish topsoil moisture for winter wheat planting in south European USSR.
3. EUROPE ... Showers improve moisture conditions in England, northern France, West Germany, Czechoslovakia, and Hungary. Generally dry weather favors grain maturation in southern France and northern Italy.
4. SOUTH ASIA ... Monsoon rains continue to favor most rice areas. Unfavorably dry weather is depleting soil moisture reserves in the cotton and groundnut region.
5. EASTERN ASIA ... Heavy rain and high wind from Typhoon Ellen possibly damages coastal rice areas. Heavy rain is unfavorable for maturing cotton. Favorable weather in the northeast this week for maturing corn and soybeans.
6. AUSTRALIA ... Showers cover the entire grain belt as wheat advances through vegetative growth.
7. CANADA ... Rain delays crop harvest, especially in the north; harvesting is nearly complete in the south but lagging in the north.
8. SOUTH AMERICA ... Heavy rain halts coffee/citrus harvest in Sao Paulo and vicinity; sub-freezing low temperatures in Argentina's wheat area are likely burning early wheat growth.
9. MEXICO ... Light rains help but more are needed over the southern Plateau corn belt, northeastern citrus, and western mountain watersheds. Tropical heavy rains drench the southern coast and extend into Central America.
10. SOUTHEAST ASIA ... Typhoon Ellen brings moderate rain to the northern Philippines and northern Vietnam. Moderate precipitation benefits late planted rice in Thailand.

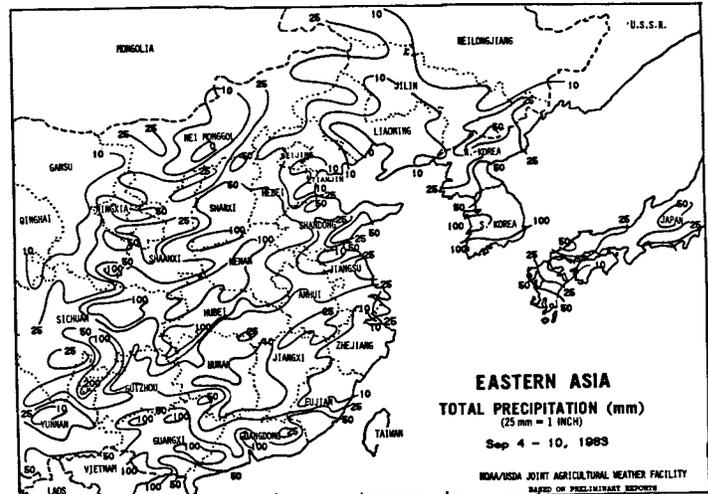


USSR...A storm system developed in the north-central Ukraine at midweek and intensified as it moved northeastwardly through the Central Region. As a result, most of the significant precipitation was confined to northern grain producing areas which may have created some harvest delays, but favored the early establishment of winter rye. Light rain in the north central Ukraine and western Black Soils improved topsoil moisture for emergence and early establishment of the winter grain crop. In contrast, mostly dry weather continued to cover major grain producing areas in southeast Western USSR. The dry weather is now prompting concern about adequate topsoil moisture for winter wheat planting. The optimum time for winter wheat planting across the south is September 10-20.

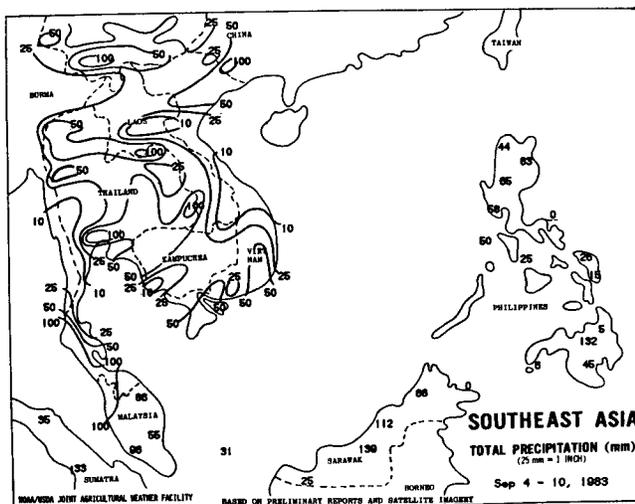
In the New Lands, northern spring grain areas continued to receive showers, creating further delays in harvest activity. In contrast, dry weather across the south allowed the harvest to progress at a rapid pace. Weekly temperatures were below normal over much of the region.



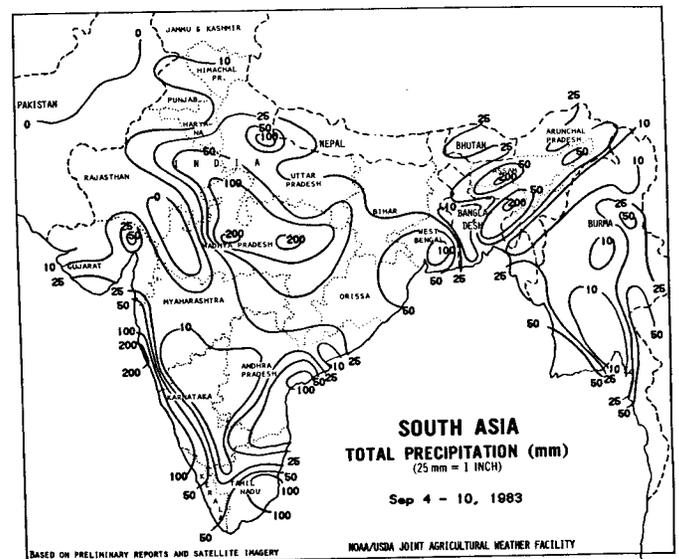
**EUROPE...**Light rain spread eastward from England through northern France into West Germany. The rain increased topsoil moisture for winter grain planting and benefited those sugar beets which are in the late-filling stage. Generally dry weather returned to corn producing areas of southern France and northern Italy, favoring grain maturation and aiding harvest activity. Elsewhere, unfavorably dry weather continued over East Germany and western Poland but moisture conditions improved in eastern Czechoslovakia and Hungary. In the southeast, a generally dry weather pattern in Romania and Bulgaria favored maturing crops and aided the harvest. Weekly temperatures were above normal in the west and below normal in the east.



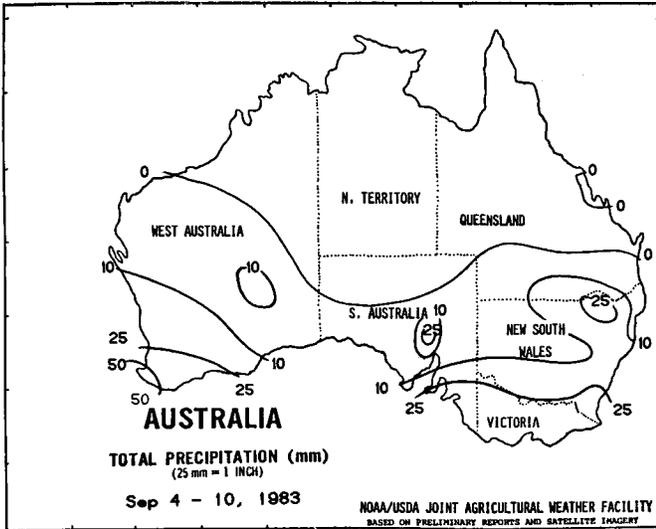
**EASTERN ASIA...**Typhoon Ellen entered southern China late in the week bringing heavy precipitation and high winds to coastal areas of Guangdong and Guangxi. Late double-cropped rice, now in the heading stage, was possibly damaged by localized flooding. The remaining rice area south of the Yangtze experienced below-normal rain. A band of moderate to heavy precipitation stretched from Sichuan to western Shandong. The moisture was unfavorable for maturing cotton, corn, and soybeans. However, slightly above-normal temperatures helped to dry soils in the North and South China Plains. Manchuria benefited greatly from a mostly dry week as corn and soybeans are maturing. Temperatures were well above normal but did not reach damaging levels.



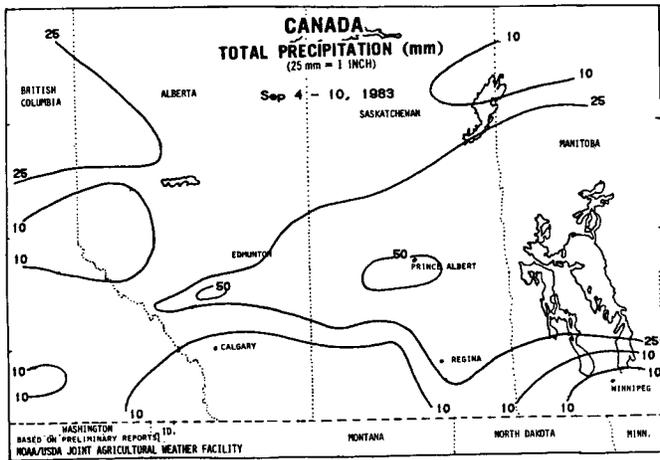
**SOUTHEAST ASIA...**Moderate precipitation and slightly above-normal temperatures covered most of Indochina this week. Laos and parts of Vietnam were relatively dry, but northern Vietnam received moderate rain from Typhoon Ellen. Earlier in the week Typhoon Ellen brought moderate to heavy precipitation and possibly damaging winds to the Philippines' northern corn area. Scattered showers benefited localized areas elsewhere in the Philippines. Rice in the late vegetative stage in Central Luzon was aided by the moisture. Most rice areas of Thailand received moderate to heavy precipitation, favoring the late planted rice. Maturing rice would benefit from drier weather. Relatively less rain aided maturing corn in the central portion of Thailand.



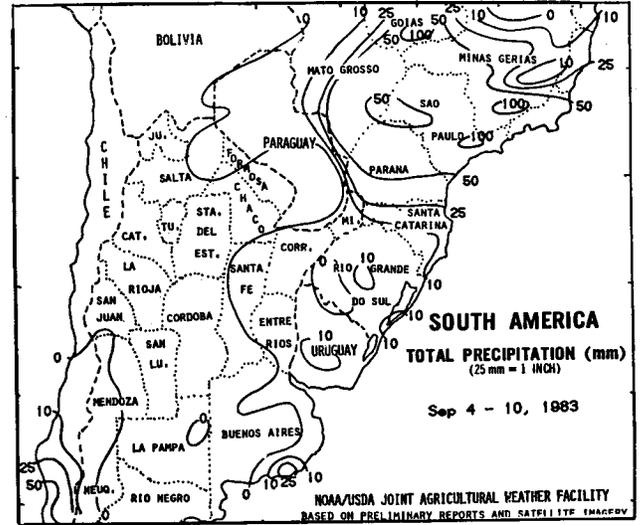
**SOUTH ASIA...**Monsoon rains continued to benefit rice areas of India this week. The heaviest rain fell in central and eastern Madhya Pradesh, favoring autumn rice in the heading stage. Significant precipitation also aided rice areas in West Bengal, Andhra Pradesh, Tamil Nadu, and the western coast. Winter rice in the late vegetative stage will need continued rains through the heading stage. Unfavorably dry weather covered nearly all of the cotton and groundnut area from Gujarat and western Madhya Pradesh southward. The crops are in the reproductive stage and soil moisture has not been replenished for nearly three weeks. Temperatures were slightly below normal this week, helping to reduce the crop moisture demand.



**AUSTRALIA...** Showers covered the entire grain belt maintaining moist topsoils as wheat advances through vegetative stages of development. Above-average weekly temperatures were generally promoting vigorous crop growth. Weather conditions remain mostly favorable for wheat, but the recent moisture in northern New South Wales may have aggravated the reported problem of stripe rust disease. Warm, dry weather is needed in this area to arrest the disease potential. Warm weather in southern Queensland aided grain filling and maturing of the early wheat crop which is expected to be harvested later in September. The wheat crop is nearing the reproductive cycle in northern crop areas.



**CANADA...** Substantial rain, in excess of 25 mm, covered much of the northern crop areas in the Prairie Provinces, while lighter showers fell in the south. The wetness delayed harvesting of spring wheat, rapeseed, and other crops, especially in the north. While the crop harvests have rapidly progressed in the south because of warm, dry weather, recent showers in the north have limited fieldwork. In Saskatchewan, reports indicate that nearly 95 percent of the wheat and rapeseed has been harvested in the south, but only 35 to 40 percent has been harvested in the north. Harvest progress is quite similar in Alberta and Manitoba. Weekly temperatures were near normal in the east but below normal in the west. Some scattered frost was reported in northern crop areas, but because most crops have reached or are nearing maturity the impact should be minimal. Crop quality is reported very good, especially in the south.



**SOUTH AMERICA...** Heavy rain moved into the northern wheat areas of Parana and the citrus/coffee areas of Sao Paulo, Minas Gerais and surrounding states. Weekly rainfall totals in excess of 50 mm covered the entire area, with scattered amounts greater than 100 mm likely causing excessive runoff. The wet weather interrupted the citrus harvest and all other fieldwork. Cool but favorably dry weather occurred over the wheat area of Rio Grande do Sul. The wheat harvest usually begins next month in Brazil. In Argentina, drier weather returned to most of the wheat areas following the earlier widespread rains. Topsoil moisture has improved considerably for wheat in vegetative growth. Cold weather moved into the region late in the week dropping low temperatures below freezing at numerous locations in Buenos Aires and La Pampa. Some frost-burned leaves likely occurred but warmer weather will rejuvenate growth.



**MEXICO...** Light to moderate rains falling over the southern Plateau corn belt and western mountains benefited immature crops and partially replenished reservoirs. Rains were also light over the northeastern citrus orchards, offering only temporary relief. Heavy rains drenched the southwestern coast as tropical weather systems were very active over the warm, Pacific waters. In contrast, prolonged dryness continued over the north-central region, stressing ranges and livestock.



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## September Crop Production Highlights

CORN FOR GRAIN production forecast at 4.39 billion bushels, down 16 percent from August 1 forecast and 48 percent below last year's record high. The 90 percent confidence interval for this production is 4.01 to 4.77 billion bushels.

SORGHUM GRAIN production forecast at 480 million bushels, down 15 percent from last month and down 43 percent from last year.

FEED GRAIN production (corn, sorghum, oats and barley combined) expected to total 142 million metric tons, down 44 percent from 1982.

SOYBEAN production forecast at 1.53 billion bushels, 33 percent smaller than record crop of 1982, 23 percent smaller than 1981. The 90 percent confidence interval for this production forecast is 1.43 to 1.64 billion bushels.

ALL WHEAT production forecast at 2.41 billion bushels, down 14 percent from 1982 record high.

The 90 percent confidence interval for this production forecast is 2.36 to 2.46 billion bushels. Winter wheat forecast at 1.98 billion bushels, 6 percent less than 1982. Durum wheat production forecast at 72.9 million bushels, down 51 percent from last year. Other spring wheat production at 358 million bushels, 35 percent below last year's record high.

FOOD GRAIN production (wheat, rye and rice) expected to total 70.9 million metric tons, down 16 percent from a year earlier.

ALL COTTON production forecast at 7.78 million bales, 35 percent below 1982 production. The 90 percent confidence interval for this forecast is 6.78 million bales to 8.77 million bales.

ALL TOBACCO production expected to total 1.36 billion pounds, 31 percent below the 1.98 billion pounds produced in 1982, 34 percent below the 1981 crop.

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U.S. DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration  
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Managing Editor . . . . . Don Haddock  
Meteorologists . . . . . Jim Williams  
Ray McInturff  
Lyle Denny  
Wes Byrd  
Dave Elson

Subscriptions (202) 447-7917 . . Cheryl Caleco

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