

# 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

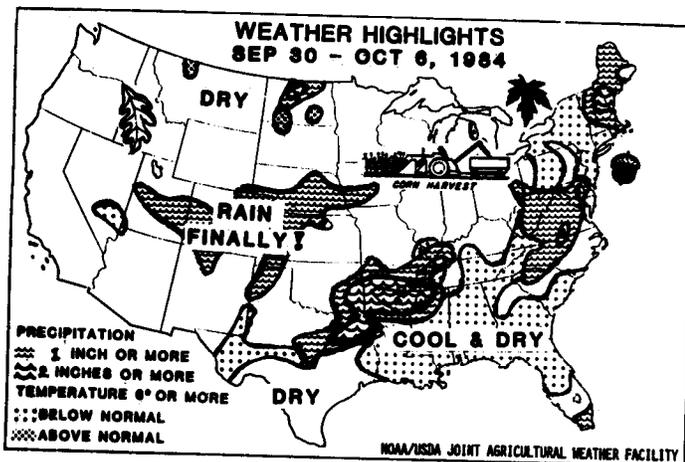
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Oct. 10, 1984

## National Weather Summary

September 30 to October 6



**WEDNESDAY...**Tropical moisture spread through the southern Rockies and into Nebraska, triggering light to moderate showers. Moisture was very beneficial from the Texas High Plains into western Nebraska. Light showers continued through New York and New England. Afternoon temperatures reached the eighties in the Plains through Nebraska.

**THURSDAY...**The tropical moisture continued to produce showers from central Texas into South Dakota. Widespread rain fell along the area but moderate amounts were confined to western Kansas and Nebraska. The warming trend continued through the Plains, but the East Coast States were quite cool.

**FRIDAY...**Showers fell through the Mississippi Valley, the central and northern Plains, and the central Rockies. Moderate amounts fell from eastern Oklahoma to eastern Nebraska, and across northern Arkansas to the Mississippi Delta. Morning temperatures cooled the northern States and the Northeast but were rather mild by mid-afternoon.

**SATURDAY...**The tropical moisture moved eastward, and was augmented by a warm moist flow from the Gulf of Mexico. Showers spread throughout the Mississippi River Valley, the lower Great Lakes area, and the northern Plains. Thunderstorms triggered severe weather and heavy downpours from northeastern Texas to northern Mississippi and western Tennessee. The rain provided needed moisture in the Delta but the severe weather damaged some crops. Another cold outbreak over the Northeast brought low temperatures in the twenties to New York and New England.

**HIGHLIGHTS:** Moisture from Tropical Storm Polo moved over the Southwest spreading moderate showers from the central Plateau into the central Plains. Later-week moisture from the Gulf of Mexico combined with the high level moisture producing violent thunderstorms from northeastern Texas through Arkansas, to northern Mississippi, and western Tennessee. Lighter showers fell throughout the Mississippi Valley, the northern Plains, and lower Great Lakes. Early-week moderate rain fell from northeastern Georgia through Virginia and Maryland, and through New England. At the beginning of the week, colder-than-normal weather covered most of the Rockies and the East, but temperatures warmed during the week. Late in the week another cold air outbreak covered the Northeast.

**SUNDAY...**Light to moderate showers spread from central New England through the Appalachians. The heaviest showers fell in the Piedmont areas from central Pennsylvania to northeastern Georgia. Only light showers fell in the very dry areas in most of Georgia, Alabama, and Mississippi.

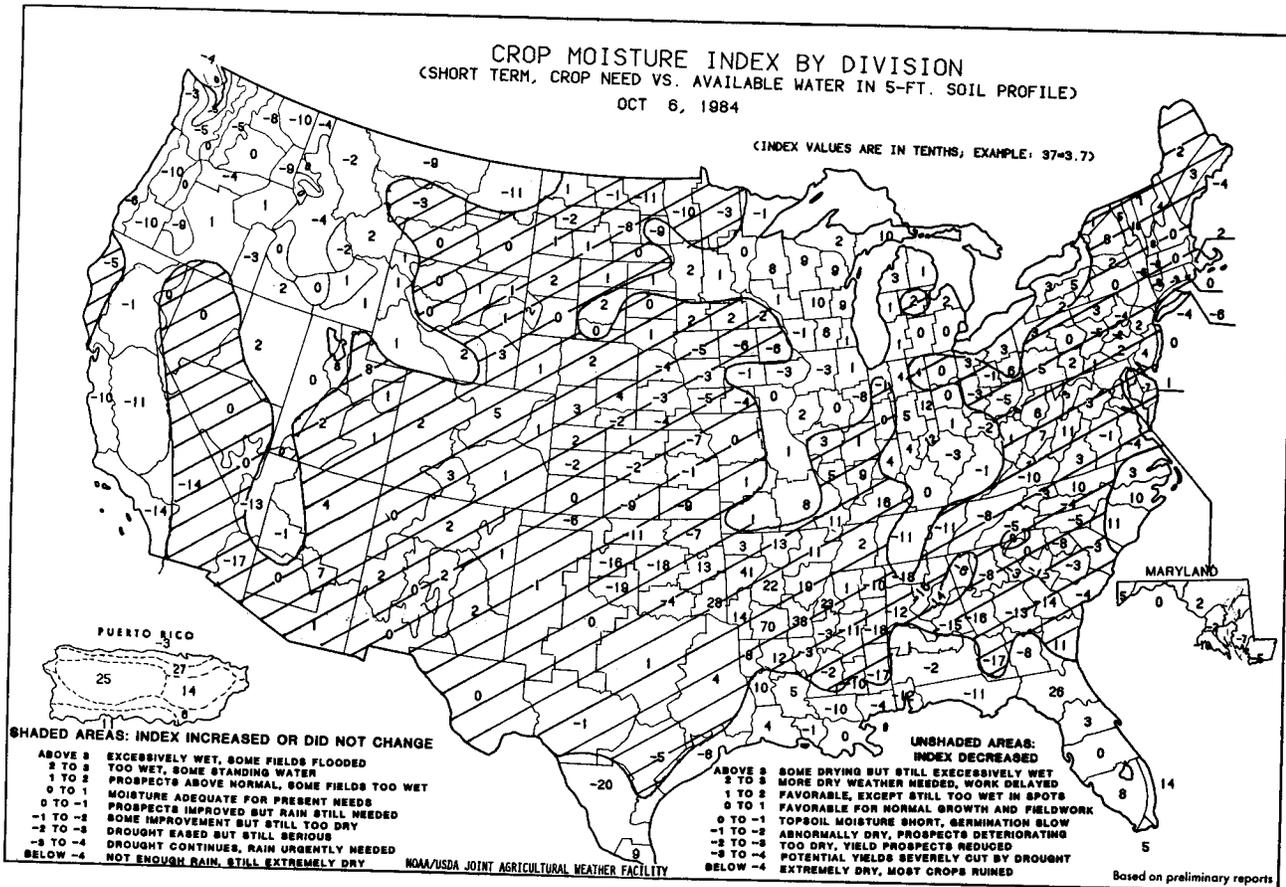
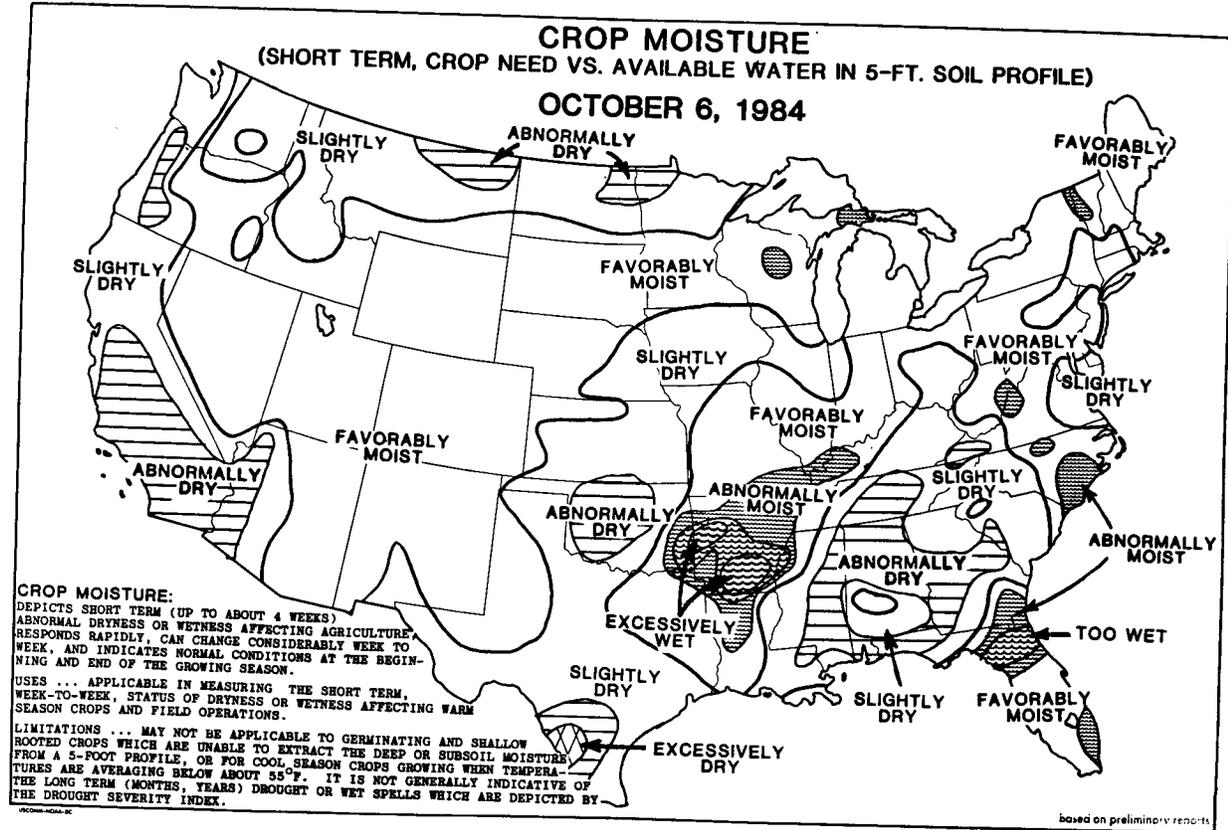
**MONDAY...**Showers covered the Northeast with heaviest amounts falling along the coast from Pennsylvania through New England. Some showers fell over the central Plateau in the West. Freezing temperatures reached southward through the Plains to parts of the Texas Panhandle.

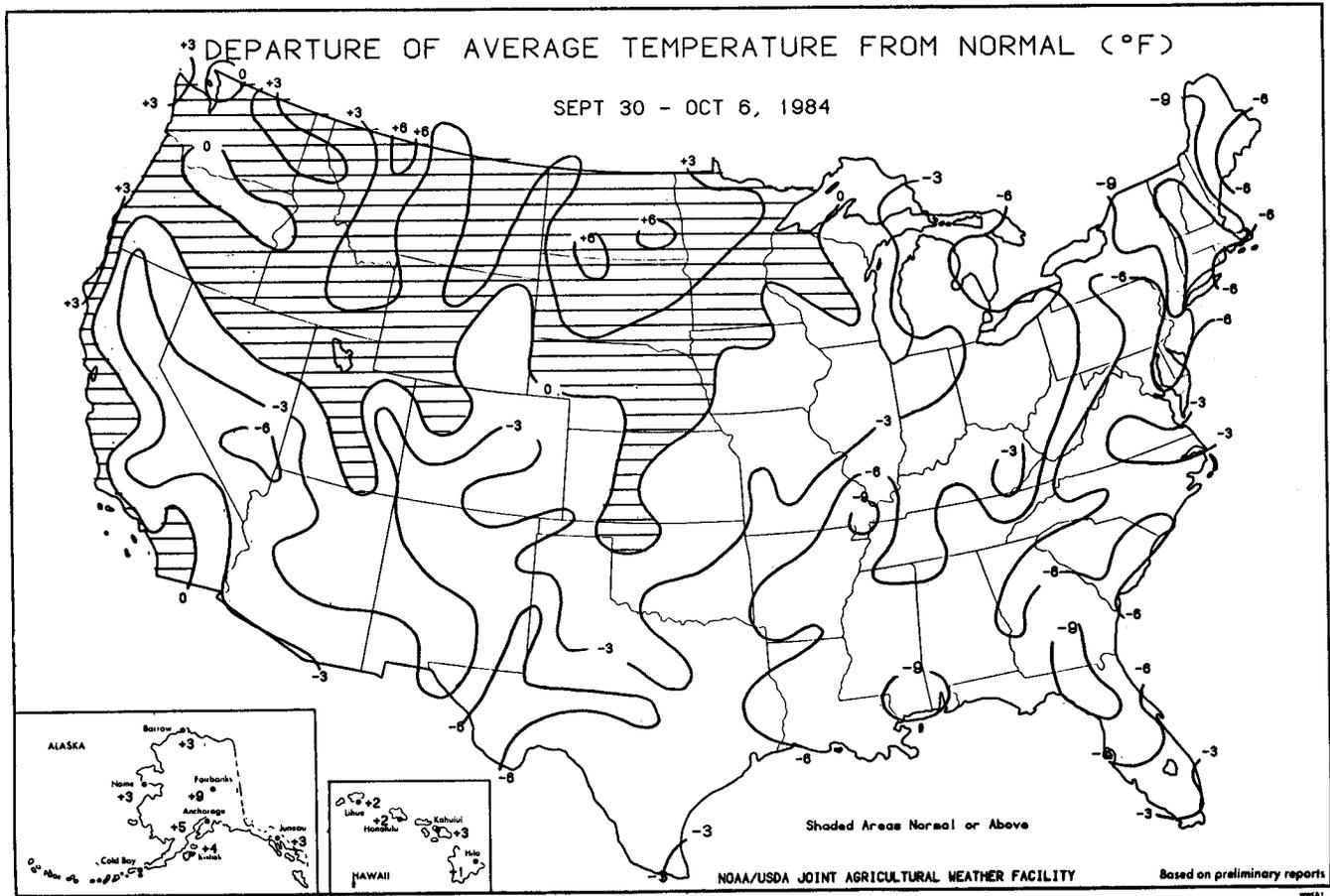
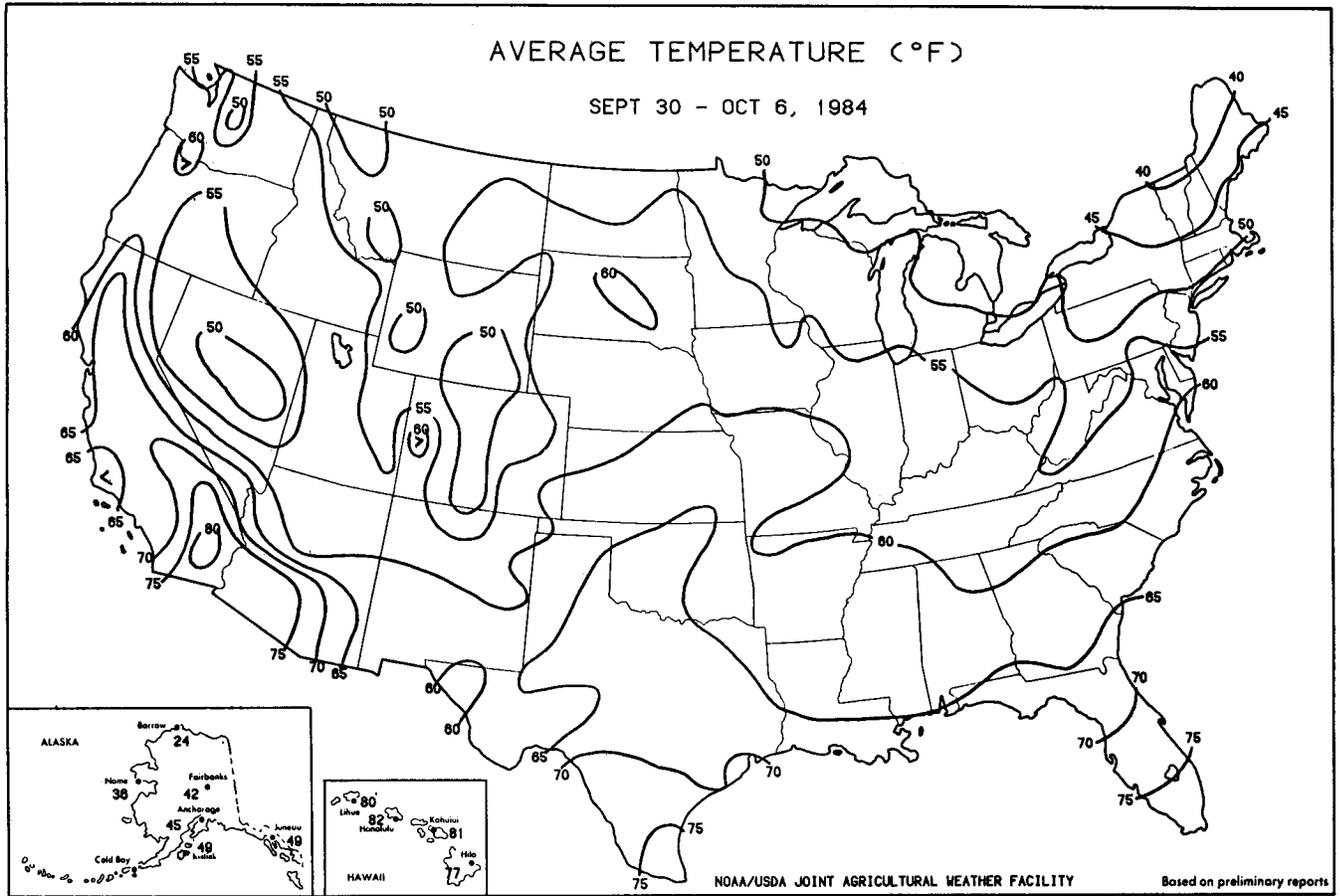
**TUESDAY...**Light showers covered New England, the eastern Great Lakes region, and the central Plateau and southern Rockies. Temperatures began to warm through the Plains, but the cold air moved over the Midwest.

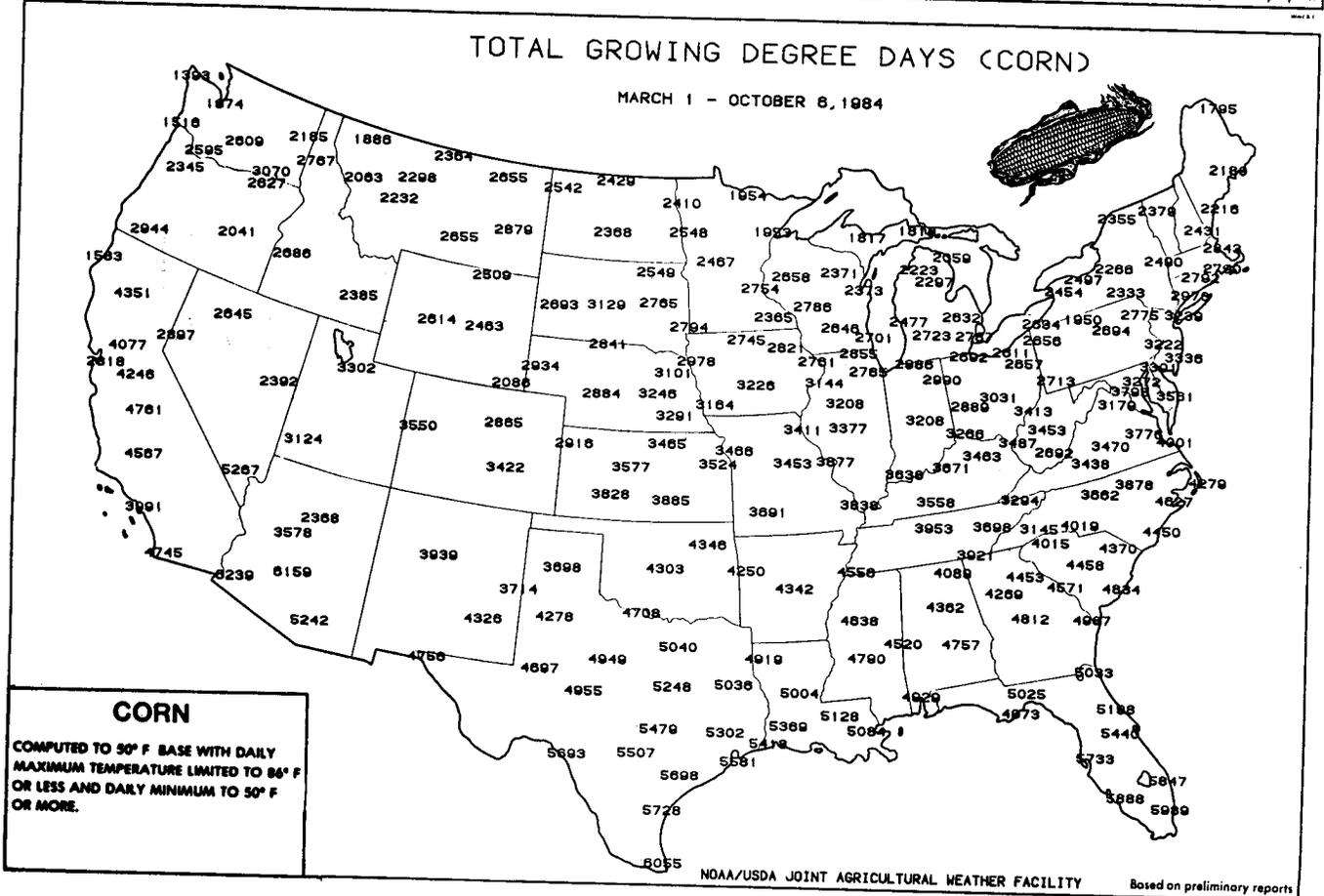
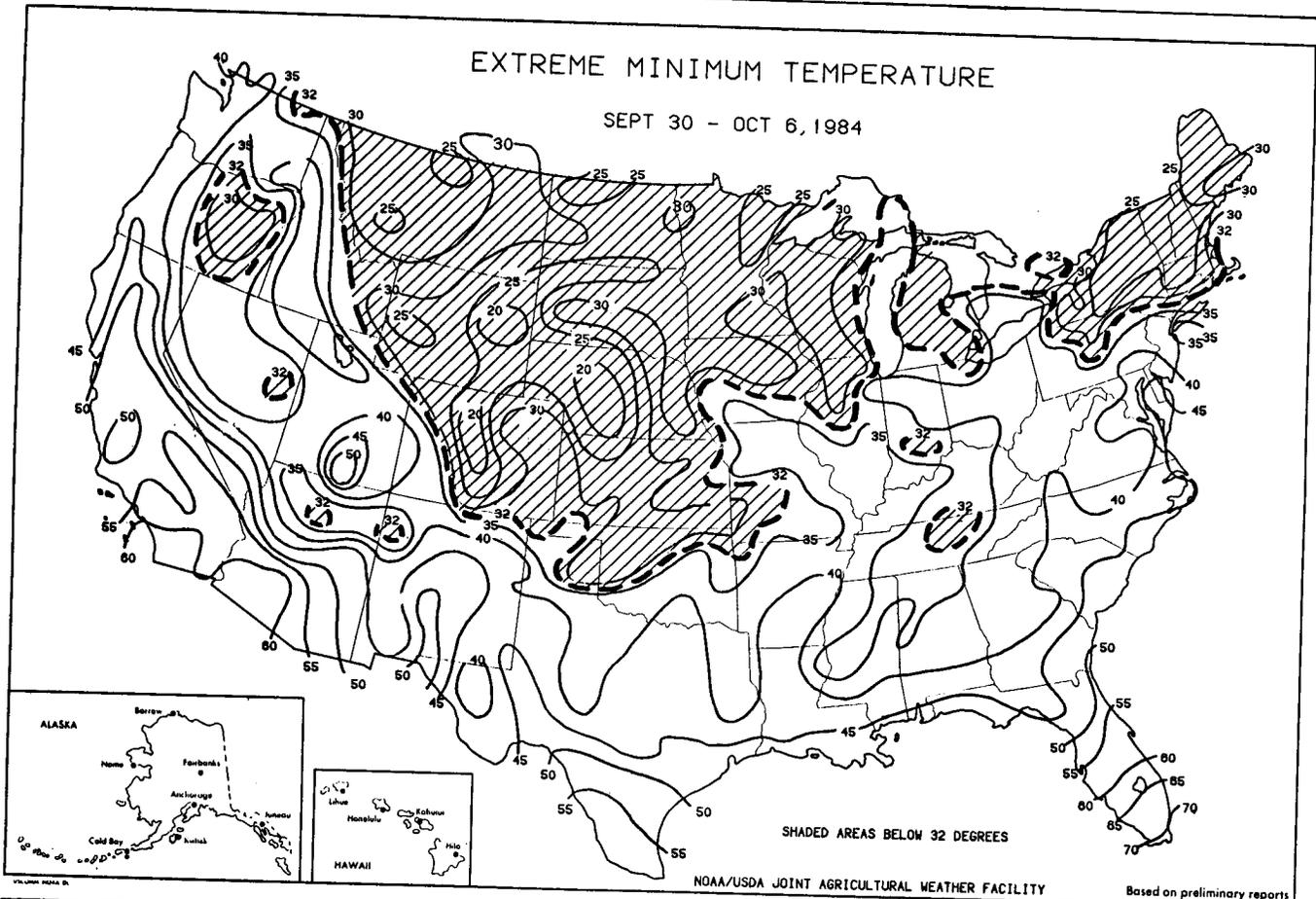
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Weather Data for the Week Ending OCTOBER 6, 1984

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 Sept. 1	PCT. NORMAL SINCE Sept. 1	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE	
AL BIRMINGHAM	76	44	83	36	60	-7	T	-7	T	.1	2	33.9	77	84	28	0	0	1	0	
MOBILE	78	51	84	43	64	-9	0	-9	0	.7	10	43.8	81	76	36	0	0	0	0	
MONTGOMERY	80	47	86	38	63	-7	0	-7	0	.8	15	40.5	102	89	32	0	0	0	0	
AK ANCHORAGE	51	39	54	30	45	5	T	-5	T	2.6	91	12.3	105	85	56	0	0	0	0	
BARROW	25	22	29	19	24	3	T	-1	T	.2	27	3.5	90	91	76	0	1	7	3	
FAIRBANKS	49	35	57	28	42	9	T	-2	T	.2	15	7.9	94	83	54	0	2	2	1	
JUNEAU	53	44	56	35	49	3	1.4	-4	.7	4.4	55	39.1	105	99	71	0	0	0	1	
KODIAK	53	44	55	37	49	4	3.2	1.0	1.4	10.7	111	57.1	107	95	78	0	0	0	2	
NOME	42	30	48	20	36	4	.1	-3	.1	1.6	63	12.4	101	93	64	0	5	2	2	
AZ PHOENIX	87	66	93	60	77	-2	.2	.1	.2	3.6	484	11.2	214	72	33	2	0	1	0	
FRESNOCO	70	46	75	40	58	-2	.1	-2	.1	2.1	125	11.6	78	81	41	0	0	0	0	
TUCSON	81	60	93	54	71	-4	.3	.1	.3	2.2	143	11.4	127	71	30	1	1	2	0	
YUMA	90	66	99	63	78	-3	0	-1	0	.1	26	4.1	216	56	23	3	0	0	0	
AR FORT SMITH	72	49	81	35	61	-7	3.2	2.4	2.2	9.4	243	30.9	100	93	48	0	0	0	2	
LITTLE ROCK	71	52	80	42	61	-7	4.0	3.3	3.8	8.2	186	35.9	100	82	54	0	0	2	1	
CA BAKERSFIELD	80	55	85	52	68	-5	0	0	0	T	0	1.3	32	68	32	0	0	0	0	
EUREKA	66	52	76	49	59	3	.8	.4	.5	.9	69	17.7	73	96	76	0	0	2	0	
FRESNO	81	57	86	54	69	0	0	-1	T	T	0	2.1	29	70	33	0	0	0	0	
LOS ANGELES	73	62	79	60	67	-1	0	0	0	.1	64	2.1	24	79	52	0	0	0	0	
RED BLUFF	78	54	85	51	66	-3	0	-1	T	.2	34	5.0	36	84	41	0	0	0	0	
SACRAMENTO	80	59	84	56	69	-2	.1	0	.1	.1	19	3.1	27	76	37	0	0	1	0	
SAN DIEGO	75	69	80	67	72	3	0	0	T	T	0	1.5	22	81	64	0	0	0	0	
SAN FRANCISCO	70	56	76	53	63	1	1	-1	T	T	.1	27	4.2	33	91	59	0	0	2	
CO DENVER	65	43	73	32	54	-3	1.7	1.5	1.1	2.2	153	14.0	106	86	46	0	1	3	2	
GRAND JUNCTION	69	50	75	40	60	-1	1.6	1.4	.7	2.0	232	9.7	160	84	39	0	0	4	1	
PUEBLO	69	44	79	27	56	-3	1.2	1.0	.8	1.4	157	15.5	164	95	47	0	0	1	1	
CT BRIDGEPORT	61	46	67	33	54	-6	.3	-4	.3	2.0	54	35.5	113	80	46	0	2	2	1	
HARTFORD	61	37	69	24	49	-8	1.0	.2	.6	2.2	48	36.0	108	84	37	0	0	0	0	
DC WASHINGTON	67	51	72	46	59	-5	1.6	.9	1.2	3.8	99	31.2	101	85	52	0	0	2	1	
FL APALACHICOLA	78	54	82	48	66	-8	0	-1.2	0	1.2	13	51.6	112	92	55	0	0	0	0	
DAYTONA BEACH	80	62	83	56	71	-5	.1	-1.2	.1	11.0	142	42.1	104	82	52	0	0	1	0	
JACKSONVILLE	78	55	81	49	66	-7	T	-1.1	T	12.2	150	43.9	96	97	51	0	0	1	1	
KEY WEST	82	76	84	75	79	-3	1.5	.2	1.5	7.4	97	36.8	119	79	62	0	0	0	1	
MIAMI	81	70	84	66	76	-4	1.3	-.6	.8	10.8	112	53.4	112	84	57	0	0	2	1	
ORLANDO	81	62	84	57	71	-6	T	-.9	T	6.2	99	41.5	98	95	50	0	0	0	0	
TALLAHASSEE	82	48	87	39	65	-8	0	-1.0	0	2.5	35	51.2	94	95	34	0	0	0	0	
TAMPA	81	62	84	55	71	-6	0	-.8	0	4.2	62	31.2	76	88	45	0	0	0	0	
WEST PALM BEACH	83	71	85	66	77	-2	.1	-2.0	-.1	8.3	75	53.2	110	79	57	0	0	2	0	
GA ATLANTA	73	50	82	43	62	-5	T	-.6	T	.1	1	48.2	123	79	36	0	0	1	0	
AUGUSTA	78	48	86	40	63	-5	.2	-.4	.2	.3	8	41.4	114	86	36	0	0	1	0	
MACON	77	46	84	39	62	-8	.1	-.4	.1	.4	9	39.9	108	96	37	0	0	1	0	
SAVANNAH	77	54	82	46	66	-5	1.2	.4	1.2	7.3	127	46.0	106	92	45	0	0	1	1	
HI HILO	84	69	87	66	77	1	.4	-1.4	.2	4.2	51	67.0	73	88	66	0	0	3	0	
HONOLULUI	90	73	94	70	82	2	T	-.3	T	1.3	149	6.4	42	84	48	5	0	0	0	
KAHULUI	89	73	94	71	81	3	T	-.1	T	T	0	6.8	48	79	53	2	0	1	0	
LIHUE	85	74	86	71	80	2	T	-.8	T	2.7	90	13.2	45	79	58	0	0	0	0	
ID BOISE	72	44	77	41	58	1	0	-.1	0	.7	97	9.4	111	63	26	0	0	0	0	
LEWISTON	72	44	78	41	58	1	T	-.2	T	T	2	8.0	84	75	34	0	0	0	0	
POCATELLO	73	39	77	29	56	3	T	-.2	T	.5	61	10.8	131	76	23	0	1	1	0	
IL CHICAGO	68	41	75	29	55	-4	.1	-.6	.1	3.9	102	25.0	91	95	38	0	1	1	0	
MOLINE	71	42	77	30	56	-2	T	-.7	T	2.3	54	26.4	84	86	37	0	2	0	0	
PEORIA	71	44	78	30	58	-1	.1	-.6	.1	2.5	59	28.0	96	84	35	0	1	1	0	
QUINCY	72	48	80	36	60	-1	.1	-.8	.1	3.4	70	28.6	91	86	41	0	0	1	0	
ROCKFORD	70	39	73	27	54	-3	T	-.7	T	1.5	35	21.2	70	92	32	0	0	1	0	
SPRINGFIELD	71	46	82	32	59	-2	T	-.6	T	4.8	134	29.6	106	90	40	0	1	0	0	
IN EVANSVILLE	70	46	79	37	58	-4	.1	-.5	.1	7.1	225	33.7	103	85	45	0	0	1	0	
FORT WAYNE	69	43	75	35	56	-2	T	-.6	T	3.0	100	22.1	81	82	35	0	0	0	0	
INDIANAPOLIS	68	46	76	35	57	-3	T	-.5	T	4.7	148	29.8	96	90	50	0	0	1	0	
SOUTH BEND	67	43	72	34	55	-3	.4	-.4	.4	4.0	104	23.4	78	80	37	0	0	1	0	
IA DES MOINES	70	45	76	30	57	-2	1.0	.5	.9	3.8	108	33.0	124	90	42	0	1	2	1	
SIOUX CITY	72	44	80	30	58	0	.6	.2	.5	1.3	46	26.8	119	81	39	0	1	2	0	
WATERLOO	70	41	76	27	55	0	.1	-.5	.1	1.5	40	25.5	90	83	37	0	2	1	0	
KS CONCORDIA	73	51	82	36	62	0	.6	.1	.4	4.3	126	24.4	102	82	50	0	0	2	0	
DODGE CITY	76	51	88	32	63	0	1.0	.6	1.0	1.3	61	14.5	78	86	43	0	1	1	1	
GOODLAND	68	43	79	30	56	-2	1.6	1.3	.8	1.8	111	18.6	127	95	57	0	1	3	1	
TOPEKA	73	47	84	29	60	-2	1.2	.5	1.0	5.5	135	32.2	114	96	43	0	2	4	1	
WICHITA	76	51	83	31	63	-1	.1	-.6	0	2.2	55	19.9	82	82	37	0	1	3	0	
KY BOWLING GREEN	68	44	79	33	56	-7	.2	-.4	.1	3.0	82	42.3	110	98	50	0	0	2	0	
LEXINGTON	69	47	78	33	58	-4	.1	-.4	.1	1.3	36	28.3	77	92	45	0	0	2	0	
LOUISVILLE	69	47	78	37	58	-5	.2	-.4	.2	3.7	97	35.2	102	92	53	0	0	2	0	
LA ALEXANDRIA	75	52	87	41	64	-9	T	-.8	T	2.9	87	46.3	110	85	48	0	0	1	0	
BATON ROUGE	78	52	90	44	65	-7	T	-.7	T	2.4	47	30.3	68	84	39	1	0	0	0	
LAKE CHARLES	78	53	87	43	66	-8	0	-.9	0	6.8	114	42.8	103	97	46	0	0	0	0	
NEW ORLEANS	76	54	84	45	65	-8	T	-.8	T	3.8	59	43.9	90	84	45	0	0	0	0	

+100 = NORMAL & ACTUAL NEAR THE SAME

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

Weather Data for the Week Ending **OCTOBER 6, 1984**

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 SEPT. 1	PCT. NORMAL SINCE SEPT. 1	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE °F		PRECIPITATION		
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE	
SHREVEPORT	78	51	89	40	64	-7	1.8	1.2	1.8	4.4	115	30.8	90	98	43	0	0	1	0	
ME CARIBOU	47	33	55	28	40	-7	1.0	1.2	1.3	2.6	62	29.5	106	90	43	0	0	0	0	
PORTLAND	56	37	62	25	46	-6	2.0	1.2	1.6	2.8	70	39.7	127	85	47	0	0	5	0	
MD BALTIMORE	65	46	70	40	55	-5	1.1	1.0	1.0	3.5	86	31.3	95	83	44	0	0	2	1	
SALISBURY	67	47	73	41	57	-5	.3	-.6	.3	1.1	23	36.4	102	97	50	0	0	1	0	
MA BOSTON	55	41	61	33	48	-11	3.7	3.0	2.7	4.9	122	44.1	136	80	51	0	0	2	1	
GATHAM	58	46	62	35	52	-5	4.0	3.2	3.9	5.7	129	43.4	126	99	51	0	0	0	0	
MT ALPENA	58	30	66	27	44	-7	.1	-.5	.1	3.9	118	23.7	103	99	47	0	0	6	1	
DETROIT	65	39	72	31	52	-5	.1	-.4	.1	2.5	95	18.9	77	79	38	0	0	0	0	
FLINT	66	38	70	32	51	-4	.0	-.5	.0	2.7	98	21.1	91	91	39	0	0	1	0	
GRAND RAPIDS	65	38	70	31	52	-4	.1	-.6	.1	2.4	63	18.3	68	91	41	0	0	0	0	
HOUGHTON LAKE	65	33	66	26	47	-5	.0	-.6	.0	1.8	54	20.3	92	94	46	0	0	0	0	
LANSING	60	36	66	29	50	-5	.0	-.5	.0	2.6	88	19.7	84	95	41	0	0	0	0	
MARQUETTE	58	34	66	28	46	-2	.1	-.8	.1	4.3	93	25.4	87	94	46	0	0	0	0	
MUSKIEGON	63	38	70	28	51	-5	.1	-.1	.1	1.7	50	20.1	84	92	44	0	0	1	0	
SAULT STE. MARIE	56	33	64	29	45	-5	.4	-.3	.2	5.3	119	22.8	89	97	54	0	0	4	0	
MN ALEXANDRIA	66	44	71	32	55	-3	.4	-.6	.4	2.2	83	23.2	109	82	40	0	0	1	0	
DULUTH	61	40	66	27	51	-2	.4	-.1	.4	2.2	83	23.2	109	97	40	0	0	4	0	
INT'L FALLS	62	39	68	25	51	-3	.0	-.6	.0	3.9	105	19.1	76	81	40	0	0	0	0	
MINNEAPOLIS	67	44	73	34	55	-3	.1	-.4	.1	2.5	68	16.3	78	81	44	0	0	2	0	
ROCHESTER	65	42	71	32	53	-2	.1	-.4	.1	2.9	100	16.3	78	81	44	0	0	2	0	
MS GREENWOOD	75	46	80	35	61	-8	1.8	1.1	1.8	2.7	76	28.8	126	85	43	0	0	2	1	
JACKSON	78	45	85	34	62	-8	.4	-.6	.4	2.4	61	33.9	83	86	78	0	0	0	0	
MERIDIAN	78	44	85	36	61	-8	.4	-.7	.4	.9	23	33.4	81	94	38	0	0	2	0	
MO CAPE GIRARDEAU	71	47	78	35	59	-1	.3	-.2	.3	4.9	20	35.7	84	97	36	0	0	0	0	
COLUMBIA	72	47	80	32	60	-3	.8	-.5	.8	117	25.9	74	97	50	0	0	0	0		
KANSAS CITY	72	49	80	33	61	-2	.5	-.4	.5	5.9	135	37.5	127	83	48	0	0	1	0	
SAINT LOUIS	72	51	80	38	62	-2	.3	-.4	.3	3.7	76	28.2	94	90	45	0	0	2	1	
SPRINGFIELD	72	48	81	31	60	-3	.4	-.2	.4	9.2	291	34.6	126	93	45	0	0	0	0	
MT BILLINGS	71	41	75	31	56	-2	.4	-.2	.4	5.2	105	28.8	91	86	47	0	0	0	0	
GLASGOW	72	38	76	31	55	-2	.0	-.3	.0	1.4	95	8.5	67	74	26	0	0	1	0	
GREAT FALLS	73	37	77	29	55	-2	.0	-.1	.0	.8	78	5.4	52	67	23	0	0	1	0	
HAVRE	72	33	78	22	53	-2	.0	-.2	.0	.6	52	9.4	72	75	20	0	0	1	0	
HELENA	71	35	75	28	53	-2	.0	-.1	.0	.7	69	5.0	51	67	22	0	0	2	0	
KALISPELL	66	30	70	25	48	-3	.0	-.2	.0	.7	76	7.5	77	81	25	0	0	3	0	
MILES CITY	74	42	78	32	58	-2	.1	-.2	.1	1.9	76	7.5	77	81	25	0	0	0	0	
MISSOULA	69	34	72	27	51	-2	.2	-.2	.2	.7	148	10.9	89	88	33	0	0	6	0	
NE GRAND ISLAND	72	45	82	30	59	-1	.2	-.8	.2	.8	67	10.8	102	94	32	0	0	1	0	
LINCOLN	73	46	82	28	60	-1	1.2	-.7	.8	1.4	49	26.5	126	76	39	0	0	2	1	
NORFOLK	73	46	82	27	59	-2	.8	-.4	.8	2.6	78	30.3	126	88	45	0	0	1	0	
NORTH PLATTE	71	40	82	18	55	-5	1.1	-.8	.7	1.5	64	27.5	128	73	34	0	0	3	3	
OMAHA	70	49	78	33	59	-2	.8	-.2	.8	1.5	79	18.4	103	81	40	0	0	1	1	
SCOTTSBLUFF	71	42	81	23	56	-6	.6	-.3	.6	4.0	105	28.9	109	76	57	0	0	2	0	
VALENTINE	73	42	82	21	57	-3	.1	-.2	.1	1.1	83	11.9	91	78	35	0	0	0	0	
NV ELI	64	33	72	29	49	-4	.6	-.1	.6	.6	37	18.0	114	79	33	0	0	1	0	
LAS VEGAS	81	57	90	51	69	-1	.0	-.4	.0	4.3	527	12.2	169	89	36	0	0	0	0	
RENO	69	39	75	35	54	-1	.9	-.1	.9	.5	134	4.2	131	49	20	0	0	3	0	
WINNEMOCCA	69	38	75	35	53	-1	.1	.0	.1	.1	25	2.0	37	82	31	0	0	0	0	
NH CONCORD	55	35	64	20	45	-7	.9	-.8	.9	1.1	25	9.5	164	82	34	0	0	0	0	
NJ ATLANTIC CITY	66	46	73	38	56	-4	3.2	2.5	2.1	4.2	114	35.6	132	92	44	0	0	3	3	
NM ALBUQUERQUE	69	49	78	45	59	-4	.7	.1	.6	2.0	59	33.9	105	86	48	0	0	0	0	
CLOVIS	69	45	78	38	57	-6	1.1	.9	.9	2.2	215	8.2	124	91	42	0	0	2	1	
ROSWELL	74	51	79	44	62	-4	.5	-.6	.5	1.7	76	19.1	129	95	51	0	0	3	3	
NY ALBANY	55	37	67	25	46	-7	1.0	.2	.5	1.5	78	14.1	168	90	43	0	0	0	1	
BINGHAMTON	55	37	67	27	46	-7	.6	-.1	.6	2.5	66	30.9	112	97	56	0	0	3	3	
BUFFALO	57	39	63	28	48	-8	.5	-.4	.5	2.5	64	31.8	112	86	46	0	0	2	1	
NEW YORK	64	48	67	42	56	-6	.2	-.2	.2	4.2	107	30.5	109	90	50	0	0	4	0	
ROCHESTER	58	40	63	29	49	-7	.5	-.4	.5	3.2	79	42.4	129	76	44	0	0	2	2	
SYRACUSE	55	36	60	23	46	-10	.5	-.2	.5	3.5	113	28.3	118	84	43	0	0	2	3	
NC ASHEVILLE	67	41	76	31	54	-6	.7	-.6	.7	3.1	80	28.4	94	95	55	0	0	0	0	
CHARLOTTE	71	48	80	42	59	-6	1.2	1.0	1.2	.2	3	39.1	102	100	57	0	0	2	3	
GREENSBORO	68	46	79	38	57	-6	1.7	1.0	1.7	1.7	42	39.7	114	93	45	0	0	1	0	
HATTERAS	72	57	78	44	64	-6	1.1	.3	1.1	1.2	27	45.5	133	91	48	0	0	1	1	
NEW BERN	75	52	80	44	63	-5	.2	-.8	.2	3.8	57	38.0	89	93	61	0	0	0	0	
RALEIGH	71	47	80	36	59	-5	1.9	1.3	1.6	2.6	69	36.0	128	92	53	0	0	2	2	
WILMINGTON	74	51	80	45	63	-6	.2	-.7	.2	19.1	299	54.9	123	100	52	0	0	0	0	
ND BISMARCK	70	43	76	27	57	-5	.3	-.2	.3	1.0	62	12.6	91	78	36	0	0	2	1	
FARGO	72	38	79	25	55	-5	.3	-.4	.3	1.6	74	12.9	75	73	34	0	0	2	1	
GRAND FORKS	70	36	74	24	53	-3	.0	-.2	.0	.4	16	16.4	102	80	34	0	0	1	0	
WILLISTON	63	43	71	40	53	-4	1.0	-.5	1.0	2.2	143	9.4	77	83	32	0	0	1	0	
OH AKRON-CANTON	67	45	74	33	56	-4	.3	-.3	.3	3.2	94	27.2	94	91	44	0	0	0	0	
CINCINNATI	63	41	71	38	52	-4	.3	-.3	.3	3.5	103	27.8	87	90	50	0	0	2	1	
CLEVELAND	67	41	71	38	52	-4	.4	-.2	.4	2.6	77	31.8	114	87	45	0	0	1	0	
COLUMBUS	67	42	75	33	54	-5	.4	-.2	.4	1.8	59	23.5	78	87	40	0	0	2	0	

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

Weather Data for the Week Ending OCTOBER 6, 1984

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 SEPT. 1	PCT. NORMAL SINCE SEPT. 1	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE °F		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
DAYTON	66	44	73	37	55	-5	.1	-4	.1	3.3	121	25.3	91	86	52	0	0	2	0
TOLEDO	65	39	72	30	52	-4	T	-4	T	2.2	75	23.6	93	93	42	0	1	1	0
YOUNGSTOWN	62	39	69	33	51	-5	.8	.1	.5	3.1	86	29.2	98	93	50	0	0	2	1
OK OKLAHOMA CITY	77	54	86	37	65	6	.1	-7	-1	1.1	26	16.8	64	74	38	0	0	1	0
TULSA	77	53	91	35	65	3	T	-9	T	2.8	54	30.3	95	86	40	1	0	1	0
OR ASTORIA	65	46	71	42	56	0	.1	-1	.1	3.2	78	38.8	90	89	65	0	0	2	0
BURNS	69	36	74	29	53	0	0	0	0	.1	7	7.4	140	37	29	0	5	0	0
MEDFORD	74	47	84	41	61	2	.1	-2	.1	.6	56	8.1	67	99	42	0	0	2	0
PENDLETON	70	44	77	41	57	0	T	-2	T	.5	68	8.9	108	75	33	0	0	0	0
PORTLAND	71	52	77	46	62	4	.1	-4	.1	1.6	79	21.3	92	87	49	0	0	0	0
SALEM	70	48	75	44	59	2	.2	-3	.2	1.4	67	24.7	100	96	56	0	0	1	1
PA ALLENTOWN	62	41	67	35	52	-6	.8	0	.7	1.9	40	44.1	128	81	44	0	0	0	1
ERIE	60	43	65	40	52	-4	.4	-4	.3	5.6	123	28.6	96	83	53	0	0	3	3
HARRISBURG	64	46	69	43	55	-5	.6	-1	.5	1.3	32	35.9	118	81	—	0	0	2	1
PHILADELPHIA	64	46	69	42	55	-6	.9	.2	.9	2.8	71	38.2	118	86	47	0	0	1	1
PITTSBURGH	62	41	69	37	52	-6	.8	.2	.6	1.5	45	26.4	90	84	45	0	0	2	1
SCRANTON	60	43	65	35	51	-5	.5	.5	.5	1.9	48	31.9	116	82	44	0	0	2	2
RI PROVIDENCE	61	41	68	29	51	-6	1.8	1.0	1.4	3.6	85	41.1	122	73	39	0	1	2	1
SC CHARLESTON	75	53	80	47	64	-6	T	-8	T	5.2	93	42.5	96	97	51	0	0	1	1
COLUMBIA	78	46	85	38	62	-6	.5	-2	.5	.7	14	41.2	100	97	39	0	0	0	0
FLORENCE	74	49	81	44	62	-7	.1	-6	.1	1.3	29	37.6	101	100	49	0	0	1	1
SD GREENVILLE	71	48	80	40	60	-6	1.1	.2	1.1	1.3	26	51.2	126	84	41	0	0	1	0
ABERDEEN	72	42	80	24	57	3	T	-3	T	.7	43	17.8	111	88	39	0	2	0	0
HURON	70	43	76	28	57	2	.4	.1	.4	1.4	83	26.1	159	84	42	0	2	1	1
RAPID CITY	72	44	78	31	58	3	.6	.4	.6	1.3	111	14.4	98	67	30	0	0	2	1
SIoux FALLS	71	42	78	27	56	2	.4	0	.4	2.0	64	24.8	116	77	33	0	2	1	1
TN CHATTANOOGA	73	44	82	36	59	-7	.1	-6	.1	.5	10	36.1	88	86	37	0	0	1	0
KNOXVILLE	72	46	81	36	59	-5	.4	-2	.4	.8	24	39.9	108	90	42	0	0	1	1
MEMPHIS	73	51	81	39	62	-6	1.7	1.1	1.6	3.6	89	41.0	101	89	47	0	2	1	0
NASHVILLE	73	45	83	32	59	-7	T	-6	T	1.0	23	42.0	109	89	36	0	1	2	1
TX ABILENE	76	55	86	40	66	-5	.4	-2	.4	4.0	111	12.4	64	80	47	0	0	2	2
AMARILLO	77	49	89	30	63	-1	1.1	.7	.6	2.0	102	15.0	88	88	38	0	1	2	0
AUSTIN	81	58	91	45	69	-5	T	-8	T	.8	19	10.9	44	86	42	2	0	2	0
BEAUMONT	78	59	87	47	68	-6	0	-1	0	4.1	59	36.5	89	95	52	0	0	0	0
BROWNSVILLE	83	69	87	59	76	-2	T	-1	T	19.5	317	36.7	180	90	56	0	0	2	1
CORPUS CHRISTI	83	64	89	52	74	-4	.1	-1	.1	3.1	44	13.1	52	93	51	0	0	1	0
DEL RIO	78	64	87	54	71	-4	0	-6	0	1.9	57	8.0	56	82	52	0	0	0	0
EL PASO	77	55	81	51	66	-2	.1	-1	.1	1.1	67	11.8	179	81	37	0	0	1	0
FORT WORTH	80	57	90	42	68	-4	.6	-1	.5	.7	18	18.6	77	80	37	1	0	2	1
GALVESTON	75	66	81	58	71	-5	T	-8	T	5.1	78	21.4	68	79	58	0	0	0	0
HOUSTON	80	58	90	44	69	-5	.1	-8	.1	3.9	67	27.2	78	80	40	1	0	1	0
LUSBOCK	78	52	85	43	65	-1	.3	-2	.3	.5	19	10.2	66	90	41	0	0	2	1
MIDLAND	75	54	82	41	65	-4	.4	0	.4	2.3	95	11.7	101	89	46	0	0	0	0
SAN ANGELO	76	53	84	38	64	-7	.6	0	.6	3.5	99	11.3	75	97	60	0	0	2	1
SAN ANTONIO	80	60	89	47	70	-4	.2	-6	.2	1.2	28	13.8	59	80	45	0	0	1	0
VICTORIA	83	60	90	49	72	-4	T	-1	T	1.9	26	19.3	64	96	48	1	1	1	0
WACO	82	57	92	44	70	-4	3.2	2.4	3.2	4.5	116	18.9	77	86	42	2	0	1	0
WICHITA FALLS	78	55	89	38	66	-4	.2	-6	.2	1.0	24	10.8	49	93	44	0	0	1	0
UT BLANDING	66	42	73	36	54	-3	1.1	.8	.4	2.0	173	7.4	90	94	62	0	0	5	0
CEDAR CITY	71	40	76	37	56	-1	.4	.2	.4	.4	34	10.6	131	79	27	0	0	0	0
SALT LAKE CITY	72	48	77	44	60	2	.3	.1	.3	2.1	193	15.9	135	82	38	0	0	2	0
VT BURLINGTON	52	37	60	24	45	-8	1.2	.6	.8	4.1	109	29.4	112	85	52	0	2	3	1
VA NORFOLK	70	52	78	44	61	-5	.4	-5	.4	2.3	46	39.7	109	88	53	0	0	1	0
RICHMOND	70	47	78	37	59	-5	1.4	.6	1.0	2.9	69	40.2	116	93	51	0	0	2	1
WA ROANOKE	67	48	78	35	57	-4	1.7	.9	1.4	3.0	80	38.0	123	97	51	0	0	2	1
WA COVILVILLE	68	37	74	33	52	1	0	-2	0	.7	69	17.9	150	76	41	0	0	0	0
QUILLAYUTE	64	47	70	43	56	2	1.3	-.7	.7	4.8	68	71.0	109	98	64	0	0	3	1
SEATTLE-TACOMA	65	49	69	45	57	1	.1	-5	.1	1.2	46	21.9	92	94	54	0	0	1	0
SPOKANE	69	42	74	38	56	3	T	-2	T	.6	62	11.2	99	83	36	0	0	0	0
YAKIMA	72	41	77	33	57	2	T	-1	T	.4	113	5.7	108	76	34	0	0	1	0
WV BECKLEY	60	43	71	34	52	-5	1.0	.4	.9	1.9	50	31.8	93	94	63	0	0	2	1
CHARLESTON	67	47	77	39	57	-4	1.0	.3	.6	3.3	94	29.5	86	92	56	0	0	2	1
HUNTINGTON	65	47	76	39	56	-5	.6	.1	.5	2.8	79	27.8	84	91	60	0	0	2	1
PARKERSBURG	66	46	75	38	56	-4	.7	.2	.5	1.6	49	23.0	67	96	54	0	0	2	1
WI GREEN BAY	63	40	66	33	52	-1	.1	-5	.1	5.8	159	27.4	118	90	46	0	0	1	0
LA CROSSE	69	40	73	30	55	-1	.1	-5	.1	2.9	75	24.7	95	92	37	0	2	2	0
MADISON	68	39	72	29	54	-4	T	-6	T	2.8	80	23.5	91	89	38	0	0	0	0
MILWAUKEE	64	43	68	36	54	-2	T	-5	T	2.2	66	25.9	103	85	46	0	0	1	0
WAUSAU	64	39	67	30	52	0	T	-7	T	4.7	108	30.5	113	89	41	0	2	1	0
WY CASPER	67	34	72	19	50	-2	.1	-2	0	.6	58	11.2	117	88	33	0	3	2	0
CHEYENNE	61	39	71	29	50	-1	1.1	.9	.7	1.7	141	16.6	139	91	52	0	0	3	1
LANDER	68	38	70	29	53	-1	T	-3	T	.8	74	11.8	108	72	31	0	1	0	0
SHERIDAN	72	37	76	27	55	3	T	0	T	1.9	137	12.8	102	71	21	0	0	0	0
PR SAN JUAN	89	74	92	73	82	0	2.3	1.2	2.1	5.3	76	31.2	80	87	59	3	2	5	1

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

## September Weather and Crop Summary

### SEPTEMBER WEATHER SUMMARY

**HIGHLIGHTS:** September was a dry month for most of the east coast, the High Plains from Texas to Montana, and part of the western Corn Belt. It was especially dry over the Southeast, including most of the Delta where soybeans were yet to mature. Hurricane Diana and Tropical Storm Isidore moved northward along the southeastern coast, pounding the coastline with heavy surf and rain, but did not reach far enough inland to help. Showers produced above normal rain from central Texas to the Great Lakes and brought much needed rain to southern Illinois and Indiana. Hot weather plagued parts of the Plains but an outbreak of very cold air near the month's end brought an end to the growing season in the northern Plains and much of the central Plains. The cold air spread over most of the Nation. Hotter-than-normal weather persisted over most of California since April.

**FIRST WEEK...**It was hot over the central and southern Plains on the last day of the month but much cooler air spread southward, bringing very light rainshowers to the central and northern Plains and heavier showers from the southern Plains to the Great Lakes region. Drought conditions continued in the western part of the central Plains and the northern Plains. A heat wave persisted in California. Hurricane Diana began to affect the Florida east coast on the last day.

**SECOND WEEK...**Hurricane Diana moved slowly along the Southeast coast during most of the week, and finally moved inland near Wilmington, NC. The storm spread moderate to heavy rain along the coast, and pounded the coastline with hurricane-force winds. Beneficial rains fell in Iowa, the Great Lakes region, and from eastern Kansas through the eastern Corn Belt. Little rain fell in the central and southern Plains, and across much of the South. Temperatures were unusually warm in the central and southern Plains and in the Southwest.

**THIRD WEEK...**Heavy showers caused early-week local flooding over the southern tip of Texas. Later, moderate to heavy showers reached from central and western Louisiana, through western Arkansas, to southern Illinois. Beneficial showers fell from eastern Texas into eastern Kansas. Hot California and northern Plains weather gave way late in the week to much cooler temperatures. Cold rain changed to snow in Montana as the week ended.

**FOURTH WEEK...**Record cold weather pushed into the United States from Canada in early week. By week's end, colder than normal weather spread over the Nation except parts of the gulf coast and California. Freezing weather spread over the Rockies and Plateau, into the central Plains, the western Corn Belt, and the western Great Lakes. Tropical Storm Isidore moved over the Florida Peninsula, and then northward along the east coast before veering out to sea off North Carolina. The storm spread heavy rain along the coast and over Florida, but the rain did not reach very far inland. Moderate to heavy rain fell from Arizona to central Texas, and northeastward to the Great Lakes.

### SEPTEMBER ROW CROP DEVELOPMENT

Rain benefited late planted soybean sizing across the eastern Corn Belt in early September; but the benefit to the corn crop was limited because of the crop's advanced maturity. Persistent dryness stressed double-cropped soybeans

in the southeast, but allowed rapid harvesting of other row crops. Development of crops in the western Corn Belt was ahead of usual, but lagged slightly in eastern areas. A prolonged California heat wave until midmonth rapidly advanced maturity of most crops. An unusually hard freeze pushed southward at month's end halting plant growth across the Rocky Mountains, northern and central Plains, and most of the western Corn Belt. However, damaged was light because of the advanced maturity of most crops.

Corn was 87 percent mature by September 30, compared with the 83 percent average. Maturity was 13 percentage points slower than normal in Kentucky and trailed by 11 points in South Dakota. Harvesting advanced to 13 percent in the 17 major producing States. The average for the date is 14 percent. Combining was active in all States, with progress ranging from 3 percent finished in Pennsylvania to 91 percent complete in Georgia.

Leaves had dropped on 66 percent of the soybean acreage by September 30, equaling the average. Harvesting was 12 percent complete, trailing last year's 17 percent and 14 percent average. Harvesting trailed the average in half the major States. Combining had not started in the Carolinas or Tennessee. Progress ranged from 1 percent harvested in Arkansas to 30 percent complete in Iowa.

Cotton was in fair to mostly good condition. By September 30, bolls opened on 63 percent of the acreage, slightly behind normal. Twelve percent of the acreage was harvested, 2 points behind schedule. Harvesting was active in all States except New Mexico. Progress ranged up to 16 percent finished in Texas. Defoliant spraying became more widespread late in the month.

Sixty-four percent of the sorghum acreage was mature by the end of September, slightly ahead of average. Harvesting was 37 percent finished, 3 points ahead of normal. Harvesting progress ranged from 6 percent finished in South Dakota to 67 percent complete in Texas.

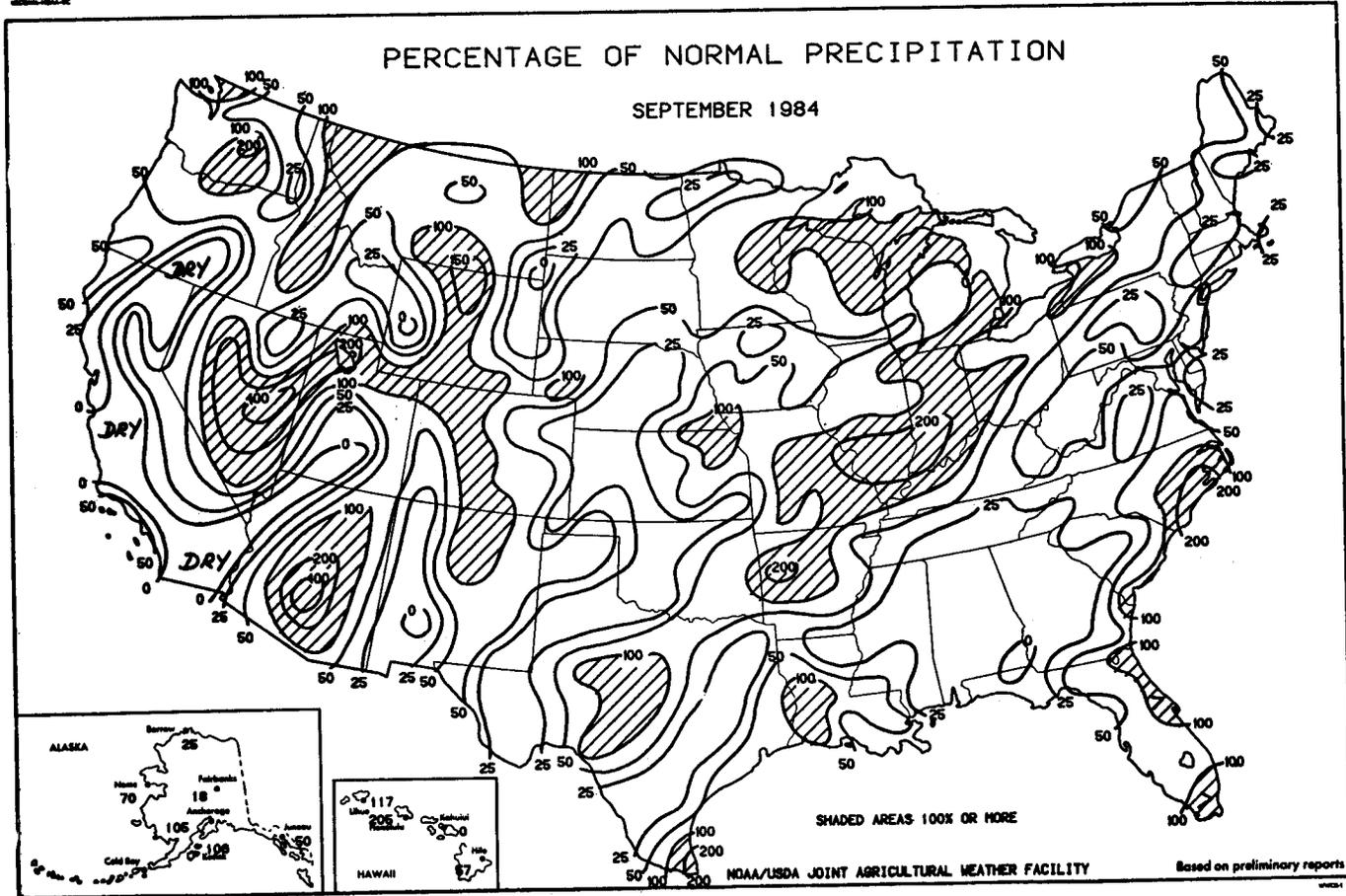
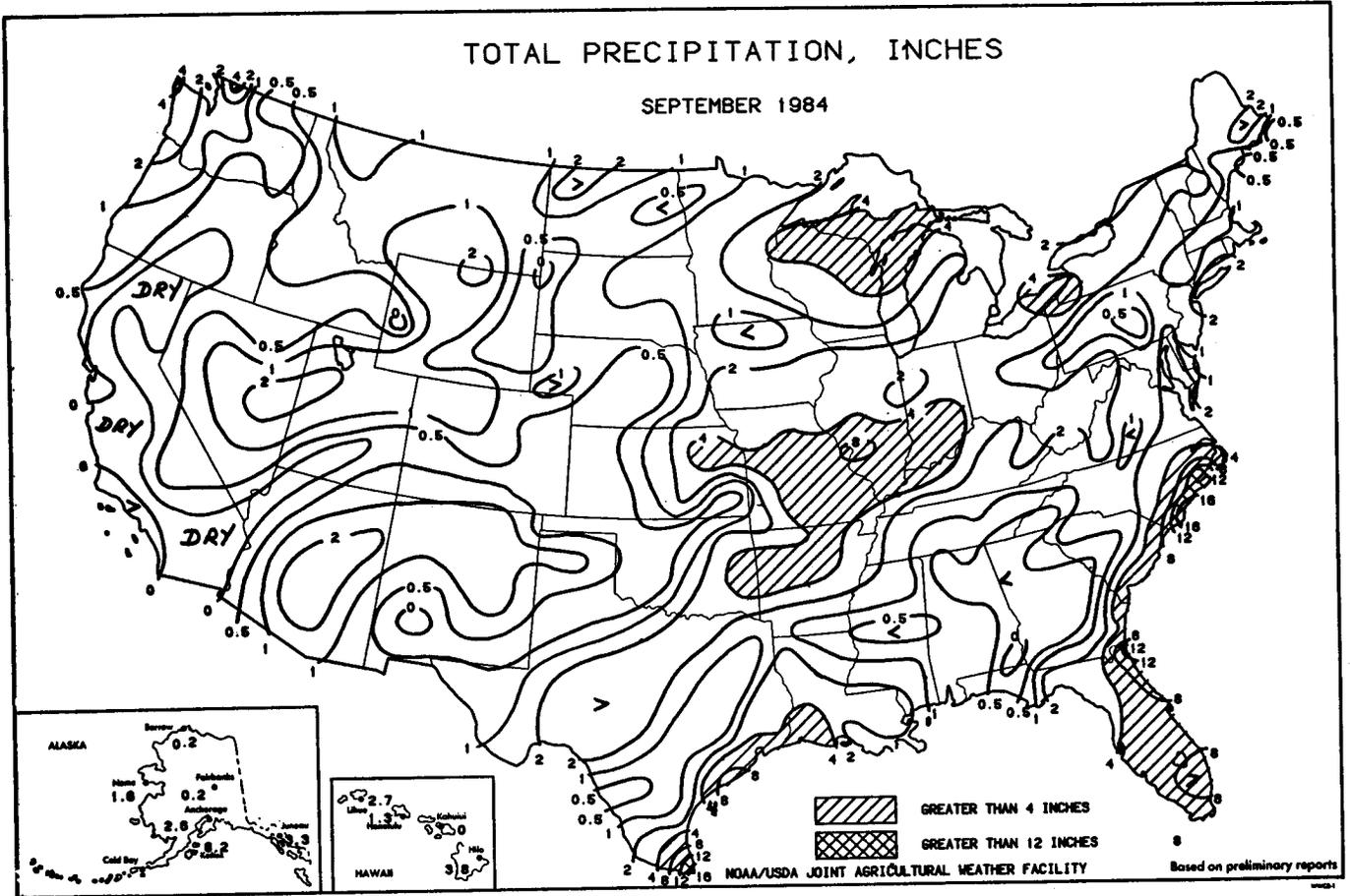
Rice was 62 percent harvested by September 30, 2 points ahead of the normal pace. Progress ranged from 40 percent finished in California to complete in Texas.

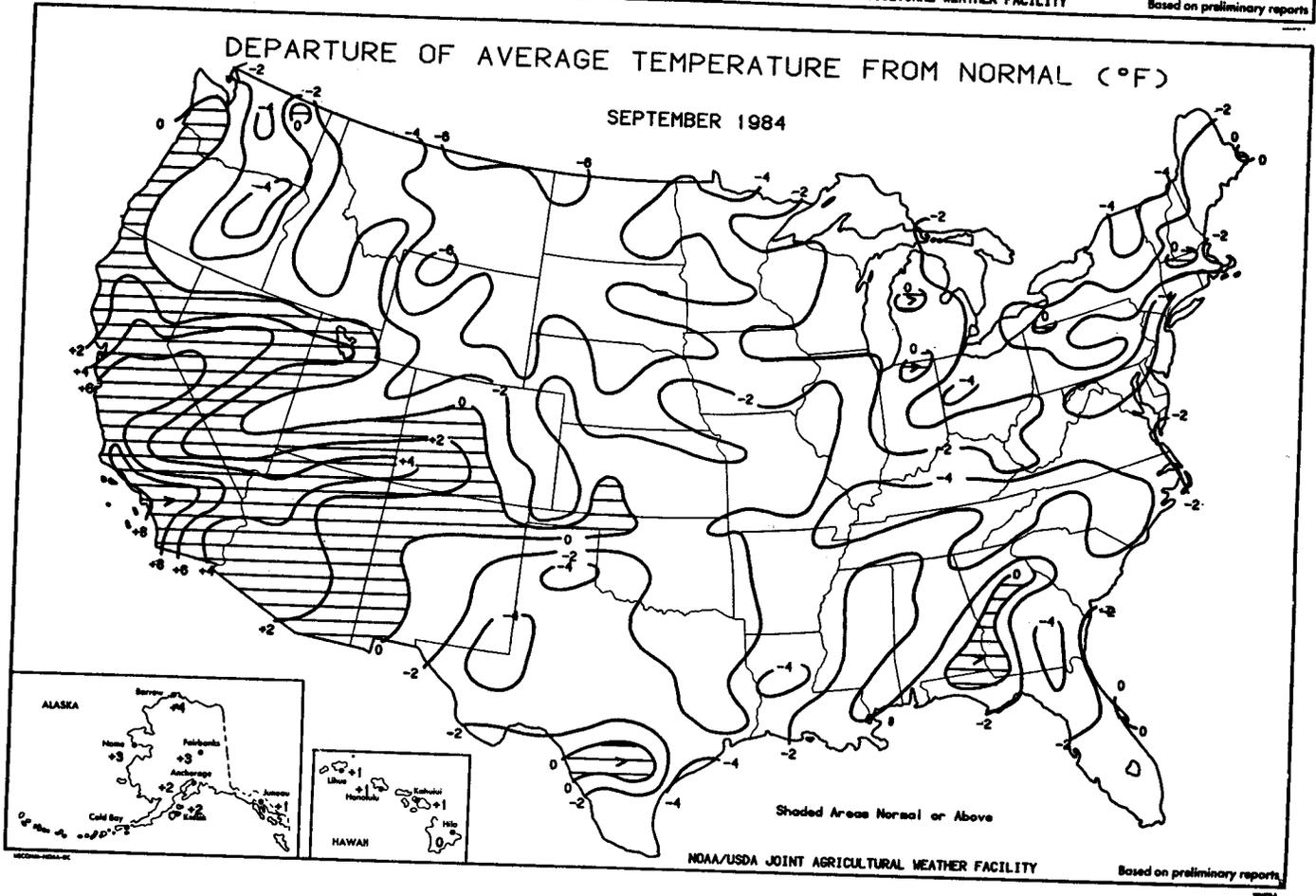
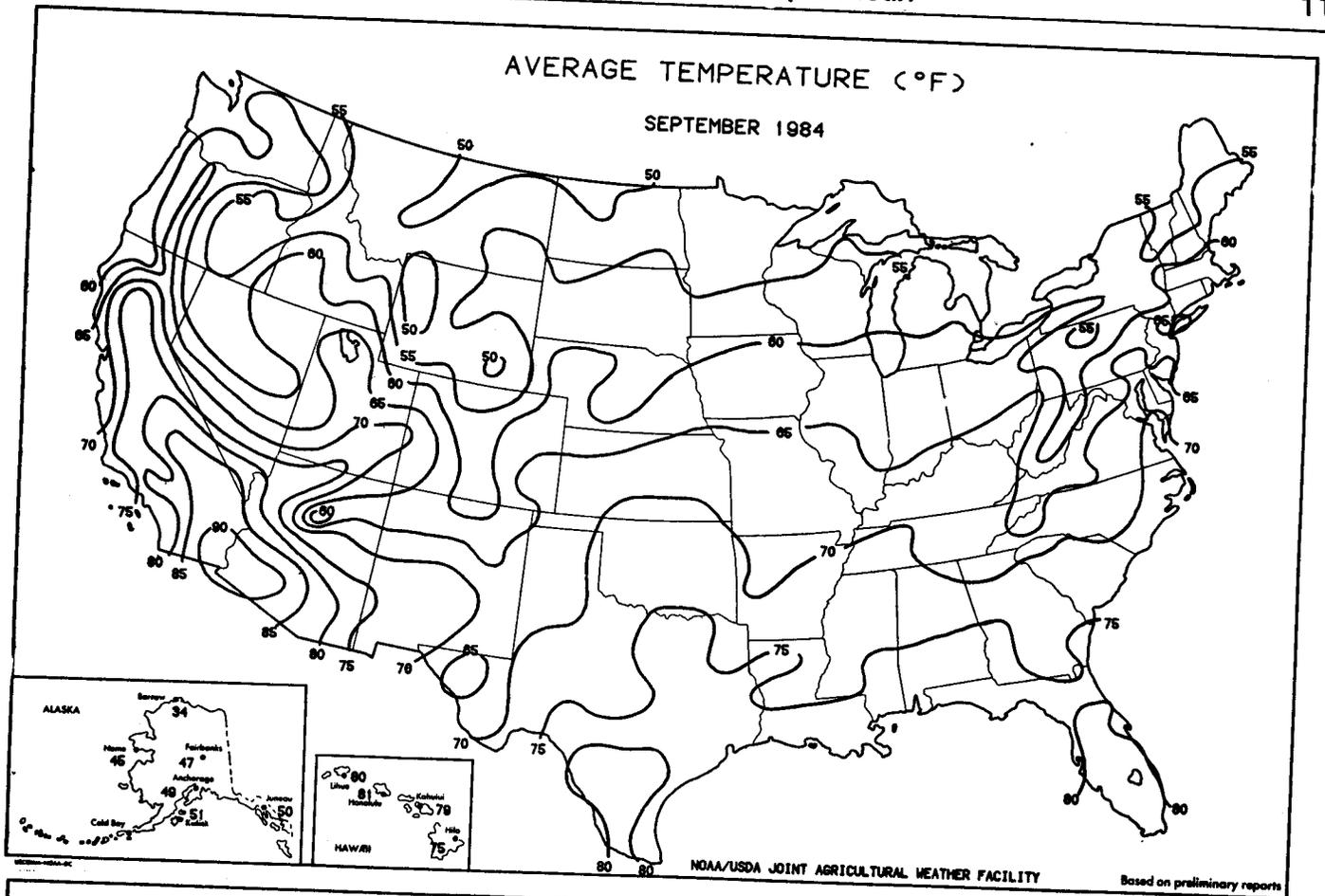
### WINTER WHEAT SEEDING

Winter wheat seeding for the 1985 harvest reached 41 percent completion by September 30, compared with 46 percent last year and the 51 percent average. Progress was behind average in all States except California, Idaho, Indiana, Nebraska, South Dakota, Texas, and Washington. Beneficial rains fell from central Texas into the eastern Corn Belt at the beginning and end of the month. However, persistent dryness across the western two-thirds of the central and southern Plains delayed seedings and limited emergence. Late month snow brought much-needed moisture for seedings across the northern Plains.

Late month rains provided moisture for newly-seeded wheat in extreme eastern Kansas, but elsewhere in the State producers planted under very dry conditions. Seeding was 35 percent complete by the end of September, 20 percentage points behind the normal pace. Only 10 percent of the seeded acreage had emerged, compared with 15 percent for both last year and the average.

(continued on p. 23)





Temperature and Precipitation Data for September 1984

States and Stations	Temperature °F		Precipitation Inches		States and Stations	Temperature °F		Precipitation Inches		States and Stations	Temperature °F		Precipitation Inches	
	Average	Departure	Total	Departure		Average	Departure	Total	Departure		Average	Departure	Total	Departure
AL BIRMINGHAM	72	-2	0.1	-4.2	LAKE CHARLES	76	-2	6.8	1.6	CLEVELAND	61	-3	2.4	-0.5
MOBILE	76	-2	0.7	-5.7	NEW ORLEANS	76	-2	3.8	-2.0	COLUMBUS	63	-3	1.5	-1.2
MONTGOMERY	75	-2	0.8	-3.9	SHREVEPORT	75	-2	2.6	-0.7	DAYTON	62	-4	3.3	0.9
AK ANCHORAGE	49	2	2.6	0.1	ME CARIBOU	52	-1	1.6	-1.9	TOLEDO	61	-2	2.1	-0.4
BARROW	34	4	0.2	-0.4	PORTLAND	58	-1	0.8	-2.5	YOUNGSTOWN	60	-2	2.6	-0.5
PATRICKS	47	3	0.2	-0.9	MD BALTIMORE	65	-4	2.4	-1.0	OK OKLAHOMA CITY	72	-1	1.0	-2.4
JUNEAU	50	1	3.3	-3.2	SALTSBURY	66	-2	0.8	-3.1	TULSA	72	-2	2.8	-1.6
KODIAK	51	2	8.2	0.5	MA BOSTON	62	-2	1.2	-2.2	OR ASTORIA	59	0	3.1	-0.1
NOME	45	3	1.6	-0.7	MI ALPENA	54	-2	3.9	1.0	MEDFORD	65	1	0.5	-0.3
AZ FLAGSTAFF	59	1	1.8	0.3	DETROIT	61	-2	2.5	0.2	PENDLETON	61	-3	0.5	-0.1
PHOENIX	88	3	3.4	2.8	FLINT	60	-1	2.7	0.3	PORTLAND	64	1	1.5	-0.1
PRESCOTT	69	4	2.0	0.6	GRAND RAPIDS	60	-1	2.3	-0.9	SALEM	62	0	1.2	-0.5
TUCSON	82	1	1.8	0.5	HUGHTON LAKE	57	0	1.8	-1.0	PA ALLENTOWN	62	-2	1.1	-2.9
YUMA	91	4	0.1	-0.2	LANSING	59	-2	2.6	0.1	ERIE	62	0	5.2	1.4
AR FORT SMITH	72	-2	6.2	3.0	MARQUETTE	52	-2	4.3	0.3	PHILADELPHIA	65	-3	2.0	-1.4
LITTLE ROCK	71	-2	4.2	0.4	MUSKOGON	59	-2	1.6	-1.2	PITTSBURGH	61	-3	0.9	-1.9
CA BAKERSFIELD	80	3	0.0	-0.1	SAULT STE. MARI	52	-3	5.0	1.1	SCRANTON	61	-3	1.4	-2.0
EUREKA	58	2	0.6	-0.4	MN ALEXANDRIA	54	-3	1.9	-0.4	RI PROVIDENCE	62	-1	1.8	-1.8
FRESNO	81	7	0.0	-0.2	DULUTH	52	-2	3.9	0.7	SC CHARLESTON	73	-3	5.2	0.3
LOS ANGELES	77	7	0.1	-0.1	INT'L FALLS	49	-3	2.5	-0.7	COLUMBIA	72	-3	0.7	-3.5
RSD BLUFF	78	3	0.2	-0.3	MINNEAPOLIS	57	-3	2.8	0.3	FLORENCE	70	-4	1.3	-2.7
SACRAMENTO	76	5	0.1	-0.2	ROCHESTER	56	-3	2.3	-0.7	GREENVILLE	69	-3	1.3	-3.0
SAN DIEGO	79	8	0.0	-0.2	MS GREENWOOD	73	-2	0.6	-2.7	SD HURON	57	-4	0.9	-0.4
SAN FRANCISCO	70	6	0.1	-0.1	JACKSON	75	-1	0.9	-2.6	RAPID CITY	57	-3	0.7	-0.3
CO DENVER	61	-2	0.5	-0.8	MERIDIAN	74	-1	0.8	-2.8	SIOUX FALLS	57	-3	1.6	-1.2
GRAND JUNCTION	68	2	0.3	-0.4	MO CAPE GIRARDEAU	68	-1	4.2	0.5	TN CHATTANOOGA	68	-4	0.5	-3.8
BRIDGEPORT	64	-2	1.7	-1.5	COLUMBIA	66	-2	5.6	1.9	KNOXVILLE	67	-4	0.8	-2.1
HARTFORD	60	-3	1.2	-2.7	KANSAS CITY	66	-2	3.3	-0.9	MEMPHIS	72	-2	2.0	-1.6
DC WASHINGTON	68	-3	2.5	-0.7	SAIN'T LOUIS	68	-1	8.9	6.2	NASHVILLE	69	-3	1.0	-2.7
FL APALACHICOLA	77	-1	1.2	-7.0	SPRINGFIELD	68	-1	4.8	0.6	TX ABILENE	73	-3	3.6	0.5
DAYTONA BEACH	80	0	10.9	4.3	MT BILLINGS	54	-5	1.4	0.2	AMARILLO	66	-4	1.0	-0.7
JACKSONVILLE	75	-3	12.2	5.0	GLASGOW	52	-5	0.8	-0.1	AUSTIN	76	-3	0.8	-2.8
KKY WEST	81	-1	7.4	0.9	GREAT FALLS	52	-5	0.6	-0.4	BEAUMONT	77	-2	4.1	-2.0
MIAMI	80	-2	10.4	2.3	HAVRE	50	-6	0.7	-0.2	BROWNSVILLE	79	-2	19.4	142
ORLANDO	79	-2	6.2	0.7	HELENA	52	-3	0.7	-0.1	CORPUS CHRISTI	78	-3	3.0	-3.1
TALLAHASSEE	78	0	2.5	-3.9	KALISPELL	51	-3	1.9	0.8	DEL RIO	78	-2	2.8	0.1
TAMPA	80	-1	4.2	-1.9	MILES CITY	55	-4	0.7	-0.4	EL PASO	73	-1	1.0	-0.4
WEST PALM BEACH	80	-2	8.2	-1.1	MISSOULA	53	-2	0.8	-0.2	FORT WORTH	76	-2	0.1	-3.2
GA ATLANTA	71	-1	T	-3.1	NE GRAND ISLAND	62	-2	0.2	-2.3	GALVESTON	77	-3	5.1	-0.7
AUGUSTA	73	-2	0.3	-3.2	LINCOLN	63	-2	1.4	-1.5	HOUSTON	77	-1	3.7	-1.2
MACON	73	-3	0.4	-2.9	NORFOLK	61	-2	0.7	-1.4	LUBBOCK	69	-1	0.2	-1.9
SAVANNAH	75	-1	7.3	2.2	NORTH PLATTE	58	-3	0.4	-1.3	MIDLAND	72	-2	1.9	-0.2
HI HILO	75	0	3.8	-2.8	OMAHA	63	-1	3.2	-0.1	SAN ANGELO	72	-4	3.0	-0.1
HONOLULU	81	1	1.3	0.7	SCOTTSDALE	60	-1	0.4	-0.7	SAN ANTONIO	78	-2	1.1	-2.7
KAHULUI	79	1	0.0	-0.4	VALENTINE	58	-3	0.5	-0.9	VICTORIA	78	-2	1.9	-4.4
LIHUE	80	1	2.7	0.4	NV ELY	58	2	3.7	3.0	WACO	77	-2	1.3	-1.9
ID BOISE	60	-3	0.7	0.1	LAS VEGAS	82	2	0.5	0.2	WICHITA FALLS	74	-2	0.8	-2.6
LEWISTON	62	-1	0.2	-0.8	RENO	63	3	T	-0.3	UT BLANDING	64	1	0.9	0.0
POCATELLO	58	0	0.5	-0.2	WINNEMUCCA	60	1	0.6	0.3	CEDAR CITY	65	2	0.0	-0.9
IL CHICAGO	61	-3	3.8	0.5	NH CONCORD	58	-1	1.1	-2.1	SALT LAKE CITY	67	2	1.7	0.8
MOLINE	63	-1	2.3	-1.4	NJ ATLANTIC CITY	66	0	1.3	-1.6	VT BURLINGTON	57	-1	2.8	-0.4
PEORIA	64	-1	2.4	-1.2	NM ALBUQUERQUE	69	0	1.1	0.3	VA NORFOLK	70	-1	1.9	-2.4
QUINCY	65	-2	3.4	-0.8	CLOWIS	66	-3	0.7	-1.2	RICHMOND	67	-3	1.9	-1.6
ROCKFORD	62	-1	1.5	-2.2	ROSWELL	70	-2	1.0	-0.7	ROANOKE	64	-4	2.7	-0.4
SPRINGFIELD	66	-2	4.8	1.8	NY ALBANY	60	-1	1.5	-1.7	WA COLVILLE	54	-3	0.7	-0.1
EVANSVILLE	66	-3	7.0	4.3	BINGHAMTON	58	-1	1.9	-1.4	QUILLAYUTE	56	-1	3.6	-1.8
FORT WAYNE	63	-1	3.0	0.5	BUFFALO	58	-4	3.7	0.4	SEATTLE-TACOMA	60	0	1.1	-1.0
INDIANAPOLIS	64	-2	4.7	2.0	NEW YORK	66	-2	2.7	-0.8	SPOKANE	57	-2	0.6	-0.2
SOUTH BEND	64	0	3.6	0.4	ROCHESTER	60	-2	3.3	0.7	YAKIMA	59	-1	0.4	0.1
IA DES MOINES	62	-2	2.8	-0.3	SYRACUSE	58	-4	2.6	-0.7	WV HECKLEY	60	-3	1.8	-1.6
SIOUX CITY	60	-1	1.4	-1.9	NC ASHEVILLE	63	-4	0.2	-3.8	CHARLESTON	65	-2	3.0	0.0
WATERLOO	60	-1	1.4	-1.9	CHARLOTTE	69	-3	1.7	-1.8	HUNTINGTON	66	-2	2.7	-0.4
KS CONCORDIA	65	-3	3.7	0.7	GREENSBORO	66	-4	1.1	-2.5	PARKERSBURG	66	-1	1.5	-1.4
DODGE CITY	70	1	0.4	-1.5	HATTERAS	73	-1	3.8	-2.0	WI GREEN BAY	57	-1	5.7	2.6
GOODLAND	62	-2	0.2	-1.2	NEW BERN	71	-2	13.9	8.2	LA CROSSE	59	-2	2.8	-0.5
TOPEKA	67	-1	4.2	0.8	RALEIGH	67	-3	2.4	-0.9	MADISON	59	-1	2.8	-0.2
WICHITA	70	0	2.2	-1.3	WILMINGTON	71	-4	18.9	13.2	MILWAUKEE	61	-1	2.2	-0.7
KY BOWLING GREEN	66	-4	2.9	-0.3	ND BISMARCK	53	-4	0.9	-0.4	WAUSAU	56	-1	4.7	0.9
LXINGTON	66	-2	1.3	-1.9	FARGO	54	-3	1.2	-0.6	CASPER	53	-5	0.5	-0.3
LOUISVILLE	67	-2	3.7	0.4	GRAND FORKS	53	-3	0.1	-1.9	CHEYENNE	53	-5	0.6	-0.4
LA ALEXANDRIA	74	-3	2.9	0.2	WILLISTON	50	-6	2.2	0.8	LANDER	55	-2	0.8	-0.1
BATON ROUGE	76	-2	2.3	-2.1	OH AKRON-CANTON	60	-3	2.7	-0.2	SHERIDAN	54	-3	1.9	0.8
					CINCINNATI	66	-2	3.5	0.6	PR SAN JUAN	82	0	3.1	-2.9

Based on 1951-80 normals.

Heating Degree Days (Base 65° F.)

September 1984

ALA. Birmingham . . . . .	12	MAINE, Caribou . . . . .	382	OKLA. Okla. City . . . . .	75
Mobile . . . . .	2	Portland . . . . .	226	Tulsa . . . . .	73
Montgomery . . . . .	4	MD. Baltimore . . . . .	95	OREG. Astoria . . . . .	192
ALASKA, Anchorage . . . . .	460	MASS. Boston . . . . .	144	Burns . . . . .	358
Barrow . . . . .	911	Chatham . . . . .	125	Medford . . . . .	77
Fairbanks . . . . .	535	MICH. Alpena . . . . .	316	Pendleton . . . . .	179
Nome . . . . .	583	Detroit . . . . .	169	Portland . . . . .	78
ARIZ. Flagstaff . . . . .	166	Flint . . . . .	179	Salem . . . . .	115
Phoenix . . . . .	0	Grand Rapids . . . . .	191	PA. Allentown . . . . .	140
Tucson . . . . .	0	Houghton Lake . . . . .	247	Erie . . . . .	142
Winslow . . . . .	9	Lansing . . . . .	211	Harrisburg . . . . .	99
Yuma . . . . .	0	Marquette . . . . .	386	Philadelphia . . . . .	92
ARK. Fort Smith . . . . .	53	S. Ste. Marie . . . . .	393	Pittsburgh . . . . .	165
Little Rock . . . . .	52	MINN. Duluth . . . . .	391	Scranton . . . . .	148
CALIF. Bakersfield . . . . .	0	Internatl Falls . . . . .	471	R.I. Providence . . . . .	128
Eureka . . . . .	192	Minneapolis . . . . .	251	S.C. Charleston . . . . .	9
Fresno . . . . .	0	Rochester . . . . .	274	Columbia . . . . .	7
Los Angeles . . . . .	0	St. Cloud . . . . .	332	Greenville . . . . .	38
Red Bluff . . . . .	0	MISS. Jackson . . . . .	12	S. DAK. Aberdeen . . . . .	310
Stockton . . . . .	0	Meridian . . . . .	8	Huron . . . . .	277
San Diego . . . . .	0	MO. Columbia . . . . .	125	Rapid City . . . . .	262
San Francisco . . . . .	6	Kansas City . . . . .	143	Sioux Falls . . . . .	265
COLO. Denver . . . . .	181	St. Louis . . . . .	103	TENN. Chattanooga . . . . .	28
Grand Junction . . . . .	54	Springfield . . . . .	106	Knoxville . . . . .	44
Pueblo . . . . .	123	MONT. Billings . . . . .	349	Memphis . . . . .	37
CONN. Bridgeport . . . . .	97	Glasgow . . . . .	399	Nashville . . . . .	59
Hartford . . . . .	192	Great Falls . . . . .	410	TEX. Abilene . . . . .	65
D.C. Washington . . . . .	53	Havre . . . . .	452	Amarillo . . . . .	125
FLA. Apalachicola . . . . .	0	Helena . . . . .	374	Austin . . . . .	18
Ft. Myers . . . . .	0	Kalispell . . . . .	429	Beaumont . . . . .	5
Jacksonville . . . . .	0	Miles City . . . . .	322	Brownsville . . . . .	0
Key West . . . . .	0	Missoula . . . . .	362	Corpus Christi . . . . .	3
Miami . . . . .	0	NEBR. Grand Island . . . . .	184	Del Rio . . . . .	11
Orlando . . . . .	0	Lincoln . . . . .	167	El Paso . . . . .	18
W. Palm Beach . . . . .	0	Norfolk . . . . .	196	Fort Worth . . . . .	38
Tallahassee . . . . .	0	North Platte . . . . .	246	Galveston . . . . .	2
Tampa . . . . .	0	Omaha . . . . .	165	Houston . . . . .	6
GA. Atlanta . . . . .	14	Valentine . . . . .	265	Lubbock . . . . .	80
Augusta . . . . .	5	NEV. Ely . . . . .	204	Midland . . . . .	66
Macon . . . . .	5	Las Vegas . . . . .	0	San Angelo . . . . .	59
Savannah . . . . .	2	Reno . . . . .	108	San Antonio . . . . .	9
IDAHO, Boise . . . . .	201	Winnemucca . . . . .	179	Victoria . . . . .	8
Lewiston . . . . .	159	N.H. Concord . . . . .	235	Waco . . . . .	24
Pocatello . . . . .	214	N.J. Atlantic City . . . . .	80	Wichita Falls . . . . .	65
ILL. Cairo . . . . .	72	N. MEX. Albuquerque . . . . .	51	UTAH, Milford . . . . .	132
Chicago . . . . .	189	N.Y. Albany . . . . .	172	Salt Lake City . . . . .	93
Moline . . . . .	171	Binghamton . . . . .	219	VT. Burlington . . . . .	246
Peoria . . . . .	153	Buffalo . . . . .	215	VA. Lynchburg . . . . .	91
Rockford . . . . .	177	New York . . . . .	75	Norfolk . . . . .	15
Springfield . . . . .	127	Rochester . . . . .	168	Richmond . . . . .	73
IND. Evansville . . . . .	79	Syracuse . . . . .	231	Roanoke . . . . .	121
Fort Wayne . . . . .	132	N.C. Asheville . . . . .	107	WASH. Colville . . . . .	M
Indianapolis . . . . .	119	Charlotte . . . . .	47	Quillayute . . . . .	277
South Bend . . . . .	130	Greensboro . . . . .	93	Seattle-Tacoma . . . . .	151
IOWA, Des Moines . . . . .	171	Hatteras . . . . .	3	Spokane . . . . .	254
Dubuque . . . . .	190	Raleigh . . . . .	63	Walla Walla . . . . .	153
Souix City . . . . .	194	Wilmington . . . . .	17	Yakima . . . . .	189
KANS. Concordia . . . . .	157	N. DAK. Bismarck . . . . .	371	W. VA. Beckley . . . . .	191
Dodge City . . . . .	117	Fargo . . . . .	339	Charleston . . . . .	100
Goodland . . . . .	176	Williston . . . . .	442	Huntington . . . . .	100
Topeka . . . . .	145	OHIO. Akron-Canton . . . . .	181	WIS. Green Bay . . . . .	237
Wichita . . . . .	102	Cincinnati . . . . .	103	Madison . . . . .	215
KY. Lexington . . . . .	91	Cleveland . . . . .	177	Milwaukee . . . . .	179
Louisville . . . . .	73	Columbus . . . . .	145	WYO. Casper . . . . .	381
LA. Baton Rouge . . . . .	8	Dayton . . . . .	143	Cheyenne . . . . .	362
Lake Charles . . . . .	7	Toledo . . . . .	173	Lander . . . . .	310
New Orleans . . . . .	2	Youngstown . . . . .	186	Sheridan . . . . .	366
Shreveport . . . . .	19				

Based 1951-80 normals.

## National Agricultural Summary

October 1-7

**HIGHLIGHTS:** Rainfall benefited newly-seeded winter wheat across most of the central Plains and eastern portions of the southern Plains. However, dryness persisted in the other major wheat producing areas. Dry Southeast conditions further stressed double-cropped soybeans, but abnormally cool weather limited growth, thus lessening moisture demand. Northern Delta heavy rains aided soybean development but damaged some cotton with open bolls. Farmers had 4-6 days available for fieldwork in all regions. Soil moisture was short to adequate, but short to very short supplies persisted in portions of the southern Plains and Southeast.

Winter wheat planting lagged normal because of dry conditions in most wheat producing areas; 56% of the acreage was planted and 28% had emerged. Corn matured on 94% of the acreage and 20% was combined; harvesting was slightly behind schedule. Soybean harvesting moved closer to normal, reaching 29% completion. Plants shed leaves on 79% of the acreage. The sorghum harvest was 43% complete, 1 point ahead of schedule. Rice was 76% harvested, slightly ahead of both last year and the average. Cotton opened bolls on 71% of the acreage and picking was complete on 16%, both lagging normal. Apple picking was in full swing while fall vegetable harvesting declined seasonally. Pastures and ranges rated fair to poor in the Delta States, Southeast, and central Plains, and mostly fair to good elsewhere in the Nation. Livestock producers continued supplemental feeding while herd liquidation increased in some areas.

**SMALL GRAINS:** Fifty-six percent of the 1985 winter wheat crop was seeded in the 15 major producing States; well behind last year's 61% and the 66% average. Seeding neared completion in Nebraska. Kansas growers seeded 60% of the intended acreage, 15 points behind normal. In Oklahoma, planting was 30% finished, half last year and the average. Texas growers planted 55% compared with the average of 51%. Rain improved the prospect for newly-seeded wheat in extreme eastern Oklahoma and Texas. However, dry conditions persisted across the remainder of those States. Moderate rainfall brought much-needed relief to the central Plains newly seeded fields. Stands emerged on 28% of the acreage, 9 points behind normal. Emerged stands rated mostly fair.

**CORN:** Corn reached maturity on 94% of the acreage, 2 percentage points ahead of normal. Combining was 20% complete in the 17 major producing States, trailing the 24% average; harvesting lagged normal in all regions. Southeastern producers were 76% finished, 3 points behind normal. In the eastern Corn Belt, 15% was harvested, compared with the normal of 19%. Producers in the western Corn Belt harvested 19%, 4 points slower than normal.

**SOYBEANS:** Soybeans dropped leaves on 79% of the acreage in the 18 major producing States and 29% was harvested. Normally, 79% drops leaves and 30% is harvested. Western Corn Belt combining was 10 percentage points ahead of normal but 11 points behind in eastern Corn Belt. Harvesting was 1 point behind schedule in the Southeast and south-central region. Dry conditions persisted in the Southeast, further stressing double-cropped stands. Heavy rain benefited late-planted soybeans in the Delta States. Abnormally cool temperatures slowed plant growth in both regions.

**COTTON:** In the 14 major producing States, bolls

opened on 71% of the acreage, compared with 80% last year and the 75% average. Harvesting was 16% complete, only 4 points behind normal. Picking was underway in all States except New Mexico. Progress ranged from 5% picked in Oklahoma to 30% complete in Missouri. Cooler Texas temperatures slowed crop development. Frost caused light to moderate damage in some areas of Texas. Heavy rains damaged some cotton with open bolls across northern portions of the Delta States.

**SORGHUM:** Sorghum matured on 79% of the acreage in the 7 major producing States, ahead of the 76% average but behind last year's 85%. Development was slower than normal in South Dakota and the southern Plains. Harvesting was 43% finished, slightly ahead of normal but 8 points slower than last year. South Dakota and Texas combining lagged but was on or ahead of schedule elsewhere. Progress ranged from 15% finished in South Dakota to 70% complete in Texas.

**OTHER CROPS:** In the 5 major rice producing States, 76% of the acreage was harvested, compared with 74% a year ago and the 73% average. Harvesting ranged from 55% finished in California to complete in Texas. Arkansas growers combined 66%, 3 points slower than normal.

Weather conditions were ideal for curing tobacco in most producing regions. Harvesting neared completion in many areas. Producers actively cured, stripped, and marketed their crop. Stalk plowing became widespread.

Peanut digging and threshing gained momentum. Producers dug 20% of their acreage in Texas, 63% in North Carolina, 80% in Mississippi, 87% in Georgia, and 92% in Alabama.

**VEGETABLES:** Fall vegetable harvesting declined seasonally in northern growing areas. Frost halted production in many areas. Maine potato producers dug 80% of their acreage, while Idaho growers were 40% finished. Florida producers continued seeding fall crops. Early planted crops showed good plant growth. Harvesting increased for sweet corn, cucumbers, and squash and began for tomatoes, eggplant, and specialty-type peppers. Showers halted planting in the Texas Rio Grande Valley. High Plains producers harvested carrots, cabbage, and peppers. California producers harvested light to moderate volumes of broccoli, brussels sprouts, cantaloups, carrots, cauliflower, celery, lettuce, and market tomatoes. Processing tomato harvesting was nearly complete.

**FRUITS AND NUTS:** Fall apple picking was in full swing in northern orchards. Florida's citrus groves required increased irrigation. Harvesting increased for fresh fruit shipments. Grove caretakers disinfected equipment moving between groves. Arizona's grapefruit harvest is expected to begin soon. California raisin grape, stonefruit, and Valencia orange harvests neared completion. Growers actively harvested a wide variety of other fruits.

**PASTURES AND LIVESTOCK:** Pastures and ranges rated mostly fair to good condition, except in the Southeast, Delta States, and central Plains where fair to poor conditions persisted. Livestock were in fair to mostly good condition. However, supplemental feeding was necessary in many areas, and livestock marketing continued active in some regions.

**CROP PROGRESS**  
FOR WEEK ENDING OCT 7

**SOYBEANS**  
% DROPPING LEAVES

	1984	1983	AVG.
ALA	64	43	58
ARK	32	48	42
GA	70	49	57
ILL	92	96	96
IND	97	98	94
IOWA	100	98	95
KANS	97	85	75
KY	48	63	59
LA	62	58	56
MICH	100	100	97
MINN	99	99	99
MISS	80	75	83
MO	72	84	74
NEBR	96	100	91
N C	17	24	22
OHIO	95	100	95
S C	28	29	33
TENN	48	69	58
18 STATES	79	81	79

THESE 18 STATES PRODUCED 93% OF THE 1983 SOYBEAN CROP.

**SOYBEANS**  
% HARVESTED

	1984	1983	AVG.
ALA	12	10	14
ARK	4	6	5
GA	6	3	6
ILL	45	70	60
IND	30	60	35
IOWA	64	60	46
KANS	30	30	20
KY	6	10	11
LA	20	13	19
MICH	15	25	14
MINN	52	35	29
MISS	13	10	15
MO	19	38	28
NEBR	30	45	40
N C	1	1	4
OHIO	20	45	30
S C	0	0	0
TENN	2	6	5
18 STATES	29	37	30

THESE 18 STATES PRODUCED 93% OF THE 1983 SOYBEAN CROP.

**CORN**  
% MATURE

	1984	1983	AVG.
COLO	88	82	72
GA	100	100	100
ILL	98	100	99
IND	95	98	90
IOWA	100	100	96
KANS	98	97	90
KY	85	90	95
MICH	100	95	85
MINN	93	97	89
MO	92	98	86
NEBR	96	100	85
N C	99	100	99
OHIO	90	98	90
PA	45	77	65
S DAK	89	100	100
VA	95	98	99
WIS	100	100	100
17 STATES	94	98	92

THESE 17 STATES PRODUCED 90% OF THE 1983 CORN CROP.

**CORN**  
% HARVESTED

	1984	1983	AVG.
COLO	11	12	8
GA	93	91	90
ILL	21	41	28
IND	13	17	15
IOWA	21	54	25
KANS	55	50	40
KY	30	43	41
MICH	10	10	6
MINN	9	34	11
MO	46	69	48
NEBR	15	35	20
N C	73	79	78
OHIO	8	20	15
PA	5	9	9
S DAK	11	29	19
VA	48	55	54
WIS	12	9	9
17 STATES	20	37	24

THESE 17 STATES PRODUCED 90% OF THE 1983 CORN CROP.

**SORGHUM**  
% COLORING

	1984	1983	AVG.
COLO	99	99	96
KANS	96	100	99
MO	100	100	93
NEBR	100	100	100
OKLA	100	100	100
S DAK	96	100	100
TEX	97	98	97
7 STATES	97	99	98

THESE 7 STATES PRODUCED 85% OF THE 1983 SORGHUM CROP.

**SORGHUM**  
% MATURE

	1984	1983	AVG.
COLO	82	94	74
KANS	75	80	65
MO	90	91	81
NEBR	95	95	75
OKLA	65	85	80
S DAK	79	97	87
TEX	77	84	84
7 STATES	79	85	76

THESE 7 STATES PRODUCED 85% OF THE 1983 SORGHUM CROP.

**SORGHUM**  
% HARVESTED

	1984	1983	AVG.
COLO	22	45	11
KANS	25	35	20
MO	50	59	41
NEBR	25	45	25
OKLA	20	20	20
S DAK	15	41	28
TEX	70	69	73
7 STATES	43	51	42

THESE 7 STATES PRODUCED 85% OF THE 1983 SORGHUM CROP.

**RICE**  
% HARVESTED

	1984	1983	AVG.
ARK	66	77	69
CALIF	55	25	33
LA	95	92	95
MISS	80	67	76
TEX	100	100	100
5 STATES	76	74	73

THESE 5 STATES PRODUCED 98% OF THE 1983 RICE CROP.

**COTTON**  
% BOLLS OPENING

	1984	1983	AVG.
ALA	85	91	81
ARIZ	99	92	97
ARK	87	99	87
CALIF	100	85	87
GA	79	82	86
LA	95	94	89
MISS	97	96	98
MO	100	100	97
N MEX	99	75	64
N C	99	100	91
OKLA	70	65	70
S C	87	100	91
TENN	95	99	90
TEX	49	71	62
14 STATES	71	80	75

THESE 14 STATES PRODUCED 99% OF THE 1983 COTTON CROP.

**COTTON**  
% HARVESTED

	1984	1983	AVG.
ALA	26	20	26
ARIZ	7	4	10
ARK	15	45	32
CALIF	7	2	4
GA	15	12	32
LA	25	18	28
MISS	22	26	35
MO	30	59	42
N MEX	0	1	2
N C	17	30	27
OKLA	5	2	2
S C	17	39	32
TENN	12	45	30
TEX	17	17	19
14 STATES	16	17	20

THESE 14 STATES PRODUCED 99% OF THE 1983 COTTON CROP.

**WINTER WHEAT**  
% PLANTED

	1984	1983	AVG.
CALIF	5	1	2
COLO	92	92	93
IDAHO	70	72	64
ILL	25	34	35
IND	25	45	35
KANS	60	60	75
MO	27	35	32
MONT	65	80	75
NEBR	99	100	100
OHIO	35	45	45
OKLA	30	60	60
OREG	27	43	53
S DAK	94	100	98
TEX	55	40	51
WASH	65	75	72
15 STATES	56	61	66

THESE 15 STATES PRODUCED 84% OF THE 1983 WINTER WHEAT CROP.

**WINTER WHEAT**  
% EMERGED

	1984	1983	AVG.
CALIF	0	0	0
COLO	72	69	74
IDAHO	36	37	32
ILL	5	7	8
IND	10	15	15
KANS	25	25	35
MO	10	20	18
MONT	20	50	40
NEBR	70	85	85
OHIO	10	15	10
OKLA	10	20	20
OREG	9	14	23
S DAK	69	80	83
TEX	21	12	27
WASH	55	61	55
15 STATES	28	32	37

THESE 15 STATES PRODUCED 84% OF THE 1983 WINTER WHEAT CROP.

## 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:** Rainfall 0.00 in. south and central, scattered 0.50 to 1.00 in. north. Temperatures averaged 2 to 5° below normal.

Soil moisture very short over the entire State. Fieldwork: 6.7 days. Corn harvested 83%, 91% 1983, 82% average. Soybeans turning yellow 86%, 74% 1983, 82% average. Soybeans dropping leaves 64%, 43% 1983, 58% average. Soybeans mature 38%, 31% 1983, 40% average. Soybeans harvested 12%, 10% 1983, 14% average. Cotton bolls open 85%, 91% 1983, 81% average. Cotton harvested 26%, 20% 1983, 26% average. Peanuts dug 92%, 72% 1983, 73% average. Peanuts combined 82%, 62% 1983, 62% average. Sorghum harvested 70%, 62% 1983, 49% average. Activities: Harvesting corn, sorghum, peanuts, cotton, soybeans, and vegetables; preparing for fall planting and applying lime; and routine care of livestock and poultry. Conditions: Cotton, peanuts and sorghum fair to good; wheat and pastures poor to fair; soybeans poor to mostly fair; livestock mostly fair to good.

**ARIZONA:** Upper level low pressure system crossed State 2nd, 3rd, spreading heavy rain over much of eastern half. Southerly winds brought considerable moisture from subtropics. Precipitation amounts mostly between 0.50 and 2.00 in. Globe had 4.62 in. pelted with baseball size hail morning of 2nd. Yuma, La Paz, Mohave counties received none except few traces. Much cooler air behind storm system lowered temperatures by 5 to 15°. Mostly sunny skies, warming trend prevailed remainder of week. Average temperatures varied from 2 to 7° below seasonal normals.

Cotton 99% open bolls, 92% last year, 97% average. Cotton 7% harvested, 4% last year, 10% average. Defoliation active, many growers still spraying for insect control. Alfalfa seeding for new stands continued. Harvest ranged from active to winding down. Lemon packing moderately heavy. Salt River Valley cantaloupe harvest started some areas, winding down others. Honeydew harvest started, grapefruit harvest expected to begin 14th. Green onions, greens being harvested. Lettuce packing started Willcox area, apple packing complete. Pumpkin harvest underway.

**ARKANSAS:** Record low temperatures early in week with heavy frost in northern sections. Warm at midweek with rain at weekend. Temperatures averaged 5° to 11° below normal. High 85°, low 31°. Most rainfall 6.28 in., least 0.67 in.

Soil moisture was short in the southeast and adequate elsewhere. Cotton condition good; open bolls 87%, 99% 1983, 87% average; harvested 15%, 45% 1983, 32% average. Rice condition good; ripe 90%, 95% 1983, 96% average; harvested 66%, 77% 1983, 69% average. Soybean condition good; yellowing 61%, 71% 1983, 62% average; shedding leaves 32%, 48% 1983, 42% average; harvested 4%, 6% 1983, 5% average. Corn condition good; harvested 85%, 91% 1983, 83% average. Sorghum condition good; harvested 76%, 83% 1983, 84% average. Wheat seeding 9%, 9% 1983, 12% average. Pastures below average northwest to average other areas. Livestock good condition.

**CALIFORNIA:** The week produced no significant departures from normal for temperatures throughout the State. The south coast was

slightly above their temperature normal while the remaining zones were normal to slightly below normal. Temperature extremes included readings of 104° at both Thermal and Imperial, while at the other end of the thermometer, Alturas dipped to 27°. The northern zones of the State were the only districts with precipitation as Pacific storm activity begins to brush the northern areas.

Cotton progressing, 7% harvested, 2% last year, 4% average. Bolls open 100%, 85% last year, 87% average. Some fields shredded for bollworm control. Second defoliants required some fields. Field corn, sugarbeets being harvested. Rice harvest, slowed by rain, 55% harvested, 25% last year, 33% average. Blackeyes, dry beans cut and windrowed. Rain damaged a few windrowed alfalfa fields. Apple, avocado, Coachella Valley date, Calmeria and Emperor table grape, north and central coast wine grape, olive, persimmon, pomegranate, desert lemon, summer grapefruit, almond, pistachio, and walnut harvest continue. Raisin grape, stonefruit, and Valencia orange harvests near completion. New crop Navel oranges are coloring. Broccoli light to moderate supply central coast. Fall broccoli growing well. Reseeded fields germinating Palo Verde Valley. Brussels sprouts harvest increasing. Cantaloupe harvest winding down San Joaquin Valley. Light harvest starting fall desert cantaloupe. Carrots fairly light supply. Cauliflower light to moderate supply central coast. Celery harvest moderate central coast, some curtailment due market condition, some overmature fields disced. Harvest honeydew, miscellaneous melons decreasing. Fall desert fields plagued by whitefly build-up. Lettuce moderate supply central coast. Potato harvest continued Perris-Hemet and Tullake-Butte Valley. Market tomato harvest moderate. Processing tomato harvest nearly finished. Range pasture conditions extremely dry over most State. Fire danger extremely high. Fall calving increasing. Stock water supplies becoming short some areas.

**COLORADO:** Rain showers covered the State 3rd through 5th with snow above 10,000 feet. Precipitation was widespread and heavy with 1.00 in. or more reported in all river basins. Temperatures averaged 2 to 4° below normal.

Moisture late in week has aided winter wheat emergence and prompted final seeding of 85 crop. Winter wheat seeded at 92%, 1983 92%, average 93%. Winter wheat emergence at 72%, 69% in 1983, average 74%. Corn maturity at 88%, 1983 82%, average 72%. Corn harvest 11% complete, 12% in 1983, average 8%. Sorghum maturity at 82%, 94% in 1983, average 74%. Sorghum 15% harvested, 45% 1983, 11% average. Dry bean threshing at 76%, 83% 1983, average 76%. Fall potato harvest 71%, 70% 1983, average 64%. Four days suitable for fieldwork.

**FLORIDA:** The week was unseasonably cool, dry. Except for some light coastal showers southeast, little or no rain fell. Early morning temperatures dropped to near record lows at midweek. Lows in the upper 30's occurred extreme north with 40's elsewhere north, 50's central. Temperatures began to moderate at weekend. Readings averaged up to 8° below normal, north; 6° below, central; 3° below

normal south.

Soil moisture extremely short Panhandle, parts of north; adequate elsewhere. Soybean harvest increased. Dry weather caused premature leaf shedding and pods not filling. Peanut harvest neared completion. Cotton harvest in full swing. Small grain seeding delayed by dry conditions. Planting corn for seed production active in south. Some late hay cuttings made. Sugarcane good condition. Pasture conditions poor to fair, Panhandle; generally fair, northern Peninsula and continue good to excellent elsewhere. Cattle condition mostly fair, Panhandle, generally good elsewhere. Citrus growing areas dry and cool, much irrigation. Good color on early fruit. Harvest increasing for out of State fresh fruit shipments. Grove caretakers disinfecting equipment moving between groves. Near ideal weather prevailed vegetable growing areas. Mild days, cool nights, very light, scattered rainfall occurred. Seeding continues active most fall crops. Early crops up to good stands. Plant growth good. Bloom, fruit set gaining rapidly. Harvest gaining sweet corn, cucumbers, squash. Harvest getting underway tomatoes, eggplant, specialty type peppers. Good volume expected most crops by early to mid-November. Transplanting of winter strawberry crop underway Hillsborough-Manatee area.

**GEORGIA:** Average temperatures for week in low and mid 60's, 2 to 50 below normal for week in north and 5 to 80 below normal in central and south. Rainfall averaged between 0.50 to 0.75 in. below normal for week. Four inch soil temperatures averaged in low and mid 60's in north to mid 70's south.

Soil moisture 1% surplus, 8% adequate, 20% short, 71% very short. Average days suitable for fieldwork: 6.0. Very dry conditions delaying small grain planting. Drought stress on crops and pastures. Harvesting corn, peanuts, soybeans, cotton when possible. Corn harvested 93%, 91% last year, average 90%; condition 54% good, 35% fair, 8% poor. Cotton bolls open 79%, 82% last year, average 86%, 15% harvested, 12% last year, average 32%; condition 4% excellent, 55% good, 35% fair, 6% poor. Peanuts 87% dug, 80% last year, average 84%; 75% threshed, 65% last year, average 73%; condition 6% excellent, 54% good, 34% fair, 4% poor. Soybeans 70% dropping leaves, 49% last year, average 57%; 6% harvested this year and average; 3% last year; condition 19% good, 50% fair, 23% poor, 8% very poor. Late maturing beans hurt. Wheat 5% planted, 10% last year, average 11%. Rye 16% planted, 29% last year, average 24%. Other small grains 12% planted, 19% last year, average 20%. Apples 91% picked, 88% last year, average 94%; condition 62% good, 28% fair, 7% poor. Pecans 1% harvested this year and average, none last year; condition 34% good, 52% fair, 10% poor, 4% very poor. Hay condition 24% good, 43% fair, 27% poor, 6% very poor. Pastures 18% good, 38% fair, 35% poor, 9% very poor. Cattle 48% good, 43% fair, 8% poor. Supplemental feed being fed. Hogs 56% good, 36% fair, 5% poor.

**HAWAII:** Daily record high temperatures, and an all-time record high of 94° on 6th, combined with light trade winds produced humid conditions all week. Rainfall was light and restricted to the windward areas.

The State's two major vegetable growing areas now under mandatory water conservation programs. Most of the Waimea district of Hawaii Island remains on a strict 2-hour a day irrigation schedule in an effort to conserve

reservoir water. Beginning October 8, a mandatory reduction of 25% in water use will go into effect in up country Maui. Kula, also a major vegetable and flower growing region, is part of the affected area. Meanwhile, water reduction programs continued on Oahu but were lifted for the Kapaa area of Kauai. Chinese cabbage shipments will be moderate. Water restrictions have resulted in plant stress and farmers have greatly reduced plantings. Head cabbage production will remain moderate. Head lettuce supplies light to moderate with disease reducing yields. Papaya production continues its seasonal decline.

**IDAHO:** A high pressure system brought sunny skies and warm temperatures to the State. Temperatures averaged near normal statewide. Precipitation was light and widely scattered.

Good weather aided harvesting and fall seeding as 6.6 days were suitable for fieldwork. Potatoes were 40% harvested compared to 38% last year and 41% average. Winter wheat advanced to 70% seeded versus 72% in 1983 and 64% average. The new crop was 36% emerged compared to 37% a year ago and 32% average. The third cutting of alfalfa hay rose to 66% harvested compared to 64% last year and 76% average. Dry beans advanced to 74% harvested compared to 82% a year ago and 76% average. Silage corn was 70% harvested versus 87% in 1983 and 76% average. Corn for grain was 7% harvested compared to 3% last year. Sugarbeet harvest was underway with 14% of the crop dug versus 11% in 1983 and 8% average. Livestock were in good condition with 44% of the cattle and 33% of the sheep removed from summer ranges.

**ILLINOIS:** Temperatures normal to 4° above normal. Precipitation 0.0 to 2.27 in.

Soil moisture 64% adequate, 33% short, 3% surplus. Corn mature 98%, last year 100%, average 99%; harvested 21%, last year 41%, average 28%. Soybean shedding leaves 92%, last year 96%, average 96%; harvested 45%, last year 70%, average 60%. Sorghum harvested 25%, last year 42%, average 34%. Winter wheat seeded 25%, last year 34%, average 35%; 5% emerged, last year 7%, average 8%. Fall tillage of 1985 intended corn and soybean acreage 7%, last year 17%, average 10%. Pasture condition 5% excellent, 49% good, 37% fair, 9% poor. Days suitable for fieldwork: 6.5.

**INDIANA:** Temperatures averaged out close to normal for the week. Highs ranging from upper 60's to lower 70's and lows averaging from upper 40's to lower 50's. Soil moisture supplies were replenished by ample rains throughout the State. Most areas accumulated above normal totals of 0.75 in. or more.

Fieldwork averaged 6.1 days. Topsoil and subsoil moisture short to mostly adequate. Corn 95% mature, 1983 98%, average 90%. Corn 13% harvested, 1983 17%, average 15%. Corn moisture 27%, 1983 22%. Soybeans 30% harvested, 1983 60%, average 35%. Soybeans 97% dropping leaves, 1983 98%, average 94%. Wheat land 57% plowed, 1983 63%, average 69%. Wheat 25% seeded, 1983 45%, average 35%. Wheat 10% emerged, 1983 15%, average 15%. Rye 45% seeded, 1983 60%, average 50%. Tobacco 96% harvested, 1983 91%, average 96%. Silos 93% filled, 1983 95%, average 85%.

**IOWA:** Temperatures mild throughout week, average 3 to 5° above seasonal normals. Statewide average precipitation exceeded normal for first time in ten weeks.

Days suitable for fieldwork; 6.5. Corn harvesting 21% complete, 54% last year, 25% normal. Corn lodging 67% none to light, 30%

moderate, 3% heavy damage. Ear droppage 79% none to light, 20% moderate, 1% heavy. Soybean acreage reaching maturity 95% complete, last year 95%, normal 88%. Soybean harvesting 64% complete, last year 60%, normal 46%. Soybean lodging damage 78% none to light, 21% moderate, 1% heavy. Soybean shattering 63% none to light, 33% moderate, 4% heavy. Sorghum acreage harvested 26% complete, last year 46%, normal 22%. Winter wheat acreage seeding 70% complete, 69% last year, 68% normal. Fall tillage 8% complete, 15% last year, 8% normal. Fall fertilizer application 8% complete, 13% last year, 7% normal. Topsoil moisture conditions 80% short, 19% adequate, 1% surplus. Subsoil moisture conditions 80% short, 20% adequate. Livestock in good condition.

**KANSAS:** Precipitation averaged around 0.50 in. in the northeast and north central and 1.00 in. elsewhere. Temperatures averaged 60° northwest, 63 to 67° elsewhere. These were 1 to 3° above normal.

Sorghum grain 96% turning color, 100% last year, 99% average; 75% mature, 80% last year, 65% average; 25% harvested, 35% last year, 20% average. Soybeans dropping leaves 97%, 85% last year, 75% average; 30% harvested, 30% last year, 20% average. Corn 98% mature, 97% last year, 90% average; harvested 55%, 50% a year ago, 40% average. Winter wheat planted 60%, 60% last year, 75% average; emerged 25%, 25% a year ago, 35% average. Soil moisture short. Pasture and rangeland poor to fair. Days suitable for fieldwork: 5.5.

**KENTUCKY:** Mild and generally dry with widespread rain by weekend. Temperatures for week averaged about 3° below normal. Some areas light frost early in week, little damage reported to crops. Mean temperatures for week were near 60°. Precipitation averaged near normal at about 0.50 in.

Soil moisture 51% short, 46% adequate, 3% surplus. Days suitable averaged 5.5. Tobacco harvest virtually complete; 1% stripped, same as last year and average. Another 8% ready for strip. Little or no houseburn most areas. Corn harvest 30% complete, 43% last year, 41% average; most advanced in western counties. Soybeans 6% harvested, 10% last year, 11% average; 42% shedding leaves or mature but not harvested. Continued mild weather needed to allow late beans to mature. Winter wheat 18% seeded. Sorghum grain harvest one-third complete. Winter hay supplies expected below normal.

**LOUISIANA:** Rainfall amounts ranged from none to 2.89 in. Average temperatures from 7 to 10° below normal. High 91°, low 35°.

Soil moisture generally short to adequate south and west central, and very short to short elsewhere in the State. Days suitable for fieldwork: 6.3. Activities included harvesting hay, rice, sweetpotatoes, cotton, and soybeans; and planting sugarcane and winter wheat. Rice harvest 95% 1984, 92% 1983, 95% average. Corn harvest 99% 1984, 93% 1983, 97% average. Cotton open bolls 95% 1984, 94% 1983, 89% average; harvest 25% 1984, 18% 1983, 28% average; condition good. Soybeans turning color 87% 1984, 83% 1983, 82% average; leaves shedding 62% 1984, 58% 1983, 56% average; harvest 20% 1984, 13% 1983, 19% average; condition fair to good. Sorghum harvest 99% 1984, 92% 1983, 90% average. Winter wheat planting 9% 1984, 13% 1983, 16% average; emerged 2% 1984, 5% 1983, 5% average. Sweetpotato harvest 77% 1984, 72% 1983, 74% average. Sugarcane planting 86% 1984, 89% 1983, 84% average; condition fair. Fall

vegetables condition fair to good. Hay final cutting 95% 1984, 86% 1983, 87% average. Pasture condition fair. Livestock condition fair to good.

**MARYLAND AND DELAWARE:** Maryland: The weather was cool and wet over the entire State. Temperatures averaged 7° below normal. Rainfall averaged 1.44 in. with all areas getting significant rainfall.

Fieldwork average 5.5 days. Topsoil moisture adequate, subsoil moisture short to adequate. Corn condition good to excellent. Corn 90% mature, 1983 95%, average 95%. Corn 45% harvested; 1983 60%, average 55%. Soybeans fair to good condition. Soybeans turning color 90%, 1983 90%, average 80%. Soybeans shedding leaves 55%, 1983 55%, average 50%. Soybeans harvested 5%, 1983 15%, average 10%. Tobacco harvest 98%, 1983 85%, average 95%. Apple harvest 75%, 1983 65%, average 70%. The seeding of small grains proceeding at a normal pace.

Delaware: Cool and wet week. Temperatures averaged 8° below normal. Rainfall averaged 1.52 in.

Fieldwork averaged 5.0 days. Topsoil moisture adequate, subsoil moisture mostly short. Soybean condition poor to fair. Soybeans 90% turning color; 1983 70%, average 85%. Soybeans 65% shedding leaves, 1983 40%, average 50%. Soybean harvest 10% complete; 1983 2%, average 2%. Corn remains in good condition. Corn 95% mature, 1983 100%, average 95%. Corn harvested 45%, 1983 45%, average 50%. Apple harvest 45% complete, 1983 85%, average 85%. Wheat seeded 5%, 1983 5%, average 5%.

**MINNESOTA:** Mild, dry weather predominated the early part of the week with precipitation moving into the State over the weekend. Temperatures averaged 2 to 6° above normal. High: 79°, low: 23°. Precipitation averaged 0.10 to 0.54 in. below normal for the northern 1/3 of the State and east central, and near normal to 0.56 in. above normal elsewhere.

The dry conditions and above normal temperatures provided an excellent week for combining soybeans, sunflowers and corn. Some producers were concerned about corn borer damage to ear shanks; ear droppage loss in the southern half of the State may be heavy. Sugarbeet harvest slowed because of the abnormally high temperatures and the moisture received the latter part of the week. Pasture conditions in the north continued dry and short. Chopping of field corn was nearing completion in many areas. Plowing in the northern half of the State, however, was limited by the dry conditions. Days suitable for fieldwork: 6.1. Topsoil moisture: 18% very short, 25% short, 56% adequate and 1% surplus. Field corn: Mature 93%, 1983 97%, normal 89%; harvested 9%, 1983 31%, normal 11%; moisture content 25%, 1983 26%, normal 29%. Soybeans: Mature 97%, 1983 95%, normal 87%; harvested 52%, 1983 35%, normal 29%; moisture content 13%, normal 13%, 1983 14%. Sunflowers: Bracts turning brown 97%, 1983 95%, normal 91%; harvested 18%, 1983 16%, normal 23%. Sugarbeets: Harvested 29%, 1983 34%, normal 21%. Potatoes: Harvested 88%, 1983 74%, normal 75%.

**MICHIGAN:** Temperatures across the State averaged 4° below normal this week. Highs ranged from the mid 60's to the low 70's and lows from the upper 20's to the upper 30's. Precipitation was light to moderate with the greatest amount falling in the central lower section.

Favorable weather over most of the State allowed farmers to resume harvesting

operations. Statewide 6.0 days suitable for fieldwork. Dry beans 90% harvested, 70% last year, 73% average. Corn silage 80% harvested, 80% last year, 72% average. Corn 100% mature, 95% last year, 85% average. Corn 10% harvested, 10% last year, 6% average. Soybeans 100% dropping leaves, 100% last year, 97% average. Soybeans 15% harvested, 25% last year, 14% average. Third cutting hay 90% baled, 85% last year, 82% average. Wheat 60% planted, 65% last year, 59% average. Fruit and vegetable harvest winding down over the State.

**MISSISSIPPI:** Temperatures below normal early in the week, record lows and earliest frost in 30 years, extremes 29 and 87°. Virtually no rainfall until the 6th when many northern counties received more than 4.00 in. Greatest 24-hour rainfall 8.85 in.

Soil moisture very short. Fieldwork 6.4 days suitable, 6.4 1983, 5.2 average. Main activity crop harvest. Cotton good; 97% open bolls, 96% 1983, 98% average; 22% harvested, 26% 1983, 35% average. Soybeans fair; 80% shedding, 75% 1983, 83% average; 13% harvested, 10% 1983, 15% average. Sorghum good; 75% harvested, 76% 1983, 74% average. Rice good; 80% harvested, 67% 1983, 76% average. Wheat poor; 13% planted, 14% 1983, 19% average. Corn 78% harvested, peanuts 80%, sweetpotatoes 64%. Pasture condition poor. Pecan condition fair to poor.

**MISSOURI:** Temperatures 2 to 50 below normal. Rain came over weekend, ranging from 0.10 in. in north to 3.50 in. in the southeast Bootheel area.

Days suitable for fieldwork: 5.9. Soybeans dropping leaves 72%, 84% last year, 74% normal. Soybeans mature 49%, 69% last year, 56% normal. Soybeans harvested 19%, 38% last year, 28% normal. Corn mature 92%, 98% last year, 86% normal. Corn harvested 46%, 69% 1983, 48% normal. Sorghum mature 90%, 91% last year, 81% normal. Sorghum harvested 50%, 59% last year, 41% normal. Cotton opening bolls 100%, 100% last year, 97% normal. Cotton harvested 30%, 59% last year, 42% normal. Land tilled for spring planted crops 19%, 17% last year, 15% normal. Wheat planted 27%, 35% last year, 32% normal. Wheat emerged 10%, 20% last year, 18% normal. Condition of pasture 22% good, 64% fair, 14% poor. Topsoil moisture supply 3% surplus, 64% adequate, 33% short.

**MONTANA:** Very pleasant week with sunny warm days and clear mild nights. Daytime temperatures in 60's and 70's throughout State with some 80's across eastern sections midweek. No precipitation.

Topsoil moisture short except in south central and west. Subsoil moisture short except west of Continental Divide. Days suitable for fieldwork: 6.5. Crops harvested compared with last year and average: Corn silage 90, 90, 85; dry beans 80, 95, 80; potatoes 55, 60, 35; sugarbeets 10, 15, 10. Winter wheat planted 65%, last year 80%, average 75%; winter wheat emerged 20%, last year 50%, average 40%. About 65% of cattle and sheep moved to winter pastures.

**NEBRASKA:** Rains second half of week. Precipitation ranged from 0.50 in. Panhandle to 2.00 in. east. Temperatures averaged 2 to 50 above normal.

Winter wheat condition rated 20% poor, 44% fair, 36% good. Wheat planted 99%, 100% 1983, 100% average. Wheat emerged 70%, 85% last year, 85% average. Soybeans shedding leaves 96%, 100% last year, 91% average. Soybeans harvested 30%, 45% last year, 40% average. Sorghum ripe 95%, 95% last year, 75% average. Sorghum harvested 25%, 45% last year, 25% average. Corn mature

96%, 100% last year, 85% average. Corn harvested 15%, 35% last year, 20% average. Topsoil moisture 52% short, 45% adequate, 3% surplus. Subsoil moisture 75% short, 25% adequate. Average number of days suitable for fieldwork was 5.5.

**NEVADA:** Low pressure trough brought much cooler temperatures and light precipitation early in period. Except for extreme south, all areas had some rain midweek. Temperatures recovered to near seasonal levels as the weekend approached. Extremes: 95 and 21°.

Potato harvest resumed as fields dried. Alfalfa seed and small grain combining about completed for 1984 season. Hay harvest in windup stage. Good progress digging onions. Garlic and winter grain planting operation in progress. Livestock good condition.

**NEW ENGLAND:** Temperatures averaged 5 to 100 below normal, ranging from the 30's in extreme north to 50's south. Most of the region received over 1.00 in. of precipitation early in the week. Mild midweek was followed by very cold weekend temperatures and heavy frost on the 6th.

Soil moisture supplies and grazing availability short to adequate. An average of 5.0 days suitable for fieldwork. Maine potatoes 80% harvested, 90% last year, on schedule with normal. Silage corn 75% chopped, 70% last year. Third cur hay 90% complete. Apples, 60% picked. Cranberry harvest in full swing with excellent crop expected.

**NEW JERSEY:** Temperatures averaged 60 below normal. Extremes were 22° on the 6th and 73° also on the 6th. Weekly rainfall averaged 0.76 in. north, 0.84 in. central and 0.92 in. south. The heaviest 24-hour total was 1.17 in. on the 1st to 2nd. Estimated soil moisture, in percent of field capacity, averaged 86% north, 91% central and 91% south. Four inch soil temperatures averaged 49° north, 54° central and 55° south.

Fieldwork: 5.0 days suitable. The main farm activities included harvesting vegetables and apples, planting small grains and overseeding hay and pastures. Fall crop prospects continue good.

**NEW MEXICO:** Average temperatures little below normal statewide. Minimum temperature: 27° northern mountains. Maximum temperature: 85° northeastern plains. Significant rains produced by decaying tropical storm in western Mexico. Precipitation totals between 0.50 and 1.00 in.

Soil moisture supplies very short to adequate. Alfalfa fair to good; fourth cutting virtually completed, fifth continued. Cotton fair to good, major harvest activities to begin soon. Corn good to excellent; grain harvest continued. Barley good to excellent; nearly all acceptable stands. Irrigated wheat good to excellent, dryland fair to good. Acceptable stand over 50%. Irrigated, dryland grain sorghum good to excellent; grain harvest continued. Pecans good; harvest due to start in November. Apples good; harvest neared completion. Peanuts good, digging continued. Chile good; harvest neared completion. Lettuce good; harvest began. Cattle and sheep good to excellent; showing good gains. Range good to excellent; grass heading. Tank water supplies good. Cotton open bolls: 99%, last year 75%, average 64%; harvested 0%, last year 1%, average 2%.

**NEW YORK:** The week began mild, with temperatures cooling during the week. Low

readings dropped to the mid-teens and 20's by the end of the week. Temperatures were 5 to 10° below normal, mostly in the 40's except in the New York City and Long Island area, where temperatures were in the low to mid 50's. Most precipitation occurred 1st through 3rd, with below normal amounts of less than 0.50 in. in western sections and near to above normal amounts elsewhere ranging from 0.50 to 1.50 in.

The corn crop that was already 2 to 3 weeks behind normal was hit by a frost. Lodging a problem because of corn borer. Corn silage harvesting which has been slowed by wet fields, now 29% complete. This trails both the 55% average and last year's 61%. Third cutting alfalfa now 80% complete, ahead of the 76% average but behind last year's 86%. The apple harvest slowly advancing into the later varieties. The McIntosh harvest virtually complete. The eastern counties finishing golden and red delicious. Harvesting of most major vegetables nearly over for the season. Harvesting of a few late season speciality crops continuing. The cabbage and cauliflower crops doing well. Onion growers harvesting.

**NORTH CAROLINA:** Temperatures averaged 5 to 10° below normal statewide. Precipitation was received by all areas of the State and ranged from 0.13 to 2.31 in.

Soil moisture: 4% very short, 22% short, 70% adequate, 4% surplus. Days suitable for fieldwork: 5.3. Condition: Cotton 31% fair, 65% good, 4% excellent. Peanuts 4% poor, 36% fair, 55% good, 5% excellent. Soybeans 12% poor, 36% fair, 49% good, 3% excellent. Sweetpotatoes: 3% poor, 35% fair, 59% good, 3% excellent. Apples 23% fair, 71% good, 6% excellent. Sorghum 32% fair, 62% good, 6% excellent. Phenological stages: Cotton open bolls: 99%, 1983 98%, 91% average. Corn mature: 99%, 1983 100%, 99% average. Soybeans dropping leaves: 17%, 1983 24%, 22% average. Harvest: Burley tobacco 99%, 1983 94%, 96% average. Corn for silage 95%, 1983 95%, 95% average. Corn for grain 73%, 1983 79%, 78% average. Sweetpotatoes 40%, 1983 24%, 48% average. Apples 79%, 1983 62%, 70% average. Sorghum grain 53%, 1983 36%, 48% average. Cotton 17%, 1983 30%, 27% average. Peanuts dug 63%, 1983 4%, 32% average. Peanuts threshed 35%, 1983 3%, 21% average. Major farm activities: Corn grain harvest, planting small grains, preparing ground for small grains, picking cotton, baling hay, harvesting apples, digging peanuts and sweetpotatoes, cutting corn and sorghum silage, and general farm maintenance.

**NORTH DAKOTA:** Mild temperatures prevailed over entire State. Temperatures from 1.10° above normal north central to 4.50° above normal east central. Extremes ranged from 85° south central to 14° northeast. All precipitation occurred as rain. Greatest rainfall in western half of State. Highest rainfall amount of 1.15 in. southwest and 1.07 in. northwest. Scattered light rainfall occurred eastern half of State.

Warm, dry weather early part of week accelerated maturing and harvesting of late season crops. Soybean and potato harvest well ahead average and last year. Sunflower and corn for grain equal to average but behind last year. Rain received end of week halted most harvesting. Sugarbeet lifting halted due to warm temperatures. Soil moisture below last year and average but improved since previous week. Topsoil moisture supplies 88% short or very short and 12% adequate. Average 43% short or very short, 51% adequate and 6% surplus. Subsoil 100% short or very short. Percent harvested compared to last year and average: Sunflower 15, 22, 13; soybeans 75, 58, 43; corn

for grain 25, 53, 24; potatoes 94, 74, 78; sugarbeets 36, 39, 23.

**OHIO:** Temperatures near normal to 1 to 4° below normal. Range from low 30's to mid-70's. Precipitation near normal, most totals 0.40 to 0.50 in. Soil temperatures averaged mid to upper 50's.

Topsoil moisture 25% short, 75% adequate; 5.0 days suitable for fieldwork. Main activities harvesting corn for grain and silage, combining soybeans, planting winter wheat. Corn mature 90% 1984, 98% 1983, 90% average; harvested 8% 1984, 20% 1983, 15% average. Soybeans dropping leaves 95% 1984, 100% 1983, 95% average; harvested 20% 1984, 45% 1983, 30% average. Winter wheat planted 35% 1984, 45% 1983, 45% average; emerged 10% 1984, 15% 1983, 10% average; condition fair to good. Pasture condition fair to good.

**OKLAHOMA:** Temperatures averaged 8° below normal north central and northeast to 5° below normal across south. Precipitation averaged 0.04 in. central to 2.34 in. southeast.

Wheat pasture prospects remain dim west. Prolonged dryness caused heavy cattle marketings due to poor grazing. Some row crop development halted by early frost. Wheat, sorghum, and cotton fair, pastures fair to poor, cattle good to fair condition. Wheat planted: 30%, 60% 1983, 60% average. Wheat emerged: 10%, 20% 1983, 20% average. Sorghum mature: 65%, 85% 1983, 80% average. Sorghum harvested: 20%, 20% 1983, 20% average. Cotton open bolls: 70%, 65% 1983, 70% average. Cotton harvested: 5%, 2% 1983, 2% average.

**OREGON:** Up to 0.40 in. of precipitation in south at midweek. At end of week 0.60 in. at coast and in Willamette Valley. Rest of State was dry. Temperatures in west were 3° warmer than normal; in east were 1° below normal.

Seeding of winter wheat slow due to dry topsoil. Crop 34% seeded and 9% emerged. Last year, 43% seeded and 14% emerged. On average, 53% and 23%. Grain harvest at high elevations of the east to be complete this week. Haying continues. Near Hermiston, corn silage harvest nearly complete, corn for grain just starting. In central areas, mint receiving final irrigation. In Malheur County, dry bean harvest finished, sugarbeet harvest just started. In west, grass and clover being seeded. Filbert harvest has begun; nut sizes good, yields slightly above average. Walnuts maturing with considerable blight losses. Prune harvest complete. Red raspberry training. Sprays on strawberries, caneberries and blueberries. Along coast, cranberry harvest about 5% complete; color good, but size somewhat small. Easter lily harvest. Winter pear harvest continues in upper Hood River Valley. In lower valley, apple harvest underway, crop quite variable. Potatoes: Hermiston-Boardman area crop going into winter storage; harvest underway in central area; Klamath County digging in full swing, yields average, sizes small; Malheur County about half harvested; harvest underway in Willamette Valley. Onions: Harvest started at Hermiston-Boardman; Malheur County 75% harvested; Willamette Valley 50% harvested. In west, sweet corn harvest continues. Fall planted vegetables being sprayed. Livestock in good condition. Cattle coming off grazing allotments. Feeder lambs have short feed because grass seed fields have not grown back well. Eastern range in good condition; in the west pastures fair.

**PENNSYLVANIA:** The week began cool and rainy, with all stations reporting some precipitation

both 1st and 2nd. Heaviest amounts were in the west and central areas. Movement of a cold front through the State midweek brought even cooler temperatures along with clearing skies. There was a killing freeze in the north central and north eastern divisions. The week's low reading was 23° at Emporium on the 6th. Another cold front dropped from the north early 5th, and the trailing high pressure system supplied the State with a clear cool fall weekend. The statewide average temperature was 50°, 5° below normal. Average precipitation was 0.59 in., 0.09 in. below normal. This was the 7th consecutive week of below normal precipitation.

Days suitable: 5.0. Moisture mostly adequate to short. Activities: Fall plowing: seeding small grains; making hay; harvesting ensilage, corn for grain, green chop, potatoes, apples, grapes, cabbage and cauliflower. Potatoes 80% harvested, last year 80%. Corn for grain, 45% mature and 5% harvested, last year 77% mature and 9% harvested, average 65% mature and 9% harvested. Fall plowing 79% complete, same as last year, average 82% complete. Barley 80% planted, last year 84%. Wheat 75% planted, last year 63%. Third crop alfalfa 92% harvested, last year 94%. Fourth crop alfalfa 50% harvested, last year 60%. Quality of hay made mostly fair to good. Feed from pastures average to below average.

**PUERTO RICO:** Island average rainfall 1.12 in. or 0.75 in. below normal. Highest weekly total 3.83 in. Highest 24-hour total 2.28 in. Temperature averaged about 79 to 78° on coasts and 78 to 74° interior divisions. Mean station temperature ranged from 82.1 to 68.8°. Extremes 94 and 60°.

**SOUTH CAROLINA:** Cooler air over the State early in the week, some frost in mountains. Temperatures climbed during week, some above normal readings. Rainfall mostly light to moderate. Scattered rains occurred early in week and over weekend.

Soil moisture mostly short. Days available for fieldwork: 5.7. Soybean condition fair, 65% leaves turning, 53% last year, 61% average; 28% shedding leaves, 29% last year, 33% average; 11% mature, 5% last year, 10% average. Cotton condition good, 87% bolls open, 100% last year, 91% average; 17% harvested, 39% last year, 32% average. Sorghum condition fair; 58% harvested, 64% last year, 52% average. Tobacco harvesting complete, 82% stalks destroyed, 79% last year. Apple harvest winding down; 85% harvested, 84% last year, 89% average. Small grains conditions poor to fair; wheat 2% planted, 3% last year, 2% average; oats 10% planted, 12% last year, 11% average; rye 9% planted, 15% last year, 17% average; barley 13% planted, 11% last year, 12% average.

**SOUTH DAKOTA:** Average temperatures were 1 to 5° above normal. Extremes: 86 and 110. Outside the Black Hills the low was 19°. Showers were scattered and concentrated around the Black Hills and the southeastern third of the State.

Days suitable for fieldwork: 6.0. Topsoil moisture short over most of the State. Adequate supplies northeast and other scattered areas; critically short in west central. Harvesting row crops and hauling hay were main farming activities. Range and pastures fair to good condition. Livestock good. Sorghum harvested 15%, 1983 41%, average 28%. Sorghum turning color 96%, 1983 100%, average 100%. Sorghum mature 79%, 1983 97%, average 87%. Corn harvested 11%, 1983 28%, average 19%. Corn mature 89%, 1983 100%, average 100%. Winter

wheat planted 94%, 1983 100%, average 98%. Winter wheat emerged 69%, 1983 80%, average 83%.

**TENNESSEE:** A high pressure system dominated the State's weather through the week. By the weekend moist southerly flow in combination with an upper level disturbance brought rain to the middle and west sections of the State. Heavy rain in the northwest over the weekend caused flooding to some farmlands in the extreme northwest. Temperatures showed a wide range. Frost was reported on the 1st and 2nd and Nashville and Crossville reported lows of 32°. By the 4th temperatures warmed to near 80°. Precipitation began in the west late on the 5th, largest storm totals were in the northwest where over 8.00 in. of rain fell.

Farmers averaged 6.5 days of fieldwork. As of the 5th soil moisture levels were rated: 10% adequate, 90% short. Corn mature: 91%, 1983 93%, average 92%; harvested: 32%, 1983 45%, average 39%. Cotton open bolls: 95%, 1983 99%, average 90%; harvested: 12%, 1983 45%, average 30%. Soybeans yellowing leaves: 90%; shedding leaves: 48%, 1983 69%, average 58%; mature: 10%, 1983 22%, average 19%; harvested: 2%, 1983 6%, average 5%. Tobacco harvested: burley: 98%, 1983 95%, average 93%; dark-fired: 93%, 1983 91%, average 89%; dark air-cured: 97%, 1983 95%, average 93%. Wheat acreage sown: 18%, 1983 17%, average 26%. Sorghum mature: 76%, harvested: 28%, 1983. Pastures in mostly poor condition and supplemental feeding of livestock continues to be reported.

**TEXAS:** Record low temperatures early week North, Central, East Texas in wake of first significant cold front of season. Midweek developing upper level storm Arizona pushing clouds, scattered showers into West Texas. Low stalled, scattered showers and thunderstorms continued weekend. Thunderstorm activity intensifies late 6th and 7th, heavy amounts rain eastern two-thirds of the State. Temperatures near normal statewide, except Trans-Pecos, Edwards Plateau, where slightly cooler. Rainfall averaged 0.25 in. above normal across parched North, Central, East Texas. Most South Texas, Coastal Plains below normal, remainder State near normal.

**Crops:** Scattered showers, cooler temperatures covered State. Light to moderate frost areas High Plains, some damage to crops. Progress Plains slowed because cooler weather. Planting small grains continues, where adequate moisture exists. Range grasses greening up slightly, where moderate showers fallen. Livestock feeding continues. Cotton progress slowed by cooler temperatures, frost. Some light to moderate damage occurred from frost. Crop looks good High Plains. Heavy losses from dry weather few counties southern High, Low Plains. Elsewhere in plains, crop development slow. However, prospects look good most areas. Harvest continues East Texas, better than average yields. Trans-Pecos cotton maturing rapidly. Current condition 65% of normal compared with 60% last year. Reported conditions 2%, excellent; 48% good; 25% fair; 24% poor; and 1% failure. Sorghum harvest continued most of week until showers, frost temporarily halted operations High Plains. Yields better than average. Some frost damage many fields. Harvest should pick up when drier conditions exist. Reported condition 66% of normal compared with 60% a year ago. Current conditions 2% excellent, 48% good, 27% fair, 20% poor, and 3% failure. Corn harvesting good progress. Late week showers, frost temporarily halted operations. Harvest pick up as conditions improve. Above average yields reported. Harvest winding down soon. Peanut

harvest continues Central Texas as conditions permit. Irrigated yields fair. Warmer temperatures needed Low Plains. Most fields been dug South Central Texas. Small grain planting pick up most areas, soil conditions improved with recent showers. Planted fields benefit from moisture. Many producers South Central Texas wait for rain. Favorable moisture not received; some producers dusting in crops. Many fields emerging as rainfall occurs. Late varieties soybeans maturing rapidly. Good progress from High Plains to Upper Coast. Harvest late varieties begin two to three weeks.

Cotton open bolls 49%, 71% 1983, 62% average; harvested 17%, 17% 1983, 19% average. Sorghum turning color 97%, 98% 1983, 97% average; mature 77%, 84% 1983, 84% average; harvested for grain 70%, 69% 1983, 73% average. Wheat planted all purposes 55%, 40% 1983, 51% average; emerged 21%, 12% 1983, 27% average. Corn harvested for grain 86%, 92% 1983, 83% average. Peanuts harvested 20%, 21% 1983, 31% average. Soybeans harvested 32%, 9% 1983, 12% average. Sugarbeets harvested 20%, 6% 1983, 3% average. Sunflowers harvested 38%, 24% 1983, 32% average. Oats planted for all purposes 45%, 33% 1983, 40% average.

Commercial vegetables: Rio Grande Valley, good progress fall-planted vegetables on well-drained fields. Planting began again; showers halted operations. Some cucumbers harvested. Citrus regrowth good, showers alleviated irrigation needs. High Plains, pepper, carrot, cabbage harvest continues. Cucumber harvest good progress. San Antonio-Winter Garden, fair stands carrots, onions, lettuce. Acreage expected down from a year ago. Trans-Pecos, pepper harvest continuing. Good yields reported. East Texas, sweetpotato harvest continues, production down because smaller sizes. Quality good. Other vegetables good progress. Pecan harvest underway South Texas, fair to poor yields expected. Other areas, nuts opening rapidly. Harvest spread into Central Texas soon.

Range and livestock: Rains helped rangeland many areas. Cooler temperatures slightly offset beneficial rainfall, both growth and greening slowed. Last cutting hay many areas. Livestock good to fair condition. Supplemental feeding continue, necessary throughout winter because lack of winter pastures.

UTAH: Storminess was general throughout State latter 2/3 week. Precipitation mostly heavy east and southeast divisions, generally light to moderate rest of State with heavy accumulations at few stations. Maximum temperatures averaged 4.50 below normal, ranging normal to 12° below. Minimums averaged normal, ranging 4° below to 6° above.

State averaged 6.0 days available for fieldwork although east and southeastern section averaged only 3.0 days. Harvesting operations made good progress; chopping of silage corn 65% complete; third crop alfalfa 76%; dry onions 48% and potatoes 58%. Dry bean harvest held up by rain. An excellent peach crop virtually picked and in the sheds. Apple picking now in progress, about 20% picked thus far. Corn for grain 83% dented or past. About 78% considered safe from hard frost. Cattle moving down from summer ranges mostly in excellent condition.

VIRGINIA: Wet on first and second then changed to rain-free by midweek. Temperatures gradually warmed during period but still ended up a few degrees below normal. Rainfall amounts 0.50 in. to 1.50 in. gave way to dry days from third on.

Rain early part of period improved soil moisture conditions. Topsoil moisture rated 25% short, 75% adequate. Days suitable for

fieldwork averaged 4.8. Maturity reached by 95% of corn crop, 98% last year, 99% average. Harvest of grain corn 48% complete, 55% last year, 54% average. Silage 90% cut, 95% last year, 91% average. Corn yields still reported good to excellent. Soybean conditions improved with rain, rated good to excellent. Previous dry weather hurt yield prospects some. Insect damage very light. Harvest 1% complete. Tobacco harvest virtually complete. Curing and marketing are major activities. Flue-cured tobacco 98% complete, 96% last year, 99% average. Peanut conditions good to excellent. Rain improved harvest conditions. Harvest ahead of normal, 52% dug, 18% last year, 41% average. Combining 26% complete, 8% last year, 25% average. Peanut quality excellent, yields average. Apple harvest ahead of normal, 69% complete, 44% last year, 55% average. Small grain planting more active since rain. Oats 34% seeded, 35% last year, 42% average. Barley 29% seeded, 38% last year, 32% average. Wheat 13% planted, 14% last year, 12% average. Sorghum harvest 12% complete, 8% last year. Weather conditions very favorable for fall fieldwork, sowing cover crops active. Livestock marketing active statewide.

WASHINGTON: Precipitation midweek west of the mountains but little if any rain in east where dry soil conditions slowed fieldwork.

Winter wheat seeding continued but was running behind average due to dry conditions. Emergence at 55% was equal to the average. Apple harvest well underway. Grape harvest in full swing. Potato digging continues as does cauliflower and broccoli harvest. Feed supplies adequate. Livestock movement to fall pastures continues. Winter wheat seeded: 65%, 75% 1983, 72% average; emerged: 55%, 61% 1983, 55% average.

WEST VIRGINIA: Temperatures nearly 50° below normal. Low of 29° reported in Elkins and Green Bank. High of 79° in Lewisburg. Precipitation well above normal, except northwest was near normal. Most rainfall in Webster Springs 1.71 in., least 0.42 in. at Martinsburg.

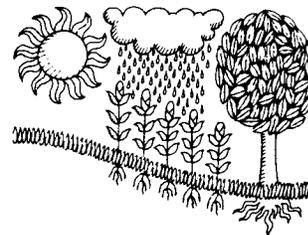
Soil moisture adequate to short. Days worked 4.6. Main activities: Filling silos, harvesting hay and general maintenance.

WISCONSIN: Farmers experienced a relatively dry week with a good deal of sunshine and above normal temperatures. Widely scattered showers occurred the 4th and 5th, and increased the 6th and 7th. Precipitation ranged from 0.50 to 1.50 in.

There were several days of good drying weather to start the week, both for haying and the drying down of corn. Farmers were busy with all types of fall chores such as plowing, erecting snow fences, harvesting and silo filling, manure hauling, gathering wood and the planting of rye and winter wheat. Soils supported machinery well. There was an average of 6.0 days suitable for fieldwork. Soil moisture was 19% short, 72% adequate and 9% surplus. Corn for grain was 12% harvested, 9% last year and 9% average. Silo filling was a breeze according to many farmers, 75% complete, 57% last year, 54% average. Corn was drying down real fast as a result of killing frosts and hot, dry and windy weather. Much of the late planted corn intended for grain was caught by frost and was converted to silage. Soybeans were 17% harvested, 12% last year, 10% average. Fall plowing was 20% complete, 18% last year, 14% average. Winter wheat and rye were still being planted. Early plantings had sprouted. Cranberry harvest was getting into full swing. Potato harvest continued.

(continued on p. 23)

(continued from p. 9)



Oklahoma producers dusted in wheat seed in the west, while late month rain enhanced plantings in eastern areas. By September 30, planting reached 20 percent, half the normal pace. Five percent of the seeded acreage had emerged, one-third the average.

Showers at the end of September provided necessary moisture for recently seeded fields across central and eastern Texas. However, many producers in other areas of the State waited for additional rain before resuming sowing. Many wheat fields had not emerged because of the lack of moisture. By the end of the month 43 percent of the acreage was planted and 16 percent emerged, both slightly ahead of normal.

Winter wheat germination was mostly fair in Montana. Late month snow provided much-needed moisture to most areas. Seeding advanced slowly, reaching 45 percent complete by September 30. Normally 60 percent is seeded by this date.

In the Pacific Northwest, planting was slightly ahead of schedule except in Oregon where limited moisture supplies delayed progress.

Seeding was generally behind schedule in much of the Corn Belt as showers delayed activities in many areas. Emergence was only slightly behind normal.

(continued from p. 22)

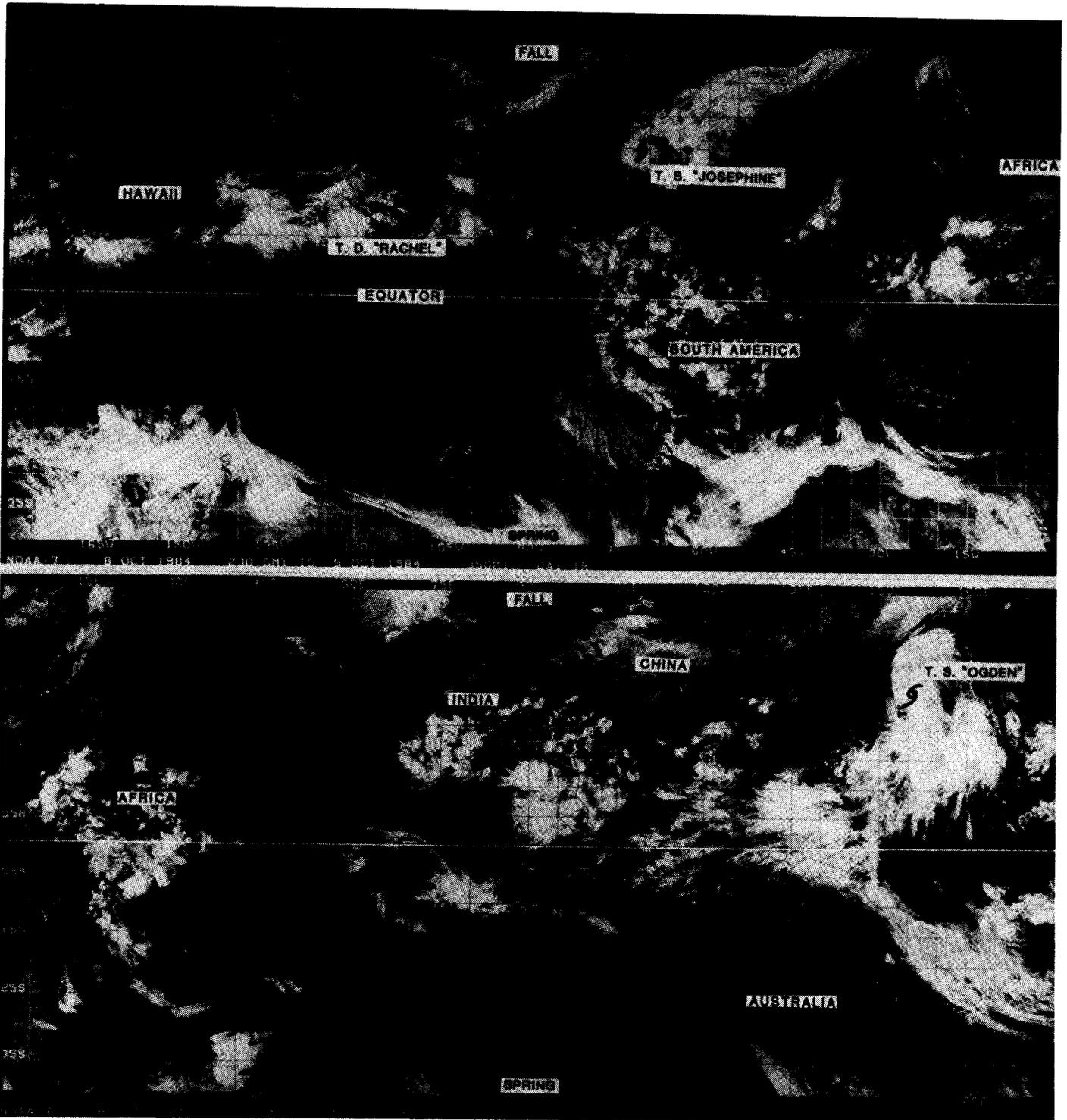
**WYOMING:** Temperatures below normal except for plains of northeast. Large variations of 500 common. Western 2/3 spotty light precipitation. Eastern 1/3 well above normal.

Topsoil moisture adequate 60% State. Days suitable for fieldwork: 6.0. Winter wheat seeding winding down; emerged 75%, mostly good condition. Sugarbeets, 20% dug, average sugar content, 15.7%. Normally, 9% dug. Potatoes, 75% harvested. Corn for silage, 90% harvested; corn for grain, 20% harvested. Normally, 82%, 9% respectively. Dry beans, 80% combined. Prospects for grazing; mostly good. Livestock moved from higher elevations. Other activities: Weaning calves, selling yearlings, pregnancy-testing cattle. Stock water supplies, mostly adequate.



# TROPICAL WEATHER

Oct. 8-9

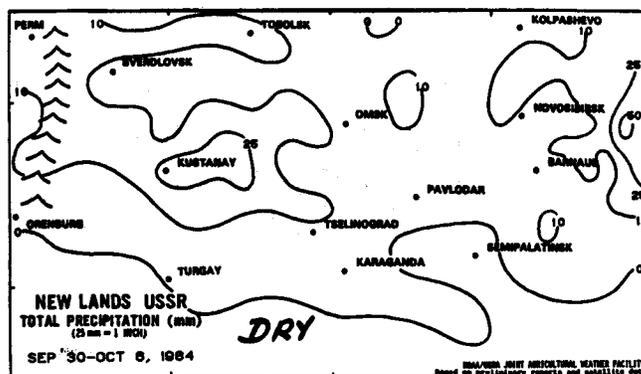
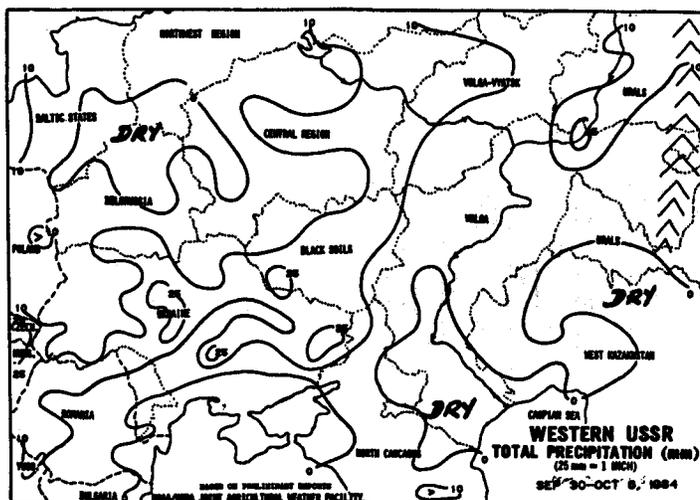
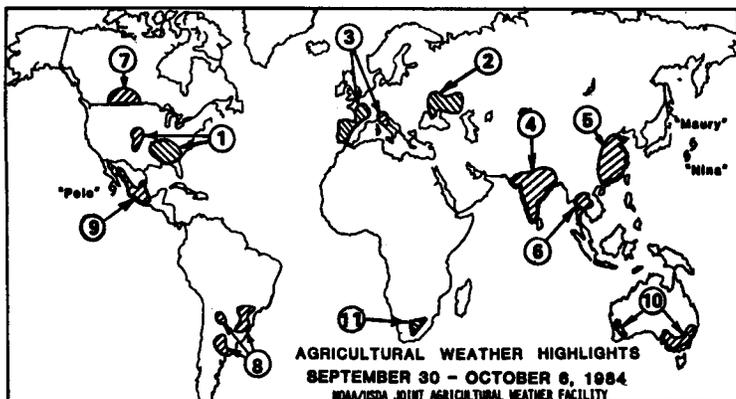


## International Weather and Crop Summary

### Sept. 30 to Oct. 6

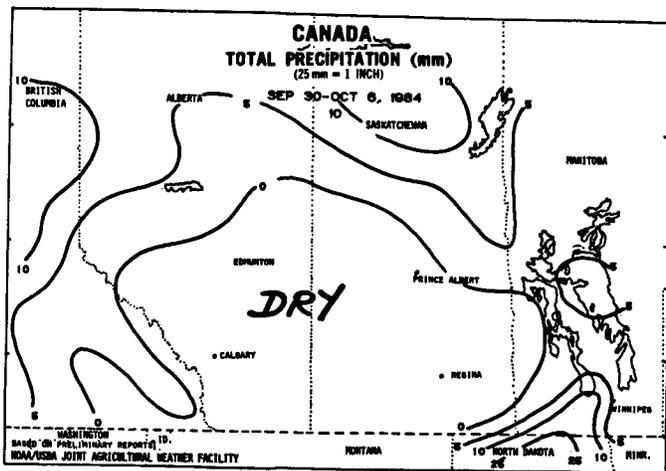
**HIGHLIGHTS:**

1. UNITED STATES ... Long-awaited rain moistens western central Plains wheatlands. Coolness and persistent dryness keep southeastern soybeans developing very slowly, while heavy rain generally helps Delta soybeans.
2. USSR ... Eastern Ukraine showers improve winter wheat planting conditions. Mostly dry weather aids harvesting in the southern Ukraine and North Caucasus, but more rain is needed for winter grain planting.
3. EUROPE ... Heavy rain accompanied cool weather in France and northern Italy, producing localized flooding and delaying the corn harvest. The Iberian Peninsula crop areas receive significant showers in the west and north, which may promote winter grain planting.
4. SOUTH ASIA ... The monsoon season is coming to a close as rain remains in the southern peninsula. Wheat is normally planted in October, and moisture should be sufficient in most areas.
5. EASTERN ASIA ... Early-week rain continues to hamper summer crop harvesting. Late-week favorable dry weather possibly allows some fieldwork.
6. SOUTHEAST ASIA ... Precipitation continues in Thailand, benefiting southern rice, but drier weather would favor northern maturing rice.
7. CANADA ... Generally dry weather recently improves conditions for combining the remaining Alberta crop acreage. The harvest is virtually complete elsewhere in the Prairie Provinces.
8. SOUTH AMERICA ... In Argentina, showers fall in the east and dryness occurs in the west. Sufficient moisture is available for wheat growth and corn planting. In Brazil, heavy showers again in Rio Grande do Sul promote weed growth and delay fieldwork, but dry weather aids wheat harvest and cotton planting in Parana and Sao Paulo.
9. MEXICO ... Tropical rains continue at a peak in parts of the south, but decrease and favor harvesting in the north.
10. AUSTRALIA ... Showers over the wheat belt aid crop development ranging from the southern late vegetative growth to the eastern early grain forming.
11. SOUTH AFRICA ... The corn planting season is October through December. Adequate moisture is not yet available for emergence and establishment.



USSR... Showers (10-25 mm) stretched northeastward from the eastern Ukraine, through the Black Soils, into the Volga Vyatsk Region. The rain improved moisture conditions for winter grain planting and early crop growth, particularly in the eastern Ukraine and Black Soils. Mostly dry weather covered the southern Ukraine, North Caucasus, and lower Volga Valley, aiding the sugarbeet, corn, and sunflower harvests. However, showers are needed for winter grain planting. Reports indicate that as of October 1, winter grains were planted on 85 percent of the intended acreage. Elsewhere, light showers in the central Ukraine caused some harvest delays. Mostly dry weather in the western Ukraine, Belorussia, and the Baltic States favored harvesting.

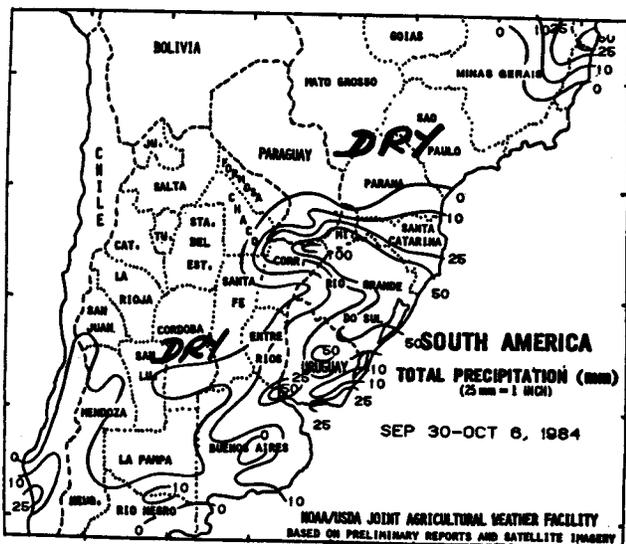
In the New Lands, early-week mostly dry weather preceded the later-week rain and snow showers. In general, precipitation remained light in northern and eastern spring wheat areas, with only minor late harvesting delays. Daytime highs remained well above freezing across most crop areas, but late-week subfreezing temperatures appeared just north of the grain area. In South Central USSR cotton areas, dry weather continued to favor harvesting.



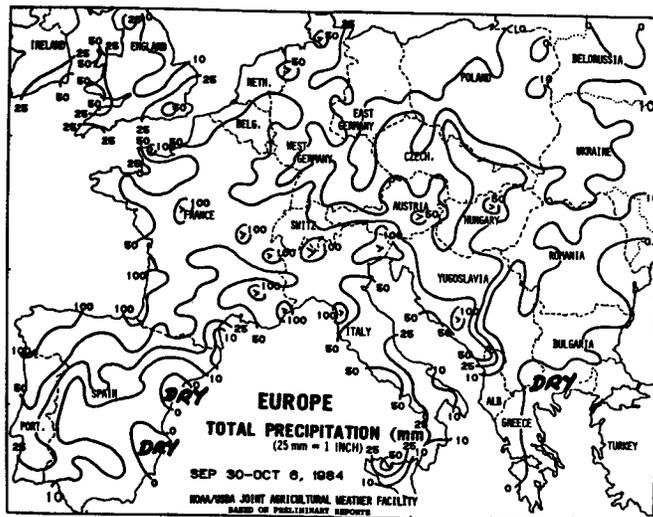
**CANADA...**Relatively mild and dry weather covered much of the Prairie grain belt. Light showers fell over extreme northern crop areas and in southwestern Manitoba, but the weather generally favored harvesting. The harvest is concentrated mostly in the northern crop areas where earlier wetness and frost delayed fieldwork and adversely affected unharvested crop quality. Alberta has the greatest proportion of unharvested crops; Saskatchewan and Manitoba have mostly finished. Alberta's recent dry weather improved conditions for combining the remaining 25 percent (as of early October) of the Province's total crop acreage. Nearly all crops are swathed and ready for combining, given favorable weather.



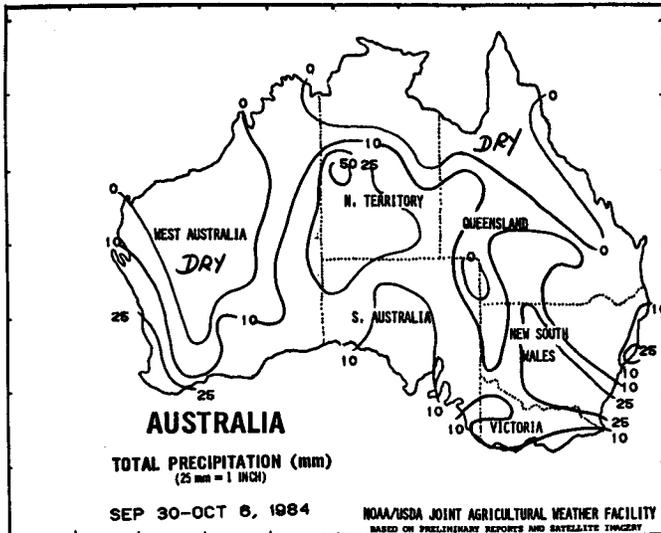
**MEXICO...**Seasonal rains decreased over the northern half, favoring harvesting but further stressing some north central pastures and livestock. In contrast, tropical activity peaked across much of the southern mountains and extended into Central America, keeping soils moist but interfering with early harvesting. The intertropical convergence zone weakened considerably off the southern shore.



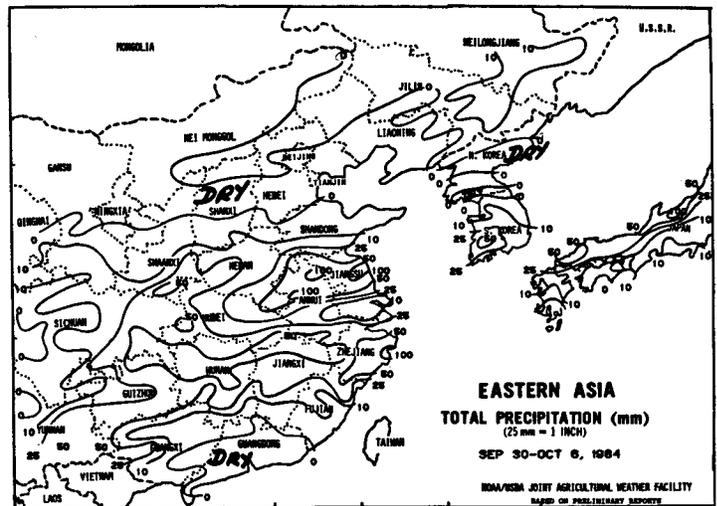
**SOUTH AMERICA...**Rain was mostly confined to extreme eastern Argentina, Uruguay, southern Brazil, and extreme southern Paraguay. Heavy rain (50-106 mm) dotted portions of Uruguay but covered eastern and northern portions of Rio Grande do Sul, and extreme northeastern Argentina. In Argentina, sufficient moisture is available for wheat, mostly in vegetative growth, and for early corn planting in Santa Fe and northern Buenos Aires. In Brazil, more rain brought abundant moisture for wheat in the grain filling period in Rio Grande do Sul, but also promoted weed growth and hampered fieldwork. Amounts decreased sharply in Santa Catarina with only light showers in southern Parana improving wheat harvest conditions. Dry weather covered Parana and Sao Paulo cotton areas where planting is underway.



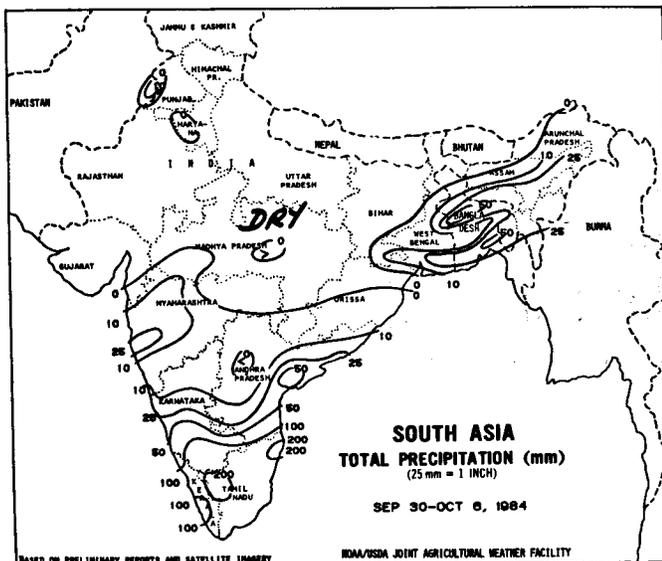
**EUROPE...**Showers covered most of the region but Bulgaria, Greece, and western Turkey remained dry. Heavy rain (50 to 100 mm) in France and northern Italy likely produced local flooding, delaying the corn harvest and winter grain planting. Showers (10-25 mm) continued to cover northern Europe, providing abundant moisture for winter grain planting. Light, scattered precipitation in Romania caused only minor crop harvest delays. The Iberian peninsula crop areas received significant rain in the west and north, which could promote winter grain planting. Normally, the bulk of winter grains are planted during November in Spain. Weekly temperatures were below normal in the west and above normal in the east.



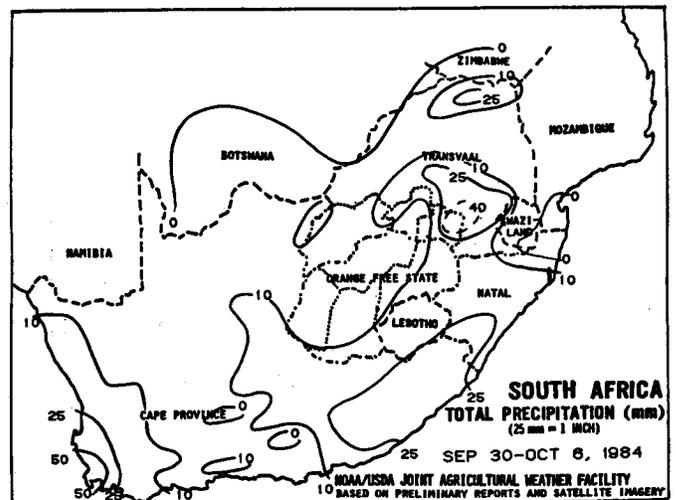
**AUSTRALIA...** Showers fell over the entire wheat belt. Light rain (less than 10 mm) fell over northern New South Wales and southeastern Queensland where wheat is in the reproductive to early grain forming period. Heavier showers produced 10-30 mm in southern New South Wales, northern Victoria and eastern crop areas of South Australia. Winter-sown crops are beginning to head throughout the south. Light rain fell over South Australia's western wheat. A storm off Western Australia's coast produced substantial late-week rain in the wheat area. The weather remains favorable for wheat development. Substantial moisture fell over central Australia early in the week, while light showers caused little interference with sugarcane harvesting along Queensland's east coast.



**EASTERN ASIA...** Moderate to heavy rain (25-100 mm) continued in the central North China Plain early in the week. The wet conditions were unfavorable for cotton, corn, and soybean harvesting and reductions in quality may have occurred. However, a late-week high pressure area pushed the precipitation south of the Yangtze River. Several days of dry weather followed in the North China Plain and may have allowed fieldwork to continue, including winter wheat planting. Below-normal temperatures during the last two weeks may shorten the cotton harvest compared to last year's. Moderate precipitation from Guizhou eastward to Zhejiang benefited late double-cropped rice in the filling stage.



**SOUTH ASIA...** Precipitation remained in southern India this week as the monsoon season is ending. Moderate to heavy rain (50-200 mm) fell in southern Andhra Pradesh, southern Karnataka, and northern Tamil Nadu benefiting cotton forming bolls. Dry weather in Gujarat and Madhya Pradesh benefited groundnut harvesting. Scattered, moderate showers fell in the eastern winter rice area. Dry weather in Bihar and Orissa was unfavorable for the heading rice. Wheat planting should be underway across the north where moisture is adequate. The major wheat producing area is Punjab, Haryana, and Uttar Pradesh. During the winter, frontal systems occasionally produce additional moisture for wheat.



**SOUTH AFRICA...** Corn planting normally begins with the onset of the summer rainy season in October, but planting can continue into December. The major corn producing region is the Orange Free State and southern Transvaal, commonly referred to as the Maize Triangle. Only light showers fell in most corn areas, and planting will not begin until adequate moisture is available. Significant showers (10-45 mm) fell in the extreme northeast last week. Last season, moisture was sufficient for planting and crop establishment but a drought during the reproductive and grain filling periods reduced production by over 50 percent for the second consecutive year. Outside the Maize Triangle, substantial rain (25-50 mm) fell in the crop areas of southwestern Cape Province.

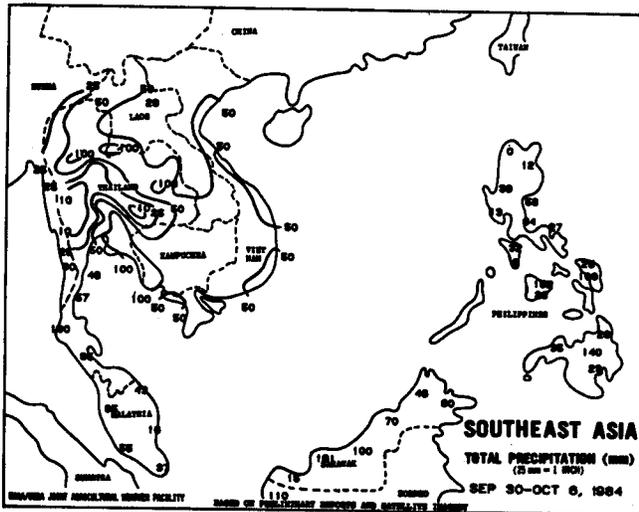
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**SOUTHEAST ASIA...** Moderate to heavy rain fell throughout Indochina. Heavy rain (50-100 mm) across northern Thailand was unfavorable for maturing rice. However, heavy rain in the south central area benefited rice in the filling stage. Most areas in Thailand had a normal wet season, benefiting corn and rice. The wet season usually ends in October in most of Thailand. Moderate to heavy precipitation covered the Philippines, favoring lowland rice in the heading stage in Luzon and in the filling stage in Mindanao.

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U.S. DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration  
National Weather Service/Climate Analysis Center  
Managing Editor . . . . . Don Haddock  
Meteorologists . . . . . Lyle Denny,  
Ray McInturff, Jim Williams, Wes Byrd,  
and Mark Brusberg

Subscriptions (202) 447-7917. . . Cheryl Caleco

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