

# 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

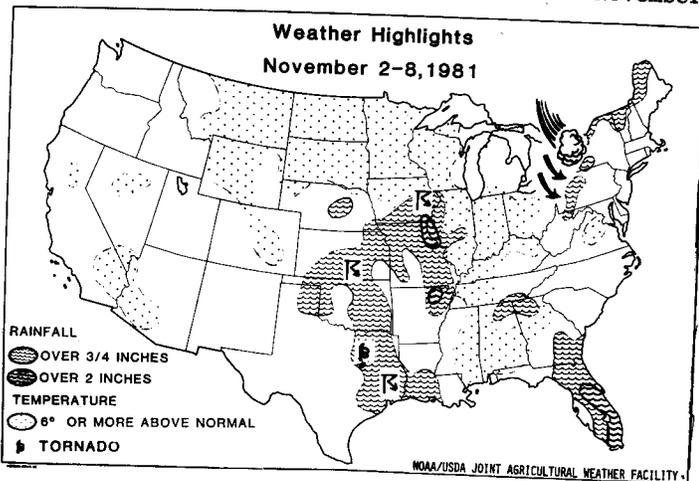
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Nov. 10, 1981

## National Weather Summary

November 2-8, 1981



**HIGHLIGHTS:** A nearly stationary low pressure system in the central Plains kept showers in that area and the western Corn Belt until midweek when the system moved northeastward and spread rain or showers through the Corn Belt, the Northeast, and the east coast. Late in the week, another low pressure system moved out of the central Rockies to Texas and merged with a cold front to produce heavy showers from eastern Texas to eastern Kansas. A few tornadoes in east Texas and small hail northward accompanied the frontal passage.

**MONDAY...** A large low pressure system in the central Plains scattered showers throughout that area and the lower two-thirds of the Mississippi Valley. Some heavy showers fell in Iowa, Illinois, and Missouri. Showers were scattered along the Atlantic coast of the Southeast and a little light rain fell along the Washington and Oregon coasts.

**TUESDAY...** The low pressure system over the central Plains was weakening and showers were becoming less frequent but the pattern of coverage remained about the same. Some heavy thunderstorms occurred early in the day over the middle Mississippi Valley. Afternoon temperatures were warm again over the northern Plains. The mercury climbed to the seventies in Montana.

**WEDNESDAY...** The weak low pressure center from the central Plains began to move northeastward with a trough of low pressure trailing southeastward. Light showers and a few thunderstorms occurred from eastern Oklahoma through Iowa, the Great Lakes region, and Ohio Valley. Thunderstorms were more frequent with occasional heavy showers through the Southeast. The only freezing temperatures in the Nation were through the Rockies and a few places

in New England. High temperatures in the afternoon were in the seventies as far north as southern Michigan.

**THURSDAY...** The trough of low pressure moved eastward as a cold front moved through the Plains to a line from the Great Lakes to central Texas. Showers were scattered from the middle Mississippi Valley through the Lakes and Ohio Valley to the east coast. Showers and thunderstorms covered the Southeast from the southern Appalachians to the east coast and southward through Florida. A storm off the coast of central California triggered showers through most of the State.

**FRIDAY...** Snow showers fell in parts of the eastern Great Lakes region and rain or showers extended to West Virginia and all of the Northeast. Blustery northwesterly winds accompanied and followed the showers throughout the Northeast. Widely scattered showers extended from central California across the Plateau to western Colorado and southward into Arizona and New Mexico.

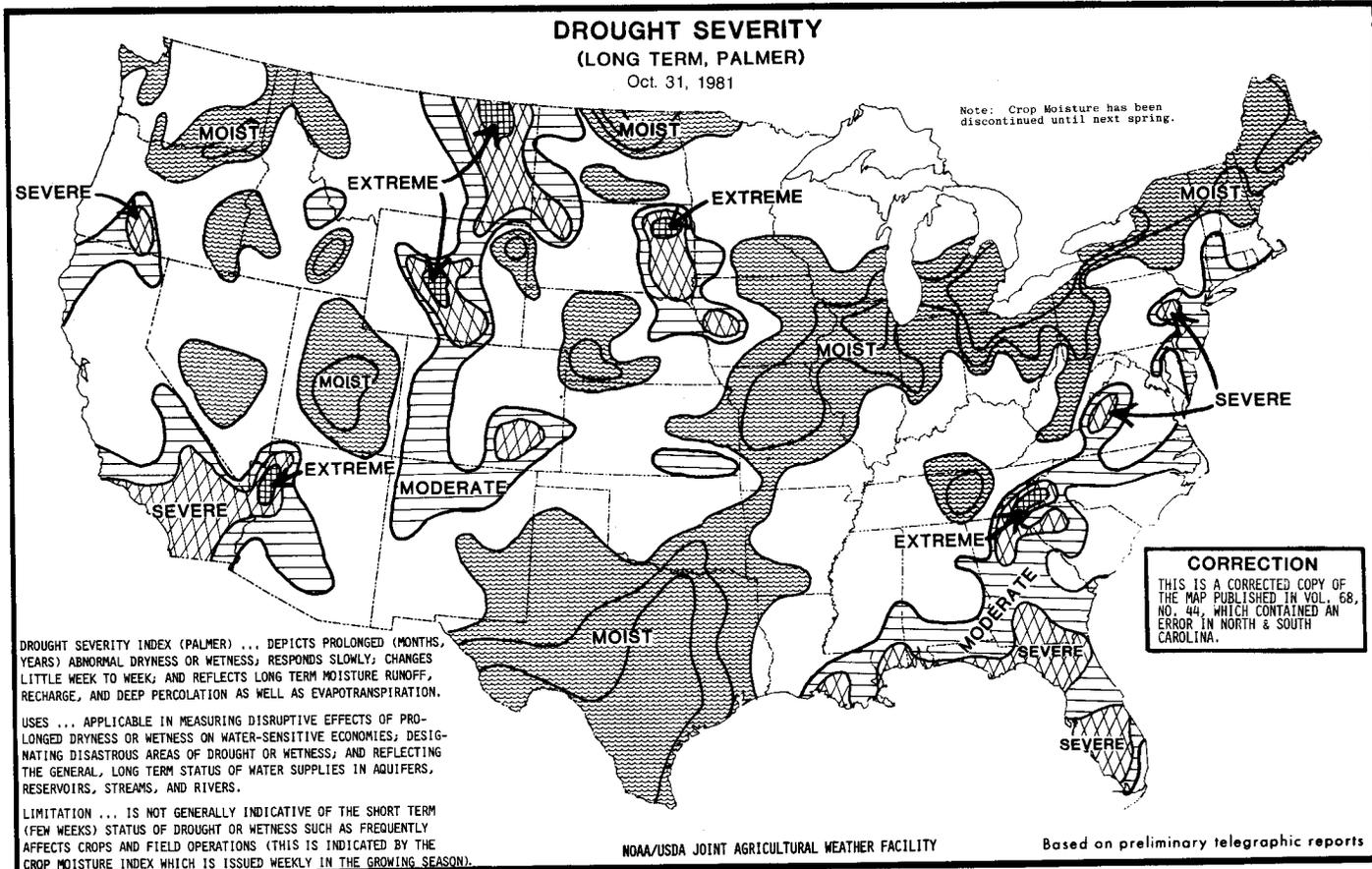
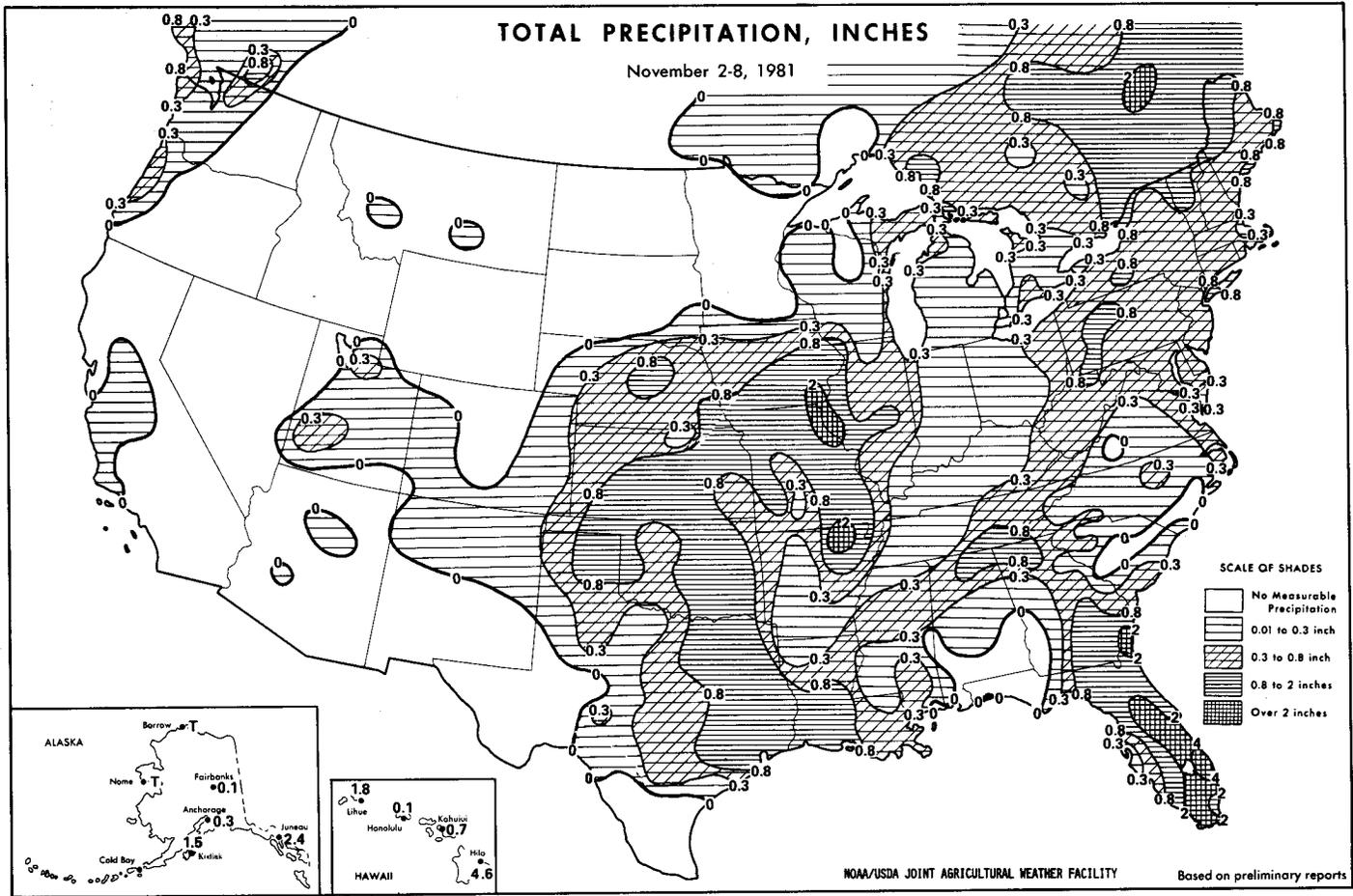
**SATURDAY...** Rain and showers lingered over the Northeast and snow swirled through the Appalachians in blustery northwest winds. A low pressure system moved out of the central Rockies to the Texas Panhandle, spreading showers and a few thunderstorms from Arizona and Utah to central Texas and Kansas. The heaviest showers were in central Texas where late afternoon thunderstorms dumped up to 1½ inches of rain and some small hail.

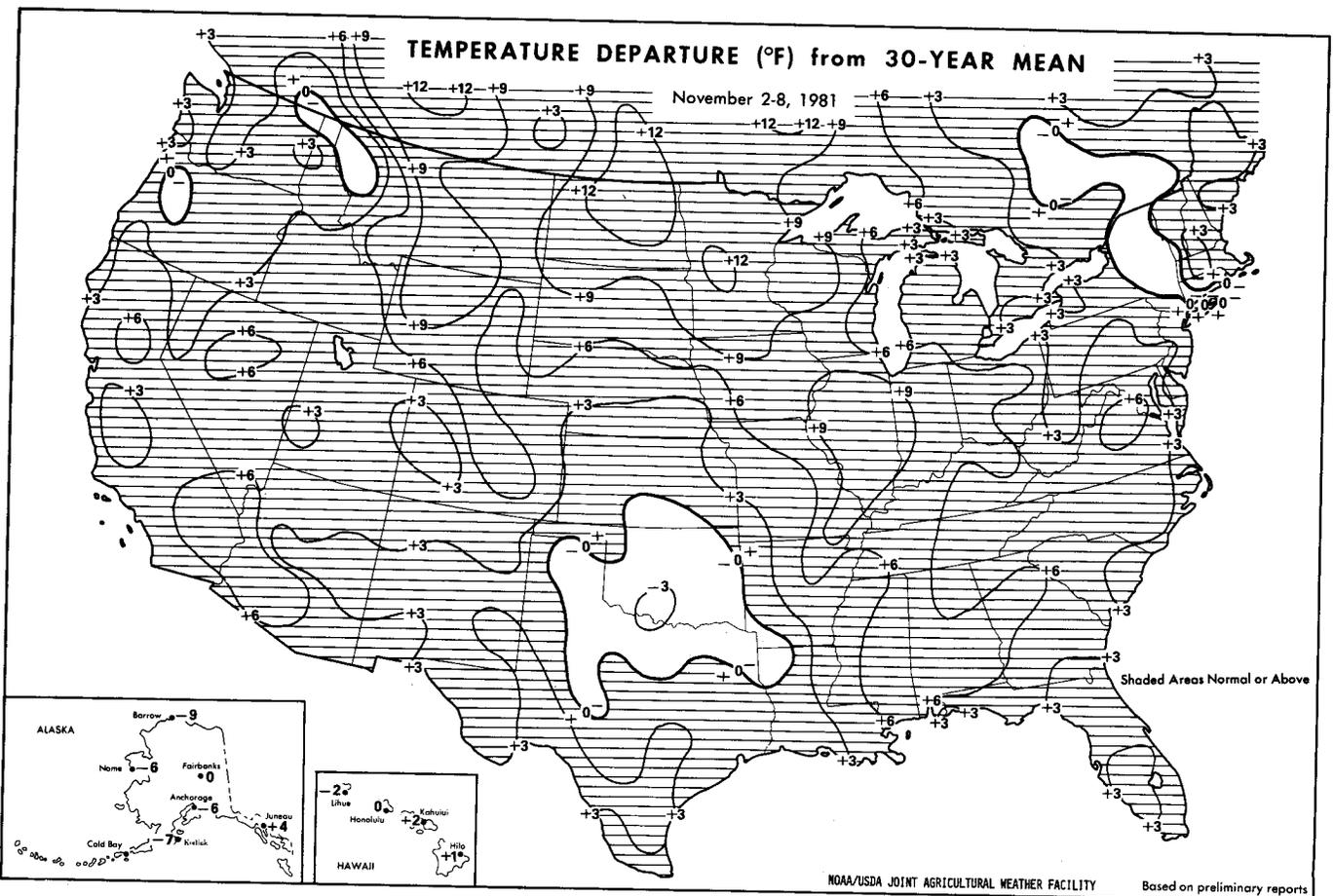
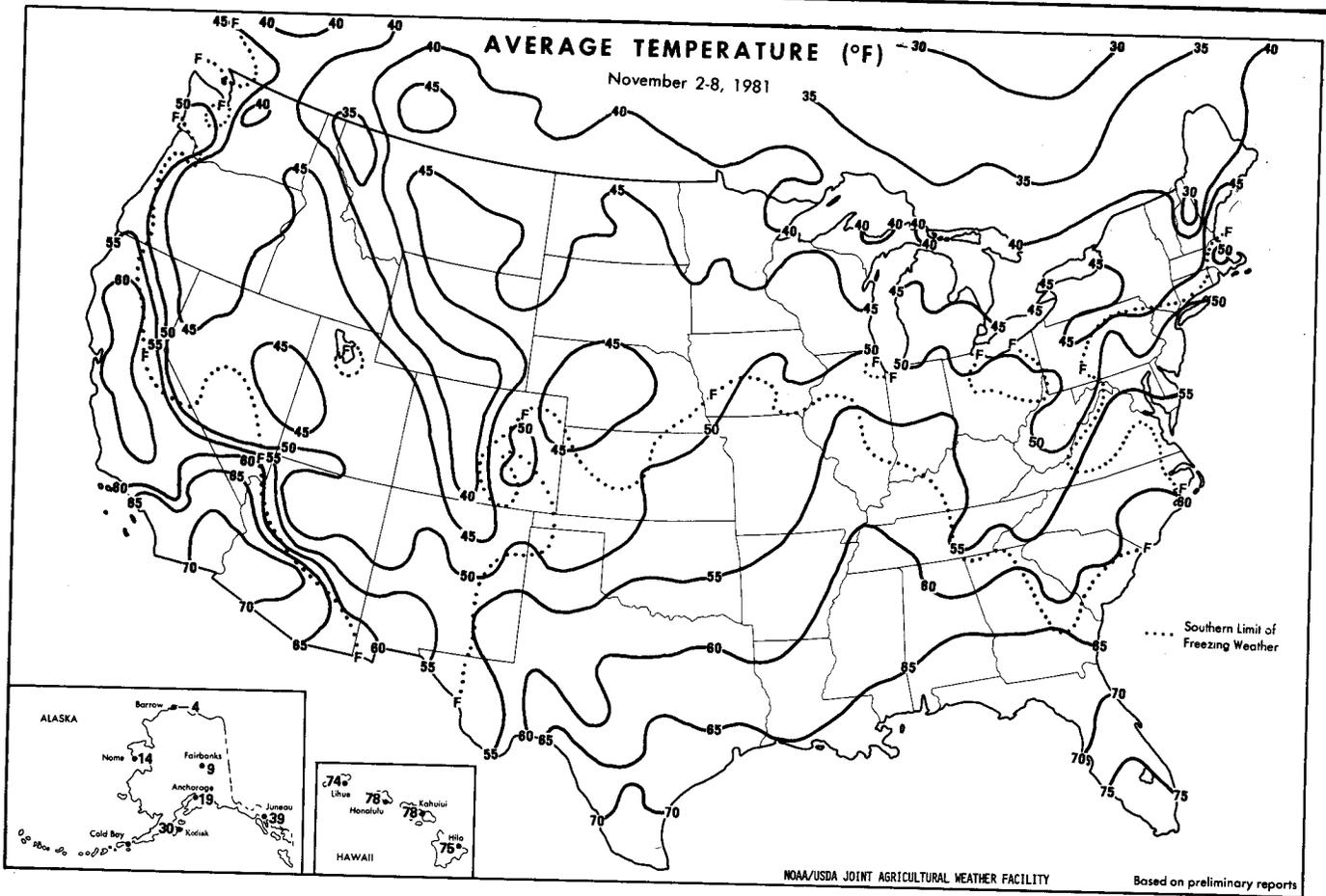
**SUNDAY...** A cold front moved through the Plains and combined with the low pressure center in central Texas. Moisture from the Gulf of Mexico flowed northward triggering showers and thunderstorms from

(Continued on page 8.)

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Weather Data for the Week Ending Nov. 8, 1981

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Aug. 31	PCT. NORMAL SINCE Aug. 31	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	75	48	81	36	61	6	.1	.6	.1	6.0	83	34.6	77	93	41	0	0	1	0
AL MOBILE	81	57	85	45	69	7	T	.5	T	5.2	51	49.7	.85	93	48	0	0	1	0
AL MONTGOMERY	77	55	82	39	66	8	T	.7	T	5.0	66	39.1	93	92	45	0	0	1	0
AK ANCHORAGE	25	14	33	3	19	-6	.3	.1	.2	5.9	137	18.8	146	89	61	0	7	5	0
AK BARROW	0	-8	2	-14	-4	-9	T	.1	T	.8	73	--	--	84	68	0	7	1	0
AK FAIRBANKS	18	1	25	-8	9	0	.1	.1	.1	1.8	86	8.9	90	84	58	0	7	3	0
AK JUNEAU	44	33	50	29	39	4	2.4	.9	1.4	18.9	115	46.3	100	88	59	0	3	5	2
AK KODIAK	37	24	32	15	30	-7	1.5	.2	.9	11.9	84	56.9	119	79	43	0	7	5	1
AK NOME	21	7	37	-1	14	-6	T	.3	T	2.7	63	14.7	102	75	54	0	7	1	0
AZ FLAGSTAFF	59	30	64	25	44	5	.1	.2	.1	3.2	86	19.6	118	84	34	0	5	1	0
AZ PHOENIX	85	57	88	53	71	8	0	.1	0	1.5	125	5.9	104	41	14	0	0	0	0
AZ TUCSON	81	51	84	46	66	4	0	.2	0	1.1	48	13.3	137	46	15	0	0	0	0
AZ WINSLOW	66	34	72	28	50	2	T	.1	T	2.0	118	8.2	111	--	--	0	3	1	0
AZ YUMA	88	56	91	54	72	5	0	.1	0	0	0	1.4	50	44	16	3	0	0	0
AR FORT SMITH	68	43	73	34	56	1	.5	.3	.4	9.1	115	38.5	103	94	40	0	0	2	0
AR LITTLE ROCK	70	49	74	44	60	4	T	.8	T	8.4	109	40.3	98	83	50	0	0	1	0
CA BAKERSFIELD	74	52	83	50	63	4	0	.1	0	.8	160	5.2	116	76	40	0	0	0	0
CA EUREKA	60	49	63	47	55	2	0	1.2	0	4.7	90	23.7	81	95	86	0	0	0	0
CA FRESNO	70	48	79	44	59	2	T	.2	T	.5	71	8.0	105	99	53	0	0	1	0
CA LOS ANGELES	74	56	90	53	65	3	0	.3	0	.4	57	7.0	81	78	42	1	0	0	0
CA RED BLUFF	73	48	78	43	61	4	T	.6	T	4.2	183	20.5	127	89	46	0	0	0	0
CA SAN DIEGO	74	59	85	56	66	3	0	.2	0	.1	17	8.6	126	81	47	0	0	0	0
CA SAN FRANCISCO	64	50	72	47	57	0	T	.4	T	2.7	159	14.9	106	90	58	0	0	0	0
CA STOCKTON	72	46	78	43	59	3	.1	.3	.1	1.6	114	10.8	105	97	53	0	0	1	0
CO DENVER	62	36	70	30	49	6	0	.2	0	1.2	46	11.9	82	63	24	0	1	0	0
CO GRAND JUNCTION	59	33	61	30	46	1	.1	0	.1	2.5	132	7.6	112	87	41	0	2	1	0
CO PUEBLO	65	37	72	30	51	6	T	.1	T	.7	39	7.1	60	72	31	0	2	1	0
CT BRIDGEPORT	59	38	70	32	49	-2	.4	.5	.4	9.2	133	27.0	83	86	37	0	1	1	0
CT HARTFORD	62	36	70	31	49	3	.3	.6	.3	10.2	132	29.2	81	80	33	0	2	1	0
DC WASHINGTON	69	49	76	47	59	6	.4	.3	.4	6.4	94	29.0	86	84	40	0	0	2	0
FL APALACHICOLA	78	58	83	45	68	4	0	.5	0	2.9	23	32.7	63	78	47	0	0	0	0
FL DAYTONA BEACH	77	61	80	45	69	2	1.6	.9	.7	10.4	76	35.7	76	94	63	0	0	4	2
FL FORT MYERS	85	66	89	53	76	4	.6	.2	.6	7.8	57	51.4	99	98	54	0	0	1	1
FL JACKSONVILLE	76	55	82	37	66	1	1.9	1.4	1.4	5.0	38	29.9	59	98	58	0	0	3	1
FL KEY WEST	82	73	85	65	77	1	1.3	.5	.8	9.4	67	24.7	67	90	68	0	0	4	1
FL MIAMI	81	69	85	62	75	1	1.6	.6	.8	18.2	98	50.5	89	92	56	0	0	2	2
FL ORLANDO	81	61	85	50	71	2	2.3	1.8	2.0	13.8	115	44.5	91	95	54	0	0	2	1
FL TALLAHASSEE	77	53	79	36	65	3	T	.5	T	6.8	66	43.4	79	98	48	0	0	0	0
FL TAMPA	79	61	82	49	70	0	T	.4	T	6.9	72	35.0	76	99	52	0	0	1	0
FL WEST PALM BEACH	81	66	84	55	74	1	4.1	3.2	3.2	15.5	78	47.3	82	94	58	0	0	3	2
GA ATLANTA	72	51	77	36	61	6	.2	.5	.2	8.5	127	34.2	82	88	44	0	0	2	0
GA AUGUSTA	73	46	77	28	59	2	T	.4	T	3.7	63	34.8	92	99	40	0	2	0	0
GA MACON	76	52	82	34	64	6	T	.4	T	6.2	100	39.0	101	94	42	0	0	1	0
GA SAVANNAH	75	54	81	36	64	4	.6	.2	.6	4.8	53	35.9	77	91	47	0	0	3	1
HI HILO	81	69	85	66	75	1	4.6	1.6	1.9	28.6	129	--	--	95	71	0	0	5	4
HI HONOLULU	85	71	86	68	78	0	.1	.5	T	2.8	100	8.4	49	90	61	0	0	2	0
HI KAHULUI	84	72	87	69	78	2	.7	.2	.4	2.6	124	--	--	81	61	0	0	3	0
HI LIHUE	82	67	84	63	74	-2	1.8	.6	1.5	9.2	128	--	--	98	68	0	0	3	1
ID BOISE	60	34	64	30	47	3	0	.3	0	1.2	80	10.2	106	85	43	0	3	0	0
ID LEWISTON	54	36	67	31	45	1	0	.3	0	2.4	104	11.3	100	91	58	0	3	0	0
ID POCATELLO	60	27	64	24	43	4	0	.2	0	1.7	113	10.6	120	89	39	0	7	0	0
IL CAIRO	69	51	75	40	60	7	.3	.5	.2	4.3	59	36.8	91	--	--	0	0	2	0
IL CHICAGO	62	41	71	30	52	7	.4	.1	.3	5.6	95	36.0	126	89	52	0	2	2	0
IL MOLINE	60	41	68	29	51	6	.5	0	.3	10.8	150	34.0	103	89	59	0	1	3	0
IL PEORIA	65	45	72	33	55	10	.4	.1	.3	3.7	56	37.0	117	92	60	0	0	2	0
IL ROCKFORD	61	40	70	29	51	8	.1	.5	T	8.4	108	32.7	98	88	52	0	2	2	0
IL SPRINGFIELD	65	47	73	33	56	9	.5	.1	.3	4.8	67	44.8	141	93	59	0	0	4	0
IN EVANSVILLE	68	46	78	33	57	8	.1	.6	.1	4.5	73	37.9	104	83	48	0	0	2	0
IN FORT WAYNE	60	42	70	29	51	6	T	.6	T	6.9	111	33.5	106	92	61	0	2	1	0
IN INDIANAPOLIS	65	45	75	28	55	8	.1	.6	.1	4.5	71	33.3	99	87	51	0	2	2	0
IN SOUTH BEND	60	41	72	28	50	6	.2	.5	.2	5.3	76	34.3	107	97	60	0	2	2	0
IA BURLINGTON	62	45	65	35	54	8	1.3	.9	.6	9.6	130	42.6	133	85	54	0	0	3	2
IA DES MOINES	60	43	64	32	51	8	.9	.5	.6	5.9	100	29.3	100	75	49	0	1	4	1
IA DUBUQUE	60	41	67	29	51	9	.7	.2	.7	9.4	115	--	--	96	60	0	1	1	0
IA SIOUX CITY	57	36	66	24	46	4	.6	.4	.5	4.6	96	18.9	77	96	59	0	3	3	0
KS CONCORDIA	57	39	61	31	48	1	.2	0	.1	5.3	98	32.1	122	93	57	0	2	3	0
KS DODGE CITY	58	38	71	33	48	1	1.0	.8	.6	6.7	176	24.3	122	92	55	0	0	4	1
KS GOODLAND	55	33	67	25	44	1	.4	.2	.3	1.5	54	21.2	131	92	50	0	2	2	0
KS TOPEKA	61	43	68	33	52	4	1.3	.9	.7	9.6	145	39.3	122	89	53	0	0	4	2
KS WICHITA	58	40	66	33	49	-1	1.4	1.0	.9	9.4	136	26.7	92	94	59	0	0	4	1
KY LEXINGTON	64	44	75	31	54	5	.1	.6	.1	4.4	77	31.3	82	92	52	0	1	1	0
KY LOUISVILLE	66	44	76	31	55	6	.1	.6	.1	5.0	79	29.6	79	89	47	0	1	2	0
LA BATON ROUGE	76	54	82	40	65	4	.6	.1	.5	6.1	82	37.5	81	97	54	0	0	3	1

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

+100 = NORMAL & ACTUAL NEAR THE SAME

Weather Data for the Week Ending Nov. 8, 1981

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION								RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE AUG. 31	PCT. NORMAL SINCE AUG. 31	TOTAL, IN., SINCE JAN. 1	PCT. NORMAL SINCE JAN. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE		PRECIPITATION		
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE	
LAKE CHARLES	77	51	86	45	64	1	1.0	.2	1.0	7.5	86	47.2	101	97	45	0	0	1	1	
NEW ORLEANS	79	57	82	42	68	5	.3	.4	.2	7.2	81	48.5	100	100	58	0	0	2	0	
SHREVEPORT	75	43	81	38	59	-1	.2	.6	.2	9.6	137	39.6	104	97	44	0	0	1	0	
ME CARIBOU	46	32	55	26	39	3	.5	.4	.3	8.9	113	41.1	133	85	56	0	4	2	0	
PORTLAND	56	33	66	27	45	2	.8	.3	.4	11.8	151	40.1	119	83	48	0	4	2	0	
MD BALTIMORE	66	42	73	39	54	4	.3	.4	.2	6.2	93	28.0	81	79	37	0	0	2	0	
MA BOSTON	60	43	69	37	51	2	.3	.7	.3	6.3	86	24.9	72	72	37	0	0	1	0	
CHATHAM	55	42	59	34	49	-	.3	.3	.3	8.2	--	34.4	--	84	57	0	0	1	0	
MI ALPENA	57	29	65	24	43	3	.2	.4	.1	5.6	95	19.3	79	97	48	0	5	2	0	
DETROIT	60	38	68	27	49	4	.2	.4	.1	9.6	175	30.1	108	91	49	0	2	2	0	
FLINT	58	35	65	28	47	4	.3	.3	.3	11.0	196	32.0	121	91	49	0	3	2	0	
GRAND RAPIDS	60	36	71	25	48	4	.1	.6	.1	12.3	178	41.5	146	88	49	0	2	1	0	
HOUGHTON LAKE	56	32	66	26	44	5	.2	.4	.1	4.8	71	27.5	108	94	48	0	4	2	0	
LANSING	59	36	67	26	47	5	.1	.4	.1	9.4	168	29.2	110	97	57	0	2	2	0	
MARQUETTE	53	26	65	18	40	5	.3	.5	.2	7.0	86	28.5	90	89	46	0	6	2	0	
MUSKEGON	57	37	67	23	47	4	.2	.5	.2	8.9	131	28.6	106	93	53	0	1	2	0	
SAULT STE. MARIE	51	24	58	17	38	0	.2	.5	.2	6.9	88	24.5	90	98	51	0	6	1	0	
MN DULUTH	54	33	63	23	44	9	T	.4	T	6.0	98	26.3	95	87	40	0	2	0	0	
INT'L FALLS	56	30	65	21	43	12	T	.3	T	7.8	139	20.8	86	88	43	0	5	1	0	
MINNEAPOLIS	61	34	66	28	47	9	0	.3	0	4.2	84	25.0	103	85	39	0	4	0	0	
ROCHESTER	58	34	67	24	46	7	T	.3	T	5.2	93	31.6	121	78	39	0	3	0	0	
SAINT CLOUD	57	27	65	22	42	6	0	.3	0	5.7	119	23.9	94	92	44	0	6	0	0	
MS JACKSON	78	49	81	37	64	5	T	.7	T	8.7	140	40.1	96	98	46	0	1	0	0	
MERIDIAN	79	49	83	35	64	7	T	.6	T	5.0	81	35.3	82	91	39	0	0	0	0	
MO COLUMBIA	62	45	67	35	54	5	1.2	.7	.5	7.2	84	46.1	132	95	51	0	0	5	1	
KANSAS CITY	60	41	64	34	51	3	.9	.4	.4	8.4	102	40.4	117	85	49	0	0	4	0	
SAINT LOUIS	66	50	73	39	58	8	.3	.4	.1	6.9	108	41.6	130	94	56	0	0	5	0	
SPRINGFIELD	64	43	67	33	53	3	.3	.3	.2	9.7	114	40.5	113	89	45	0	0	2	0	
MT BILLINGS	63	36	71	30	49	9	T	.2	T	1.5	56	15.2	116	82	31	0	3	1	0	
GLASGOW	57	29	69	22	43	8	0	.1	0	1.4	93	8.1	76	77	34	0	5	0	0	
GREAT FALLS	62	34	72	21	48	9	0	.1	0	1.5	75	13.6	100	65	28	0	3	0	0	
HAVRE	59	27	73	20	43	7	0	.1	0	1.8	95	9.3	85	89	33	0	7	0	0	
HELENA	56	27	60	23	41	6	T	.1	T	1.7	100	12.9	128	89	41	0	6	0	0	
KALISPELL	50	18	60	11	34	-1	0	.3	0	.6	22	15.5	108	95	53	0	7	0	0	
MILES CITY	60	30	70	25	45	8	0	.1	0	2.1	100	9.7	74	86	30	0	5	0	0	
MISSOULA	46	21	57	17	34	-2	T	.2	T	1.7	77	14.3	124	97	55	0	7	0	0	
NE GRAND ISLAND	56	32	64	24	44	1	.6	.5	.4	3.5	97	21.0	94	96	51	0	3	2	0	
LINCOLN	57	35	65	29	46	2	.9	.6	.7	5.6	117	22.0	87	95	60	0	2	3	1	
NORFOLK	57	35	68	25	46	5	.5	.4	.5	2.7	68	19.5	84	93	48	0	2	2	0	
NORTH PLATTE	57	31	68	23	44	3	.4	.3	.4	1.4	42	22.2	116	96	46	0	4	1	0	
OMAHA	56	39	63	28	48	4	.5	.2	.3	4.2	76	26.4	94	85	65	0	2	3	0	
VALENTINE	59	29	68	16	44	5	0	.1	0	2.9	116	17.3	100	83	32	0	4	0	0	
NV ELY	60	25	66	22	42	4	T	.1	T	4.0	333	9.9	148	82	28	0	7	0	0	
LAS VEGAS	76	49	78	46	63	5	T	.1	T	.4	50	2.8	78	53	18	0	0	0	0	
RENO	63	27	69	23	45	2	0	.1	0	.6	67	3.4	59	91	31	0	6	0	0	
WINNEMUCCA	64	25	69	20	45	4	0	.2	0	1.4	100	5.5	80	80	27	0	7	0	0	
NH CONCORD	56	29	66	24	43	0	.4	.4	.4	11.6	171	38.8	130	94	38	0	5	1	0	
NJ ATLANTIC CITY	63	39	71	35	51	1	.3	.7	.3	5.2	67	--	--	96	43	0	0	1	0	
TRENTON	63	44	70	39	53	3	.6	.1	.6	7.1	104	34.7	100	77	31	0	0	2	1	
NM ALBUQUERQUE	67	35	71	30	51	2	.1	0	.1	1.9	119	7.4	103	69	24	0	4	1	0	
ROSWELL	71	40	76	35	55	4	T	.2	T	3.8	123	24.3	231	72	25	0	0	0	0	
NY ALBANY	56	29	67	24	42	-2	.5	.1	.5	7.6	112	25.9	91	88	39	0	6	2	0	
BINGHAMTON	55	35	65	28	45	2	.4	.3	.2	8.7	124	26.7	83	84	42	0	3	3	0	
BUFFALO	58	36	69	33	47	3	.3	.5	.2	8.0	108	31.7	104	95	48	0	0	2	0	
NEW YORK	62	46	70	41	54	3	.8	0	.8	7.2	99	29.1	82	73	37	0	0	1	1	
ROCHESTER	58	34	68	29	46	1	.5	.2	.3	9.3	155	30.9	114	95	50	0	2	3	0	
SYRACUSE	57	36	69	34	46	1	.7	0	.4	13.0	197	30.0	97	92	49	0	0	3	0	
NC ASHEVILLE	67	41	74	26	54	5	.1	.6	.1	3.7	47	28.7	72	96	42	0	1	1	0	
CHARLOTTE	71	47	77	33	59	4	.1	.5	.1	7.6	110	30.9	82	88	37	0	0	1	0	
GREENSBORO	69	44	74	30	57	5	.1	.6	.1	10.1	136	35.3	97	82	38	0	1	1	0	
HATTERAS	66	51	72	42	59	-1	.7	.3	.6	4.7	39	42.4	88	90	50	0	0	2	1	
RALEIGH	71	45	77	31	58	4	.4	.3	.4	7.7	103	30.9	82	84	38	0	1	1	0	
WILMINGTON	72	48	77	31	60	1	T	.6	T	2.4	24	37.8	79	93	41	0	1	1	0	
ND BISMARCK	61	29	68	19	45	10	0	.1	0	2.4	104	13.1	86	78	28	0	5	0	0	
FARGO	56	31	63	19	44	8	0	.2	0	3.9	122	16.5	88	85	40	0	6	0	0	
WILLISTON	61	26	73	17	43	9	0	.1	0	1.2	57	10.4	78	86	32	0	6	0	0	
OH AKRON-CANTON	63	43	72	36	53	7	.7	.2	.6	5.6	97	36.6	118	73	42	0	0	2	1	
CINCINNATI	64	43	75	26	54	5	.2	.5	.1	3.9	68	29.8	88	88	49	0	2	2	0	
CLEVELAND	60	39	67	34	50	4	.4	.3	.2	9.5	151	34.2	109	81	47	0	0	2	0	
COLUMBUS	61	39	71	27	50	4	.1	.5	.1	3.8	75	33.5	103	85	48	0	2	2	0	
DAYTON	64	45	75	32	54	8	.1	.5	.1	8.1	159	37.6	124	89	53	0	1	1	0	
TOLEDO	60	39	68	25	49	5	.2	.3	.2	11.1	206	34.9	126	94	58	0	1	1	0	
YOUNGSTOWN	58	37	66	32	48	3	.6	.1	.4	6.9	108	31.2	94	81	44	0	1	2	0	
OK OKLAHOMA CITY	61	41	70	38	51	-3	1.5	1.2	1.4	10.7	160	38.0	128	95	57	0	0	4	1	

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

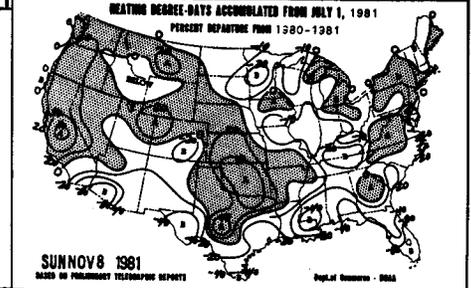
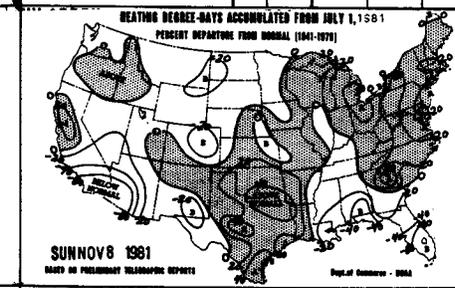
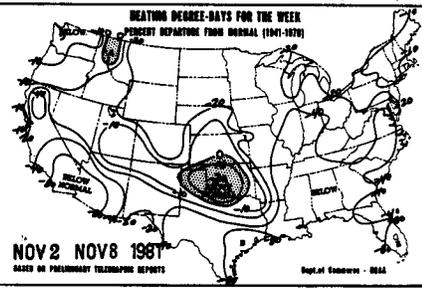
Weather Data for the Week Ending Nov. 8, 1981

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Aug. 31	PCT. NORMAL SINCE Aug. 31	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERA- TURE		PRECIPI- TATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
OR TULSA	62	43	72	38	52	-1	1.2	.7	1.0	11.2	137	36.0	105	96	57	0	0	4	1
OR ASTORIA	61	41	70	33	51	2	.1	-2.0	.1	12.1	108	46.3	97	84	57	0	0	1	0
OR BURNS	60	26	62	19	43	4	0	.3	0	1.7	100	9.0	100	95	43	0	6	0	0
OR MEDFORD	60	35	63	33	47	1	0	-.7	0	1.8	51	8.1	54	95	58	0	0	0	0
OR PENDLETON	56	33	65	29	45	0	0	-.4	0	2.2	100	11.2	111	94	52	0	3	0	0
OR PORTLAND	61	39	64	35	50	2	0	-.2	0	6.1	91	21.6	79	99	58	0	0	1	0
OR SALEM	57	32	65	24	44	-3	0	-1.3	0	7.5	107	24.2	81	99	65	0	3	0	0
PA ALLENTOWN	61	37	70	33	49	2	.7	-.1	.3	6.3	86	30.7	85	89	37	0	0	2	0
PA ERIE	57	36	62	33	47	2	.5	-.3	.3	9.8	126	37.6	116	85	50	0	0	2	0
PA HARRISBURG	63	40	70	35	52	3	.5	-.2	.4	7.0	113	32.0	103	79	32	0	0	2	0
PA PHILADELPHIA	64	41	70	35	52	2	.3	-.5	.3	5.8	88	32.1	94	87	37	0	0	2	0
PA PITTSBURGH	59	37	69	32	48	3	.6	0	.4	6.6	112	33.3	105	85	46	0	3	2	0
PA SCRANTON	58	35	68	32	47	1	.6	-.1	.4	7.0	111	32.3	107	80	46	0	1	3	0
RI PROVIDENCE	61	37	71	33	49	2	.4	-.6	.4	6.5	82	27.3	78	82	34	0	0	1	0
SC CHARLESTON	74	51	80	33	62	3	.4	-.1	.4	3.7	41	44.2	93	89	45	0	0	1	0
SC COLUMBIA	75	46	79	30	60	3	0	-.5	0	2.4	30	30.1	72	95	39	0	1	0	0
SC GREENVILLE	71	46	76	32	59	4	-.1	-.6	.1	6.6	84	26.9	66	85	39	0	1	1	0
SD ABERDEEN	60	30	70	22	45	9	0	0	0	0	0	0	0	75	34	0	5	0	0
SD HURON	61	29	69	19	45	7	0	-.2	0	2.7	77	14.1	76	85	40	0	4	0	0
SD RAPID CITY	61	32	69	25	46	6	0	-.1	0	2.1	88	13.8	81	80	34	0	3	0	0
SD SIOUX FALLS	60	36	69	22	48	9	0	-.2	0	2.9	63	16.5	70	83	38	0	3	1	0
TN CHATTANOOGA	69	47	76	32	58	6	1.6	-.8	1.6	7.2	94	37.7	88	92	45	0	1	1	1
TN KNOXVILLE	67	45	76	30	56	3	.3	-.4	.3	10.6	171	37.1	95	95	51	0	1	1	0
TN MEMPHIS	70	50	74	42	60	5	0	-.8	0	8.7	128	35.8	86	89	44	0	0	1	0
TN NASHVILLE	68	46	75	34	57	5	0	-.7	0	4.1	65	35.5	91	92	45	0	0	1	0
TX ABILENE	73	46	78	42	60	2	.1	-.3	.1	12.5	227	27.0	122	86	41	0	0	1	0
TX AMARILLO	61	37	67	31	49	-1	1.1	-.9	.7	6.4	160	20.9	112	95	53	0	1	4	1
TX AUSTIN	78	53	81	45	66	3	.6	-.1	.6	10.5	142	45.6	157	84	42	0	0	1	1
TX BEAUMONT	77	52	81	48	65	1	1.1	-.2	1.1	10.9	105	46.3	98	100	45	0	0	1	1
TX BROWNSVILLE	84	59	89	50	72	1	0	-.4	0	7.9	86	29.5	127	95	45	0	0	0	0
TX CORPUS CHRISTI	81	57	83	49	69	1	0	-.4	0	11.7	141	43.0	165	98	49	0	0	0	0
TX DEL RIO	81	53	83	40	67	4	.1	-.1	.1	7.0	125	27.3	169	86	38	0	0	0	0
TX EL PASO	77	37	81	30	57	1	0	-.1	0	1.0	48	12.3	171	69	19	0	3	0	0
TX FORT WORTH	71	47	77	42	59	-1	1.1	-.6	1.1	17.7	268	44.2	151	91	47	0	0	1	1
TX GALVESTON	74	60	76	55	67	1	.9	-.2	.9	6.5	70	33.0	91	95	68	0	0	1	1
TX HOUSTON	80	52	82	45	66	1	1.5	-.6	1.5	17.5	179	50.3	121	98	42	0	0	1	1
TX LUBBOCK	66	42	76	39	54	1	0	-.2	0	7.2	153	22.2	127	93	42	0	0	1	0
TX MIDLAND	75	46	82	42	60	3	0	-.2	0	6.2	182	17.4	138	84	33	0	0	0	0
TX SAN ANGELO	71	42	77	38	57	-2	0	-.3	0	11.3	217	30.0	183	97	42	0	0	0	0
TX SAN ANTONIO	80	48	82	39	64	1	.6	-.1	.6	10.7	147	36.7	144	95	38	0	0	1	1
TX VICTORIA	80	54	82	49	67	1	0	-.6	0	11.4	127	43.7	142	95	42	0	0	1	0
TX WACO	75	47	81	42	61	0	.5	0	.5	12.6	194	32.8	118	96	48	0	0	1	1
TX WICHITA FALLS	67	40	75	37	54	-3	.1	-.2	.1	9.4	149	30.5	120	98	49	0	0	1	0
UT BLANDING	63	32	64	30	47	5	0	-.2	0	2.9	112	11.3	73	35	0	5	0	0	0
UT SALT LAKE CITY	59	36	63	33	48	4	.3	0	.3	4.7	224	14.0	109	93	49	0	0	1	0
VT BURLINGTON	53	34	62	24	43	2	-.9	-.2	.7	11.9	175	38.0	136	82	45	0	4	3	1
VA LYNCHBURG	67	44	73	35	56	5	.1	-.5	.1	6.5	97	31.1	94	76	39	0	0	1	0
VA NORFOLK	65	49	72	38	57	2	.4	-.3	.2	7.0	82	34.1	86	89	46	0	0	2	0
VA RICHMOND	70	45	76	31	58	5	.3	-.4	.3	5.4	71	30.8	83	86	41	0	1	1	0
VA ROANOKE	65	42	72	36	54	3	0	-.6	0	8.4	111	26.9	78	87	43	0	0	0	0
WA COLVILLE	46	29	53	23	37	-1	0	-.4	0	3.6	129	20.1	153	98	78	0	5	0	0
WA OMAK	54	28	59	22	41	--	0	--	0	3.0	--	9.5	--	96	71	0	5	0	0
WA QUILLAYUTE	58	37	66	29	47	2	.4	-2.7	.4	22.0	121	77.1	100	99	66	0	3	2	0
WA SEATTLE-TACOMA	57	42	67	35	49	3	.2	-1.1	.2	10.0	112	26.1	93	91	59	0	0	1	0
WA SPOKANE	51	32	58	28	42	3	0	-.5	0	2.1	78	11.6	83	97	64	0	4	0	0
WA WALLA-WALLA	55	37	66	30	46	0	0	-.4	0	3.4	121	17.4	131	93	59	0	1	0	0
WA YAKIMA	58	29	64	25	44	2	0	-.2	0	1.8	150	5.1	88	90	45	0	5	0	0
WV BECKLEY	61	40	72	28	51	5	.5	-.1	.5	9.0	134	33.3	89	87	46	0	2	1	0
WV CHARLESTON	65	42	77	28	54	4	.7	-.1	.7	5.6	90	32.8	91	91	46	0	1	1	1
WV HUNTINGTON	66	44	75	31	55	5	.4	-.3	.4	4.7	81	34.4	101	86	45	0	1	1	0
WV PARKERSBURG	64	43	74	30	53	5	.4	-.2	.4	5.4	95	29.0	86	90	48	0	1	1	0
WI GREEN BAY	58	31	66	25	44	5	.1	-.3	.1	6.8	121	21.5	87	97	44	0	5	2	0
WI LA CROSSE	59	36	65	28	48	6	0	-.3	0	4.1	67	32.7	122	95	44	0	3	1	0
WI MADISON	59	33	68	23	46	6	0	-.4	0	7.4	123	29.7	108	92	49	0	3	1	0
WI MILWAUKEE	54	38	58	27	46	4	.3	-.2	.2	8.7	158	30.7	119	89	53	0	2	2	0
WY CASPER	60	27	64	22	44	5	0	-.2	0	1.0	48	9.9	98	84	26	0	5	0	0
WY CHEYENNE	58	31	66	27	44	5	0	-.2	0	1.1	50	16.0	113	83	29	0	5	0	0
WY LANDER	58	31	63	28	45	8	0	-.2	0	1.2	44	10.1	80	80	33	0	5	0	0
WY SHERIDAN	66	31	75	25	48	11	0	-.2	0	1.6	59	13.3	89	72	26	0	5	0	0
PR SAN JUAN	90	75	96	73	82	3	3.6	2.3	1.2	16.2	120	55.8	111	99	70	2	0	5	4

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

HEATING DEGREE DAYS (BASE 65°) FOR WEEK ENDING NOV. 8, 1981.
BASED ON 1941-70 NORMALS. + ACCUMULATION FROM JULY 1, 1981.

Table with columns for STATES AND STATIONS, WEEKLY DEPARTURE\*, SEASONAL ACCUMULATION +, and DEPARTURE FROM 1980-81. Rows list various states and cities with their corresponding heating degree day data.



## October Weather and Crop Summary

### OCTOBER WEATHER SUMMARY

**HIGHLIGHTS...**The remnants of three tropical systems moved across Mexico during the month and triggered heavy rains from the south central Texas coast to Missouri. One storm moved eastward and covered much of the dry southern States with above-normal rain. Pacific weather systems brought rain to most of the West and some heavy snow to the mountains. Temperatures were cooler than normal over most of the Nation. A hard freeze (28° or colder) moved southward through most of Kansas and then eastward through northern Tennessee. During the first four days of the month, rain moved through the Northeast and cold air spread over the eastern third of the Nation. Southerly winds brought warmer weather and showers back to the Plains.

**FIRST WEEK...**Showers and thunderstorms moved from the north central Plains through the midwest to the Northeast early in the week and left 4 to 6 days of good drying weather through the Corn Belt. In the South, moisture-laden air from the Gulf of Mexico and from the remnants of Tropical Storm Lidia encountered a slow-moving cold front in Texas and spread moderate to heavy rain from eastern New Mexico to Georgia and then to the mid-Atlantic States. Rain, with snow in the mountains spread through the Pacific Northwest and from central California to Colorado. Some heavy snow accumulated in the Sierra Nevada mountains and the northern Rockies.

**SECOND WEEK...**The remnants of Hurricane Norma moved across Mexico and triggered more torrential rain from west central Texas into southwestern Missouri. The rain caused local flooding and some washouts of newly planted grain but was beneficial to other grain areas. The moisture moved northward and caused moderate to heavy showers and thunderstorms through the central Great Lakes and into Canada. A storm system moving through the central Plateau and Rockies spread showers of rain or snow from Arizona to Montana. As the week ended, a very cold air mass plunged southward through the Rockies and western Plains.

**THIRD WEEK...**The storm system moved out of the Rockies but caused only widely scattered light showers through the Plains. As the system moved rapidly eastward, precipitation became more frequent and covered the Great Lakes region, the Northeast, and the area east of the Appalachians to the Gulf Coast. Cold air behind the system brought the coldest air of the season to the east coast. Freezing temperatures reached into Georgia. Weather systems were moving rapidly and the next cold front (with showers along and ahead of it) spread even colder air through the Plains and Mississippi Valley. A hard freeze covered most of the central and northern States through Kansas and Tennessee to the Appalachians -- terminating growth on annual vegetation.

**FOURTH WEEK...**General rains covered the eastern piedmont area from North Carolina through New York and spread through most of New England. Later, a major Pacific storm brought moderate to heavy rain to the coastal area of the Pacific Northwest and widespread showers, with snow in the mountains, from southern California to Montana. As the week ended, the remnants of Hurricane Otis brought moisture across Mexico into eastern Texas. The Pacific cold front moving through the southern Plains triggered heavy showers from southeastern Texas to eastern Kansas and into Missouri.

### WINTER WHEAT SEEDING

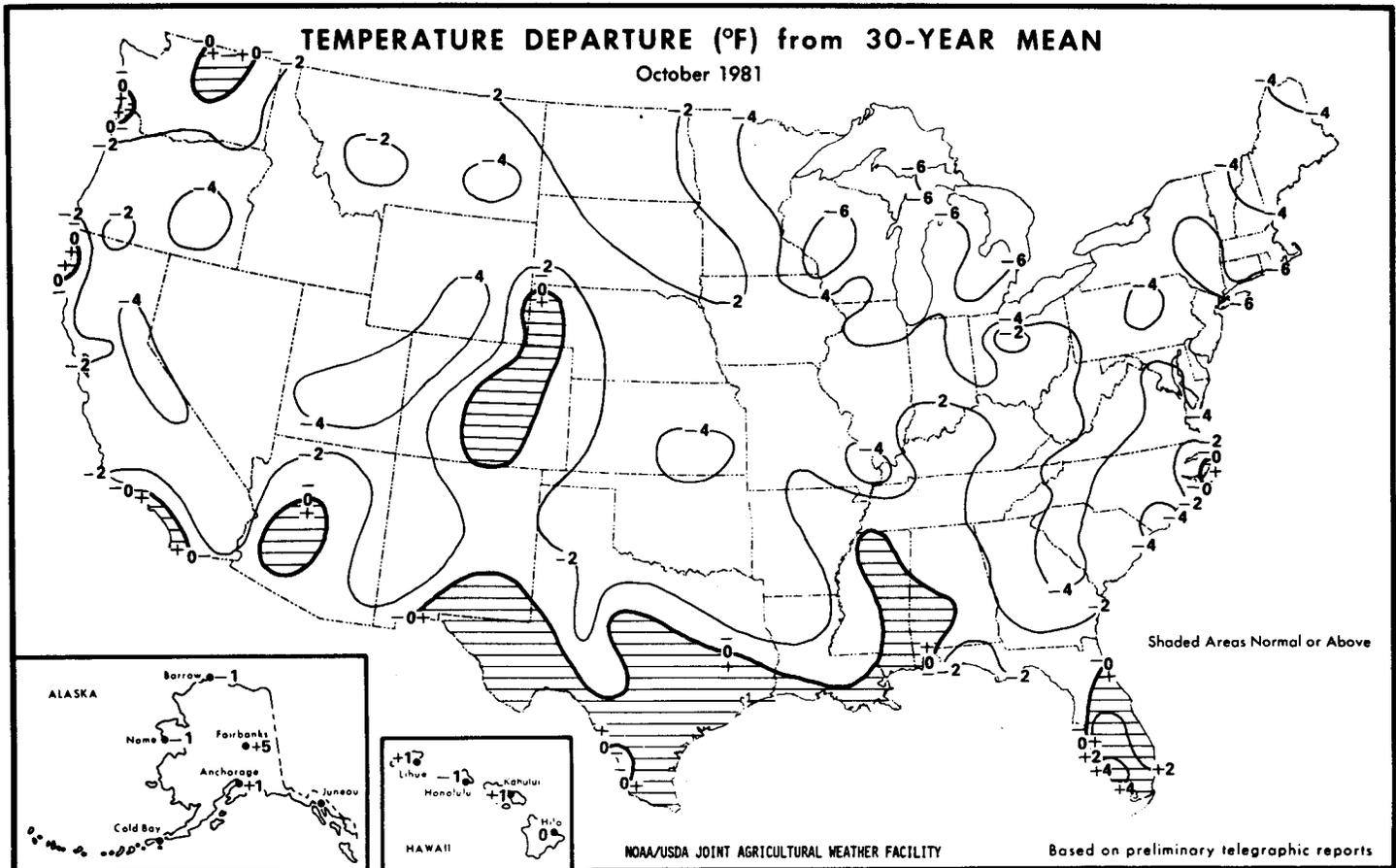
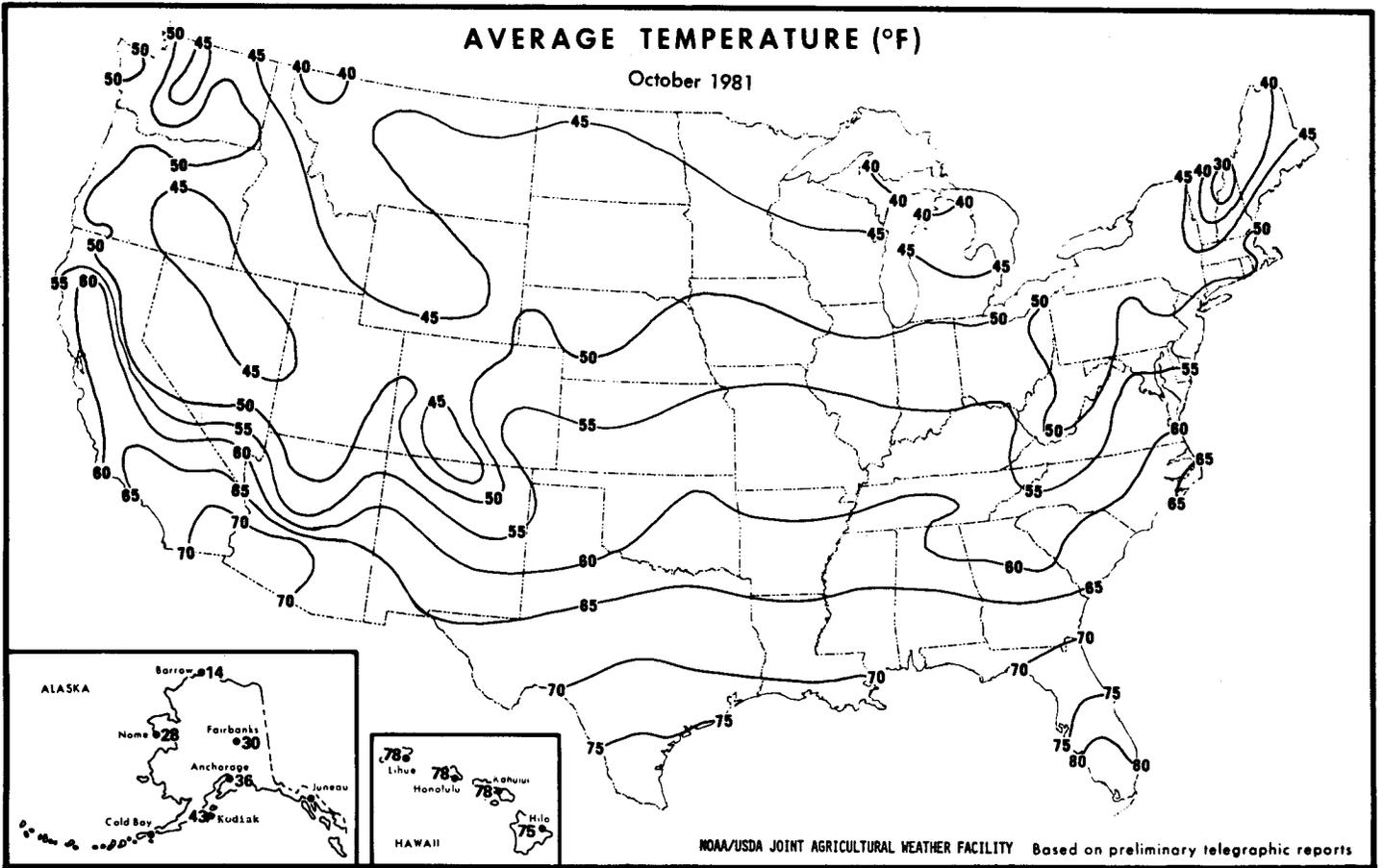
Seeding of the 1982 winter wheat crop reached 92 percent complete by November 8, compared to 93 percent a year earlier. Planting was virtually finished in the Northwest, Montana, Colorado, and in the Northern and Central Great Plains and neared completion in the Southern Plains and the Corn Belt. Plants had emerged on 85 percent of the acreage and stands were in fair to mostly good condition. Good soil moisture conditions in most areas aided germination and timely rains promoted growth and development of the crop. However, heavy rains damaged some fields in parts of Kansas, Oklahoma, and Texas. These will be replanted as conditions permit.

In Kansas, winter wheat seeding reached 97 percent complete by November 8. Although this is slightly ahead of normal, planting in the south central, east central, and southeast districts has been slowed by heavy rainfall. In addition to slowing the seeding pace, the rain also forced farmers to resow some fields where the seed was washed out or rotted in standing water. Aside from these problems, development has been exceptional. A great deal of wheat pasture should be available, unlike the past 2 years. Seeding reached 90 percent complete in Oklahoma and 85 percent in Texas by November 8. Heavy rains damaged some fields in these States and they will be reseeded as fields dry. Colorado and Nebraska producers were finished seeding the 1982 crop. Timely rains gave an additional boost to growth. The Nebraska crop had rooted well and was in good condition. Montana seedings were finished during October. Soil moisture conditions were improved by rain received during the end of October and beginning of November. The moisture, followed by warm weather should improve the condition of winter wheat going into the winter. The crop came up very spotty in most of the northeastern and eastern parts of the State due to dry conditions at seeding. The Washington crop was 97 percent seeded by November 8. A number of growers reseeded acreage due to poor stands and heavy cheat grass infestations.

### **National Weather Summary (Continued from page 1.)**

eastern Texas to eastern Kansas with lighter showers ahead of the cold front from Missouri to Ohio. The showers were moderate to heavy from Texas to Kansas and some severe weather was reported. A few light showers extended into Mississippi.





Temperature and Precipitation Data for October 1981

Temperature and Precipitation Data for				October 1981													
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	62	-1	3.3	-.7	LA	BATON ROUGE	68	-1	1.4	-1.3	TOLEDO		48	-5	3.8	1.6
	MOBILE	69	0	.9	-1.7		LAKE CHARLES	70	0	3.8	.3	YOUNGSTOWN		49	-4	2.3	-.6
	MONTGOMERY	66	0	3.0	-.8		NEW ORLEANS	71	1	2.0	-.3	OK	OKLAHOMA CITY	60	-2	7.7	5.1
AK	ANCHORAGE	36	1	3.5	2.1		SHREVEPORT	65	-3	5.6	2.7		TULSA	61	-2	6.7	3.5
	BARROW	14	-1	.3	-.3	ME	CARIBOU	40	-4	6.3	3.0	OR	ASTORIA	53	0	8.7	1.9
	FAIRBANKS	30	5	.9	-.2		PORTLAND	47	-2	4.7	1.4		BURNS	42	-5	1.3	-.4
	JUNEAU	51	0	1.6	-.2	MD	BALTIMORE	53	-4	2.6	-.2		MEDFORD	52	-1	1.2	-.9
	KODIAK	43	2	3.2	-3.1	MA	BOSTON	51	-4	3.4	-.4		PENDLETON	51	-2	.9	-.2
	NOME	28	-1	1.6	-.2		CHATHAM	51	-	3.8	-		PORTLAND	53	-1	4.1	-.5
AZ	FLAGSTAFF	47	0	1.8	-.4	MI	ALPENA	41	-6	3.0	1.0	PA	SALEM	50	-3	4.6	.6
	PHOENIX	74	2	1.3	-.8		DETROIT	48	-5	3.9	1.4		ALLENTOWN	50	-4	2.8	.1
	TUCSON	68	-2	.1	-.6		FLINT	45	-6	3.1	-.9		ERIE	50	-2	5.0	1.8
	WINSLOW	56	-1	1.1	-.4		GRAND RAPIDS	43	-5	2.6	-.0		HARRISBURG	51	-5	3.8	1.2
	YUMA	74	-2	0	-.3		HOUGHTON LAKE	48	-4	2.5	-.1		PHILADELPHIA	53	-4	2.7	-.2
AR	FORT SMITH	60	-3	6.1	2.6		LANSING	46	-6	1.3	-1.0		PITTSBURGH	49	-4	1.8	-.7
	LITTLE ROCK	61	-2	5.5	2.4		MARQUETTE	40	-5	4.6	1.8	RI	PROVIDENCE	49	-4	3.5	.7
CA	BAKERSFIELD	65	-2	.8	.5		MUSKEGON	47	-5	3.2	.5	SC	CHARLESTON	49	-5	3.4	.1
	EUREKA	54	0	3.7	.5		SAULT STE. MARIE	39	-7	4.5	1.6		COLUMBIA	64	-2	2.0	-1.1
	FRESNO	61	-3	.6	-.2	MN	DULUTH	41	-4	3.6	1.3		GREENVILLE	62	-2	1.9	-.7
	LOS ANGELES	65	0	.4	-.2		INT'L FALLS	40	-4	2.9	1.2	SD	ABERDEEN	58	-4	4.4	1.2
	RED BLUFF	62	-3	3.7	1.5		MINNEAPOLIS	47	-3	2.7	.9		HURON	49	-1	1.3	-.2
	SAN DIEGO	67	1	.1	-.2		ROCHESTER	45	-5	2.1	-.3		RAPID CITY	48	-2	1.8	-.9
	SAN FRANCISCO	59	-2	2.4	1.4	MS	SAINT CLOUD	65	-1	5.1	2.9	TN	SIoux FALLS	49	-1	2.5	1.0
	STOCKTON	61	-3	1.5	.8		JACKSON	65	0	3.3	1.1		CHATTANOOGA	59	-2	2.8	-.2
CO	DENVER	53	1	.8	-.3	MO	MERIDIAN	55	-3	4.0	.6		KNOXVILLE	59	-2	4.2	1.5
	GRAND JUNCTION	51	-4	2.1	1.2		COLUMBIA	55	-3	4.1	.9		MEMPHIS	63	0	5.8	3.2
	PUEBLO	56	1	.2	-.8		KANSAS CITY	55	-3	4.1	.9	TX	NASHVILLE	60	-1	2.8	.6
CT	BRIDGEPORT	51	-6	4.3	1.5		SAINT LOUIS	56	-3	3.8	1.0		ABILENE	66	0	10.7	8.1
	HARTFORD	49	-4	5.2	2.2		SPRINGFIELD	57	-2	7.9	4.5		AMARILLO	57	-3	1.8	.0
DC	WASHINGTON	58	-2	3.6	.9	MT	BILLINGS	46	-3	1.3	.4		AUSTIN	72	2	7.0	4.0
FL	APALACHICOLA	69	-2	.4	-2.5		GLASGOW	44	-2	1.4	-.8		BEAUMONT	71	1	5.7	2.0
	DAYTONA BEACH	74	1	1.1	-4.4		GREAT FALLS	45	-3	1.1	-.4		BROWNSVILLE	78	2	2.5	-.8
	FORT MYERS	80	4	.4	-4.0		HAVRE	44	-3	1.2	.5		CORPUS CHRISTI	75	1	11.0	8.2
	JACKSONVILLE	70	-1	1.4	-3.1		HELENA	44	-1	.8	-.2		DEL RIO	72	1	6.6	4.5
	KEY WEST	82	2	1.4	-4.2		KALISPELL	40	-3	.2	-1.0		EL PASO	65	1	.5	-.3
	MIAMI	80	2	1.6	-6.6		MILES CITY	45	-4	1.4	-.7		FORT WORTH	66	-2	14.2	11.5
	ORLANDO	76	2	3.1	-1.0	NE	MISSOULA	42	-2	.6	-.3		GALVESTON	75	2	3.0	.2
	TALLAHASSEE	68	-1	1.9	-1.0		GRAND ISLAND	51	-3	1.1	-.0		HOUSTON	72	1	7.0	2.9
	TAMPA	74	-1	.9	-1.6		LINCOLN	52	-3	.9	-.6		LUBBOCK	60	-1	5.3	3.2
	WEST PALM BEACH	78	1	2.1	-6.7		NORFOLK	50	-3	1.5	.2		MIDLAND	66	0	5.5	4.1
GA	ATLANTA	60	-2	3.0	.5		NORTH PLATTE	49	-2	.6	-.4		SAN ANGELO	65	-2	8.7	6.8
	AUGUSTA	59	-5	2.9	.7		OMAHA	51	-3	1.7	-.1		SAN ANTONIO	72	1	8.6	5.8
	MACON	63	-3	4.5	2.2	NV	VALENTINE	48	-2	2.0	1.1		SAN ANTONIO	73	1	10.2	6.6
	SAVANNAH	65	-2	1.3	-1.5		ELY	43	-3	3.7	3.1		WACO	69	0	8.4	5.8
HI	HILO	75	0	10.2	-.8		LAS VEGAS	64	-3	.2	.0	UT	WICHITA FALLS	63	-3	7.8	5.1
	HONOLULU	78	-1	1.8	.3		RENO	47	-3	.6	.2		BLANDING	49	-3	1.5	.1
	KAHULUI	78	1	1.5	.4	NH	WINNEMUCCA	45	-3	1.1	.4		SALT LAKE CITY	50	-2	3.9	2.7
	LIHUE	78	1	4.2	.4		CONCORD	45	-4	6.5	3.8	VT	BURLINGTON	45	-4	5.3	2.6
ID	BOISE	49	-3	1.0	.2	NJ	ATLANTIC CITY	53	-4	3.0	-.5	VA	LYNCHBURG	54	-4	2.8	.2
	LEWISTON	50	-2	1.4	.3		TRENTON	53	-4	2.7	.2		NORFOLK	60	-2	3.3	.2
	POCATELLO	45	-3	1.5	.7	NM	ALBUQUERQUE	56	-2	1.4	.6		RICHMOND	56	-3	2.4	-.5
IL	CAIRO	58	-4	2.3	-.4		ROSWELL	60	0	1.0	-.2	WA	ROANOKE	54	-4	3.9	.7
	CHICAGO	49	-6	1.8	-.8	NY	ALBANY	45	-6	3.6	1.0		COLVILLE	45	-1	1.8	.4
	MOLINE	50	-4	4.4	1.7		BINGHAMTON	46	-4	4.7	1.7		OMAK	50	-	2.1	-.1
	PEORIA	53	-2	1.4	-1.1		BUFFALO	48	-4	3.3	.3		QUILLAYUTE	49	-2	15.3	3.7
	ROCKFORD	49	-4	2.5	-.4		NEW YORK	54	-4	3.2	.2		SEATTLE-TACOMA	51	-1	6.4	2.5
	SPRINGFIELD	55	-2	1.9	-1.2		ROCHESTER	47	-5	3.3	.7		SPOKANE	46	-2	1.5	.1
IN	EVANSVILLE	57	-1	2.4	-.1		SYRACUSE	48	-5	6.7	3.6		WALLA-WALLA	53	-1	2.4	.9
	FORT WAYNE	50	-4	3.4	-.6	NC	ASHEVILLE	55	-2	2.2	-1.1		YAKIMA	49	-1	1.2	.6
	INDIANAPOLIS	53	-3	2.4	-.1		CHARLOTTE	58	-4	3.9	1.2	WV	BECKLEY	50	-3	3.2	.7
	SOUTH BEND	50	-3	1.2	-1.9		GREENSBORO	56	-3	3.6	.7		CHARLESTON	54	-3	2.4	-.1
IA	BURLINGTON	53	-2	4.0	1.0		HATTERAS	66	1	2.7	-2.1		HUNTINGTON	55	-2	2.5	-.4
	DES MOINES	52	-2	2.1	.0		RALTEIGH	57	-3	4.6	1.8		PARKERSBURG	54	-3	1.4	-.7
	DUBUQUE	--	--	--	--	ND	WILMINGTON	61	-4	1.4	-1.9	WI	GREEN BAY	45	-4	3.4	1.5
	STIOUX CITY	50	-3	2.9	1.3		BISMARCK	47	0	.5	-.3		LA CROSSE	46	-6	1.9	-.2
KS	CONCORDIA	54	-3	.8	-1.0		FARGO	45	-2	2.4	1.3		MADISON	47	-3	2.7	.5
	DOGGE CITY	56	-2	1.4	-.3		WILLISTON	45	-1	.5	-.1	WY	MILWAUKEE	46	-5	2.7	.7
	GOODLAND	52	-1	.1	-.9	OH	AKRON-CANTON	50	-3	1.7	-.7		CASPER	44	-4	.8	-.1
	TOPEKA	56	-2	3.7	1.0		CINCINNATI	54	-3	2.3	.1		CHEYENNE	46	-2	.9	-.1
	WICHITA	56	-4	4.7	2.2		CLEVELAND	50	-4	2.3	-.3		LANDER	44	-3	.6	-.6
KY	LEXINGTON	56	-2	2.4	-.3		COLUMBUS	51	-3	1.4	-.5		SHERIDAN	46	-2	1.0	.0
	LOUISVILLE	57	-1	1.6	-.8		DAYTON	52	-4	2.8	.9	PR	SAN JUAN	86	5	9.3	3.7

Based on 1941-70 normals

## Heating Degree Days (Base 65° F.)

## October 1981

ALA. Birmingham . . .	137	MAINE, Caribou . . .	757	OKLA. Okla. City . . .	185
Mobile . . . . .	43	Portland . . . . .	566	Tulsa . . . . .	178
Montgomery . . . . .	63	MD. Baltimore . . . . .	376	OREG. Astoria . . . . .	372
ALASKA, Anchorage . . .	893	MASS. Boston . . . . .	419	Burns . . . . .	693
Barrow . . . . .	1569	Chatham . . . . .	419	Medford . . . . .	392
Fairbanks . . . . .	1094	MICH. Alpena . . . . .	726	Pendleton . . . . .	440
Juneau . . . . .	--	Detroit . . . . .	534	Portland . . . . .	355
Nome . . . . .	1123	Flint . . . . .	621	Salem . . . . .	447
ARIZ. Flagstaff . . . . .	558	Grand Rapids . . . . .	513	PA. Allentown . . . . .	465
Phoenix . . . . .	1	Houghton Lake . . . . .	676	Erie . . . . .	467
Tucson . . . . .	34	Lansing . . . . .	578	Harrisburg . . . . .	437
Winslow . . . . .	289	Marquette . . . . .	766	Philadelphia . . . . .	364
Yuma . . . . .	1	S. Ste. Marie . . . . .	799	Pittsburgh . . . . .	475
ARK. Fort Smith . . . . .	184	MINN. Duluth . . . . .	752	Scranton . . . . .	485
Little Rock . . . . .	183	Internatl Falls . . . . .	764	R. I. Providence . . . . .	486
CALIF. Bakersfield . . .	69	Minneapolis . . . . .	564	S. C. Charleston . . . . .	88
Eureka . . . . .	324	Rochester . . . . .	621	Columbia . . . . .	131
Fresno . . . . .	118	St. Cloud . . . . .	--	Greenville . . . . .	229
Los Angeles . . . . .	36	MISS. Jackson . . . . .	104	S. DAK. Aberdeen . . . . .	--
Red Bluff . . . . .	117	Meridian . . . . .	96	Huron . . . . .	480
Stockton . . . . .	116	MO. Columbia . . . . .	326	Rapid City . . . . .	531
San Diego . . . . .	9	Kansas City . . . . .	309	Sioux Falls . . . . .	497
San Francisco . . . . .	197	St. Louis . . . . .	298	TENN. Chattanooga . . . . .	211
COLO. Denver . . . . .	375	Springfield . . . . .	266	Knoxville . . . . .	196
Grand Junction . . . . .	439	MONT. Billings . . . . .	583	Memphis . . . . .	153
Pueblo . . . . .	272	Glasgow . . . . .	639	Nashville . . . . .	175
CONN. Bridgeport . . . . .	445	Great Falls . . . . .	603	TEX. Abilene . . . . .	116
Hartford . . . . .	481	Havre . . . . .	648	Amarillo . . . . .	271
D. C. Washington . . . . .	219	Helena . . . . .	650	Austin . . . . .	44
FLA. Apalachicola . . . .	17	Kalispell . . . . .	760	Beaumont . . . . .	59
Ft. Myers . . . . .	0	Miles City . . . . .	619	Brownsville . . . . .	14
Jacksonville . . . . .	13	Missoula . . . . .	718	Corpus Christi . . . . .	24
Key West . . . . .	0	NEBR. Grand Island . . . . .	439	Del Rio . . . . .	33
Miami . . . . .	0	Lincoln . . . . .	393	El Paso . . . . .	93
Orlando . . . . .	0	Norfolk . . . . .	464	Fort Worth . . . . .	116
W. Palm Beach . . . . .	0	North Platte . . . . .	492	Galveston . . . . .	25
Tallahassee . . . . .	36	Omaha . . . . .	430	Houston . . . . .	50
Tampa . . . . .	0	Valentine . . . . .	514	Lubbock . . . . .	202
GA. Atlanta . . . . .	179	NEV. Ely . . . . .	680	Midland . . . . .	109
Augusta . . . . .	187	Las Vegas . . . . .	74	San Angelo . . . . .	133
Macon . . . . .	106	Reno . . . . .	556	San Antonio . . . . .	52
Savannah . . . . .	59	Winemucca . . . . .	600	Victoria . . . . .	46
IDAHO, Boise . . . . .	497	N. H. Concord . . . . .	608	Waco . . . . .	75
Lewiston . . . . .	472	N. J. Atlantic City . . . . .	356	Wichita Falls . . . . .	144
Pocatello . . . . .	603	Trenton . . . . .	365	UTAH, Milford . . . . .	569
ILL. Cairo . . . . .	241	N. MEX. Albuquerque . . . . .	280	Salt Lake City . . . . .	402
Chicago . . . . .	489	Roswell . . . . .	183	VT. Burlington . . . . .	617
Moline . . . . .	459	N. Y. Albany . . . . .	622	VA. Lynchburg . . . . .	353
Peoria . . . . .	360	Binghanton . . . . .	573	Norfolk . . . . .	189
Rockford . . . . .	493	Buffalo . . . . .	514	Richmond . . . . .	273
Springfield . . . . .	332	New York . . . . .	338	Roanoke . . . . .	357
IND. Evansville . . . . .	256	Rochester . . . . .	546	WASH. Colville . . . . .	619
Fort Wayne . . . . .	472	Syracuse . . . . .	523	Omak . . . . .	--
Indianapolis . . . . .	368	N. C. Asheville . . . . .	326	Quillayute . . . . .	480
South Bend . . . . .	460	Charlotte . . . . .	228	Seattle-Tacoma . . . . .	431
IOWA, Burlington . . . . .	381	Greensboro . . . . .	299	Spokane . . . . .	584
Des Moines . . . . .	406	Hatteras . . . . .	104	Walla Walla . . . . .	351
Dubuque . . . . .	--	Raleigh . . . . .	253	Yakima . . . . .	497
Sioux City . . . . .	471	Wilmington . . . . .	149	W. VA. Beckley . . . . .	453
KANS. Concordia . . . . .	343	N. DAK. Bismarck . . . . .	554	Charleston . . . . .	335
Dodge City . . . . .	284	Fargo . . . . .	627	Huntington . . . . .	307
Goodland . . . . .	405	Williston . . . . .	600	Parkersburg . . . . .	358
Topeka . . . . .	283	OHIO, Akron-Canton . . . . .	444	WIS. Green Bay . . . . .	614
Wichita . . . . .	292	Cincinnati . . . . .	344	Madison . . . . .	566
KY. Lexington . . . . .	286	Cleveland . . . . .	458	Milwaukee . . . . .	590
Louisville . . . . .	268	Columbus . . . . .	429	WYO. Casper . . . . .	633
LA. Baton Rouge . . . . .	64	Dayton . . . . .	398	Cheyenne . . . . .	580
Lake Charles . . . . .	71	Toledo . . . . .	529	Lander . . . . .	655
New Orleans . . . . .	36	Youngstown . . . . .	491	Sheridan . . . . .	595
Shreveport . . . . .	129				

## National Agricultural Summary

November 2-8, 1981

**HIGHLIGHTS:** Clear weather provided good drying conditions from the Northern Plains through the Lake States and farmers made rapid progress with this year's late harvest. However, wet conditions in most of the Central and Southern Plains and the Corn Belt delayed fieldwork. Farmers in Illinois, Iowa, Kansas, Missouri, Nebraska, and Oklahoma only had 1 to a little over 3 days suitable for fieldwork due to rainy weather. In other areas of the Nation, 4 to 7 days were available for fieldwork. Soil moisture supplies were adequate to surplus in most of the North Central region, Arkansas, and Oklahoma. Short to adequate soil moisture was reported in other States. Corn harvest in the 17 major producing States was 70% finished, behind last year's 93% and the 80% average. Soybean combining in the 18 major States advanced to 76% complete, lagging last year's 85% and the 82% average. Harvesting of corn and soybeans moved at a rapid pace in northern areas, but progress was still behind schedule. In the 14 major States, 49% of the cotton acreage was harvested, compared with 61% a year earlier. Rain delayed the sorghum harvest and progress continued to lag behind normal. Only 67% of the acreage was harvested, well behind last year's 92% and the 88% average. Winter wheat was 92% seeded in the 15 major States, 1 point behind last year. Plants had emerged on 85% of the acreage; stands were in fair to mostly good condition. Cattle were beginning to graze wheat pastures, although wet fields prevented grazing in some areas. Recent rainfall was beneficial for fall pastures; conditions were fair to good except in parts of the Southeast where poor to fair conditions were reported due to dry weather.

**CORN:** Harvesting of corn in the 17 major producing States advanced to 70% complete, behind last year's 93% and the 80% average. Progress was as much as 21 percentage points behind normal in Wisconsin, and 20 points behind in Indiana and Ohio. Nearly ideal weather conditions in northern producing areas enabled producers to harvest at a rapid pace for the second consecutive week. Michigan growers harvested 25% of their acreage during the week, Minnesota 20%, and Wisconsin 18%. Growers in Nebraska and Kansas fell 15 points behind average. Rain and wet fields brought activities to a near standstill in many western and southern parts of the Corn Belt. High moisture content of the grain slowed the Ohio harvest.

**SOYBEANS:** Soybean combining in the 18 major producing States reached 76% complete, lagging last year's 85% and the 82% average. Progress still lagged the average in all areas except the Southeast, where growers harvested at a faster than normal pace. Kentucky producers harvested 21% of their acreage during the week while those in Tennessee combined 22% during the week. Progress was 15 or more percentage points behind average in Arkansas, Kansas, Kentucky, and Louisiana. Growers in northern areas spent long hours in the fields as they took advantage of excellent weather conditions. Field losses have been higher than usual in some late-planted fields as pods shattered before combines entered fields. Also, some plants were very short with pods close to the ground, which increased losses.

**SMALL GRAINS:** Winter wheat seeding in the 15 major producing States was 92% finished, 1 point behind last year. Seeding neared completion in

all areas except California, where 33% was seeded; planting in this State is normally done at a later date. Plants had emerged on 85% of the acreage, 1 point ahead of a year ago. Stands were in fair to mostly good condition. Nearly all of the Kansas acreage was emerged and cattle were beginning to graze wheat pastures. The majority of the Oklahoma fields could support grazing, but fields are still too wet. Soil moisture was excellent in unplanted fields on the Plains in Texas, but it was still too wet for planting in the Cross Timbers area.

**COTTON:** In the 14 major producing States, 49% of the cotton acreage had been harvested, compared with 61% last year. Defoliation was active, although many producers are waiting for a hard freeze to kill plants. Warm, dry weather in Texas hastened maturity and provided excellent harvesting conditions. Harvesting progress was ahead of normal in all States except Arizona, Arkansas, Missouri, Oklahoma, and Texas.

**SORGHUM:** Sorghum harvest continued to lag behind normal in all seven major States except South Dakota. Progress was as much as 40 percentage points behind normal in Kansas where wet conditions again delayed harvesting. In the seven major States, harvesting slowly advanced to 67% complete, well behind last year's 92% and the 88% average.

**OTHER CROPS:** The peanut harvest neared completion in all areas except Texas where harvesting was in full swing. Scattered showers interrupted activities and some heavy rains washed away recently dug peanuts. Progress slowly moved to 58% complete, well behind the 82% average.

Tobacco stripping continued active. The Kentucky burley crop was 35% stripped and the Tennessee crop 67% stripped. Maryland growers began stripping this year's crop and progress moved to 10% complete. Quality and weight were good.

The sunflower harvest was 73% complete in Texas, 85% in Minnesota, 88% in North Dakota, and 92% finished in South Dakota. Dry weather enabled farmers in northern areas to make good harvesting progress.

**FRUITS AND NUTS:** Northern growers picked a limited volume of apples, but most growers began orchard maintenance such as pruning, clean-up work, and rodent control. Florida's citrus tree condition improved following beneficial rains. Most irrigation was stopped. Harvesting continued to increase for early citrus varieties. Lemon picking increased in the Yuma and Salt River Valley areas of Arizona. Navel and sweet oranges and grapefruit were also being picked, but on a limited basis. California's new crop Navel orange harvest picked up momentum as the old crop Valencia harvest was nearly completed. Walnut harvesting continued active in the San Joaquin Valley. In the Rio Grande Valley of Texas, harvesting of early oranges and grapefruit was active. Pecan picking ranged from 23% complete in Texas to 41% in Mississippi.

**VEGETABLES:** A limited volume of hardy vegetables continued to move to market in some northern areas. Gusty winds and rain damaged some vegetables in parts of Florida and washed out a few plant beds. Total shipments increased 33% from the previous week as the volume of most

crops continued to increase. California's lettuce harvest decreased on the Central Coast but was heavy in the San Joaquin Valley and got underway in the Blythe area. Broccoli harvests were active in coastal areas and light harvests of sweet corn were reported in the Coachella Valley. Growers in the Rio Grande Valley of Texas harvested bell peppers, cucumbers, cabbage, and tomatoes. Cabbage harvest was in full swing and carrot and cauliflower harvests were starting in the San Antonio-Winter Garden

area. Producers planted spinach, onions, and carrots.

**PASTURES AND LIVESTOCK:** Cattle were mostly on fall pastures and crop stubble. Recent rainfall promoted good growth of grasses and pastures were in fair to good condition except in parts of the Southeast where dry weather has resulted in poor to fair conditions. Winter wheat fields began to provide limited grazing. Cattle were in fair to mostly good condition.

### CROP PROGRESS FOR WEEK ENDING NOV. 8, 1981

NA - NOT AVAILABLE

	CORN % HARVESTED		
	1981	1980	AVG.
COLO	58	87	82
GA	99	98	94
ILL	79	96	85
IND	55	94	75
IOWA	77	97	84
KANS	75	97	90
KY	89	94	85
MICH	55	65	69
MINN	72	93	83
MO	75	95	81
NEBR	60	96	75
N C	96	96	95
OHIO	55	95	75
PA	67	79	63
S DAK	85	95	84
VA	87	86	81
WIS	47	73	68
17 STATES	70	93	80

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

	SOYBEAN % HARVESTED		
	1981	1980	AVG.
ALA	70	70	64
ARK	44	55	61
GA	52	41	39
ILL	93	100	97
IND	80	98	92
IOWA	95	100	97
KANS	70	90	85
KY	66	93	82
LA	72	84	88
MICH	80	90	85
MINN	93	99	97
MISS	63	66	70
MO	71	92	83
NEBR	93	99	93
N C	43	26	31
OHIO	85	100	95
S C	36	17	27
TENN	51	84	65
18 STATES	76	85	82

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

	SORGHUM % HARVESTED		
	1981	1980	AVG.
COLO	48	93	85
KANS	45	85	85
MO	68	91	84
NEBR	65	99	85
OKLA	45	70	70
S DAK	91	95	90
TEX	90	96	95
7 STATES	67	92	88

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

	COTTON % HARVESTED		
	1981	1980	AVG.
ALA	84	89	58
ARIZ	45	40	55
ARK	71	93	80
CALIF	80	62	NA
GA	82	93	66
LA	89	94	85
MISS	92	91	81
MO	56	90	84
N MEX	48	36	34
N C	75	88	64
OKLA	10	30	15
S C	88	90	78
TENN	68	91	66
TEX	29	49	42
14 STATES	49	61	NA
EXCL. STATES WITH NA	45	60	52

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

	WINTER WHEAT % PLANTED		
	1981	1980	AVG.
CALIF	33	22	NA
COLO	100	100	100
IDAHO	99	99	100
ILL	89	100	98
IND	90	97	94
KANS	97	98	96
MO	76	91	82
MONT	100	100	100
NEBR	100	100	100
OHIO	97	100	100
OKLA	90	90	95
OREG	97	94	NA
S DAK	100	100	100
TEX	85	85	89
WASH	97	99	98
15 STATES	92	93	NA
EXCL. STATES WITH NA	93	95	95

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

	WINTER WHEAT % EMERGED		
	1981	1980	AVG.
CALIF	20	0	NA
COLO	93	95	98
IDAHO	85	94	97
ILL	75	93	NA
IND	75	88	75
KANS	97	90	NA
MO	68	81	72
MONT	100	100	100
NEBR	100	100	NA
OHIO	75	95	85
OKLA	80	65	75
OREG	81	79	NA
S DAK	100	100	100
TEX	76	78	NA
WASH	90	93	NA
15 STATES	85	84	NA
EXCL. STATES WITH NA	83	83	84

## State Summaries of Weather and Agriculture

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

**ALABAMA:** Temperatures above normal. Rain scattered, mostly north.

Fieldwork: 5.4 days. Activities: row crop harvest; land preparation; small grain seeding; pecan harvest. Soybeans harvested 70%, 70% 1980; 64% average. Cotton harvested 84%, 89% 1980, 58% average. Wheat seeded 49%, 75% 1980, 72% average. Sorghum harvested 87%, 92% 1980. Conditions: soybeans, wheat fair to good; pastures fair.

**ARIZONA:** Sunny, warm through 5th. Weak storm system 6th, 7th lowered maximum temperatures by 5 to 10°, scattered light showers, few thunderstorms northern two-thirds, amounts mostly under 0.25 in. Average temperatures above normal.

Cotton harvest excellent progress, harvest increasing rapid rate, 45% 1st harvested compared 40% last year, average 55%. Sorghum harvest steady rate, latest plantings approaching maturity. Alfalfa haying continued, regrowth seasonally slow. Sugarbeets continued good progress, weeding, thinning active. Land preparation, planting small grains continued limited basis, earlier plantings being irrigated. Lettuce harvest rapidly winding down southeast, harvest central areas underway but limited, earliest plantings Yuma area at maturity, harvest expected week of 9th. Mixed vegetable harvest, mostly greens, green onions, cabbage making good progress. Broccoli, carrots, cauliflower making good growth, earliest plantings nearing maturity. Harvest cantaloupes, honeydews virtually complete. Lemon picking increasing Yuma, Salt River Valley areas. Navel, sweet oranges, grapefruit being picked but volume limited. Other early bearing varieties sizing well, showing good color. Trees flushed new growth, mostly good condition. Ranges in the southwestern Deserts poor, other areas fair to good. Water supplies, soil moisture short southwestern Deserts, adequate other areas. Cattle fair to good. Sheep good.

**ARKANSAS:** Temperatures slightly above normal. Some rainfall. Highest temperature 82°, lowest 24°. All departures from normal +4 to -2°. Most rainfall 3.74 in., least zero.

Wet fields prevented much harvesting of cotton and soybeans. Four days fieldwork, but two days or less in eastern counties. Soybeans shedding 99%, 93% 1980; mature 95%, 87% 1980; harvested 44%, 55% 1980, 61% average. Cotton harvested 71%, 93% 1980, 80% average. Wheat planted 43%, 74% 1980, 72% average. Oats planted 63%, 89% 1980, 75% average. Both crops growing well. Soil moisture adequate to surplus. Pastures and livestock good condition.

**CALIFORNIA:** At the end of the week, a weak weather system moved onshore from off the Central Coast. Light amounts of rain, generally less than 0.10 in. Sprinkled portions of the Central Coast ranges, the Sierra Nevada, and the Central Valley. Mean temperatures were generally above normal. Warmest readings were from the South Coast.

Winter wheat planting active: 33% complete, 22% last year. Rice winding down. Cotton progressing rapidly; 80% complete, 62% year ago. Sugarbeets, corn harvest near completion. Beet planting Imperial near completion. Sorghum harvest active. Avocado harvest continuing, date harvest progressing in Desert Valley, fair quality. Desert grapefruit movement slow, Desert

lemons active. New crop Navel oranges picking up, old crop Valencia pack nearly complete. Almond harvest complete, harvest of walnuts continues in San Joaquin Valley. Broccoli harvest active coastal areas, light harvest sweet corn Coachella Valley. Lettuce volume decreasing Central Coast, heavy San Joaquin Valley. Harvest started Blythe. Potato harvest nearly complete Tulalake-Butte Valley. Market tomato harvest active South Coast, decreasing northern San Joaquin Valley. Rangeland grass development good result of recent rains. Some supplemental feeding continues. Stock water supplies short many areas. Lambing increasing Sacramento, San Joaquin Valleys. Sheep being moved alfalfa fields.

**COLORADO:** On 7th scattered showers, isolated thunderstorms at lower levels, scattered snow in the high country. The southwest, south central parts of the State received the higher precipitation amounts. Temperatures averaged 2° above normal for the Arkansas, Kansas, Platte and Rio Grande Basins; normal for the Colorado River Basin.

Winter wheat emerged 93%, 95% 1980, 98% average. Corn mature 97%, 100% 1980, 100% average. Grain harvested 58%, 87% 1980, 82% average. Sorghum ripe 93%, 99% 1980, 99% average. Grain harvested 48%, 93% 1980, 85% average. Sugarbeets harvested 94%, 96% 1980, 95% average.

**FLORIDA:** Moist easterly winds kept temperatures well above normal. A cold front on the 6th brought dry, cool weekend weather. The morning of the 8th was the coldest this fall with lows ranging from 30's Panhandle to low 50's south. Scattered showers, thundershowers over Peninsula brought many areas first good rainfall in a month. Panhandle mostly dry with 1.00 to 3.00 in. east Peninsula and 1.00 in. or less, interior, west coast.

Soil moisture variable, mostly short Panhandle, some central areas; mostly adequate north, most of south, excessive southeast tip. Peanut harvest practically complete. Harvesting soybeans, cotton and sugarcane very active. Some delays caused by rain. Planting small grains, winter grazing resumed where moisture adequate. Rains, especially over much of the Panhandle, and warm days benefited pastures. Grazing seasonally poor to fair; however, conditions good some Peninsula locations. Winter pasture seeding delayed earlier by dry soils, about completed where sufficient rains have occurred. Condition cattle, calves varies from fair to good, depending primarily on amount of forage available. Citrus grove condition improved with rains. Most irrigation stopped. Citrus foliage turning dark and maturing. Good natural fruit color. Harvest continues to increase on early types of citrus. Wet, windy weather prevailed first half of week in vegetable areas. Rainfall mostly light to moderate. Gusty winds, rain resulted in plant damage, washed beds some areas. Warm days, mild nights continued most of week. Volume most crops continues to increase. Total vegetable shipments up 33% from previous week. Harvest gained snap beans, cabbage, carrots, sweet corn, cucumbers, eggplant, escarole, lettuce, okra, parsley, peppers, southern peas and tomatoes. Supplies about steady squash. Volume declined radishes, harvest of celery underway. Strawberry transplanting complete Hillsborough-Manatee area.

Limited supply fall watermelons and cantaloupes available. Quality, size good.

GEORGIA: Rainfall fairly light. Most amounts less than 0.50 in. Only exception in southeast where 1.00 to 2.00 in. fell 4th and 5th. Temperatures well above normal averages about 8° above north to 3° above in southeast. Averages mid 50's in mountains to upper 60's along coast. The 7th and 8th clear and cold. No rainfall reported. Average temperatures from mid 40's in mountains to near 60 south.

Soil moisture mostly short to adequate. Five days suitable for fieldwork. Harvesting and small grain seeding active. Corn 99% harvested, 98% last year, 94% average. Peanuts 100% dug, 98% last year, 99% average; 99% threshed, 97% last year, 98% average. Soybeans fair to good, 52% harvested, 41% last year, 39% average. Cotton 98% open, 99% last year; 82% picked, 93% last year, 66% average. Apples 98% gathered, 99% last year. Pecans fair to good, 32% harvested, 29% last year and average. Small grains: wheat 32% planted, 45% last year, 49% average; rye 67% planted, 74% last year, 64% average; other small grains 57% seeded, 67% last year and 61% average. Pastures fair to good. Cattle and hogs fair to good.

HAWAII: Fair weather returned to the Island chain. Showers more frequent during the first half of the week. Plantings were improving due to the favorable weather. Spraying continues for disease and insect control. Vegetables: supplies adequate and increasing. Bananas: rains beneficial. Production in seasonal flush. Papayas: some improvement in marketing problems but heavy field abandonment continues. Pineapples: light harvest. Sugar: harvesting gradually decreasing. Pastures: much needed rain fell in some pastures.

IDAHO: Light rains fell in scattered areas of north, but for the most part the weather was ideal for finishing up fieldwork. Temperatures ranged from normal to 8° above normal.

Sugarbeet and corn harvests continued and winter wheat seeding was virtually complete. Livestock in good condition and most have been moved to their winter pastures. Hay supplies appear to be abundant.

ILLINOIS: Temperatures 7 to 9° above normal. Precipitation 0.25 to 0.50 in., heaviest west district.

Corn 79% harvested, 96% 1980, 85% average. Soybeans 93% combined, 100% 1980, 97% average. Winter wheat 89% seeded, 100% 1980, and 98% average; 75% emerged, 93% 1980; condition 11% excellent, 78% good, 11% fair. Corn and soybean acreage 32% tilled, 44% 1980, and 43% average. Pastures 9% excellent, 69% good, 19% fair, 3% poor. Soil moisture 1% short, 64% adequate, 35% surplus. Fieldwork: 3.5 days suitable.

INDIANA: Warm, dry week. Temperatures averaged 7° above normal and ranged from 25 to 78°. Rainfall only 0.10 in. in east to 0.30 in. in west.

Soil temperatures in 50's, and 5° above normal. Fieldwork averaged 5 days. Topsoil and subsoil moisture adequate. Corn 55% harvested, 1980 94%, average 75%. Soybeans 80% combined, 1980 98%, average 92%. Moisture content: Corn 26%, soybeans 15%. Wheat 90% seeded, 1980 97%, average 94%. Wheat 75% emerged, 1980 88%, average 75%. Wheat stands good. Spring cropland 25% plowed, 1980 50%, average 30%. Tobacco 15% stripped.

IOWA: A warm, cloudy week with frequent fog clearing for the weekend. Light rain and drizzle was recorded north increasing southward

to heavy rain over the south central and southeast. Cooler at the end of the week. Soil temperatures, 4 in. level, declined from the upper 40's and 50's into the 40's statewide at the weekend.

Topsoil moisture: 4% short, 53% adequate, 43% surplus. Subsoil moisture: 22% short, 68% adequate, 10% surplus. Corn acreage harvested: 1981 77%, 1980 97%, normal 84%. Soybean acreage harvested: 1981 95%, 1980 100%, normal 97%. Fall plowing completed: 1981 24%, 1980 45%, normal 35%. Fertilizer application complete: 1981 24%, 1980 46%. Fieldwork: 2.5 days suitable. Livestock reported to be in mostly good condition.

KANSAS: Significant rains 0.75 in. to over 1.00 in. west and 1.00 to over 2.00 in. east. A few stations reported heavy accumulations up to 6.26 in. Temperatures averaged 47° (4° above normal) northwest, 48 to 52° (1 to 3° above normal) elsewhere. Frost and freezing temperatures last half of week.

Wheat 97% planted, 98% last year, 96% average; 97% emerged, 90% last year; 4% pastured, 5% last year, 3% average. Corn 75% harvested, 97% last year, 90% average. Soybeans 70% harvested, 90% last year, 85% average. Sorghum 97% mature, 99% last year, 100% average; 45% harvested, 85% last year and average. Pasture and range continue good to excellent, much improved in west central due to rains. Surface and subsoil moisture adequate to surplus. Feed grain, hay, forage supplies adequate. Spring calves being weaned and sold. Cattle grazing crop residue and wheat pasture. Only 1 day suitable for fieldwork.

KENTUCKY: Temperatures averaged 5 to 10° above normal. Rainfall amounts ranged from mostly a trace to 0.10 or 0.20 in.

Soil moisture 40% short, 59% adequate, 1% short. Fieldwork: 4.8 days favorable. Soybean harvest very active and 66% complete, 93% last year, 82% average. Corn harvest 89% complete, last year 94%, average 85%. High moisture content on late planted corn causing delay. Seeding of fall wheat 80% complete, 87% last year, average 82%. Ample tobacco ready for sale. Strip-ping 35% complete, ahead of last year's 25% and average of 28%. Burley marketing by bales expected to exceed 50%.

LOUISIANA: Rainfall generally between 0.20 and 0.70 in. Temperatures ranged from normal to 2° above normal.

Soil moisture short to adequate. Days suitable: 4.6. Cotton harvested 89%, 94% 1980, 85% average; condition fair. Soybean leaves turning 100%, 98% 1980, 100% average; leaves shedding 95%, 89% 1980, 98% average; harvested 72%, 84% 1980, 88% average; condition fair. Sugarcane harvested 35%, 27% 1980, 33% average; condition good. Sweetpotatoes harvested 98%, 94% 1980, 93% average. Vegetables rated fair. Pecans rated fair to good; harvested 27%, 27% 1980. Wheat seeded 37%, 67% 1980, 79% average; condition fair to good. Pasture rated fair. Livestock rated fair to good. Hay final cutting 99%, 99% 1980.

MARYLAND AND DELAWARE: Weather was warm, averaging 8° above normal. Rainfall general, averaging about 0.60 in.

Fields dried enough to continue fall harvest. Five days suitable for fieldwork. Maryland: Corn harvest neared end at 95% completed, last year 100%. Soybeans harvested at 55%, last year 70%. Tobacco stripped 10%. Quality and weight good. Wheat left to plant about 10%. Delaware: Corn acreage harvested virtually completed. Soybeans 50% harvested versus 70% in 1980. Wheat acreage

seeded at 85%. Widespread rains creating excellent growth of fall seeded grains. Topsoil moisture rated adequate across two-state area. Subsoil moisture short in southern Maryland and southern half Eastern Shore. Elsewhere adequate.

**MICHIGAN:** Temperatures ranged from 8 to 11° above normal over central and western Upper to 3 to 6° above normal over most of Lower Peninsula. It was unseasonably warm early in the week with temperatures reaching into the upper 60's to low 70's. There was a cooling trend at the end of the week. Precipitation was light and generally confined to midweek averaging less than 0.20 in.

Fall harvest in full swing as favorable weather prevailed for the second week. Drying winds and minimal precipitation reduced soil moisture. Some fields still too wet to enter. Statewide nearly 6 days suitable for fieldwork. Corn combining continued and harvested acreage advance to 55% complete, last year at 65% and 69% average. Soybean harvested increased to 80% complete, 90% last year and an average of 85%. Dry bean harvest pretty well wound up. Winter wheat planting virtually finished. Sugarbeet digging 95% complete, on schedule with last year and average. Tilled acreage increased to 25%.

**MINNESOTA:** Temperatures averaged 7° above normal southeast to 10° above normal west and north. Extremes: 69° Browns Valley, Hutchinson, North Mankato, and Preston, 19° at Pipestone. Precipitation averaged 0.20 in. below normal west to 0.35 in. below normal east. Measureable precipitation occurred only in southeast and widely scattered areas of the State. Greatest precipitation 0.14 in. at Red Wing. Most of State zero precipitation.

Another good week for harvest. Entire week warm and dry. Farmers in fields everyday. Low spots wet and hampering harvest. Harvest should be completed by mid-November in most areas. Topsoil moisture rated 5% short, 75% adequate, and 20% surplus. Harvested: field corn 72%, 1980 93%, normal 83%; soybeans 93%, 1980 99%, normal 97%; sunflowers 85%, 1980 96%, normal 93%; sugarbeets 99%, 1980 100%, normal 100%.

**MISSISSIPPI:** Showers and a few thundershowers occurred during the middle of the week. Temperatures were around 4° above normal. Extremes: 84 and 29°. Greatest 24 hour rainfall 0.79 in.

Soil moisture adequate to short. Four days were suitable for fieldwork. Cotton 92% harvested, 91% last year, 81% average. Soybeans 63% harvested, 66% last year, 70% average. Pecans 41% harvested; sweetpotatoes 91%. Winter wheat 55% planted, 66% last year, 75% average; condition fair to good. Pasture conditions fair. Livestock conditions fair to good.

**MISSOURI:** Temperatures ranged from 5 to 10° above normal. Widespread precipitation fell across the State, ranging from 0.50 to 3.00 in.

Fieldwork: 1.2 days suitable. Corn 75% harvested, 95% last year, 81% normally. Soybeans 71% harvested, 92% last year, 83% normally. Sorghum grain 68% harvested, 91% last year, 84% normally. Wheat 76% seeded, 91% last year, 82% normally. Plowing for spring crops 40% completed, last year 50%, normally 41%. Condition of winter wheat 1% poor, 31% fair, 65% good, 3% excellent. Pasture condition 2% poor, 27% fair, 65% good, 6% excellent. Topsoil moisture supply 1% short, 50% adequate, 49% surplus.

**MONTANA:** Very mild and dry week. Temperatures averaged from near normal west of Divide to 13° above normal along east slopes of Divide.

Highest 76° at Roundup, lowest 11° at Kalispell. No precipitation.

Topsoil moisture short to adequate. Subsoil moisture short eastern third short to adequate elsewhere. Sugarbeet harvest complete. Winter wheat emerged 100%. Condition fair to good.

**NEBRASKA:** Precipitation: beginning of week wet with rain. Heaviest amounts of 2.00 to 3.00 in. in southeast. Temperatures: 1 to 6° above normal.

Wet field conditions halted row crop harvesting during bulk of week in all but Panhandle and north central areas. Corn 60% harvested, 96% last year and 75% normal. Soybeans 93% combined, same as normal but 99% last year. Sorghum 65% complete, 99% last year and 85% normal. Winter wheat condition good. Pasture and range feed supplies mostly adequate to surplus. Subsoil short to mostly adequate. Days suitable for fieldwork: 2.8. Topsoil moisture mostly adequate to surplus.

**NEVADA:** Broad high pressure system covered State beginning of week. Temperatures near or slightly above normal. At midweek a low pressure system dropped temperatures to near to slightly below normal in most areas. Temperatures warmed again at weekend. Only traces of precipitation reported.

Livestock mostly good condition. Supplemental feeding required. Cotton only crop remaining to be harvested. All other harvest activity complete.

**NEW ENGLAND:** Temperatures: generally averaged 1 to 3° above normal. Precipitation: below normal except in extreme northern New England. Rainfall 6th, 0.50 in. recorded at a few Maine stations; Brunswick, Maine, highest with 1.02 in. One to four in. snow in parts of Vermont, extreme northern New Hampshire, and northwestern Maine.

**NEW JERSEY:** Temperatures were near normal, averaging: 48° north, 52° south and 53° coastal. Extremes: 28° at several locations and 73° at Flemington and Hammonton. Precipitation was below normal, averaging 0.46 in. north, 0.50 in. south and 0.32 in. coastal. Heaviest 24 hour total reported was: 0.88 in. at Freehold.

Light movement of hardy vegetables continues. Harvest of soybeans and corn for grain well advanced. Soil moisture adequate for germination and growth of grains and cover crops. Apples and sweetpotatoes moving from storages.

**NEW MEXICO:** Temperatures about 5° above normal. Rainfall was minimal for the week.

Soil moisture in adequate supply. Light to moderate freezes continue to occur. Farm activities included harvest of grain sorghum, corn, cotton, chile, peanuts, pecans, and sugarbeets. Cotton harvest continued as killing frosts helped to defoliate plants. Harvest of alfalfa complete in most areas. Grain sorghum harvest progressing actively with approximately 50% harvested. Wheat and barley in good condition with grazing of fields becoming more widespread. Corn harvest 80% complete. Peanuts about 40% threshed. Sweetpotato harvest complete with sugarbeet harvest about 70% complete. Pecans in good condition and limited harvest continuing. Ranges in good condition and winter feed supplies good. Livestock in good condition with shipments continuing.

**NEW YORK:** Temperatures close to normal, above normal 2nd and 5th. Sharply colder on 7th. Rain changed to light snow and flurries. Snow amounts ranged from a trace in the Hudson Valley

up to 4 in. in the Adirondacks. Precipitation totals ranged from 0.50 to 0.75 in.

**NORTH CAROLINA:** Temperatures: above normal most of the week to near normal by the weekend. Precipitation: near 0 in the southeast to 1.08 in. at Sanford in the Piedmont.

Fieldwork: 5.2 days suitable. Soil moisture: 4% very short, 47% short, 47% adequate, and 2% surplus. Harvest: cotton 75%, 1980 88%, 64% average; sorghum grain 88%, 1980 79%, 83% average; soybeans 43%, 1980 26%, 31% average; corn for grain 96%, 1980 96%, 95% average. Plantings: wheat 62%, 1980 68%, 64% average; oats 79%, 1980 80%; barley 78%, 1980 80%; rye 59%, 1980 54%. Major farm activities: harvesting soybeans and planting fall cover crops.

**NORTH DAKOTA:** Warm and dry weather prevailed. Temperatures averaged 7 to 11° above normal. Extremes ranged from 73° northwest on 3rd to 15° west central on 8th. No locations reported measurable precipitation.

Ideal harvest weather enabled many farmers to complete harvest. Also good progress on fall tillage, fertilizer application and other fall chores. Average of 6.9 days suitable for fieldwork. Sugarbeet lifting completed. Harvest of soybeans also nearly completed. Sunflower 88% harvested, ahead of both last year and two years ago. Most acreage remaining in northeast. Winter wheat and rye seedings in mostly fair to good condition. Some western areas poor. Soil moisture still short in western one-half and extreme southeast. Fifty-one percent of State short of topsoil moisture. Last year only 7% short. Percents combined with last year: sunflower 88, 77; corn grain 88, 91. Percent completed with last year and average: soybean combining 97, 100, 100; sugarbeet lifting 100, 100, 100.

**OHIO:** Week began mild, dry; periodic light precipitation slowed fieldwork by mid week. Occasional light rain last of week. Totals ranged from 0.07 in. at Ripley to 0.77 in. at Akron-Canton. Temperatures averaged 3 to 7° above normal. Lows below freezing toward weekend. Extreme readings, 25° at Toledo, 75° at several southern locations. Soil temperatures, 4 in. under bare ground, averaged low 50's north to mid 50's south.

Corn harvest still slowed by high moisture content of grain in fields. Average moisture content of corn being harvested--24%. Some June planted corn killed by frost chaffy or moldy. Field losses have been high in some late planted fields of soybeans as pods shattered before combines entered fields. Also, combining of short plants with pods close to ground increased harvesting loss. Wheat planting neared completion. Stands benefited from last week's rains, and stands were rated good. Corn for grain harvested 55%, 95% 1980, 75% average. Soybeans harvested 85%, 100% 1980, 95% average. Wheat planted 97%, 100% 1980, 100% average. Wheat emerged 75%, 95% 1980, 85% average. Sugarbeets harvested 70%, 99% 1980, 90% average. Days favorable: 5.5. Pasture condition fair. Soil moisture 9% short, 75% adequate, 16% surplus.

**OKLAHOMA:** Rainfall ranged from 0.17 in. southeast to 1.51 in. northeast and central. Temperatures averaged normal northeast and east central to 3° below normal north central and south central.

Cool, wet weather continued delay harvest fall crops. Majority wheat fields up-to-stand could support grazing but too wet. Cool temperatures delaying maturity cotton. Wheat

planted: 90% 1981; 90% 1980; 95% average. Wheat up-to-stand: 80% 1980; 65% 1981, 75% average. Sorghum harvested: 45% 1981, 70% 1980; 70% average. Cotton harvested: 10% 1981, 30% 1980, 15% average. Days suitable fieldwork: 1.9.

**OREGON:** Temperatures ranged from normal to 6° above normal. Rainfall on a few days only; amounts ranged up to 1.50 in. along coast; less than 0.20 in. elsewhere.

Soil moisture mostly adequate. Winter wheat condition good; 97% planted, 94% last year; 81% emerged, 79% 1981 crop. Wheat coming rapidly as open weather prevailed. Carrot, cauliflower, broccoli and other fall vegetables being harvested. Potato harvest about finished. Fruit harvest virtually complete. Walnut harvest continues; filberts mostly done. Cranberries complete. Pastures improving. Livestock mostly good.

**PENNSYLVANIA:** Mild weather beginning of week, turning colder latter part. First snow of the season was reported in most northern and central mountain counties. Amounts were a trace to 1.00 in. Temperatures averaged 2 to 4° above normal. Extremes: 65 and 23°. Precipitation ranged from around 0.25 in. in the southeast to 0.50 to 0.75 in. elsewhere.

Five days suitable for fieldwork. Soil moisture adequate. Activities: Plowing, baling corn fodder, spreading lime and fertilizer, and harvesting corn, soybeans, and hay crops. Soybeans 61% harvested, last year 88%. Corn for grain 67% harvested compared with 79% harvested last year and the average of 63%. Fall plowing virtually complete, about a week behind last year. Fourth cutting alfalfa 91% complete, last year virtually complete. Hay quality mostly fair. Feed from pasture average to below average.

**PUERTO RICO:** Island average rainfall 2.38 in. or 0.77 in. above normal. Highest weekly total 8.92 in. Highest 24 hour total 4.06 in. Temperatures averaged about 80° on Coasts and 75° Interior Divisions. Extremes: 92 and 57°.

**SOUTH CAROLINA:** Small amount of rain fell mid-week. Temperatures above normal, until weekend temperatures averaged below normal.

Soil moisture short to adequate. Five days available for fieldwork. Cotton 88% harvested, 90 a year ago, and 78 average. Quality and yields considerably above normal. Soybeans 99% shedding leaves, 92 last year, and 94 average; 92% mature, 57 last year, 76 average; 36% harvested, 17 a year ago, 27 average. Yields better than earlier expected. Winter grazing 75% planted, 89 last year, 87 average. Emergence 59%, 79 a year ago, 75 average. Pastures poor to fair condition. Fall vegetables conditions poor to fair; snap beans 81% harvested, 83 a year ago. Cucumbers 95% harvested, 94 last year. Condition of small grain crops improving.

**SOUTH DAKOTA:** Almost no precipitation. Temperatures 1 to 11° above normal. Extremes: 72 and 12°.

Topsoil moisture adequate in east central, southeast, south central and portions of central, northeast and north central. Small areas critically short in west central, north central and central. Remainder short. Six days suitable. Row crop harvest, fall tillage, fertilizing, moving cattle, weaning and marketing calves major activities. Livestock in good condition. Feed supplies adequate. Water supplies mostly short. Soybeans harvested 97%, 1980 100%, average 97%.

Corn harvested 85%, 1980 95%, average 84%. Sorghum harvested 91%, 1980 95%, average 90%. Sunflowers harvested 92%, 1980 95%, average 92%.

**TENNESSEE:** A series of weak low pressures moved through the State the first part of the week, bringing light and scattered rains. Temperatures averaged about 5° above normal.

Soil moisture adequate. Fieldwork: 4.3 days suitable. Cotton 68% picked, 1980 91%, average 66%. Soybeans harvested 51%, 1980 84%, average 65%. Corn harvested 85%, 1980 90%, average 70%. Burley tobacco 67% stripped, 1980 58%, average 56%. Pasture conditions fair. Cattle in good condition and some supplemental feeding continues. Fall plowing 81% complete, 1980 85%, average 78%. Wheat seeding 73% complete, 1980 85%, average 78%. Oats seeding 92% complete, 1980 and average 92%.

**TEXAS:** Weather: Fair skies first part week. Partly cloudy skies Panhandle as high pressure system settled Central Texas. On 7th, cold front West Texas triggered scattered showers, thunderstorms, spread eastward. Rainfall 0.25 in. below normal Trans-Pecos area to Valley, while normal elsewhere. Temperatures 4 to 5° below normal North Texas; 2 to 3° below normal remainder State.

**Range and livestock:** Winter grasses continued good growth, providing some grazing. Overall condition of ranges, pastures good. Growth of summer forage dormant. Grazing of small grains continues on limited basis, supplemental feeding has begun. Livestock condition remains good.

**Commercial vegetables:** Lower Rio Grande Valley, harvest of bell peppers, cucumbers, cabbage, tomatoes active. Lettuce stands continue to progress, affected by insects, disease. Harvest of early oranges, grapefruit continued active, fruit showing good size. Coastal Bend, fall vegetables make good growth. Small volume of cucumbers available. San Antonio-Winter Garden area, cabbage harvest in full swing, carrots, cauliflower getting underway. Spinach, onion planting active. East Texas activity light, sweetpotato harvest beginning to wrap up. Tomatoes, peppers continue to progress. Trans-Pecos region, harvest of chili peppers, lettuce, cabbage, green peppers active. At Pecos, harvest of bell peppers wrapping up. Planting of onions, carrots active. Pecan harvesting activity expanded. Yields good, quality also good.

**Crops:** Fieldwork good progress as soils dried under warm, open weather. Cotton defoliation progressing across High Plains, although most producers waiting for hard freeze. Warm, dry weather hastened maturity and boll opening; provided excellent harvesting conditions. Reported condition Statewide: 2% excellent; 62% good; 29% fair; 7% poor. Sorghum harvest good progress across Panhandle. Some areas Northern High Plains light showers, high humidity caused harvesting delays. Corn harvest virtually complete. Some Panhandle grain quality poor; producers turning cattle into few unharvested fields. Small grain fields make good progress. Pre-plant moisture excellent High, Low Plains; some fields too wet for planting Cross-Timbers. Oat stands excellent condition Blacklands; some fields being grazed. Armyworms problem South Central Texas; aerial spraying underway. Rust problems some fields Southern High Plains. Wheat condition: 23% fair; 66% good; 8% fair; 3% poor. Peanut harvest full swing Cross-Timbers. Scattered showers interrupt harvest; some areas heavy rains washed away recently dug peanuts. Edwards Plateau producers baling hay harvested fields. Wet fields, high humidity delayed soybean harvest along Coast. Although slowed by rain, sugarbeet harvest good progress High Plains. Cotton open bolls 86%, 94% 1980. Cotton harvested 29%, 49% 1980, 42% average. Sorghum harvested for

grain 90%, 96% 1980, 95% average. Wheat planted 85%, 85% 1980, 89% average. Wheat emerged 76%, 78% 1980. Corn for grain harvested 98%, 99% 1980, 99% average. Peanuts harvested 58%, 59% 1980, 82% average. Pecans harvested 23%, 15% 1980, 21% average. Soybeans harvested 48%, 64% 1980, 71% average. Sugarbeets harvested 46%, 25% 1980, 49% average. Sunflowers harvested 73%, 73% 1980, 85% average. Oats planted 82%, 85% 1980, 86% average.

**UTAH:** Scattered areas rain and snow latter part period. Accumulated amounts moisture generally light to moderate. Soil moisture conditions continue to improve most areas. Average temperatures ranged from 3° below normal to 6° above.

Fall planted small grains progressing well. Preparation of ground for next year continues. Corn for grain being harvested. Breeding of range sheep in progress. Turkey processing continues for holidays.

**VIRGINIA:** Unseasonably warm temperatures averaged from 2 to nearly 10° higher than normal. Daytime highs mainly in 70's; nighttime lows in 40's and 50's. Only significant precipitation was toward end of week with amounts ranging from trace to little more than 0.50 in.

There were 4.7 days suitable for fieldwork and farmers were active with harvest and small grain plantings. Topsoil moisture 27% short, 72% adequate and 1% surplus. Harvest of corn 87% complete, 86% 1980, 81% average. Soybeans 43% combined, 28% 1980, 35% average. Peanuts nearly 100% dug, 99% combined compared with 95% dug, 81% combined last year and 95% dug, 85% combined average. Grain sorghum harvest 46% complete, 36% 1980, 34% average. Cotton harvest began and 25% picked, about 10 days behind last year and average. Small grain planting and field preparation was active. Winter oats 94% seeded, ahead of 90% 1980, 87% average. Wheat 70% seeded, 62% 1980, 58% average. Barley planting 91% complete, 87% 1980, 82% average. Early small grain plantings look good. Pasture condition improved and the western mountain area now rates fair while the remainder rates good to excellent. Work with livestock active and the animals in good condition. Beef cattle and sheep still on pasture and receiving 80 to 90% of their roughage by grazing. Dairy cattle consuming only 33% of their roughage from pasture. Other activities include preparing burley tobacco for market, late apple harvest and clean-up chores and sunflower harvest.

**WASHINGTON:** West: Temperatures 2 to 4° above normal. Precipitation much below normal. Morning frosts. Carrot digging active. Potato, celery, cauliflower, silage corn harvests completed. Cattle coming off summer pastures.

East: Temperatures a few degrees above normal. Precipitation very limited. Cheat grass, crusting claiming much winter wheat acreage, re-seeding active. Potato, field corn harvests continue. Grape picking over. Soil moisture, hay, forage all adequate.

**WEST VIRGINIA:** Temperatures above normal; high 78°, low 27°. Precipitation near normal; largest amount was 1.05 in. Precipitation changed to snow over the mountains 6th, largest amount 3.50 in.

Soil moisture adequate. Days suitable for fieldwork: 4.5. Corn 69% harvested. Pastures fair condition.

**WISCONSIN:** Second consecutive week of dry, warm weather. Temperatures averaged 5° above normal.

High temperatures were mostly in the 60's while the lows were mostly in the 20's. The highest temperature, 71°, was recorded in Mondovi on the 5th. The State's cool spot was Lake Thompson which recorded 17° on the 7th. Generally northern areas experienced a warmer week than did the rest of the State. Rainfall was not heavy or widespread as most districts reported 0.10 in. rainfall.

Fieldwork: 7 days suitable. Combines and pickers made excellent progress during the week on the 1981 corn crop. The corn crop was 47% harvested, 73% 1980, 68% average. Yields very good although problems with corn dry down persist. Some farmers still harvesting corn silage although stalks at this point are very dry. Corn stalks being harvested for bedding. The soybean harvest made very rapid progress and was 70% complete, 87% 1980, 83% average. Ideal weather conditions prevailed for harvesting soybeans. Weeds in some

fields made combining difficult. Soybean yields variable, but overall quite good in fields where weed control was effective. Fall plowing continues, 38% complete, 37% 1980, 43% average. Fields drying out but some districts still reporting poor, wet field conditions. Topsoil moisture conditions were rated 66% adequate and 34% surplus.

WYOMING: Generally temperatures above normal. Highest temperature 75°, lowest 15°. Entire State very dry. Most stations no precipitation at all. Most 0.18 in.

Warm dry weather allowed farmers to make progress toward wrap-up of harvest. Topsoil moisture short roughly two-thirds of State. Snowpack building higher elevations. Livestock conditions generally good; stock water short some areas. Winter grazing generally good. Hay supplies adequate nearly all areas.

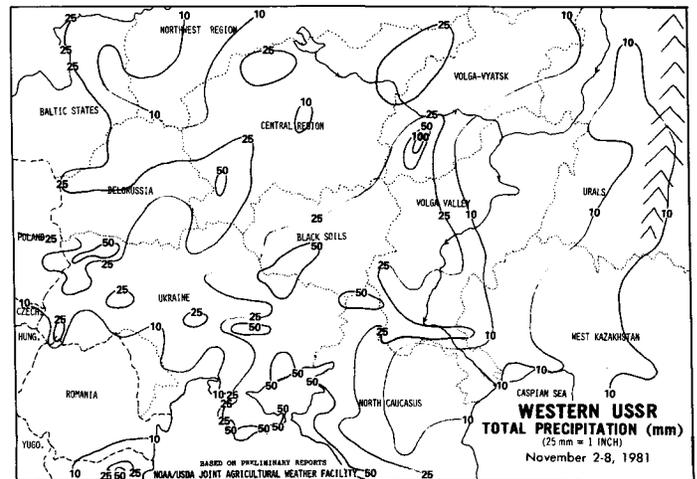
## International Weather and Crop Summary

HIGHLIGHTS  
November 2-8, 1981

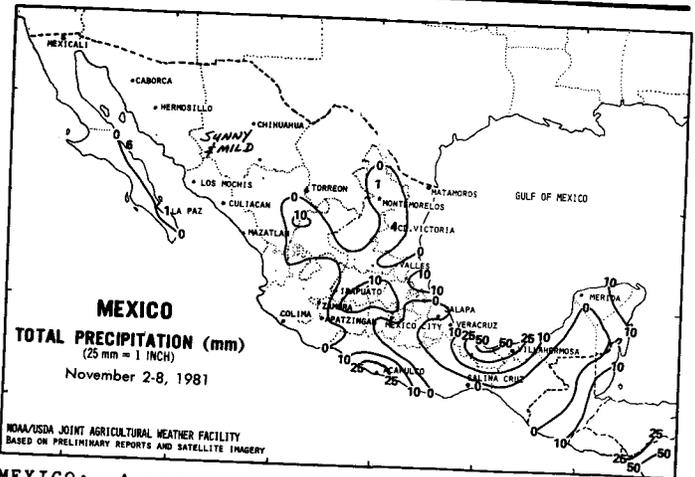
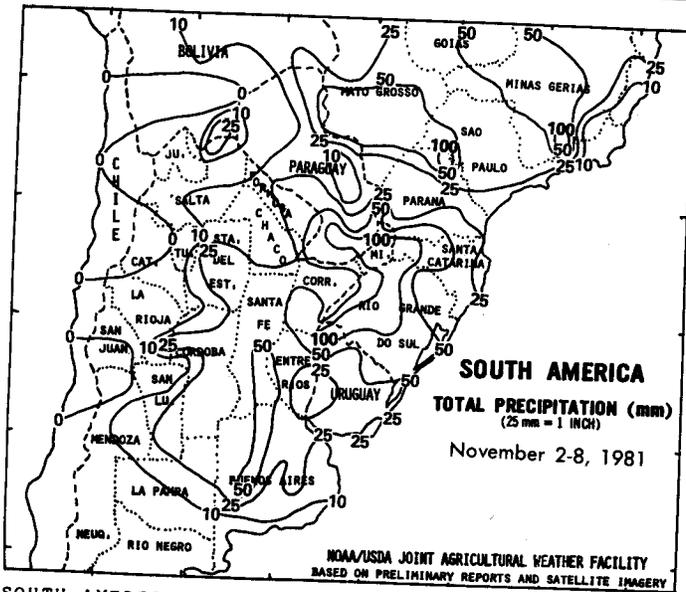
- USSR:** Beneficial precipitation in winter grain areas, but lower temperatures halt growth.
- EUROPE:** Improved harvest weather in the west; still too dry in southern Spain.
- NORTHWESTERN AFRICA:** No significant rainfall yet in Morocco and western Algeria.
- SOUTH AFRICA:** Unseasonably dry weather over corn areas delays planting.
- SOUTH ASIA:** Extremely beneficial rainfall in India's winter grain belt.
- EASTERN ASIA:** Unfavorably wet in the Yangtze Valley and along China's southern coast; still too dry in Hebei.
- SOUTHEAST ASIA:** Widespread post-monsoon showers continue.
- AUSTRALIA:** Mostly dry weather aided harvesting in Queensland and grain filling elsewhere.
- SOUTH AMERICA:** Beneficial rains in Argentina and Brazil for plantings.
- MEXICO:** Rains decrease seasonably, favoring crop harvesting.



**EUROPE:** Persistent high pressure in the southwest kept storms to the northern and eastern parts of the region. Harvest weather improved over nearly all of Western Europe. Generous precipitation continued in Poland, with some light snow accumulation at higher elevations. Generally light precipitation in the southeastern countries maintained favorable conditions for winter grains. Mostly rainless weather in the Iberian Peninsula worsened conditions for winter grains. Prospects have become quite bad in southern Spain and Portugal, for sowing cannot be put off much longer. Temperatures in this area remained above normal, with near-normal readings reported in most other countries.

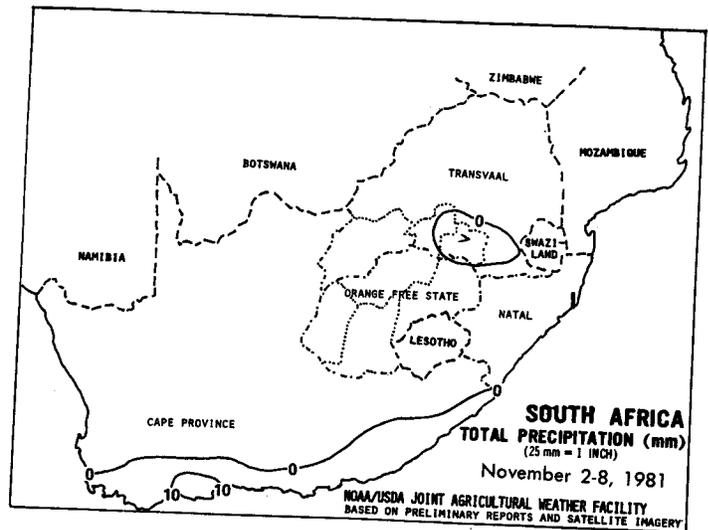
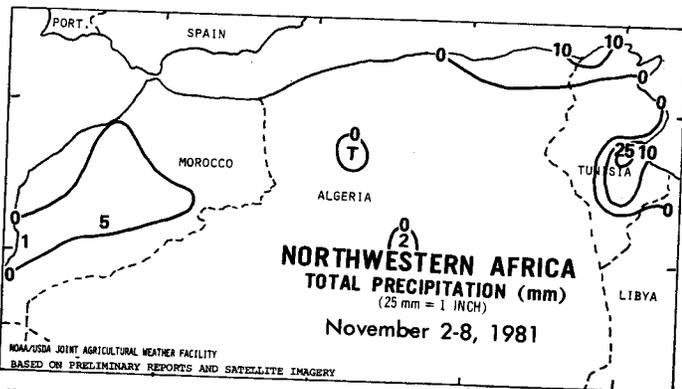


**USSR:** Cold and wet weather spread over much of European USSR. Heaviest precipitation occurred in a broad band extending from the eastern Ukraine and western North Caucasus northward into the Volga-Vyatsk Region. The moisture greatly helped replenish subsoil moisture, although some eastern parts of the North Caucasus will need above-normal precipitation before the growing season advances very far next spring. Temperatures dropping to near normal in most winter grain areas brought growth to an abrupt halt in all but the southernmost areas. Above-normal temperatures persisting in the North Caucasus allowed winter grain growth to continue. Cotton-growing areas had warm and dry weather, and harvesting should be nearing completion.



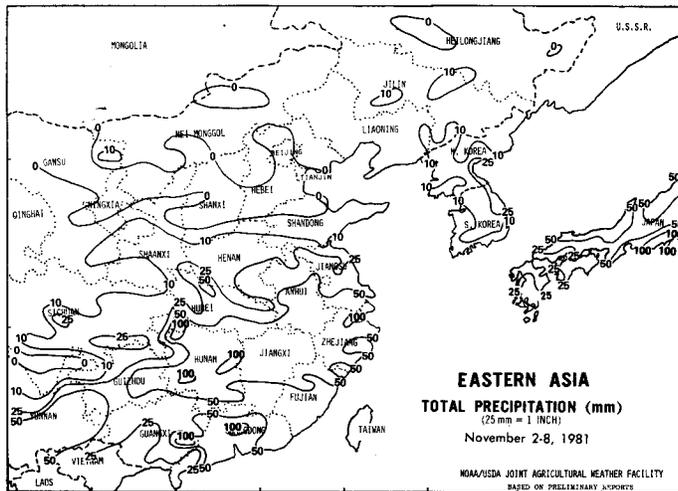
**SOUTH AMERICA:** Widespread rains fell again over much of Argentina's major crop areas. Only the extreme southern wheat area of Buenos Aires and La Pampa received less than 10 mm of weekly rainfall. The abundant moisture of the past 2 weeks has substantially improved topsoil conditions for sowing of corn, sorghum, and sunflowers throughout the region. Dry weather late in the week permitted the resumption of coarse grain planting and early wheat harvesting. In Brazil, significant rainfall also occurred from the coffee areas of the north to southern wheat areas. Soil moisture is adequate for soybean planting which is on schedule in all areas. Heaviest weekly rainfall occurred over the western half of Rio Grande do Sul, likely causing temporary interruptions in the wheat harvest.

**MEXICO:** A seasonal decrease in rains favored crop harvesting and field activities over most of the principal agricultural areas. A few showers dotted the southern Plateau but caused only limited interference in corn harvesting. Mild, sunny conditions over the western third of the country aided development of tomatoes and cucumbers, planting of winter wheat, and salvage operations following the damaging rains and winds from earlier tropical weather systems.

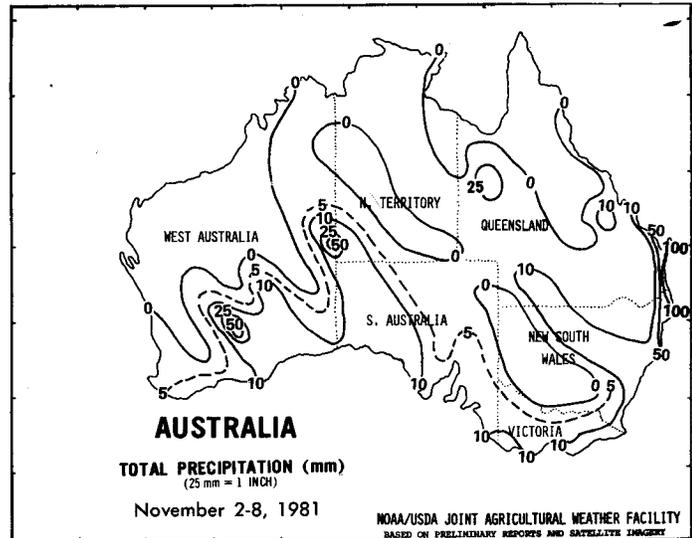


**NORTHWESTERN AFRICA:** Light rain occurred in northern coastal areas of Tunisia and eastern Algeria late in the week. Conditions there remained generally favorable for winter grains. Mostly warm and dry weather persisted in Morocco and western Algeria. Some light rainfall in Morocco was insufficient to allow winter grain sowing to begin. Although concern about the onset of autumn rains must be mounting in these western areas, substantial time remains for sowing to be successfully accomplished.

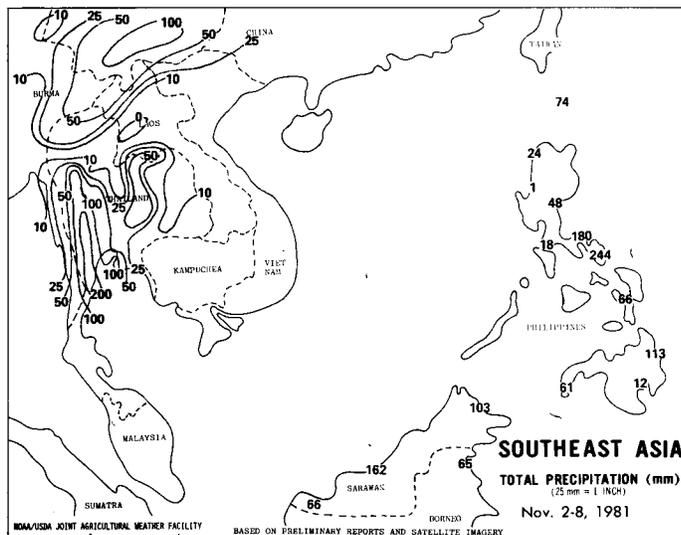
**SOUTH AFRICA:** Dry weather continued over the major corn producing areas of the Orange Free State and western Transvaal. According to the normal crop calendar, corn planting should be underway; however, the delay in the summer rainy season has slowed planting due to inadequate topsoil moisture necessary for proper germination and early growth. Early establishment of the seedlings is extremely important for the production of a good crop. Temperatures, which were well above normal this week, have further reduced the limited topsoil moisture supplies.



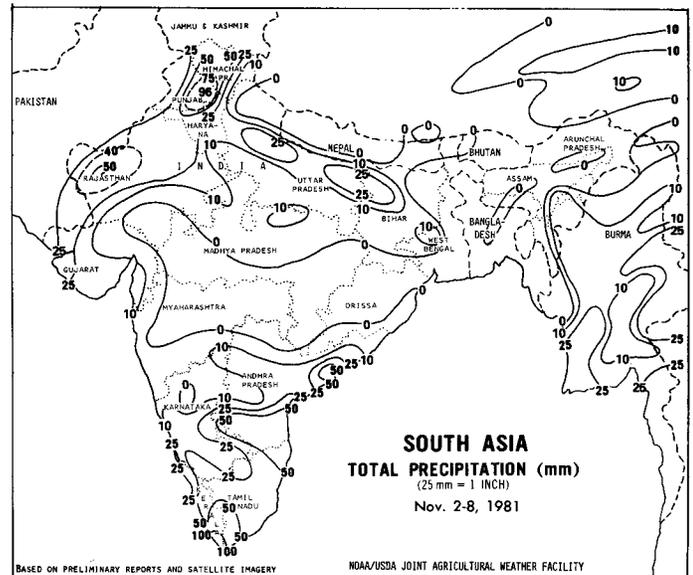
**EASTERN ASIA:** Precipitation remained much above normal in the southern two-thirds of the winter grain belt. The moisture benefited winter grains in most areas, but some waterlogging may have occurred in minor production areas near the Yangtze River. The wetness also disrupted late harvest activity. Northern winter grain areas in Hebei and surrounding areas remained dry, and prospects for unirrigated fields dimmed, for it is probably too late to plant. Double-crop rice areas had wet weather throughout the week; harvest weather this year has been generally unfavorable and decreased quality can be expected. In South Korea, all areas but the western coast received normal precipitation or greater, maintaining favorable moisture conditions for winter grain development. However, temperatures dipped below normal, halting growth in the northern part of the country.



**AUSTRALIA:** Only light scattered showers fell on grain areas of southern Queensland and northern New South Wales, allowing harvest activity to progress at a normal pace. Beneficial, light rain fell on grain areas of central New South Wales, Victoria, and South Australia. In West Australia, above-normal precipitation fell outside the grain area while conditions remained mostly dry in the major wheat area. The generally dry weather during the past several weeks has likely hastened crop growth and forced the crop to rely on stored soil moisture reserves during its development. Temperatures this past week were below-normal over grain areas of West Australia and near normal elsewhere.



**SOUTHEAST ASIA:** Widespread showers throughout Thailand and most bordering regions produced some locally heavy rainfall. Torrential rains--with weekly totals in excess of 200 mm--inundated a narrow band to the west of Bangkok bordering southeast Burma. Much of the Central Plains benefited from weekly rainfall ranging from 40 to 70 mm. Post-monsoon shower activity was less intense in northern and eastern Thailand but weekly rainfall amounts of 5 to 25 mm were prevalent in these areas. Significant rainfall associated with monsoon activity occurred in peninsular Thailand, Malaysia, Indonesia, and the Philippines.



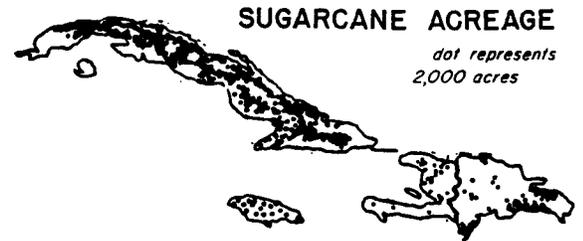
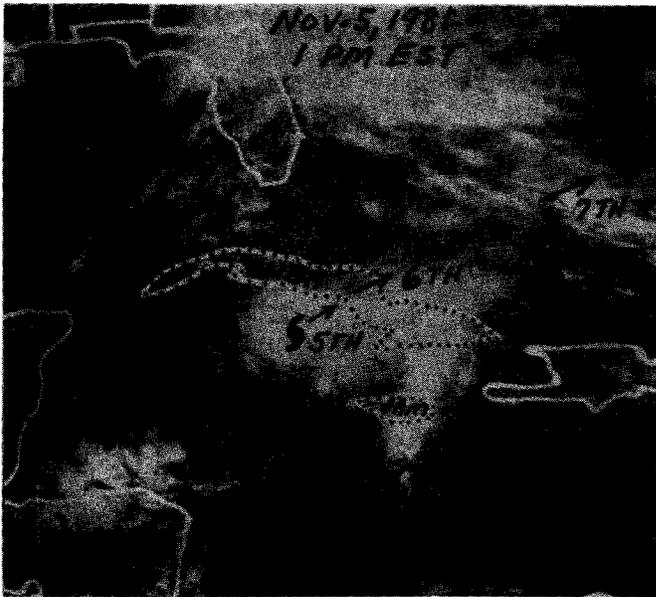
**SOUTH ASIA:** The remnants of a tropical storm which hit India's Gujarat State late the previous week spread beneficial rainfall northward into dry winter grain areas. Abnormally heavy rains of 20-40 mm in southwestern parts of the winter grain belt dramatically improved sowing prospects. Still-greater amounts closer to the Himalayas further improved growing conditions, following generous rains at the end of September. Beneficial rains also covered winter grain areas in the Ganges Basin as far east as Bihar State. The southern peninsula continued to receive abundant rainfall as another tropical weather system moved through the area.



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## HURRICANE KATRINA WEAKENS CROSSING CUBAN SUGAR FIELDS



"Katrina", a late-season hurricane that formed in the northwestern Caribbean on November 4, weakened considerably as it crossed Cuba on the night of November 5. Highest winds were estimated at 75 MPH as it approached Cuba's south central coast, but diminished to near 50 MPH as it emerged from the north coast. Cuban rainfall reports are sparse, but satellite photos indicate potentially locally heavy amounts over the eastern half. The winds may have broken and blown down some sugar cane along the south central coast; this would hamper harvesting that generally begins in November or December. Some of the rains could be beneficial in improving soil moisture.

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