

# WEEKLY WEATHER AND CROP BULLETIN

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

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

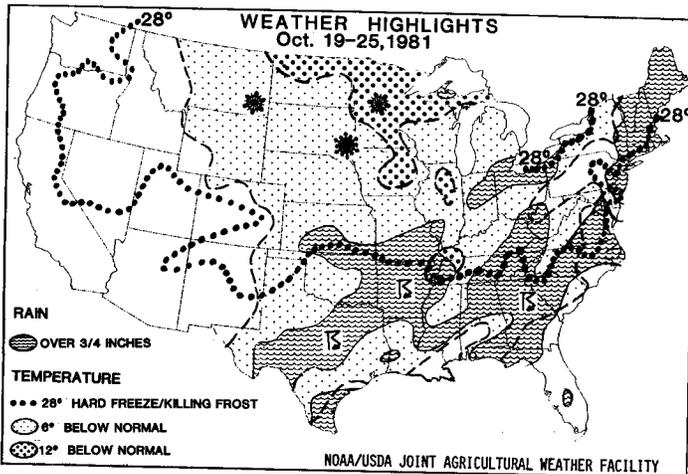
Volume 68, No. 43

WASHINGTON, D.C.

Oct. 27, 1981

## National Weather Summary

OCTOBER 19-25, 1981



**HIGHLIGHTS:** Very cold weather enveloped nearly all the area east of the Rockies. Average temperatures for the week were 6 to 12° colder than normal. A hard freeze (28°F or colder) struck all the Corn Belt and southward through Kansas and Tennessee. Some precipitation fell throughout eastern United States but the heavier showers covered the area from west central Texas to New England and eastward. Thunderstorms dominated the southern States and dumped up to 2 inches on some of the drier parts of Georgia.

**MONDAY...**Most of the Nation was without rain. A few showers were reported from the central Appalachians through the Northeast and some snow fell near the eastern and northern Great Lakes. Some light showers dotted the northern Plains near the Canadian border. Very cold air pushed into the eastern northern Plains and brought a hard freeze to Minnesota, Wisconsin, and northern Iowa.

**TUESDAY...**The light showers in the northern Plains spread southward to Nebraska and the northern Mississippi River Valley. Light snow fell throughout the northern Rockies. The rapidly moving cold air mass spread freezing temperatures southward, east of the Appalachians, and brought record low temperatures all the way to northern Florida. Freezing weather reached into South Carolina.

**WEDNESDAY...**Weather systems were moving rapidly and another cold front moved from the northern Plains to the eastern Great Lakes and southwestward to western Texas. The air was even colder behind this new front and some of the coldest temperatures of the season were reported in the western portion of the Plains. There were showers and a few thunderstorms

through Texas and the southern Rockies. Showers extended along and ahead of the front through the Great Lakes. Very light snow fell through parts of the Rockies and across the northern Plains.

**THURSDAY...**The cold front kicked up extensive shower activity from central and eastern Texas through the eastern Lakes and northeast and along the Appalachians and the lower Mississippi Valley. Some heavy thunderstorms swirled through eastern Texas. A hard freeze covered the northern Plains and northern Mississippi Valley as far south as Nebraska.

**FRIDAY...**Northerly winds swept the hard freeze--28°F or lower--throughout the northern Plains and Mississippi River Valley and as far south as northern Missouri, Illinois, and most of Kansas. Freezing temperatures reached the Texas Panhandle, rain and showers associated with the cold front covered the Northeast, the Appalachians, and east coast to Georgia, and along the gulf coast of the Florida Panhandle. Light snow showers covered the northern Plains from the Rockies to the Great Lakes.

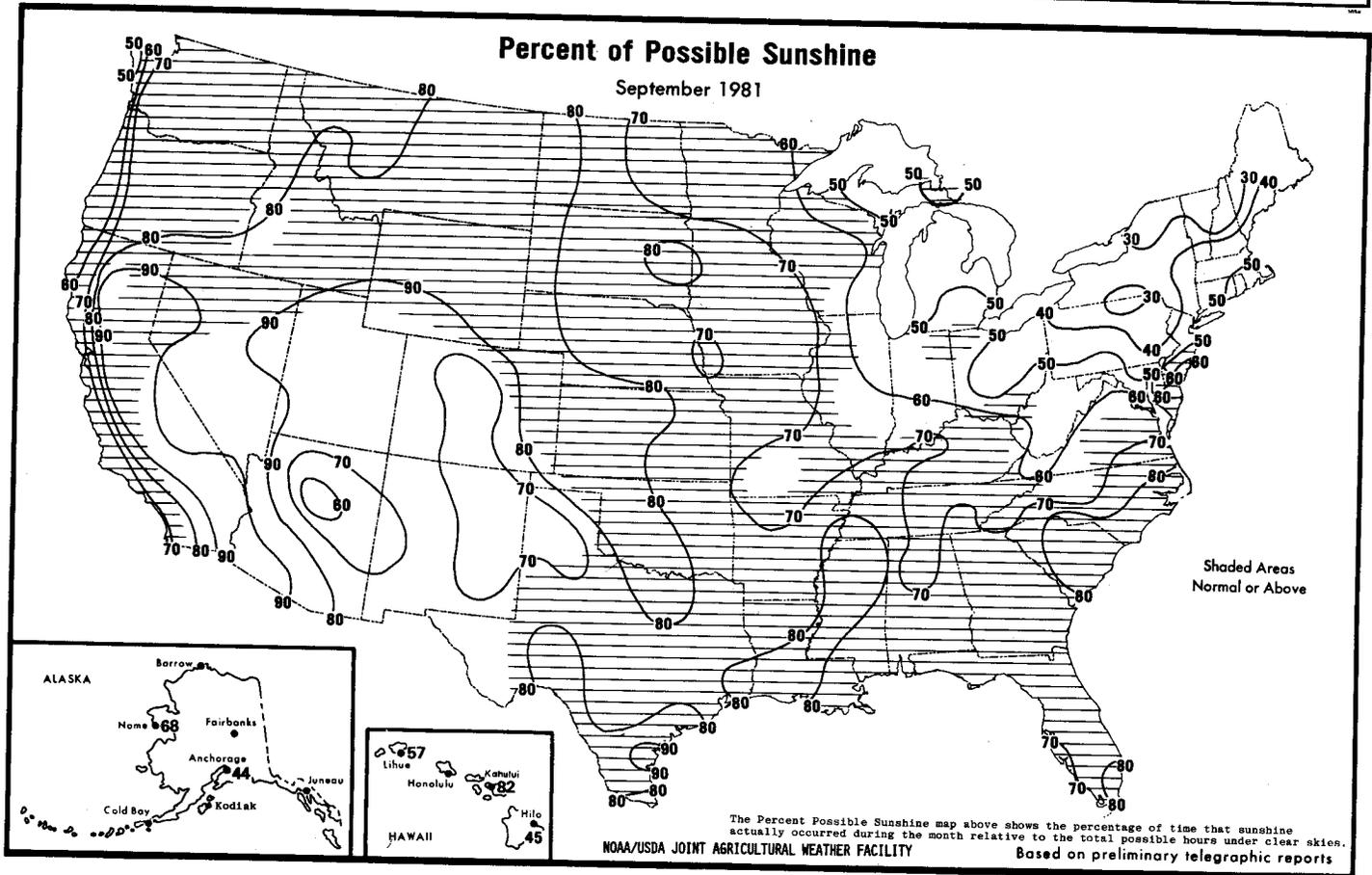
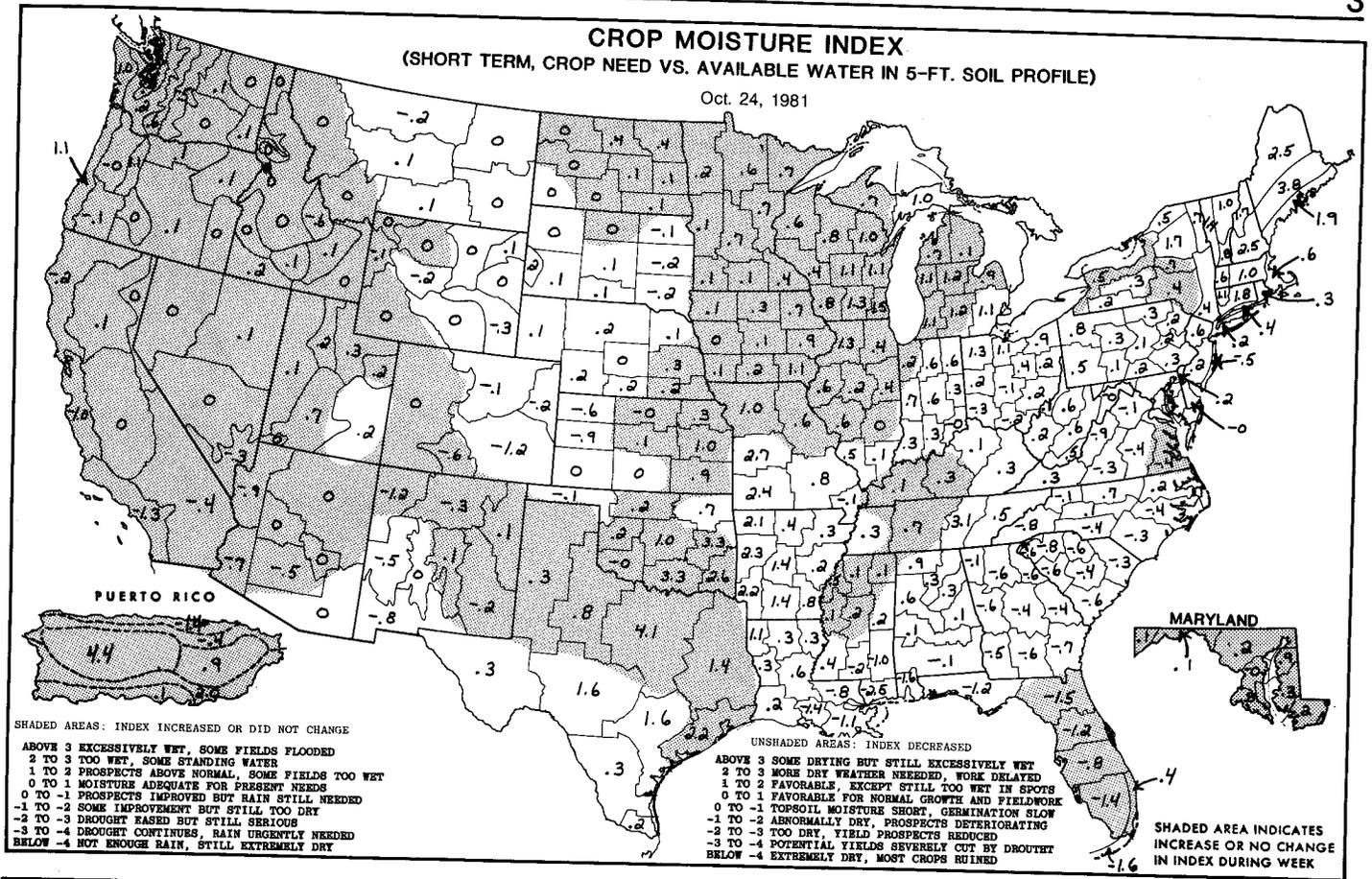
**SATURDAY...**The cold polar air settled over the midwest during the morning and record low temperatures were numerous. The hard freeze extended into Tennessee and northern Arkansas and should terminate growth in most of the corn and soybeans, facilitating harvest. Rain and showers covered the Southeast to northern Florida and westward through Louisiana to the Texas gulf coast. A combination of rain and snow fell through the central and northern Plains. Snow fell through the Rockies.

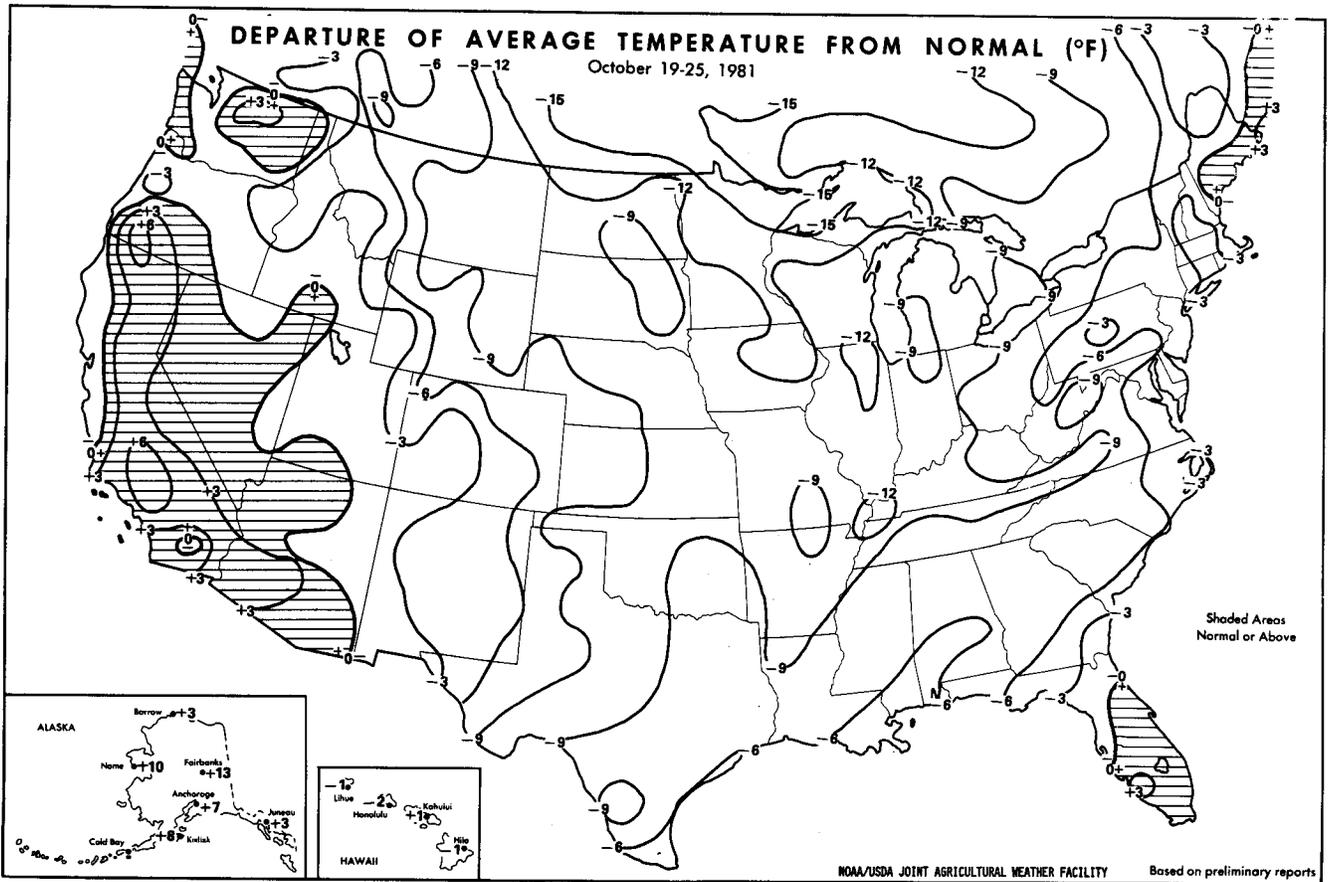
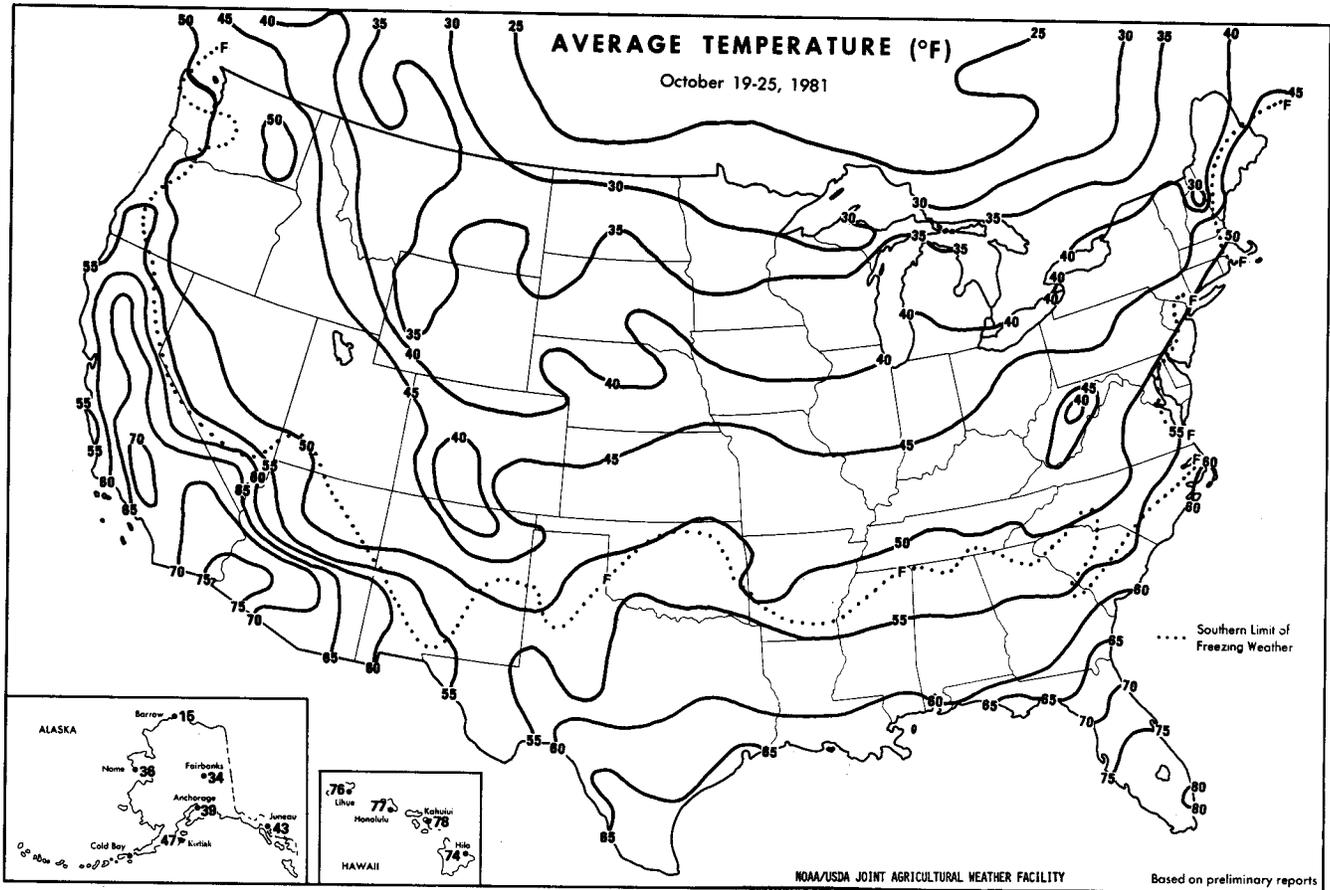
**SUNDAY...**Rain or showers were scattered from eastern Kansas and central Oklahoma through the lower Mississippi and Tennessee Valleys to the southern and mid-Atlantic coasts. Thunderstorms dominated the South. Snow showers were scattered across the upper Great Lakes, Minnesota, and the Dakotas. Temperatures moderated somewhat, but cold weather gripped much of the Nation.

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Weather Data for the Week Ending Oct. 25, 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	67	42	80	34	54	-7	1.0	-.4	.8	4.8	81	33.4	76	86	44	0	0	2	1	
AL MOBILE	72	52	83	42	62	-5	.6	.1	.6	5.0	55	49.5	85	92	52	0	0	1	1	
AL MONTGOMERY	71	48	87	37	59	-14	.4	0	.2	5.0	79	39.1	96	94	51	0	0	3	0	
AK ANCHORAGE	43	35	51	24	39	7	1.2	.9	.6	5.5	145	18.4	148	92	69	0	0	0	0	
AK BARROW	21	10	29	-3	15	3	T	-.1	T	.8	80	---	---	100	85	0	0	3	5	
AK FAIRBANKS	40	28	49	15	34	13	.3	-.2	.2	1.6	89	8.7	---	---	86	63	0	0	0	
AK JUNEAU	46	40	50	36	43	3	1.2	-.5	.4	15.7	117	43.1	100	93	78	0	0	4	0	
AK KODIAK	52	42	59	27	47	8	1.8	-.4	1.2	10.3	90	55.3	122	89	65	0	0	5	0	
AK NOME	39	32	43	20	36	10	1.2	.9	.6	2.6	70	14.6	106	86	67	0	0	1	1	
AZ FLAGSTAFF	62	31	66	26	47	2	0	-.3	0	3.1	100	19.5	122	79	24	0	0	6	0	
AZ PHOENIX	88	60	90	56	74	4	0	-.1	0	1.5	150	5.9	107	42	16	1	0	0	0	
AZ TUCSON	81	55	86	49	68	1	T	-.1	T	1.1	55	13.3	141	51	16	0	0	0	0	
AZ WINSLOW	71	36	74	31	53	-1	0	-.1	0	2.0	133	8.2	114	---	---	0	0	0	0	
AZ YUMA	93	59	95	57	76	3	0	-.1	0	0	0	1.4	---	---	0	0	1	0	0	
AR FORT SMITH	64	39	78	30	52	-9	1.2	-.4	.8	7.4	117	36.8	103	92	43	0	2	2	1	
CA LITTLE ROCK	62	40	77	30	51	-10	2.3	1.6	1.2	7.8	126	39.7	101	85	54	0	1	2	2	
CA BAKERSFIELD	85	56	89	55	71	6	0	-.1	0	.7	233	5.1	119	56	23	0	0	0	0	
CA EUREKA	56	48	58	45	52	-2	T	-.9	T	3.0	100	22.0	82	99	94	0	0	0	0	
CA FRESNO	83	47	85	46	65	3	0	-.1	0	0	0	7.5	104	81	28	0	0	0	0	
CA LOS ANGELES	74	59	93	55	67	2	0	-.1	0	.4	200	7.0	86	83	50	1	0	0	0	
CA RED BLUFF	79	50	85	47	65	2	0	-.3	0	2.2	183	18.5	123	83	35	0	0	0	0	
CA SAN DIEGO	73	60	77	55	66	1	0	-.1	0	0	0	8.5	131	93	59	0	0	0	0	
CA SAN FRANCISCO	64	49	69	43	56	-4	T	-.3	T	.8	80	13.0	98	93	65	0	0	0	0	
CA STOCKTON	81	46	85	42	64	-2	0	-.2	0	0	0	11.8	84	83	34	0	0	3	0	
CO DENVER	56	31	75	20	44	-6	.3	-.1	-.1	1.1	50	9.5	99	90	32	0	0	0	0	
CO GRAND JUNCTION	60	35	64	30	48	-5	0	-.2	0	2.2	138	7.3	112	79	30	0	1	0	0	
CO PUEBLO	60	35	81	30	48	-4	.1	-.2	.1	.7	47	7.1	61	73	35	0	1	1	0	
CT BRIDGEPORT	59	41	65	34	50	-5	1.0	-.4	.8	7.5	144	25.3	82	83	53	0	0	4	1	
CT HARTFORD	61	37	71	29	49	-2	1.5	-.8	1.4	8.8	147	27.8	81	78	38	0	3	4	1	
DC WASHINGTON	65	44	75	37	54	-3	.9	-.3	.6	4.5	83	27.1	84	83	46	0	0	2	1	
FL APALACHICOLA	75	56	79	47	65	-4	-.2	-.2	.2	2.7	23	32.5	63	83	55	0	0	1	0	
FL DAYTONA BEACH	81	64	84	59	73	1	.1	1.0	.1	7.9	65	33.2	73	90	57	0	0	2	0	
FL FORT MYERS	88	68	90	61	78	3	T	-.7	T	7.2	56	50.8	100	98	57	2	0	0	0	
FL JACKSONVILLE	79	54	88	40	67	-2	.5	-.3	.5	2.7	23	27.6	56	98	55	0	0	1	0	
FL KEY WEST	86	76	88	73	81	2	.6	-.5	.4	7.5	61	22.8	65	96	71	0	0	1	1	
FL MIAMI	85	73	86	67	79	2	.4	-.3	.3	15.7	98	48.0	88	87	56	0	0	3	0	
FL ORLANDO	85	62	90	53	74	1	1.1	-.6	.8	9.0	82	39.7	83	96	45	1	0	1	0	
FL TALLAHASSEE	76	50	84	35	63	-5	1.1	-.6	.6	6.5	70	43.1	80	99	54	0	0	3	1	
FL TAMPA	82	62	86	52	72	-1	.1	-.4	.1	6.3	72	34.4	76	95	51	0	0	1	0	
FL WEST PALM BEACH	84	71	85	64	77	-2	.2	1.6	.1	10.9	62	42.7	77	89	62	0	0	2	0	
GA ATLANTA	64	42	78	37	53	-7	1.2	-.6	1.0	8.2	152	33.9	84	87	52	0	0	2	0	
GA AUGUSTA	67	41	79	30	54	-8	1.1	-.7	.8	2.9	56	34.0	92	99	48	0	1	2	1	
GA MACON	70	45	83	35	57	-6	2.2	1.7	1.7	6.0	115	38.8	103	93	49	0	0	3	1	
GA SAVANNAH	73	50	84	40	61	-4	-.2	-.3	.2	3.8	46	34.9	77	93	49	0	0	3	1	
HI HILO	81	67	83	64	74	-1	1.4	1.3	.5	18.8	115	---	---	92	65	0	0	5	0	
HI HONOLULU	85	69	86	64	77	-2	.1	-.3	.1	.6	35	6.2	39	87	55	0	0	2	0	
HI KAHULUI	85	70	88	64	78	-1	.2	-.1	.2	1.4	117	---	---	76	51	0	0	1	0	
HI LIHUE	85	67	86	62	76	-1	.6	-.4	.4	3.5	71	---	---	93	58	0	0	2	0	
ID BOISE	63	33	71	27	48	-2	0	-.2	0	1.0	100	10.0	110	74	28	0	3	0	0	
ID LEWISTON	57	35	68	31	46	-4	0	-.3	0	2.2	129	11.1	104	81	43	0	3	0	0	
ID POCATELLO	58	29	67	24	44	-3	T	-.2	T	1.4	140	10.3	124	82	28	0	5	0	0	
IL CAIRO	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
IL CHICAGO	50	31	71	17	40	-11	.2	-.3	-.2	5.2	106	35.6	129	87	48	0	4	1	0	
IL MOLINE	50	32	69	23	41	-11	.1	-.4	.1	10.1	163	33.3	104	81	46	0	3	2	0	
IL PEORIA	54	34	73	22	44	-9	T	-.5	T	3.2	57	36.5	119	81	47	0	3	0	0	
IL ROCKFORD	48	30	68	19	39	-11	.1	-.5	.1	8.3	126	32.6	101	82	46	0	3	0	0	
IL SPRINGFIELD	55	34	76	23	44	-10	.4	-.3	.4	3.7	62	43.7	143	88	45	0	4	1	0	
IN EVANSVILLE	59	36	73	23	47	-8	.3	-.2	.3	3.6	73	37.0	106	74	40	0	3	1	0	
IN FORT WAYNE	50	33	67	23	42	-9	1.0	-.4	1.0	6.4	131	33.0	109	82	53	0	3	1	0	
IN INDIANAPOLIS	55	33	72	20	44	-9	.5	0	.4	3.9	78	32.7	101	78	43	0	3	2	0	
IN SOUTH BEND	50	35	69	23	43	-8	T	-.7	T	5.1	89	34.1	111	82	49	0	2	1	0	
IA BURLINGTON	51	35	70	23	43	-10	.1	-.5	.1	7.6	119	40.6	131	81	44	0	4	1	0	
IA DES MOINES	51	32	66	22	41	-11	T	-.4	T	3.6	71	27.0	95	77	40	0	5	1	0	
IA DUBUQUE	46	30	64	20	38	-11	.2	-.6	.2	8.5	120	---	---	86	47	0	4	1	0	
IA SIOUX CITY	51	28	72	20	40	-11	.2	-.1	.2	3.9	91	18.2	76	93	46	0	5	2	0	
KS CONCORDIA	58	35	77	23	46	-8	.2	-.1	.2	3.4	69	30.2	117	83	39	0	2	2	0	
KS DODGE CITY	60	37	82	27	48	-7	1.1	-.7	1.0	4.6	139	22.2	114	80	35	0	1	2	1	
KS GOODLAND	55	31	75	22	43	-7	.1	-.1	.1	.5	21	20.2	128	79	35	0	4	1	0	
KS TOPEKA	58	37	76	28	47	-8	.2	-.4	.2	6.2	107	35.9	114	78	43	0	2	1	0	
KS WICHITA	57	38	70	30	47	-10	1.1	-.6	1.1	6.1	100	23.4	83	87	47	0	1	1	0	
KY LEXINGTON	59	35	70	24	47	-8	.6	-.1	.5	3.3	75	30.2	81	83	40	0	2	2	0	
KY LOUISVILLE	60	35	72	24	48	-8	.3	-.2	.2	4.3	86	28.9	80	82	37	0	2	3	0	
LA BATON ROUGE	72	49	83	39	60	-6	.4	-.2	.3	5.0	82	36.4	81	87	49	0	0	2	0	

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

+100 = NORMAL & ACTUAL NEAR THE SAME

Weather Data for the Week Ending Oct. 25, 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	72	50	82	45	61	-7	.6	-.1	.4	6.3	89	46.0	102	90	50	0	0	2	0
NEW ORLEANS	74	54	86	46	64	-4	.9	-.5	.7	6.9	90	48.2	102	94	51	0	0	2	1
SHREVEPORT	68	45	78	36	57	-9	.5	-.2	.3	8.8	160	38.8	107	95	50	0	0	4	0
ME CARIBOU	47	32	56	25	39	-2	2.8	2.0	1.4	7.2	116	39.4	135	95	62	0	4	5	3
PORTLAND	57	37	68	27	47	0	1.1	.3	.5	9.7	167	38.0	120	86	48	0	3	3	1
MD BALTIMORE	61	36	74	28	49	-6	.7	-.1	.5	4.9	91	26.7	80	85	43	0	1	2	1
MA BOSTON	63	44	74	38	53	0	.8	-.1	.5	5.0	91	23.6	72	86	41	0	0	2	0
CHATHAM	58	46	63	38	52	-1	.7	-.1	.4	6.8	—	33.0	—	90	62	0	0	3	0
NI ALPENA	42	28	53	19	35	-10	.1	-.3	.1	5.4	110	19.1	82	92	55	0	5	2	0
DETROIT	49	31	66	22	40	-11	1.0	.5	.7	7.8	181	28.3	106	87	54	0	3	3	1
FLINT	45	30	63	22	38	-11	.4	-.1	.4	10.1	224	31.1	122	88	55	0	4	2	0
GRAND RAPIDS	48	34	62	28	41	-9	.6	0	.6	12.2	218	41.4	152	78	54	0	3	1	0
HOUGHTON LAKE	43	30	55	24	36	-9	.3	-.3	.2	4.5	80	27.2	112	92	60	0	5	3	1
LANSING	47	31	64	23	39	-10	.4	-.2	.4	9.2	200	29.0	113	94	59	0	4	1	0
MARQUETTE	36	23	40	15	29	-13	.3	-.3	.1	6.7	103	28.2	94	96	59	0	7	4	0
MUSKEGON	47	36	56	32	41	-8	.5	-.1	.4	8.7	158	28.4	110	82	56	0	2	2	0
SAULT STE. MARIE	36	24	42	16	30	-14	.6	0	.2	6.7	108	24.3	94	99	67	0	7	5	0
MN DULUTH	36	21	53	12	28	-15	.3	-.2	.1	6.0	115	26.3	99	90	61	0	7	4	0
INT'L FALLS	35	17	57	10	26	-15	.3	-.1	.1	7.8	156	20.8	89	93	61	0	7	4	0
MINNEAPOLIS	45	26	66	20	36	-12	-.1	-.3	.1	4.2	95	25.0	105	83	46	0	6	1	0
ROCHESTER	44	25	60	17	34	-13	.1	-.3	.1	5.1	102	31.5	124	80	44	0	6	2	0
SAINT CLOUD	41	23	63	16	32	-13	.1	-.2	.1	5.7	136	23.9	97	92	60	0	6	3	0
MS JACKSON	69	45	80	34	57	-7	3.4	2.9	2.8	8.7	178	40.1	100	93	41	0	0	2	2
MERIDIAN	71	43	84	33	57	-6	1.8	1.3	1.6	4.6	90	34.9	83	87	39	0	0	2	1
MO COLUMBIA	55	35	75	23	45	-11	.4	-.3	.4	4.3	57	43.2	127	87	46	0	2	2	0
KANSAS CITY	55	37	74	26	46	-9	.2	-.5	.2	6.2	86	38.2	114	71	40	0	2	1	0
SAINT LOUIS	57	37	77	25	47	-10	1.0	.4	1.0	6.1	120	40.8	133	90	44	0	2	3	1
SPRINGFIELD	58	36	75	24	47	-9	1.8	1.0	1.2	7.4	101	38.2	110	85	43	0	2	3	1
MT BILLINGS	48	30	73	19	39	-8	.5	-.3	.3	1.4	61	15.1	119	90	52	0	6	3	0
GLASGOW	44	24	60	12	34	-10	T	-.1	T	1.4	108	8.1	77	80	45	0	6	1	0
GREAT FALLS	49	26	70	14	37	-9	.3	-.1	.2	1.5	83	13.6	100	84	45	0	5	2	0
HAVRE	45	26	65	21	36	-8	T	-.1	T	1.7	94	9.2	85	96	54	0	6	1	0
HELENA	51	26	72	15	38	-5	.2	-.1	.2	1.5	100	12.7	128	85	43	0	5	1	0
KALISPELL	50	20	63	12	35	-5	T	-.3	T	.5	23	15.4	112	91	42	0	6	0	0
MILES CITY	46	27	71	17	37	-10	.2	0	.1	2.1	111	9.7	75	87	46	0	6	3	0
MISSOULA	51	27	69	19	39	-3	.3	-.1	.2	1.7	94	14.3	129	95	49	0	5	2	0
NE GRAND ISLAND	54	29	77	16	42	-10	T	-.2	T	2.2	65	19.7	89	86	38	0	5	1	0
LINCOLN	54	32	73	20	43	-9	.1	-.2	.1	3.4	79	19.8	80	88	44	0	4	1	0
NORFOLK	52	28	75	17	40	-10	.1	-.2	.1	2.1	57	18.9	83	88	38	0	6	2	0
NORTH PLATTE	54	26	75	13	40	-9	T	-.2	T	.8	27	21.6	114	89	37	0	5	0	0
OMAHA	52	31	70	20	42	-10	.1	-.2	.1	2.4	49	24.6	89	83	48	0	4	1	0
VALENTINE	48	25	75	12	37	-11	.2	0	.1	2.9	126	17.3	101	89	46	0	7	2	0
NV ELY	63	24	68	23	44	0	0	-.1	0	3.3	330	9.2	142	79	21	0	7	0	0
LAS VEGAS	80	50	83	48	65	1	0	-.1	0	.4	67	2.8	82	36	14	0	0	0	0
RENO	72	27	74	25	50	1	0	-.1	0	.3	43	3.1	55	86	19	0	7	0	0
WINNEMUCCA	69	23	72	18	46	0	0	-.2	0	1.2	120	5.3	82	77	18	0	7	0	0
NH CONCORD	58	33	71	23	46	-2	2.7	2.0	2.5	9.7	183	36.9	130	92	45	0	3	2	1
NJ ATLANTIC CITY	63	39	72	26	51	-4	1.6	.8	1.3	4.4	76	—	—	96	50	0	1	2	1
TRENTON	60	42	72	36	51	-3	.7	0	.5	5.7	106	33.3	100	79	43	0	0	2	0
NM ALBUQUERQUE	63	37	74	34	50	-5	T	-.1	T	1.8	129	7.3	104	80	30	0	0	1	0
ROSWELL	63	40	81	32	52	-5	.1	-.1	.1	3.8	141	24.3	241	83	35	0	1	1	0
NY ALBANY	56	31	63	19	43	-6	.9	.3	.9	5.5	98	23.8	87	90	45	0	3	1	1
BINGHAMTON	54	34	65	27	44	-4	.5	-.2	.5	5.8	104	23.8	77	80	42	0	3	1	1
BUFFALO	51	35	62	30	43	-6	.5	-.2	.3	6.4	110	30.1	105	92	53	0	2	3	0
NEW YORK	60	45	67	40	52	-4	1.0	.3	.9	5.3	93	27.2	80	76	49	0	0	2	1
ROCHESTER	50	36	62	30	43	-7	.5	-.1	.4	7.5	160	29.1	113	90	56	0	2	5	0
SYRACUSE	52	36	61	28	44	-6	.5	-.2	.4	8.5	163	25.5	87	91	54	0	2	4	0
NC ASHEVILLE	62	34	72	25	48	-7	1.0	.3	.7	2.7	42	27.7	72	99	48	0	3	2	1
CHARLOTTE	63	41	75	34	52	-7	1.8	1.3	1.5	5.5	96	28.8	79	84	41	0	0	3	1
GREENSBORO	61	37	73	30	49	-8	1.0	.3	.6	7.9	130	33.1	94	79	39	0	1	3	1
HATTERAS	71	53	80	43	62	-1	.9	-.2	.8	2.9	29	40.6	88	93	55	0	0	3	1
RALEIGH	65	39	78	29	52	-6	2.3	1.7	2.0	5.3	85	28.5	79	86	39	0	2	3	1
WILMINGTON	69	45	81	37	57	-6	.3	-.4	.2	2.0	23	37.4	80	93	51	0	0	3	0
ND BISMARCK	45	28	70	15	36	-8	T	-.1	T	2.4	114	13.1	87	75	38	0	6	3	0
FARGO	39	25	64	15	32	-13	.2	0	.2	3.9	139	16.5	90	90	54	0	6	3	0
WILLISTON	43	20	64	9	31	-12	.1	-.1	T	1.2	63	10.4	77	88	48	0	6	3	0
OH AKRON-CANTON	55	34	66	25	45	-6	.5	0	.4	4.6	100	35.6	119	81	37	0	4	2	0
CINCINNATI	58	33	70	20	45	-9	.3	-.2	.2	2.8	64	28.7	88	71	35	0	3	3	0
CLEVELAND	54	35	67	28	44	-7	1.1	.5	.7	8.8	176	33.5	111	86	44	0	3	4	1
COLUMBUS	57	33	71	21	45	-7	.5	0	.3	3.2	80	32.9	104	80	36	0	4	4	0
DAYTON	56	34	70	23	45	-8	.6	-.2	.5	6.3	158	35.8	122	82	47	0	3	2	0
TOLEDO	50	31	67	20	40	-10	1.1	.6	1.0	8.9	207	32.7	122	84	50	0	3	3	1
YOUNGSTOWN	54	34	68	27	44	-6	.6	-.1	.3	6.0	120	30.3	96	82	41	0	5	3	0
OK OKLAHOMA CITY	62	41	74	33	52	-9	.3	-.2	.2	7.6	129	34.9	121	87	44	0	0	3	0

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

Weather Data for the Week Ending Oct. 25, 1981

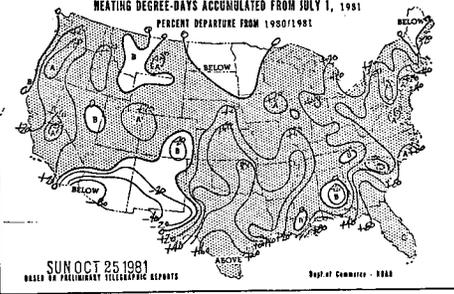
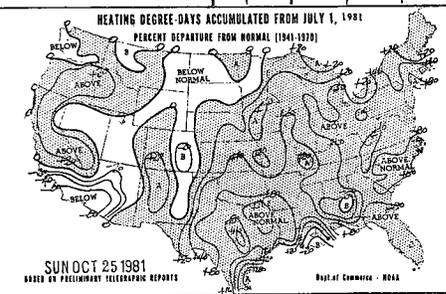
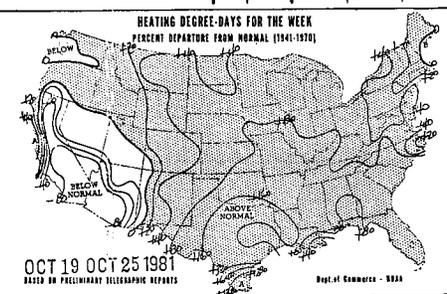
STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE AUG. 31	PCT. NORMAL SINCE AUG. 31	TOTAL, IN., SINCE JAN. 1	PCT. NORMAL SINCE JAN. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE °F		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
OR TULSA	62	42	76	34	52	-9	.6	-.1	.4	6.7	94	31.5	95	90	45	0	0	3	0
OR ASTORIA	62	44	68	38	53	-1	1	1.7	T	8.6	108	42.8	96	84	56	0	0	1	0
OR BURNS	64	23	70	17	44	-1	0	0	0	1.5	136	8.8	105	83	28	0	0	0	0
OR MEDFORD	74	35	79	34	55	-3	0	0	0	1.5	68	7.8	57	91	35	0	0	0	0
OR PENDLETON	62	34	75	29	48	-2	0	0	0	4.5	100	11.0	117	77	32	0	0	0	0
OR PORTLAND	63	40	69	34	52	0	0	0	0	2.0	133	20.0	79	98	50	0	0	0	0
OR SALEM	64	33	70	28	49	-2	0	0	0	5.9	128	22.6	82	97	47	0	0	0	0
PA ALLENTOWN	59	35	71	31	47	-5	1.1	.7	T	5.0	85	29.4	85	84	46	0	0	0	0
PA ERIE	52	37	64	31	44	-5	.7	0	0	8.2	132	36.0	117	74	44	0	0	1	0
PA HARRISBURG	59	37	70	28	48	-6	1.0	.5	0	4.4	90	29.4	99	86	42	0	0	2	0
PA PHILADELPHIA	61	39	73	31	50	-5	1.0	.5	0	4.8	92	31.1	95	88	45	0	0	1	0
PA PITTSBURGH	56	35	67	23	45	-6	.6	0	0	5.5	117	32.2	106	84	38	0	0	2	0
PA SCRANTON	57	38	70	32	48	-3	.7	0	0	5.5	108	30.8	106	74	47	0	0	2	0
RI PROVIDENCE	62	39	73	31	50	-2	.9	-.1	0	5.5	92	26.3	79	87	40	0	0	1	0
SC CHARLESTON	71	47	84	34	59	-5	.3	-.3	0	2.2	28	42.7	92	91	44	0	0	2	0
SC COLUMBIA	69	42	81	31	56	-6	1.5	.9	0	2.3	33	30.0	74	93	41	0	0	1	0
SC GREENVILLE	64	40	75	32	52	-8	2.8	2.1	0	2.6	85	25.8	65	74	39	0	0	1	0
SD ABERDEEN	45	31	71	24	38	-8	T	-.3	T	-.3	-.3	-.3	75	39	0	0	1	0	
SD HURON	49	29	72	17	39	-8	T	-.3	T	-.3	-.3	-.3	75	39	0	0	1	0	
SD RAPID CITY	48	26	75	12	37	-11	T	-.3	T	2.7	90	14.1	78	86	43	0	0	1	0
SD SIOUX FALLS	49	27	70	17	38	-10	.2	0	0	2.1	95	13.8	82	89	47	0	0	1	0
TN CHATTANOOGA	62	39	74	32	51	-8	.1	-.2	0	2.9	69	16.5	71	82	39	0	0	0	0
TN KNOXVILLE	61	40	71	34	51	-8	1.1	.5	0	4.9	79	35.4	86	81	43	0	0	2	0
TN MEMPHIS	62	42	75	30	52	-9	2.0	1.4	0	1.3	9.3	194	35.8	95	89	48	0	1	0
TX NASHVILLE	64	39	76	28	52	-7	1.2	.7	0	7.9	149	35.0	87	80	38	0	0	2	0
TX ABILENE	64	45	80	38	55	-9	.8	.4	0	3.3	67	34.7	92	79	36	0	0	1	0
TX AMARILLO	63	36	82	28	50	-7	.8	.2	0	6	124	26.9	126	83	45	0	0	2	0
TX AUSTIN	71	53	83	47	62	-6	.1	-.3	0	4.8	137	19.3	106	78	35	0	0	2	0
TX BEAUMONT	71	54	83	47	63	-5	.6	-.1	0	9.2	144	44.3	158	85	49	0	0	2	0
TX BROWNSVILLE	80	59	90	53	69	-5	1.0	.3	0	9.0	105	44.4	98	94	60	0	0	2	0
TX CORPUS CHRISTI	75	57	87	53	66	-7	2.9	2.4	0	6.5	78	28.1	126	91	57	1	0	2	0
TX DEL RIO	71	53	84	45	62	-7	.7	.3	0	6.2	82	37.5	148	90	57	0	0	2	0
TX EL PASO	72	46	80	34	59	-3	.1	0	0	6.9	135	27.2	173	72	46	0	0	2	0
TX FORT WORTH	66	47	77	38	57	-9	.1	0	0	1.0	53	12.3	176	85	33	0	0	2	0
TX GALVESTON	73	59	82	50	66	-5	2.5	1.9	0	13.0	232	39.5	140	87	49	0	0	2	0
TX HOUSTON	73	53	82	47	63	-6	.1	-.4	0	4.8	59	31.3	89	82	54	0	0	2	0
TX LUBBOCK	62	39	79	31	50	-8	T	-.8	T	14.6	183	47.4	120	91	54	0	0	3	0
TX MIDLAND	67	44	82	36	56	-8	.6	.4	0	7.2	171	22.2	131	90	47	0	0	1	0
TX SAN ANGELO	65	43	78	38	54	-11	.6	.4	0	5	207	17.4	143	82	42	0	0	2	0
TX SAN ANTONIO	72	50	83	46	61	-7	1.6	1.2	0	11.3	246	30.0	190	89	50	0	0	2	0
TX VICTORIA	73	54	83	49	63	-7	.6	.1	0	8.0	127	34.0	139	88	50	0	0	2	0
TX WACO	70	49	78	41	59	-7	1.0	.3	0	5.9	77	38.2	130	93	56	0	0	2	0
TX WICHITA FALLS	66	42	77	33	54	-10	.6	.1	0	11.2	204	31.4	118	91	51	0	0	2	0
UT BLANDING	63	34	67	32	48	-1	.3	-.3	0	9.3	175	30.4	123	94	48	0	0	1	0
UT SALT LAKE CITY	61	37	69	34	49	-1	0	-.3	0	2.9	132	11.3	118	69	28	0	0	0	0
VT BURLINGTON	50	34	57	24	42	-5	0	-.3	0	3.0	188	12.3	99	83	35	0	0	0	0
VA LYNCHBURG	60	36	74	26	48	-8	.9	.3	0	8.9	162	35.0	132	90	56	0	0	0	0
VA NORFOLK	67	44	80	34	56	-4	.6	.1	0	4.4	80	29.0	91	82	40	0	0	1	0
VA RICHMOND	65	38	79	28	52	-5	2.4	1.8	0	6.6	92	33.7	88	92	40	0	0	2	0
VA ROANOKE	60	35	73	26	47	-9	1.3	.6	0	4.7	76	30.1	84	90	39	0	0	2	0
WA COLVILLE	54	29	59	21	42	-2	0	-.4	0	5.3	84	23.8	72	86	38	0	0	3	0
WA OMAK	62	33	68	30	48	-1	.5	-.2	0	3.0	150	19.5	159	89	49	0	0	2	0
WA QUILLAYUTE	61	37	69	30	49	-1	0	-.4	0	2.5	-.3	9.0	-.3	-.3	0	0	0	0	0
WA SEATTLE-TACOMA	58	43	62	41	50	0	.3	-2.5	0	11.9	84	67.0	92	98	53	0	0	4	0
WA SPOKANE	57	33	63	23	45	0	T	-1.0	T	9.1	182	25.2	98	88	55	0	0	2	0
WA WALLA-WALLA	63	37	76	33	50	-2	0	-.3	0	1.6	89	11.1	85	83	37	0	0	0	0
WA YAKIMA	64	31	74	25	48	0	0	-.4	0	2.4	120	16.4	131	75	31	0	0	0	0
WV BECKLEY	56	34	67	27	45	-6	.7	-.2	0	1.6	200	4.9	91	75	31	0	0	4	0
WV CHARLESTON	61	33	73	25	47	-8	0	-.1	0	7.2	131	31.5	87	77	40	0	0	3	0
WV HUNTINGTON	60	34	73	25	47	-8	.8	-.2	0	4.2	84	31.4	90	91	38	0	0	3	0
WV PARKERSBURG	59	36	71	31	48	-5	1.2	.7	0	3.9	83	33.6	102	80	33	0	0	4	0
WI GREEN BAY	44	29	58	19	37	-10	.6	-.1	0	4.9	107	28.5	87	89	38	0	0	3	0
WI LA CROSSE	47	30	59	20	38	-11	.1	-.2	0	6.7	140	21.4	90	92	56	0	0	2	0
WI MADISON	47	29	64	18	38	-10	T	-.4	T	4.1	77	32.7	124	90	52	0	0	4	0
WI MILWAUKEE	45	30	62	18	38	-11	.1	-.3	0	7.4	142	29.7	111	89	53	0	0	5	0
WY CASPER	47	25	68	13	36	-10	.2	0	0	8.4	175	30.4	122	85	44	0	0	3	0
WY CHEYENNE	49	24	69	14	37	-9	.4	-.2	0	1.0	59	9.9	102	86	43	0	0	6	0
WY LANDER	50	26	68	19	38	-6	T	.2	T	1.1	61	16.0	117	89	41	0	0	6	0
PR SHERIDAN	50	27	78	15	39	-7	.3	-.3	0	1.2	55	10.1	83	92	42	0	0	7	0
PR SAN JUAN	89	75	93	73	82	2	.3	.1	0	1.5	68	13.2	92	84	44	0	0	4	0
							6.4	5.1	2.7	10.1	93	49.7	104	95	67	2	0	5	3

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

HEATING DEGREE DAYS (BASE 65°) FOR WEEK ENDING OCT. 25, 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 such as ALA. BIRMINGHAM, ARIZ. FLAGSTAFF, CALIF. BAKERSFIELD, etc.



## National Agricultural Summary

October 19-25, 1981

**HIGHLIGHTS:** Wet weather and muddy fields delayed field activities again. However, the rain is beneficial for fall-seeded grains. Farmers had 4 to 6 days suitable for fieldwork except in Missouri, Oklahoma, and Wisconsin where 2 to 4 days were available. Soil moisture supplies were adequate to surplus in Minnesota, Wisconsin, Oklahoma, and in parts of Kansas; very short to short in most of the Southeast and in North Dakota; and short to adequate elsewhere. Corn, soybean, and sorghum harvests continued to lag behind schedule, and in some areas fell further behind due to wet conditions. In the 17 major producing States, 46% of the corn acreage had been harvested, lagging last year's rapid progress of 75% and the 57% average. Soybean harvest in the 18 major States was 55% complete, 16 points behind last year and 9 points behind normal. Winter wheat seeding advanced to 86% finished in the 15 major States, equal to last year; plants had emerged on 70% of the acreage. Stands were generally in good condition. In the 14 major cotton producing States, 86% of the acreage had been harvested, compared to 91% a year earlier. Grain sorghum was 49% harvested. Rice harvest neared completion in all States except California where progress reached 65%. Fall apple harvests were about finished. Southern vegetable harvests increased in volume. Pastures declined seasonally; supplemental feeding was necessary. Livestock were in good condition.

**CORN:** Corn harvesting in the 17 major producing States progressed slowly to 46% complete, compared to last year's rapid pace of 75% harvested by this date and the 57% average. Progress fell as much as 33 percentage points behind normal in Colorado, 31 points in Minnesota, and 21 points in Wisconsin as wet weather and muddy fields delayed harvesting. Combining in most major States was behind schedule. Dry weather is needed before machinery can enter fields in many areas. General frosts in northern areas should facilitate drying of corn.

**SOYBEANS:** Soybeans were dropping leaves on 95% of the acreage, 1 point ahead of last year. Harvesting in the 18 major producing States was 55% finished, lagging last year's 71% and the 64% average. Progress was behind normal in all areas except the Southeast where producers were able to harvest at a fast pace due to dry weather during the season. Combining in Minnesota was 35 points behind schedule, Kentucky--27 points, Louisiana--17 points, and Indiana and Ohio--15 points.

**COTTON:** In the 14 major producing States 86% of the cotton acreage was showing open bolls, 5 points behind last year. Only Arkansas, Georgia, Oklahoma, and Texas had acreage where bolls were not yet opened. Thirty-seven percent of the acreage had been harvested, lagging last year's 45%. Progress was ahead of normal in all States except Arkansas, Missouri, and Texas.

Maturity continues slow in Texas. If conditions remain wet, quality and yields may suffer.

**SMALL GRAINS:** Winter wheat seeding in the 15 major producing States reached 86% complete, equal to last year's progress. Seeding was finished in Montana, Nebraska, and South Dakota. Plants had emerged on 70% of the acreage, compared to 69% a year ago. Rains promoted growth of emerged fields and helped germinate late-planted fields. Stands were generally in good condition.

**SORGHUM:** Grain sorghum harvesting was 49% finished, well behind last year's 76% and the 74% average. Progress was behind schedule in all seven major producing States as rain and cool weather delayed harvesting and slowed maturity.

**OTHER CROPS:** Rice was 92% harvested in the five major States, 3 points behind last year. The California harvest reached 65% complete, lagging last year's 80%.

The Maine potato harvest neared completion. The Idaho harvest was 87% finished, about a week behind normal. Cold weather in eastern Idaho delayed digging.

Tobacco growers continued to strip this year's crop. The burley crop in Tennessee was 40% stripped and the Kentucky burley crop was 14% stripped.

The peanut harvest neared completion in the Southeast but was only 39% finished in Texas.

**FRUITS AND NUTS:** Apple growers continued picking late variety apples, but the bulk of the fall apple harvest was over. Pecan harvests became more widespread. Florida's citrus groves remained dry, but scattered rain over the weekend should help conditions. Harvesting of early varieties continues to increase. Arizona's citrus groves were in mostly good condition. Lemon picking continued. Limited Navel orange picking was underway. Other new crop fruit sized well. In Texas, the grapefruit and early orange harvest continued with excellent size and quality reported. The California Desert lemon and grapefruit harvest was limited, but the Navel orange harvest increased. The almond and walnut harvest continued.

**VEGETABLES:** Only a few hardy vegetables were available for harvest in northern production areas. Florida growers sprayed and irrigated crops. Harvesting picked up seasonal momentum. California producers harvested a wide variety of vegetables. Texas growers planted carrots and onions and harvested other vegetables.

**PASTURES AND LIVESTOCK:** Summer pastures continued to decline seasonally. Livestock were moved to winter grazing areas and many producers fed supplemental feed to herds. Pastures and ranges in Texas benefited from recent rains and grasses were making good growth.

**CROP PROGRESS**  
FOR WEEK ENDING OCT 25, 1981

NA - NOT AVAILABLE

CORN % HARVESTED				WINTER WHEAT % PLANTED				WINTER WHEAT % EMERGED			
	1981	1980	AVG.		1981	1980	AVG.		1981	1980	AVG.
COLO	30	71	63	CALIF	18	12	NA	CALIF	5	0	NA
GA	99	97	91	COLO	97	99	99	COLO	86	90	88
ILL	57	85	62	IDAHO	94	93	93	IDAHO	59	68	67
IND	30	75	45	ILL	75	91	84	ILL	50	65	NA
IOWA	55	80	63	IND	70	90	75	IND	35	65	50
KANS	55	85	75	KANS	95	95	90	KANS	85	80	NA
KY	75	83	69	MO	61	75	63	MO	45	60	47
MICH	20	30	36	MONT	100	100	100	MONT	80	90	NA
MINN	31	61	62	NEBR	100	100	100	NEBR	100	98	NA
MO	65	89	65	OHIO	80	95	90	OHIO	45	65	55
NEBR	35	85	50	OKLA	85	75	85	OKLA	65	40	60
N C	92	92	88	OREG	89	85	NA	OREG	54	63	NA
OHIO	30	75	45	S DAK	100	100	100	S DAK	100	100	100
PA	44	51	31	TEX	75	75	81	TEX	61	60	NA
S DAK	53	76	61	WASH	94	91	90	WASH	81	76	NA
VA	80	73	67								
WIS	13	38	34	15 STATES	86	86	NA	15 STATES	70	69	NA
17 STATES	46	75	57	EXCL. STATES WITH NA	87	88	88	EXCL. STATES WITH NA	64	61	65

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

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

SOYBEAN % DROPPING LEAVES				SOYBEAN % HARVESTED				COTTON % BOLLS OPENING				COTTON % HARVESTED				
	1981	1980	AVG.		1981	1980	AVG.		1981	1980	AVG.		1981	1980	AVG.	
ALA	96	91	NA	ALA	46	44	35	ALA	100	100	97	ALA	71	72	37	
ARK	88	76	NA	ARK	26	25	31	ARIZ	100	100	100	ARIZ	32	25	22	
GA	90	73	NA	GA	26	21	17	ARK	99	100	91	ARK	50	74	57	
ILL	100	100	100	ILL	85	96	89	CALIF	100	100	NA	CALIF	40	23	NA	
IND	100	100	100	IND	60	93	75	GA	96	99	NA	GA	65	85	46	
IOWA	100	100	100	IOWA	85	96	90	LA	100	100	100	LA	76	84	67	
KANS	95	95	NA	KANS	45	65	60	MISS	100	100	100	MISS	80	82	64	
KY	95	100	99	KY	27	72	54	MO	100	100	100	MO	31	78	64	
LA	85	94	91	LA	48	62	65	N MEX	100	80	NA	N MEX	20	15	17	
MICH	100	100	100	MICH	40	55	52	N C	100	99	NA	N C	64	74	41	
MINN	100	100	100	MINN	55	91	90	OKLA	95	95	90	OKLA	10	10	5	
MISS	100	100	100	MISS	38	44	45	S C	100	100	100	S C	74	80	61	
MO	87	98	98	MO	52	76	63	TENN	100	100	82	TENN	50	84	49	
NEBR	100	100	100	NEBR	80	94	85	TEX	74	84	NA	TEX	24	37	32	
N C	80	54	NA	N C	22	12	14	14 STATES	86	91	NA	14 STATES	37	45	NA	
OHIO	99	100	100	OHIO	60	95	75	EXCL. STATES WITH NA	99	99	96	EXCL. STATES WITH NA	37	48	38	
S C	91	71	75	S C	14	8	9									
TENN	90	99	99	TENN	26	47	37									
18 STATES	95	94	NA	18 STATES	55	71	64									
EXCL. STATES WITH NA	97	98	98	THESE 18 STATES PRODUCED 95% OF THE 1980 SOYBEAN CROP.				THESE 14 STATES PRODUCED 99% OF THE 1980 COTTON CROP.								

SORGHUM % MATURE				SORGHUM % HARVESTED				RICE % HARVESTED			
	1981	1980	AVG.		1981	1980	AVG.		1981	1980	AVG.
COLO	88	95	95	COLO	30	46	52	ARK	95	96	95
KANS	80	90	95	KANS	25	60	65	CALIF	65	80	NA
MO	87	98	98	MO	54	82	69	LA	100	100	100
NEBR	97	100	100	NEBR	35	93	75	MISS	92	95	93
OKLA	95	85	95	OKLA	35	45	50	TEX	100	100	100
S DAK	98	97	97	S DAK	59	72	72	5 STATES	92	95	NA
TEX	93	96	NA	TEX	81	88	88	EXCL. STATES WITH NA	97	98	97
7 STATES	89	94	NA	7 STATES	49	76	74				
EXCL. STATES WITH NA	87	93	97	THESE 7 STATES PRODUCED 92% OF THE 1980 SORGHUM CROP.				THESE 5 STATES PRODUCED 98% OF THE 1980 RICE CROP.			

## State Summaries of Weather and Agriculture

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

**ALABAMA:** Temperatures below normal. Rain scattered, up to 1.00 in.

Fieldwork: 5.0 days. Activities: Row crop harvest; land preparation; small grain seeding. Soybeans: Dropping leaves 96%, 91% 1980; harvested 46%, 44% 1980, 35% average. Cotton: Bolls open 100%, 100% 1980, 97% average, harvested 71%, 72% 1980, 37% average. Peanuts: Dug 99%, 92% 1980, 95% average, combined 92%, 86% 1980, 92% average. Wheat seeded 35%, 50% 1980, 55% average. Sorghum harvested 78%, 75% 1980. Conditions: Soybeans, pastures fair.

**ARIZONA:** Mostly sunny, dry Statewide, few scattered light showers southeast, White Mountains last part week. Amounts mostly under 0.33 in. Average temperatures ranged 4° below normal to 4° above.

Cotton good progress during week, bolls maturing rapid rate; 32% crop first picked, compared 25% last year. Sorghum harvest continued, yields reported about average, little better. Alfalfa haying good progress during week, limited rain damaged hay. Renovation old, seeding new fields active. Harvest corn for grain rapidly closing Cochise, Graham counties. Very good to excellent yields reported. Sugarbeets good growth, weeding, thinning just about complete. Lettuce harvest steady progress southeast. Lettuce central, western areas growing well, earliest plantings nearing maturity. Other mixed vegetables growing well. Cantaloup, honeydew harvest steady progress. White flies causing relatively severe problems some vegetable, melon fields. Lemon ring picking continued Salt River Valley, Yuma. Limited Navel orange harvest underway Salt River Valley. Other new crop fruit sizing very well, showing good color break. Citrus groves mostly good condition, new growth prevalent. Fair to good range most of State. Southwestern Deserts dry, livestock fair to good. Water supplies, soil moisture short to adequate Deserts, adequate other areas.

**ARKANSAS:** Very cold week. Highest temperatures 80°, lowest 19°. Departures from normal -7 to -5°. Most rainfall 2.02, least 0.03 in.

Rain at mid week halted harvesting activity. Four days fieldwork. Rice harvested 95%, 96% 1980, 95% average. Soybeans yellowing 99%, 93% 1980; shedding leaves 88%, 76% 1980; mature 71%, 61% 1980; harvested 26%, 25% 1980, 31% average. Cotton harvested 50%, 74% 1980, 57% average. Wheat planted 27%, 49% 1980, 47% average; good stands. Soil moisture adequate. Pastures greening. Livestock good condition.

**CALIFORNIA:** After the unseasonably cold temperatures last week and with snow of several inches in the Sierra Nevada, the mean temperatures returned to normal to a few degrees warmer than normal. The south coast and the Cascade-Sierra showed the greatest warming and the newly fallen snow in the Sierra melted rapidly. The southeast interior had highest temperatures close to the century mark. Coldest temperatures were confined to upland valleys of the northeast quarter. No measureable precipitation reported anywhere.

Rice harvest 65% complete, 80 previous year. Harvest of cotton active, 40%, 23% a year ago. Yields reported good. Winter wheat planting active, 18% complete, 12% year ago. Five percent winter wheat emerged. Soil conditions reported good, northern area. Dry bean harvest progressing. Milo increasing. Field corn continues. Desert lemon and grapefruit harvest

slow. Navel orange harvest increased slightly. Few lots Valencia oranges packed central district. Almond and walnut harvest continued. Kiwi harvest picking up. Freestone peach and plum packing completed. Artichoke harvest along central coast active, supply moderate quality variable. Broccoli, cauliflower harvest active along central coast; good supply. Bell pepper declining. Carrot harvest Salinas, San Joaquin active. Desert melon harvest declining. Blythe suffering from white fly. Lettuce quality declining Salinas Valley. Blythe harvest begin November 1st. Fall potato harvest Tulelake-Butte and sweetpotato harvest San Joaquin progressing well. Market tomato harvest continues San Joaquin Valley. Green tomato harvest, planting of onions for seed began in Fresno area. Rain needed most range areas. Supplemental feeding necessary many areas. Calving, lambing active.

**COLORADO:** High pressure dominated the region early in the week with mostly clear skies and mild temperatures. Cold front across eastern plains mid week lowered temperatures by 30 to 40° accompanied by low clouds, drizzle, fog, and a few snow flurries. Precipitation amounts were light as skies cleared and temperatures warmed over the plains on 23rd.

Winter wheat seeded 97%, 99% 1980, 99% average; emerged 86%, 90% 1980, 88% average. Corn mature 92%, 98% 1980, 98% average; grain harvest 30%, 71% 1980, 63% average. Sorghum ripe 88%, 95% 1980, 95% average; grain harvest 30%, 46% 1980, 52% average; forage harvest 95%, 92% 1980, 94% average. Dry beans cut 99%, 98% 1980, 98% average; threshed 95%, 96% 1980, 96% average. Fall potato harvest 100%, 99% 1980, 98% average. Sugarbeets harvest 54%, 68% 1980, 68% average. Alfalfa hay 4th cutting 51%, 63% 1980. Fieldwork: 5½ days suitable. Ranges and pastures good condition. Livestock good condition.

**FLORIDA:** Rainfall spotty, averaging less than 0.25 in. most places. High temperatures mostly in 70's, 80's north; 80's central, south. Lows mainly in 50's north to 60's south except for 30's and 40's. Panhandle, 19th, 20th.

Soil moisture mostly short, some areas adequate in south. Weekend rains helpful. Cotton, soybean harvest increasing, peanut harvest declining. Haymaking continues but about complete. Harvesting sugarcane for sugar underway. Dry soils delaying small grain seedings. Pastures declined somewhat. Conditions very poor some upper central Panhandle areas, west coast areas in upper Peninsula. Grazing in lower south good to excellent; elsewhere mostly poor to fair. Condition of cattle, calves varies but generally fair to good. Citrus groves dry. Scattered weekend rains several areas. Fruit color very good, early fruit. Harvest continues to increase for fresh fruit sales. Clear to partly cloudy skies prevailed vegetable areas. Light to moderate showers occurred along lower East Coast. Other areas continued mostly dry with irrigation active. Spray programs steady. Harvest activity increased most crops. Total vegetable shipments were up 69% from previous week. Harvest gained seasonally for snap beans, carrots, sweet corn, cucumbers, eggplant, escarole, peppers, squash, tomatoes. Supplies very light for lettuce. Volume declined okra, radishes. Transplanting of strawberries still active but nearing completion Hills-

borough-Manatee area. Light harvest fall water-melons underway. Quality, size appear good.

GEORGIA: The 17th through 23rd dryer than normal with near normal temperatures. Scattered showers on the 18th and rain again the 23rd. Rainfall totals 0.50 to 0.75 in. northernmost sections, only about 0.10 in. west central and scarcely any elsewhere. The 24th and 25th cloudy and rainy. Temperatures much cooler. Rainfall over 1.00 in. in many areas.

Soil moisture short to very short by weekend. Statewide rains, mostly 1.00 in. to 2.00 in. on 24th and 25th greatly improved soil moisture supplies. Five days suitable for fieldwork. Harvesting and small grain seeding continued. Corn 99% harvested, 97% last year, 91% average. Soybeans 26% harvested, 21% last year, 17% average. Peanuts 99% dug and 96% threshed, last year 96% and 93%, average 98% and 94%. Cotton 96% open, 99% last year, 65% harvested, 85% last year, average 46%. Apples 97% harvested, 98% last year. Pecans fair to good, 12% harvested, 9% last year, 10% average. Wheat 19% seeded, 28% last year, average 29%. Rye 40% seeded, 47% last year, 44% average. Other small grains 34% seeded, 40% last year and average. Pastures and hay crops poor to fair. Cattle and hogs fair to good.

HAWAII: Weather remained favorable. Warm but becoming cooler in some sections. Leafy crops improving during this weather change as insects and disease infestations have decreased. Irrigation heavy in some dry areas. Vegetables: all cabbage crops improving. Chinese and mustard cabbage supplies moderate to heavy while head cabbage cuttings were increasing. Others adequate. Bananas: supplies up. More fields in peak flush. Papayas: marketing problems continue resulting in less harvest. Pineapples: harvesting light. Sugar: harvesting gradually decreasing. Pastures: additional moisture needed in the leeward areas.

IDAHO: Temperatures ranged from 2° above to 5° below normal. High of 72° in several southwest localities and a low of 8° in Hamer. The State was dry after three weeks of wet weather. Only one station reported any measurable precipitation.

Cold temperatures in the eastern counties delayed potato harvest. Potatoes were a week behind with 87% dug compared to 95% in 1980 and 93% average. Sugarbeet harvest was also behind with 41% dug, 51% in 1980, and 66% average. With soil moisture supplies once again adequate, winter wheat planting advanced rapidly to 94% seeded compared to 93% in 1980, and 93% average. Emergence remained behind last year at 59% compared to 68% in 1980. Livestock in good condition and movement continued down to the winter ranges.

ILLINOIS: Temperatures 9 to 13° below normal. Precipitation trace to 0.20 in. northern two-thirds, 0.50 to 1.00 southern third.

Corn 57% harvested, 85% 1980, 62% average. Soybeans 85% combined, 96% 1980, 80% average. Winter wheat 75% seeded, 91% 1980, and 84% average; 50% emerged, 65% 1980. Corn and soybean acreage 20% tilled, 25% 1980, and 26% average. Pastures 9% excellent, 63% good, 23% fair, 5% poor. Soil moisture 3% short, 72% adequate, 25% surplus. Fieldwork: 4.0 days suitable.

INDIANA: Severe cold on 24th. Temperatures declined to high teens over much of State, comparable to previous record low October temperatures. Rainfall 0.30 northwest, elsewhere 0.60 to 0.80 in. Sunshine 77% of possible southwest, 50% northeast. Soil temperatures averaged in high 40's.

Fieldwork averaged 4 days. Topsoil and subsoil moisture adequate. Corn 30% harvested, 1980 75%,

average 45%. Soybeans 60% combined, 1980 93%, average 75%. Moisture content: Corn 25%, soybeans 14%. Wheat 70% seeded, 1980 90%, average 75%. Wheat 35% emerged, 1980 65%, average 50%. Land for spring planted crops 18% plowed, 1980 35%, average 18%.

IOWA: A cool week with subnormal precipitation. Snow flurries the 23rd and measurable snow the 24th over much of northern two-thirds of State. Heaviest snowfalls over northwestern counties with 2 in. at Alton.

Topsoil moisture: 9% short, 71% adequate, 20% surplus. Subsoil moisture: 25% short, 66% adequate, 9% surplus. Corn acreage harvested: 55%, 1980 80%, normal 63%. Soybean acreage harvested: 85%, 1980 96%, normal 90%. Fall plowing completed: 17%, 1980 26%, normal 20%. Fertilizer application complete: 15%, 1980 28%. Fieldwork: 5.0 days suitable. Livestock reported to be in mostly good to excellent condition.

KANSAS: Rain generally 1.00 to 2.00 in. southeast and locally over 1.00 in. remainder of south. Generally less than 0.10 in. north and west. Temperatures averaged 45° northwest and 47 to 50° elsewhere, 6 to 10° below normal. Killing frost and freezes most areas.

Wheat 95% planted, 95% last year, 90% average; 85% emerged, 80% last year. Corn 98% mature, 100% last year and average; 55% harvested, 85% last year, 75% average. Soybeans 95% shed leaves, 95% last year; 45% harvested, 65% last year, 60% average. Sorghum 80% mature, 90% last year, 95% average; 25% harvested, 60% last year, 65% average. Range and pasture continues good to excellent, except west central poor to fair. Surface and subsoil moisture short in west central, adequate to surplus elsewhere. Adequate to surplus feed grain, hay and forage supply. Some cattle movement reported. Fieldwork: 4.5 days suitable.

KENTUCKY: Temperatures averaged between 5 and 10° below normal. Precipitation ranged from 0.25 to slightly more than 1.25 in. Temperatures in low 20's 23rd resulted in killing freeze.

Soil moisture 59% short and 41% adequate. Fieldwork: 5 days suitable. Burley stripping 14% complete. Corn 75% harvested compared with 83% last year, average of 69%. Harvest of soybeans continues to lag and at 27% complete was well behind last years 72%, average of 54%. Fall wheat 55% seeded. Recent rain beneficial for germination and fall growth. Winter hay supplies expected to be ample.

LOUISIANA: Rainfall generally between 0.50 and 1.50 in. Temperatures 2 to 5° below normal.

Soil moisture short to adequate. Days suitable: 5.2. Cotton harvested 76%, 84% 1980, 67% average; condition fair. Soybean leaves turning 96%, 95% 1980, 92% average; leaves shedding 85%, 94% 1980, 91% average; harvested 48%, 62% 1980, 65% average, condition fair. Sugarcane planted 100%, 94% 1980, 92% average; harvested 20%, 10% 1980, 12% average; condition good. Sweetpotatoes harvested 96%, 86% 1980, 85% average. Vegetables rated fair to good. Pecans rated fair to good; harvested 8%, 10% 1980. Wheat seeded 18%, 44% 1980, 60% average; condition fair. Pasture rated fair. Livestock rated fair to good. Hay final cutting 98%, 95% 1980. sorghums harvested 100%, 96% 1980, 94% average.

MARYLAND AND DELAWARE: Rains on 18th averaged 0.75 in. Rest of week dry. Temperature averaged 3° below normal. High in 60's, lows upper 30's to low 40's.

Maryland: Good harvest progress. Corn 80% harvested, 90% last year. Soybean harvest slowed, 40% cut, 55% last year, 85% shed leaves, 90%

last year. Killing frost last week should speed harvest. Small grains seed: Barley 95%, week ahead of 1980; wheat 67%; rye 75%; oats 75%, all equal to 1980. Apple harvested 95%, tobacco bed fumigation resumed.

**Delaware:** Corn harvested 90%, last year 100%. Soybeans harvested 25%, 50% in 1980; 95% with shed leaves, entirely shed last year. Small grains this year and last: Barley 95%, one week ahead; wheat 55%, one week behind; rye 45%, one week behind. Soil moisture short both states. Fieldwork: 6 days suitable.

**MICHIGAN:** A cold week with temperatures averaging 9 to 12° below normal. Snow fell over most of the State with snow depths of up to 4 in. reported over the Upper Peninsula. Precipitation totals were mostly light with a few areas having moderate amounts.

Overall field activity in "low gear". The mid-week snow and rain combination slowed fieldwork but did not have a lasting effect. A few producers were back in fields shortly after the unpleasant weather. Statewide 4 days were suitable for fieldwork. Dry bean harvest going into final stages with 90% in, 95% in 1980 and 89% average. Corn picking advanced to 20%, 30% last year and 36% average. Corn silage 95% cut, last year 95% and average of 93%. Soybeans 40% harvested, 55% in 1980 and 52% average. Planted winter wheat 75%, last year 90%, 89% average. Sugarbeet harvest increased to 40%, 45% in 1980 and 55% average. Apple harvest near completion with over 95% picked. Grapes also 95% harvested.

**MINNESOTA:** Temperatures were unseasonably low. Average 12° below normal. Extremes: 10 and 68° at several localities. Precipitation was below normal over all of the State except north east corner where amounts exceeded normal by 0.20 in. Statewide precipitation averaged 0.25 in. below normal. Snowfall also occurred over most of State with greatest amount in southern areas; 4 in. in Wasceca. Elsewhere amounts ranged from trace to less than 2 in.

Harvest continued slowly under poor weather and fell further behind normal. Fields remained wet for most of week and only drier parts were harvested around middle of week. Snowfall towards end of week. Topsoil moisture 2% short, 53% adequate, and 45% surplus. Harvested: field corn 31%, 1980 61%, normal 62%; soybeans 55%, 1980 91%, normal 90%; sunflowers 53%, 1980 84%, normal 85%; sugarbeets 59%, 1980 93%, normal 95%; potatoes 95%, 1980 99%, normal 98%. Moisture content: field corn 26%, 1980 22%, normal 22%; soybeans 14%, 1980 12%, normal 12%.

**MISSISSIPPI:** Temperatures 6 to 10° below normal. Two cold fronts brought rain to most of State. Temperature extremes: 24 and 85°. Greatest 24-hour rainfall 2.55 in.

Soil moisture short to adequate. Days suitable for fieldwork: 4.5. Cotton 80% harvested, 82% last year, 64% average; condition fair to good. Soybeans 100% shedding, this year, last year and average; 85% mature, 75% last year; harvested 38%, 44% last year, 45% average; condition fair. Rice 92% harvested, 95% last year, 93% average. Corn 94% harvested; peanuts 96%; sweetpotatoes 82%; sorghum 94%; pecans 22%. Winter wheat 36% planted, 41% last year, 59% average. Pasture conditions fair.

**MISSOURI:** Temperatures cooled from highs of 60 to 70° early in the week to highs of 40 to 50° late in the week. Precipitation was confined to the southern and central sections of the State. Precipitation continues to be above normal for October in most of the State.

Fieldwork: 3.6 days suitable. Corn 65% harvested, last year 89%, normal 65%. Grain

sorghum 87% mature, last year 98%, normal 100%. Grain sorghum 54% harvested, last year 82%, normal 69%. Soybeans 87% mature, last year 98%, normal 100%. Soybeans 52% harvested, last year 76%, normal 63%. Winter wheat 61% seeded, last year 75%, normal 63%. Fall plowing 29% completed, last year 34%, normal 27%. Cotton 31% harvested, last year 78%, normal 64%. Condition of pastures fair to good. Supply of topsoil moisture mostly adequate.

**MONTANA:** Temperatures very warm first two days of week. Colder temperatures and occasional snow occurred over eastern portions remainder of week. Temperatures mostly 5 to 10° below normal. Highest 73° at Hamilton, Billings and Broadus, lowest 0° at Ovando. Most of west and southwest dry. Central, south central and southeast received moderate to heavy amounts precipitation, some areas over 1.00 in.

Topsoil moisture short to adequate. Subsoil moisture remains short eastern third, short to adequate elsewhere. Days suitable for fieldwork: 4. Percent harvested compared with last year and normal: potatoes 90, 90, 95; sugarbeets 80, 70, 90. Winter wheat emerged 80%. Condition fair to good. Cattle and sheep moved off summer ranges 80%. Cattle on supplemental feed 10%; sheep 15%.

**NEBRASKA:** Temperatures: 10° below normal. Hard freezing temperatures, some record lows recorded. Precipitation: widespread precipitation during midweek and again at the end. Amounts averaged from 0.25 to 0.75 in.

Corn harvest 35% complete, 85% last year and 50% normal; mature 98%, 100% last year and normal. Soybeans 80% harvested, 94% last year and 85% normal. Sorghum 35% harvested, 93% last year and 75% normal; ripe 97%, 100% last year and normal. Wheat condition good. Pasture and range feed supplies short to mostly adequate. Topsoil moisture adequate. Subsoil moisture short to mostly adequate. Days suitable: 5.7.

**NEVADA:** Mostly Indian summer type weather. Temperatures averaged above normal most areas. No significant precipitation.

Potato and alfalfa hay harvestes continuing, near windup stage. Warm, sunny skies aided last harvesting efforts. Winter grain seeding about completed. Most livestock moved to winter ranges.

**NEW ENGLAND:** Temperatures: Continued a little below normal. Precipitation: well above normal. Reports of over 5.00 in. noted across central Maine, and the rest of the region averaged 1.50 and 2.50 in. Most of the precipitation occurred 23rd, day and night.

Cranberries: 85% harvested, good harvest weather last week, no frost problem, low water supply. Potatoes: harvest virtually complete.

**NEW JERSEY:** Temperatures averaged 5 to 7° below normal. Extremes: 21° at Newton on 21st and 76° at Hammonton on 22nd. Rainfall averaged 1.36 in. north, 1.62 in. central and 1.74 in. south. Heaviest 24 hour total was 1.90 in. at Long Branch on 25th to 26th. Estimated soil moisture, in percent of field capacity, averaged: 93 north, 89 central and 81 south. Four inch soil temperature today averaged: 50 north, 52 central and 55 south.

Fieldwork: 6.4 days suitable. Harvest of hardy late season vegetables continues. Sweet-potato harvest well advanced. Apple harvest nearing completion. Cranberry harvest well advanced. Corn and soybean combining temporarily halted by rainy weather. Fall sown grain and cover crops growing well.

**NEW MEXICO:** Rainfall limited and temperatures averaged about 5° below normal.

Soil moisture conditions continue in adequate supply. Freeze damage has been only light to moderate as of yet. Harvest of fall crops were the main farm activities. Cotton remained in good condition with harvest progressing actively. The alfalfa season winding down as cool weather sets in. The far southern areas well into the sixth cutting. Harvest of corn for grain continuing with about 60% harvested. Grain sorghum harvest approximately 20% complete. Wheat and barley in good condition with most of the crop emerged except for that which had to be reseeded. Harvest of fall lettuce and red chile continuing. Peanut and sugarbeet harvest underway. Sweetpotato harvest nearing completion. Ranges in good condition with most areas reporting a good grass set. Livestock in good condition.

**NEW YORK:** Average temperatures 1 to 8° below normal, rainfall above normal. Rainfall 0.50 in. in west to 1.00 in. in the east, higher elevations 1.00 to 2.00 in. Snow showers and squalls by weekend to lee of Great Lakes with generally 1 to 2 in. but up to 7 in. of snow. Generally a good week for fieldwork.

**NORTH CAROLINA:** Temperatures: 2° below normal along the coast, 7° below normal in the mountains. Precipitation: An average of 2.00 in. in the southeast to 2.31 in. at Raleigh.

Fieldwork: 6.1 days suitable. Soil moisture: 63% very short, 36% short, and 1% adequate. Conditions: Pasture mostly fair; cotton fair to mostly good; soybeans fair to good. Harvest: Cotton 64%, 1980 74%, 41% average; sweet potatoes 88%, 1980 71%, 81% average; sorghum grain 81%, 1980 70%, 72% average; soybeans 22%, 1980 12%, 14% average; corn for grain 92%, 1980 92%, 88% average; peanuts dry 94%, 1980 91%, 84% average; peanuts threshed 84%, 1980 79%, 74% average; apples 96% 1980 76%, 87% average. Plantings: Wheat 39% 1980 42%, oats 61%, 1980 64%, barley 56% 1980 60%, rye 52%, 1980 44%. Phenological stages: Soybeans shedding leaves 80%, 1980 54%. Major farm activities: Harvesting soybeans, combining corn for grain, and seeding fall cover crops.

**NORTH DAKOTA:** Winter arrived as temperatures plunged into single digits and snow occurred in all districts. Up to 10 in. of snow fell in north central portion and 4 in. in portions of central, northeastern and east central. Only north central and northeastern districts had above normal amounts of moisture. Temperatures much below normal in all districts. Coldest in north central district with average temperatures 15° below normal. Extremes: 1° northwest to 75° southeast.

Rain, snow and temperatures well below freezing over the entire State caused more delays in row crop harvest. Sunflower harvest was near last year's weather slowed pace but about 9 days behind average. Sugarbeet harvest temporarily halted by freezing weather. Other crops also behind normal pace. Average of 4.8 days suitable for fieldwork.

General frost will facilitate drying of sunflower and corn. Some damage expected to unharvested potatoes from freeze. Total moisture amounts mostly small. Overall, 38% of state short or very short of topsoil moisture, last year 4%; average 50. Harvest progress through with last year and average; sunflower 48, 45, 67; sugarbeets 66, 95, 97; flax 93, 76, 92; corn grain 39, 70, 73; potatoes 94, 98, 99; dry beans 94, 96, 98; soybeans 59, 93, 94.

**OHIO:** Record setting low temperatures brought the growing season to an end. Low temperatures fell into the 20's Statewide, 17° was the

lowest in the State. Although highs reached into the upper 60's to low 70's early in the week, averages for the 7 days ranged from 3 to 5° below normal in most areas. Growing degree days ranged from the low teens to around 30, 15 to 25 below normal. Above normal rainfall accompanied the cool weather and kept drying rates low. Rain totals were mostly over 0.50 in.

Corn for grain harvest still being slowed by high moisture content. Average moisture of harvested grain 25%. Grain quality has been fair to good, but frost damaged corn has yet to come to elevators. Moisture content of harvested soybeans has been in the 10 to 14% range. Quality of beans was rated fair to good; frost damaged beans have yet to be marketed. Emergence of winter wheat was enhanced by last week's rains. Quality of stands Statewide was rated good. Corn for grain harvested 30%, 75% 1980, 45% average. Soybeans harvested 60%, 95% 1980, 75% average. Sugar beets harvested 30%, 60% 1980, 40% average. Apples picked 85%, 85% 1980, 85% average. Grapes picked 90%, 85% 1980, 90% average. Wheat planted 80%, 95% 1980, 90% average. Wheat emerged 45%, 65% 1980, 55% average. Days favorable: 5.5. Pasture condition fair. Soil moisture 29% short, 59% adequate, 12% surplus.

**OKLAHOMA:** Rainfall ranged from 0.12 in. west central to 1.36 in. east central. Temperatures averaged 8 to 10° below normal. Cool across state. Southern two thirds State began dry out monsoon weather previous week. Wet fields rule with little fieldwork or harvest activity. Topsoil moisture adequate to surplus 100% counties. Wheat planted: 85%, 1981; 75%, 1980; 85%, average. Sorghum mature: 95%, 1981; 85%, 1980; 95%, average. Sorghum harvested: 35%, 1981; 45%, 1980; 50%, average. Cotton open bolls: 85%, 1981; 95%, 1980; 90%, average. Cotton harvested: 10%, 1981; 10%, 1980; 5%, average. Days suitable fieldwork: 2.2.

**OREGON:** Temperatures averaged slightly above normal except for the southern portion, which averaged 6° above normal and the northeastern section which recorded an average of 2° below normal. Eugene in the Willamette Valley reported a trace of precipitation which was the only precipitation throughout the State.

Fieldwork moved ahead rapidly. Winter wheat 89% sown, 85% a year ago. About 54% has emerged compared to 63% last year. Reseeding continuing due to crusting and cheatgrass infestation in Northcentral. Fruit harvest nearly all wrapped up in Hood River area. Filbert harvest continuing, quality good. Cranberry harvest nearing completion. Training of canberries progressing. Potato harvest progressing well. Over 75% of Klamath potato harvest finished. Scattered frost killed many vegetable plants. Harvest in general was about completed. Vegetable seed crops in. Range and pasture conditions fair to good in east and good to excellent in west. Recent moisture helped pasture to green up but cooler temperatures slowing growth. Scattered hard frost in east may affect grass. Fall calving in progress. Livestock condition good.

**PENNSYLVANIA:** Cold outbreaks early in the week and again on 24th interspersed with mild conditions mid-period produced wide temperature variations but averaged 1 to 5° below normal with extremes 75° and 17°. Rainfall beginning, mid-period, and end of week provided 0.50 to 1.10 in. totals with heaviest southwest and extreme northwest.

Five days suitable. Soil moisture adequate to short. Activities: Plowing; planting wheat; hauling manure; tobacco stripping; and harvesting potatoes, ensilage corn, corn for grain, hay crops, soybeans, cabbage, pumpkins, and apples.

Potato harvest 90% complete, last year virtually complete. Soybeans 46% harvested, 54% last year. Corn for grain 44% harvested compared with 51% harvested last year and the average of 31%. Ensilage corn 94% harvested, last year virtually complete. Wheat planting 93% complete, same as last year. Fall plowing 91% complete, last year 93%. Fourth cutting alfalfa 70% complete, last year 71%. Hay quality fair to good. Feed from pasture average to below average.

**PUERTO RICO:** Island average rainfall 2.60 in. or 0.84 in. above normal. Highest total 7.87 in. Temperatures averaged about 81° on Coasts and 78 to 76°. Interior Divisions. Extremes: 96 and 57°.

**SOUTH CAROLINA:** Sunny, mild weather during mid-week became rainy and cool by week's end. Highest temperatures in the 80's mid-week.

Soil moisture very short to short. Six days suitable for fieldwork. Cotton 74% harvested, 80 last year, 61 average. Soybeans fair condition, 91% shedding leaves, 71 years ago, 75 average; 60% mature, 27 last year, 36 average; 14% harvested, 8 last year, 9 average. Winter grazing 49% planted, 77 year ago, 75 average; emerging slowly at 28% compared to 58 last year, 59 average. Cattlemen were forced to move livestock off of poor condition pastures. Fall snap beans poor to fair condition, 43% harvested, 52 year ago. Fall cucumbers poor to fair condition, 68% harvested, 78 last year.

**SOUTH DAKOTA:** Precipitation scattered and light. Mostly under 0.50 in. Several areas received first snow. Four to five in. in southwest and around 1.00 in. in southeast. Temperatures 9° below normal. Extremes: 76 and 3°.

Topsoil moisture mostly short. Adequate in extreme southwest, south central and central counties, and in major portion eastern third of State. Four days suitable. Calf marketings starting. Feed supplies adequate but stock water remains low. Soybeans harvested 76%, 1980 96%, average 88%. Corn harvested 53%, 1980 76%, average 61%. Sorghum harvested 59%, 1980 72%, average 72%. Sunflower harvested 61%, 1980 82%, average 73%.

**TENNESSEE:** High pressure dominated during the first half of the week. Cold air and rains followed the high pressure during the latter part of the week and again on the weekend. Mean temperatures were well below normal. The entire State recorded freezing temperatures.

Soil moisture adequate. Fieldwork: 4.6 days suitable. Cotton 50% picked, 1980 84%, average 19%. Soybeans shedding leaves 90%, 1980 99%, average 84%. Soybeans mature 82%, 1980 90%, average 77%. Soybeans harvested 26%, 1980 47%, average 37%. Corn harvested 68%, 1980 78%, average 50%. Farmers reporting higher than average yields. Burley tobacco 40% stripped, 1980 40%, average 36%. Pasture conditions improved slightly from the previous week but still rated mostly fair. Some supplemental feeding continued and overall cattle conditions still good. Fall plowing 72% complete, 1980 and average 75%. Wheat seeding 50% complete, 1980 65%, average 63%. Oats seeding 77% complete, 1980 and average 83%.

**TEXAS: Weather:** By mid-week, cold front entered northwestern portions. Significant rainfall moved northwest to southeast. By weekend low pressure though helped push another cold front through, rainfall was light, scattered. The precipitation averages were generally above normal. Temperatures averages were 8 to 14° below normal.

**Range and Livestock:** Range, pastures benefited from improving moisture conditions.

Grasses, weeds, making good growth, grazing plentiful except in parts of South Texas, Rio Grande Valley. Livestock remain in good condition, availability of feed for winter good. Insects, disease light.

**Commercial Vegetables:** Rio Grande Valley, harvest of green peppers, cucumbers, melons continued. Cabbage, lettuce, broccoli up to good stands, making excellent progress. Planting of carrots, onions underway. Harvest of grapefruit, early oranges continued, quality, sized excellent. Coastal Bend, fall vegetables progressing well. Tomatoes, cucumbers making good growth. San Antonio-Winter Garden area, vegetable harvest underway as weather permits. Some cucumbers, green peppers harvested although volumes light. East Texas, harvest of sweetpotatoes delayed by wet fields. Quality good, dry fields needed to avoid losses. Trans-Pecos region, harvest of cabbage, chili peppers active. Harvest of green peppers slowed. High Plains, activity light due to wet, cold conditions. Some bell peppers harvested as weather permitted. **Pecan** harvest underway, activity beginning as far north as Cross Timbers.

**Crops:** Rain, cool weather brought halt to most field operations. Rains helpful in promoting growth of small grains, but delayed harvest of cotton, sorghum and slowed maturity of cotton northern third of State. Producers hoping for dry conditions, continued wet weather may hurt cotton, sorghum yields, Plains, portions of Cross Timbers, Blacklands. **Cotton** continued to mature slowly. If conditions remain wet, quality, yields may suffer. Light frost High Plains helped with defoliation. Harvesting expected to become active as fields dry. Cotton condition 3% excellent; 61% good; 32% fair; 4% poor. Harvest behind last year, average. Rains continued to delay **sorghum** harvest, maturity. Dry conditions needed to resume harvest, avoid losses due to excess moisture. **Corn** harvest at standstill due to wet conditions. Yields continue to be good. Harvest expected as fields dry. **Small grains** have benefited from increased moisture, making excellent progress. Early planted fields now providing limited grazing. Because of heavy flooding, erosion Cross Timbers, Blacklands many fields being replanted. **Peanut** harvest slow due to wet fields. Quality, yields may be affected by excessive moisture. **Soybean** maturity slowed by cool, damp weather, many fields ready for harvest. Cotton open bolls 74%, 84% 1980. Cotton harvested 24%, 37% 1980, 32% average. Sorghum turning color 100%, 100% 1980. Sorghum mature 93%, 96% 1980. Sorghum harvested for grain 81%, 88% 1980, 88% average. Wheat planted 75%, 75% 1980, 81% average. Wheat emerged 61%, 60% 1980. Corn for grain harvested 94%, 96% 1980, 95% average. Peanuts harvested 39%, 44% 1980, 66% average. Soybeans harvested 27%, 50% 1980, 43% average. Sugarbeets 14%, 3% harvested 14%, 3% 1980, 27% average. Pecans harvested 6%, 6% 1980, 7% average. Sunflowers 56%, 61% 1980, 68% average. Oats planted 69%, 74% 1980, 74% average.

**UTAH:** Few isolated very light showers latter part period. Accumulated amounts moisture less than 0.10 in. Average temperatures ranged from near normal to 7° below. Soil moisture condition continued to improved.

Few corn silage fields still standing. Apple and potato harvest remain active. Apple sorting and marketing in progress. Some turkeys being readied for slaughter.

**VIRGINIA:** A cold front offshore the first of the week gave way to another cold front passing through the State on 24th. Low pressure built

offshore 25th and spread rain inland over the weekend. Rainfall totals ranged from 0.50 in. in west to over 3.00 in. southeastern areas. Temperatures averaged 2 to 10° below normal.

Farmers continued to be concerned about dry soils and low levels of water in streams and wells. Topsoil moisture was 96% short, 3% adequate but one county reported excess moisture in fields. Statewide, there were 5.7 days suitable for fieldwork. Pasture conditions continued to decline and most areas now judge pastures in fair condition. Most counties between and west of Roanoke and Staunton report pastures in extremely poor condition. Corn for grain 80% combined, 73% 1980, 67% average. Sorghum for grain 33% harvested, 26% 1980, 16% average. Some soybean yields may be reduced as a result of the freeze, 22% harvested, 14% 1980, 12% average. Peanut harvest nearing completion, 95% have been dug, 88% combined; 68% dug, 48% combined in 1980; 78% dug, 57% combined average progress. Cotton harvest has not begun. Small grain seedings: wheat 40%, 36% 1980, 34% average; barley 70% seeded, 66% 1980, 60% average, winter oats 83%, 76% 1980, 68% averaged. Apple and sweetpotato harvests continued, but also nearing completion. Field preparation for additional plantings of small grains continued, but many farmers were waiting for rain before planting. Germination of small grain has been slow due to dry soils.

**WASHINGTON: West:** A much dryer than normal week. Average temperatures were near the expected normals. Harvest of late fall vegetables was active while silage corn harvest neared completion. Other activities included raspberry pruning and strawberry cultivation. Livestock being taken off pasture with local feed adequate.

**East:** No precipitation was reported. Average temperatures were 1 to 2° below the normals. Odessa reported the coldest minimum, 13°, on the 22nd. Apples, field corn, potatoes, grapes, and buckwheat were in various stages of harvest. Fruit warehouses were busy per-sizing fruit. Other activities includes winter wheat seeding, fall cultivation, and weed control. Some growers reseeding winter wheat due to poor stands and heavy cheat grass infestation. Soil moisture adequate, though some rain for the topsoil would be welcome.

**WEST VIRGINIA:** Temperatures well below normal. High 80°, low 16°. Precipitation above normal.

Highest 1.41 in.

Soil moisture short to adequate. Days worked averaged: 5.0. Main activity - corn harvesting. Corn 50% harvested; 60% harvest in 1980. Pasture fair to poor. Wheat and barley seeding complete.

**WISCONSIN:** A cool week as temperatures averaged 11° below normal. Many low temperature records were broken. High temperatures were mostly in the 60's and the lows were mostly in the teens. The high temperature of the week, 66°, was recorded in Racine and Black River Falls on the 21st. The low temperature of 11° was recorded in Lake Thompson on the 24th. Moisture, for the most part, was not heavy. Most districts reported rainfall in the 0.10 to 0.30 in. range. The season's first 1 to 3 inch snowfall occurred on the 22nd. Snowfall of up to 6 in. fell in the Lake Superior snowbelt with Pence reporting 8 in. of snow on the ground.

Fieldwork: 3 days suitable. A combination of wet field conditions and high moisture in the corn have slowed the 1981 corn grain harvest. Harvest 13% complete, 38% 1980, 34% average. Silo filling winding down and was 86% complete, 99% 1980, 99% average. Fall plowing activity continuing and currently 22% complete, 20% 1980, 26% average. The soybean harvest progressing and 18% of the soybean acreage combined, 57% 1980, 43% average. Some hay being made as field and weather conditions permit. Pastures continue to look good, rated 93% of normal, 93% 1980, 78% average. Apple harvest winding down as was the cranberry harvest. Topsoil moisture supplies rated 32% adequate and 68% surplus.

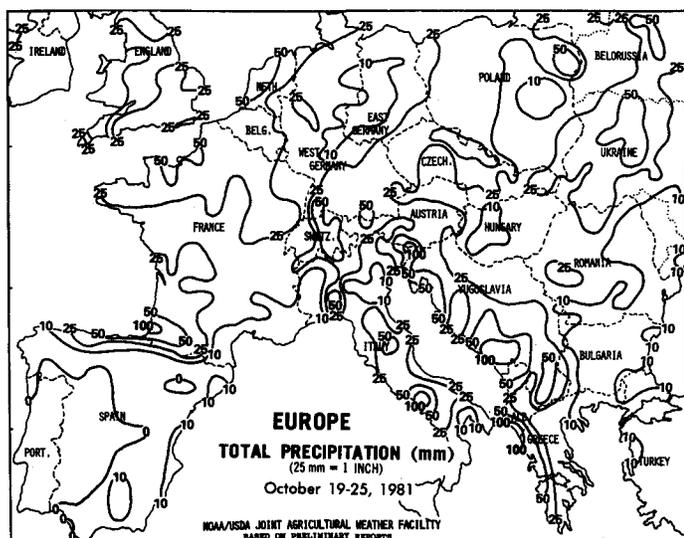
**WYOMING:** Temperatures averaged below normal. Greatest departures, northeastern corner. Warmest temperatures northern areas. Precipitation below normal most sections. Exception northeastern areas. Alva largest amount 0.77 in.

Topsoil, subsoil moisture short 51% State. Average 6 days suitable for fieldwork. Winter wheat mostly good condition. Potato harvest in windup stages. Sugarbeets harvested: 95%; last year 80%; normal 89%. Corn for grain picked: 35%; last year 30%; normal 47%. Yearlings sold or delivered: 50%; last year 55%. Calves sold or delivered: 40%; year ago 40%. Lambs sold or delivered: 50%; year ago 60%. Livestock mostly average or better condition.

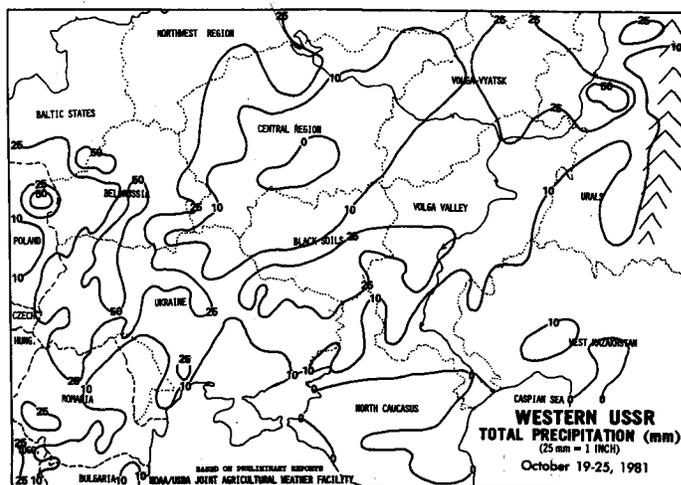
## International Weather and Crop Summary

HIGHLIGHTS  
October 19-25, 1981

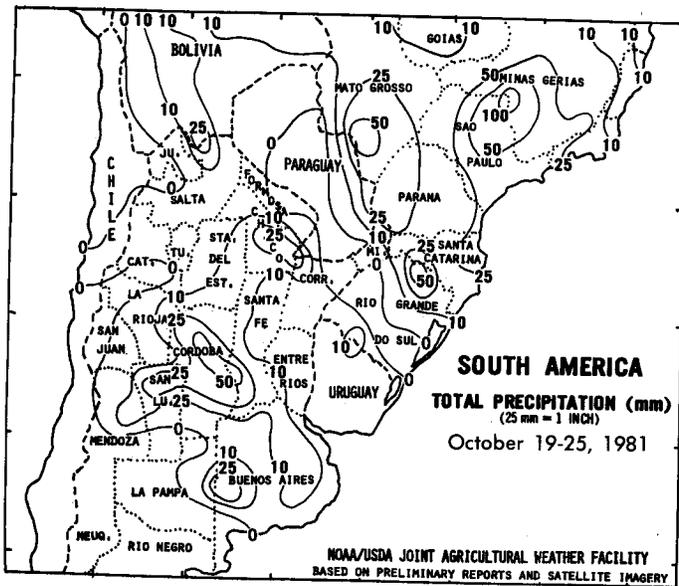
- USSR:** Continued beneficial moisture for most winter grain areas.
- EUROPE:** Conditions remain too wet in many central and western areas.
- NORTHWESTERN AFRICA:** Generous rains in Tunisia and eastern Algeria should allow winter grain sowing.
- SOUTH AFRICA:** Below-normal rainfall continues as corn planting begins.
- SOUTH ASIA:** Beneficial rainfall in southern India.
- EASTERN ASIA:** Rains in China's Shandong Province improve winter grain sowing prospects.
- SOUTHEAST ASIA:** Scattered post-monsoon showers aid rice growth.
- AUSTRALIA:** Favorable harvest weather in Queensland; beneficial rains in Victoria and South Australia; continued dry weather in West Australia.
- SOUTH AMERICA:** Beneficial rains in Argentina but more needed!
- MEXICO:** Sunny weather aids replanting on West Coast, light rain in most other production areas delays some harvesting.



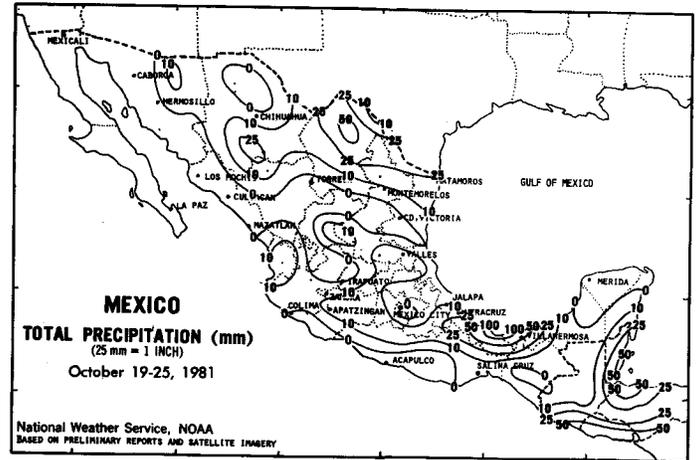
**EUROPE:** Unfavorably wet weather continued over much of central and northwestern Europe. Conditions were somewhat too wet for winter grains in northeastern France and southern West Germany, and have been unfavorable for harvesting of spring-sown crops for several weeks over a broader area. The rains spread northeastward into Poland, further relieving previously dry conditions. However, below-normal temperatures across the north allowed only limited winter grain development. Temperatures rose above normal again in the southeast, and much of Spain and Italy had continued warmer-than-normal weather. A storm developed over Italy at mid-week, dumping mostly beneficial rainfall over much of Italy and western Yugoslavia. Scattered, light rainfall in southeastern Spain was not enough to allow winter grain sowing to begin on a broad scale.



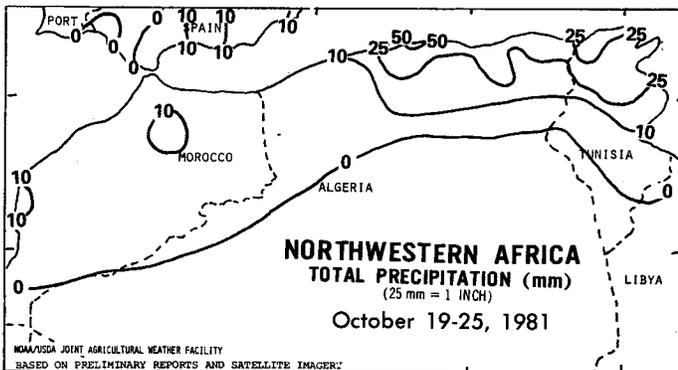
**USSR:** Low-pressure systems from the west maintained an above-normal precipitation pattern across much of European USSR. The moisture was beneficial to winter grains and helped replenish soil moisture in northeastern parts of the belt. Winter grains in drier southeastern areas had adequate moisture for autumn growth. The moisture and occasional sub-freezing conditions hurt unharvested sugarbeets. Temperatures overall edged above normal again, allowing winter grain growth to continue, though at a slow rate across northern parts of the belt. Cotton harvesting was not disrupted much by continued scattered showers.



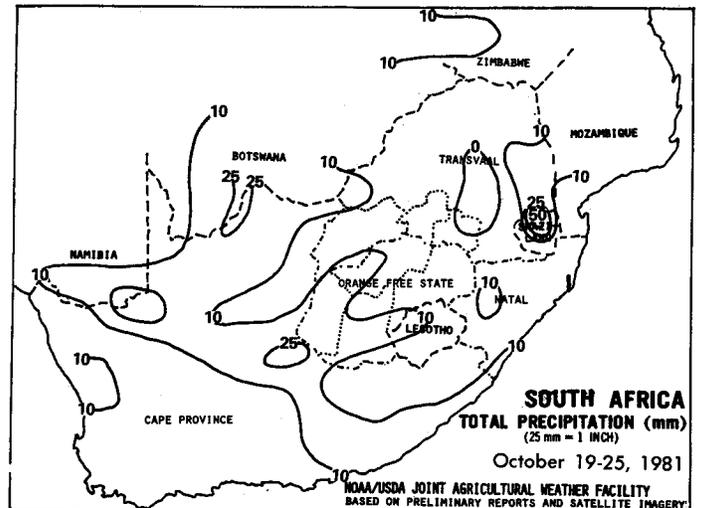
**SOUTH AMERICA:** Substantial rains fell late in the week over southern Santa Fe and central Cordoba, improving topsoil moisture conditions for sowing and early growth of corn, sorghum, and other crops. The much-needed moisture provided at least temporary relief for the wheat crop that had been under stress. Additional rains are needed to prevent further deterioration of crop conditions throughout Argentina's major wheat and corn growing areas. Beneficial showers also occurred over portions of the southern wheat area to aid the wheat crop which is heading. In Brazil, widespread showers fell throughout most crop areas. Only southern Rio Grande do Sul remained dry. Conditions are favorable for crop growth as topsoil moisture supplies have improved in Parana and Sao Paulo. Moisture reserves are adequate in Rio Grande do Sul.



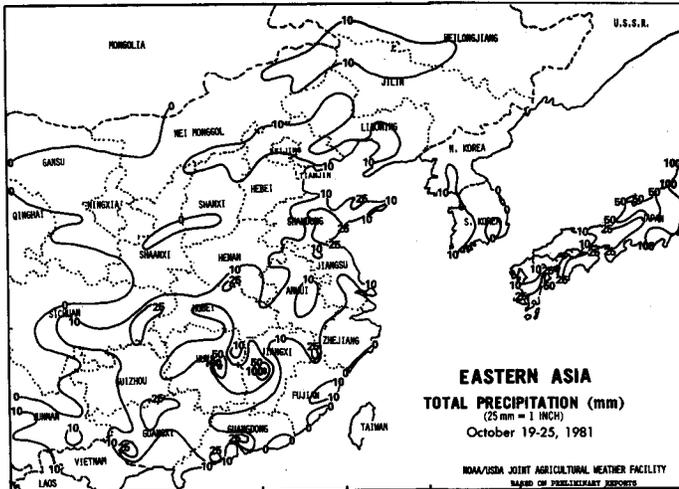
**MEXICO:** Sunny, dry weather dominated the West Coast farming area, allowing replanting of vegetables and salvage harvesting of soybeans and other crops damaged earlier by storm "Lidia." Most other major production areas had scattered light rains which caused minor delays, primarily to harvesting corn and dry beans. Moderate rains drenched parts of the north central, benefiting range and wheatlands. Another tropical storm formed south of Acapulco late in the week. It began drifting northward toward Mexico's southern mountains.



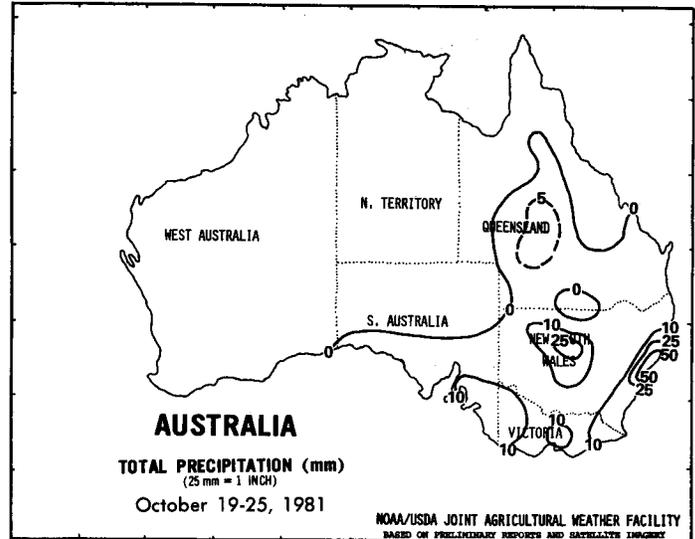
**NORTHWESTERN AFRICA:** A storm developed at mid week in the Mediterranean, spreading beneficial, above-normal rainfall across agricultural areas of Tunisia and central and eastern Algeria. The moisture should allow sowing of winter grain to begin over most of that area. Only light rains fell in agricultural areas of Morocco and western Algeria, where conditions remained too dry for sowing.



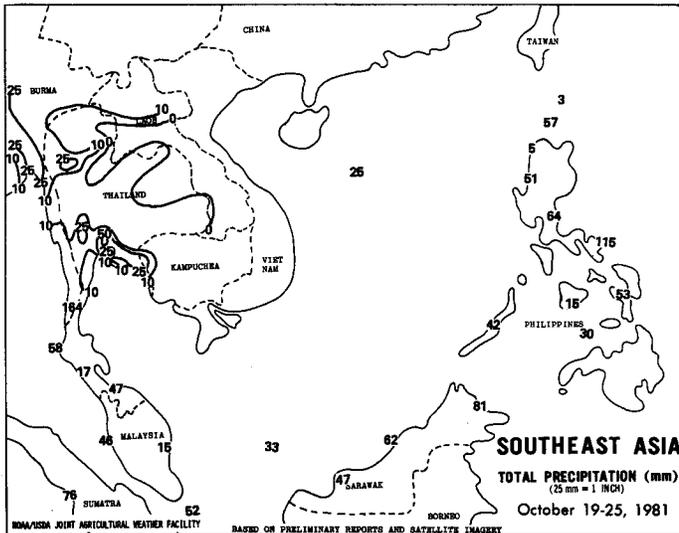
**SOUTH AFRICA:** Little precipitation (0 to 10mm), fell on most of the major corn growing area of the Transvaal and Orange Free State. This area, known as the Maize Triangle, received below-normal rainfall for the past 2 weeks and more rain is needed to improve topsoil moisture conditions for planting and emergence of the corn crop. However, soil moisture losses were kept to a minimum this week, due to below-normal temperatures occurring over the area.



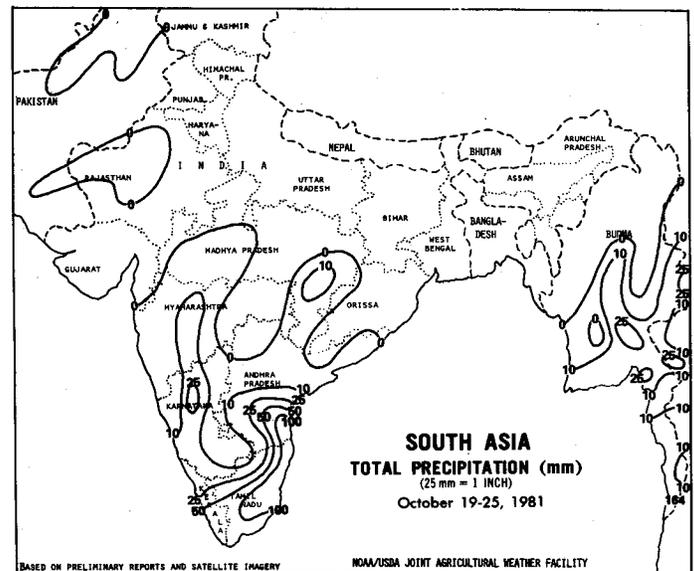
**EASTERN ASIA:** Rainfall slackened somewhat in the Yangtze Valley. Light to moderate rains across the southern half of the winter grain belt maintained favorable growing conditions. Much of Shandong received generous additional rainfall, improving moisture conditions for sowing of winter grains. Colder weather following the rain delayed the onset of sowing. Sub-freezing temperatures occurred throughout the Province, but conditions warmed by week's end. Harvest weather for double-crop rice along the southern China coast remained generally favorable. Rain was mostly light, with only scattered amounts above normal. In South Korea, light rain over most agricultural areas kept soils adequately moist for winter grain while not substantially interfering with rice harvesting.



**AUSTRALIA:** Dry weather returned to grain areas of southern Queensland and northern New South Wales, aiding harvest activity. Seasonal rains benefited more southern grain areas of New South Wales, Victoria, and South Australia, where grain is normally in the heading to early grain-filling stages at this time. In western Australia, dry weather prevailed during the week, but satellite imagery showed an increasing cloud cover late in the weekend which may have produced some beneficial showers. Timely rains early in the growing season helped maintain a favorable yield outlook for West Australia although below-average rainfall in September as well as the past 2 weeks depleted topsoil moisture reserves. Therefore, additional moisture would be extremely beneficial to the grain crop. Temperatures were slightly above normal in Western Australia and below normal in eastern grain areas.



**SOUTHEAST ASIA:** Measurable rainfall in Thailand was limited to isolated showers in the northern highlands, benefiting irrigation supply reservoirs; scattered but locally heavy showers fell in southern areas near Bangkok. These seasonal post-monsoon showers aided late rice growth. Mostly dry weather prevailed elsewhere in Thailand and bordering countries as the zone of monsoon activity shifted southward on its seasonal migration toward northern Australia. Beneficial rains fell over peninsular Thailand, Malaysia, and Indonesia during the week.



**SOUTH ASIA:** Bangladesh and nearly all of northern India remained dry. Rainfall increased in peninsular India, with heavy amounts reported along the coast of Tamil Nadu and southern Andhra Pradesh. Rainfall normally increases in these coastal areas during the northeast monsoon in late autumn. Crop conditions in the south remained good. Light rain in northern Pakistan and western India was caused by a tropical weather system turning northward.

