

WEEKLY WEATHER AND CROP BULLETIN

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

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

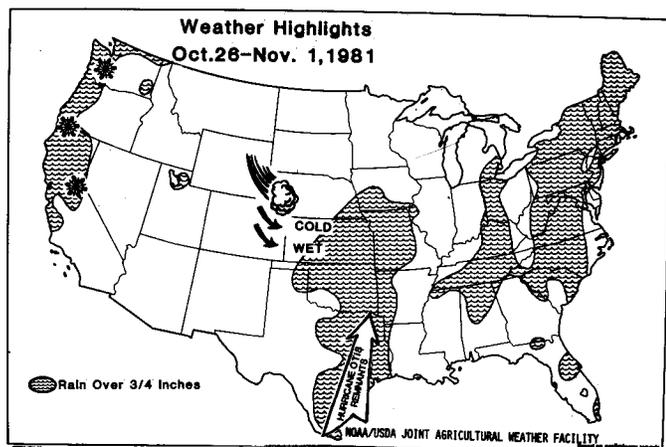
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WASHINGTON, D.C.

Nov. 3, 1981

National Weather Summary

October 26-November 1, 1981



HIGHLIGHTS: General rains fell over the eastern third of the Nation early in the week. The heaviest amounts accumulated from parts of South Carolina northward through central New York and New England. A Pacific storm spread rain (with snow in the mountains) throughout the West except for the extreme Southwest. Late in the week moisture from Hurricane Otis moved across Mexico and combined with Gulf moisture and an intense low pressure system in northern Oklahoma to produce torrential rain in parts of eastern Texas and moderate to heavy showers through the central Plains.

MONDAY...Rain was general over the eastern third of the Nation but the heaviest showers were in western North Carolina and Virginia, and in the Northeast. Heavy showers were widely scattered over the eastern Gulf Coast States. Early morning temperatures were cold through the northern Mississippi Valley but a warming trend began through the central Plains.

TUESDAY...Rain covered the Northeast from Indiana and North Carolina through New England. Thunderstorms developed along the eastern seaboard late in the day. A large Pacific storm began affecting the Pacific Northwest and, by the end of the day, rain (with snow at higher elevations) reached from central California to northern Idaho. Morning temperatures were below freezing again through the northern Plains but southerly winds carried warmer weather northward.

WEDNESDAY...Only a few showers lingered in the Northeast but a major storm moved into the Pacific Northwest. Rain with some heavy showers fell along and ahead of the Pacific cold front and spread through most of California, the central and north-

ern Plateau, and the northern Rockies by the end of the day. Some heavy snow accumulated in the western mountains.

THURSDAY...A storm system moved through the Pacific Northwest and into the northern Plains. Showers lingered well behind the cold front and covered the area from North Dakota through Washington and from central Colorado to central California. Heavy snow fell in some mountain areas, accompanied by brisk northerly winds. Drizzle spread over the mid-Atlantic States while showers and thunderstorms covered the eastern coast of Florida.

FRIDAY...The cold front moved to the northern Mississippi Valley and trailed southwestward through western Texas. Strong southerly winds transported moisture northward ahead of the front and, by late in the day, showers and thunderstorms began from eastern Texas to Kansas. Lighter rain fell along the northern portion of the front and showers of snow or rain covered the central Rockies. Drizzle fell along the east coast from the mid-Atlantic States to Florida and thunderstorms continued over Florida's east coast. The next weather system began dropping rain over Washington and Oregon.

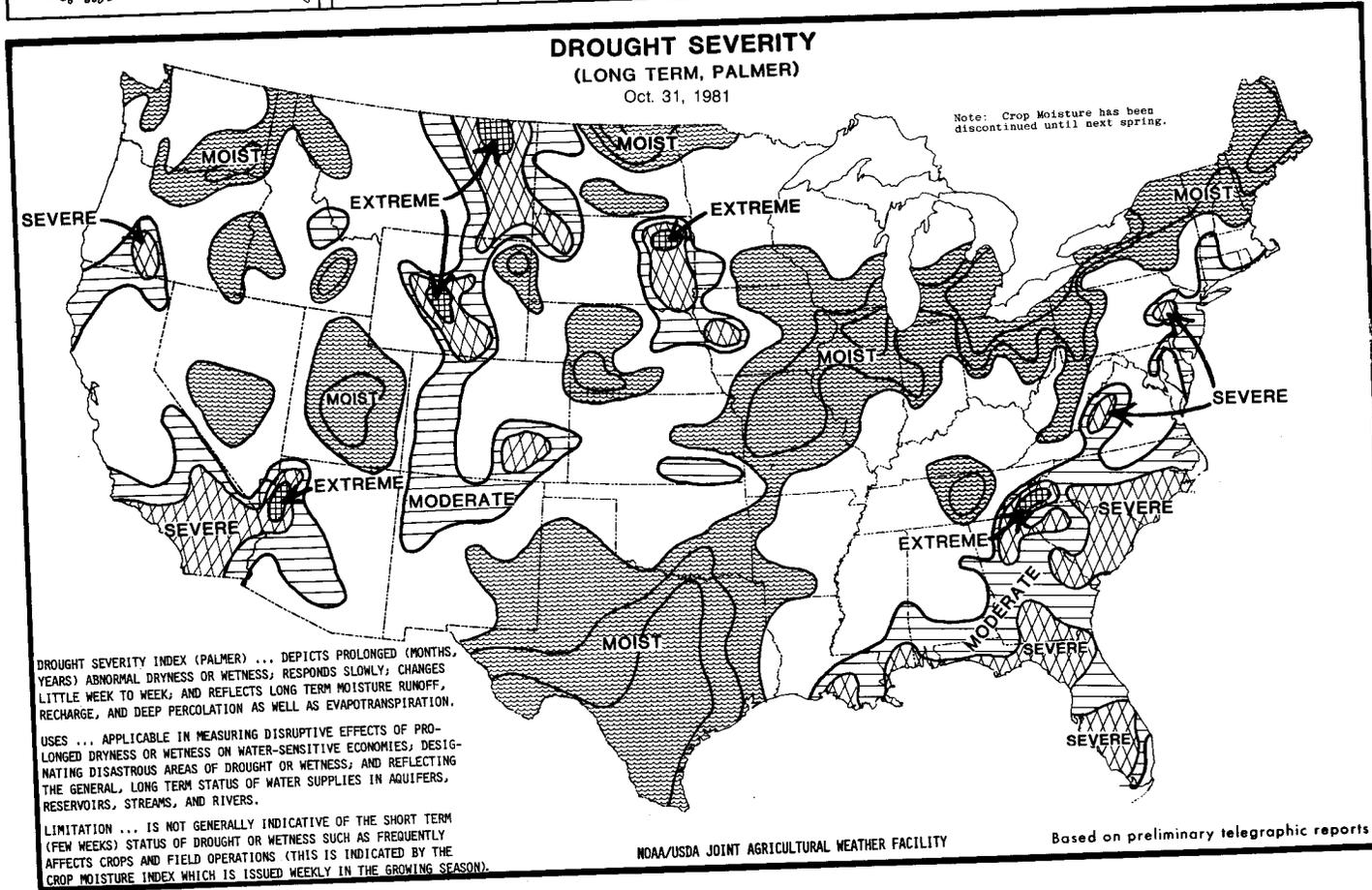
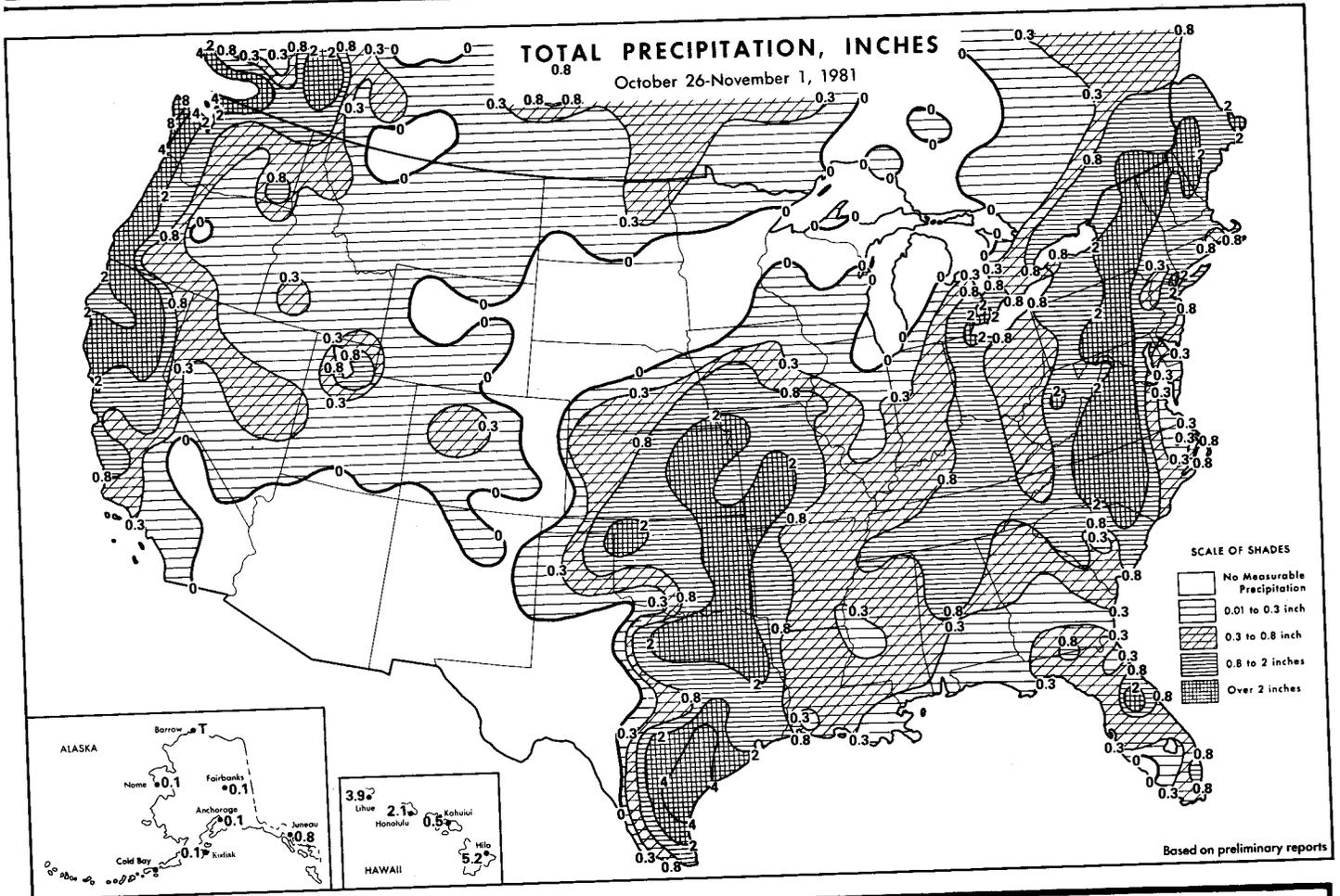
SATURDAY...Moisture from the Gulf of Mexico and across Mexico moved northward through eastern Texas, Oklahoma, and Kansas, western Arkansas, and most of Missouri. The slow-moving frontal system triggered moderate-to-heavy showers and thunderstorms through the moist air and lighter showers in the Texas Panhandle, and southern Rockies. Light showers also extended into Wisconsin. Drizzle continued from Virginia to Georgia, with showers and thunderstorms in Florida.

SUNDAY...An intense, nearly stationary, low pressure system centered along the Kansas-Oklahoma

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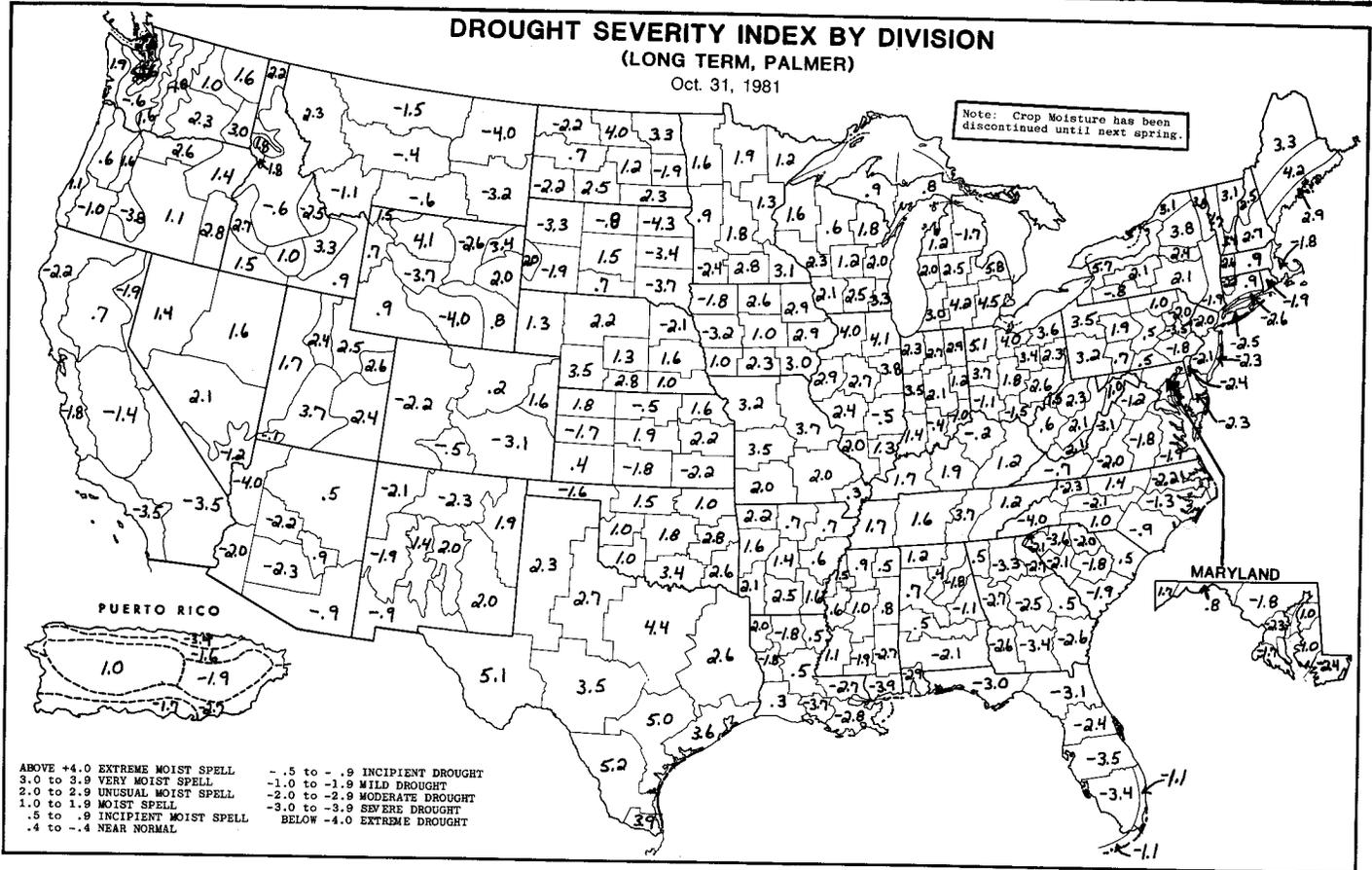
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DROUGHT SEVERITY INDEX BY DIVISION (LONG TERM, PALMER)

Oct. 31, 1981

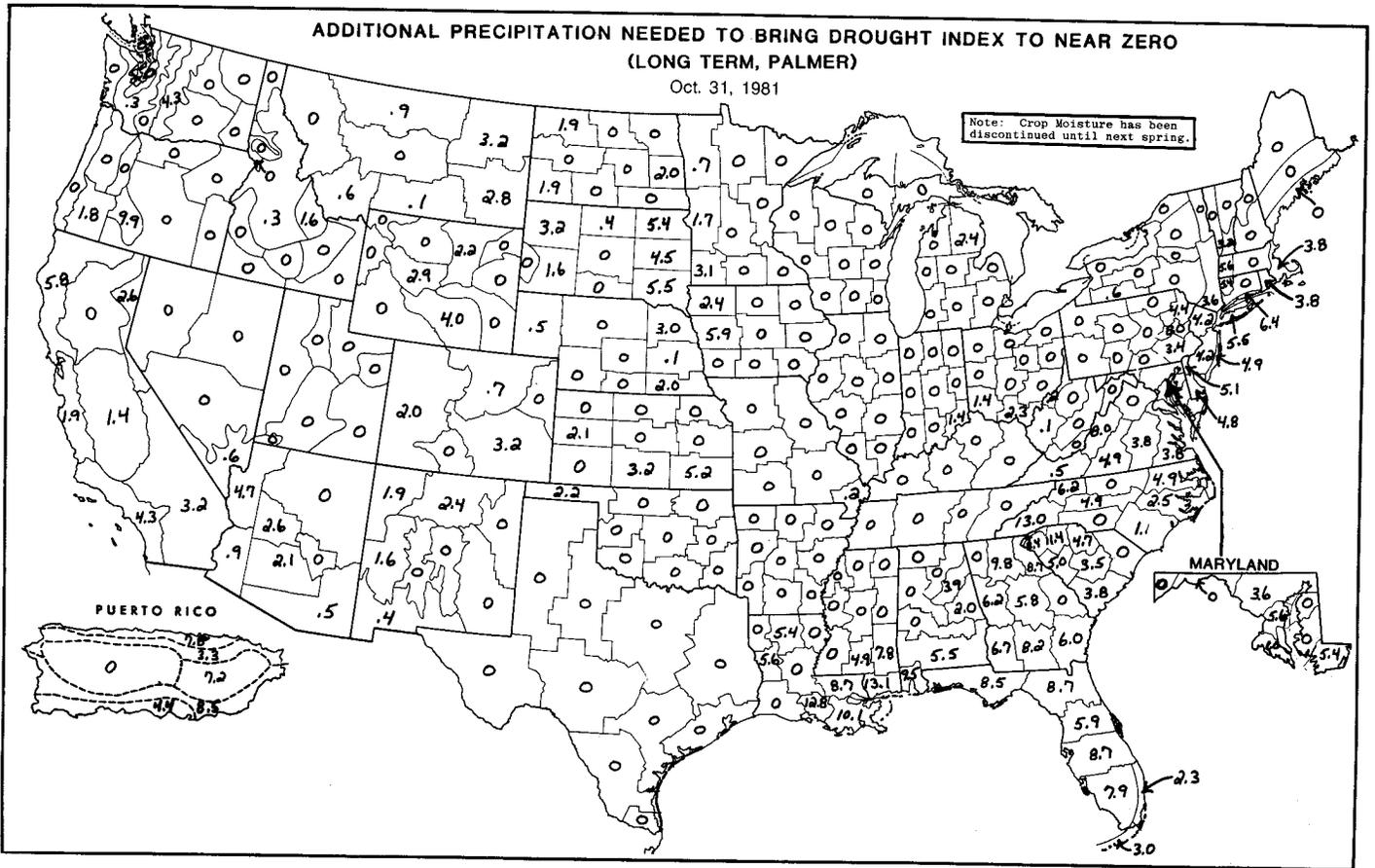
Note: Crop Moisture has been discontinued until next spring.

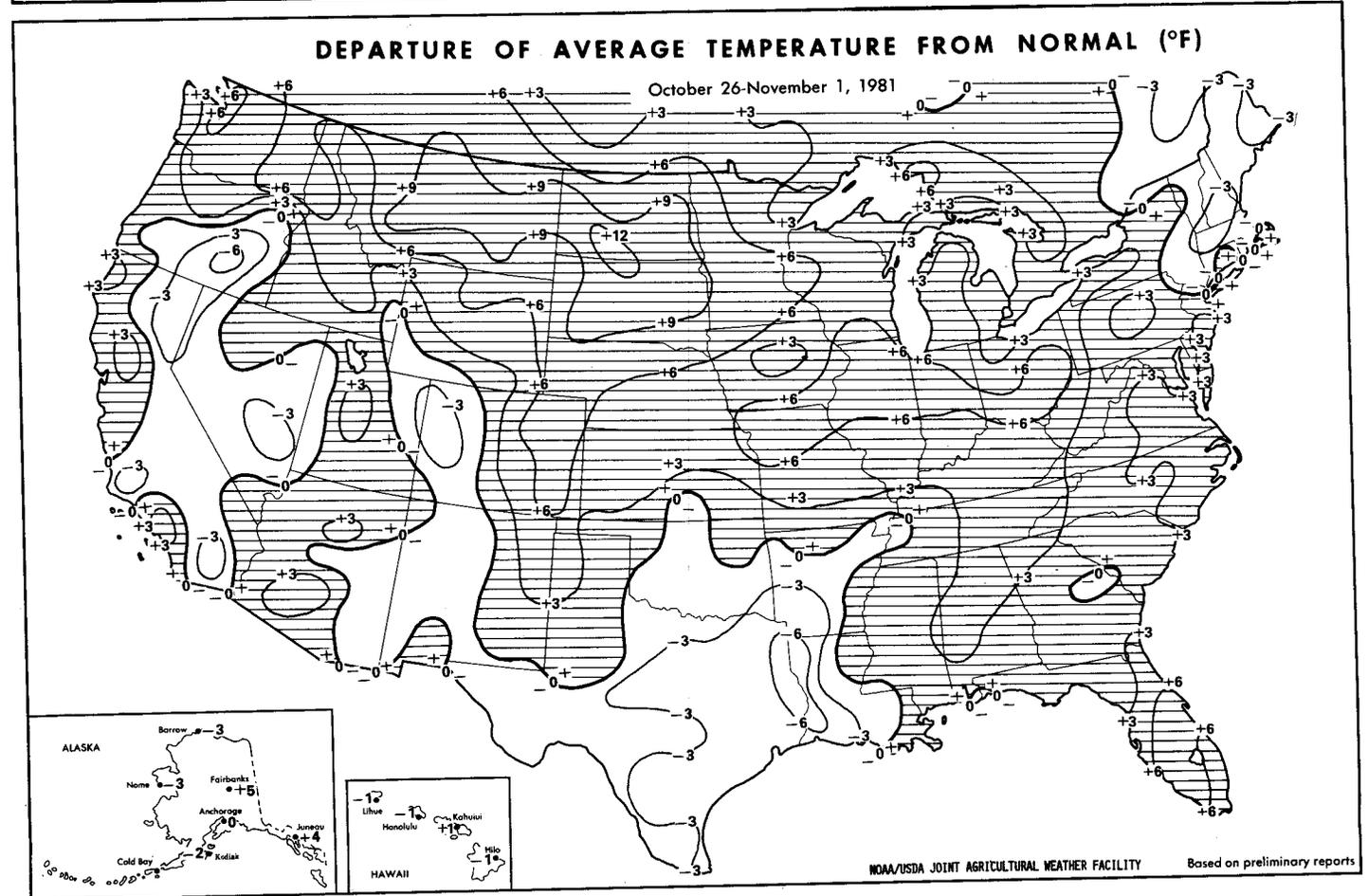
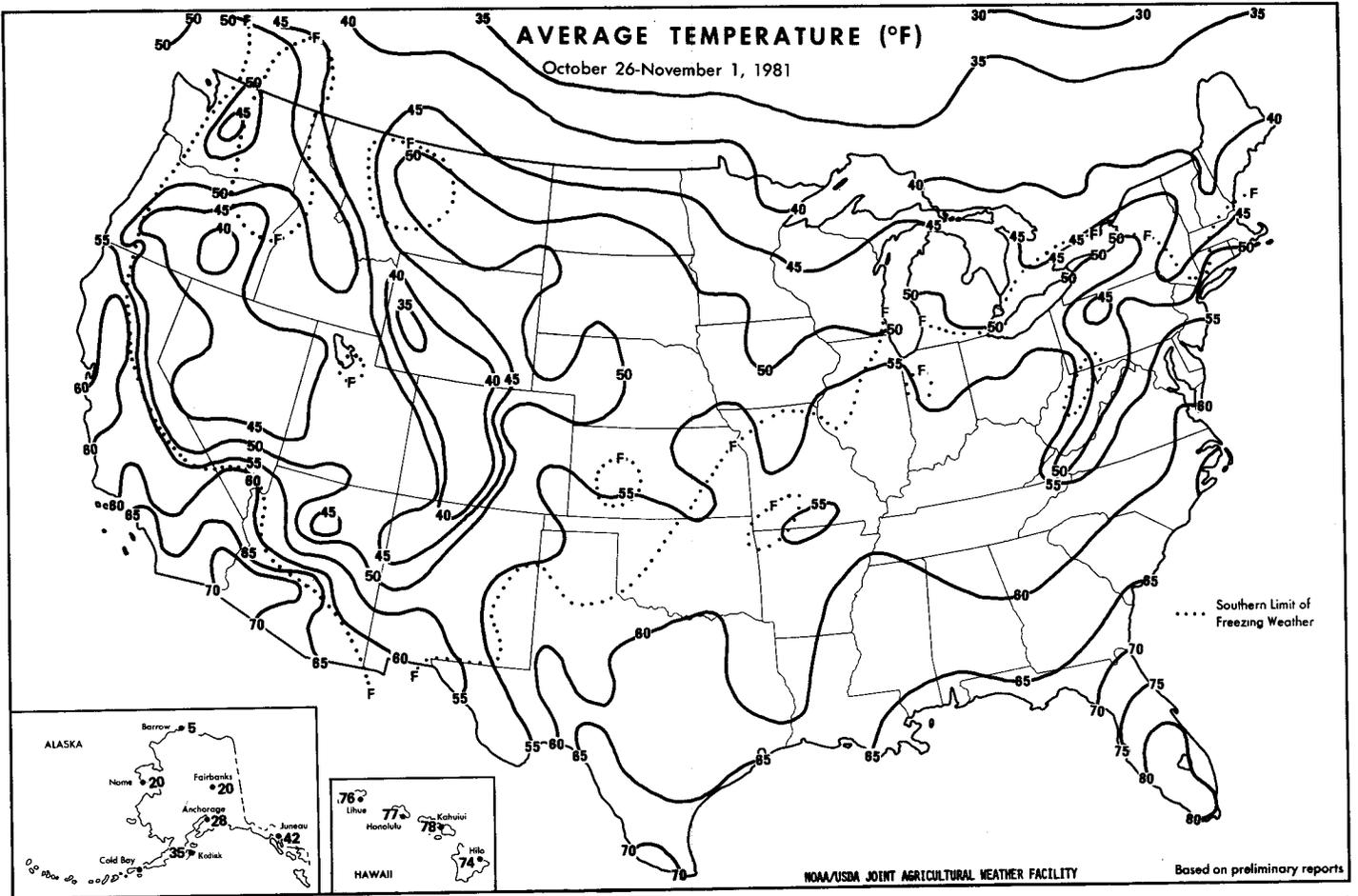


ADDITIONAL PRECIPITATION NEEDED TO BRING DROUGHT INDEX TO NEAR ZERO (LONG TERM, PALMER)

Oct. 31, 1981

Note: Crop Moisture has been discontinued until next spring.





Weather Data for the Week Ending Nov. 1, 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
AL BIRMINGHAM	71	50	78	41	61	3	1.1	.5	1.1	5.9	91	34.5	78	86	58	0	0	1	1
AL MOBILE	77	55	83	47	66	2	.2	.3	.2	5.2	54	49.7	85	95	56	0	0	1	0
AL MONTGOMERY	74	55	78	47	64	4	.1	.6	.2	5.0	72	39.1	85	94	64	0	0	1	0
AK ANCHORAGE	33	24	35	13	28	0	.1	.2	.1	5.6	137	18.5	146	89	70	0	7	0	0
AK BARROW	8	1	11	-3	5	-3	.1	.2	.1	.8	80	18.5	146	89	70	0	7	0	0
AK FAIRBANKS	25	15	33	2	20	5	.1	0	.1	1.7	89	8.8	91	83	66	0	7	2	0
AK JUNEAU	46	37	59	35	42	4	.8	.8	.3	16.5	110	43.9	98	91	66	0	0	6	0
AK KODIAK	41	29	51	16	35	-2	.1	1.3	.1	10.4	81	55.4	119	75	43	0	4	2	0
AK NOME	25	14	32	8	20	-3	.1	.3	.1	2.7	68	14.7	104	72	55	0	7	3	0
AZ FLAGSTAFF	56	32	63	24	44	2	0	.3	0	3.1	91	19.5	120	67	26	0	5	0	0
AZ PHOENIX	83	57	88	48	70	4	0	.1	0	1.5	136	5.9	105	40	12	0	0	0	0
AZ TUCSON	79	49	87	35	64	0	0	.1	0	1.1	52	13.3	140	42	13	0	0	0	0
AZ WINSLOW	65	35	63	26	50	-2	0	.1	0	2.0	125	8.2	112	72	20	0	0	0	0
AZ YUMA	83	58	92	50	71	0	0	.1	0	0	0	1.4	52	45	20	1	0	0	0
AR FORT SMITH	68	44	78	33	56	-2	1.2	.4	.7	8.6	121	38.0	104	96	49	0	0	2	1
AR LITTLE ROCK	67	48	75	42	58	0	.6	.1	.6	8.4	122	40.3	100	88	64	0	0	2	1
CA BAKERSFIELD	71	49	77	44	60	-2	.1	.1	.1	.8	200	5.2	118	77	37	0	0	1	0
CA EUREKA	64	48	67	45	56	3	1.7	.7	.8	4.7	118	23.7	85	90	63	0	0	2	2
CA FRESNO	68	47	76	39	58	-2	.5	.3	.4	.5	100	8.0	108	96	49	0	0	3	0
CA LOS ANGELES	75	56	89	52	66	2	.1	.2	.4	100	7.0	84	65	35	0	0	1	0	
CA RED BLUFF	68	48	81	33	58	-2	2.0	1.5	1.0	4.2	247	20.5	131	89	49	0	0	2	2
CA SAN DIEGO	73	59	82	54	66	2	.1	0	.1	.1	25	8.6	130	79	46	0	0	1	0
CA SAN FRANCISCO	66	52	73	47	59	1	1.9	1.6	1.2	2.7	208	14.9	110	83	49	0	0	3	2
CA STOCKTON	71	47	78	40	59	0	1.2	.9	.9	1.5	150	10.7	108	93	45	0	0	1	1
CO DENVER	65	39	74	35	52	5	.1	.1	.1	1.2	50	11.9	83	72	20	0	0	1	0
CO GRAND JUNCTION	55	36	65	28	45	-3	.2	.1	.1	2.4	133	7.5	112	81	38	0	2	0	0
CO PUEBLO	71	34	79	26	53	4	.1	.2	.7	.7	41	7.1	61	71	21	0	2	0	0
CT BRIDGEPORT	57	46	65	41	51	-1	1.3	.5	.8	8.8	147	26.6	84	86	63	0	0	2	1
CT HARTFORD	57	42	67	35	49	1	1.1	.3	.8	9.9	146	28.9	82	79	49	0	0	2	1
DC WASHINGTON	65	53	74	50	59	4	1.5	.8	.8	6.0	98	28.6	86	93	72	0	0	2	2
FL APALACHICOLA	76	58	80	51	67	0	.2	.2	.2	2.9	24	32.7	63	81	60	0	0	1	0
FL DAYTONA BEACH	83	70	87	67	77	7	.9	0	.4	8.8	68	34.1	73	93	65	0	0	5	0
FL FORT MYERS	89	73	91	69	81	7	.1	.6	.7	7.2	54	50.8	99	100	60	3	0	0	0
FL JACKSONVILLE	78	63	87	53	70	4	.4	.3	.3	3.1	24	28.0	56	96	68	0	0	4	0
FL KEY WEST	85	77	88	74	81	3	.6	.3	.3	8.1	62	23.4	65	93	71	0	0	4	0
FL MIAMI	85	74	88	72	79	4	.9	.5	.4	16.6	95	48.9	87	90	61	0	0	4	0
FL ORLANDO	86	68	91	65	77	6	2.5	2.0	2.0	11.5	100	42.2	88	96	58	2	0	5	0
FL TALLAHASSEE	75	56	79	49	65	1	.3	.2	.2	6.8	69	43.4	79	99	59	0	0	2	0
FL TAMPA	82	68	85	64	75	4	.6	.2	.5	6.9	75	35.0	76	100	66	0	0	3	0
FL WEST PALM BEACH	84	71	85	69	78	3	.5	.9	.3	11.4	60	43.2	76	92	64	0	0	5	0
GA ATLANTA	68	49	74	46	59	1	.1	.5	.1	8.3	138	34.0	83	99	68	0	0	1	0
GA AUGUSTA	70	46	75	42	58	-1	.8	.3	.7	3.7	67	34.8	93	99	59	0	0	2	1
GA MACON	71	51	76	42	61	0	.2	.2	.2	6.2	111	39.0	102	97	61	0	0	2	0
GA SAVANNAH	75	56	84	50	65	3	.4	.1	.3	4.2	48	35.3	77	94	52	0	0	2	0
HI HILO	81	67	83	64	74	-1	5.2	2.4	2.7	24.0	126	8.3	50	90	63	0	0	5	3
HI HONOLULU	84	70	86	68	77	-1	2.1	1.6	.8	2.7	123	8.3	50	90	63	0	0	7	3
HI KAHULUI	84	71	89	68	78	-1	.5	.1	.5	1.9	119	8.3	50	90	63	0	0	5	3
HI LIHUE	83	68	85	64	76	-1	.5	.1	.5	1.9	119	8.3	50	90	63	0	0	5	3
ID BOISE	60	38	68	32	49	2	3.9	2.8	1.4	7.4	123	10.2	110	78	36	0	1	6	3
ID LEWISTON	59	44	68	33	52	5	.2	.1	.2	1.2	100	10.2	110	78	36	0	1	2	0
ID POCATELLO	57	34	69	25	46	3	.3	0	.2	2.4	120	11.3	103	89	52	0	0	3	0
IL CAIRO	67	49	75	40	58	2	.6	.1	.6	4.0	62	36.5	92	79	39	0	3	2	0
IL CHICAGO	65	42	75	31	53	5	.1	.5	.1	5.2	96	35.6	127	90	52	0	1	0	0
IL MOLINE	64	42	72	28	53	4	.2	.3	.2	10.3	154	33.5	103	90	55	0	2	2	0
IL PEORIA	67	46	75	35	57	8	.1	.4	.1	3.3	54	36.6	117	88	54	0	0	2	0
IL ROCKFORD	64	41	74	29	52	6	.1	.6	.1	8.3	115	32.6	99	90	49	0	3	0	0
IL SPRINGFIELD	67	46	75	34	56	6	.6	0	.5	4.3	65	44.3	142	91	55	0	0	2	1
IN EVANSVILLE	68	46	77	35	57	4	.8	.2	.8	4.4	80	37.8	106	87	56	0	0	2	1
IN FORT WAYNE	61	43	71	34	52	4	.5	.2	.5	6.9	123	33.5	108	93	63	0	0	2	0
IN INDIANAPOLIS	66	45	75	32	55	5	.5	.1	.3	4.4	79	33.2	101	89	58	0	1	2	0
IN SOUTH BEND	64	43	72	36	53	6	.1	.6	.1	5.1	81	34.1	109	97	55	0	0	2	0
IA BURLINGTON	65	45	73	32	55	5	.7	.1	.6	8.3	119	41.3	131	87	54	0	1	2	1
IA DES MOINES	63	43	70	23	53	5	1.4	1.0	.8	5.0	91	28.4	99	81	51	0	1	3	2
IA DUBUQUE	61	40	69	28	51	5	.2	.4	.2	8.7	113	23.3	118	85	41	0	0	1	1
IA SIOUX CITY	64	39	68	27	51	5	.1	.2	.1	4.0	87	18.3	76	94	46	0	1	1	0
KS CONCORDIA	65	45	74	31	55	4	1.7	1.4	1.5	5.1	98	31.9	122	91	52	0	1	3	1
KS DODGE CITY	65	45	78	35	55	3	1.1	.8	1.1	5.7	158	23.3	118	85	41	0	0	1	1
KS GOODLAND	67	35	82	30	51	4	.6	.4	.6	1.1	42	20.8	130	79	25	0	2	1	1
KS TOPEKA	68	46	75	31	57	5	2.1	1.7	1.5	8.3	134	38.0	119	86	55	0	1	3	2
KS WICHITA	62	45	72	30	54	0	1.9	1.5	1.3	8.0	123	25.3	88	93	68	0	1	2	2
KY LEXINGTON	67	48	73	40	57	5	1.0	.4	1.0	4.3	86	31.2	83	94	62	0	0	2	1
KY LOUISVILLE	69	46	76	36	57	5	.6	0	.6	4.9	88	29.5	80	93	54	0	0	1	1
LA BATON ROUGE	73	52	82	43	63	-1	.5	.1	.5	5.5	82	36.9	81	95	60	0	0	1	1

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

+100 = NORMAL & ACTUAL NEAR THE SAME

Weather Data for the Week Ending Nov. 1, 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	
LAKE CHARLES	71	50	78	40	60	-5	.2	-	.6	-	6.5	82	46.2	100	98	59	0	0	2	0
NEW ORLEANS	75	55	81	44	65	-1	T	-	.5	-	6.9	84	48.2	101	97	63	0	0	1	0
SHREVEPORT	69	44	78	36	57	-6	.6	-	.1	-	9.4	152	39.4	106	99	59	0	0	2	0
ME CARIBOU	45	29	50	23	37	-3	1.2	-	.4	-	8.4	120	40.6	136	93	60	0	6	4	1
PORTLAND	51	35	56	27	43	-2	1.3	-	.4	-	11.0	164	39.3	121	93	61	0	4	3	1
MD BALTIMORE	61	49	69	44	55	2	1.0	-	.4	-	5.9	98	27.7	82	87	61	0	0	2	1
MA BOSTON	55	43	66	37	49	-3	1.0	-	.2	-	6.0	95	24.6	73	92	68	0	0	3	0
CHATHAM	55	47	61	43	51	-1	1.1	-	-	-	7.9	-	34.1	-	88	77	0	0	2	1
MI ALPENA	55	34	67	27	44	2	T	-	.4	T	5.4	102	19.1	81	99	61	0	2	1	0
DETROIT	59	40	67	35	50	2	1.6	1.0	-	1.5	9.4	192	29.9	109	95	65	0	0	2	1
FLINT	58	36	68	30	47	1	.6	-	.1	-	10.7	214	31.7	122	97	66	0	2	2	1
GRAND RAPIDS	63	39	71	31	51	4	0	-	.6	0	12.2	197	41.4	149	90	54	0	1	0	0
HOUGHTON LAKE	57	36	65	29	47	4	.1	-	.5	-	4.6	74	27.3	110	98	51	0	3	1	0
LANSING	60	38	69	30	49	3	.1	-	.4	-	9.3	182	29.1	111	99	69	0	1	1	0
MARQUETTE	51	33	62	16	42	3	T	-	.6	T	6.7	92	28.2	92	96	55	0	3	0	0
MUSKEGON	61	40	70	32	51	4	0	-	.6	0	8.7	143	28.4	108	96	56	0	1	0	0
SAULT STE. MARIE	50	30	56	24	40	-1	T	-	.7	T	6.7	97	24.3	91	97	61	0	5	0	0
MN DULUTH	52	33	63	14	42	3	T	-	.5	T	6.0	105	26.3	97	90	53	0	4	0	0
INT'L FALLS	51	31	65	11	41	4	T	-	.3	T	7.8	147	20.8	87	94	61	0	4	1	0
MINNEAPOLIS	61	37	65	23	49	5	T	-	.3	T	4.2	89	25.0	104	85	41	0	2	0	0
ROCHESTER	59	37	65	23	48	5	.1	-	.2	.1	5.2	98	31.6	122	80	39	0	2	2	0
SAINT CLOUD	58	31	64	16	45	4	T	-	.3	T	5.7	127	23.9	96	90	46	0	4	0	0
MS JACKSON	73	51	80	40	62	1	T	-	.6	T	8.7	158	40.1	98	96	59	0	0	1	0
MERIDIAN	75	51	80	41	63	3	.4	-	.1	.4	5.0	89	35.3	83	92	54	0	0	1	0
MO COLUMBIA	66	45	76	33	56	3	1.7	1.1	-	.9	6.0	74	44.9	130	95	57	0	0	3	2
KANSAS CITY	67	47	73	30	57	5	1.3	.8	-	.7	7.5	97	39.5	116	78	49	0	1	2	2
SAINT LOUIS	66	47	76	38	56	3	.5	-	.1	.5	6.6	116	41.3	132	96	57	0	0	1	1
SPRINGFIELD	67	44	75	30	56	2	2.0	-	1.4	1.4	9.4	119	40.2	114	84	47	0	1	2	2
MT BILLINGS	62	42	72	31	52	8	.1	-	.1	.1	1.5	60	15.2	118	72	31	0	1	1	0
GLASGOW	61	34	68	26	48	8	T	-	.1	T	1.4	100	8.1	76	78	36	0	2	1	0
GREAT FALLS	62	43	70	33	52	10	T	-	.1	T	1.5	79	13.6	101	64	31	0	0	1	0
HAVRE	62	35	73	28	49	9	.1	-	.1	.1	1.8	100	9.3	85	87	40	0	3	1	0
HELENA	60	37	71	31	49	9	.2	-	.1	.2	1.7	106	12.9	129	78	35	0	1	1	0
KALISPELL	53	32	62	25	43	6	.1	-	.1	.1	.6	25	15.5	111	95	58	0	4	1	0
MILES CITY	65	35	73	28	50	8	T	-	.1	T	2.1	105	9.7	75	91	31	0	2	1	0
MISSOULA	55	33	60	25	44	5	T	-	.2	T	1.7	85	14.3	127	95	51	0	3	1	0
NE GRAND ISLAND	64	40	73	31	52	4	.7	-	.6	.7	2.9	83	20.4	91	91	39	0	1	1	1
LINCOLN	66	43	71	26	54	6	1.3	1.1	-	1.3	4.7	104	21.1	85	90	51	0	1	1	1
NORFOLK	64	39	72	32	52	5	.1	-	.1	.1	2.2	56	19.0	83	90	40	0	1	1	0
NORTH PLATTE	67	31	75	24	49	4	.2	-	0	.2	1.0	31	21.8	114	92	31	0	4	1	0
OMAHA	62	44	67	32	53	5	1.3	1.0	-	1.3	3.7	71	25.9	93	84	55	0	1	1	1
VALENTINE	69	33	79	23	51	7	0	-	.1	0	2.9	121	17.3	101	84	24	0	3	0	0
NV ELY	54	26	63	19	40	-1	.7	-	.6	.6	4.0	364	9.9	150	80	38	0	6	2	1
LAS VEGAS	73	50	82	44	62	1	T	-	.1	T	.4	57	2.8	80	41	17	0	0	1	0
RENO	60	31	74	22	45	-1	.3	-	.2	.3	.6	75	3.4	60	87	33	0	3	1	0
WINNEMUCCA	60	29	72	24	44	1	.2	-	0	.2	1.4	117	5.5	82	81	30	0	5	2	0
NH CONCORD	52	33	61	22	42	-2	1.5	.8	-	.7	11.2	187	38.4	132	99	65	0	4	3	2
NJ ATLANTIC CITY	61	49	72	45	55	3	.5	-	.5	.4	4.9	72	-	-	99	77	0	0	3	0
TRENTON	59	48	73	41	53	1	.8	-	.1	.5	6.5	107	34.1	101	81	63	0	0	2	0
NM ALBUQUERQUE	67	36	77	29	51	-1	T	-	.1	T	1.8	120	7.3	103	58	19	0	4	0	0
ROSWELL	73	40	81	34	57	2	0	-	.2	0	3.8	131	24.3	236	78	19	0	0	0	0
NY ALBANY	54	35	64	25	45	-2	1.6	1.0	-	1.0	7.1	115	25.4	91	98	60	0	4	3	1
BINGHAMTON	55	41	66	33	48	3	2.5	1.8	-	1.1	8.3	132	26.3	83	89	66	0	0	3	3
BUFFALO	57	44	64	37	51	4	1.3	.5	-	.6	7.7	117	31.4	106	93	62	0	0	3	2
NEW YORK	57	49	66	42	53	-1	1.1	-.3	-	.6	6.4	98	28.3	82	84	63	0	0	2	1
ROCHESTER	56	43	64	38	50	2	1.3	.7	-	.7	8.8	166	30.4	116	92	69	0	0	3	2
SYRACUSE	59	43	69	35	51	3	3.8	3.1	-	1.8	12.3	208	29.3	97	90	58	0	0	3	3
NC ASHEVILLE	64	44	70	37	54	2	.9	-	.2	.9	3.6	51	28.6	73	99	64	0	0	1	1
CHARLOTTE	67	50	74	44	59	2	2.0	1.4	-	1.9	7.5	119	30.8	83	85	57	0	0	2	2
GREENSBORO	65	50	75	46	58	3	2.1	1.5	-	1.1	10.0	149	35.2	99	87	56	0	0	2	2
HATTERAS	71	61	80	58	66	5	1.1	-.1	-	.9	4.0	37	41.7	89	95	73	0	0	6	1
RALEIGH	66	50	76	46	58	2	2.0	1.4	-	1.8	7.3	107	30.5	83	88	62	0	0	2	1
WILMINGTON	72	55	81	51	64	3	.4	-	.2	.4	2.4	26	37.8	80	92	63	0	0	2	0
ND BISMARCK	58	36	66	27	47	7	T	-	.1	T	2.4	109	13.1	86	82	35	0	3	1	0
FARGO	58	36	66	27	47	8	T	-	.2	T	3.9	130	16.5	89	81	48	0	3	0	0
WILLISTON	64	34	73	29	49	10	T	-	.1	T	1.2	60	10.4	76	83	36	0	3	0	0
OH AKRON-CANTON	66	45	71	38	55	7	.3	-	.2	.3	4.9	96	35.9	118	84	50	0	0	1	0
CINCINNATI	67	44	74	32	55	4	.9	-	.3	.8	3.7	74	29.6	89	88	57	0	1	2	1
CLEVELAND	63	44	69	40	54	5	.3	-	.3	.2	9.1	163	33.8	110	81	55	0	0	2	0
COLUMBUS	65	43	70	38	54	5	.5	-	0	.5	3.7	82	33.4	104	86	58	0	0	2	0
DAYTON	66	46	73	39	56	6	1.7	1.2	-	.9	8.0	178	37.5	126	89	61	0	0	2	2
TOLEDO	60	41	68	34	50	2	2.0	1.4	-	1.9	10.9	222	34.7	127	99	69	0	0	2	1
YOUNGSTOWN	62	42	67	35	52	4	.3	-	.4	.2	6.3	111	30.6	94	87	54	0	0	2	0
OK OKLAHOMA CITY	66	46	75	35	56	-1	1.6	1.1	-	1.5	9.2	144	36.5	125	91	53	0	0	2	1

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

Weather Data for the Week Ending Nov. 1, 1981

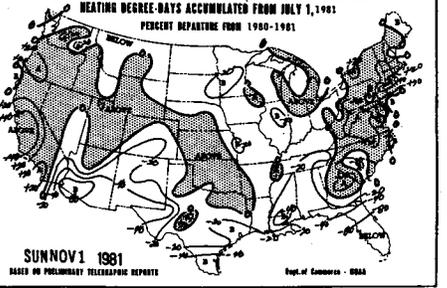
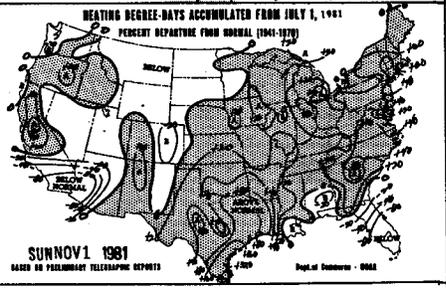
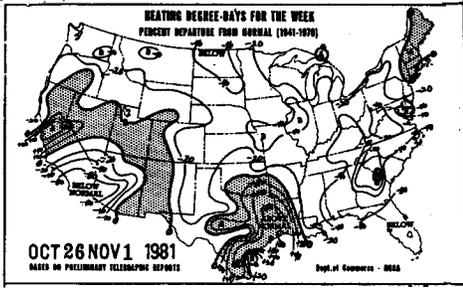
STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Aug. 31	PCT. NORMAL SINCE 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
OR TULSA	69	48	75	36	59	1	3.3	2.7	3.1	10.0	130	34.8	103	96	55	0	0	2	1
OR ASTORIA	59	47	67	41	53	3	3.4	1.4	1.5	12.0	120	46.2	99	86	69	0	0	5	4
OR BURNS	55	29	61	19	42	0	.2	-.1	.1	1.7	121	9.0	103	82	49	0	5	3	0
OR MEDFORD	59	41	68	35	50	1	.3	-.3	.2	1.8	64	8.1	57	93	57	0	0	3	0
OR PENDLETON	63	44	73	36	53	6	.2	-.1	.1	2.2	122	11.2	115	86	40	0	0	3	0
OR PORTLAND	60	48	67	42	54	4	1.6	.6	.9	6.1	111	21.6	82	99	73	0	0	5	1
OR SALEM	58	45	67	38	51	2	1.6	.5	.6	7.5	132	24.2	85	97	72	0	0	5	1
PA ALLENTOWN	56	45	67	38	51	1	.6	0	.3	5.6	86	30.0	85	91	71	0	0	2	0
PA ERIE	60	44	66	35	52	5	1.1	.3	.5	9.3	133	37.1	117	83	61	0	0	3	0
PA HARRISBURG	58	44	68	37	51	0	2.1	1.5	1.1	6.5	118	31.5	104	94	71	0	0	2	2
PA PHILADELPHIA	61	48	73	42	55	2	.7	-.1	.4	5.5	95	31.8	96	93	68	0	0	2	0
PA PITTSBURGH	61	42	65	36	52	4	.5	-.1	.4	6.0	113	32.7	105	92	56	0	0	3	0
PA SCRANTON	55	43	69	36	49	1	.9	-.2	.4	6.4	114	31.7	107	89	71	0	0	3	0
RI PROVIDENCE	59	41	73	36	50	0	.6	-.3	.3	6.1	88	26.9	79	92	60	0	0	2	0
SC CHARLESTON	74	53	82	48	63	1	1.1	-.6	.8	3.3	39	43.8	93	87	52	0	0	2	1
SC COLUMBIA	72	50	78	45	61	2	.1	-.4	.1	2.4	32	30.1	73	93	55	0	0	2	0
SC GREENVILLE	65	49	75	47	57	0	1.0	.3	.9	6.5	90	26.8	67	90	59	0	0	2	1
SD ABERDEEN	64	38	69	27	51	10	.4	-.2	.4	-.4	-.4	-.4	-.4	81	39	0	2	1	0
SD HURON	67	37	70	26	52	9	0	-.3	0	2.7	82	14.1	77	90	42	0	3	0	0
SD RAPID CITY	68	36	76	30	52	8	T	-.1	T	2.1	91	13.8	81	74	27	0	1	0	0
SD SIOUX FALLS	66	37	70	29	51	8	T	-.2	T	2.9	66	16.5	71	82	40	0	3	0	0
TN CHATTANOOGA	69	48	76	43	59	3	.7	0	.7	5.6	81	36.1	86	91	56	0	0	1	1
TN KNOXVILLE	71	51	77	46	61	5	1.0	.3	1.0	10.3	187	36.8	96	93	56	0	0	1	1
TN MEMPHIS	69	50	77	39	60	2	.8	.1	.6	8.7	145	35.8	87	93	53	0	0	2	1
TN NASHVILLE	70	48	75	42	59	4	.8	.3	.8	4.1	73	35.5	93	95	53	0	0	1	1
TX ABILENE	73	49	77	36	61	0	0	-.5	0	12.4	243	26.9	123	83	41	0	0	0	0
TX AMARILLO	72	39	85	28	56	2	.5	-.2	.5	5.3	139	19.8	107	80	26	0	1	1	0
TX AUSTIN	76	50	79	44	63	-3	.7	-.2	.6	9.9	143	45.0	158	87	43	0	0	2	1
TX BEAUMONT	72	53	80	43	63	-3	.8	-.1	.6	9.8	103	45.2	97	98	65	0	0	2	1
TX BROWNSVILLE	81	58	89	49	69	-3	1.4	-.9	.8	7.9	90	29.5	129	96	50	0	0	3	2
TX CORPUS CHRISTI	78	57	86	49	68	-2	5.5	5.0	4.9	11.7	148	43.0	167	94	55	0	0	2	2
TX DEL RIO	76	54	78	43	65	-1	T	-.3	T	6.9	128	27.2	170	86	47	0	0	0	0
TX EL PASO	76	40	82	32	58	-1	0	-.1	0	1.0	50	12.3	173	72	20	0	1	0	0
TX FORT WORTH	71	48	76	39	60	-3	3.6	3.1	3.6	16.6	272	43.1	150	88	50	0	0	2	1
TX GALVESTON	70	60	77	49	65	-4	.8	-.2	.8	5.6	64	32.1	90	92	70	0	0	1	1
TX HOUSTON	74	51	80	40	62	-5	1.4	-.5	1.2	16.0	180	48.8	120	96	56	0	0	2	1
TX LUBBOCK	71	43	79	33	57	2	0	-.3	0	7.2	160	22.2	128	90	29	0	0	0	0
TX MIDLAND	76	46	83	38	61	1	0	-.2	0	6.2	194	17.4	140	86	29	0	0	0	0
TX SAN ANGELO	71	45	75	36	58	-4	0	-.3	0	11.3	231	30.0	186	95	41	0	0	0	0
TX SAN ANTONIO	77	47	80	38	62	-4	2.1	1.6	1.5	10.1	149	36.1	144	95	45	0	0	2	2
TX VICTORIA	75	51	80	42	63	-5	5.5	4.8	5.0	11.4	136	43.7	145	92	52	0	0	2	2
TX WACO	73	49	76	39	61	-3	.9	-.4	.9	12.1	202	32.3	119	93	50	0	0	2	1
TX WICHITA FALLS	70	45	80	34	58	-3	T	-.5	T	9.3	160	30.4	121	96	53	0	0	1	0
UT BLANDING	58	33	64	23	45	0	T	-.2	T	2.9	121	11.3	115	67	35	0	4	2	0
UT SALT LAKE CITY	59	38	71	31	49	2	1.4	1.2	1.1	4.4	244	13.7	109	81	38	0	2	3	1
VT BURLINGTON	53	37	63	29	45	1	2.1	1.5	1.2	11.0	180	37.1	136	94	59	0	3	3	1
VA LYNCHBURG	62	47	72	42	55	1	2.0	1.4	1.4	6.4	105	31.0	96	92	63	0	0	3	2
VA NORFOLK	66	56	75	52	61	4	T	-.6	T	6.6	85	33.7	87	94	73	0	0	2	0
VA RICHMOND	65	52	74	48	59	4	.4	-.3	.4	5.1	74	30.5	84	92	71	0	0	1	0
VA ROANOKE	60	47	69	43	53	0	3.1	2.4	1.7	8.4	120	26.9	80	96	68	0	0	3	2
WA COLVILLE	51	43	60	36	47	6	.6	-.2	.3	3.6	150	20.1	158	94	79	0	0	4	0
WA OMAK	58	43	65	36	50	--	.5	--	.4	3.0	--	9.5	--	79	53	0	0	4	0
WA QUILLAYUTE	55	46	59	38	51	3	9.7	6.7	3.0	21.6	126	76.7	101	100	89	0	0	7	6
WA SEATTLE-TACOMA	59	47	67	41	53	5	.7	-.4	.3	9.8	161	25.9	96	93	62	0	0	5	0
WA SPOKANE	56	42	66	36	49	7	.5	-.1	.2	2.1	95	11.6	87	90	65	0	0	4	0
WA WALLA-WALLA	66	49	74	44	58	8	1.0	.6	.5	3.4	142	17.4	135	87	47	0	0	5	1
WA YAKIMA	61	39	66	28	50	5	.2	0	.1	1.8	180	5.1	91	85	49	0	1	4	0
WV BECKLEY	58	42	65	36	50	2	1.3	.7	1.0	8.5	139	32.8	89	94	66	0	0	2	1
WV CHARLESTON	68	45	74	37	57	5	.7	-.1	.6	4.9	88	32.1	91	92	52	0	0	2	1
WV HUNTINGTON	68	46	74	41	57	5	.4	-.2	.3	4.3	84	34.0	101	90	55	0	0	2	0
WV PARKERSBURG	67	44	73	38	56	5	.1	-.4	T	5.0	98	28.6	86	97	53	0	0	2	0
WI GREEN BAY	56	37	61	26	47	3	T	-.4	T	6.7	129	21.4	88	98	68	0	2	1	0
WI LA CROSSE	60	38	70	21	49	4	T	-.3	T	4.1	73	32.7	123	97	56	0	2	1	0
WI MADISON	63	36	70	24	50	6	T	-.4	T	7.4	132	29.7	110	96	53	0	3	1	0
WI MILWAUKEE	56	41	64	33	49	3	0	-.4	0	8.4	162	30.4	120	96	65	0	0	0	0
WY CASPER	57	34	67	24	46	4	T	-.2	T	1.0	53	9.9	100	77	36	0	2	2	0
WY CHEYENNE	57	34	66	29	45	3	0	-.2	0	1.1	55	16.0	115	76	33	0	3	0	0
WY LANDER	58	31	64	24	44	4	T	-.3	T	1.2	48	10.1	81	79	32	0	4	0	0
PR SHERIDAN	65	34	75	25	50	8	.1	-.2	.1	1.6	64	13.3	90	78	29	0	2	1	0
PR SAN JUAN	86	73	88	72	80	0	2.5	1.2	1.9	12.6	103	52.2	106	96	68	0	0	7	1

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

HEATING DEGREE DAYS (BASE 65°) FOR WEEK ENDING NOV. 1, 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 cities across multiple states including ALA., ARIZ., ARK., CALIF., COLO., CONN., DEL., D.C., FLA., GA., IDAHO, ILL., IND., IOWA, KANS., KY., LA., MAINE, MD., MASS., MICH., MINN., MISS., MO., MONT., NEBR., NEV., N.H., N.J., N.MEX., N.Y., N.C., N.DAK., OHIO, OKLA., OREG., PA., R.I., S.C., S.DAK., TENN., TEXAS., UTAH, VA., WASH., W.VA., WIS., and WYO.



National Agricultural Summary

October 25-November 1, 1981

HIGHLIGHTS: Warm days and sunny skies over the northern part of the Nation enabled farmers to spend long hours in the fields as they took advantage of the best week of harvest weather this fall. As fields dried, rapid progress was made with this year's harvest. However, wet weather across the South delayed field activities. Farmers had 4 to 6 days suitable for fieldwork in the North Central and Western States while in the South Atlantic and South Central regions only 2 to 4 days were available. Soil moisture supplies were rated short to mostly adequate in all States except Ohio, Indiana, Wisconsin, Minnesota, Oklahoma, and Tennessee where adequate to surplus supplies were reported. Corn, soybean, and sorghum harvests continued to lag behind schedule even though good progress was made in many States. In the 17 major producing States, 59% of the corn acreage had been harvested, lagging last year's rapid progress of 86% and the 70% average. Soybean harvest in the 18 major States was 67% finished, compared with 77% last year and the 74% average. Sorghum was 61% harvested in the seven major States, well behind the 83% for last year and normal. Winter wheat seeding advanced to 89% complete; 78% of the acreage had emerged, with stands in generally good condition. In the 14 major cotton producing States, 44% of the acreage had been harvested, compared with 52% a year earlier. The apple harvest was virtually finished; growers began orchard clean-up work. Vegetable harvests increased in volume in southern areas, but were finished in northern regions. Rains improved pastures across the South. Livestock were moved to winter grazing areas.

CORN: Corn harvesting in the 17 major producing States was 59% complete, lagging last year's 86% and the average progress of 70%. Progress was behind normal in nearly all States except in the Southeast where dry weather enabled growers to harvest at a rapid pace. Harvesting was 20 percentage points or more behind schedule in Colorado, Indiana, Michigan, Minnesota, Ohio, and Wisconsin. Mild, dry weather in major producing areas helped to dry fields and lower grain moisture content. Growers in Minnesota harvested 21% of their crop during the week while South Dakota and Wisconsin farmers harvested 16%. Many farmers spent long hours in the fields taking advantage of the good weather conditions.

SOYBEANS: Soybean combining in the 18 major producing States advanced to 67% finished, 10 points behind last year and 7 points behind normal. Rain slowed southern harvests, but northern growers took advantage of the good weather and made rapid progress after being delayed by wet fields during much of the season. Minnesota farmers harvested 27% of the crop during the week. However, progress still lagged the average in nearly all States. Kentucky farmers were 23 percentage points behind average and Tennessee growers were 22 points behind.

SMALL GRAINS: Winter wheat seeding in the 15 major producing States was 89% finished, compared with 91% last year. Plants had emerged on 78% of the acreage and stands were generally in good condition. Rainfall in most areas promoted growth and improved conditions, although heavy rains in parts of Texas washed out some fields. These will be replanted as conditions permit. Planting was well advanced in all States except California, where seeding

is normally done later and only 28 percent was planted. Planting was virtually finished in the Great Plains and nearing completion in the Corn Belt.

COTTON: In the 14 major producing States, 44% of the cotton acreage had been harvested, slightly behind last year's 52%. Progress was behind average in Arkansas and Missouri, equal to the average in Arizona, Oklahoma, and Tennessee and ahead in all other States. Warmer weather sped development and bolls opened rapidly. A light freeze at week's end helped defoliate some stands in Texas, but a hard freeze is needed to kill the plants.

SORGHUM: The grain sorghum harvest was 61% complete in the seven major States, 22 points behind both last year and average. Nebraska producers harvested 25% of their acreage during the week as good weather prevailed. Harvesting in all States lagged behind schedule, by as much as 40 percentage points in Kansas.

OTHER CROPS: Rice harvesting was virtually finished, except in California where rain had delayed progress to 75%.

The peanut harvest neared completion in all areas except Texas. Wet fields continued to delay operations in Texas and harvesting slowly moved to the 44% mark, 30 points behind average.

Tobacco stripping continued active in many producing areas. The burley crop in Kentucky was 25% stripped and Tennessee burley was 52% stripped. South Carolina producers prepared beds after rainfall at the beginning of the week improved soil moisture supplies.

The sunflower harvest was 71% complete in Minnesota, 69% in North Dakota, 81% in South Dakota, and 60% complete in Texas.

Sugarcane harvest increased rapidly in Florida and was 29% complete in Louisiana.

FRUITS AND NUTS: The apple harvest was about finished; growers began orchard clean-up work. Pecan picking ranged from 14% complete in Texas to 20% in Georgia. Florida's citrus tree and fruit conditions improved after needed rains fell during the week. Most irrigation was stopped. The grapefruit and orange harvest was active. The Arizona lemon harvest neared a peak in the Yuma area, but was still limited in the Salt River Valley. Navel orange picking increased, but supplies were limited. In California, harvesting of dates, desert lemons, and avocados continued. Harvested orchards and vineyards were pruned. Texas growers harvested grapefruit and early oranges.

VEGETABLES: Harvests of hardy vegetables continue to move to market in some northern areas; all other vegetable harvests were completed. Florida's vegetable shipments were up 109% from the previous week as the volume of most crops harvested increased rapidly. Field activities were slowed in California due to rain. Growers harvested a wide variety of vegetables. The lettuce harvest declined and the sweetpotato and fall potato harvests neared completion. Texas growers continued planting lettuce, cabbage, and onions in the Rio Grande Valley; some early planted fields were emerging. Harvests picked up momentum in all parts of the State.

PASTURES AND LIVESTOCK: Recent rainfall in the southern part of the Nation improved pasture conditions and promoted growth of grasses. Fair to good conditions were reported in most areas, except the Southeast where previously dry weather has resulted in poor to fair conditions. Livestock were moved to winter grazing areas.

CROP PROGRESS

FOR WEEK ENDING NOV 1, 1981

NA - NOT AVAILABLE

WINTER WHEAT % PLANTED			WINTER WHEAT % EMERGED			CORN % HARVESTED			SOYBEAN % HARVESTED						
	1981	1980	AVG.		1981	1980	AVG.		1981	1980	AVG.		1981	1980	AVG.
CALIF	28	16	NA	CALIF	10	0	NA	COLO	39	79	72	ALA	56	53	49
COLO	99	100	100	COLO	91	94	91	GA	99	97	93	ARK	39	35	43
IDAHO	95	97	97	IDAHO	70	82	84	ILL	72	92	75	GA	37	30	26
ILL	82	95	92	ILL	65	80	NA	IND	40	90	60	ILL	91	99	95
IND	80	95	85	IND	60	80	65	IOWA	70	90	75	IND	70	97	85
KANS	96	97	95	KANS	90	85	NA	KANS	70	95	85	IOWA	90	100	94
MO	72	85	73	MO	55	70	60	KY	82	89	78	KANS	65	80	75
MONT	100	100	100	MONT	90	90	NA	MICH	30	50	53	KY	45	80	68
NEBR	100	100	100	NEBR	100	100	NA	MINN	52	81	73	LA	63	73	77
OHIO	90	99	97	OHIO	60	80	70	MO	72	92	73	MICH	65	75	72
OKLA	90	85	90	OKLA	75	50	65	NEBR	50	90	65	MINN	82	97	95
OREG	95	90	NA	OREG	65	71	NA	N C	95	94	94	MISS	49	51	59
S DAK	100	100	100	S DAK	100	100	100	OHIO	40	85	60	MO	67	82	75
TEX	79	81	85	TEX	72	69	NA	PA	58	68	45	NEBR	90	96	90
WASH	96	95	94	WASH	81	87	NA	S DAK	69	87	75	N C	25	21	22
								VA	84	80	74	OHIO	75	99	85
15 STATES	89	91	NA	15 STATES	78	76	NA	WIS	29	56	50	S C	22	11	16
EXCL. STATES WITH NA	91	92	92	EXCL. STATES WITH NA	74	70	72	17 STATES	59	86	70	TENN	29	61	51

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

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

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

COTTON % HARVESTED			
	1981	1980	AVG.
ALA	72	77	47
ARIZ	40	35	40
ARK	62	83	68
CALIF	65	48	NA
GA	73	88	56
LA	83	90	77
MISS	85	85	73
MO	50	80	75
N MEX	30	25	28
N C	68	82	53
OKLA	10	20	10
S C	83	85	70
TENN	57	87	57
TEX	27	41	37
14 STATES	44	52	NA
EXCL. STATES WITH NA	41	53	45

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

SORGHUM % MATURE			SORGHUM % HARVESTED				
	1981	1980	AVG.		1981	1980	AVG.
COLO	92	97	97	COLO	44	75	71
KANS	90	95	99	KANS	40	70	80
MO	93	100	100	MO	64	87	78
NEBR	99	100	100	NEBR	60	96	80
OKLA	98	90	100	OKLA	40	60	60
S DAK	100	100	100	S DAK	77	87	84
TEX	96	98	NA	TEX	84	92	92
7 STATES	94	97	NA	7 STATES	61	83	83
EXCL. STATES WITH NA	94	97	99	THESE 7 STATES PRODUCED 92% OF THE 1980 SORGHUM CROP.			

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

National Weather Summary (Continued from page 1.)

border spread moderate-to-heavy showers throughout Kansas and into Missouri and Iowa. Lighter showers covered the middle and lower Mississippi Valley and the lower Ohio Valley. Cold northerly winds whipped snow and rain through western Kansas, creating stressful conditions for livestock. Showers continued through Florida and southeastern Georgia.

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 varied from 5° above normal to 4° below normal. Rain scattered over most of State.

Fieldwork: 3.7 days. Activities: Row crop harvest; land preparation; small grain seeding; pecan harvest. Soybeans: Harvested 56%, 53% 1980, 49% average. Cotton: Harvested 72%, 77% 1980, 47% average. Wheat: Seeded 43%, 63% 1980, 64% average. Sorghum: Harvested 84%, 84% 1980. Conditions: Soybeans, wheat fair to good; pastures fair.

ARIZONA: Sunny, dry low humidity prevailed, much cooler air latter part week. Minimum temperatures dropped to 20's north, central sections, 30's, 40's south. Average temperatures 1° below normal to 4° above.

Cotton harvest increased rapid rate. Yuma, Pima, Pinal, Graham counties reported cotton harvest at or near peak. Many fields western areas completed; 40% acreage picked once compared 35% last year, 40% average. Sorghum harvest seasonal progress, most remaining fields fully headed, many at or near maturity. Alfalfa haying good progress, regrowth slowing due cooler weather, newly seeded fields good stand, growing well. Sugarbeets very good growth, weeding, thinning active but tapering off. Lettuce harvest steady progress southeast, harvest western areas Maricopa County began. Harvest other central, south central areas expected few days. Lettuce Yuma all stages, land preparation, heads approaching maturity. Cantaloup, honeydew harvest active, cantaloup harvest rapidly tapering off, honeydews remained fairly steady. Mixed vegetable harvest seasonal progress. Lemon picking approaching peak Yuma, still limited Salt River Valley. Navel orange picking increasing, supplies still limited. Other new crop fruit sizing very well, good color beginning to show. Ranges higher elevations fair to good, southwestern Deserts poor. Cattle roundup continued, livestock fair to good. Water supplies, soil moisture short to adequate Deserts, adequate other areas.

ARKANSAS: Mild week, periods of rain. Highest temperature 80°, lowest 29°. All departures ranged from +1 to -6°. Most rainfall 2.33 in., least 0.14 in.

Harvesting of cotton and soybeans resumed at midweek. Four days fieldwork. Soybeans shedding 96%, 78% 1980; mature 88%, 72% 1980; harvested 39%, 35% 1980, 43% average. Cotton harvested 62%, 83% 1980, 68% average. Wheat planted 37%, 60% 1980, 58% average; good condition. Soil moisture adequate. Pastures much improved. Livestock good condition.

CALIFORNIA: After a week's respite another winter-like storm drove across the State in the middle of the week. Average temperatures tumbled, generally, and totals for precipitation were measured in inches in many localities, and, one to two feet of snow was deposited at the higher elevations of the Sierra Nevada. All sections of the State, except the southeast interior reported precipitation.

Rice harvest delayed. Crop 75% in vs. 88% year earlier. Cotton continues, most gins operating. Cotton 65% in vs. 48% previous year. Winter wheat planting active, 28% planted vs. 16% last year. Sugarbeet continued most now harvested. Cutting late dry bean still active. Harvest near completion. Milo harvest continues. Alfalfa hay still cut. Corn silage and grain harvest remains active. Harvest of dates and Desert lemons continued. Avocado varieties being harvested include Susan, Bacon, Cavocado, Teague, Reed, and Hass.

Emperor table grape harvest hindered by lack of color. Kiwi picking continued. Pruning harvested orchards and vineyards active. Recent rains slowed field activities. Artichoke supplies moderate, variable quality along Central Coast. Broccoli, cauliflower harvest continues along Central Coast. Broccoli supplies moderate, quality moderate. Cauliflower supplies moderate, quality variable. Celery supply heavy, good quality. Bell pepper light supply, moderate quality. Lettuce harvest declining Salinas area. Supplies light, quality variable. Sweetpotato harvest almost complete. Fall potato harvest nearing completion. Recent storms Tulalake area halted harvest temporarily. Operations continuing now with no problems reported. Rain over most of State beneficial to ranges, pastures. Supplemental feeding active most areas. Calving, lambing increasing.

COLORADO: Light precipitation early in week with cool temperatures. Dry and mild midweek. Cooler with widespread rain and snow end of week. Temperatures slightly above normal east; near normal west.

Winter wheat seeded 99%, 100% 1980, 100% average; emerged 91%, 94% 1980, 91% average. Corn mature 94%, 99% 1980, 99% average; grain harvested 39%, 79% 1980, 72% average. Sorghum ripe 92%, 97% 1980, 97% average; grain harvested 44%, 75% 1980, 71% average; forage harvested 96%, 99% 1980, 98% average. Dry beans cut 100%, 99% 1980, 99% average; threshed 96%, 98% 1980, 98% average. Sugarbeets harvested 82%, 90% 1980, 88% average. Alfalfa hay 4th cutting 60%, 70% 1980. Fieldwork: 5.5 days suitable. Ranges and pastures good condition. Livestock good condition.

FLORIDA: A weakening cold front moved from north to south, first half of week, scattering showers throughout the State. A strong ridge of high pressure built into the eastern Gulf behind the front. The resulting increased flow of low level, moist Atlantic air made for considerable cloudiness and spotty, brief showers through weekend. Strong east to northeast winds blew. Rainfall amounts quite variable. A few spots had rains in excess of 2.00 in. while other areas had little or no rain. Temperatures were unseasonably mild, averaging 4 to 6° above normal.

Soil moisture short most areas, adequate southeast and along east coast. Harvest increasing rapidly. Planting of small grains limited to areas where moisture is adequate. Light to heavy, but scattered, showers benefited pastures many areas. Mole cricket, army worm damage evident some areas. Condition cattle, calves mostly fair in Panhandle, fair to good, upper Peninsula, good elsewhere. Citrus tree and fruit condition improved with rain. Most irrigation stopped where rain significant. Fruit color good. Grapefruit and orange harvest active. Warm to hot days, mild nights prevailed vegetable areas. Scattered showers occurred as a cold front moved over the State. Rainfall mostly light to moderate but some locations had little to no rain. Irrigation continues heavy some areas. Volume most crops increased rapidly. Total vegetable shipments up 109% from previous week. Harvest gained snap beans, carrots, sweet corn, cucumbers, eggplant, escarole, lettuce, okra, peppers, radishes, squash, tomatoes. Harvest steady southern peas. Light harvest underway cabbage, parsley. Transplanting strawberries essentially complete. Limited supply fall watermelons, cantaloups available. Quality, size good.

GEORGIA: Cool and rainy early in week followed by slow warming trend. Average rainfall near 1.50 in. most sections, 2.25 in. mountains to 0.50 in. southeast. Local amounts south central over 4.00 in. Temperatures 3 to 5° below normal most sections. Mostly cloudy but mild 31st and 1st. Some rain southern quarter 1st, amounts near 0.25 in. immediate coast but less than 0.10 in. inland.

Soil moisture short to mostly adequate. Four days suitable for fieldwork. Harvesting and small grain seeding continuing. Harvested: Corn 99%, 1980 97%, average 93%; cotton 73%, 1980 88%, average 56%; peanuts dug 99%, 1980 97%, average 99%; peanuts threshed 98%, 1980 95%, average 97%; soybeans harvested 37%, 1980 30%, average 26%; apples 98%, 1980 99%; pecans 20%, 1980 18%, average 19%. Development stages: Soybean leaf drop 96%, 1980 83%; cotton opened bolls 96%, 1980 99%. Planted: Wheat 26%, 1980 34%, average 38%; rye 58%, 1980 58%, average 53%; other small grains 48%, 1980 51%, average 50%. Conditions: Pastures poor to fair, cattle and hogs fair to good.

HAWAII: Heavy rains drenched parts of the Island chain. Beneficial in some agricultural sectors. Isolated damage, mainly on Oahu. The Waiawa and Kipapa streams, on Oahu, overflowed damaging watercress, vegetable crops, and banana fields. Livestock losses were reported, mainly hogs. Spraying was heavy to control disease and insects.

Vegetables: Chinese, mustard cabbage supplies heavy. Others light to moderate. Bananas: Supplies adequate. Damage was light from the storm. Papayas: Marketing problems not solved. Abandonment in fields heavy. Pineapples: Light harvest. Sugar: Rains beneficial. Lower production. Pastures: Rains added soil moisture in some dry areas.

IDAHO: Temperatures ranged from 1° below to 6° above normal. High of 70°, low of 15°. Precipitation throughout the State in varying amounts.

Occasional rain slowed harvest activity in some areas, but most farmers were able to make good harvest progress. Potato harvest virtually complete and about equal to previous years. Sugarbeets continue to lag behind average with 63% dug. Winter wheat seeding advanced slightly to 95% complete and emergence, at 70%, running way behind last year.

ILLINOIS: Temperatures 1 to 2° above normal. Precipitation scattered over State, amounts trace to 0.80 in.

Corn 72% harvested, 92% 1980, 75% average. Soybeans 91% combined, 99% 1980, 95% average. Winter wheat 82% seeded, 95% 1980, and 92% average; 65% emerged, 80% 1980. Corn and soybean acreage 25% tilled, 35% 1980, and 35% average. Pastures 7% excellent, 69% good, 19% fair, 5% poor. Soil moisture 5% short, 76% adequate, 19% surplus. Fieldwork: 5.3 days suitable.

INDIANA: Week 10° warmer than previous week. Temperatures averaged 6° above normal and ranged from 30 to 77°. Rainfall early in period averaged 0.30 in. northwest and south central, 0.90 in. east central, 0.50 to 0.70 in. elsewhere. Low sunshine and evaporation rates. Soil temperatures 45 to 55°.

Fieldwork averaged 4 days. Topsoil moisture mostly adequate to surplus, subsoil moisture adequate. Corn 40% harvested, 1980 90%, average 60%. Soybeans 70% combined, 1980 97%, average 85%. Moisture content: Corn 25%, soybeans 14%. Wheat 80% seeded, 1980 95%, average 85%. Wheat 60% emerged, 1980 80%, average 65%. Land for spring planted crops 20% plowed, 1980 45%, average 25%.

ICVA: A mild, cloudy week with rain, drizzle and fog at the week's end. Rainfalls varied from little or none northwest and northeast to around 2 in. south central. Temperatures averaged about 7° above normal.

Topsoil moisture: 11% short, 81% adequate, 8% surplus. Subsoil moisture: 24% short, 72% adequate, 4% surplus. Corn acreage harvested: 70%, 1980 90%, normal 75%. Soybean acreage harvested: 90%, 1980 100%, normal 94%. Fall plowing completed: 22%, 1980 33%, normal 27%. Fertilizer application complete: 21%, 1980 36%. Fieldwork: 5.8 days suitable. Livestock reported to be in mostly good condition.

KANSAS: Precipitation 0.50 to 1.00 in. west and 1.00 to over 2.00 in. east. Temperatures averaged 52° northwest, 58° northeast and 54 to 56° elsewhere. There were near normal south and 3 to 4° above normal north. Frost to hard freezes occurred.

Wheat 96% planted, 97% last year, 95% average, 90% emerged, 83% last year. Corn 99% mature, 100% last year and average; 70% harvested, 95% last year, 85% average. Soybeans 65% harvested, 80% last year, 75% average. Sorghum 90% mature, 95% last year, 99% average; 40% harvested, 70% last year, 80% average. Harvest progress good during week especially west central, north central and northeast. Hard frost needed to mature remaining sorghum. Pasture and range continue good to excellent, except west central where poor to fair. Adequate to surplus feed grain, hay, forage supplies. Movement of cattle off grass. Fieldwork: 5 days suitable.

KENTUCKY: Temperatures were 4 to 6° above normal and precipitation was 0.50 to 0.75 in. above normal with most reporting points receiving more than 1.00 in.

Soil moisture improved; 19% short, 75% adequate and 6% surplus. Burley stripping 25% complete, ahead of last year and average. Corn harvest 82%; last year 89%; average 78%. Soybean harvest progressed rapidly and was 45% complete, behind last years 80% and the average of 68%. Fall wheat seeding 65% complete. Wheat in mostly good condition.

LOUISIANA: Rainfall between 0.10 and 0.60 in. Statewide. Temperatures 3 to 8° above normal.

Soil moisture short to adequate. Days suitable: 5.0. Cotton harvested 83%, 90% 1980, 77% average; condition fair to good. Soybean leaves turning 98%, 97% 1980, 94% average; leaves shedding 89%, 98% 1980, 94% average; harvested 63%, 73% 1980, 77% average; condition fair. Sugarcane planted 100%, 98% 1980, harvested 29%, 15% 1980, 21% average; condition good. Sweetpotatoes harvested 97%, 90% 1980, 89% average. Vegetables rated fair to good. Pecans rated fair to good; harvested 15%, 16% 1980. Wheat seeded 24%, 54% 1980, 70% average; condition fair. Pasture rated fair. Livestock rated fair to good. Hay final cutting 99%, 97% 1980.

MARYLAND AND DELAWARE: Rains averaged 1.50 in. with reports of over 5.00 in. in southern Maryland. Temperatures averaged 1 to 3° below normal except on Eastern Shore which was 2° above.

Beneficial widespread rains. Topsoil moisture improved to adequate. Short to adequate subsoil. Rain beneficial to small grains, but delayed row crop harvest. Fieldwork: 3 days suitable. Maryland: Wheat seedings 80%, same as last year. Barley, rye, oats completed, same as 1980. Corn harvested 90%, 95% a year ago. Soybeans: 95% shed, 45% harvested; last year 95% shed, 60% harvested. Delaware: Barley planted 95%, 1980 95%. Wheat 65%, last year 85%. Rye 60%, last year 80%. Corn harvested 95%, last year 100%. Soybeans 95% shed, 30% harvested; last year 95% shed, 60% harvested.

MICHIGAN: A warm week with all areas reporting above normal temperatures. This is in sharp contrast to the below normal temperatures that State has been experiencing the last several months.

The southeast corner had over 1.00 in. of rain while the south central portion of the Lower Peninsula had near 0.50 in. of rain. Rainfall was light to nonexistent over the rest of the State.

Late season harvest in high gear. Most days were warm with clear sunny skies. Farmers spent long hours in fields as they took advantage of best week of harvest weather this fall. There were 5 days suitable for fieldwork. Dry bean harvest advances to 95%, last year 100% and 94% average. Corn increased to 30% harvested, 50% in 1980 and 53% average. Soybeans 65% complete, 75% in 1980 and average of 72%. Sugarbeets moving with 75% in, 70% last year and 78% average. Winter wheat planted 95%. This acreage can be considered 100% because many producers are not planting additional acres as such a late date in the season.

MINNESOTA: Temperatures averaged 3 to 6° above normal. Extremes: 70° at Browns Valley and 6° at Hibbing. Precipitation averaged 0.18 to 0.45 in. below normal, except normal to 0.15 in. above normal extreme northwest. Precipitation totals were less than 0.10 in. except 0.10 to 0.31 in. extreme northwest. Snowfall zero and snow depth at weeks end was zero.

Good progress harvesting crops under favorable weather. Harvest still somewhat hampered by wet fields. Warm, sunny weather prevailed all week. Harvest gained momentum as week progressed. Topsoil moisture rated 3% short, 53% adequate, and 44% surplus. Harvested: Field corn 52%, 1980 81% normal 73%; soybeans 82%, 1980 97%, normal 95%; sunflowers 71%, 1980 91%, normal 91%; sugarbeets 89%, 1980 99%, normal 99%. Moisture content: Field corn 24%, 1980 20%, normal 21%; soybeans 13%, 1980 11%, normal 12%.

MISSISSIPPI: Cold front brought rain and cooler temperatures early in the week. Temperatures were normal to slightly below normal. Extremes: 85 and 30°. Greatest 24-hour rainfall 3.26 in.

Soil moisture adequate. Days suitable for fieldwork: 3.7. Cotton 85% harvested this year and last, 73% average; condition fair to good. Soybeans 93% mature this year and average, 82% last year; harvested 49%, 51% last year, 59% average; condition fair to good. Rice 94% harvested, 97% last year and average. Corn 95% harvested; sweetpotatoes 87%; sorghum 96%; peanuts 97%; pecans 25%. Winter wheat 47% planted, 58% last year, 67% average. Pasture conditions fair to good.

MISSOURI: Temperatures averaged slightly above normal. Precipitation was widespread, averaging less than 0.50 in. in the northern two-thirds of the State and slightly over 1.00 in. in the southern third.

Fieldwork: 5.1 days suitable. Corn 72% harvested, last year 92%, normal 73%. Grain sorghum 64% harvested, last year 87%, normal 78%. Soybeans 67% harvested, last year 82%, normal 75%. Winter wheat 72% seeded, last year 85%, normal 73%. Fall plowing 37% completed, last year 43%, normal 34%. Cotton 50% harvested, last year 80%, normal 75%. Condition of winter wheat and pasture fair to good. Topsoil moisture supply adequate.

MONTANA: Pleasant week with daytime temperatures mostly 50's and 60's, minimums 30's and 40's. Temperatures averaged 5 to 8° above normal. Highest 74° at Glendive, lowest 16° at West Yellowstone. Precipitation mostly light, with few areas southwest receiving moderate amounts rain. Windy over plains most days.

Topsoil moisture short to adequate. Subsoil moisture short eastern third; short to adequate elsewhere. Days suitable for fieldwork: 5. Potato harvest virtually complete. Sugarbeets harvested 85% compared with 75% last year and 95% average. Winter wheat emerged 90%. Condition

fair to good. Cattle and sheep moved off summer ranges: 85%. Feed supplies for winter feeding adequate to surplus except eastern third short to adequate.

NEBRASKA: Widespread rain fell over southeastern half of State late in week. Amounts up to 1.50 in. common in southeast. Temperatures: 5 to 6° above normal.

Producers made excellent harvesting progress, taking advantage of warm, dry conditions. Corn harvest 50%, 90% previous year and 65% normal. Soybeans 90% combined, 96% last year and 90% normal. Sorghum 60% harvested, 96% last year and 80% normal. Winter wheat good; additional moisture would be beneficial in western areas where receipts have been below normal. Pasture and range feed supplies short to mostly adequate. Days suitable for fieldwork: 6.4. Topsoil and subsoil moisture short to mostly adequate.

NEVADA: First fall - then winter - then fall again. Week began with fair weather. Storm moved across entire area midweek with rainfall widespread and snow at higher elevations. By weekend temperatures began to return seasonal normals. Mostly sunny and warm end of period.

Alfalfa hay, onion, potato harvests finished. First heavy snow of season increased cattle feeding requirements. Livestock mostly good condition.

NEW ENGLAND: High pressure dominated the weather on 26th and again 29th thru 1st. Meanwhile, a large slow moving low pressure system moved into New England from West Virginia, passing slowly through on 27th and 28th. Rainfall from this storm system measured in generally between 1.00 and 1.50 in. over the south, and 1.30 to just over 2.00 in. over the north. Highest amounts occurred at Mt. Washington with 3.20 in. Augusta, Maine had about 2.80 in. Lowest amounts were 0.30 at Providence, 0.43 in. at Nantucket and 0.49 in. at South Weymouth. Temperatures showed relatively mild nights, and cool days.

NEW JERSEY: Temperatures averaged near normal. Extremes: 29° at Charlotteburg on 30th and 74° at several locations on 27th. Rainfall averaged 1.19 in. north, 0.68 in. central and 0.52 in. south. Heaviest 24-hour total was 1.48 in. at Long Valley on 27th. Estimated soil moisture, in percent of field capacity, averaged: 98 north, 97 central and 96 south.

Harvest of hardy fall vegetables continues. Apple and cranberry harvest in cleanup stage, most growers completed harvest. Corn for grain and soybeans being combined as weather conditions permit. Fall sown grains and cover crops growing nicely.

NEW MEXICO: Temperatures were well above normal early in the week with temperatures dropping by late week. Snowfall was received in the north-eastern part of the State.

Soil moisture in adequate supply. The main farm activities included harvest of grain sorghum, cotton, corn for grain, peanuts, red chile, and lettuce. Cotton harvest progressing actively with expectations for a good yield. Alfalfa hay harvest nearly complete with most farmers just cleaning up fields. Grain sorghum in good condition with harvest progressing well. Grazing of wheat and barley fields beginning to increase. Corn harvest continuing. Pecans remain in good condition with some early harvest occurring. Harvest of fall lettuce, red chile, and peanuts continuing. Ranges in good condition with good supplies of grass for winter. Livestock in good condition with fall shipments beginning to increase in activity.

NEW YORK: The week started quite wet. Most stations had rainfall of 1.00 in. or more. Central

areas picked up as much as 5.00 to 6.00 in. Flooding of various proportions occurred in a number of counties. Average temperatures ranged from 42° in Massena to 53° at Bridgehamton.

NORTH CAROLINA: Temperatures: Near normal in the west to 2 to 5° above normal across the rest of the State. Precipitation: Very light in the north-eastern part of the State to near 5.00 in. in sections of the Piedmont.

Fieldwork: 3.6 days suitable. Soil moisture: 6% very short, 36% short, 54% adequate, and 4% surplus. Harvest: Cotton 68%, 1980 82%, 53% average; sweetpotatoes 91%, 1980 80%; sorghum grain 82%, 1980 74%, 78% average; soybeans 25%, 1980 21%, 22% average; corn for grain 95%; 1980 94%, 94% average; peanuts dug 98%, 1980 94%; peanuts threshed 92%, 1980 89%; apples 98%, 1980 84%. Plantings: Wheat 42%, 1980 54%, 50% average; oats 63%, 1980 73%; barley 59%, 1980 72%; rye 54%, 1980 49%. Phenological stages: Soybeans shedding leaves 91%, 1980 64%. Major farm activities: Seeding fall cover crops and harvesting soybeans.

NORTH DAKOTA: Week was very warm and dry. Only northeastern district received above normal moisture. Remaining districts received 0.05 in. or less. Most precipitation 0.37 in. northeast. Temperatures above normal all districts.

Dry weather permitted row crop harvest to progress rapidly. Good harvest progress made on all crops. Flax, dry edible bean and potato harvests virtually complete. Sugarbeet lifting near completion. Sunflower combining over two-thirds done but about one week behind average. About one more good week needed to finish harvest. Average of 6.3 days suitable for fieldwork. Lack of moisture left most of western half quite dry. Forty-six percent of State short of very short of topsoil moisture, compared to 10% last year. Percent of acres harvested with last year and average: Sunflower 69, 60, 80; flax 98, 82, 95; potatoes 97, 100, 100; dry beans 97, 100, 100; sugarbeets 91, 100, 100; corn 71, 82, 84; soybeans 80, 99, 99.

OHIO: The week began mild and rainy, but little rain was reported after 28th. Totals ranged up to 2.00 in. High temperatures averaged from around 60° northwest to upper 60's in the southeast. These values were 4 to 8° above normal. Minimum temperatures averaged above normal by about the same amount. The lowest report was 28°.

Moisture of corn being harvested 26%. Drying costs will be very high. Several reports of corn lodging from corn borer and rot damage. Quality of harvested soybeans only fair - much frost damage. Grain storage more than adequate because of low yields. Wheat in southern part of State aided by last week's rains. Corn for grain harvested 40%, 85% 1980, 60% average. Soybeans harvested 75%, 99% 1980, 85% average. Sugarbeets harvested 35%, 90% 1980, 70% average. Apples harvested 95%, 90% 1980, 90% average. Wheat planted 90%, 99% 1980, 97% average. Wheat emerged 60%, 80% 1980, 70% average. Days favorable: 4.5. Pasture condition fair. Soil moisture 9% short, 56% adequate, 35% surplus.

OKLAHOMA: Temperatures were near normal in most sections with rain in all divisions. Rainfall amounts ranged from 0.50 in. in the west central to 2.00 in the northeast.

Near normal temperatures coupled rain latter part week limited harvest operations. Fields southern two-thirds State still too wet for harvest. Wheat planted: 90%, 85% 1980, 90% average. Wheat up-to-stand: 75%, 50% 1980, 65% average. Sorghum mature: 98%, 90% 1980, 100% average. Sorghum harvested: 40%, 60% 1980, 60% average. Cotton open bolls: 98%, 95% 1980, 90% average. Cotton harvested: 10%, 20% 1980, 10% average. Days suitable for fieldwork: 4.3.

OREGON: Temperatures slightly above normal. Rainfall heaviest along coast, to less than 0.50 in. in east. Fall grain seeding nearly complete.

Winter wheat seeded 95%, 89% last year, 90% last year; emerged 65%, 71% last year. Some re-seeding continuing. Topsoil moisture adequate in east to surplus in west. Haying nearly complete. Dry bean harvest nearly complete. Other fieldwork limited to spraying and cultivation. Fall vegetable harvest continues. Potato harvest nearly complete. Tree fruit harvest about done. Filbert harvest winding down. Walnut harvest beginning. Cranberry harvest nearing completion. Caneberry training continues. Livestock mostly good. Range and pasture condition vary from fair to excellent. Pastures improving. Cattle moving from range and calves being weaned.

PENNSYLVANIA: Cloudy, rainy conditions with even a few thundershowers 26th and 27th giving way to fair sunny weather remainder of week west, but easterly flow kept skies mostly cloudy eastern half through weekend. Temperatures 1 to 5° above normal with extremes 73 and 25°. Warmest week in nearly a month and greatest rainfall since end of July most sections. Amounts 1.00 to 3.00 in. all areas except southwest border and extreme west were 0.50 in. or less.

Three days suitable. Soil moisture adequate to surplus. Activities: Plowing; planting wheat; cutting firewood; fixing fences; and harvesting corn for grain, ensilage corn, soybeans, potatoes, cabbage, hay crops, and apples. Potato harvest virtually complete, about a week behind last year. Soybeans 50% harvested, last year 70%. Corn for grain 58% harvested compared with 68% harvested last year and the average of 45%. Ensilage corn harvest virtually complete, about 2 weeks behind last year. Wheat planting virtually complete, about the same time as last year. Fall plowing 94% complete, last year virtually complete at this time. Fourth cutting alfalfa 89% complete, last year 88%. Hay quality mostly poor. Feed from pasture mostly average.

PUERTO RICO: Island average rainfall 2.28 in. or 0.65 in. above normal. Highest total 5.41 in. Temperatures averaged about 79° on Coasts and 75 74° Interior Divisions. Extremes: 93 and 55°.

SOUTH CAROLINA: Daily high temperatures in upper 70's first dropped to 60's during last half. Rainfall confined to first of week.

Soil moisture short to adequate. Four days available for fieldwork. Cotton 83% harvested after rain interruption, few scrapping after pickings; 85% year ago, 70 average. Soybeans fair condition, some reported improving prospects following rains; 94% shedding leaves, 82 year ago, 86 average; maturity at 77% with good frosts, ahead of 38 last year, 54% average; 22% harvested, 11 last year, 16 average. With soil moisture favorable, growers preparing tobacco beds. Winter grazing 62% planted, behind 83% last year, 82 average; emergence only 43% compared to 68 for 1980 and average. Cattlemen forced into marketing or stall-feeding. Pastures poor to fair condition. Coastal Bermuda last cutting virtually complete loss. Fall vegetable conditions poor to fair; snap beans 62% harvested, 66 last year; cucumbers 83% harvested, 88 last year.

SOUTH DAKOTA: Almost no precipitation. Temperatures 3 to 13° above normal. Extremes: 10 and 79°.

Topsoil moisture adequate east central, south-east, south central and portions of central district. Mostly short elsewhere. Subsoil critically short in center of west river and large area of east river, adequate in a few small areas along river, short elsewhere. Nearly 6 days suitable. Marketing cattle, applying anhydrous, fall tilling and harvesting. Feed mostly adequate. Stock

water varies, with many reporting low supplies. Soybeans harvested 86%, 1980 100%, average 95%. Corn harvested 69%, 1980 87%, average 75%. Sorghum harvested 77%, 1980 87%, average 84%. Sunflowers harvested 81%, 1980 88%, average 83%.

TENNESSEE: A cold front passed over the State early in the week and a high pressure dominated for the rest of the week. Rainfall occurred mostly early in the week. Temperatures ranged from mid 50's in the northeast to near 60 in most other sections.

Soil moisture adequate to surplus. Fieldwork: 3.2 days suitable. Corn 75% harvested, 1980 84%, average 61%. Cotton 57% harvested, 1980 87%, average 57%. Soybean harvest advanced slowly. Soybeans harvested 29%, 1980 61%, average 51%. Soybeans mature 94%, 1980 97%, average 85%. Bury tobacco 52% stripped, 1980 48%, average 45%. Pasture conditions improved from last week and livestock looking good. Fall plowing 79% complete, 1980 81%, average 79%. Wheat seeding 58%, 1980 78%, average 71%. Oats seeding 88% complete, 1980 89%, average 88%.

TEXAS: Weather: Fair skies 26th through 29th. Cold front 31st causing heavy thundershowers. Temperatures normal over State. Rainfall below normal Childress to Midland; Edwards Plateau; far West Texas. Above normal Central Coast northward into North Central Texas. Central Texas Coast, northwest of Fort Worth, heavy storms caused flooding. Elsewhere, rainfall was near to above normal.

Crops: Dry, open weather provided ideal conditions most fieldwork. However, most planting, harvesting operations made slight progress, since fields too wet many areas. Heavy rains North Central Texas caused minor flooding, washed out some small grain fields. Cotton harvest underway High Plains some defoliated, hail damaged fields. Warming trend helped cotton development across Panhandle, bolls opening rapidly. A light freeze end of week helped to defoliate some stands; hard freeze needed to kill plants. Cotton yields appear good Southern High Plains; quality could drop as wet fields delay harvest. Statewide, reported condition was 5% excellent; 61% good; 30% fair; 4% poor. Sorghum harvest picked up Plains, as dry, open weather lower grain moisture levels. Small grain fields excellent growth with abundant moisture supplies. North, North Central Texas, heavy rains over weekend washed out some wheat, oat fields which will be replanted. Some areas Low Plains, Blacklands, replanting necessary since fields yellowing from excess moisture. Volunteer wheat, oats problem northern part of State. Army-worm damage South Central. Peanut harvest some progress but wet fields continue slow most operations Cross-Timbers. Cotton open bolls 78%, 90% 1980. Cotton harvested 77%, 41% 1980, 37% average. Sorghum mature 96%, 98% 1980. Sorghum harvested for grain 84%, 92% 1980, 92% average. Wheat planted all purposes 79%, 81% 1980, 85% average. Wheat emerged 72%, 69% 1980. Corn for grain harvested 96%, 98% 1980, 98% average. Peanuts harvested 44%, 50% 1980, 74% average. Soybeans harvested 33%, 60% 1980, 59% average. Sugarbeets harvested 24%, 12% 1980, 36% average. Pecans harvested 14%, 10% 1980, 12% average. Sunflowers harvested 60%, 69% 1980, 79% average. Oats planted 73%, 79% 1980, 79% average.

Range and livestock: Range, pasture conditions good. Grazing good in most areas, except portions of South Texas, Rio Grande Valley where some supplemental feeding has begun. Recent rains helpful in replenishing stock tanks, ponds which have adequate levels. Livestock condition good.

Commercial vegetables: Lower Rio Grande Valley, harvest of green peppers, cucumbers active. Lettuce, cabbage, onion planting continued, some early planted fields emerging. Harvest of grapefruit,

early oranges continued, good volumes being shipped. Coastal Bend, fall vegetables doing well. Harvest of cucumbers underway. San Antonio-Winter Garden area, fall vegetables making excellent progress. Harvest of cabbage in full swing, carrot harvest beginning to pick up. Broccoli, cauliflower harvest underway soon. East Texas, sweetpotato harvest resumed, some losses may occur due to excess moisture. Tomatoes, peppers progressing well. Trans-Pecos region, harvest of cabbage, chili peppers, bell peppers active. Conditions good, all fall vegetables progressing well. High Plains, cool weather slowed most activity, light harvest of lettuce, carrots. Bell pepper harvest wrapping up. Pecan harvest continued at steady pace. Production, quality good.

UTAH: Recurring periods of rain and snow latter part last week with accumulated amounts moisture very variable, ranging from light to locally very heavy. Clearing over weekend. Average temperatures ranged from 2° below normal to 4° above.

Soil moisture conditions markedly improved. Corn silage harvest nearly complete. Corn for grain fields open ready for harvest. Turkeys moving to slaughter for holiday season. Sorting and marketing of apples and potatoes in progress.

VIRGINIA: Rainfall was widespread over the State 26th and 27th. The heaviest precipitation fell 27th along with a few thunderstorms in the western division. Most areas received rainfall totals in excess of 3.00 in. Charlotte Court House (southern division) received over 4.00 in. Southwestern and eastern areas received 1.00 to 1.50 in. Later, the week was generally dry. Temperatures were about 2° below normal but a warming trend was felt by 1st.

Wet fields slowed crop harvest early in the week but the increased moisture was beneficial for pastures and small grain fields. Topsoil moisture was rated 20% short, 76% adequate, 4% surplus, greatly improved from 96% short a week ago. Days suitable for fieldwork: 2.4. Harvest of corn for grain was 84% complete, 80% 1980, 74% average. Soybean harvest was 32% complete, 19% 1980, 22% average. Grain sorghum was 40% combined, 20% 1980, 23% average. Peanuts 99% dug, 95% combined; 86% dug, 68% combined 1980; average 84% dug, 71% combined. Cotton has not been picked yet. Fall land preparation continued when field conditions permitted. Small grain planting progress: Wheat, 55% seeded, 49% 1980, 46% average; barley 83% seeded, 78% 1980, 71% average; winter oats 92% seeded, 83% 1980, 79% average. Pasture condition improved and was rated fair to good except in the western mountains where they were still very poor. Rainfall perked up pastures and expected to improve those stands of small grains which were irregular due to low soil moisture levels. More rain still needed for wells and springs. Apple harvest nearing completion. Much inside work was done in preparation for winter.

WASHINGTON: West: Rainfall measured 0.75 to 6.50 in., well above normal. Average temperatures were near normal. Harvest of several late vegetables continued while silage corn and potatoes neared completion. Cleanup operations continued as did canning of raspberries. Hay feeding expected to begin soon.

East: Rainfall amounts were generally 0.20 to 0.30 in. above normal except in southeast where totals were near 1.00 in. Temperatures averaged 2 to 5° above normal. Apple harvest nearly completed with warehouses busy packing. Crops harvested were potatoes, field corn, carrots, and grapes. Fall tillage work progressed, reseeding of winter wheat has occurred due to a cheat grass problem. Movement of livestock from summer ranges continued. Hay supplies adequate.

WEST VIRGINIA: Temperatures above normal. High 73°, low 22°. Precipitation near normal in north-west and above normal elsewhere.

Soil moisture adequate. Days worked averaged 2.9. Pasture fair to poor. Corn 62% harvested, about equal to 1980.

WISCONSIN: A dry, sunny week as temperatures averaged 4° above normal. High temperatures were mostly in the 60's while the lows were mostly in the 20's. High temperature of the week, 73°, was reported in Port Edwards on 30th while Morse was the State's cool spot, reporting 8° on 26th. Precipitation was negligible with just two districts reporting 0.10 in. of rainfall.

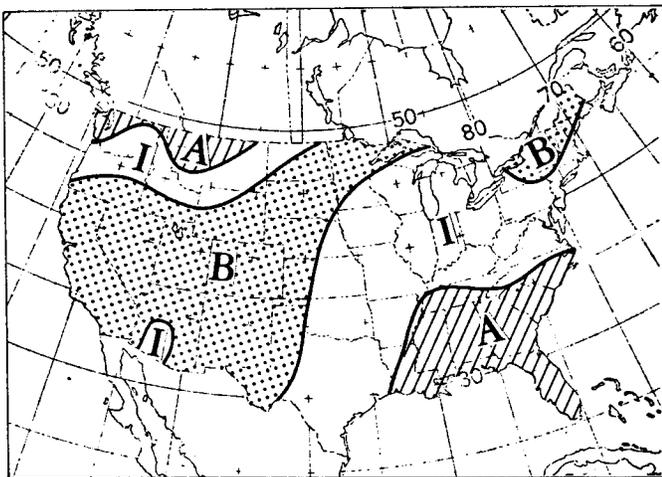
Fieldwork: 5 days suitable. Corn harvesting good on track as more favorable harvesting conditions prevailed. The 1981 corn crop 29% harvested, 56% 1980, 50% average. Moisture content remains high in many areas but the warm, dry weather facilitating crop dry down. Soybean harvest made strong progress and was 33% complete, 71% 1980, 60% average. Some fall plowing was done and that activity 26% complete, 29% 1980, 34% average. Some

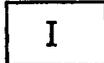
hay was being harvested in south as drying conditions became favorable. Late season pastures good and rated at 93% of normal, 90% 1980, 78% average. Late season fruit and vegetable harvest was winding down. Pumpkins were plentiful at direct marketing outlets during Halloween week. Topsoil moisture supplies were rated 50% adequate and 50% surplus.

WYOMING: Temperatures slightly above normal. Warmest 75°, lowest 13°. Precipitation above normal in northern and southeastern parts. Most precipitation 0.48 in. Remainder of State slightly below normal.

Topsoil moisture adequate 67% State. Average 6 days suitable for fieldwork. Sugarbeet harvest wind up stages. Corn for grain mature 95%; corn for grain harvested: 40%; last year 45%; normal 47%. Most winter wheat up to good stand, mostly good condition. Fall-winter grazing prospects fair to good. Stock water adequate 80% State. Livestock sold or delivered: Yearlings 65%, calves 50%, lambs 55%; year ago, yearlings 65%, calves 50%, lambs 75%.

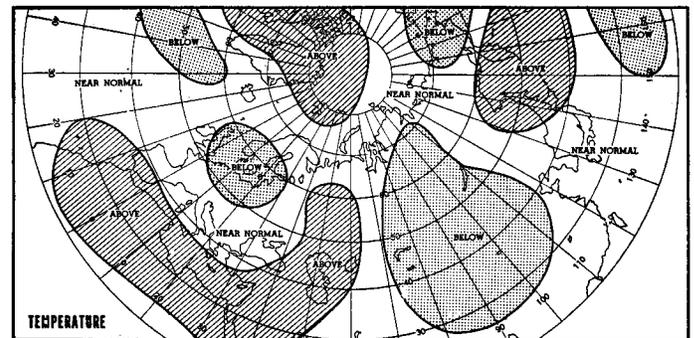
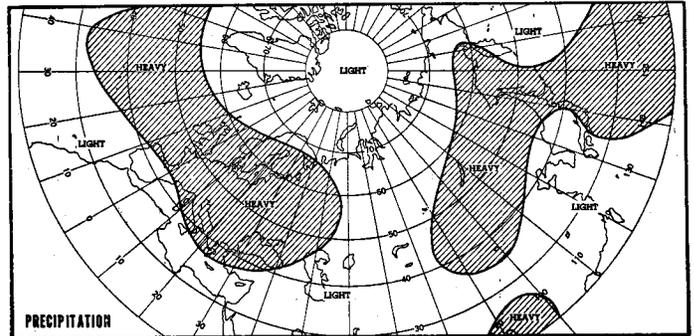
**OUTLOOK FOR 90-DAY AVERAGE TEMPERATURES
NOVEMBER 1981 THROUGH JANUARY 1982**



-  **A** ABOVE NORMAL, 60% CHANCE OF OCCURRENCE
-  **B** BELOW NORMAL, 60% CHANCE OF OCCURRENCE
-  **I** INDETERMINATE, 50% CHANCE OF ABOVE NORMAL
50% CHANCE OF BELOW NORMAL

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

EURASIA OUTLOOK FOR NOVEMBER

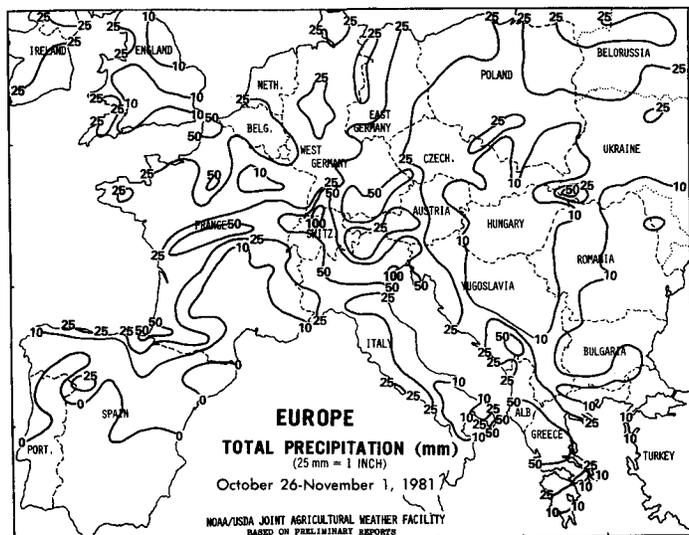


International Weather and Crop Summary

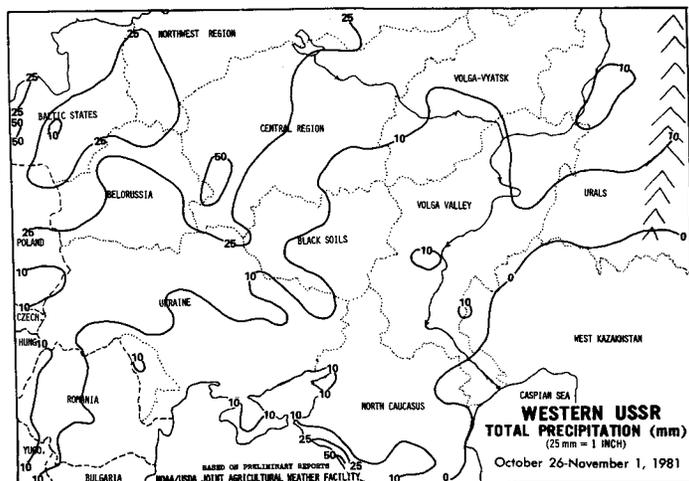
HIGHLIGHTS

Oct. 26-Nov. 1, 1981

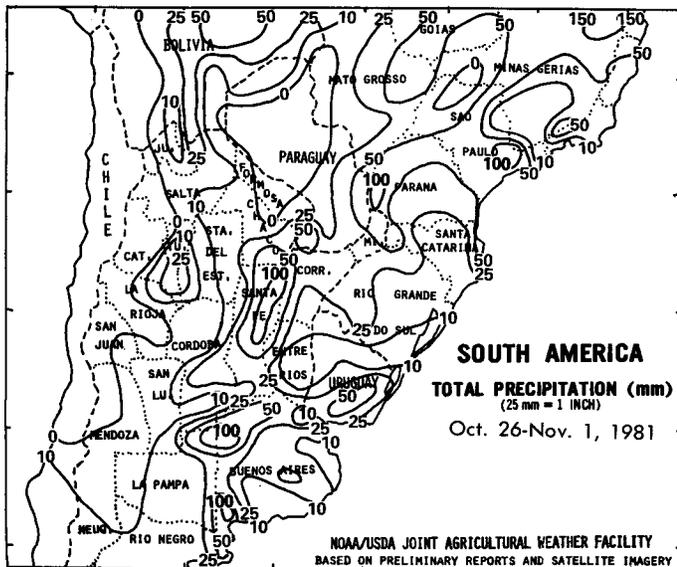
- USSR: Favorable conditions for winter grains.
- EUROPE: Too wet in many central and northwestern areas; too dry in southern Spain.
- NORTHWESTERN AFRICA: No significant rain yet in Morocco and western Algeria.
- SOUTH AFRICA: Relatively dry conditions slow corn planting.
- SOUTH ASIA: Heavy rain in Gujerat, India, detrimental to harvesting of groundnuts and cotton.
- EASTERN ASIA: Continued wet in the Yangtze Valley; still too dry in Hebei.
- SOUTHEAST ASIA: Beneficial showers in extreme south; dry in the north.
- AUSTRALIA: Showers favor wheat growth.
- SOUTH AMERICA: Rains break the persistent dry pattern in Argentina; showers in Brazil.
- MEXICO: Hurricane "Otis" hits southwestern coastal tobacco; mild, sunny days favor harvest in most other areas.



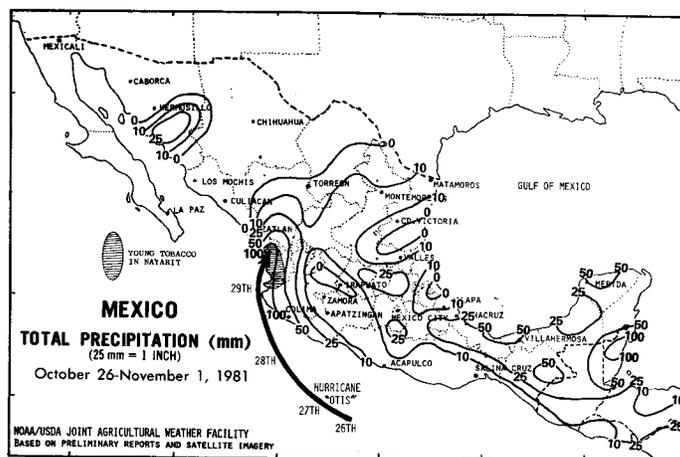
EUROPE: Precipitation slackened somewhat over much of the region, but remained above normal in many central and northwestern crop areas. The wetness was unfavorable for harvesting, and conditions in some areas, were too wet for winter grains. In Poland, continuing above-normal precipitation further improved winter grain prospects. Drier weather returned to much of the southeast, with soil moisture quite adequate for fall growth. Continued generous rainfall in Italy maintained favorable winter grain sowing conditions. Only parts of the Iberian Peninsula remained too dry. Northwestern portions of the Peninsula were adequately moist for winter grain sowing, but southern areas stayed too dry, especially in southeastern Spain.



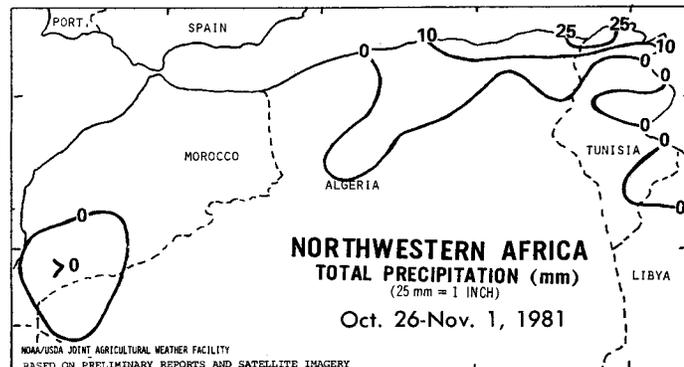
USSR: Precipitation slackened somewhat in most crop areas. However, amounts remained above normal in the northwestern half of European USSR, benefiting winter grains but maintaining unfavorable conditions for any sugarbeets left in the fields. The southeastern half of the winter grain belt had only light precipitation, but soils remained adequately moist. Temperatures stayed above normal throughout the region, allowing even the more northerly winter grains to continue some growth. Occasional subfreezing temperatures occurred over much of this northern area. Cotton harvesting weather remained favorable, with only scattered, light showers. Temperatures held generally above normal, but some subfreezing readings occurred in northern parts of the belt.



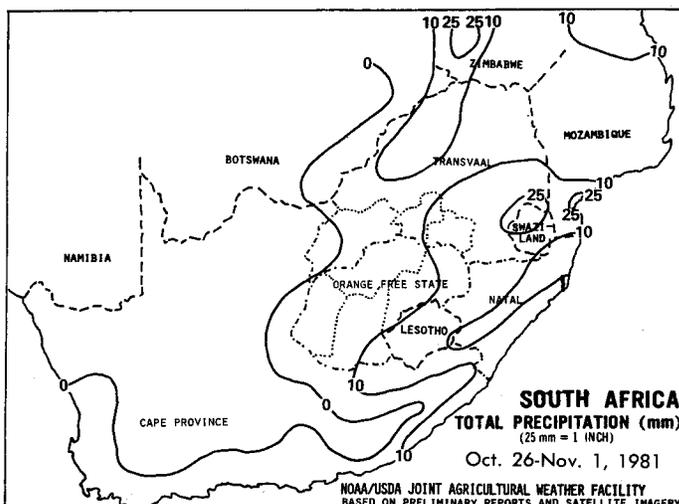
SOUTH AMERICA: The dry pattern which persisted over Argentina's major crop areas for several months was broken during the week by substantial rainfall. Weekly totals of 25 to 50 mm halted further deterioration of wheat yields but the stage of crop development (grain-filling) is beyond the point for significant recovery. The much-needed moisture is extremely beneficial, however, for spring sowing of corn, sorghum, soybeans and sunflowers. Locally heavy showers (75 to 100 mm) produced greater than average monthly amounts in western Buenos Aires. Although these showers may have caused excessive runoff due to the rainfall intensity, they greatly improved topsoil moisture levels. In Brazil, showers provided favorable growth conditions for corn, soybeans, and wheat but slowed the harvest of mature wheat.



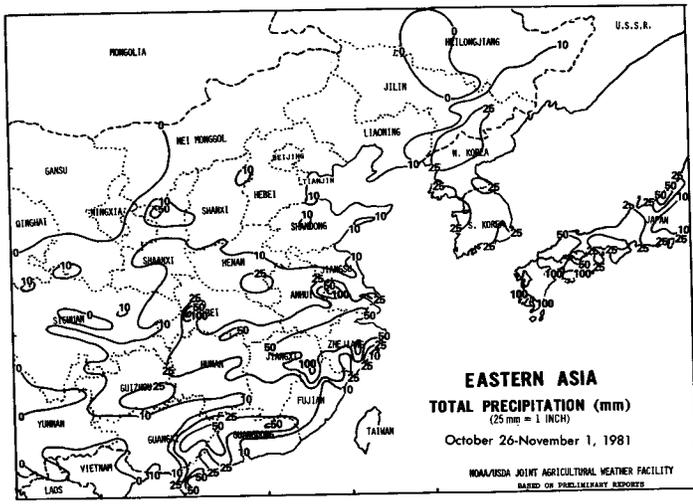
MEXICO: A late-season hurricane, "Otis," slammed into the southwestern coast of Mexico on the 29th, likely damaging some crops and slowing harvest. Satellite photos indicate that Otis brought heavy rains and high winds to Nayarit and coastal Jalisco, probably damaging young tobacco in the Tepic district and slowing corn harvest in the western southern Plains. Most other major production areas generally had mild, sunny weather favoring harvesting and current field operations.



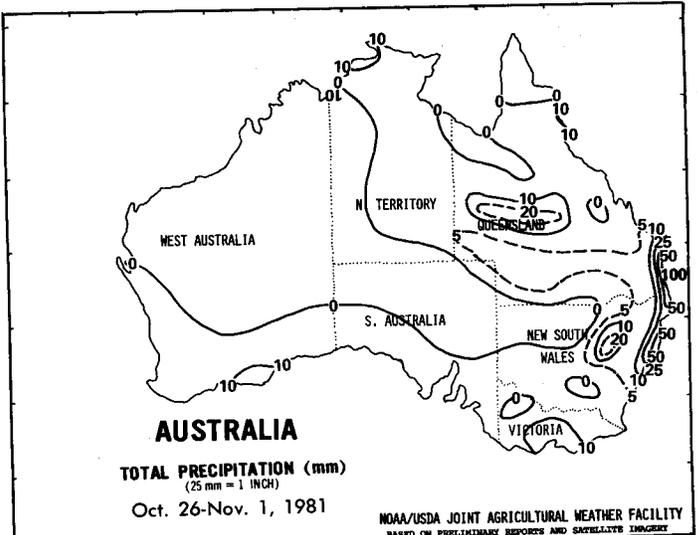
NORTHWESTERN AFRICA: The only substantial rainfall occurred early in the week in northern Tunisia and eastern Algeria. This was the tail end of the previous week's generous rains; winter grain sowing should now be in progress there. Morocco and western Algeria await the onset of autumn rains before sowing can begin.



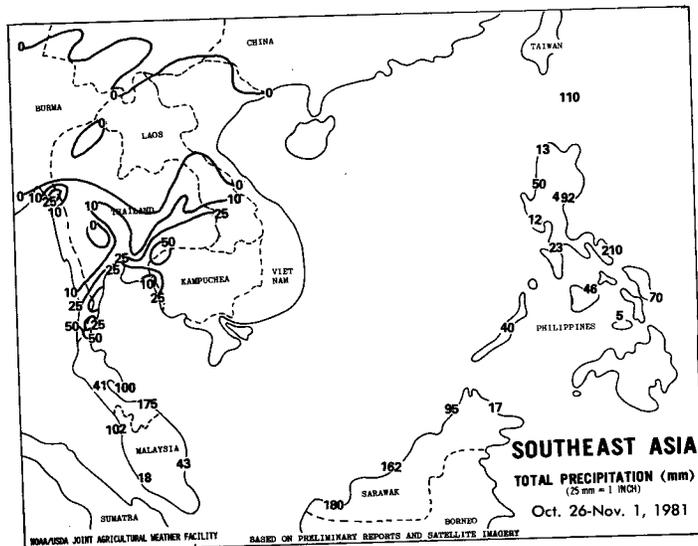
SOUTH AFRICA: Only scattered light showers fell on corn producing areas of the northwest Orange Free State and western Transvaal where 80% of the corn crop is grown. These persistent below-normal rains have reduced surface moisture to inadequate levels for seed germination and early growth. Therefore, corn planting is being delayed in those areas. Corn planting normally begins in mid-October and extends through mid-November. In the eastern Transvaal and Natal, where 20 percent of the corn crop is grown, beneficial rains have allowed corn planting to proceed at a normal pace. Temperatures remained below normal in the corn triangle again this week.



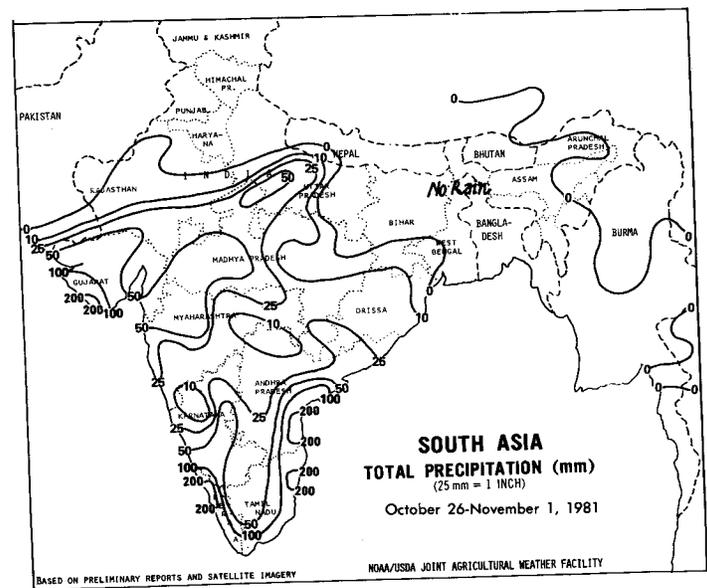
EASTERN ASIA: Rainfall increased to above normal in the Yangtze Valley as a front swept through over the weekend. Northern winter grain areas in Hebei and northern Henan received light precipitation, improving conditions slightly. However, crop prospects in that area remain less than favorable. Double-crop rice areas along the southern coast had continued generally favorable harvest weather, but above-normal rainfall in western Guangdong and eastern Guangxi impeded progress. In South Korea, above-normal precipitation benefited winter grains. Rice harvesting may have been impeded, but the bulk of the crop should be harvested by now.



AUSTRALIA: Scattered light showers fell on grain areas of northern New South Wales and southern Queensland, briefly interrupting harvest activity. Heavy rains were reported at a few east coastal locations outside of the grain area. Beneficial rain fell on some wheat areas of southern New South Wales, Victoria, and South Australia where wheat is normally in the filling stage. Light scattered showers fell on grain areas of Western Australia where the yield outlook remains favorable. Temperatures were near normal in West Australia and above normal in eastern grain areas.



SOUTHEAST ASIA: Showers were confined to southern portions of Thailand, benefiting the rice crop in the Central Plains and southeastern areas. Heavier rain fell in peninsular Thailand where weekly totals ranged 75-175 mm. Significant rainfall also occurred in Malaysia, Indonesia, and the Philippines, due to vigorous monsoon activity. Little or no rain fell in western and northern Thailand, and bordering countries as the post-monsoon dry season sets in.



SOUTH ASIA: A tropical storm moved westward over the Indian peninsula early in the week. The generous rains were mostly beneficial, but some local flooding may have occurred along the coast. The storm stayed well off the southwestern coast for most of the week, but then turned northeastward and re-entered the sub-continent along the India/Pakistan border at week's end. Heavy rain fell over much of Gujarat, where groundnut harvesting should be ending and cotton harvesting beginning. Groundnuts might be especially susceptible to damage. Rainfall extended northeastward into Uttar Pradesh, improving conditions for winter grain sowing.

