

# 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

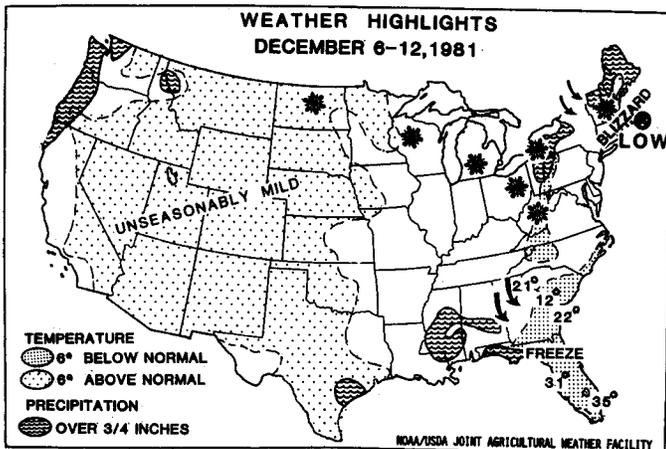
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Dec. 15, 1981

## National Weather Summary

December 6-12, 1981



NOTICE: The weekly period for National Weather Service's Climate Analysis Center data base used for U.S. and international maps, tables, and text has been moved back from Monday through Sunday to reflect the calendar week, Sunday through Saturday. Any exceptions will be noted.

**TUESDAY...** A low pressure center and associated cold front brought snow, gusty winds, and cold temperatures to the Northeast. Snow reached from the Great Lakes region and upper Ohio Valley to western New England and the central Appalachians. Showers of rain fell ahead of the front from Maryland northward. There were a few isolated showers along the Texas gulf coast and another storm system began spreading showers over the Northwest.

**WEDNESDAY...** Northerly winds brought cold weather to much of the East. Freezing temperatures crossed the Appalachians through the Northeast and to the western Carolinas and northern Alabama. Snow fell throughout the Great Lakes, southward to the Appalachians, and through the Northeast. A few rain-showers continued along the southern New England coast. A cold front in the Pacific Northwest produced showers from south central California through Oregon and Washington to the northern Rockies.

**THURSDAY...** Light snowshowers were widespread over the Northeast but became less frequent later in the day. Blustery northwesterly wind pushed cold temperatures southward in the East. Freezing temperatures reached Mississippi, Alabama, and northern Florida. A record cold temperature of 16° at Augusta, Ga., added to the necessary chill hours for dormant fruit trees in the area. Gusty wind and light showers covered western Washington and Oregon.

(Continued on page 27.)

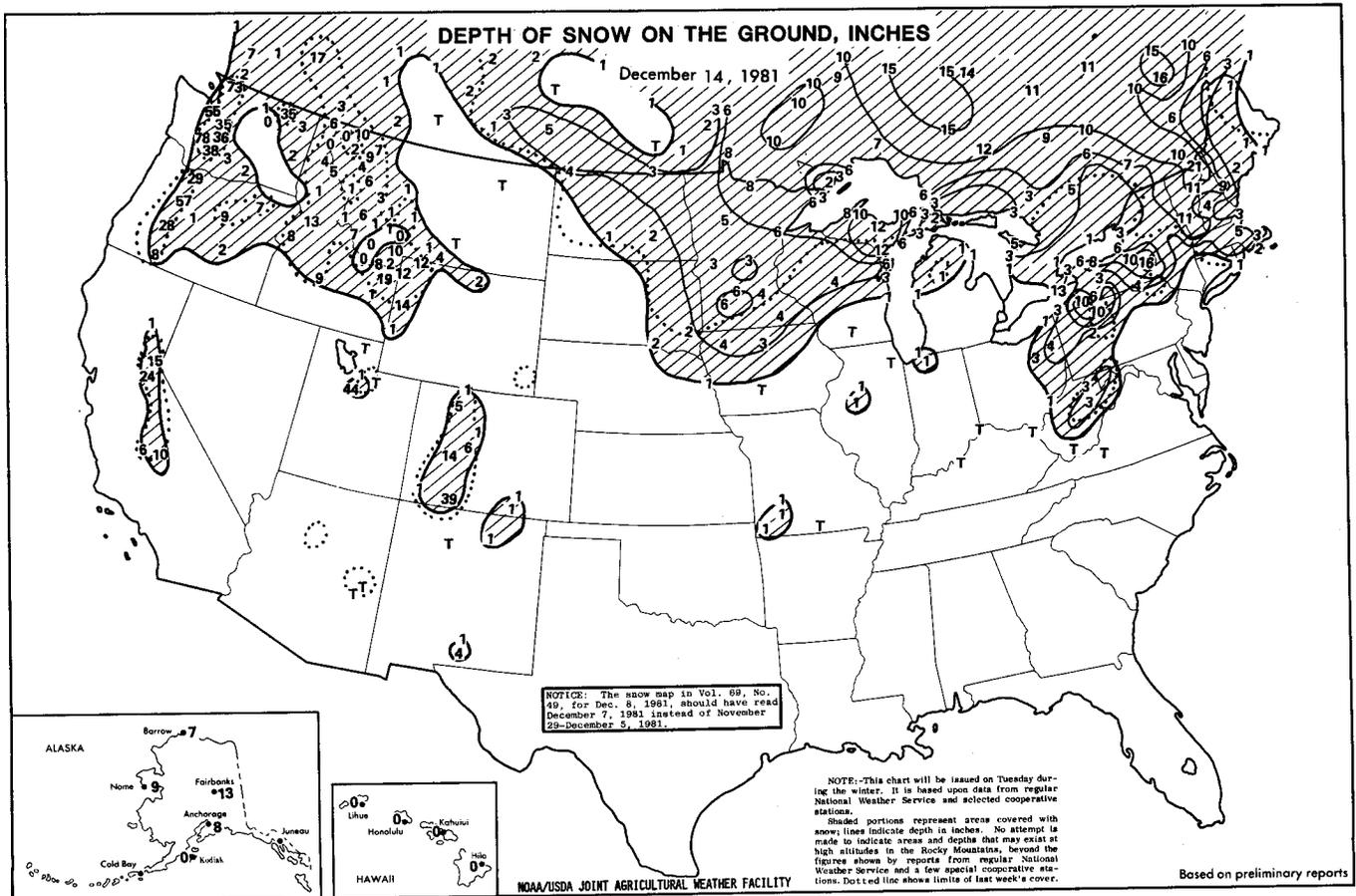
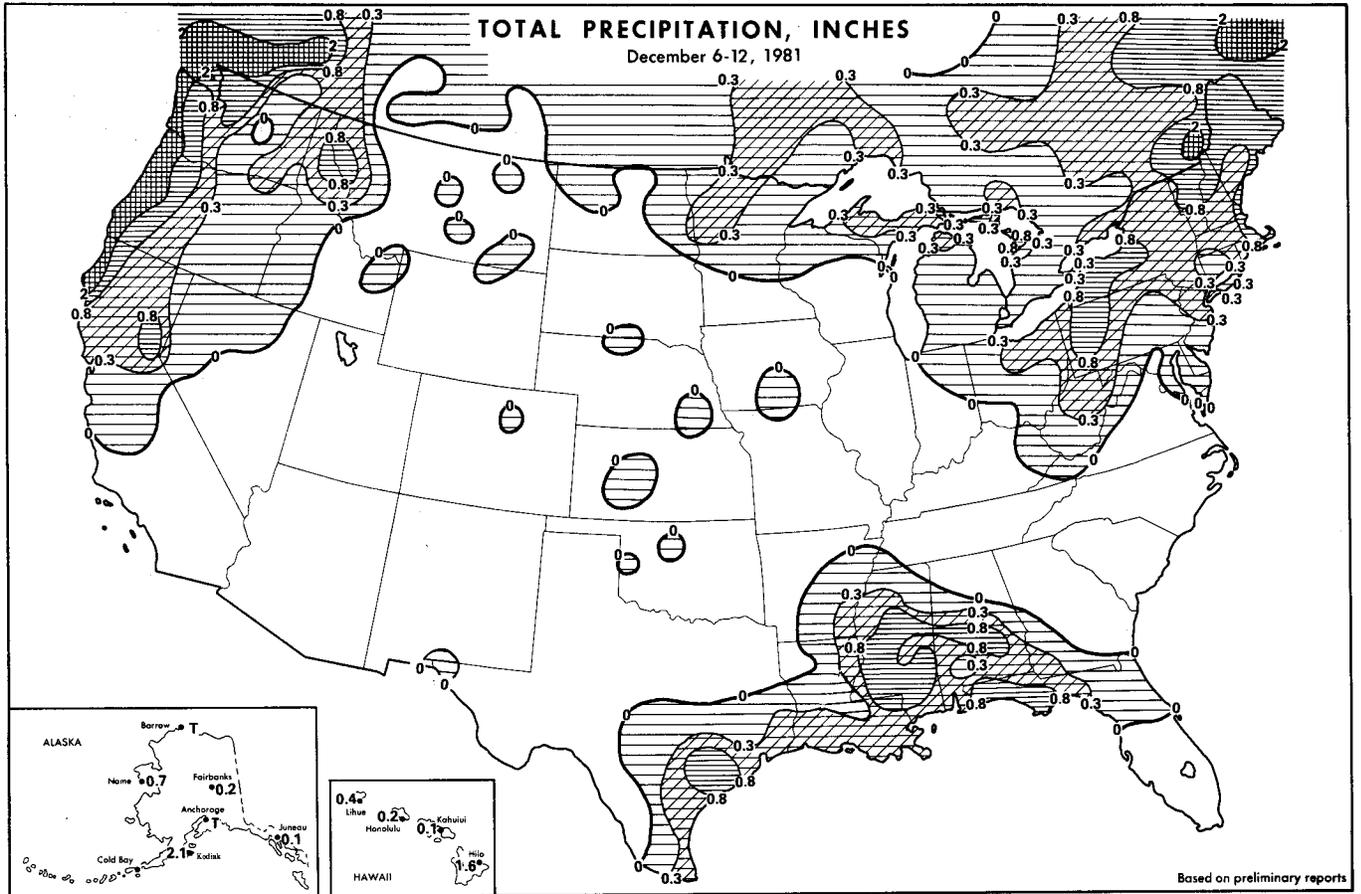
**HIGHLIGHTS:** An intense winter storm was in progress in southern New England as the week began. Cold northerly winds and heavy snow created blizzard conditions as the storm moved northward. The northerly winds bore freezing weather southward into central Florida, bringing some record low temperatures to Georgia and South Carolina. Average temperatures were colder than normal in most of the east. Parts of Florida, Georgia, and South Carolina were as much as 10° colder than normal. The West was warmer than normal. Parts of the western Plains and central Rockies were 12-17° above normal.

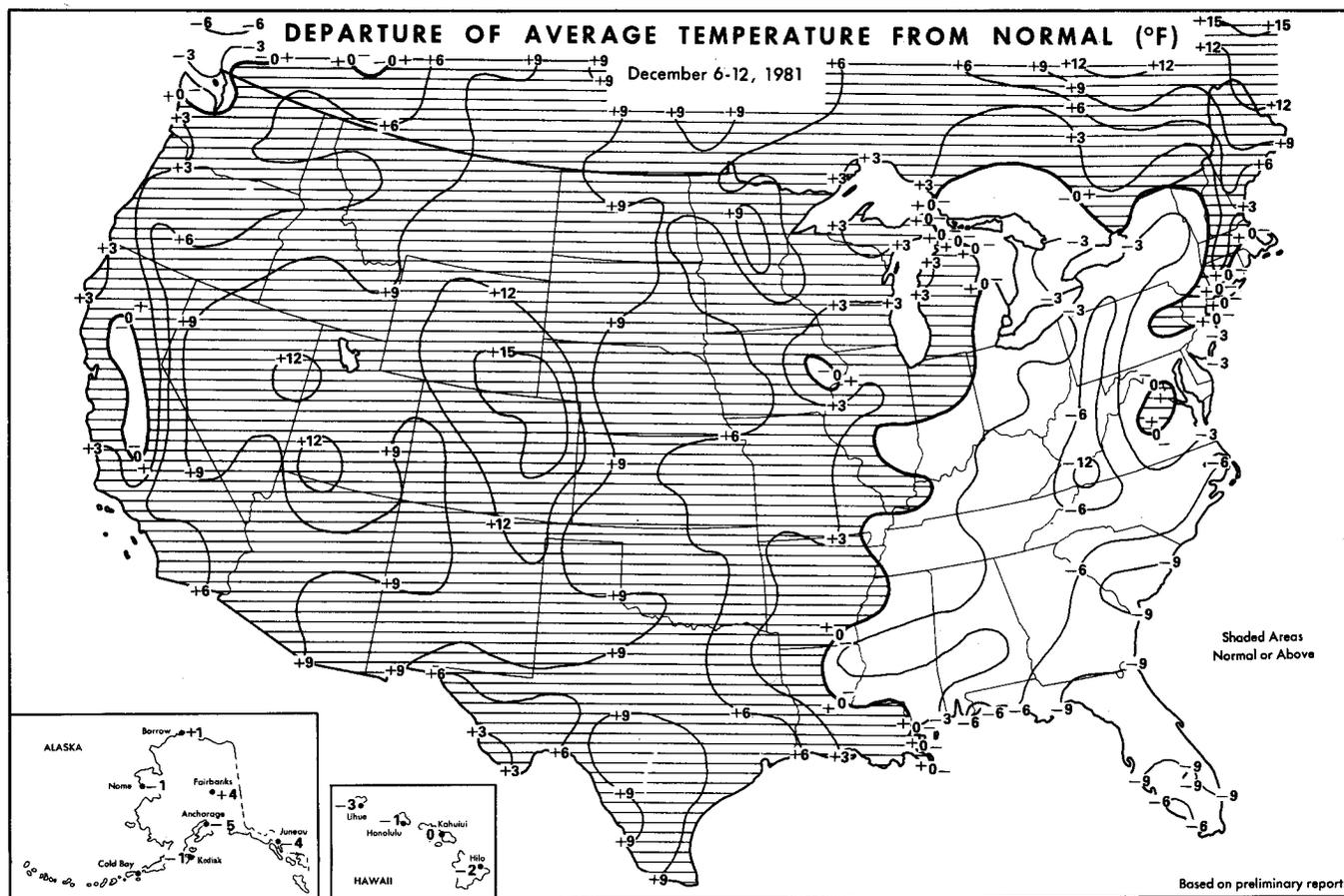
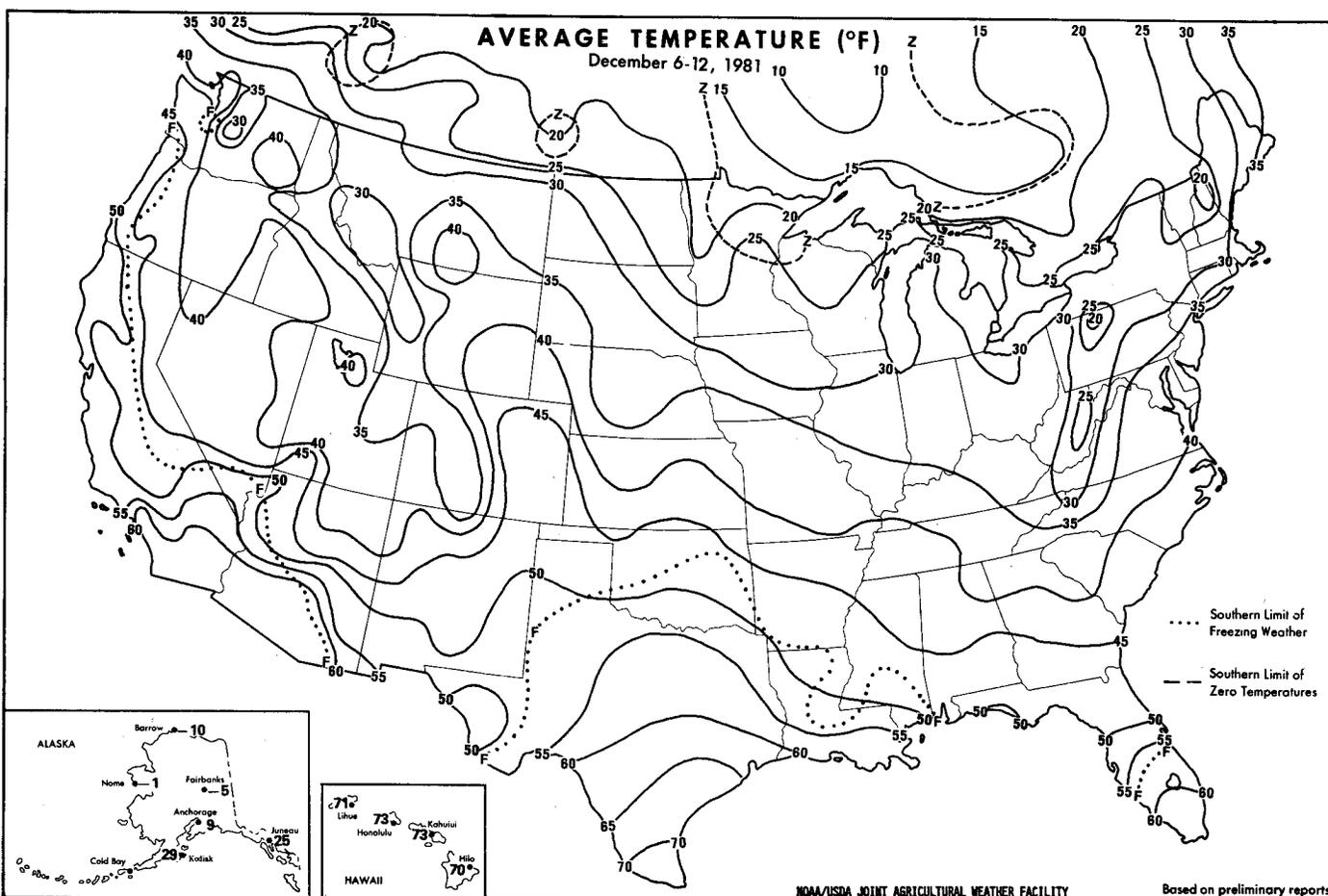
**SUNDAY...** An intense winter storm moved up the coast of New England and brought heavy snow and strong northerly winds which created blizzard conditions over most of New England. Snow depth measured 24 to 30 inches in southern New England but amounts tapered off to the west and north. Rain, with snow in the mountains, spread from northern California, Oregon, and Washington to the northern Rockies. Light rain was scattered from central Texas to the coast. Freezing weather covered the east coast as far south as northern Florida and across the South to Mississippi.

**MONDAY...** Light snow and some rain continued in northern New England but strong northwesterly winds prevailed over the entire Northeast. Light snow and freezing rain covered the Great Lakes region and moved into the central Appalachians, western Pennsylvania, and New York. Light rain also fell in eastern Maryland and Pennsylvania. Only a few scattered showers remained along the Texas coast and light rain or snow continued in the Pacific Northwest.

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NOTICE: Precipitation totals and percent of normal reported on pages 4-6 for the week ending Dec. 5, 1981 were incorrectly labeled "since Aug. 31" in Vol. 68, No. 49, for December 8, 1981. These columns should have read "since Nov. 29".

Weather Data for the Week Ending Dec. 12, 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 Nov. 29	PCT. NORMAL SINCE Nov. 29	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE °F			
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	54	32	68	26	43	-3	0	-1.2	0	2.7	117	37.9	76	80	29	0	5	0	0
MOBILE	60	38	75	32	49	-4	0	-.7	0	1.1	44	51.6	81	83	37	0	1	1	1
MONTGOMERY	58	36	72	31	47	-2	0	-.8	0	1.4	64	41.1	88	83	38	0	3	2	1
AK ANCHORAGE	16	2	28	-5	9	-5	T	-.3	T	.2	33	20.5	144	95	76	0	7	2	0
BARROW	-4	-16	16	-30	-10	1	T	-.1	T	-.1	50	--	--	84	63	0	7	1	0
FAIRBANKS	1	-10	9	-26	-5	4	T	-.1	T	-.4	133	10.1	96	73	49	0	7	4	0
JUNEAU	30	21	35	16	25	-4	0	-.1	0	-.8	35	51.0	98	84	58	0	7	2	0
KODIAK	35	24	44	15	29	-1	2.1	1.0	1.2	4.0	174	66.0	122	86	67	0	6	4	2
NOME	15	-7	27	-16	4	-1	0	-.7	0	1.5	175	16.1	105	80	52	0	7	3	0
AZ FLAGSTAFF	54	26	61	23	40	9	0	-.5	0	0	0	22.0	119	93	37	0	7	0	0
PHOENIX	76	52	84	50	64	11	0	-.2	0	-.5	125	6.9	110	71	26	0	0	0	0
TUCSON	76	47	83	42	61	9	0	-.2	0	-.6	150	13.9	135	56	17	0	0	0	0
WINSLOW	54	28	58	25	41	6	0	-.1	0	-.7	350	9.6	122	--	--	0	6	0	0
YUMA	78	52	83	50	65	8	0	-.1	0	-.1	50	1.6	52	51	24	0	0	0	0
AR FORT SMITH	55	36	69	29	46	3	0	-.7	0	1.8	129	40.4	99	88	43	0	1	0	0
LITTLE ROCK	54	38	68	28	46	2	T	-.9	T	1.1	61	41.5	91	83	50	0	1	1	0
CA BAKERSFIELD	56	44	64	41	50	1	T	-.1	T	0	0	5.6	106	87	63	0	0	0	0
EUREKA	59	47	66	39	53	4	2.5	1.0	-.9	2.8	97	35.9	99	94	62	0	0	4	3
FRESNO	51	40	58	38	46	-1	-.1	-.3	-.1	-.1	13	9.3	98	99	75	0	0	1	0
LOS ANGELES	68	52	82	49	60	3	0	-.4	0	0	0	9.6	90	94	55	0	0	0	0
RED BLUFF	53	43	59	40	48	1	0	-.7	-.3	-.7	44	27.4	136	97	80	0	0	4	0
SAN DIEGO	69	53	78	50	61	4	0	-.4	0	-.7	88	10.4	121	92	55	0	0	0	0
SAN FRANCISCO	57	47	61	39	52	1	0	-.6	-.2	-.3	18	20.2	115	91	70	0	0	2	0
STOCKTON	53	40	60	32	47	0	0	-.5	T	-.1	9	14.5	115	100	77	0	1	2	0
CO DENVER	63	33	71	24	48	14	T	-.1	T	-.2	100	12.3	81	55	20	0	3	1	0
GRAND JUNCTION	48	25	50	23	37	5	0	-.1	0	-.2	100	8.0	108	92	46	0	7	0	0
PUEBLO	67	30	74	22	49	14	T	-.1	T	0	0	7.1	58	58	20	0	4	0	0
CT BRIDGEPORT	40	28	49	12	34	-1	0	-.7	-.1	1.3	81	29.9	81	71	44	0	5	1	0
HARTFORD	38	27	45	24	33	3	0	-.7	-.2	1.4	70	32.6	79	73	45	0	7	3	0
DC WASHINGTON	47	34	56	31	40	2	0	-.7	T	-.6	43	29.6	80	69	39	0	3	0	0
FL APALACHICOLA	58	38	75	30	48	-8	0	-.2	-.9	1.6	107	36.3	65	76	38	0	2	1	1
DAYTONA BEACH	62	37	77	28	50	-11	0	-.3	-.1	-.5	63	37.2	75	84	34	0	2	1	0
FORT MYERS	72	47	79	39	59	-6	0	-.3	0	-.3	50	51.8	97	92	38	0	0	0	0
JACKSONVILLE	61	32	75	23	47	-10	T	-.5	T	-.7	78	33.3	63	83	32	0	3	1	0
KEY WEST	71	61	76	54	66	-6	0	-.4	0	0	0	26.9	68	83	49	0	0	0	0
MIAMI	71	51	79	40	61	-8	0	-.4	0	0	0	51.0	86	79	35	0	0	0	0
ORLANDO	65	40	75	33	52	-10	T	-.4	T	-.5	71	45.3	90	88	27	0	0	0	0
TALLAHASSEE	59	31	75	25	45	-9	0	-.4	-.5	1.4	78	47.3	80	92	32	0	4	1	1
TAMPA	64	39	72	31	52	-11	T	-.5	T	-.3	30	35.7	74	94	35	0	1	0	0
WEST PALM BEACH	67	44	74	35	56	-11	0	-.5	0	-.1	11	47.7	79	86	36	0	0	0	0
GA ATLANTA	50	29	67	21	39	-5	0	-.9	0	1.5	83	36.4	79	70	29	0	6	0	0
AUGUSTA	52	22	70	12	37	-10	0	-.8	0	1.0	67	36.3	89	86	27	0	6	0	0
MACON	56	32	73	23	44	-5	0	-1.0	0	-.7	39	40.7	96	77	30	0	4	0	0
SAVANNAH	56	31	74	22	43	-8	0	-.7	0	-.8	57	37.7	77	66	26	0	4	0	0
HI HILO	76	63	79	61	70	-2	1.6	-2.3	1.1	8.3	108	--	--	89	59	0	0	5	1
HONOLULU	79	68	82	66	73	-1	0	-.6	-.2	-.4	25	9.1	44	74	54	0	0	1	0
KAHULUI	79	67	82	62	73	0	0	-.5	-.1	-.6	50	--	--	73	52	0	0	1	0
LIHUE	76	65	80	62	71	-3	0	-1.1	-.2	-.7	24	--	--	80	53	0	0	2	0
ID BOISE	50	34	56	24	42	9	0	-.3	-.1	-.2	25	12.6	111	85	50	0	2	3	0
LEWISTON	46	35	56	24	40	4	0	-.1	-.1	-.2	40	13.0	102	89	65	0	2	2	0
POCATELLO	49	27	57	15	38	10	T	-.2	T	0	0	12.3	122	82	48	0	4	0	0
IL CAIRO	47	32	67	25	40	-1	0	-.9	0	-.7	39	38.6	85	--	--	0	4	0	0
CHICAGO	38	23	52	17	30	1	T	-.4	T	-.9	100	38.6	124	85	53	0	6	0	0
MOLINE	38	23	53	14	31	2	T	-.4	T	-.8	89	36.2	103	80	51	0	7	0	0
PEORIA	42	27	57	18	34	4	0	-.4	0	-.5	56	38.2	112	79	52	0	5	0	0
ROCKFORD	35	20	49	13	28	1	T	-.4	T	-.6	67	34.6	96	86	57	0	6	0	0
SPRINGFIELD	42	26	58	18	34	2	0	-.4	0	-.5	56	46.0	135	84	48	0	5	0	0
IN EVANSVILLE	46	28	64	21	37	0	T	-.8	T	-.8	53	41.2	103	78	48	0	6	0	0
FORT WAYNE	36	24	46	17	30	0	T	-.5	T	-.2	20	34.8	101	88	62	0	6	3	0
INDIANAPOLIS	39	24	51	18	31	-1	T	-.6	T	-.4	31	34.4	92	85	57	0	7	0	0
SOUTH BEND	37	24	48	15	31	1	0	-.4	-.1	-.7	64	37.0	105	86	62	0	6	4	0
IA BURLINGTON	40	25	51	16	33	3	T	-.3	T	-.6	100	--	--	86	50	0	7	0	0
DES MOINES	40	28	53	19	34	7	0	-.2	-.1	-.9	180	30.8	100	81	50	0	5	1	0
DUBUQUE	36	24	47	13	30	5	0	-.4	0	-.7	78	--	--	92	64	0	6	0	0
SIoux CITY	39	27	48	22	33	8	0	-.2	0	1.0	250	20.0	79	95	67	0	7	0	0
KS CONCORDIA	47	30	62	25	38	6	0	-.2	0	1.6	400	33.7	124	89	57	0	5	0	0
DODGE CITY	55	30	75	24	43	8	T	-.1	T	-.2	100	24.5	120	86	51	0	5	1	0
GOODLAND	56	30	70	25	43	12	T	-.1	T	-.9	450	22.3	134	83	41	0	5	0	0
TOPEKA	46	32	65	26	39	5	0	-.4	0	-.9	129	40.2	119	85	56	0	3	0	0
WICHITA	52	32	66	29	42	6	T	-.3	T	-.9	180	27.6	91	88	54	0	5	0	0
KY LEXINGTON	42	25	58	16	34	-3	T	-.8	T	-.6	35	33.4	79	88	52	0	6	0	0
LOUISVILLE	44	27	60	19	35	-1	T	-.8	T	1.4	88	32.0	77	78	45	0	5	0	0
LA BATON ROUGE	64	44	77	39	54	0	0	-1.1	-.1	-.6	26	38.4	75	85	49	0	0	1	0

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

Weather Data for the Week Ending Dec. 12, 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 Nov. 29	PCT. NORMAL SINCE Nov. 29	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE °F		PRECIPI- TATION	
																90 AND ABOVE	72 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
LAKE CHARLES	69	47	76	37	58	3	.6	-.8	.6	.8	30	48.2	92	93	51	0	0	1	1
NEW ORLEANS	66	45	77	40	56	0	.4	-.8	.4	1.0	42	50.2	93	89	50	0	0	0	0
SHREVEPORT	62	41	75	35	52	1	0	-.9	0	1.0	56	40.6	96	88	48	0	0	0	0
ME CARIBOU	36	28	43	18	32	13	.9	-.3	.4	1.7	131	44.7	126	90	73	0	6	6	0
PORTLAND	37	28	43	23	33	5	.8	-.2	.7	1.9	90	44.0	113	85	55	0	7	5	1
MD BALTIMORE	42	30	51	23	36	-1	1.1	-.7	1.1	.8	50	28.8	75	72	39	0	5	2	0
MA BOSTON	37	28	42	27	33	-2	1.1	-.1	1.1	3.5	175	33.0	83	87	54	0	7	4	1
CHATHAM	37	31	40	29	34	-	1.6	-	1.1	4.2	-	42.2	-	93	72	0	6	5	1
MI ALPENA	31	22	39	13	27	1	1.1	-.4	1.1	.3	30	20.5	76	88	66	0	6	3	0
DETROIT	35	24	44	20	29	-1	T	-.5	T	.4	40	31.6	103	83	55	0	6	1	0
FLINT	33	22	43	17	27	-1	.2	-.3	1.1	.4	44	33.5	116	92	69	0	7	2	0
GRAND RAPIDS	37	25	44	22	31	2	T	-.5	T	.4	36	44.4	141	78	56	0	6	1	0
HOUGHTON LAKE	30	22	38	15	26	1	1.1	-.4	1.1	.2	20	29.6	105	86	68	0	6	3	0
LANSING	35	25	44	20	30	1	T	-.4	T	1.1	11	30.7	106	91	63	0	6	2	0
MARQUETTE	26	14	33	0	20	0	.7	-.2	.4	1.2	100	31.4	89	96	63	0	7	4	0
MUSKEGON	36	27	44	22	32	1	1.1	-.5	T	.7	58	31.6	104	82	64	0	6	2	0
SAULT STE. MARIE	26	14	35	2	20	-2	.2	-.4	.2	.9	69	27.1	87	80	64	0	7	2	0
MN DULUTH	27	16	34	-3	22	5	1.1	-.2	1.1	1.1	17	27.3	93	88	65	0	7	2	0
INT'L FALLS	25	13	30	-3	19	8	.3	0	.2	.4	67	21.8	85	96	75	0	7	3	0
MINNEAPOLIS	33	22	39	10	28	6	T	-.2	T	.4	100	26.8	105	88	64	0	7	1	0
ROCHESTER	30	20	37	5	25	4	T	-.2	T	.4	100	32.6	120	94	68	0	7	0	0
SAINT CLOUD	31	18	38	2	24	6	1.1	-.1	1.1	.3	75	24.6	92	91	72	0	7	2	0
MS JACKSON	59	35	75	30	47	-3	1.1	-.1	.8	2.4	104	43.2	93	88	40	0	4	2	1
MERIDIAN	60	33	74	30	47	-2	.9	-.4	.9	2.4	96	39.0	81	82	32	0	5	2	1
MO COLUMBIA	44	30	62	21	37	3	T	-.4	T	1.0	125	47.6	129	91	53	0	5	0	0
KANSAS CITY	44	32	62	24	38	5	0	-.4	0	1.4	200	41.8	115	77	52	0	3	0	0
SAINT LOUIS	46	30	65	23	38	2	0	-.5	0	1.0	100	43.6	126	89	45	0	5	0	0
SPRINGFIELD	49	32	64	25	41	3	T	-.6	T	1.5	136	42.2	109	83	41	0	5	0	0
MT BILLINGS	50	30	64	15	40	11	T	-.1	T	0	0	15.6	112	81	39	0	4	1	0
GLASGOW	38	25	52	15	32	12	T	-.1	T	0	0	8.6	77	84	59	0	7	1	0
GREAT FALLS	46	23	57	11	34	6	T	-.1	T	0	0	14.0	97	76	35	0	7	0	0
HAVRE	40	21	50	8	30	10	0	-.1	0	0	0	9.5	83	91	52	0	7	0	0
HELENA	43	24	55	12	34	8	T	1.1	T	0	0	13.4	126	84	48	0	6	0	0
KALISPELL	38	27	45	13	33	7	.2	1.1	1.1	.8	114	17.6	109	93	65	0	6	3	0
MILES CITY	41	25	55	17	33	9	T	-.1	T	0	0	10.5	78	92	59	0	7	0	0
MISSOULA	37	26	46	14	31	5	.8	-.6	.6	1.0	250	16.3	128	98	72	0	6	5	1
NE GRAND ISLAND	42	27	55	25	35	6	T	-.1	T	2.0	667	23.1	100	90	65	0	7	0	0
LINCOLN	42	29	56	24	36	6	T	-.2	T	1.5	375	23.6	90	90	60	0	6	1	0
NORFOLK	41	27	51	22	34	8	0	-.1	0	1.5	500	21.0	89	92	63	0	7	0	0
NORTH PLATTE	45	23	61	21	34	6	T	-.1	T	1.2	600	23.5	119	97	65	0	7	0	0
OMAHA	41	28	52	21	35	7	0	-.2	0	1.8	450	28.3	97	87	69	0	6	0	0
VALENTINE	42	26	56	22	34	8	1.1	-.1	1.1	.7	700	18.1	102	92	62	1	7	0	0
NV ELY	57	23	63	18	40	12	0	-.2	0	0	0	10.1	138	76	30	0	7	0	0
LAS VEGAS	65	40	67	38	53	6	0	-.1	0	0	0	3.1	76	71	31	0	0	0	0
RENO	56	28	63	21	42	8	T	-.2	T	0	0	5.6	85	83	34	0	5	1	0
WINNEMUCCA	55	28	65	17	42	10	-1	-.1	-1	1.1	25	7.0	88	79	40	0	5	1	0
NH CONCORD	34	24	37	18	29	2	.6	-.2	.4	1.8	106	43.7	127	82	57	0	7	3	0
NJ ATLANTIC CITY	41	28	50	19	34	-2	1.1	-.8	1.1	1.5	79	-	-	87	51	0	5	1	0
TRENTON	40	31	46	26	35	-2	.2	-.5	.2	1.6	114	37.5	98	60	38	0	5	1	0
NM ALBUQUERQUE	61	30	66	25	46	8	0	-.1	0	.2	100	7.7	101	74	26	0	6	0	0
ROSWELL	68	34	75	25	51	10	0	-.1	0	0	0	24.5	227	66	21	0	5	0	0
NY ALBANY	31	22	40	18	26	-2	.5	-.2	.3	1.1	79	28.1	88	83	59	0	7	2	0
BINGHAMTON	29	21	38	18	25	-2	.4	-.2	.3	1.0	77	28.9	81	93	67	0	7	4	0
BUFFALO	32	22	41	17	27	-2	.8	-.1	.3	1.3	87	34.9	101	95	73	0	7	5	0
NEW YORK	40	31	46	27	36	-1	.3	-.5	.3	1.5	88	31.4	79	71	45	0	4	3	0
ROCHESTER	32	23	39	19	27	-3	1.0	-.4	.4	1.2	100	33.8	112	95	77	0	7	4	0
SYRACUSE	31	22	37	18	27	-4	1.1	-.4	.4	1.4	93	33.8	97	95	75	0	7	5	0
NC ASHEVILLE	48	26	62	20	37	-2	T	-.8	T	1.1	69	30.4	70	78	37	0	6	0	0
CHARLOTTE	50	27	65	20	39	-4	T	-.8	T	1.1	73	32.5	79	73	32	0	6	0	0
GREENSBORO	47	23	59	18	35	-5	T	-.7	T	.5	36	36.1	92	76	31	0	6	0	0
HATTERAS	47	35	61	29	41	-8	0	-1.1	0	3.0	143	47.7	89	65	43	0	3	0	0
RALEIGH	50	27	65	21	39	-4	0	-.7	0	.3	21	31.8	78	69	29	0	6	0	0
WILMINGTON	52	30	68	23	41	-8	0	-.8	0	.8	50	39.3	76	62	26	0	5	0	0
ND BISMARCK	35	21	47	14	28	10	T	-.1	T	.2	67	14.1	89	92	73	0	7	0	0
FARGO	27	13	35	4	20	4	.4	.3	.3	.4	200	17.4	89	92	74	0	7	2	0
WILLISTON	39	25	49	12	32	14	T	-.1	T	1.1	50	11.0	79	90	68	0	7	1	0
OH AKRON-CANTON	35	26	46	21	31	0	.6	0	.3	1.3	108	39.0	114	82	59	0	7	5	0
CINCINNATI	39	22	52	16	31	-5	T	-.6	T	1.2	92	33.0	89	79	53	0	7	0	0
CLEVELAND	36	28	46	25	32	0	.5	-.1	.2	1.2	100	37.0	108	75	54	0	6	5	0
COLUMBUS	36	24	47	19	30	-2	T	-.5	T	.7	64	35.7	101	90	63	0	7	2	0
DAYTON	39	24	50	18	31	-1	T	-.5	T	.8	73	40.9	124	92	68	0	7	1	0
TOLEDO	35	24	44	19	29	0	T	-.5	T	.7	64	36.3	118	84	58	0	6	1	0
YOUNGSTOWN	35	25	44	20	30	0	.7	-.1	.3	1.4	108	33.7	93	94	71	0	7	4	0
OK OKLAHOMA CITY	60	38	68	33	49	7	T	-.3	T	.5	83	38.6	124	90	49	0	0	0	0

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

Weather Data for the Week Ending Dec. 12, 1981

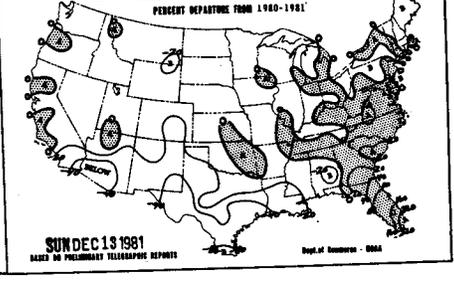
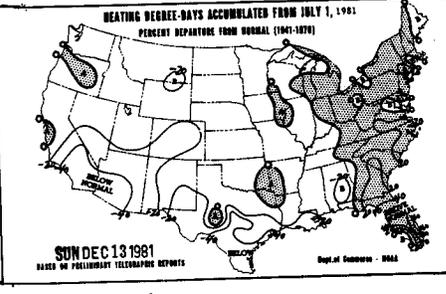
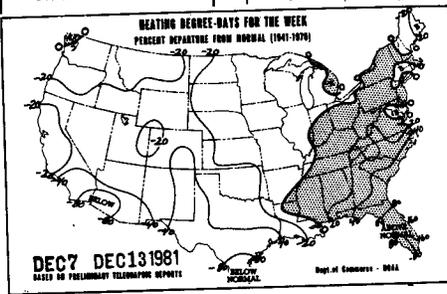
STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Nov. 29	PCT. NORMAL SINCE Nov. 29	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	57	38	71	32	47	6	0	-.4	0	.8	89	36.9	102	93	52	0	2	0	0
OR ASTORIA	53	40	61	35	47	3	2.6	-.1	1.5	8.5	173	63.1	106	91	65	0	0	2	2
OR BURNS	44	28	53	15	36	6	.1	-.3	.1	.2	25	11.9	109	94	64	0	6	5	0
OR MEDFORD	52	39	62	32	46	7	1.4	-.6	.9	2.5	156	16.5	87	96	67	0	1	4	1
OR PENDLETON	45	34	55	24	39	2	.6	.2	.5	.9	113	13.9	115	93	68	0	2	3	1
OR PORTLAND	50	39	52	30	45	3	1.7	.4	1.0	4.6	170	30.2	88	98	70	0	2	5	1
OR SALEM	50	38	57	30	44	2	1.5	0	.5	4.3	143	35.6	96	89	69	0	2	5	1
PA ALLENTOWN	37	28	44	24	33	0	.3	-.6	.3	1.4	78	33.0	81	66	47	0	6	1	0
PA ERIE	35	28	44	23	32	1	.5	-.2	.3	1.0	71	40.3	110	73	52	0	6	3	0
PA HARRISBURG	38	28	45	22	33	-1	.1	-.6	.1	.9	60	33.4	96	77	44	0	4	1	0
PA PHILADELPHIA	41	30	47	23	35	-1	.1	-.7	.1	1.5	94	34.3	90	71	43	0	6	1	0
PA PITTSBURGH	33	24	44	20	29	-3	.7	-.1	.3	1.7	142	35.7	103	83	56	0	7	6	0
PA SCRANTON	32	25	39	22	29	-2	.3	-.4	.2	1.0	77	34.5	103	80	63	0	7	4	0
RI PROVIDENCE	34	26	39	24	30	-3	.7	-.3	.7	3.2	160	33.4	82	79	53	0	7	3	1
SC CHARLESTON	53	29	71	18	41	-9	0	-.7	0	1.1	79	45.8	91	77	28	0	6	0	0
SC COLUMBIA	54	27	70	19	40	-7	0	-.8	0	1.0	67	31.8	71	78	23	0	6	0	0
SC GREENVILLE	51	28	67	19	39	-4	0	-.9	0	1.9	106	29.6	66	68	28	0	6	0	0
SD ABERDEEN	32	24	45	20	28	9	--	--	--	--	--	--	--	89	76	0	7	--	--
SD HURON	34	24	42	17	29	8	T	-.1	T	1.0	500	15.4	80	96	81	0	7	0	0
SD RAPID CITY	51	26	65	16	38	10	0	-.1	0	0	0	14.1	81	78	42	0	6	0	0
SD SIOUX FALLS	34	24	42	19	29	7	T	-.2	T	.5	125	17.7	72	89	70	0	7	0	0
TN CHATTANOOGA	47	28	60	24	37	-5	0	-1.2	0	2.3	100	42.0	88	77	38	0	6	0	0
TN KNOXVILLE	46	28	60	25	37	-5	T	-1.0	T	1.3	65	40.5	93	74	37	0	6	0	0
TN MEMPHIS	51	37	65	28	44	0	T	-1.0	T	1.2	60	37.7	81	78	39	0	2	1	0
TN NASHVILLE	49	30	66	24	39	-2	0	-1.0	0	1.7	89	39.3	90	74	36	0	5	0	0
TX ABILENE	66	45	75	42	56	8	0	-.2	0	.4	100	27.4	118	91	51	0	0	0	0
TX AMARILLO	65	31	76	29	48	8	T	-.1	T	.2	67	21.3	110	86	31	0	6	0	0
TX AUSTIN	69	56	80	49	62	9	.1	-.5	.1	.2	18	45.8	145	93	66	0	0	1	0
TX BEAUMONT	71	54	79	47	62	7	.5	-.6	.5	.8	36	47.2	90	95	64	0	0	3	0
TX BROWNSVILLE	81	63	85	60	72	8	.7	-.4	.4	.7	117	30.2	122	95	59	0	0	4	0
TX CORPUS CHRISTI	76	59	85	56	67	7	.5	-.1	.5	.6	86	43.6	157	100	66	0	0	2	0
TX DEL RIO	75	49	79	45	62	9	T	-.1	T	0	0	27.3	163	89	54	0	0	0	0
TX EL PASO	69	33	72	30	51	6	T	0	T	.1	100	12.6	166	84	24	0	4	1	0
TX FORT WORTH	62	47	69	40	54	5	T	-.4	T	.4	50	44.6	142	97	67	0	0	0	0
TX GALVESTON	70	59	77	51	64	6	.6	-.2	.6	.9	53	34.5	86	98	71	0	0	2	1
TX HOUSTON	72	53	82	46	63	7	.2	-.7	.2	3.8	200	54.1	117	98	63	0	0	2	0
TX LUBBOCK	66	38	77	34	52	9	0	-.1	0	.5	167	22.9	127	88	35	0	0	0	0
TX MIDLAND	71	38	75	34	54	7	T	-.1	T	0	0	17.4	133	87	30	0	0	0	0
TX SAN ANGELO	69	42	74	41	56	6	T	-.1	T	0	0	30.0	175	98	52	0	0	0	0
TX SAN ANTONIO	72	53	79	48	63	8	.2	-.2	.2	.3	43	37.0	135	100	59	0	0	1	0
TX VICTORIA	74	56	80	52	65	7	.9	-.4	.5	.9	90	44.6	134	99	65	0	0	3	0
TX WACO	65	49	72	44	57	6	T	-.5	T	.5	50	33.3	110	97	71	0	0	0	0
TX WICHITA FALLS	66	42	74	37	54	8	T	-.3	T	.7	117	31.2	115	96	45	0	0	0	0
UT BLANDING	52	28	55	26	40	9	T	-.3	T	.1	17	12.0	108	86	65	0	7	0	0
UT SALT LAKE CITY	55	31	65	26	43	11	0	-.4	0	0	0	14.7	101	87	42	0	5	0	0
VT BURLINGTON	28	20	30	13	24	-1	.8	-.2	.5	.9	75	40.7	131	85	69	0	7	6	0
VA LYNCHBURG	43	26	54	21	34	-5	0	-.7	0	.5	36	32.5	89	65	36	0	6	0	0
VA NORFOLK	47	33	63	27	40	-4	0	-.7	0	.9	64	36.3	84	64	35	0	4	0	0
VA RICHMOND	48	29	64	24	39	-1	T	-.8	T	.7	44	31.9	78	70	35	0	5	0	0
VA ROANOKE	42	25	56	20	33	-5	T	-.7	T	.6	43	28.2	75	69	39	0	7	0	0
WA COLVILLE	41	31	46	18	36	7	.3	-.2	.1	1.2	120	23.6	151	96	76	0	3	4	0
WA OMAK	45	30	54	20	37	--	.1	--	.1	.6	--	12.3	--	--	0	3	4	0	0
WA QUILLAYUTE	47	34	53	29	40	-1	3.7	-.2	1.4	10.5	150	98.4	99	96	73	0	3	6	4
WA SEATTLE-TACOMA	47	38	51	32	42	1	.6	-.8	.3	2.2	81	32.2	91	89	65	0	2	4	0
WA SPOKANE	43	33	53	21	38	8	.5	0	.3	1.2	120	13.7	83	90	65	0	3	4	0
WA WALLA-WALLA	45	37	54	28	41	4	.4	0	.3	1.9	211	21.5	138	93	68	0	1	3	0
WA YAKIMA	47	31	53	23	39	6	.1	-.1	.1	.3	60	6.8	96	93	62	0	3	2	0
WV BECKLEY	32	20	47	15	26	-8	.1	-.6	.1	.5	36	34.5	85	95	62	0	7	3	0
WV CHARLESTON	39	24	56	21	32	-5	.1	-.6	.1	.4	29	33.8	86	88	53	0	7	3	0
WV HUNTINGTON	40	25	57	21	33	-4	.1	-.6	T	.3	20	35.5	95	73	48	0	7	2	0
WV PARKERSBURG	39	27	53	21	33	-3	T	-.6	T	.6	50	30.2	82	78	51	0	7	2	0
WI GREEN BAY	33	19	41	12	26	3	T	-.3	T	.3	43	22.8	85	94	60	0	7	0	0
WI LA CROSSE	33	21	40	9	27	3	T	-.3	T	.6	100	34.1	119	93	72	0	7	0	0
WI MADISON	34	17	49	9	26	2	T	-.3	T	.5	83	31.7	107	93	60	0	6	0	0
WI MILWAUKEE	34	21	49	15	28	2	T	-.4	T	.5	63	32.8	118	81	53	0	6	0	0
WY CASPER	53	28	59	15	40	13	0	-.1	0	0	0	10.7	101	73	28	0	5	0	0
WY CHEYENNE	57	31	64	16	44	14	0	-.1	0	.1	33	16.2	111	64	25	0	5	0	0
WY LANDER	51	24	62	12	38	13	0	-.1	0	0	0	10.1	75	72	27	0	7	0	0
WY SHERIDAN	52	24	71	7	38	11	.2	0	.2	.2	50	13.6	86	75	35	0	5	1	0
PR SAN JUAN	85	73	91	71	79	2	5.5	4.4	3.8	6.0	261	62.7	111	97	72	3	0	5	2

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

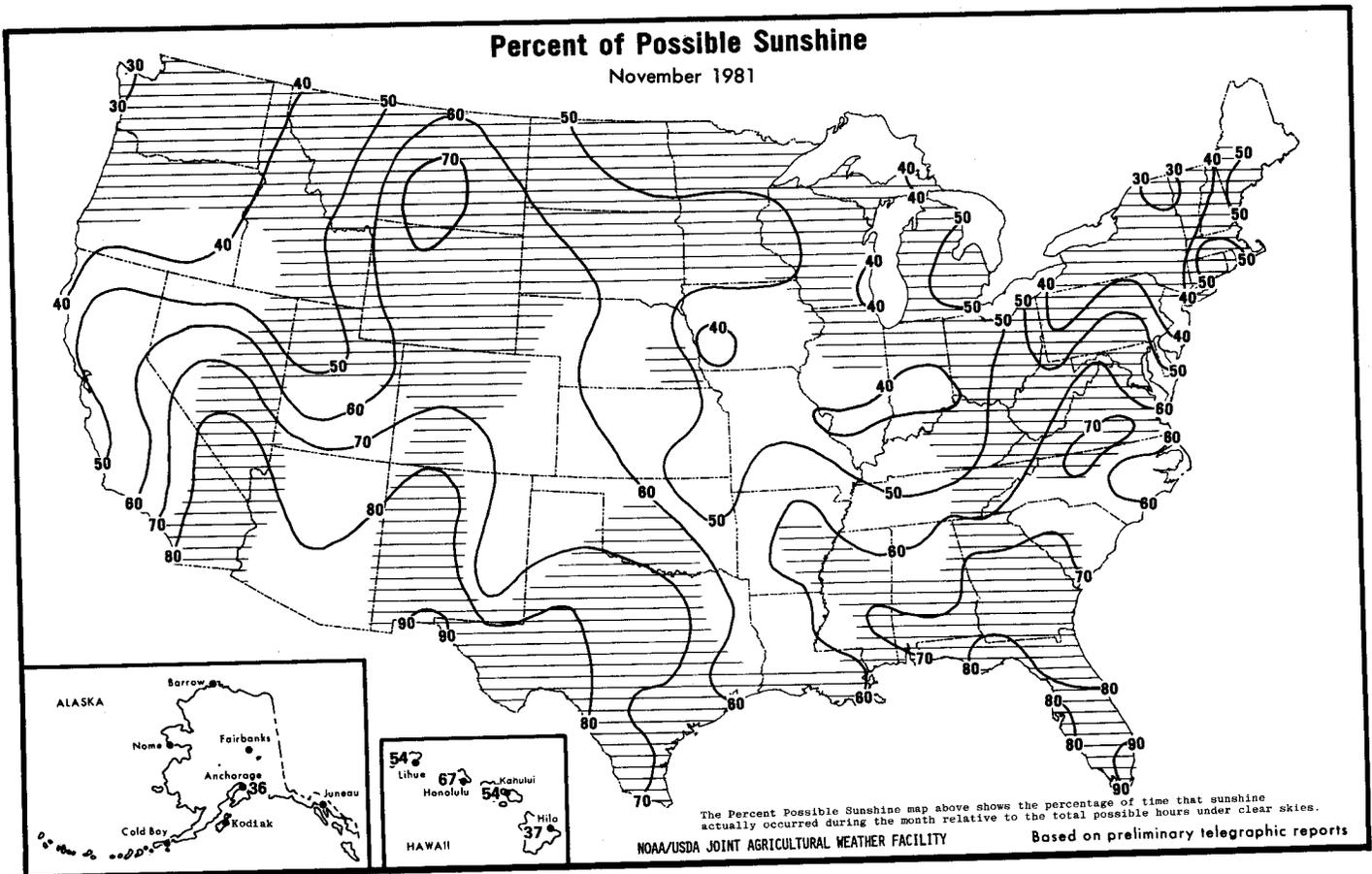
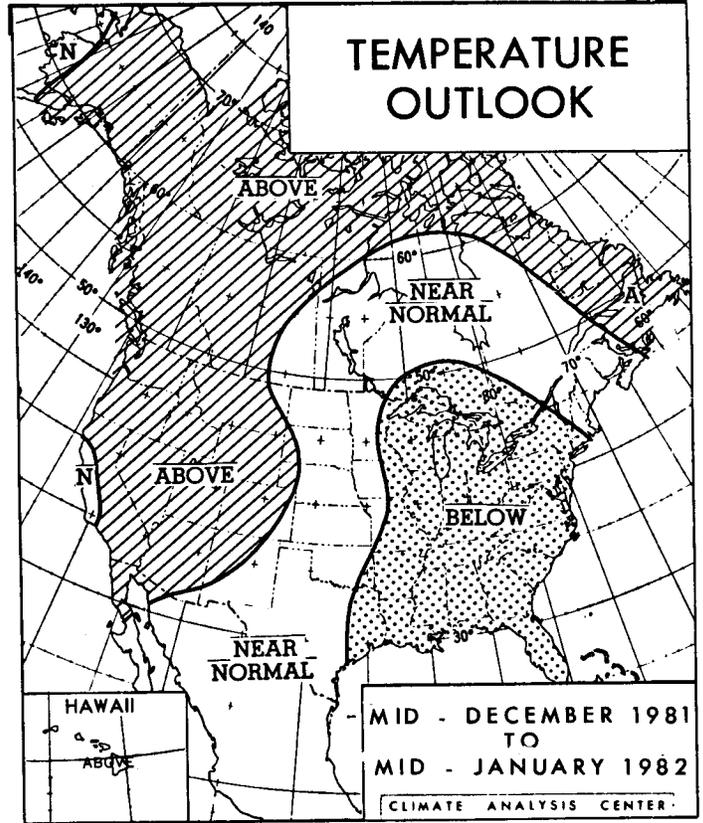
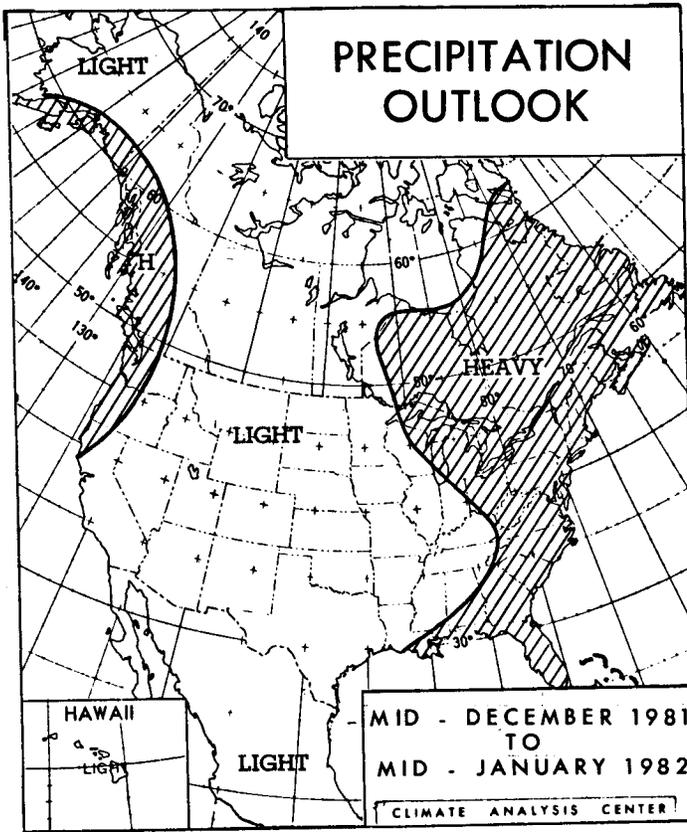
HEATING DEGREE DAYS (BASE 65°) FOR WEEK ENDING DEC. 13, 1981.

BASED ON 1941-70 NORMALS. + ACCUMULATION FROM JULY 1, 1981.

Table with columns for STATES AND STATIONS, WEEKLY ACCUMULATION, and SEASONAL ACCUMULATION. It lists data for various states including ALA., ARIZ., ARK., CALIF., COLO., CONN., DEL., D.C., FLA., GA., IDAHO, ILL., IND., IOWA, KANS., KY., LA., MAINE, MD., MICH., MINN., MISS., MO., MONT., NEBR., NEV., N.H., N.J., N.M., N.Y., N.C., N.D., OHIO, OKLA., OREG., PA., R.I., S.C., S.DAK., TENN., TEXAS, UTAH, VT., VA., WASH., W.VA., WIS., and WYO. Each entry includes weekly total and departure, and seasonal total and departure from 1980-81.



Average Monthly Weather Outlook



## National Agricultural Summary

December 7-13, 1981

**HIGHLIGHTS:** Cold air dipped into Florida's vegetable growing areas at midweek, bringing light to moderate frost which damaged some tender vegetable crops. Rain across the South delayed the completion of row crop harvests. In northern areas, growers waited for a hard freeze before moving machinery into the scattered corn fields remaining for harvest. Farmers spread fertilizer and lime, repaired machinery, hauled grain, harvested late crops, cared for livestock, and tilled the soil in areas where weather conditions permitted these operations. The last remaining fields of winter wheat were being seeded. Winter wheat was in mostly good condition. Soil moisture in the major growing areas was adequate except in parts of Texas where short supplies prevailed. The cotton harvest reached 91% complete in Arizona, 90% in New Mexico, 40% in Oklahoma, and 81% in Texas. From the Delta eastward, and in California, picking was virtually finished. Pastures were rated mostly fair to good condition from Texas eastward.

**COTTON:** In the 14 major producing States, 87% of the cotton acreage had been harvested, one point ahead of last year. Picking was virtually complete in all major producing areas except the southern Plains, Arizona, and New Mexico. The Arizona harvest advanced to 91% complete and the New Mexico harvest reached 90% finished. Progress in both States exceeded the average by 10 percentage points. In Oklahoma, harvest continued to lag normal. Picking was only 40% complete, compared to the normal progress of 65%. A late hard freeze combined with wet fields slowed this year's harvest.

The Texas harvest, at 81% finished, was 1 point ahead of normal. Harvest progressed rapidly across the Panhandle. In some areas cotton modules were backlogged at gins. On the Low Plains, harvest was in full swing; some late planted fields were too green to strip. Stalk destruction and clean-up operations progressed well in the Blacklands.

**SMALL GRAINS:** Growers continued to seed the last remaining acreage of winter wheat across to South. In California, seeding remained active and on schedule. Kansas wheat rated good to excellent, except in southeastern areas where the crop was in fair condition. Mostly good conditions were reported in all other States. Light greenbug infestations were reported from Kansas to Texas. Short soil moisture conditions prevailed in Texas from the Low Plains to the South Central areas of the State. There was very little protective snow cover in Montana, but wind damage was only light to moderate.

**OTHER CROPS:** Corn harvest neared completion in nearly all areas of the Nation. Only a few scattered fields remained for harvest. Farmers in northern areas were waiting for a hard freeze before entering the remaining fields. The moisture content of recently combined grain remained high.

Soybean combining centered in the Southeast, although a few unharvested fields also remained in Kansas. Harvesting in Georgia reached 94% complete while combining in Kansas was 97% finished.

The sugarcane harvest was very active in Florida where the crop was in good condition.

The Louisiana harvest reached 88% complete, 8 points ahead of average. Peanut harvest in Texas was 98% finished. Harvest neared completion in the Cross-Timbers area where a few wet fields remain. Tobacco growers continued stripping and marketing their crops.

**FRUITS AND NUTS:** Producers moved apples from storage and repaired equipment. Orchard and vineyard pruning, fertilizing, and spraying progressed well. Pruning and tying of caneberries continued in Washington. The pecan harvest lagged behind normal in Texas with 68% picked, compared with an average of 75%. Harvesting was 88% complete in Georgia and 85% complete in Louisiana and Mississippi.

Florida's citrus harvest accelerated as more processing plants opened. Groves were in good condition but need substantial rains. Growers continued to irrigate. Texas grapefruit and early orange harvest remained active. In Arizona, picking of lemons, grapefruit, early variety oranges, and tangerines progressed well. The new crop fruit showed good size and color. New growth was prevalent and groves were generally in good condition. The California lemon and Navel orange harvests made rapid progress while the grapefruit harvest continued at a slow pace. Excellent quality tangerines continued to move well. Harvest of the Hass avocado crop started 3 months ahead of normal due to favorable prices.

**VEGETABLES:** A cold front at midweek caused light to moderate scattered frosts in most of Florida's vegetable growing areas. The frost, along with strong, cold winds caused some leaf bloom damage to tender crops. Vegetable shipments increased 6% from the previous week. The only crops showing declines were snap beans, cauliflower, cucumbers, eggplant, okra, peppers, and squash. The fall watermelon harvest neared completion. The strawberry crop made good growth with bloom and fruit set increasing. Harvest was light, but increasing.

The California lettuce harvest was active in the Palo Verde Valley, but light in other areas. Growers were digging potatoes in the Stockton and Riverside areas. Small volumes of tomatoes were harvested on the South Coast.

In the Rio Grande Valley of Texas, harvesting of peppers, cauliflower, cabbage, and broccoli was active and early onion planting was underway. Harvesting of fall vegetables continued in the San Antonio - Winter Garden area. Spinach harvest was getting underway. The chile pepper harvest neared completion in the Trans-Pecos region.

The Arizona lettuce harvest was in full swing. Land preparation and planting for winter vegetables.

**PASTURES AND LIVESTOCK:** Pastures were in fair to good condition across the Southern part of the Nation, except in scattered areas of the Southeast where conditions remained poor to fair due to dry soils. Ranges and pastures in Texas remained in good condition, but many areas needed additional moisture to maintain growth. Winter wheat pastures provided good grazing, but wet conditions in parts of Kansas and Oklahoma limited the number of fields that could support cattle. Livestock were generally in good condition; many were on supplemental feed.

December Crop Production Highlights

ALL COTTON production is forecast at 15.6 million bales, virtually unchanged from the November 1 estimate, but 40 percent above production in 1980.

DRY EDIBLE BEAN production is forecast at 31.8 million hundredweight, a record high for the third consecutive year. Production this year is up 20 percent from 1980 and 55 percent more than 1979.

BURLEY TOBACCO production is forecast at 720 million pounds, 29 percent larger than last year's crop of 558 million pounds and up fractionally from November 1.

CITRUS production is forecast at 14.3 million tons, 5 percent less than last season.

ORANGE production is expected to total nearly 222 million boxes, 10 percent less than last season.

GRAPEFRUIT production (excluding California's "other areas") is forecast at 72.7 million boxes, 13 percent more than the 1980-81 season.

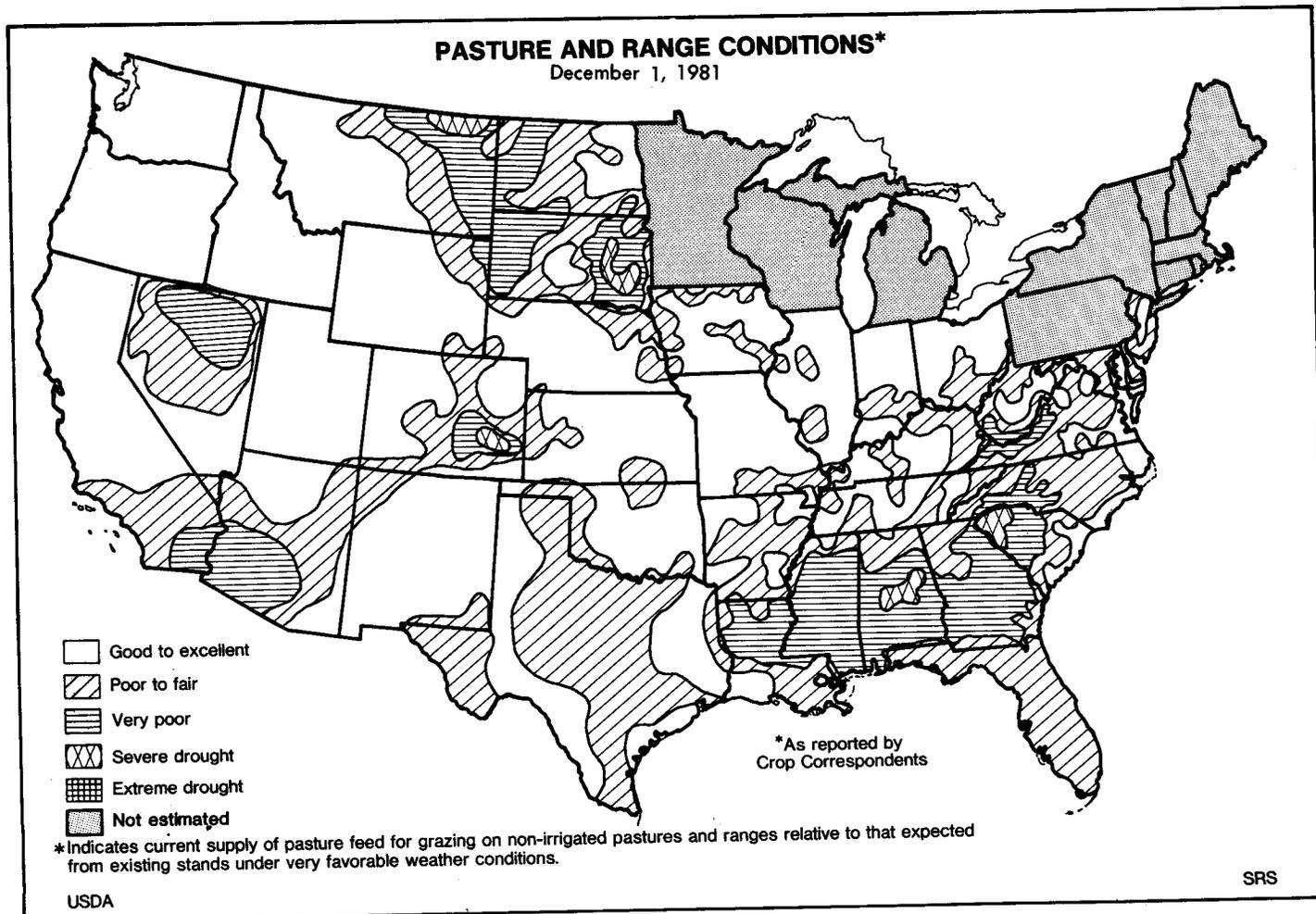
**HARVESTING PROGRESS**

FOR WEEK ENDING DEC 13, 1981

	COTTON % HARVESTED		
	1981	1980	AVG.
ALA	99	99	93
ARIZ	91	83	81
ARK	100	100	100
CALIF	96	95	NA
GA	97	99	93
LA	100	100	100
MISS	100	100	98
MO	98	100	100
N MEX	90	76	80
N C	97	98	94
OKLA	40	85	65
S C	100	100	100
TENN	100	100	99
TEX	81	77	80
14 STATES	87	86	NA
EXCL. STATES WITH NA	86	85	85

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

NA - NOT AVAILABLE



## State Summaries of Weather and Agriculture

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

**ALABAMA:** Temperatures below normal. Rainfall 0.50 in. or more at all stations, up to 2.50 in. at Muscle Shoals.

Fieldwork: 5.3 days. Soil moisture adequate. Activities: Fence repair, machinery maintenance, plowing, pecan harvest, soil testing and lime spreading. Wheat seeded 98%; 98% 1980. Conditions: Wheat, livestock, pastures mostly fair.

**ARIZONA:** Mild weather continued, mostly sunny skies. Widely scattered light showers to snow flurries over northern, eastern areas of State 12th, 13th. Average temperatures mostly 5 to 10° above normal.

Cotton harvest full swing, making excellent progress. Approximately 91% crop some sort harvest activity compared 83% last year, 81% average. Most cotton growing areas harvest winding down. Winds, rain 2 weeks ago little adverse effect on crop. Sorghum harvest still active, rapidly winding down. Alfalfa seasonally slow, newly seeded, renovated fields putting on reasonably good growth. Sugarbeets continued ahead normal, top, tap root growth very good. Land preparations, planting small grains, mostly wheat, barley resumed full swing, earlier planted fields very good stand, growing rapidly. Harvest lettuce, other mixed vegetables continued full swing. Vegetables for later winter harvest all stages, land preparation to establishing stands. Picking lemons, grapefruit, early variety oranges, tangerines very good progress. No limiting weather factors, market acceptance generally good all varieties, especially larger sizes Navel oranges. New crop fruit sizing and coloring well. Groves generally good condition, new growth prevalent. Ranges higher elevations fair to good. South-western Deserts poor to fair. Water supplies, soil moisture adequate except extreme southwest was short. Cattle fair to good. Sheep fair.

**ARKANSAS:** Cool and dry week. Temperatures were slightly above normal in the northwest but normal elsewhere. Rainfall below normal. Highest temperature 75°, lowest 19°. All departures from normal ranged from -3 to +3°. Most rainfall 0.44 in.

Early planted winter wheat in good condition. Later planted wheat needs rain for germination and to get well established. Livestock good condition, being fed hay. Pasture need rain. Soil moisture low.

**CALIFORNIA:** Warm and dry in the south and mild and wet in the north. Weather systems moved across the northern end of the State during the week. Greatest rainfall totals along the extreme North Coast, over 2.00 in. Some precipitation into the Sacramento Valley and the Northern Sierra Nevada, but totals generally less than an inch. Weekly mean temperatures well above normal except San Joaquin and Sacramento Valleys. Sierra-Cascade and South-east Interior had greatest departures above normal.

Cotton harvest 96%, 95 last year. Winter grains progressing well, good moisture. Weed control active. Some milo and corn remain to harvest. Sugarbeets growth good Imperial Valley. More rain last week curtailed activities in Sacramento and Northern San Joaquin Valley. Has avocado crop starting 3 months

ahead of normal because of high prices. Prices for other varieties depressed. Desert grapefruit continues slow. Desert lemons continue active. Navel harvest continues active. Fairchile, orland tangerines moving with excellent quality. Broccoli, cauliflower fairly light supply, heavy diversion to freezers. Carrot harvest moderate Salinas and San Joaquin Valleys, very light Desert. Celery volume moderate Central Coast, light South Coast. Lettuce harvest active Palo Verde Valley, light Imperial Valley; yields very light. Light lettuce harvest Santa Maria, San Joaquin Valley. Digging potatoes Stockton, Riverside areas. Fall storage potatoes moving from storage Tulelake-Butte Valley. Light tomato harvest South Coast. Ranges continue excellent development. Stock water supplies more than adequate. Calving active. Lambing at peak many areas.

**COLORADO:** Very warm and dry week. On 11th, a weak Pacific cold front passed through the State and dumped from 3 to 5 in. of new snow over the high country but none at the lower elevations. Temperatures extremely warm, averaging about 15° above normal east and 5° above normal mountains and west. Colder weather returned at the end of the week.

Agricultural activities primarily limited to feeding and caring for livestock and awaiting moisture for fall seeded grains.

**FLORIDA:** Mostly fair except for cloudy weather and a little rain at weekend. Very cold, averaging 9 to 12° below normal. Below freezing temperatures and frost extended southward to Lake Okeechobee, the 11th. Weekend rainfall amounts averaged 0.50 to 1.00 in. Panhandle, 0.10 in. or less north, central Peninsula; no rain south.

Soil moisture short most areas, adequate scattered areas of north and Panhandle. Soybean, hay harvest practically complete. Sugarcane harvest very active, crop good condition. Planting small grains nearing completion. Early plantings up, good growth where moisture adequate. Cold, dry weather limited pasture growth; however, very light to moderate weekend rains beneficial, primarily in Panhandle area. Cattle, calves mostly fair condition, except good, lower southern Peninsula. Citrus groves and trees good condition a lot of rain needed. Irrigation continues. Very little new foliage. Excellent on-tree fruit color. Harvest accelerating as more processing plants open. Mild weather continued first half of week in vegetable areas. A cold front at midweek caused light to moderated scattered frost most areas. Nighttime lows dropped to upper 20's and low 30's some areas. Strong, cold winds, frost caused some leaf bloom damage tender crops. Little to no rain. Total vegetable shipments increased 6% from previous week. Crops increasing were cabbage, carrots, celery, sweet corn, lettuce, radishes, tomatoes. Supplies about steady chinese cabbage, escarole, parsley. Volume declined snap beans, cauliflower, cucumbers, eggplant, okra, peppers, squash. Fall watermelon harvest about complete; supply very limited. Strawberry crop making good growth. Bloom and fruit set are increasing. Harvest light but increasing.

**GEORGIA:** Dry and rather cold with no rainfall. Temperatures averaged 3° below normal north

and up to 10° below normal south. The 12th and 13th cloudy and very cold. Temperatures 8 to 10° below normal. Light rain in southwest portion all 3 days and over remainder of State night of 13th. Amounts ranged from 0.33 to 0.75 in. except only trace amounts along coast.

Soil moisture short to adequate. Five days suitable for fieldwork. Late crop harvest and seeding small grains nearing completion. Corn harvest complete. Cotton 97% picked, 99% last year, 93% average. Soybeans 94% harvested, 91% last year, 88% average. Apple harvest complete. Pecans 85% harvested, 78% last year, 80% average. Wheat 91% planted, same as last year, 90% average. Rye 97% seeded, 95% last year, 93% average. Other small grains 96% planted, 94% last year, 92% average. Pastures in poor to fair condition with some supplemental feeding. Cattle and hogs fair to good.

**HAWAII:** Weather cool, windy and wet some parts of Hawaiian chain. Rains caused variable effect to plantings. Beneficial in some areas but slowed crop progress in other areas. Winds caused minor damage to plantings in exposed areas, generally on Island of Oahu. Cool weather, Islands of Maui and Hawaii affected crop growth in the higher elevations. Spraying frequent in wet areas to control diseases. Vegetables: Some vine crops sustained light damage from strong winds. Supplies most crops adequate. Watercress fields replanted after the late October flood gradually coming into harvest. Bananas: Supplies steady and adequate. Papayas: Production declining. Frequency of spraying more often in wet areas. Diseases thus far light and contained in most orchards. Pineapples: Light harvest. Sugar: Harvesting down. Most mills closed for repairs. Pastures: Rains beneficial.

**IDAHO:** Precipitation was generally above normal in north, but was light and spotty in the south. Temperatures were warm, ranging from 6 to 13° above normal. High of 60 in. Kuma, low of zero in Stanley.

Fieldwork was very limited and most activity centered on machinery repair and business activities. Grain and potatoes were being marketed. Feed supplies remained adequate and livestock were in good condition.

**ILLINOIS:** Temperatures 1 to 4° above normal. Precipitation trace to 0.02 in. Most of State, 1.0 to 3.0 in. snow northeast district.

Winter wheat mostly good condition. Activities: storing machinery, fence repair, livestock feeding, some grain hauling, fertilizer application.

**INDIANA:** Dry week, but snows in north. Daily high temperatures below normal and sunshine only 31% of possible. Daily lows above normal. Temperatures ranged from 11 to 64°. Precipitation only a few hundredths in.

Corn harvest continues on scattered remaining fields. Most corn still high moisture. Harvest nearly complete in southwest. Plowing of spring cropland also continues where soil conditions permit. Tobacco stripping complete some areas. Some waiting for more moisture for tobacco to go into case. Other activities: Getting livestock ready for winter, repairing and storing equipment, purchasing seed and chemicals, cutting firewood, and usual chores.

**IOWA:** Mild and dry until weekend when light-to-moderate snowfalls were measured across the northern two-thirds of State and light rain or drizzle fell southward. New snow totaled 2 to 5 in.

northwest and north central, elsewhere 2 in. or less. Snow cover at the weekend over northern half State. Temperatures average 3 to 7° above normal.

**KANSAS:** Little or no precipitation. Temperatures averaged 37 to 39° northeast districts and 40 to 43° west and south or 5 to 9° above normal.

Fair weather allowed fieldwork progress. Corn harvested 99%, last year 100%. Soybeans harvested 97%, last year 100%. Sorghum grain harvested 98%. Wheat condition good to excellent except southeast fair. Light greenbug populations scattered through State. Economic levels very rare. Principal farm activities included moving cattle, harvesting late crops and fall plowing. Days suitable fieldwork: 5.0.

**KENTUCKY:** Unseasonably cold and dry weather. Temperatures averaged from 1 to 7° below seasonal normal. Measurable precipitation reported only over far eastern areas with amounts less than 0.10 in.

Damp weather needed to bring burley into order for stripping. Precipitation minimal first half of December. Fall seeded grains need moisture in some areas. Approximately 60% of burley sold with price averaging a little better than \$180 per cwt. Supplemental feeding increasing as pastures become short.

**LOUISIANA:** Rainfall generally between 0.50 and 1.70 in. Temperatures 1 to 5° above normal, except 1° below in northeast.

Soil moisture short. Days suitable: 6.2. Cotton and soybean harvest virtually complete. Sugarcane harvested 88%, 70% 1980, 76% average; condition good. Vegetables rated fair to good. Pecans harvested 85%. Wheat seeded 96%, 100% 1980, 100% average; emerged 88%, 89% 1980; condition fair to good. Pastures rated fair. Livestock rated fair to good.

**MARYLAND AND DELAWARE:** Temperatures averaged 2° above normal except in western Maryland which averaged 5° below normal. Highs averaged in the 40's most areas while lows were in the mid 30's. The Oakland area received the most precipitation with 0.52 in. in the form of snow. All other areas averaged 0.26 in. The weekend was partly cloudy, highs in the 40's and lows in the low to mid 20's and no precipitation.

**MICHIGAN:** Fairly warm temperatures. On the 7th stations around the State reported temperatures ranging from 34 to 45°. By 10th and 11th temperatures dropped considerably with lows of 1 and 2°. Temperatures overall averaged from 1 to 4° above normal. Snow fell throughout most of the week, at least in trace amounts. The lower precipitation amounts for this week have slowed the monthly accumulations and caused the month so far, to be slightly drier than normal.

Field activity was very limited. Small amount of corn and soybean acreage left for harvest. Farmers hoping for a hard freeze to get in the remaining fields. The general condition of most wheat was about normal. Some late planted wheat slightly below normal. Farmers centering their attention to small jobs around the farm in preparation for winter.

**MINNESOTA:** Temperatures averaged from 4° above normal in the southeast to 10° above normal in the northwest. Extremes: 39° at Lamberton and -3° at International Falls and Duluth.

Precipitation averaged less than 0.25 in. except 0.25 to 0.40 in. west central through

north central. Snowfall ranged from trace to 3 in. except 4 to 5 in. west central through north central. Snow on the ground at weeks end ranged from zero extreme northwest to generally 3 to 6 in. elsewhere, except 8 in. in the north central.

MISSISSIPPI: Clear and near normal temperatures early in week. Rain late in week over most of State. Greatest 24-hour rainfall 1.49 in. Temperature extremes 19 and 77°.

Soil moisture short. Days suitable for fieldwork: 5.7. Cotton 100% harvested, 100% last year, 98% average. Soybeans 100% harvested, 97% last year and average. Pecans 88% harvested, 86% last year, 87% average. Winter wheat 98% seeded; condition fair to good. Pasture condition fair; livestock condition fair to good. Hay and roughage and grain supplies adequate.

MISSOURI: Temperatures averaged from 2 to 6° above normal. The only precipitation received were traces in the southern third of the State.

MONTANA: Precipitation confined to mountains and area west of Divide. Some western valleys received over an inch of precipitation while 2.00 in. fell in mountains. It was dry over remainder of the State. Temperatures very mild and ranged 7° above normal in west to 12° above in southeast. Highest 65° at Hardin and Broadus, lowest 2° below zero at Wisdom.

Winter wheat condition fair to good. Very little snowcover, wind damage light to moderate. Over half of cattle and 65% of sheep receiving supplemental feed. Some open grazing available in east and southwest. Livestock condition good to excellent.

NEBRASKA: Temperatures: as much as 11° above normal in west to 3° above normal in east. Precipitation: dry until end of week when scattered light showers occurred but mainly in northern portion of State.

NEVADA: High pressure system dominated early in period. Mild Pacific air midweek resulted in a high snow level and above normal temperatures. Strong winds accompanied a cold front through north later in period. Temperature extremes: 72 and 13°.

Cotton harvest nearing completion 2 to 3 weeks earlier than usual. Weather generally easy on livestock caring and feeding operations.

NEW ENGLAND: Temperatures: 2 to 5° above normal over east and coastal New England, elsewhere close to normal. Precipitation: Most precipitation occurred early in the week, mostly as snow and flurries. Snow depth at week's end averaged 3 to 5 in. east coastal New England and 4 to 9 in. in the mountains. The most precipitation, reduced to liquid form, fell at Nantucket, Ma., 0.47 in.; Limestone, Me., 0.51 in.; and Chatham, Ma., 0.55 in.

NEW JERSEY: Temperatures were slightly below normal averaging 33° north, 35° south and 37° coastal. Extremes: 22° at Charlotteburg and 54° at Cape May Court House. Precipitation below normal, averaging 0.34 in. north, 0.22 in. south and 0.05 in. coastal. Heaviest 24 hour total reported 0.48 in. at Long Valley.

Farmers caring for livestock, selling Christmas trees, pruning fruit, hunting deer and tending to other late season chores.

NEW MEXICO: Temperatures averaged well above normal with precipitation very limited.

Soil moisture varied from short to adequate. Open weather allowed outdoor work to progress unhampered. Farming activities included harvest of cotton, pecans, and red chile. Cotton in good condition with harvest continuing unhampered. Wheat and barley remain in good condition. About 50% of the fields being grazed. Grain sorghum harvest continuing to wind down with approximately 96% of the fields harvested. Pecan and red chile harvest continuing. Ranges in fair to good condition but dry and some concern of range fires reported. Cattle and sheep in good condition with limited supplemental feeding.

NEW YORK: Snow over most of the State on 8th. Up to 7 in. in Hudson Valley. Heavy late week snow south of Lake Ontario, 15 to 20 in. south of Rochester. Precipitation lightest in lower Hudson Valley and New York City area. Temperatures averaged near or a little below normal.

NORTH CAROLINA: Temperatures ranged 4 to 8° below normal. Precipitation was 0 at all reporting stations.

Fieldwork: 5.6 days suitable. Soil moisture: 10% very short, 64% short, 25% adequate, 1% surplus. Harvest: Cotton 97%, 1980 98%, 94% average; sorghum grain 99%, 1980 99%, 98% average; soybeans 95%, 1980 88%, 83% average; corn for grain 99%, 1980 100%, 98% average. Plantings: Wheat 98%, 1980 96%, 97% average; oats 99%, 1980 97%; barley 99%, 1980 96%; rye 96%, 1980 95%. Major farm activities: Harvesting soybeans and preparation of tobacco plant beds.

NORTH DAKOTA: Mild weather prevailed during the week. Temperatures averaged 5 to 10° above normal. Precipitation was slightly above normal in east central but otherwise precipitation averaged slightly below normal.

Mild winter weather continued. Some additional snowfall mostly in east. Snow cover generally light. Above normal temperatures good for livestock. Farmers attending meetings and taking care of other winter chores.

OHIO: Northeast precipitation just slightly above normal at 0.60 in. elsewhere totals well below normal and ranged from zero parts of southwest to nearly 0.20 in. parts of northwest. Fields damp most areas. Mean temperatures near normal northwest and along Lakeshore areas northeast but 2 to 3°. Below normal elsewhere. Lows dipped into teens and lower 20's on the 10th. Average soil temperatures in mid-30's.

A thick blanket of snow covers northeast. Good quality hay in short supply. Some corn harvesting done last week.

OKLAHOMA: Temperatures averaged 2 to 6° above normal. Precipitation varied from 0.01 in. in the Panhandle to 0.20 in. in the south central.

Wheat condition still good but moisture needed. Wheat pasture above normal. Cattle good condition with supplemental feeding increasing. Cotton harvested: 40% 1981; 85% 1980; 65% average.

OREGON: Much flooding occurred along coast and Willamette Valley. Heavy rain dumped record 24-hour amounts of 5.80 in. at North Bend and 5.00 in. at Eugene. Precipitation totals for areas east of the Cascades varied from negligible in central sections to 2.00 in. in north-central areas; south central sections recorded only 0.40 in. Warmer than normal temperatures accompanied the rains averaging 5 to 6° above normal. The northeastern section reported averages of up to 12° above normal.

Soil moisture supplies surplus in west; adequate to surplus in east. Grain fields in good condition; some weeds. Slugs continue to be of concern, especially in grass seed fields. Some late vegetable harvest continues, mostly cabbage and carrots. Livestock condition good. Range and pastures poor to fair in east; fair to good in west. Feed supply adequate.

**PENNSYLVANIA:** Cloudiness and precipitation prevailed in the form of rain and snow during the first 4 to 5 days. Precipitation was below normal, averaging 0.45 in. The maximum amount occurred in the western third of the State. Snow accumulation ranged from 7 in. in the northeast to about 2 in. in the north central area. The southern sections received less than an inch. Temperatures averaged about 5° below normal. The maximum 48° at Lewistown and the minimum 10° at Carrolltown.

**PUERTO RICO:** Island average rainfall 2.00 in. or 0.96 in. above normal. Temperatures averaged about 79 to 78° on Coasts and 74 to 73° Interior Divisions. Extremes: 93 and 58°.

**SOUTH CAROLINA:** Temperatures well below normal throughout the week. Coldest period toward end of the week with lows in the teens. No rainfall during the period.

Soybean harvest winding down. Crop considered fair. Cotton harvest completed, excellent crop. Pecan harvesting active. Tobacco bed preparation was active. Pruning fruit trees. Caring for livestock. Sampling and liming soil. Small grain planting almost complete. Condition good.

**SOUTH DAKOTA:** Temperatures 1 to 10° above normal. Extremes 66 and 5°. Precipitation light. Largest amounts in the southeast from snow storm on 14th, up to 0.31 in. of precipitation. Total precipitation for the year remains above normal only in the central region.

**TENNESSEE:** A dry cold front moved through on 7th, rest of the week was cloudy with scattered snow in higher elevations. Some rain fell on 13th as a result of a warm front over the Gulf coast. Rainfall ranged from 0.25 to 0.34 in. in the middle and west and less than 0.10 in. in the east. Temperatures were 4 to 6° below normal in the east, 3° below normal in the middle and near normal in the west.

Cotton harvest complete, ahead of normal. Farmers busy marketing tobacco and caring for livestock. Cattle in good condition. Winter feed supplies adequate.

**TEXAS:** Weather: No major frontal systems moved through State. Over-running conditions during latter week produced light rain, drizzle eastern half State. Precipitation below normal statewide. Temperatures 4 to 8° above normal North, East Texas; Upper Coast, South central Texas; 9 to 13° above normal remainder. Unseasonably warm weather prevailed during week. Cotton harvest good progress across Panhandle; plowing and clean up operations active harvested cotton, sorghum fields. Cotton harvest progressing rapidly across Panhandle some areas cotton in modules back-logged at gins. Low Plains harvest full swing; some late planted fields too green to strip. Stalk destruction clean up operation good progress Blacklands. Small Grain fields good progress; Blacklands through South central Texas need additional moisture. Fields Edwards Plateau dry seeded. Oats providing good grazing. Wheat stands showing good potential High Plains. Short moisture conditions prevail Low Plains to South central Texas. Along

Coast, wet soils delayed land preparation, planting. Light greenbug infestations Blacklanus, South central Texas. Reported wheat condition statewide is 18% excellent, 61% good, 19% fair, and 2% poor. Peanut harvest winding down Cross Timbers; few wet fields remain to be harvested. Producers reporting good yields, quality. Cotton open bolls 99%, 100% 1980. Cotton harvested 85%, 77% 1980, 80% average. Wheat planted all purposes 99%, 99% 1980, 99% average. Wheat emerged 95%, 95% 1980. Peanuts harvested 98%, 92% 1980, 97% average. Pecan harvested 68%, 61% 1980, 75% average. Soybeans harvested 96%, 93% 1980, 98% average. Sugarbeets harvested 100%, 91% 1980, 97% average. Oats planted 99%, 96% 1980, 99% average.

**Range and Livestock:** Range, pasture conditions remained good. Many areas in need of moisture. Despite drying conditions, grasses providing grazing for livestock. Supplies of winter feed good, supplemental feeding increased. Cattle, other livestock in good to excellent condition.

**Commercial Vegetables:** Lower Rio Grande Valley, harvest of bell peppers, cauliflower, cabbage, broccoli active. Planting of early onions resumed. Harvest of grapefruit, early oranges continued. San Antonio-Winter Garden area, harvest of fall vegetables continued. Movement of cabbage, carrots active. Spinach progressed well, harvest beginning. Conditions becoming dry, irrigation necessary. Trans-Pecos region, cabbage continues to progress well. Harvest of chili peppers active, winding down. North Texas, some land preparation underway. Pecan harvest continued, activity winding down in South, Central Texas. Yields good.

**UTAH:** Few widely scattered areas light rain or snow over weekend. Average temperatures much above normal but cooling over weekend. Averages range from 1 to 14° above. Soil moisture deficit continues to increase in upper levels of soil.

Field activity limited to extreme southern areas. Care and feeding of livestock. Sorting and marketing of onions, potatoes, and apples continues.

**VIRGINIA:** Windy during first of period with highs around 50° to the low 60's. Extremes: high was 65° at Holland and low was 10° at Chilhowie. Temperatures fell to below normal readings by end of period. Temperatures averaged about 2 to 4° below normal. Precipitation was light with scattered amounts of less than 0.10 in.

Topsoil moisture 69% short, 31% adequate. Days suitable for fieldwork: 4.6. Soybean harvest progress: 94% 1981, 87% 1980, 86% average. Some corn and sorghum still standing, mainly in southern and southwestern counties. Pastures rated in fair to mostly good condition; winter grains and grazing crops rated in good condition. Silage and hay in good supply and most stock now receiving some supplemental roughage. Calving and lambing proceeding normally. A good crop of greens being harvested in eastern areas. Cold weather has slowed most outdoor activities, but during warm days farmers busy pruning orchards, cutting firewood, soil sampling, applying fertilizer and lime, mending fences and tending cattle. Indoor work includes record keeping for tax preparation and planning.

**WASHINGTON:** West: Average temperatures were 2 to 4° above normals. Precipitation was above normal in the range of 0.50 in. to 1.00 in. Although in the Hoquiam area, precipitation was 2.00 in. above. Farm activity very slow with water standing in many fields. Pruning and

tying of canberries continued. Christmas tree harvest in full swing. Cattle on feed with local hay supplies adequate. Carrot harvest virtually complete.

East: Average temperatures were 9 to 7° warmer than normal. Precipitation totals were generally above normal by 0.20 to 0.40 in. The extreme south and the Blue Mountains were above normal by nearly an inch. Late field corn harvested. Orchard and vineyard pruning progressing. Grain crops in average condition. Soil moisture in dryland areas good. Hay supplies adequate.

WEST VIRGINIA: Temperatures averaged from 1 to 7° below normal. High 56°, low 11°. Precipitation averaged below normal. Snow common. Soil moisture adequate.

Days suitable for fieldwork averaged 1.8. Hay, grain, and other feed supplies adequate. Main activities include general maintenance, some marketing of corn and livestock.

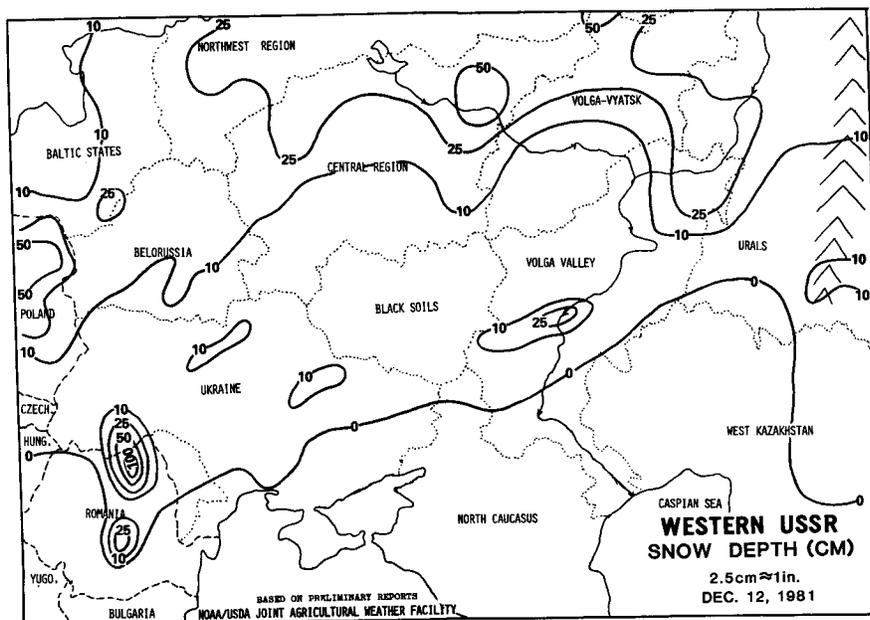
WISCONSIN: A high pressure system dominated the weather, as seasonable temperatures and dry weather generally persisted. Daytime temperatures were in the 30's and 40's on the 7th and in the 20's and 30's for the remainder of the week. The weekly high temperatures, 51°, was recorded in Juneau on the 8th while Morse reported the coolest reading, minus 6°, on the 10th. Precipitation amounts were generally at a trace. Snow fell in the northern snowbelt on the 8th and 9th and accumulations of up to 10 in. were reported in Iron and Vilas counties.

WYOMING: Very warm and dry. Temperatures averaged 14° above normal. Coolest spot averaged 10° above normal. Precipitation, 0.23 in. Winter wheat mostly good. Little wind damage thus far, additional moisture would be beneficial. Livestock mostly good, limited supplemental feeding.

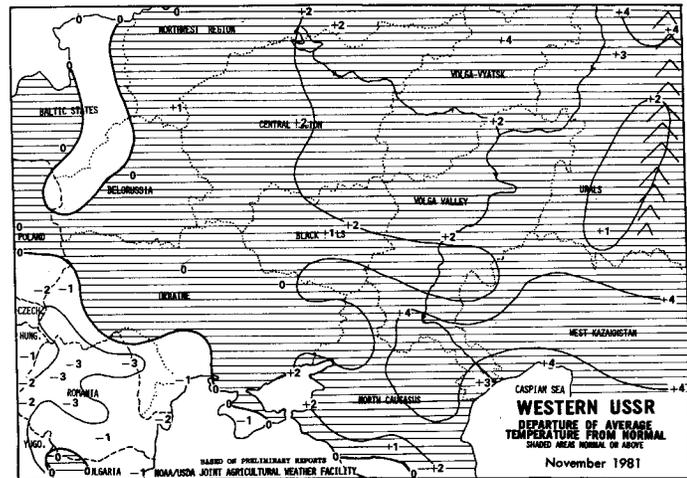
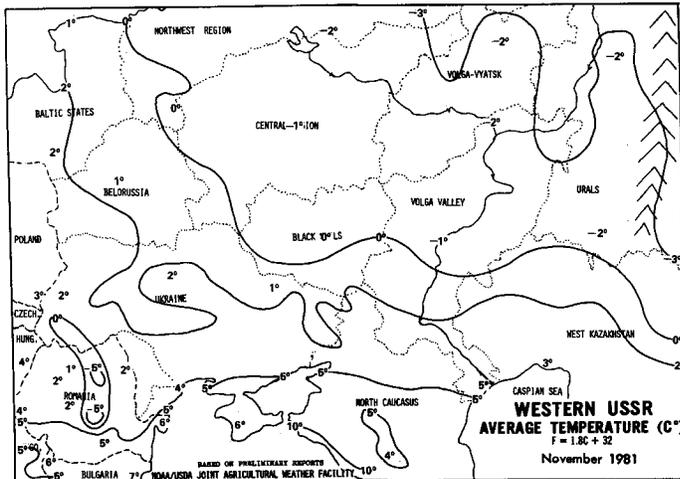
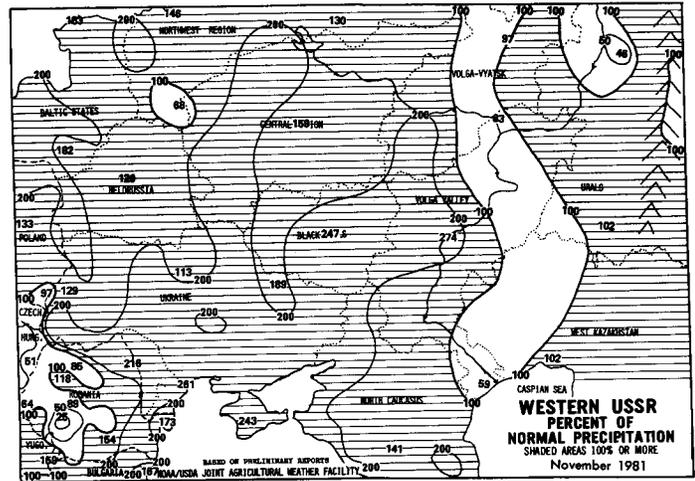
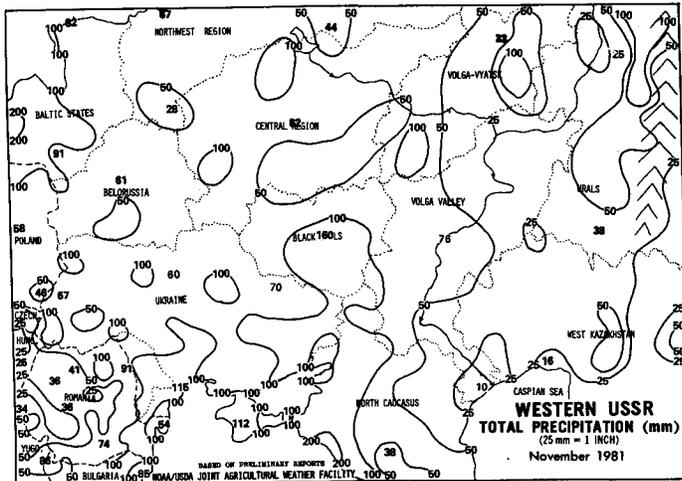
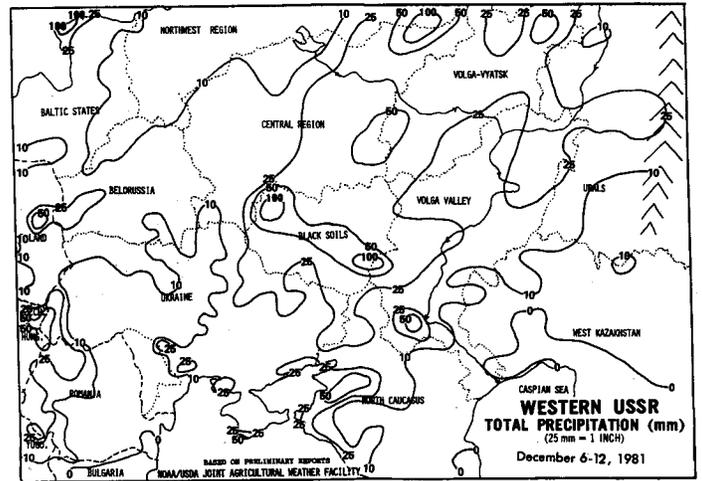
### International Weather and Crop Summary

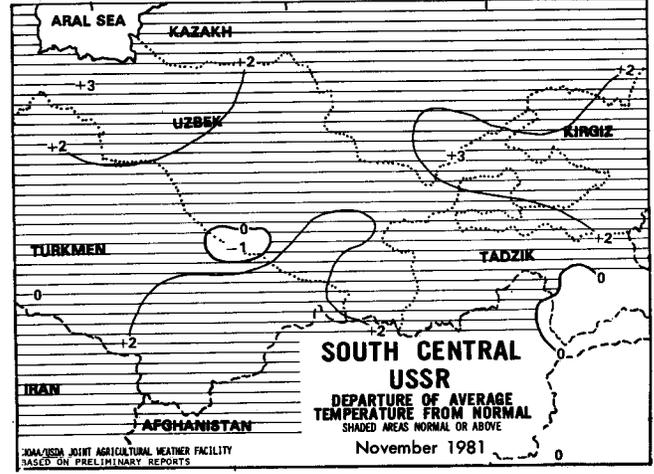
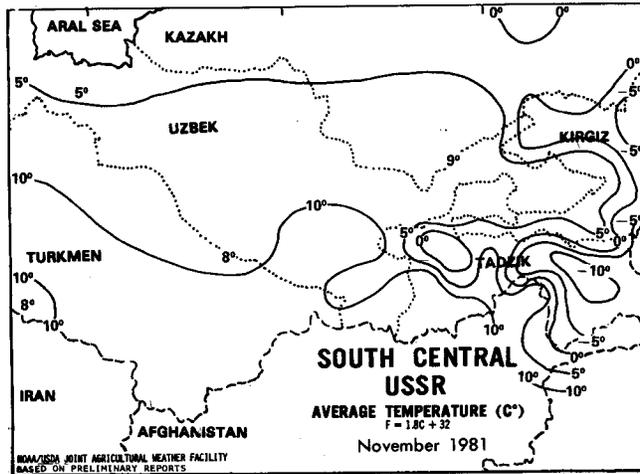
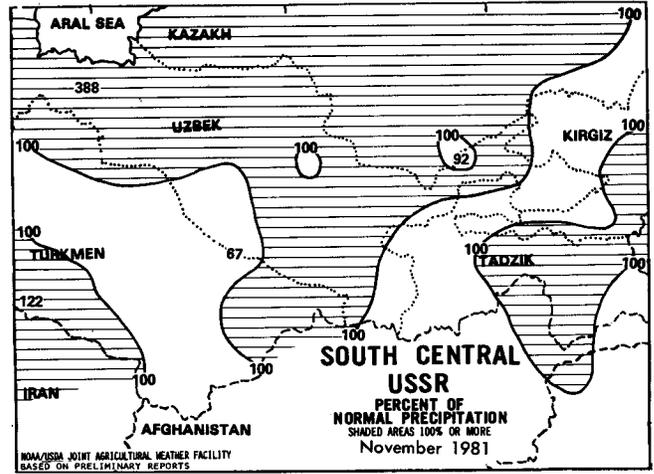
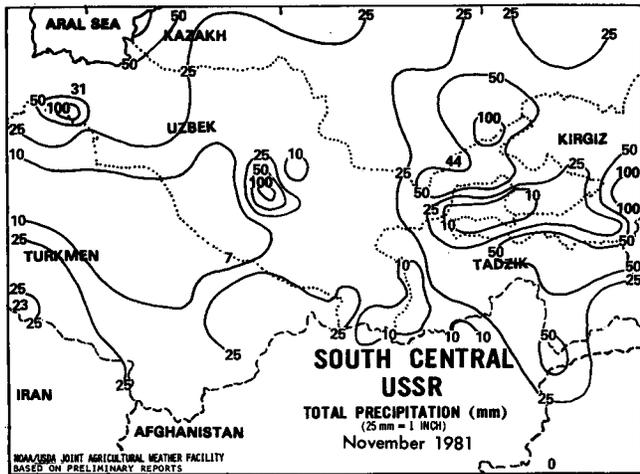
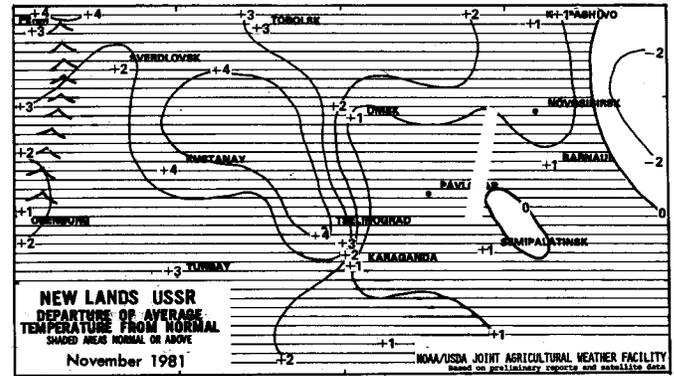
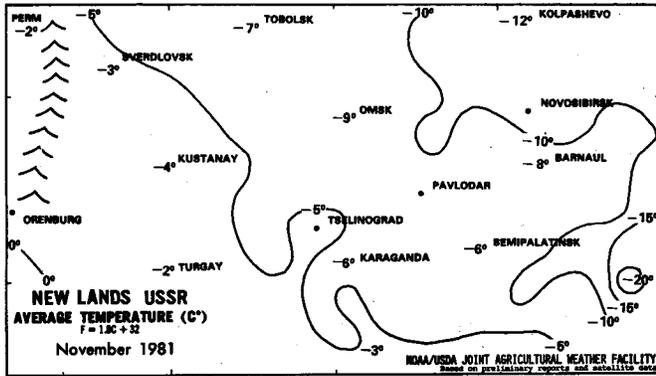
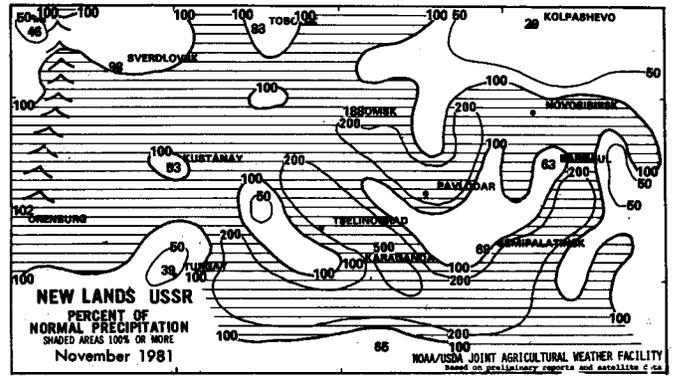
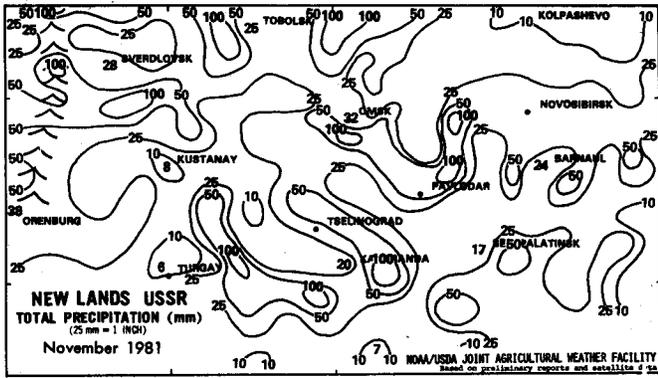
HIGHLIGHTS  
December 6-12, 1981

- WESTERN USSR: Widespread precipitation in most areas; snow cover increases in northern and western areas.
- EUROPE: Wet weather and cold temperatures in the north; some beneficial rains encourage winter grain planting in southwestern Spain.
- MEXICO: Mostly sunny and mild, favoring field operations.
- NORTHWESTERN AFRICA: Light showers fall on winter wheat areas in Morocco; mostly dry weather elsewhere.
- SOUTH AFRICA: Beneficial showers for early corn growth.
- EASTERN ASIA: Generally dry weather continues.
- AUSTRALIA: Mostly dry weather aids grain harvest.
- SOUTH ASIA: Late season tropical storm strikes West Bengal and Bangladesh; generally dry weather elsewhere.
- SOUTH AMERICA: Adequate moisture for crop growth; favorable wheat harvest weather in Buenos Aires.

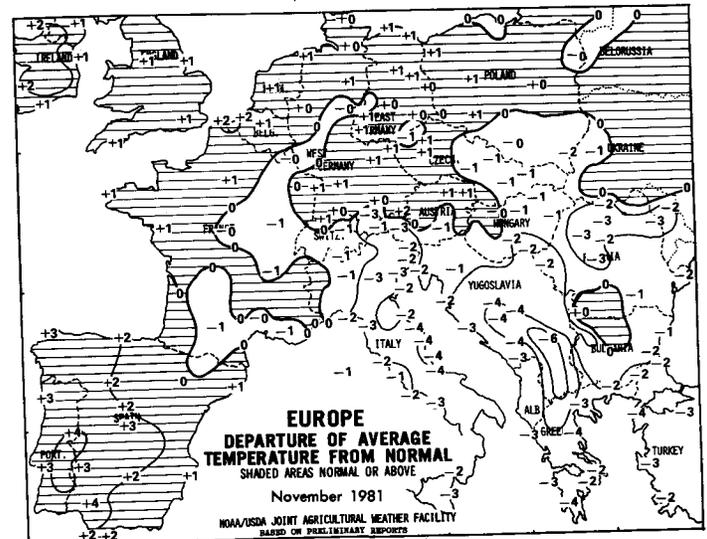
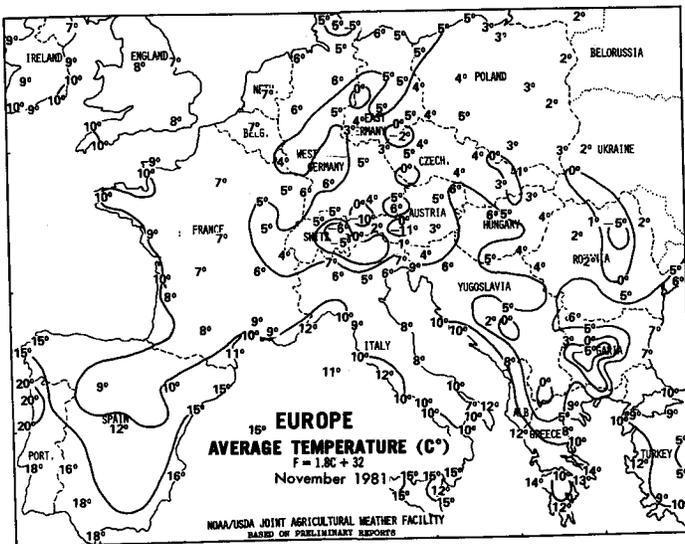
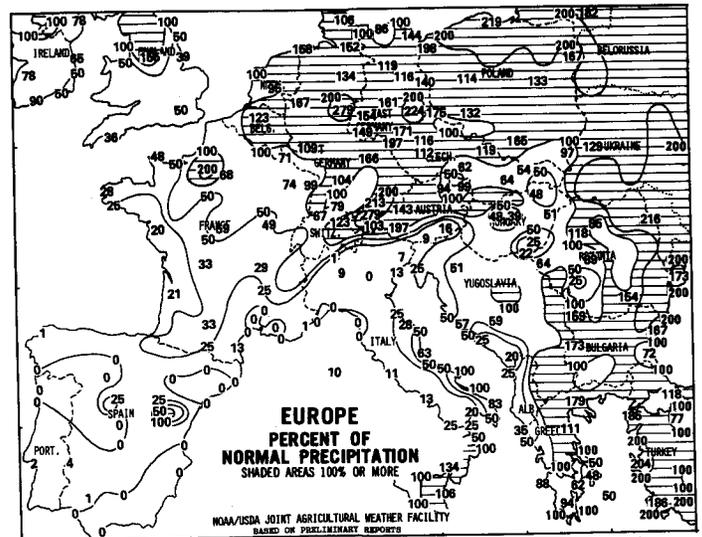
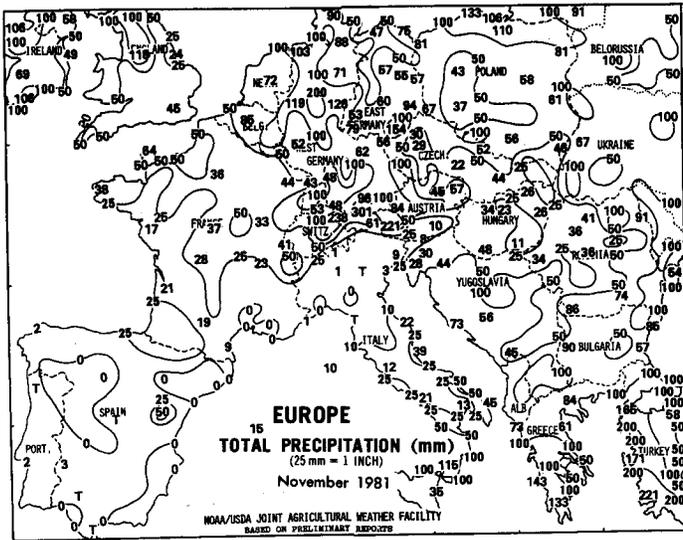
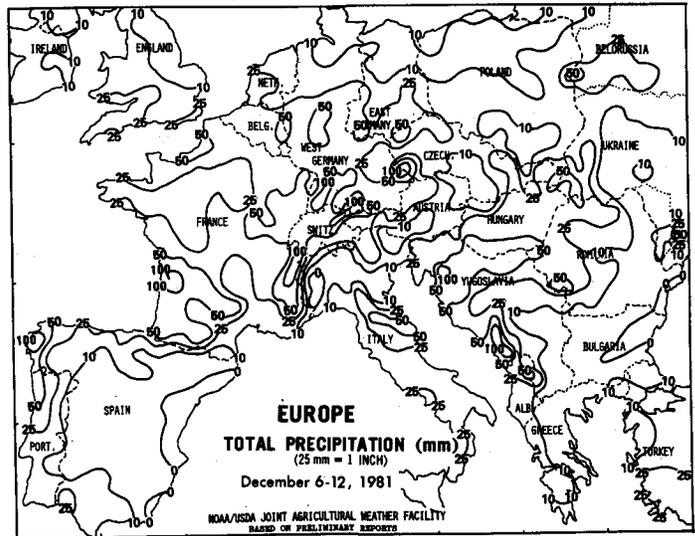


**WESTERN USSR:** Generally widespread precipitation occurred throughout most of the region. The heaviest precipitation from 25 to 50 mm occurred in a band stretching from the northeast Ukraine into the western Urals and Volga-Vyatsk. In November, above normal precipitation occurred throughout most of the region except for a narrow band stretching southward from the central Volga-Vyatsk into the eastern Volga Valley and West Kazakastan. Beneficial weekly rains in this area, except West Kazakastan, improved soil moisture conditions. Temperatures this week were below normal in the northwest, near normal in the southeast, and above normal in the East. Winter grains remain dormant in most areas with above average temperatures in November. Snow cover this week increased in northern and western areas.

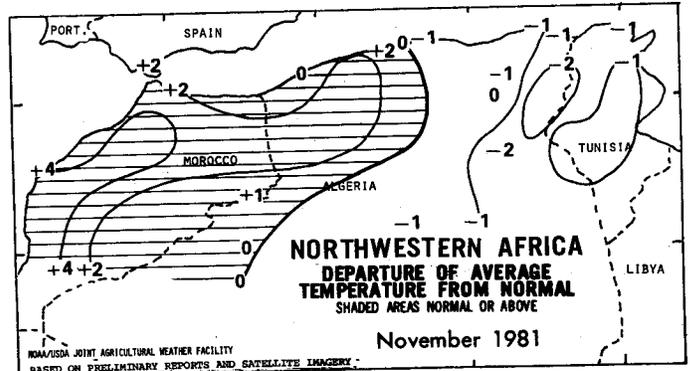
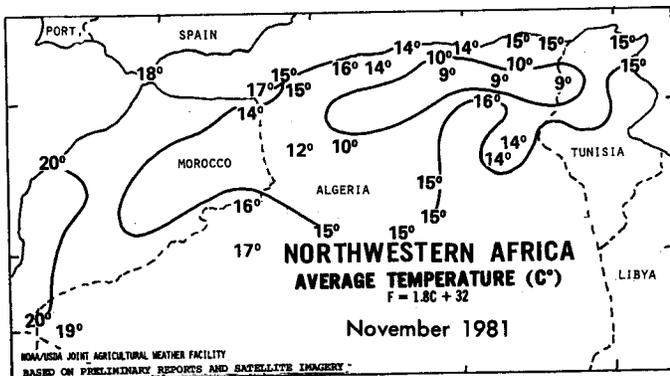
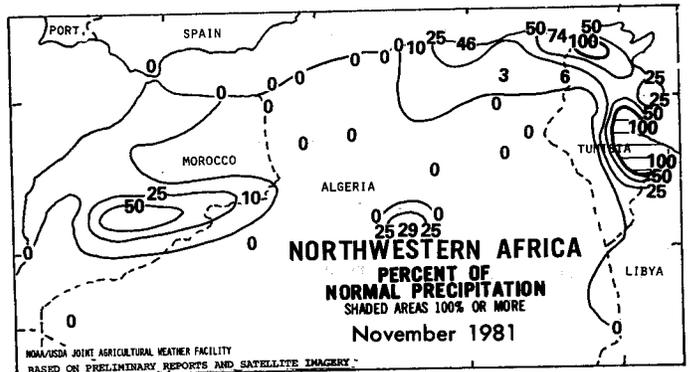
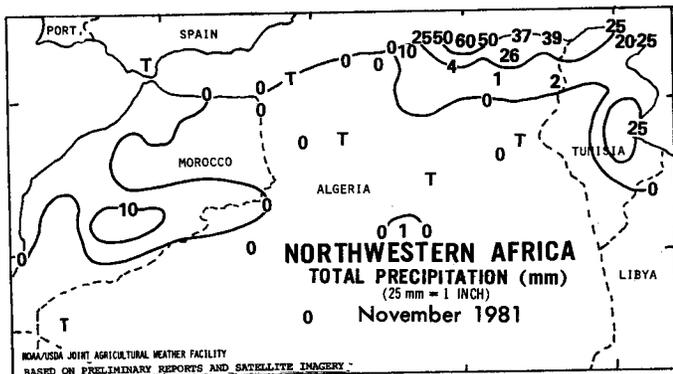
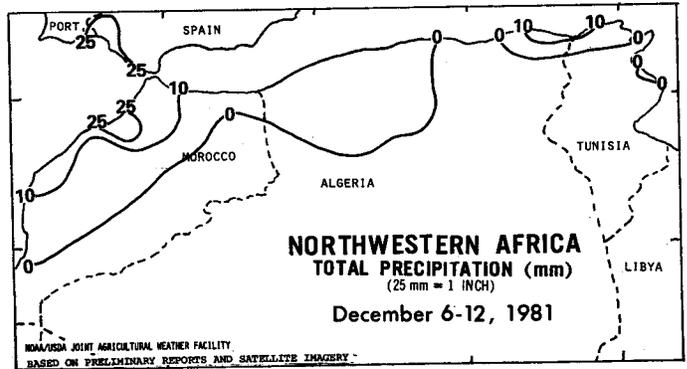




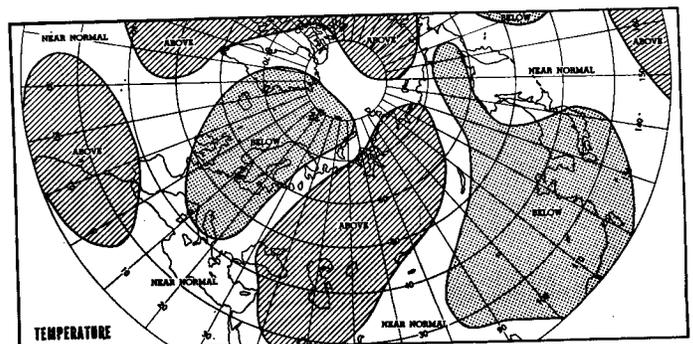
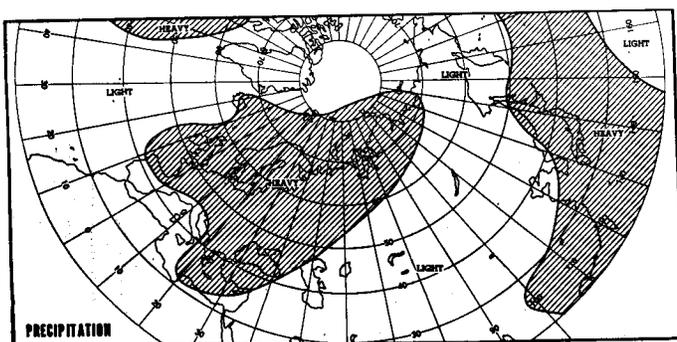
**EUROPE:** Some beneficial rains occurred in southwestern Spain improving topsoil moisture conditions and encouraging winter grain planting. Below normal moisture in November and in recent weeks will further delay planting in other Spanish crop areas. Widespread precipitation benefited winter grain areas of France which received below normal rainfall in November. Conditions became too wet for winter grains in central Europe due to above normal November precipitation and additional heavy precipitation in recent weeks. In Eastern Europe, wet weather occurred over most winter grain areas. Precipitation in Yugoslavia, Romania, and Bulgaria improved soil moisture levels that were deficient due to below normal precipitation in November. Below normal temperatures over northern Europe accompanied an unusual snowstorm in southern England. These areas experienced above normal temperatures in November.



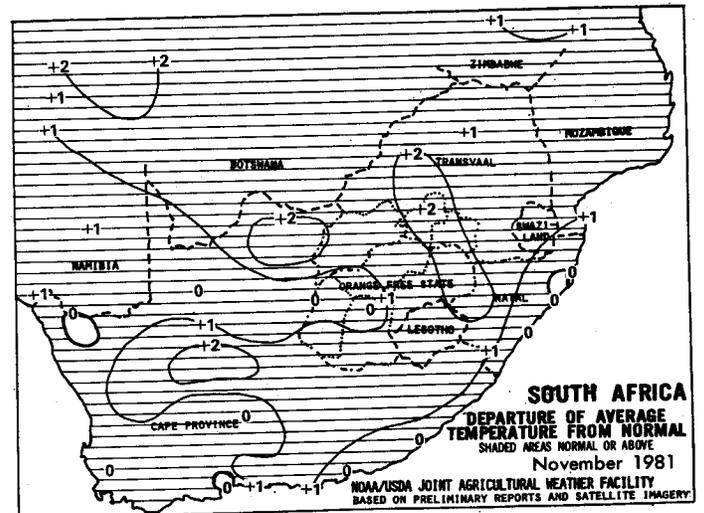
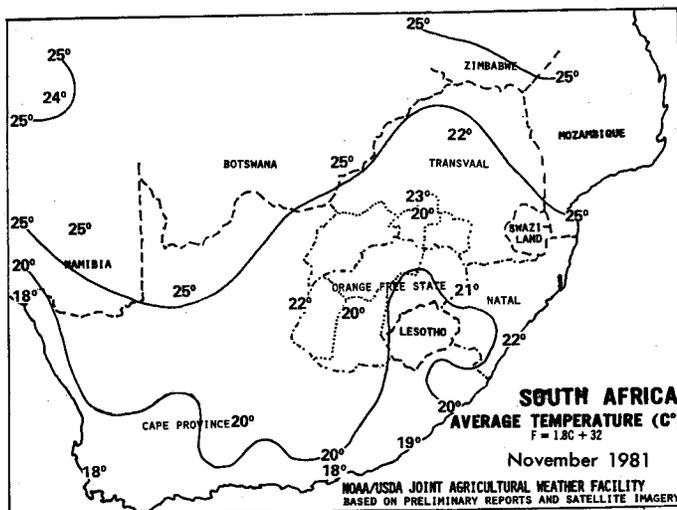
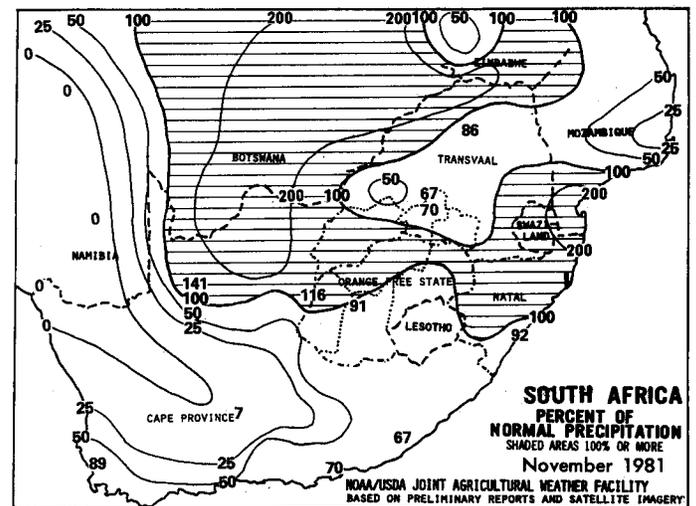
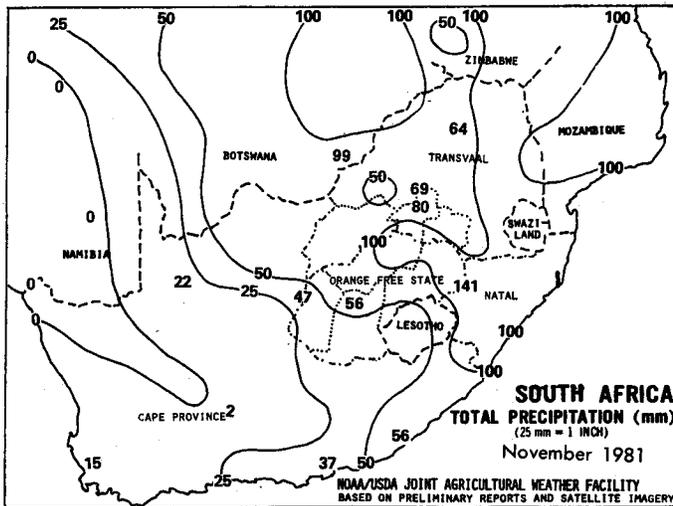
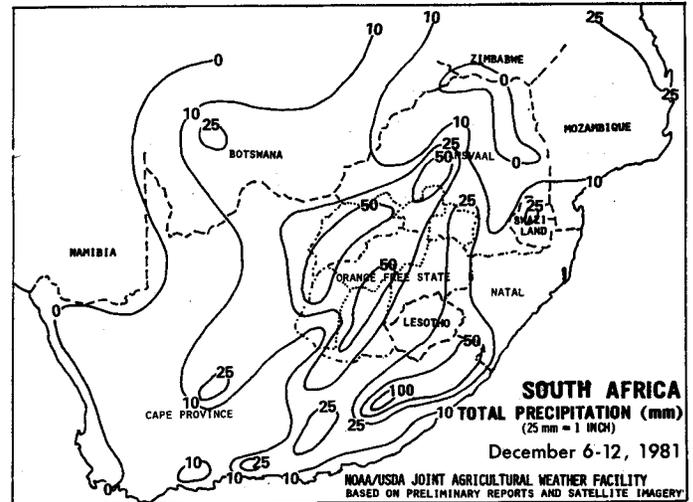
**NORTHWESTERN AFRICA:** Light scattered showers fell on winter grain areas of western Morocco early in the week. The precipitation was still inadequate to allow extensive winter grain planting. Generally below normal rainfall occurred over all of the area in November causing a delay in the planting season. Little precipitation fell on winter grain areas of Algeria and Tunisia this week. Near normal rains in northern and southeastern Tunisia during November allowed winter grain planting.



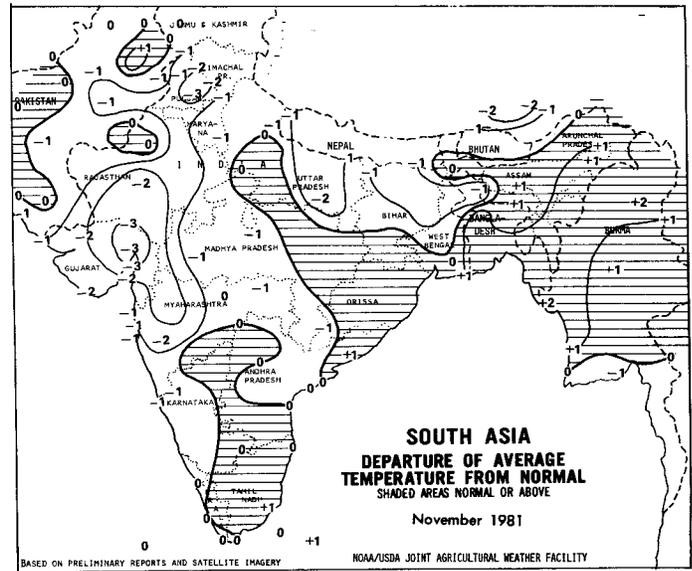
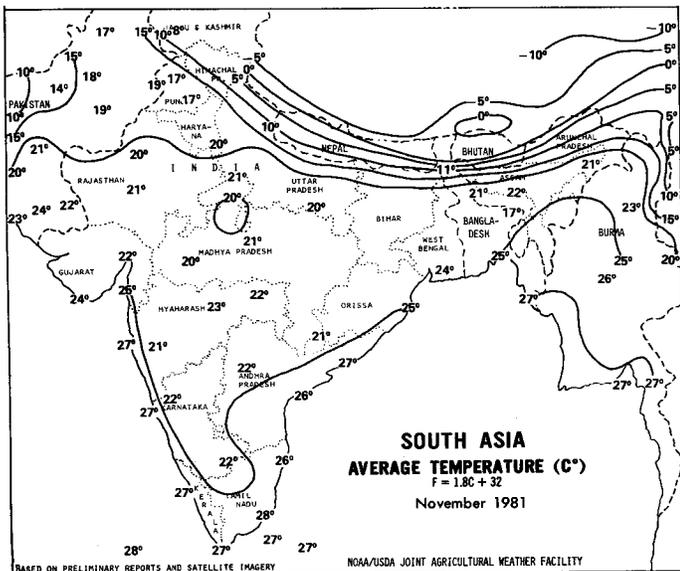
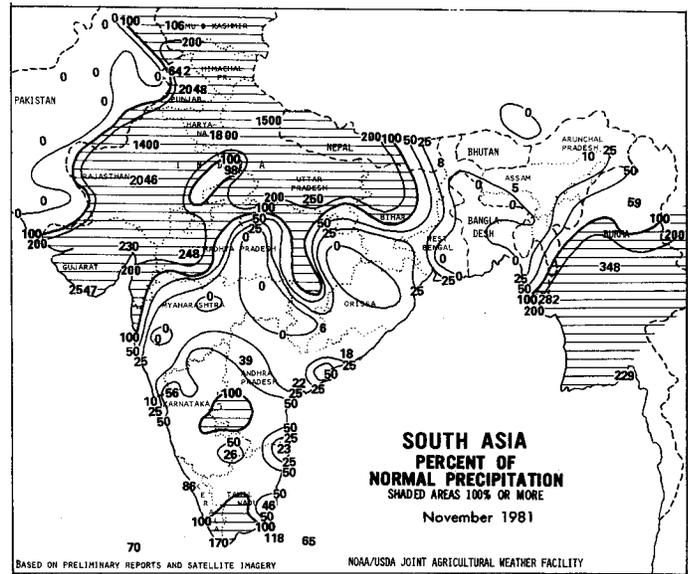
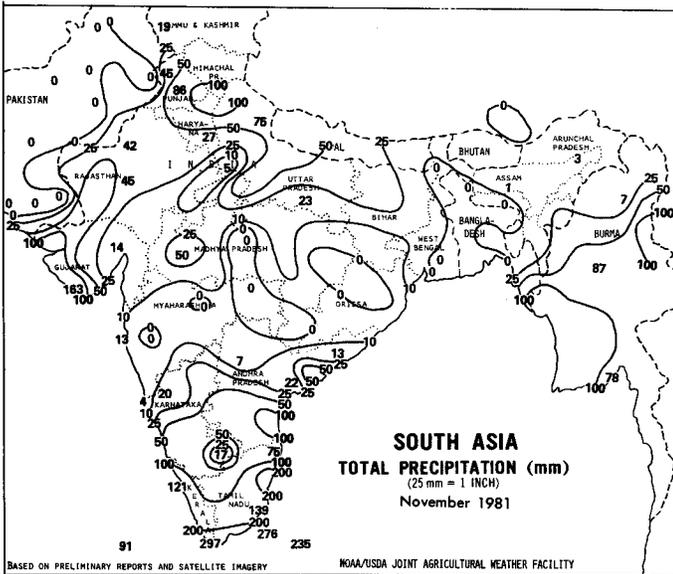
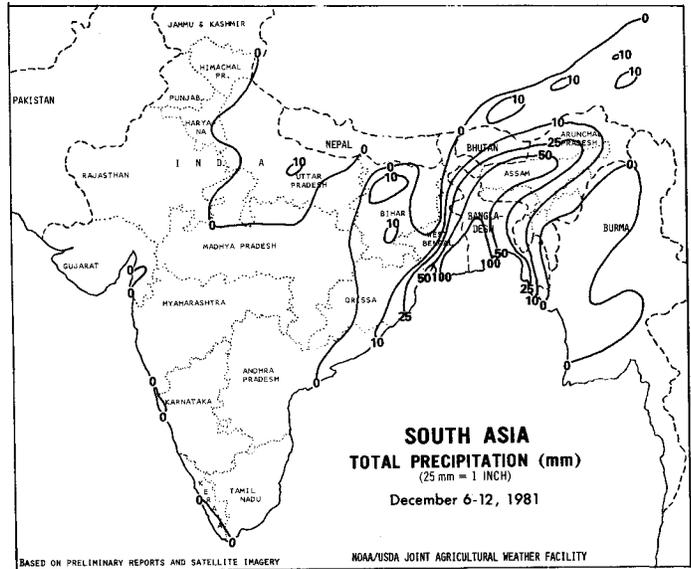
### EURASIA OUTLOOK FOR MID-DECEMBER TO MID-JANUARY



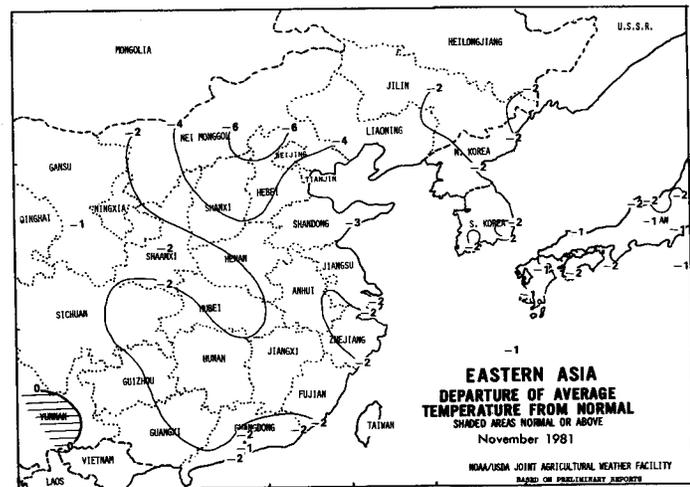
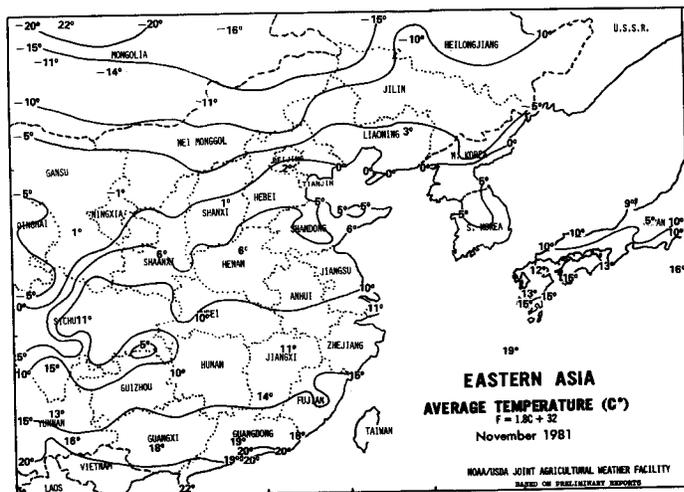
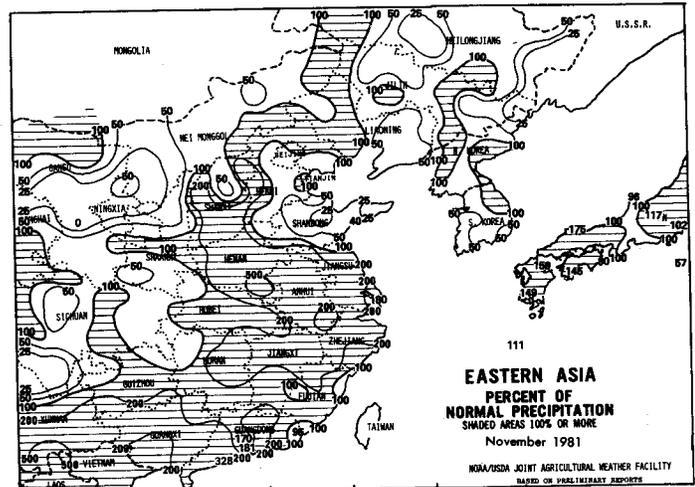
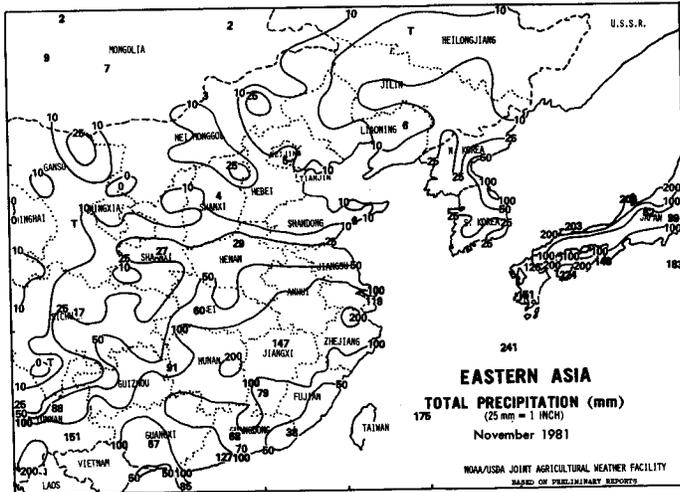
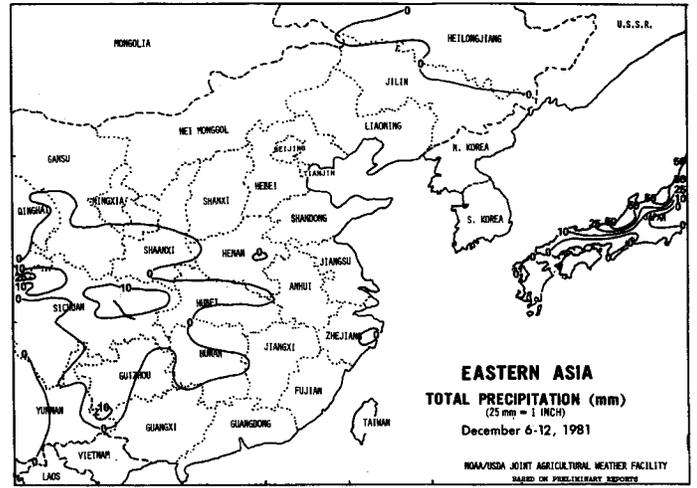
**SOUTH AFRICA:** Widespread showers brought beneficial moisture to all of the Maize Triangle region of South Africa. Corn planting is now over 90 percent complete, about a week behind last season's progress. Moisture is sufficient in nearly all areas for emergence and early growth of the corn crop. November rainfall was above average across the central portion of the major corn producing region while both northern and southern areas received somewhat less than average monthly amounts. November temperatures were above average throughout the region. Timely rains will be needed to sustain good growth conditions as the crop advances through vegetative and reproductive development during January and February.



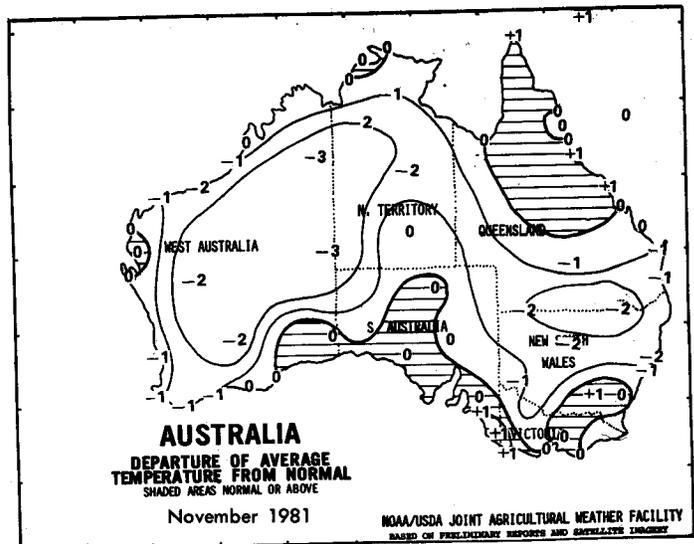
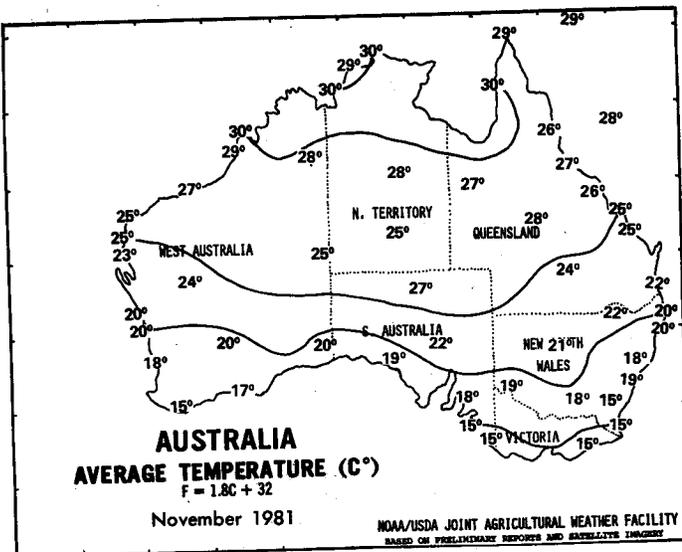
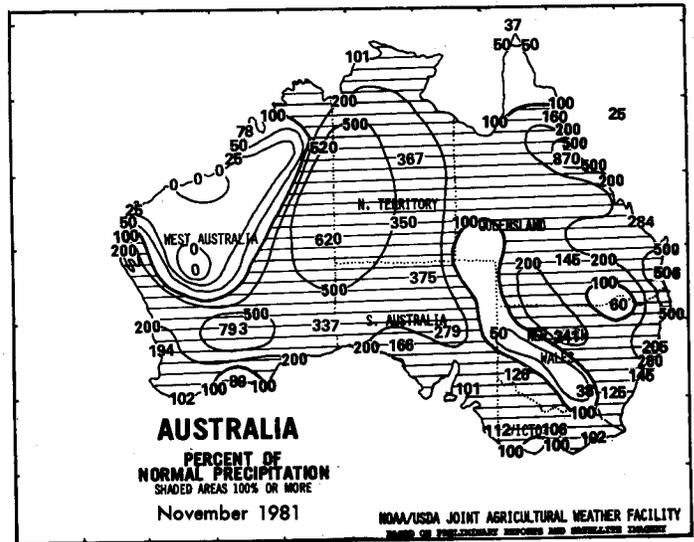
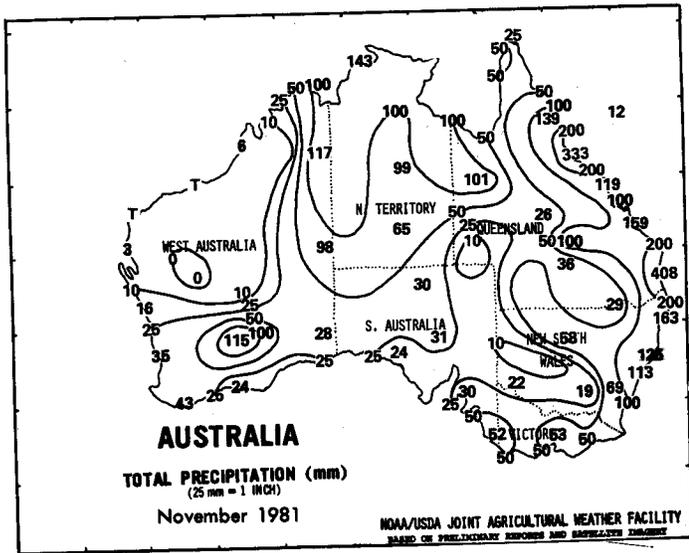
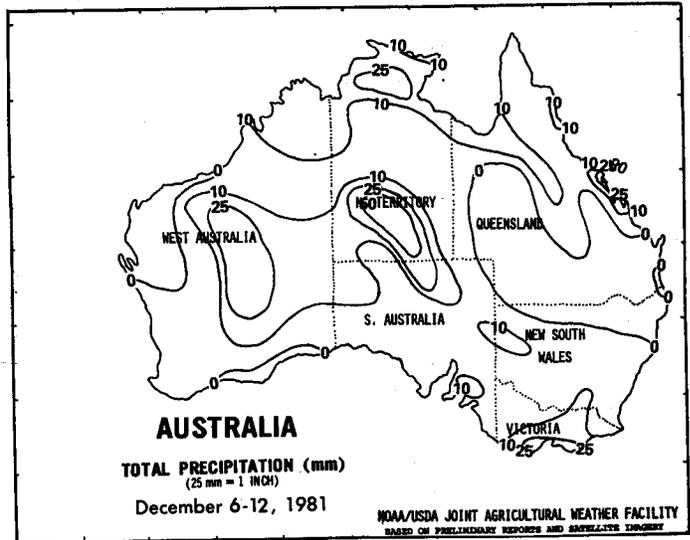
**SOUTH ASIA:** A late season tropical storm moved into West Bengal, Bangladesh, and Assam, producing heavy precipitation ranging from 50 to 100 mm at some locations. Although the heavy rains delayed completion of the winter rice harvest, the moisture was beneficial in relieving dry conditions which had prevailed since October. Little precipitation fell on other crop areas of India. The dry weather aided both the cotton harvest in central India and the winter rice harvest in southeast India. In northern wheat areas, above normal precipitation in November was due primarily to a tropical storm which moved through the area early in the month. Dry weather has prevailed since this event.



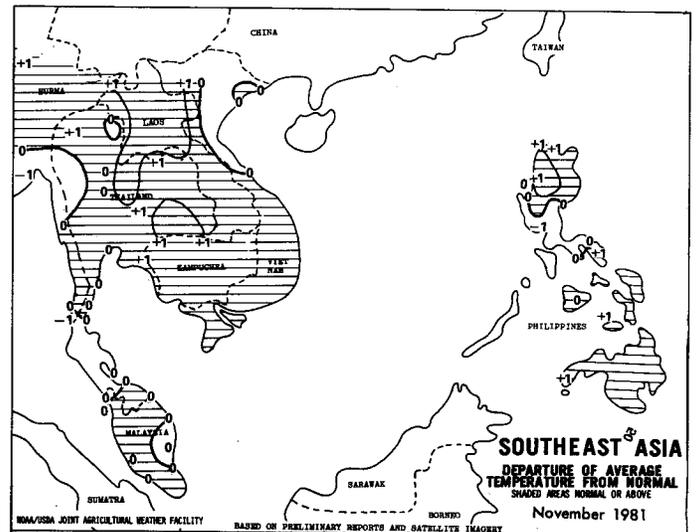
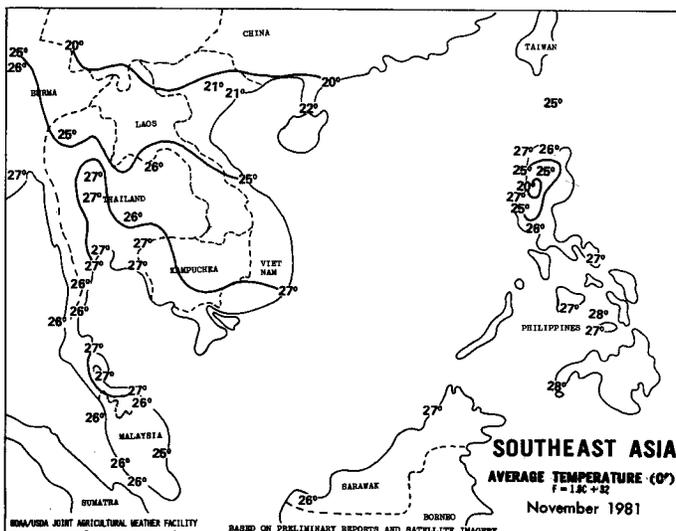
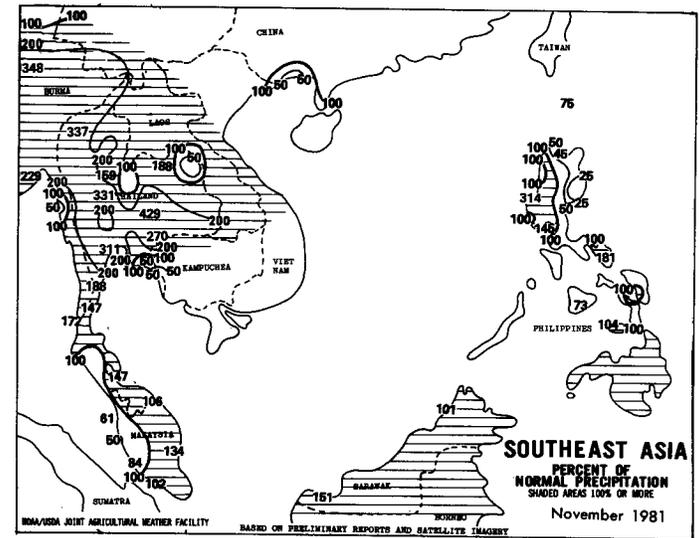
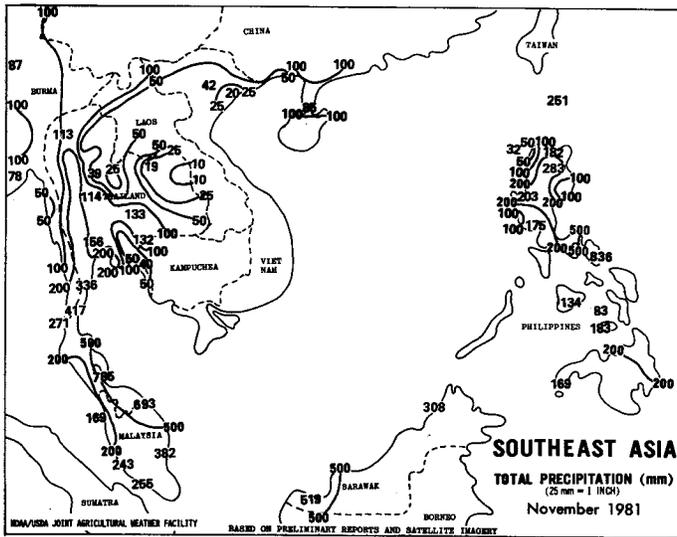
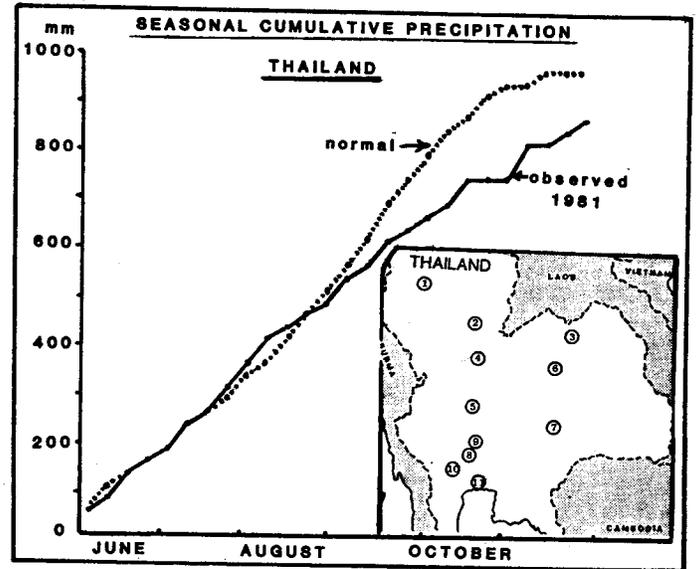
**EASTERN ASIA:** A generally dry weather pattern occurred throughout most of the region. In November, winter wheat became dormant north of the Yangtze River Valley. Below normal November precipitation occurred over winter wheat areas of Hebei and Shandong with above normal amounts in other wheat areas. Above normal November precipitation in south coastal areas caused some delays in the harvest of late rice but recent dry weather has aided harvest activity. Temperatures, although below normal over most of China in November, were slightly above normal this week.



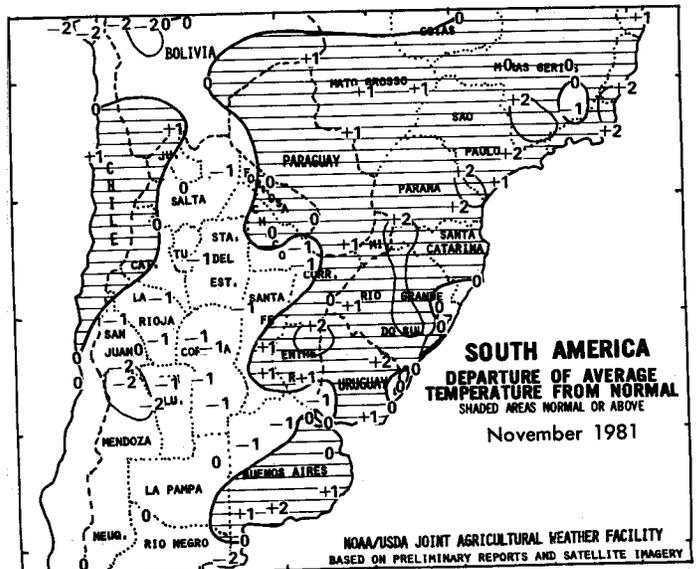
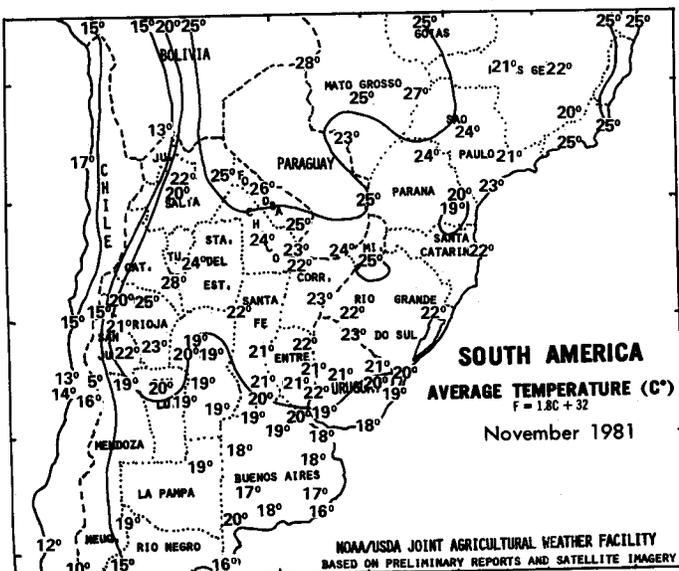
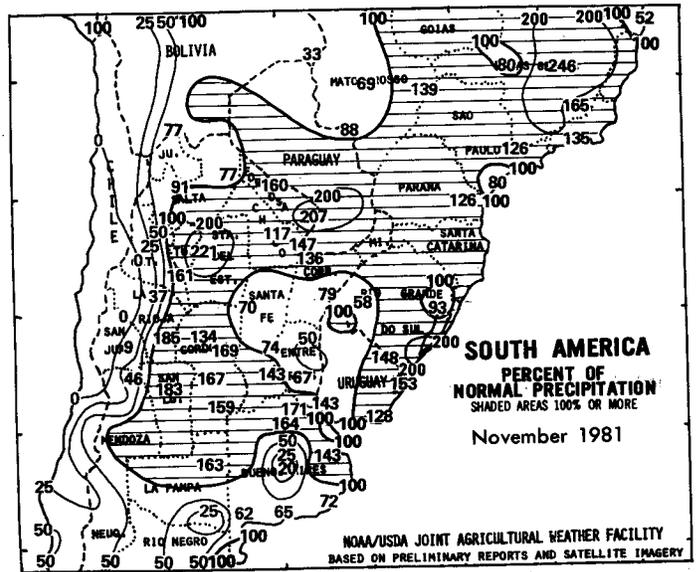
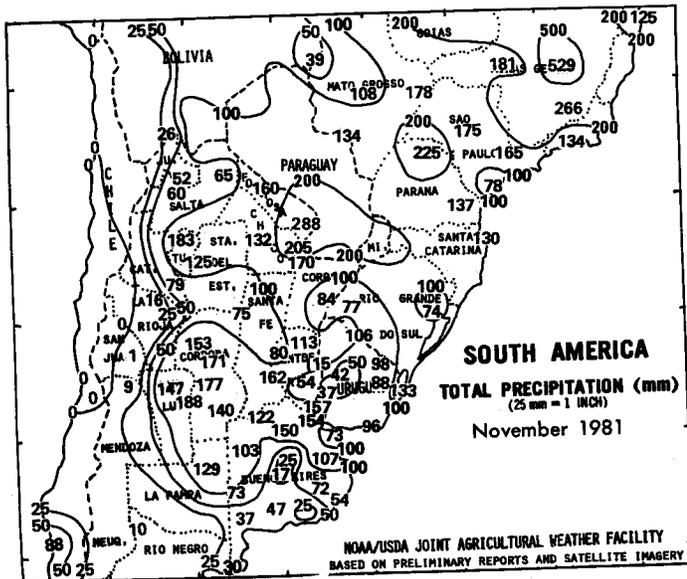
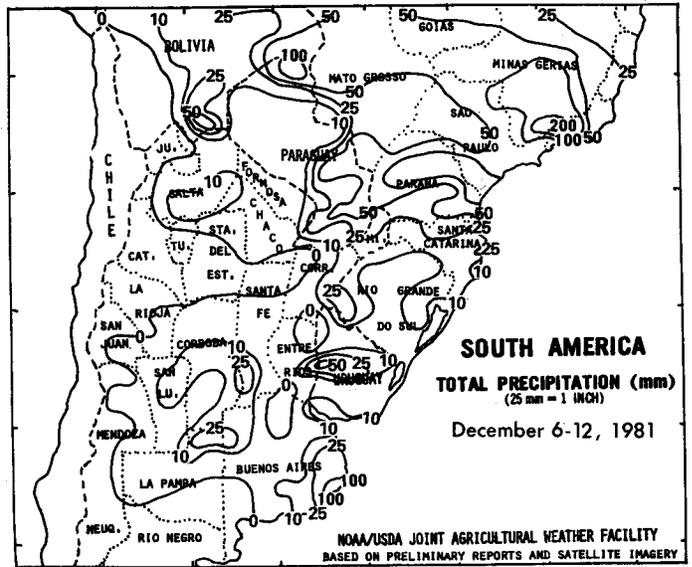
**AUSTRALIA:** Scattered light showers caused no major problems for the wheat harvest underway in all major crop areas. The total grain harvest, including wheat, barley, and oats, has been estimated to be over 30 percent complete by the first week in December with generally dry weather allowing a rapid harvest pace during the past 2 weeks. November rainfall was, in fact, above-average over much of Australia, although monthly totals in the wheat areas were mostly in the 10-40 mm range. Higher monthly rainfall in Victoria benefited the later maturing crops but the significant rains in portions of New South Wales may have reduced the quality of wheat ready for harvesting. Well above average monthly rainfall benefited sugar areas of Queensland and rangelands in Northern Australia.



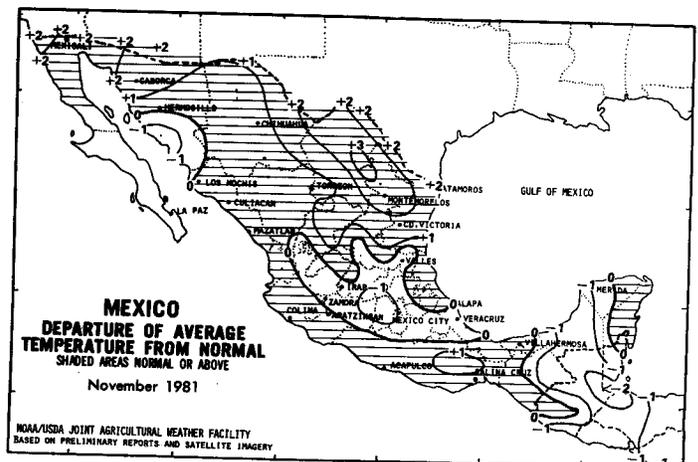
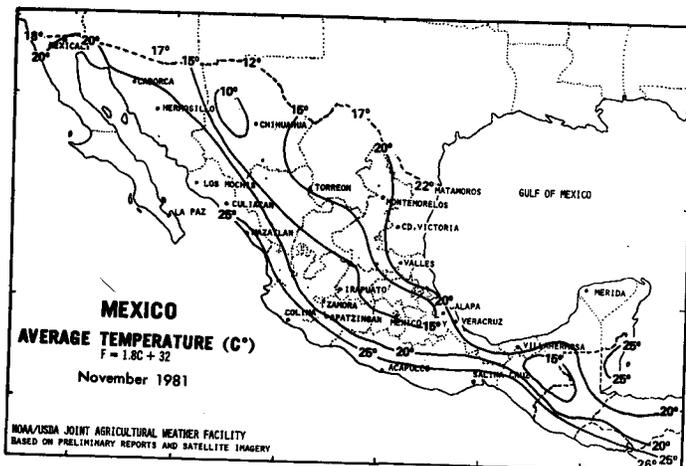
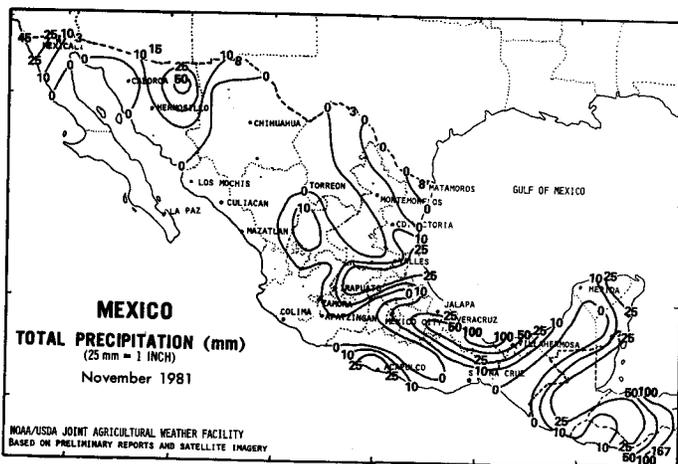
**THAILAND'S 1981 WET SEASON:** Early season rains in May provided a good start for wet-season crops, including corn and rice. The graph compares the 1981 cumulative rainfall with normal accumulations for the period June-November. The values represent an average of eleven stations throughout much of Thailand's agricultural area. Beneficial rains through August provided a nearly normal seasonal distribution which aided crop development and replenished reservoirs used for irrigation and hydroelectric power generation. Rainfall was below average in eastern Thailand during August; this pattern continued over most of the country in September which favored maturing crops. Although seasonal totals fell below average, significant late season rains in October and November improved reservoir levels and brought the seasonal totals to about 88 percent of normal for the regional average. Overall, the 1981 wet season provided a good moisture supply.



**SOUTH AMERICA:** Abundant rainfall during November in nearly all major crop areas of Brazil provided good conditions for early growth of the soybean crop, which is over 85 percent planted, and for late vegetative development of the corn crop. Mostly dry weather during the past week in Rio Grande do Sul aided late soybean plantings. Locally heavy weekly rains in a narrow band of northern Parana may have been excessive for newly emerged crops. In Argentina, above average November rains improved planting and early growth conditions for corn, soybeans, and other crops in northern portions of Buenos Aires and La Pampa, Cordoba, and southern Santa Fe. Scattered showers occurred in this area again this week. Dry weather during the week in much of the wheat area of southern Buenos Aires and La Pampa followed below-average rainfall in November. The dry weather aided maturation and harvesting of the wheat crop. Temperatures in November were generally above average in all crop areas of Brazil and all but western areas of Argentina.



**MEXICO:** Most of the country was sunny and mild, favoring field operations. The exceptions were in parts of the southern Plateau and east central coast where a few showers muddied fields and slowed harvest of corn, sugarcane, and coffee. The west coast had seasonably good weather for tomatoes and other vegetables. Under plentiful sunshine in the Culiacan Valley, maximum temperatures averaged 31°C while overnight minimums were around 17°C. Unusual dryness over the west coast in November was in contrast to the wet, crop-damaging weather of October when three tropical systems slammed into the area. The dry pattern allowed salvaging and replanting of some crops, especially vegetables. The upper eastern citrus area has continued dry since early summer.



**National Weather Summary**

(Continued from page 1.)

FRIDAY...Northerly winds brought light snow to the Northeast. Freezing temperatures were found everywhere in the East except southern Florida. Augusta, Ga., dropped to another record low of 12°. The air temperature was 31° at Tampa, Fla., and 33° at Orlando. Surface temperatures dropped to freezing as far south as the northern everglades. A storm in the Gulf of Mexico brought light rain to the lower Mississippi Valley. The rain moved eastward into Alabama and northeastern Florida. A cold front brought freezing rain and snow to the northern Mississippi Valley.

SATURDAY...The storm in the gulf spread rain and cloud cover over the gulf coast from Louisiana to Florida. Freezing temperatures again reached down the east coast to northeastern Florida. The cloud cover protected the rest of Florida from a hard freeze. Light snow and flurries fell over the eastern Great Lakes and to the central and northern Appalachians. A cold front triggered freezing rain and snow in the northern Mississippi Valley and light showers through the central Plains and northwestern Texas. Another cold front spread showers through northern California, the central Plateau, and Oregon.

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