

# WEEKLY WEATHER AND CROP BULLETIN

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

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

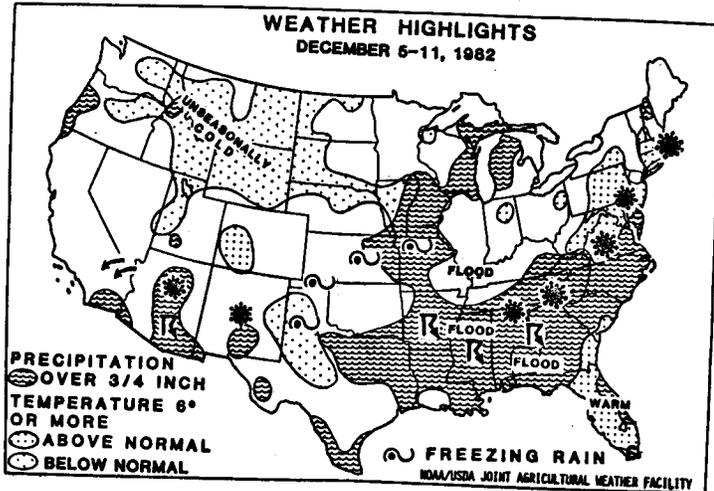
Volume 69, No. 50

WASHINGTON, D.C.

Dec. 14, 1982

## National Weather Summary

December 5 to 11, 1982



covered the northern Plains, and freezing temperatures reached to western Texas.

**TUESDAY ...** Much cooler weather moved over the East, and freezing temperatures during the night covered the Ohio Valley. The northern Plains remained bitterly cold, and warmer weather moved over the southern Plains. Light snowshowers extended from southern Wisconsin to Kansas, the central and northern Rockies, and the central Plateau. A few showers dotted the coast of southern California and dampened the east coast of Florida.

**WEDNESDAY ...** Another outbreak of cold air pushed southward and eastward from Canada. Temperatures sank to subzero levels in the northern Plains and remained below freezing all day as far south as the northern Texas Panhandle. Light rain fell over much of western Texas, but freezing drizzle extended northward through Oklahoma and Kansas to northern Illinois. Light snow extended through the Great Lakes to New England. An intense storm building off southern California spread moisture with rain or snow from southern California to western Texas and into Utah. A few showers fell in the southeastern United States.

**THURSDAY ...** The subzero temperatures moved over the western Great Lakes and into Iowa. Freezing weather pushed over the Sierras into California's San Joaquin Valley. The intense storm off southern California continued to spread a variety of precipitation from southern California eastward to Louisiana and Missouri. Heavy showers were accompanied by high winds in southern California. Rain with snow in the Arizona mountains became all snow to the north.

**FRIDAY ...** The intense storm in the Southwest began to move eastward, and a flow of air from the south, ahead of the storm, spread precipitation from Arizona and Utah eastward to the Atlantic and through the southern Great Lakes region to the Northeast. Very cold air headed into the Rockies and Plains. Rain with snow at high elevations continued in the West; freezing rain  
(continued on p.4)

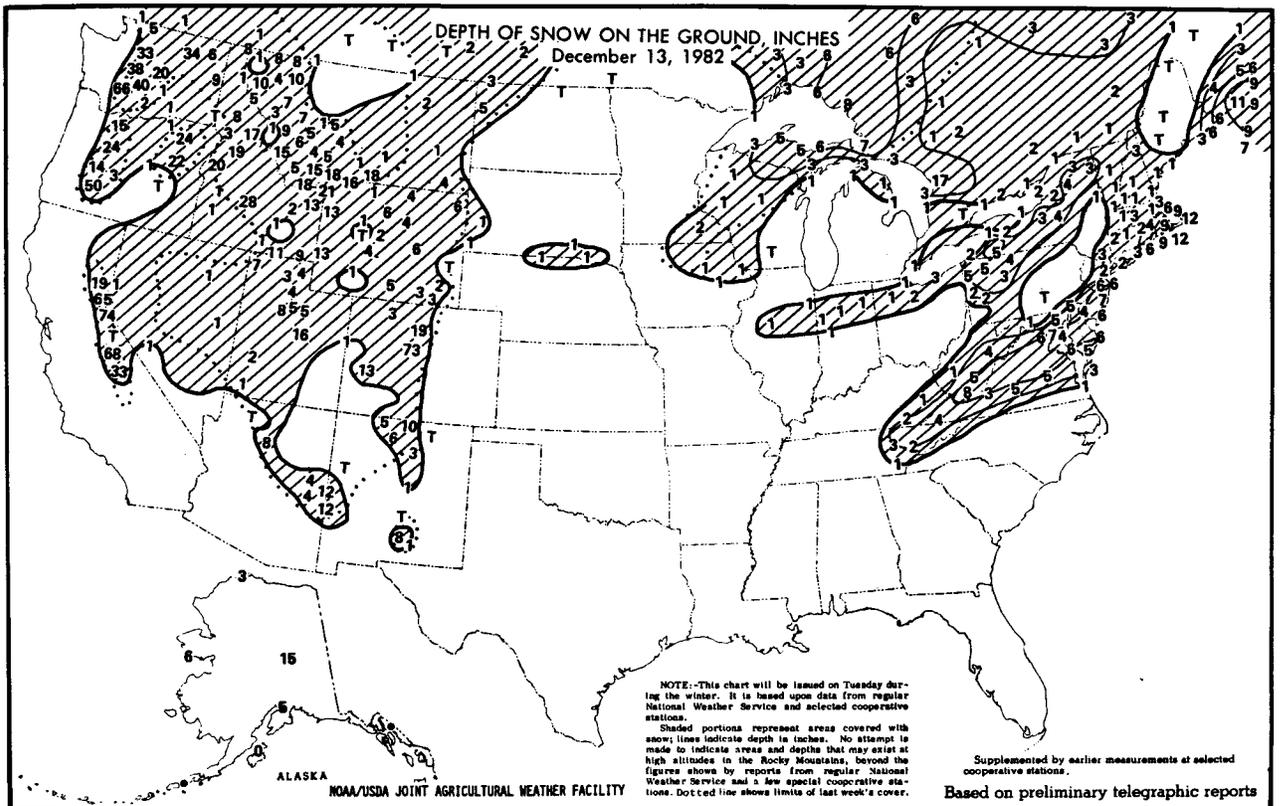
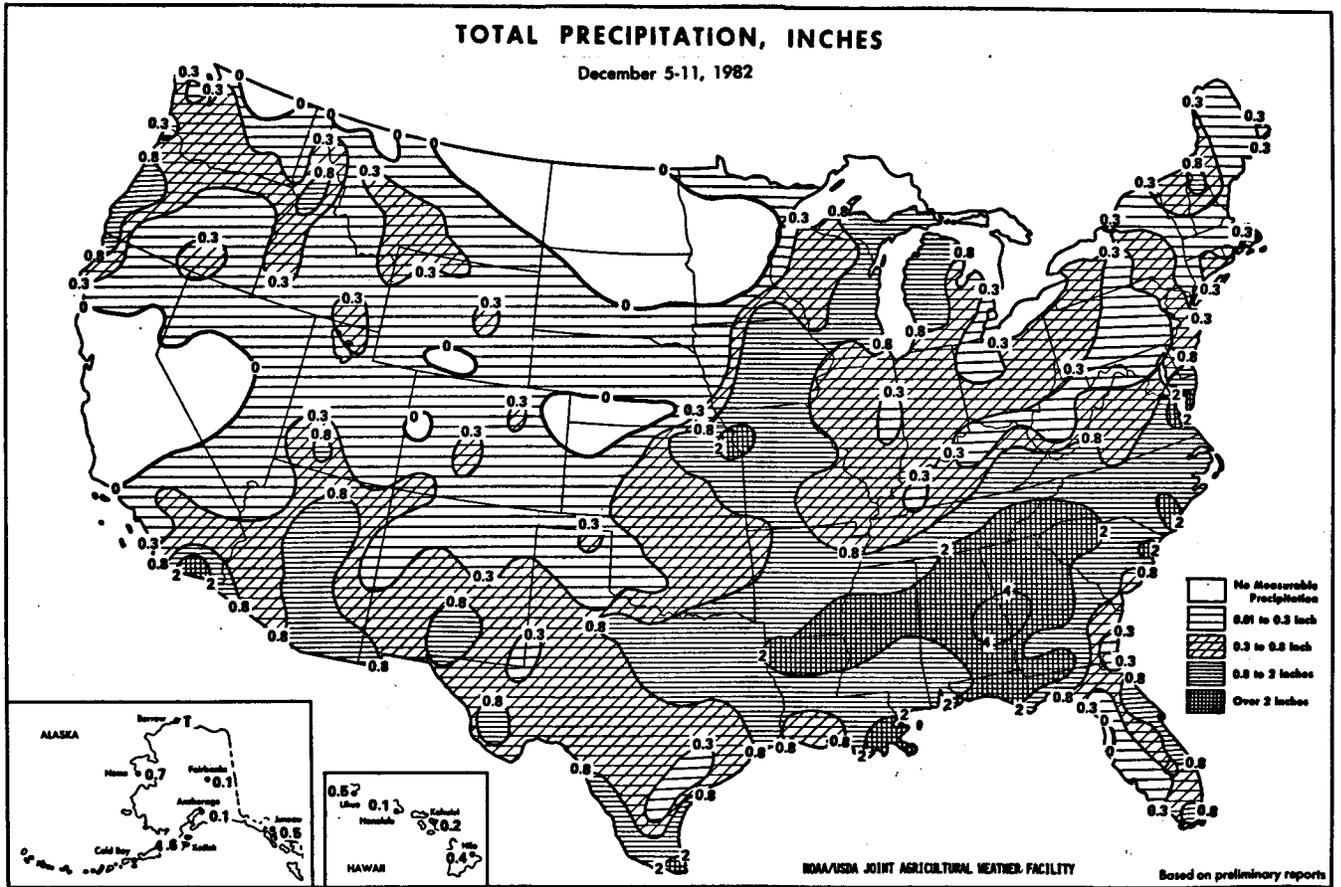
**HIGHLIGHTS ...** A departing frontal system gave one more day of moderate to heavy rain to the lower Missouri Valley which exacerbated flood conditions in the area. Later, an intense storm off the coast of southern California moved eastward and spread a variety of precipitation from southern California to the Atlantic Ocean, and from Utah through the Ohio Valley and Great Lakes to the mid-Atlantic and northeastern States. Heavy rain accumulated from Louisiana through Georgia, and the season's first snow for many areas reached from northern Alabama to Virginia and northward. Very cold weather in the northern Plains and Rockies averaged as much as 12 to 15° colder than normal. The east coast stayed unusually warm most of the week before turning sharply colder.

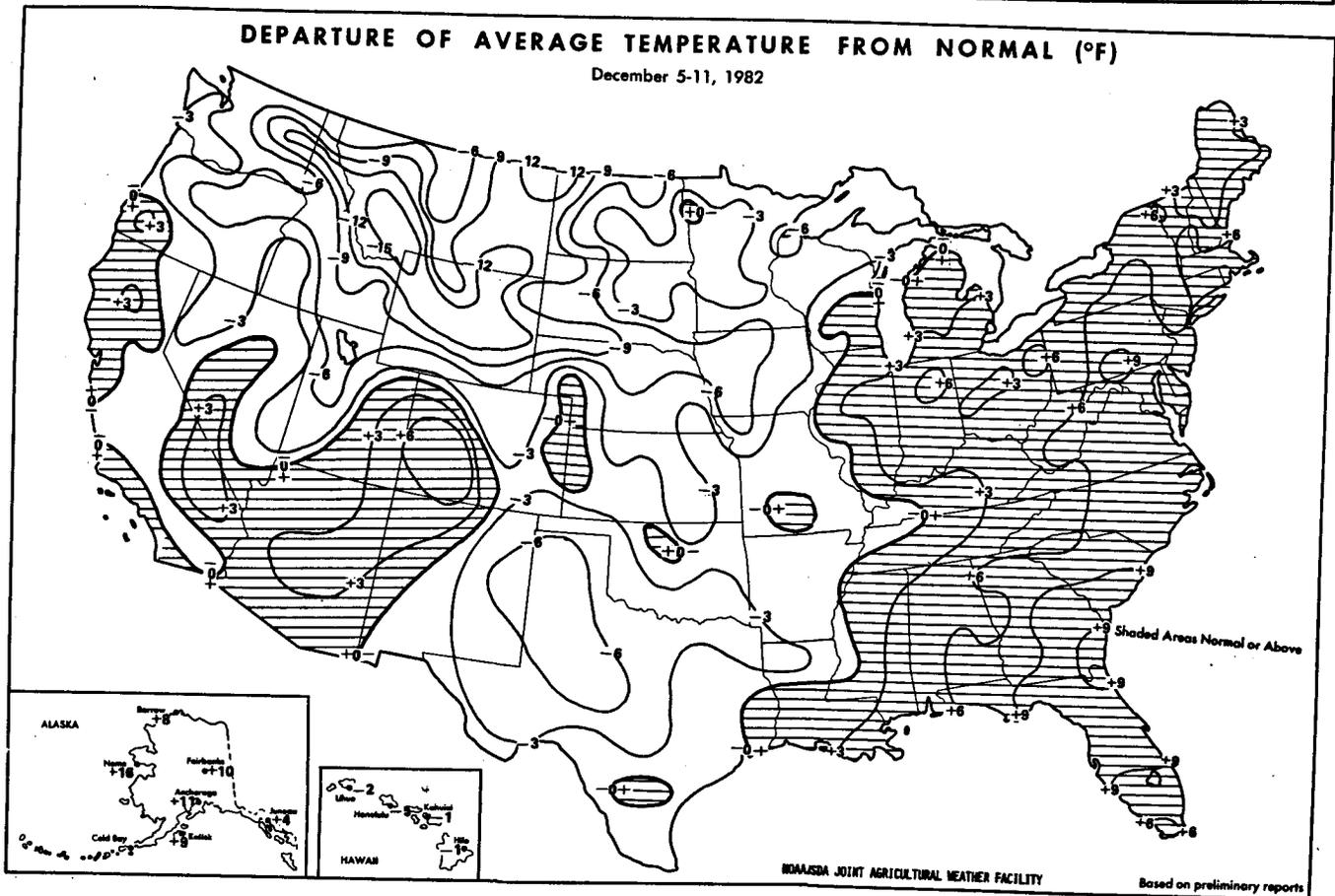
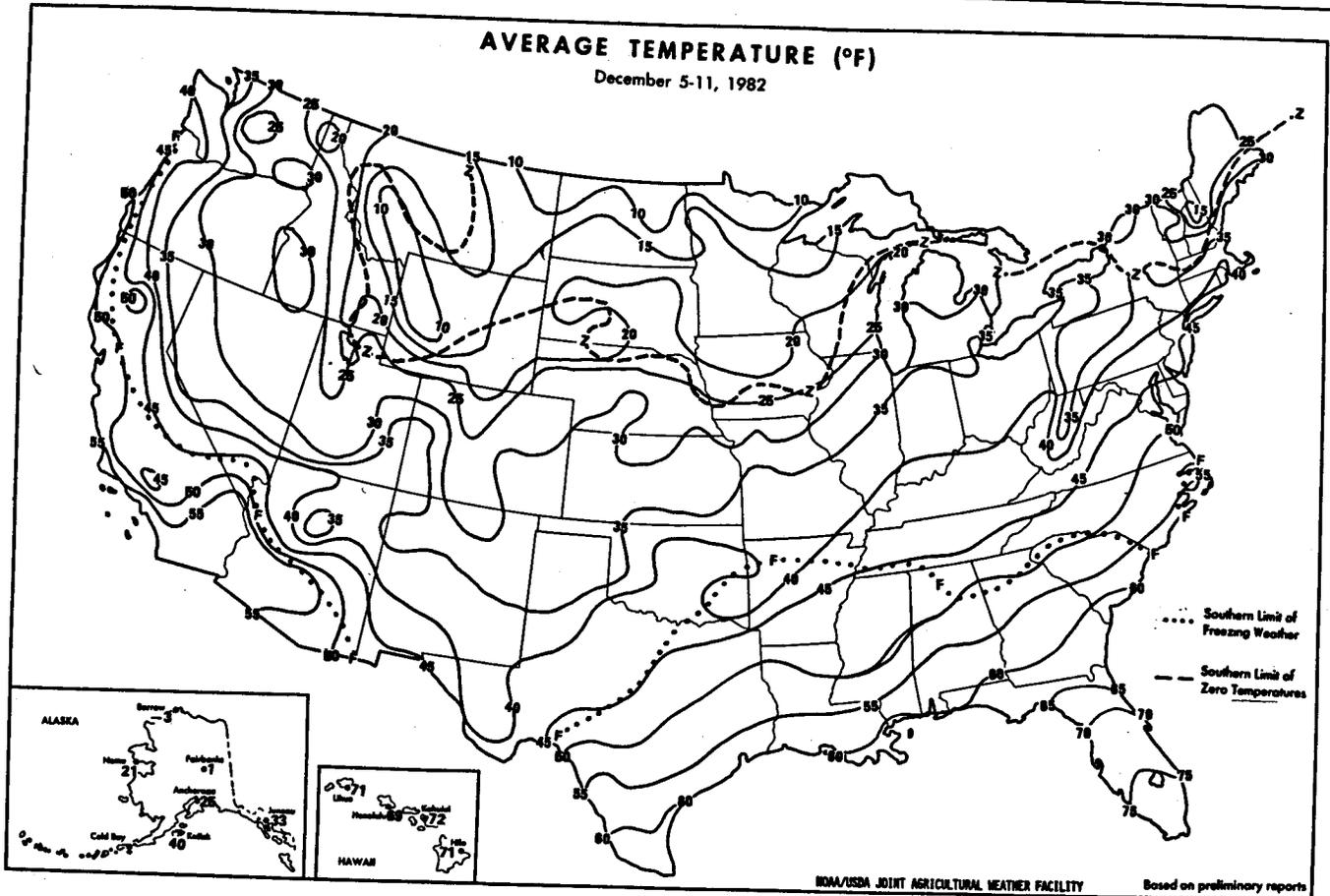
**SUNDAY ...** A slow-moving frontal system from New England to Illinois and southward through the Florida Panhandle continued to spread rain from the mid-Mississippi Valley through the Great Lakes Region to the east coast, southward to northern Florida, and through all of the eastern States. The rain swelled the already filled streams through the Midwest but changed to snow late in the day from Iowa through the western Great Lakes. Light to moderate showers spread over the Pacific Northwest from northern California to the northern Rockies. Unusually warm weather continued over the East ahead of the frontal system.

**MONDAY ...** Showers continued along the east coast as the frontal system moved into the Atlantic, but many cities in the Northeast reached record warm temperatures before the cooler air moved in. Light rainshowers fell south of the Great Lakes and snow showers covered the northern Plains and Rockies. Light rain fell intermittently over Washington and Oregon. Bitterly cold weather

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Weather Data for the Week Ending Dec. 11, 1982

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. 28	PCT. NORMAL SINCE NOV. 28	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	57	39	65	35	48	2	3.1	1.9	2.0	12.4	539	70.5	145	92	57	0	0	4	2
MOBILE	66	48	71	43	57	3	1.5	.1	1.4	5.2	200	70.6	115	90	55	0	0	2	1
AK ANCHORAGE	65	49	69	41	57	7	4.0	2.8	3.2	6.4	291	62.1	137	88	52	0	0	3	2
BARROW	31	19	43	11	25	11	.1	.2	1	.8	133	17.7	125	90	62	0	7	4	0
FAIRBANKS	2	-7	13	-22	-3	8	T	.1	T	0	0	4.6	88	85	58	0	7	0	0
JUNEAU	10	-8	22	-22	1	10	.1	.1	.1	.6	200	12.7	118	85	63	0	7	3	0
KODIAK	36	30	39	27	33	4	.5	.5	.2	.6	29	42.1	83	99	86	0	5	5	0
NOME	43	36	45	29	40	9	4.6	3.5	1.5	5.0	217	61.9	118	91	72	0	2	6	4
AZ PHOENIX	28	15	32	-7	21	16	.7	.5	.5	.7	175	18.8	117	80	56	0	7	4	1
PRESCOTT	66	50	71	43	58	5	1.6	1.4	.7	2.3	767	10.0	159	91	47	0	0	3	2
TUCSON	53	34	59	30	44	4	1.0	.6	.4	2.4	343	14.3	85	82	32	0	3	3	0
YUMA	65	43	71	37	54	1	1.0	.8	.9	1.9	475	13.3	130	79	36	0	0	3	1
AR FORT SMITH	67	50	72	45	58	1	1.9	1.9	1.8	1.9	1900	4.9	196	66	41	0	0	2	1
LITTLE ROCK	49	33	58	22	42	-2	.7	0	.6	4.7	336	46.5	117	95	64	0	2	2	1
CA BAKERSFIELD	50	36	59	25	43	-2	.9	0	.8	3.0	167	56.6	130	95	69	0	1	3	1
EUREKA	56	39	65	37	48	-2	0	.1	0	1.0	333	7.7	154	100	66	0	0	0	0
FRESNO	58	42	62	35	50	1	.4	.4	.4	4.2	140	39.5	115	89	64	0	0	2	0
LOS ANGELES	54	38	63	32	46	-1	0	.4	0	1.3	163	14.2	160	97	68	0	1	0	0
RED BLUFF	65	52	69	47	58	1	T	.4	T	1.2	150	13.1	126	87	48	0	0	1	0
SACRAMENTO	61	41	67	34	51	3	0	.8	0	1.6	100	21.6	114	80	42	0	0	1	0
SAN DIEGO	66	52	69	46	59	1	.5	.2	.4	1.1	183	12.0	154	90	56	0	0	4	0
SAN FRANCISCO	56	45	61	38	51	0	T	.8	T	1.8	113	30.9	193	83	54	0	0	0	0
CO DENVER	39	23	51	14	31	-3	.2	.1	.1	.3	150	12.4	86	87	54	0	7	4	0
GRAND JUNCTION	48	30	53	27	39	7	T	.1	T	0	0	8.0	101	86	48	0	6	0	0
PUEBLO	42	22	54	18	32	-2	T	0	T	0	0	14.8	129	96	54	0	7	2	0
CT BRIDGEPORT	47	37	60	13	42	6	.1	.8	.1	1.3	72	41.5	115	79	49	0	3	1	0
HARTFORD	46	28	67	5	37	6	.2	.8	.1	.8	40	47.0	118	79	41	0	4	4	0
DC WASHINGTON	55	38	72	22	47	7	.1	.6	.1	2.3	164	34.7	95	82	45	0	2	2	0
FL APALACHICOLA	70	58	73	51	64	8	1.7	.9	1.1	2.9	181	68.8	127	89	69	0	0	2	2
DAYTONA BEACH	76	65	83	62	71	10	1.5	1.1	1.0	1.5	188	49.2	102	89	67	0	0	4	1
JACKSONVILLE	70	58	82	54	64	8	.2	.4	.1	.2	20	49.8	95	97	73	0	0	5	0
KEY WEST	81	74	82	72	77	5	T	.3	T	.2	29	36.4	94	82	63	0	0	1	0
MIAMI	81	70	83	66	75	6	.6	.2	.6	.6	86	66.7	115	93	63	0	0	2	1
ORLANDO	81	65	86	64	73	11	.3	.1	.3	.5	63	51.1	103	96	62	0	0	2	0
TALLAHASSEE	70	56	74	48	63	9	2.2	1.2	1.2	2.4	133	56.8	98	91	69	0	0	3	2
TAMPA	80	67	83	63	73	11	T	.5	T	0	0	54.5	115	97	68	0	0	0	0
WEST PALM BEACH	80	70	84	66	75	8	.5	0	.2	.6	67	79.6	133	88	65	0	0	4	0
GA ATLANTA	57	42	66	37	50	5	3.4	2.5	1.7	5.6	311	54.6	122	89	59	0	0	3	2
AUGUSTA	64	47	78	41	56	8	1.6	.8	1.4	2.3	153	37.9	94	82	54	0	0	3	1
MACON	65	50	70	44	58	8	2.7	1.8	2.1	3.5	206	44.3	109	92	64	0	0	3	2
SAVANNAH	66	56	77	49	61	10	.6	.1	.3	.7	54	49.2	101	83	62	0	0	4	0
HI HILO	79	64	81	60	71	-1	.4	-3.5	.3	1.5	19	164.2	135	84	59	0	0	2	0
HONOLULU	76	63	80	56	69	-5	.1	-.6	.1	.1	7	32.1	162	95	61	0	0	2	0
KAHULUI	81	64	84	59	72	-1	.2	-.4	.2	.2	17	28.2	176	81	51	0	0	3	0
LIHUE	77	65	80	58	71	-2	.5	-.9	.2	1.0	36	71.3	185	78	55	0	0	4	0
ID BOISE	40	25	48	21	33	-1	.4	0	.2	.9	129	12.4	113	86	54	0	5	2	0
LEWISTON	35	27	40	22	31	-5	.2	-.1	.2	.4	67	12.0	100	95	73	0	7	1	0
POCATELLO	31	15	40	5	23	-5	.3	-.1	.2	1.5	300	16.8	168	88	64	0	6	2	0
IL CHICAGO	38	23	63	9	31	1	.4	0	.4	6.1	763	42.3	139	89	62	0	6	2	0
MOLINE	36	23	50	10	29	0	.5	.1	.5	4.7	588	42.9	129	83	61	0	6	2	0
PEORIA	41	25	61	10	33	3	.4	0	.3	4.2	525	43.2	130	84	62	0	5	3	0
QUINCY	39	26	51	12	32	0	.7	.3	.4	6.2	775	45.9	--	87	66	0	5	2	0
ROCKFORD	36	21	58	5	28	1	.4	0	.4	3.2	356	42.5	122	86	61	0	6	3	0
SPRINGFIELD	41	28	60	15	34	2	.7	.2	.3	7.7	770	42.5	130	88	65	0	4	3	0
IN EVANSVILLE	49	34	66	27	41	5	.4	-.4	.3	3.7	231	47.7	121	88	58	0	5	3	0
FORT WAYNE	44	29	64	15	37	6	.3	-.2	.2	2.1	191	40.1	119	89	60	0	5	3	0
INDIANAPOLIS	45	30	63	19	37	4	.4	-.2	.3	2.9	223	38.4	107	91	58	0	6	3	0
SOUTH BEND	41	30	64	16	36	5	.4	-.2	.4	2.3	192	38.5	114	90	61	0	5	2	0
IA DES MOINES	32	16	43	5	24	-4	1.1	-.8	1.0	1.7	283	42.5	146	79	56	0	7	2	1
SIoux CITY	30	10	45	-2	20	-6	.2	-.1	.1	.4	67	28.4	112	91	59	0	7	2	0
WATERLOO	28	12	42	-7	20	-4	1.9	1.6	1.7	2.1	420	33.4	105	89	67	0	7	2	1
KS CONCORDIA	36	20	47	10	28	-5	.8	-.6	.5	1.0	250	36.4	137	89	54	0	7	3	1
DODGE CITY	40	26	53	19	33	-2	.2	-.2	.2	.2	200	18.6	96	79	46	0	6	1	0
GOODLAND	41	23	54	17	32	0	T	-.1	T	0	0	25.0	155	86	46	0	7	0	0
TOPEKA	38	26	46	16	32	-2	2.1	1.7	1.3	2.3	288	36.9	111	85	64	0	7	3	2
WICHITA	41	26	51	-15	33	-3	.5	-.2	.2	.7	140	26.2	90	94	59	0	6	3	0
KY BOWLING GREEN	50	31	65	25	41	1	.4	-.5	.3	1.9	100	44.8	102	98	60	0	6	4	0
LEXINGTON	49	30	66	21	40	3	.2	-.6	.2	1.6	100	35.3	87	91	57	0	5	3	0
LOUISVILLE	50	32	65	26	41	4	.3	-.5	.3	1.0	63	40.7	101	80	51	0	6	3	0
LA ALEXANDRIA	62	45	68	40	54	1	1.1	0	.8	6.9	314	57.2	--	77	48	0	0	2	1
BATON ROUGE	66	45	73	40	56	2	1.0	-.2	.5	9.9	430	50.6	101	88	52	0	0	2	1
LAKE CHARLES	66	46	71	42	56	1	.3	-.1	.2	2.4	96	51.1	100	95	60	0	0	2	0
NEW ORLEANS	68	50	71	44	59	3	1.6	.5	1.6	7.8	355	62.6	119	93	59	0	0	2	1

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

+100 = NORMAL & ACTUAL NEAR THE SAME

(continued from p.1)

changed to rain in New Mexico and western Texas, and snow became mixed with rain through the Ohio Valley; snow began in the Northeast. Moderate, occasionally heavy, rain spread across the South.

SATURDAY ... Precipitation reached from Texas through Kentucky to the Northeast. Rain was

moderate to heavy from northern Louisiana through most of Alabama and Georgia, through the Appalachians to eastern West Virginia, and the Atlantic Coast States to Virginia. Snow whitened the western part of the Northeast and extended as far south as Virginia and western North Carolina and through the mountains to northern Alabama. Subzero temperatures pushed into the northern Plains through South Dakota and Minnesota.

Weather Data for the Week Ending Dec. 11, 1982

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. 28	PCT. NORMAL SINCE Nov. 28	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	TEMPERATURE °F		PRECIPITATION	
																		90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
ME SHREVEPORT	56	38	63	36	47	-3	2.1	-1.2	1.4	7.1	394	41.7	102	99	63	0	0	0	0	0	0
ME CARIBOU	31	16	54	-6	24	5	.1	-.7	.1	.7	54	34.2	100	81	50	0	0	6	4	3	2
ME PORTLAND	42	24	61	2	33	5	.3	-.7	.2	.7	33	38.9	104	84	42	0	0	4	4	1	0
MD BALTIMORE	53	34	71	16	43	6	1.1	-.7	.1	1.7	106	34.3	91	87	46	0	0	4	3	1	0
MD SALISBURY	56	36	74	18	46	6	1.6	-.9	.8	3.0	214	39.6	95	97	57	0	0	4	2	2	0
MA BOSTON	49	34	70	11	42	6	.1	-.9	.1	.7	33	43.5	110	79	38	0	0	4	3	3	0
MA CHATHAM	49	37	61	23	43	6	.8	-.1	.3	1.6	170	25.1	97	87	67	0	0	2	4	0	0
MA ALPENA	34	18	52	0	26	6	.8	-.4	.8	1.7	170	25.1	97	89	54	0	0	2	6	3	0
MI DETROIT	42	27	60	15	34	4	.3	-.2	.2	1.5	136	31.7	107	85	54	0	0	2	4	0	0
MI FLINT	40	26	62	13	33	4	.4	0	.3	1.6	200	26.9	97	83	56	0	0	5	3	0	0
MI GRAND RAPIDS	39	26	63	13	32	3	.9	-.3	.8	4.2	382	33.9	113	78	53	0	0	5	3	1	1
MI HOUGHTON LAKE	32	21	53	12	26	1	1.0	-.5	.9	2.1	191	30.0	112	85	58	0	0	5	4	1	1
MI LANSING	38	24	63	11	31	2	.9	-.4	.5	2.4	240	26.6	93	93	62	0	0	5	3	0	0
MI MARQUETTE	22	8	35	-8	15	-5	.8	-.2	.7	.9	69	35.2	104	90	69	0	0	7	4	1	1
MI MUSKOGON	38	26	60	11	32	2	.9	-.3	.7	4.4	367	35.6	122	85	59	0	0	5	4	1	1
MI SAULT STE. MARIE	27	10	38	-6	18	-4	1.8	1.3	.9	2.4	200	34.9	118	97	70	0	0	7	6	1	1
MN ALEXANDRIA	22	7	35	-1	15	-3	T	-.1	T	0	0	26.5	111	79	35	0	0	7	0	0	0
MN DULUTH	20	1	33	-7	11	-6	T	-.3	T	.1	17	32.7	115	78	47	0	0	7	0	0	0
MN INT'L FALLS	21	-2	37	-10	9	-3	T	-.2	T	0	0	24.5	98	86	55	0	0	7	2	0	0
MN MINNEAPOLIS	27	11	39	1	19	-3	T	-.2	T	0	0	23.8	96	76	36	0	0	7	0	0	0
MN ROCHESTER	27	9	37	-5	18	-3	T	-.2	T	0	0	23.8	96	76	36	0	0	7	0	0	0
MS GREENWOOD	55	41	65	34	48	1	2.9	1.7	.9	1.3	325	35.0	132	81	56	0	0	7	1	1	1
MS JACKSON	60	38	67	33	49	-1	2.0	.9	1.5	10.4	473	68.7	155	98	61	0	0	0	2	2	2
MS MERIDIAN	63	44	68	41	53	4	1.2	0	1.0	9.4	409	59.9	130	85	52	0	0	0	2	2	2
MO CAPE GIRARDEAU	47	32	61	23	39	-1	.6	-.1	.3	4.6	307	49.3	121	99	69	0	0	4	3	0	1
MO COLUMBIA	41	28	54	16	34	0	1.1	.6	.6	5.3	589	46.5	132	94	67	0	0	5	2	1	1
MO KANSAS CITY	38	25	45	13	31	-2	2.3	2.0	1.4	2.5	417	45.7	130	90	63	0	0	6	3	2	1
MO SAINT LOUIS	43	29	61	17	36	0	1.0	.5	.8	5.5	550	52.5	157	97	66	0	0	4	2	1	1
MO SPRINGFIELD	45	30	56	16	38	0	1.0	.4	.8	6.9	627	45.8	123	84	59	0	0	3	2	1	1
MT BILLINGS	26	12	36	3	19	-9	.2	0	.2	.7	175	17.8	133	90	66	0	0	7	2	0	0
MT GLASGOW	22	-2	34	-14	10	-10	T	-.1	T	.4	200	11.5	114	82	56	0	0	7	0	0	0
MT GREAT FALLS	29	8	39	-4	18	-10	T	-.1	T	.1	33	16.9	119	82	50	0	0	7	2	0	0
MT HAVRE	28	5	38	-6	17	-5	T	-.1	T	.1	100	14.5	129	94	57	0	0	7	2	0	0
MT HELENA	20	4	39	-15	12	-13	T	-.3	T	.3	50	17.9	124	88	60	0	0	7	2	1	0
MT KALISPELL	26	13	37	5	20	-6	T	-.3	T	.3	50	17.9	124	88	60	0	0	7	2	1	0
MT MILES CITY	22	3	31	-9	13	-12	T	-.1	T	.4	200	15.0	116	86	58	0	0	7	1	0	0
MT MISSOULA	20	8	33	-4	14	-13	T	-.1	T	.4	80	14.7	124	96	77	0	0	7	1	0	0
NE GRAND ISLAND	35	15	47	5	25	-4	.3	-.1	.3	.4	80	14.7	124	96	77	0	0	7	1	0	0
NE LINCOLN	35	17	45	7	26	-3	0	-.1	0	.2	100	34.4	155	83	44	0	0	7	0	0	0
NE NORFOLK	32	15	41	4	23	-3	T	-.2	T	.1	25	36.3	138	76	44	0	0	7	0	0	0
NE NORTH PLATTE	37	15	50	7	26	-2	T	-.1	T	0	0	29.3	127	89	57	0	0	7	2	0	0
NE OMAHA	31	15	40	4	23	-5	T	-.2	T	.4	100	18.9	99	81	44	0	0	7	0	0	0
NE SCOTTSDUFF	34	19	48	14	26	-3	T	-.1	T	0	0	32.7	116	83	56	0	0	7	1	0	0
NE VALENTINE	30	8	44	-11	19	-7	T	-.1	T	0	0	21.2	156	90	57	0	0	7	0	0	0
NV ELY	39	13	49	8	26	-1	.1	-.1	T	.8	160	15.3	189	90	61	0	0	7	2	0	0
NV LAS VEGAS	55	40	61	36	48	1	.4	-.3	.3	1.0	333	3.7	90	86	43	0	0	0	2	0	0
NV RENO	43	20	51	17	31	-3	T	-.2	T	.7	175	10.0	159	95	49	0	0	7	1	0	0
NH WINNEMUCCA	41	18	49	14	29	-2	T	-.2	T	1.3	260	8.6	109	85	51	0	0	7	1	0	0
NJ CONCORD	42	23	63	-3	33	5	.1	-.7	.1	.5	29	33.9	101	86	45	0	0	5	2	0	0
NJ ATLANTIC CITY	52	32	73	8	42	5	.7	-.3	.5	3.1	155	31.2	74	95	56	0	0	4	2	1	0
NM ALBUQUERQUE	45	29	53	24	37	0	.3	-.2	.3	.4	200	6.9	91	89	53	0	0	6	2	0	0
NM CLOVIS	39	27	57	24	33	-7	.7	-.2	.2	.4	133	15.5	91	97	73	0	0	6	4	0	0
NY ROSWELL	43	28	60	26	35	-5	.4	-.2	.2	.4	133	15.5	91	97	73	0	0	6	2	0	0
NY ALBANY	43	22	63	0	33	4	.3	-.4	.3	.6	43	31.0	101	90	44	0	0	5	3	0	0
NY BINGHAMTON	44	23	65	1	34	6	.1	-.5	.1	.5	38	33.4	96	88	55	0	0	5	4	0	0
NY BUFFALO	44	25	67	7	35	4	.6	-.2	.2	1.2	75	38.6	116	87	53	0	0	5	5	0	0
NY NEW YORK	49	37	64	16	43	5	.2	-.7	.1	1.5	83	33.1	86	83	46	0	0	3	2	0	0
NY ROCHESTER	45	24	68	6	35	4	.4	-.2	.2	1.0	77	30.3	102	80	55	0	0	4	3	0	0
NY SYRACUSE	47	21	67	-1	34	4	.3	-.5	.1	.9	56	33.0	97	92	56	0	0	5	4	0	0
NC ASHEVILLE	54	34	63	26	44	4	2.2	1.4	1.1	4.1	273	50.2	120	93	56	0	0	4	3	2	2
NC CHARLOTTE	56	38	72	27	47	6	1.2	.5	1.3	2.9	193	39.9	102	92	59	0	0	1	3	2	1
NC GREENSBORO	57	42	73	31	49	6	2.0	1.3	1.0	2.3	164	43.3	113	91	57	0	0	3	3	1	1
NC HATTERAS	65	50	77	39	57	8	1.0	.1	.8	1.2	57	53.3	103	94	64	0	0	0	2	1	1
NC NEW BERN	63	44	75	32	54	6	1.0	.2	.8	1.2	75	42.4	81	94	62	0	0	1	3	1	1
NC RALEIGH	59	38	76	26	49	6	1.1	.4	1.0	2.1	150	41.9	105	94	53	0	0	3	3	1	1
NC WILMINGTON	67	45	77	30	56	8	2.4	1.6	1.6	2.5	156	53.4	104	86	49	0	0	3	3	1	1
ND FARGO	26	8	36	-2	17	-2	T	-.1	T	.3	150	18.0	116	91	56	0	0	7	0	0	0
ND GRAND FORKS	24	7	37	-3	16	1	T	-.1	T	0	0	20.0	106	82	52	0	0	7	0	0	0
ND WILLISTON	21	-10	35	-25	6	-12	T	-.1	T	.9	450	16.6	119	83	60	0	0	7	0	0	0
OH AKRON-CANTON	45	29	66	17	37	6	.7	-.2	.4	1.6	160	31.9	97	81	54	0	0	5	4	0	0
OH CINCINNATI	49	31	67	22	40	4	.2	-.4	.1	1.4	108	41.5	114	80	51	0	0	5	3	0	0
OH CLEVELAND	45	29	67	17	37	5	.6	-.1	.3	1.4	127	33.9	104	77	50	0	0	6	6	0	0
OH COLUMBUS	45	28	65	20	37	4	.5	-.1	.2	1.5	125	35.9	103	92	58	0	0	6	4	0	0

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

Weather Data for the Week Ending Dec. 11, 1982

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. 28	PCT. NORMAL SINCE Nov. 28	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
DAYTON	44	27	63	17	35	3	.4	-.2	.2	1.1	92	39.5	120	88	56	0	6	3	0
TOLEDO	42	26	63	12	34	4	.2	.4	.1	1.3	118	28.6	97	93	59	0	5	2	0
YOUNGSTOWN	46	28	67	10	37	6	.7	.2	.3	1.7	142	31.6	89	82	56	0	5	5	0
OKLAHOMA CITY	50	32	63	21	41	-1	.3	0	.2	.5	83	34.7	117	94	58	0	4	4	0
OKLAHOMA	48	33	60	21	40	-1	.5	.1	.4	1.5	188	33.4	96	87	59	0	4	4	0
OR ASTORIA	50	36	54	31	43	-1	.1	2.3	.1	7.8	159	67.7	117	75	51	0	1	1	0
BURNS	37	17	40	11	27	-2	.2	-.2	.1	.7	88	10.7	102	--	--	0	7	2	0
MEDFORD	49	30	53	24	40	1	.2	.7	.2	1.6	94	14.4	79	98	64	0	5	2	0
PENDLETON	31	27	41	24	29	-8	.4	.1	.2	1.0	167	11.5	105	92	80	0	6	2	0
PORTLAND	46	35	49	30	40	-2	.4	1.0	.4	3.4	121	37.3	115	83	54	0	3	2	0
SALEM	46	31	51	23	38	-4	.6	1.0	.5	4.3	139	34.0	94	87	57	0	5	2	1
PA ALLENTOWN	49	32	67	10	40	8	T	-.8	T	1.3	81	42.3	107	82	47	0	3	1	0
ERIE	45	29	68	14	37	6	.4	-.3	.2	1.0	67	39.0	110	81	53	0	4	4	0
HARRISBURG	52	34	70	17	43	9	T	-.7	T	.4	27	37.9	100	81	47	0	4	1	0
PHILADELPHIA	51	34	70	16	42	5	.1	-.7	T	1.8	113	39.2	107	90	48	0	3	2	0
PITTSBURGH	46	26	68	13	36	4	.5	-.1	.2	1.2	109	29.8	89	81	48	0	6	5	0
SCRANTON	47	29	65	7	38	7	.1	-.5	.1	.5	38	34.2	105	76	51	0	4	2	0
RI PROVIDENCE	48	32	65	10	40	7	.3	-.7	.3	1.3	62	48.0	123	85	44	0	2	2	0
SC CHARLESTON	67	55	76	43	61	10	.7	0	.5	1.0	77	43.5	89	87	61	0	0	4	1
COLUMBIA	61	45	77	38	53	6	1.5	.7	1.3	2.4	171	48.2	111	88	52	0	0	2	1
FLORENCE	63	45	75	35	54	6	1.0	.4	.9	1.3	108	37.4	91	96	59	0	0	3	1
GREENVILLE	58	42	69	34	50	6	2.6	1.6	1.8	5.4	284	54.5	123	83	52	0	0	3	2
SD ABERDEEN	28	11	37	-2	20	0	T	.1	T	.1	33	--	--	78	48	0	7	0	0
HURON	30	11	38	-1	21	-1	T	-.1	T	0	0	24.7	132	91	51	0	7	0	0
RAPID CITY	30	9	43	-1	20	-9	.2	.1	.2	.3	150	25.9	157	82	55	0	7	1	0
SIoux FALLS	28	8	42	-5	18	-5	.1	-.2	T	.1	20	31.0	128	94	59	0	7	2	0
TN CHATTANOOGA	55	37	65	29	46	4	2.2	1.0	1.2	7.7	335	54.8	116	92	57	0	1	3	2
KNOXVILLE	55	37	65	31	46	3	2.0	1.0	1.0	3.8	190	52.7	124	96	65	0	2	3	2
MEMPHIS	54	38	72	30	46	2	.9	-.2	.4	5.7	259	60.8	135	93	58	0	1	3	0
NASHVILLE	52	35	66	29	44	2	.8	-.2	.5	2.8	147	45.2	108	91	63	0	2	2	1
TX ABILENE	51	34	66	28	43	-5	.7	.5	.2	1.0	250	21.1	93	94	62	0	3	4	0
AMARILLO	41	24	60	20	33	-7	.2	.1	.1	.3	100	18.0	95	88	64	0	7	4	0
AUSTIN	60	43	72	35	51	-3	.7	.1	.4	1.4	127	26.0	86	85	53	0	0	2	0
BEAUMONT	67	47	71	44	57	2	1.4	.3	1.0	2.6	118	55.0	107	91	55	0	0	2	1
BROWNSVILLE	72	52	80	45	62	-2	2.6	2.3	2.5	2.6	433	25.2	105	99	63	0	0	2	1
CORPUS CHRISTI	68	49	78	42	59	-2	.2	-.2	.2	.3	38	22.2	82	92	54	0	0	2	0
DEL RIO	61	43	71	37	52	-1	.5	.3	.2	.5	167	11.4	70	89	49	0	0	3	0
EL PASO	55	35	66	29	45	-1	.8	.7	.5	1.5	750	9.9	132	87	50	0	3	3	1
FORT WORTH	55	38	66	29	46	-3	1.2	.7	.8	1.5	167	39.5	132	89	57	0	1	3	1
GALVESTON	66	52	70	42	59	1	.4	-.4	.3	.6	35	28.2	72	94	68	0	0	2	0
HOUSTON	65	45	71	39	55	-1	.4	-.5	.2	1.9	100	39.1	88	90	55	0	0	2	0
LUBBOCK	45	28	61	24	36	-6	.8	.6	.5	1.3	433	20.5	114	91	67	0	7	4	0
MIDLAND	50	31	65	29	41	-7	.6	.5	.3	.8	400	14.1	109	91	60	0	5	4	0
SAN ANGELO	54	32	67	27	43	-7	.5	.4	.2	.7	233	18.1	106	95	61	0	4	4	0
SAN ANTONIO	62	42	73	36	52	-3	.5	-.2	.3	1.3	217	21.9	85	86	50	0	0	3	0
VICTORIA	67	48	77	40	57	0	.2	-.3	.2	.3	30	32.0	98	92	56	0	0	3	0
WACO	58	39	69	33	49	-3	.8	.4	.5	1.3	144	28.3	94	92	60	0	0	3	0
WICHITA FALLS	50	34	68	23	42	-4	.2	-.1	.1	.4	67	37.6	147	94	58	0	3	3	0
UT BLANDING	44	28	48	23	36	5	.1	-.1	.1	.8	200	14.9	130	94	71	0	6	2	0
CEDAR CITY	38	23	50	16	31	-1	.7	.4	.5	.9	180	15.5	161	81	58	0	7	2	1
SALT LAKE CITY	36	19	42	13	27	-4	.2	-.2	.2	1.5	188	22.0	157	93	65	0	7	1	0
VT BURLINGTON	42	20	63	-1	31	6	.5	-.1	.2	1.0	83	31.3	101	77	45	0	4	4	0
VA NORFOLK	59	44	78	32	52	8	1.0	.3	.7	1.7	121	46.1	110	92	52	0	1	3	1
RICHMOND	57	38	77	23	48	7	.6	-.2	.4	1.5	100	44.1	109	94	52	0	2	2	0
ROANOKE	54	34	70	19	44	6	.8	.1	.6	2.6	200	43.5	120	88	49	0	5	2	1
WA COLVILLE	31	17	37	10	24	-5	T	-.5	T	1.4	140	17.3	115	90	82	0	7	0	0
QUILLAYUTE	47	28	51	23	37	-4	.4	-.3	.3	5.3	76	99.9	109	99	69	0	7	2	0
SEATTLE-TACOMA	45	33	52	27	39	-3	.7	-.6	.4	3.8	141	35.1	103	90	61	0	2	2	0
SPOKANE	26	11	38	-2	18	-12	.2	-.3	.2	1.3	130	15.1	97	95	79	0	7	1	0
WV YAKIMA	36	19	42	12	28	-5	.3	.1	.2	.6	120	9.2	133	84	62	0	7	2	0
BECKLEY	50	32	66	20	41	7	.3	-.4	.3	1.7	113	41.2	104	86	52	0	4	2	0
CHARLESTON	54	33	75	19	43	6	.2	-.5	.2	1.9	136	41.6	109	90	50	0	5	3	0
HUNTINGTON	52	33	73	21	43	5	.4	-.3	.3	1.9	136	41.2	113	86	52	0	5	2	0
PARKERSBURG	49	32	71	20	41	4	.5	-.1	.3	1.7	142	35.1	90	98	63	0	5	4	0
WI GREEN BAY	28	15	41	4	21	-2	1.0	.7	1.0	2.1	300	28.2	111	74	54	0	6	2	1
LA CROSSE	28	13	40	2	20	-4	.7	.4	.7	1.1	220	23.4	82	78	55	0	7	1	1
MADISON	29	14	42	-1	22	-2	1.2	.9	1.1	3.2	457	30.8	107	90	66	0	7	2	1
MILWAUKEE	34	22	52	10	28	2	.9	.5	.8	3.7	463	36.2	131	83	58	0	6	3	1
WAUSAU	24	9	38	-2	17	-4	.7	.5	.7	1.0	200	37.8	124	85	57	0	7	1	1
WY CASPER	27	4	38	-10	15	-12	.4	-.2	.2	2.0	667	18.8	176	93	69	0	7	3	0
CHEYENNE	34	16	51	8	25	-5	.1	0	.1	.4	200	18.9	136	95	61	0	7	2	0
LANDER	21	3	43	-7	12	-13	.1	0	.1	1.0	500	12.6	96	88	58	0	7	3	0
SHERIDAN	24	2	41	-13	13	-14	.2	0	.2	.5	125	13.9	90	87	55	0	7	1	0
PR SAN JUAN	84	71	85	70	78	1	.2	-.9	.1	2.5	109	41.1	74	84	54	0	0	4	0

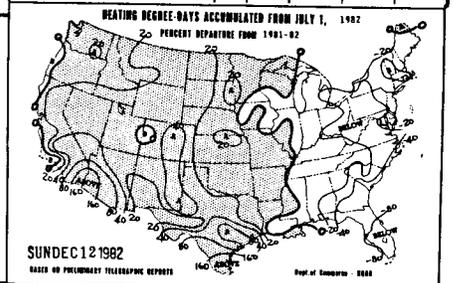
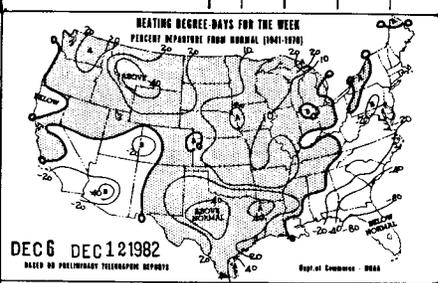
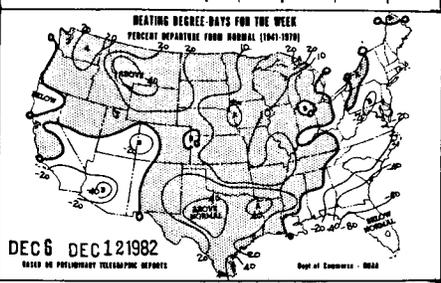
BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

HEATING DEGREE DAYS (BASE 65°) FOR WEEK ENDING DEC. 12, 1982.

BASED ON 1941-70 NORMALS.

+ACCUMULATION FROM JULY 1, 1982

Table with columns for STATES AND STATIONS, WEEKLY DEPARTURE, SEASONAL ACCUMULATION, and DEPARTURE FROM 1981-82. It lists data for various states including ALA., ARIZ., CALIF., COLO., CONN., DEL., D.C., FLA., GA., IDAHO, ILL., IOWA, KANS., KY., LA., MAINE, MASS., 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, VA., WASH., W.VA., WIS., and WYO.



## National Agricultural Summary

December 6-12, 1982

**HIGHLIGHTS...**Winter wheat on the Great Plains received rainfall, but more is needed for optimum development. Although helping small grains, precipitation delayed harvesting of cotton, vegetables, and fruits. Soybean harvest across the South was halted by wetness. Soil moisture was adequate to surplus throughout most of the South following recent heavy precipitation. Flooding continued to cause damage in many areas. Fieldwork in the southern States was limited to 1 to 4 days. Winter wheat generally rated fair to mostly good. Cotton harvest moved slowly toward completion--rain delayed picking in remaining fields. In the 14 major States, 82% of the acreage was harvested, only 4 points behind average. Livestock was in fair to good condition and supplemental feeding increased.

**SMALL GRAINS...**Winter wheat seeding continued in the Southeast as weather permitted. Precipitation over the Great Plains benefited the crop, but more is needed for good growth and development. Conditions were reported as fair to mostly good. The Kansas winter wheat condition improved due to precipitation during the week. However, additional moisture is required, particularly in western areas. Cold weather retarded activity and damage from greenbugs. The Montana crop rated good with wind damage reported light. Snow cover was poor to fair. The Oklahoma crop showed fair to good condition. Small grains in Texas responded to rainfall as conditions continued to improve. Some early planted fields will be replanted when conditions permit because of poor stands caused by prolonged dryness. Heavy rains uprooted some stands on the Low Plains.

**COTTON...**In the 14 major producing States, 82% of the cotton acreage had been harvested, 4 points behind both last year and average. Picking was virtually finished in all areas except the southern Plains and the Southwest. Harvest in Arizona was again delayed by wet fields. Fields in the Yuma area were very wet with standing water in some areas. Harvesting slowed in Texas when rains and cold weather interrupted operations. Sleet and light snow deteriorated the quality of some cotton on the Plains. Producers waited for drier, open weather before resuming harvest in some parts of the State.

**OTHER CROPS...**Soybean combining centered in the Southeast where growers tried to harvest the remaining fields of double-cropped soybeans. However, progress was slow due to wetness.

Corn harvest neared completion. Only a few fields remained for harvest, except in northern areas where more fields than usual were still standing. Farmers waited for a hard freeze before entering the remaining fields.

The sugarcane harvest was very active in Florida and Louisiana. Harvesting in Louisiana reached 83% complete, only 2 points behind average.

**FRUITS AND NUTS...**Florida's citrus tree and fruit condition improved when mild temperatures and light rains prevailed. Most irrigation was stopped. Harvest accelerated for both fresh and processing markets. Citrus groves in Arizona remained in good condition. Harvesting was slowed in the latter part of the week by heavy rains. Growers picked lemons, tangerines, tangelos, and grapefruit. Producers in California pruned fruit and nut trees as weather permitted. High winds caused some avocado losses. Growers harvested tangerines, lemons, and oranges. Some producers were waiting for the size of Navel oranges to

increase before picking. The Texas citrus harvest was active, although sizes of most fruit were small.

**VEGETABLES...**Near-ideal weather with above-normal temperatures prevailed in Florida's vegetable growing areas. The favorable weather continued to advance the maturity of crops. Total shipments increased 21% from the previous week. Only cauliflower registered a decline. Rains halted Arizona's vegetable harvest. Many fields were inaccessible by the end of the week. Harvesting and other fieldwork was also delayed by rain in southern California. Scattered showers interrupted harvesting in the Lower Rio Grande Valley of Texas. Many producers expect disease and insect problems to increase following the rain. Showers also delayed harvesting in the San Antonio-Winter Garden area. Cold weather and freezing rain halted operations in the Trans-Pecos region.

**PASTURES AND LIVESTOCK...**Pastures were in fair to good condition across the southern part of the Nation. Winter ranges and pastures in Texas were greening in response to recent rainfall. Irrigated wheat pastures in the Panhandle provided good grazing. Cattle remained in fair to good condition throughout the Nation. Supplemental feeding increased, especially in northern areas to help combat coldness.

## December Crop Production Highlights

**ALL COTTON** production forecast at 12.1 million bales, 23 percent below 1981, up 1 percent from November 1 forecast. The 90 percent confidence interval for this forecast is 11.8 to 12.4 million bales.

**DRY EDIBLE BEAN** production forecast at 24.3 million hundredweight (1.10 million metric tons), down 25 percent from 1981, 8 percent below 1980.

**BURLEY TOBACCO** production forecast at a record high 789 million pounds (358 thousand metric tons), 8 percent above 1981.

**CITRUS** production forecast at 14.0 million tons (12.7 million metric tons), 17 percent above last season.

**ORANGE** production forecast at 224 million boxes (8.63 million metric tons), 26 percent above last season but 9 percent below 1980-81.

**GRAPEFRUIT** production, excluding California "other areas" crop, forecast at 64.3 million boxes (2.38 million metric tons), 5 percent less than last season but fractionally higher than 1980-81.

### CROP PROGRESS FOR WEEK ENDING DEC 12, 1982

#### COTTON % HARVESTED

	1982	1981	AVG.		1982	1981	AVG.
ALA	100	100	100	N MEX	90	85	75
ARIZ	75	91	86	N C	94	98	96
ARK	95	100	96	OKLA	35	45	65
CALIF	95	96	96	S C	98	99	97
GA	96	97	96	TENN	100	98	96
LA	96	99	99	TEX	75	79	79
MISS	96	100	99				
MO	100	99	100	14 STATES	82	86	86

THESE 14 STATES PRODUCED 99% OF THE 1981 COTTON CROP.

## State Summaries of Weather and Agriculture

**ALABAMA:** Temperatures averaged near normal. Rainfall 2.00 in. or greater at most stations, with some light snow north.

Fieldwork: 2.5 days. Soil moisture adequate to surplus. Soybeans harvested 95%. Wheat seeded 93%, 96% 1981. Conditions: Livestock, pastures, and wheat fair to good.

**ARIZONA:** Fifth consecutive week a major storm produced heavy precipitation. Snow level 7,000 feet beginning of the storm, later lowered to 6,000 feet. Snowfall over Mogollon Rim, White Mountains varied 2 to 8 in. Heaviest precipitation in southern half State, amounts between 1 and 2 in. Amounts northern half State between 0.50 and 1.25 in. Average temperatures varied 2° below normal to 5° above.

Cotton 75% harvested once, behind last year's 91%, average of 86%. Cotton harvest delayed until fields dry enough to continue harvest activities. Fields in Yuma area very wet, water standing. Rains continued to loosen cotton, could increase ground loss. Planting barley, wheat delayed due to recent rains. Central, southeastern counties all stages planting. Yuma County reported rains benefited emerging plants, but new plantings delayed. Guar, sorghum harvest postponed. Alfalfa haying slowed. Rains slowed, finally stopped vegetable harvest activities. Yuma reported lettuce, cauliflower harvests active early week, gradually slowing 8th, completely stopping 9th. Lettuce harvest declined Parker-Poston area. Limited harvest Maricopa County included broccoli, cauliflower, green onions, mixed vegetable. Fields inaccessible at end of week. Citrus harvest hampered latter part of week. Lemon, tangerine types harvested until heavy rains. The harvest of tangerines expected to increase in volume for Christmas season. Grapefruit, tangelos picked on limited scale. Citrus groves in good condition.

**ARKANSAS:** Widespread rain covered the State at the end of the week. Much colder weather caused temperatures to average below normal. Highest temperature 65°, lowest 12°. All departures from normal ranged from -1 to -5°. Most rainfall 2.50 in., least 0.11 in.

Many rivers still above flood stage but waters slowly receding. Undamaged winter wheat in fair to good condition. Condition of flooded wheat still unknown. Pastures good condition. Cattle fair to good.

**CALIFORNIA:** A strong and cold upper level disturbance moved south over the State and stalled off the southern coast. Very cold air and very large pressure differences sent strong gusty winds over the South Coast. Mean temperatures again were almost uniformly below normal, although each district had a few above normal values. Precipitation was mainly at either extreme end of the State with the southern part the wettest.

Most field activities were resuming ground conditions improving. Cotton harvest 95% complete, 96% last year, 96% average. Oat, barley, and winter wheat showing good progress with adequate moisture. Grain sorghum and corn harvests resumed slowly. Cutting of alfalfa hay limited. Some residue shredding and discing. Pruning of Central Valley fruits and nuts as weather permits. Avocados five weeks into new season, volume still low; 8 to 12% lost to high winds of last two weeks, crop still big. Tangerines (Satsuma Mandarins, Minneola Tangelos, Orlando Tangerines) being emphasized for holiday season. Also lemons. Central Navels waiting for sizes to increase. Rains delayed harvest, fieldwork south. Broccoli harvest moderate Central Coast, light other districts. Brussels sprouts

harvest active Central Coast. Carrot harvest moderate San Joaquin Valley, Central Coast. Cauliflower supplies continued fairly light. Celery moderate supply. Lettuce harvest delayed by rain Desert areas. Potato harvest slow Riverside. Movement storage potatoes moderate Tulelake-Butte Valley. Sweetpotato movement fairly slow. Pasture some low areas too wet to graze. Foothill range growth good. Supplemental feeding increased some areas result cool temperatures retarding grass growth. Lambing slowing Central Valley districts. Calving continues active. Sheep grazing alfalfa fields.

**COLORADO:** Week began with mild seasonal temperatures but cold Arctic air pushed southward over the plains on 7th. Cold, cloudy weather continued east of the mountains through 8th with light snow, fog, and freezing drizzle. Snowfall in the mountains ranged from a trace to 6 in. at Wolf Creek. Temperatures were below normal in east and above normal in the San Luis Valley and on the western slope.

**FLORIDA:** A series of frontal systems moved through the State during the week. The fronts weakened as they moved into warm air in the south. Strong cold front swept through the State on the 12th. During the week rains were spotty, confined primarily to south. Rains of up to 2.00 in. on the 12th over northern half of State; 0.50 to over 2.00 in. Statewide. Temperatures continued near 10° above normal until falling rapidly on the 12th.

Soil moisture conditions improved, adequate many Panhandle, northern areas from showers, additional weekend rains. Moisture supplies remain short, however, some of northern Peninsula; short over central Peninsula but mostly adequate south. Soybean, cotton harvest virtually complete. Sugar-cane harvest, grinding remain very active. Pasture conditions good to excellent most areas but poor to fair some northern localities. Growth of winter pastures especially should improve due to recent rainfall. Cattle mostly good to excellent condition. Citrus tree and fruit condition improved with mild temperatures, cloudy weather and light rains. Most irrigation discontinued. Harvest active and increasing for both fresh and processing markets. Near ideal weather with above normal temperatures continued in vegetable areas. Skies partly cloudy. Rainfall variable; light central areas, light to moderate southern areas. Favorable weather continued to advance maturity for some crops. Winds light to moderate. Total shipments increased 21% from previous week. Harvest gained cabbage, carrots, celery, Chinese cabbage, escarole, lettuce, parsley, southern peas and tomatoes. Supplies about steady snap beans, sweet corn, cucumbers, eggplant, okra, peppers, radishes and squash. Volume declined cauliflower. Limited supply of good quality fall watermelons continues available. Very light strawberry harvest underway in Hillsborough-Manatee area.

**GEORGIA:** Much warmer than normal and rather wet. Temperatures about 10° above normal. Rainfall ranged from 1.50 to 2.00 in. northwest to near 1.00 in. south and near 0.25 in. near coast. Continued wet beginning of weekend then clearing and much colder by the 13th. Rainfall averaged 1.50 to 2.00 in. with locally heavier amounts.

Soil moisture: 2% very short, 6% short, 64% adequate, 28% surplus. Three days suitable for fieldwork. Major activities: Harvesting soybeans and pecans and planting small grains. Conditions: Cotton 5% poor, 42% fair, 39% good, 14% excellent; soybeans 16% poor, 48% fair, 31%

good; pecans 9% poor, 58% fair, 31% good; wheat 28% fair, 71% good; rye 21% fair, 76% good, 2% excellent; other small grains 23% fair, 74% good, 2% excellent; pastures 8% poor, 35% fair, 57% good, cattle fair to mostly good, hogs good. Crop progress: Cotton 96% harvested, last year 97%, average 96%; soybeans 89% harvested, last year 95%, average 91%; wheat 87% planted, 91% last year, 90% average; rye 96% last year, 94% average; other small grains 94% planted, 97% last year, average 93%; pecans 86% harvested, last year 85%, and 81% average.

**HAWAII:** Fair and cool weather for all Islands. Showers light and occasional. Crop progress fair to good most growing areas. Irrigation necessary in some crop areas. Vegetables: Snap beans, leafy lettuce continues light in supply. Other generally adequate. Bananas: Supplies remain steady from salvaging orchards. Papayas: Supplies moderate. Peak harvest on Island of Hawaii. Sugar: Effects on the sugarcane crop recently hit by Hurricane Iwa expected to be minimal. Leaf stripping and cane lodging were extensive in exposed areas. The lack of heavy rain during storm kept losses to minimum. Fields expected to recover and future yields not anticipated to suffer very much reduction.

**IDAHO:** A storm system moved through early in the week with high pressure providing fair weather for the remainder of the week. Precipitation amounts ranged from 0.20 to 0.66 in. Temperatures were up to 6° below normal for the north and southeast while the southwest was near normal. The lowest temperature was -28° at Stanley while the warmest was Emmett with 66°.

Farm activities settling into their normal winter patterns. Weather permitting, some farmers still harvesting corn as it becomes dry enough to combine or pick. Potato growers keeping a sharp eye on their stored crop for any spoiling that may appear. Ranchers preparing for the upcoming calving and lambing season.

**ILLINOIS:** Temperatures 1 to 7° below normal. Precipitation was moderate with amounts ranging from 0.10 to 0.40 in. One in. of snow fell in parts of the north and central sections on the 7th and 8th.

Fall plowing virtually ended.

**INDIANA:** Muddy field conditions persisted until late in period when soils began freezing. Fieldwork also mostly confined to late in period. Activities: Finishing corn harvest, spreading lime, fertilizer, and manure, limited tilling, cutting wood, cleaning fence rows, drainage repair, farm road improvement, drying grain, maintaining equipment, planning for 1983, caring for livestock and usual chores.

**IOWA:** Cool, dry week. Temperatures averaged about 5° subnormal and precipitation was negligible after early week rain and snow. The season's first subzero readings were the 9th. Cresco measured -8°F, and Mason City -9°.

**KANSAS:** Precipitation averaged 1.00 to 2.00 in. east, about 0.50 in. central, generally 0.10 in. west with little or none extreme west. Temperatures averaged 28° north central, 31 to 33° elsewhere, 1° above normal northwest, 2 to 5° below normal elsewhere.

Precipitation received during week improved wheat condition but more moisture needed, particularly in west. Greenbugs still pose threat to scattered fields of wheat in eastern and central counties but recent cold weather has retarded activity and damage. Cattle grazing sorghum stubble or grass receiving supplemental feed. Supplies of feed grains and roughage adequate to surplus.

**KENTUCKY:** Mild and damp early in week, but colder middle of week. Weekend, moderate to locally heavy snows reported southeast. Temperatures 5 to 10° below normal for end of week. Precipitation amounts 0.50 in. or less except southeast, 0.50 to 1.00 in.

Approximately 60% of burley sold. Price around \$182 per cwt. Supplemental feeding increasing as pastures run out.

**LOUISIANA:** Rainfall averaged 0.50 to 2.10 in. Temperatures ranged 46 to 59°.

Soil moisture adequate to surplus. Very little progress with harvest. Days suitable: 2.6. Cotton harvested 96%, 99% 1981, 99% average. Soybeans harvested 94%, 99% 1981, 99% average. Sugarcane harvested 83%, 84% 1981, 85% average. Wheat seeded 85%, 94% 1981, 98% average. Wheat emerged 78%, 84% 1981. Pecans harvested 70%, 80% 1981, 86% average. Vegetables rated fair to good. Spraying strawberries and harvesting cabbage. Pasture and livestock rated fair to good.

**MARYLAND AND DELAWARE:** Temperatures averaged 11° above normal with the warmest departures from normal in western Maryland and the Lower Eastern Shore. Precipitation ranged from zero to a trace west of the bay to 1.09 in. in Georgetown. On the 11th rain with less than 0.10 in. west to around 1.00 in. in the central Eastern Shore and southern Delaware areas. The 12th was wet and with snow throughout Maryland and Delaware. Snow fall ranged from 1 in. in western Maryland to 6 in. on the Lower Eastern Shore.

Unusually warm dry weather enables farmers to concentrate on soybean harvest and tobacco stripping.

**MICHIGAN:** Old Man Winter spicy grip has taken hold again. Below normal average temperatures were reported. The Upper Peninsula was the coldest area with temperatures 8° below normal. Across the Lower Peninsula temperatures ranged from 5° below normal in the north to 3° below normal in the south. Moderate to heavy amounts of snow fell over the Upper Peninsula. Light amounts of snow fell over the Lower Peninsula.

**MINNESOTA:** Another cool, dry week. Temperatures averaged 15 to 20° in the south to about 5 to 10° in the north. Warmest temperature reported was 40° at Winona and Mankato. The coolest was -14° at Warroad. Precipitation continued a four week trend of below normal. Amounts light and spotty, amounting to 0.05 in. or less for most parts of State.

**MISSISSIPPI:** Above normal precipitation continued with some taking the form of sleet and snow late in the week. Flooding remained a problem. Average temperatures departed from normal with the coast 7° above normal and the rest of the State 4° below normal. Extremes: 79 and 23°. Greatest 24-hour rainfall 2.42 in.

Soil moisture surplus to excessive. Fieldwork: 1.4 days suitable. Cotton 96% harvested, 100% last year, 99% average. Soybeans 91% harvested, 100% last year, 97% average. Winter wheat 90% seeded, 98% last year; condition good to fair. Hay and roughage and grain supplies adequate. Pasture condition fair to good. Livestock condition good to fair.

**MISSOURI:** Temperatures were 3 to 5° above normal across southern areas and near normal for the rest of the State. Rainfall was generally less than 1.00 in. except in the northwest where the average was 2.00 in. Flooding continues along the Mississippi River from St. Louis south and in extreme southern areas along the St. Francis River.

No harvest progress this last week. Quality of hay crop poor.

**MONTANA:** Cold air covered State early in week and became trapped in valleys of west and southwest remainder of week. Temperatures averaged more than 1° below normal over much of these areas. Rest of State temperatures from 7 to 10° below normal. Highest 46° at Roundup, lowest -32° at West Yellowstone. Precipitation confined to west, southwest and extreme southern portions of south central and southeast. Amounts generally moderate.

Winter wheat condition good. Snowcover poor to fair. Wind damage light. Livestock 75% receiving supplemental feed, and in good condition. Grazing open to difficult.

**NEBRASKA:** Precipitation: Widely scattered, light amounts. Temperatures: 2 to 9° below normal.

**NEVADA:** Fair weather prevailed throughout week northern areas. Southern areas experienced both dry and wet weather. Precipitation last half of period south mostly in form of rain as temperatures relatively mild. Fog and haze reduced visibility many northern valleys. Temperatures averaged near normal during days. Extremes: 68 and 2°.

Cotton harvest hampered by showers end of week. Mild weather favored caring and feeding livestock. Grading and marketing potatoes continuing.

**NEW ENGLAND:** Early week was warm, but temperatures declined sharply on the 9th with lowest of -9° on the 10th at Montpelier, VT. Precipitation off and on during week. Greatest amounts at early week and week's end. Southeast blanketed with over 6 in. of snow the 11th and 12th.

**NEW JERSEY:** Temperatures well below normal, averaging 31° north, 34° south and 36° coastal areas. Extremes: -2° at Toms River and 71° at Toms River. Precipitation was below normal north and south and near normal coastal, averaging 0.06 in. north, 0.48 in. south and 0.88 in. coastal sections. The heaviest 24-hour total reported 1.05 in. on 11th to 12th at Atlantic City.

Farmers deer hunting, caring for livestock, clearing snow, pruning fruit and selling live Christmas trees.

**NEW MEXICO:** Average temperatures were below normal at most locations. Total precipitation amounts (liquid equivalents) ranged from 0.30 to 0.80 at most locations.

Soil moisture supplies mostly adequate. Farm activities were interrupted the last half of the week due to rain and snow. Harvest of cotton was slowed due to rain and snow. Grain sorghum harvest was slowed during the week leaving less than 5% of the crop to be harvested. Winter wheat and barley fields in fair to good condition. Grazing remains lighter than last year. Pecan and red chile harvest were limited due to wet fields. The fall planted onions remain in mostly good condition. Ranges in good to excellent condition. Livestock in good condition.

**NEW YORK:** Mild weather with daily highs in mid 50's and 60's dropped quickly by midweek. Weekly low: -12° at Newcomb. Other stations in single digits above and below zero. Precipitation light, all stations 0.75 in. or less. Most areas had a dusting to a few inches of snow.

**NORTH CAROLINA:** Temperatures: 4 to 7° above normal. Precipitation: Varied Statewide.

Fieldwork: 3.3 days suitable. Soil moisture: 75% adequate and 25% surplus. Conditions: Wheat, oats, barley and rye mostly good. Harvest: Cotton 94%, 1981 98%, average 96%; sorghum 99%, 1981 and average 100%; soybeans 79%, 1981 96%, average 84%. Major farm activities: Soybean and cotton harvest, seeding of small grains, land preparation, cutting of firewood and machine repair.

**NORTH DAKOTA:** Temperatures average 1 to 7° below normal. Averages ranged from 8° north central to 16° southeast. Extremes from 46° in southeast to -25° in northwest. Precipitation averaged below normal with only a trace Statewide.

A lack of snowfall allowed sunflower producers to work on the remaining harvest. However, extreme cold kept progress slow. Artificial drying still necessary. Winter wheat and rye need additional snow cover. Livestock producers benefitted from open roads but cold weather boosted feeding needs.

**OHIO:** Temperatures averaged 1 to 3° below normal. Morning lows in single digits. Precipitation widespread, but totals light. Averaging from 0.25 to 0.50 in. Showers somewhere almost every day. Snow over weekend. Four-inch bare soil temperatures dropped into 30's.

Less than normal rainfall permitted livestock to continue foraging in corn stubble. Activities included mulching strawberries, packing and distributing potatoes and dry onions and general farm maintenance.

**OKLAHOMA:** Temperatures averaged from 2° below normal central and northeast to 5° below normal Panhandle. Precipitation ranged from 0.13 in. Panhandle to 1.12 in. southeast.

Wheat condition good to fair. Cattle good to fair condition with supplemental feeding active.

**OREGON:** Rainfall 4th through 6th dropped over 2.00 in. of rain west of Cascades. Less than 0.50 in. of precipitation was recorded east of the mountains. Rest of week was dry. Temperatures near normal.

Winter wheat condition mostly good. Most fields emerged. Moisture has been good. Some spraying as conditions permit. Pruning in southern portion of State underway. Cole and root vegetables being picked in smaller amounts. Livestock condition good. Winter range and pastures good shape.

**PENNSYLVANIA:** Week began very warm with colder air surging into the State late on 6th. Remainder of week became progressively colder. Negative minimum temperatures were reported in the north central mountains. Extremes: 68° and -3°. Precipitation was generally on the light side with less than 0.50 in. A few scattered reports of 0.75 in. were reported in the Plateau Region. First major seasonal snowfall brushed the extreme southeastern corner of the State the last day of the week with amounts ranging from 3 to 7 in.

**PUERTO RICO:** Island average rainfall 0.32 in. or 0.67 in. below normal. Highest total 1.65 in. Temperatures averaged about 77 to 75° on Coasts and 74 to 68° Interior Divisions. Extremes: 90 and 55°.

**SOUTH CAROLINA:** Week began warm - turn colder early in period. Late in week an early winter storm passed through State producing 1.00 to 3.00 in. of rain followed by much colder weather.

Cotton 98% harvested, 99 last year, 97 average. Rainy, damp weather slowed soybean harvested to standstill in many areas. Cotton scragging operations also delayed. Seeding small grains continued as weather permitted.

**SOUTH DAKOTA:** Temperatures averaged 2 to 12° below normal. Extremes: 48 and -11°. Snow fell up to 5 in. in south half of State. Heaviest in southwest. Little to no precipitation in north.

**TENNESSEE:** Week began dry and cool. A midweek warm-up was followed by colder air and precipitation which spread across the State 10th and 11th. The rain changed to snow before ending on 11th and 12th. Precipitation amounts were light -

generally less than 1.00 in. Snow accumulation was restricted to east Tennessee and Cumberland Plateau. A five inch snow depth was measured at Bristol on 12th.

Cotton harvested 100%, 1981 98%, average 96%.

TEXAS: Upper air disturbance off Baja California, coupled with overrunning cold air at the surface, resulted freezing drizzle, rain and 2 to 6 in. of snow northern and western portions State. Scattered showers remainder State later week, but skies clear by 12th. Temperatures averaged 2 to 8° below normal. Precipitation above normal.

Crops: Cold, wet weather across most State brought harvesting and land preparation operations to standstill. While moisture greatly benefit most small grain stands, some unharvested cotton fields damaged by moisture. Winter pastures greening up, although grazing short some areas. Cotton harvest slow progress as rains, cold weather interrupted operations. Plains quality some stands deteriorated following recent sleet, light snow. Equipment pulled out many fields, producers waiting drier, open weather before resuming harvest. State-wide condition was 61% of normal with 2% excellent; 23% good; 58% fair; and 17% poor. Small grains continue improve as moisture supplies increase. This is first moisture many dry-planted fields received, emergence spotty many areas. Some early-planted wheat fields, which too moisture stressed, be replanted when conditions permit. Some stands Low Plains uprooted by heavy rains. Extremely wet conditions some problems for livestock producers Blacklands, cattle moved off some wheat pastures. Spraying activities greenbugs and mites increasing Central and East Texas. Wheat condition was 66% of normal with 6% excellent; 37% good; 38% fair; 17% poor; and 2% failure. This is up from last week and compares with 87% of normal last year. Wet fields delaying peanut harvest, both quality and yield should drop longer the nuts stay in the ground. Soybean harvest little progress during week; along coast, beans deteriorating some unharvested fields. East Texas high moisture content some beans delaying harvest scattered areas. Sugarcane harvest Lower Valley interrupted scatter-

ed showers. Sugarbeet harvest virtually complete High Plains.

Commercial vegetables: Lower Rio Grande Valley, fall and winter vegetables good progress. Scattered showers interrupted harvest most crops, many producers expecting disease and insect problems following recent rain. Citrus harvest active, although size of most fruit small. San Antonio-Winter Garden, low prices slowing cabbage harvest. Carrot, tomato and spinach harvest delayed recent showers. Cauliflower making good progress. Trans-Pecos, cold weather, freezing rain halted most vegetable operations. Pecan harvest short lived many areas because this year's poor crop. Hard freeze increase leaf defoliation Trans-Pecos, where quality remains good. Wet ground slowing harvest Edwards Plateau.

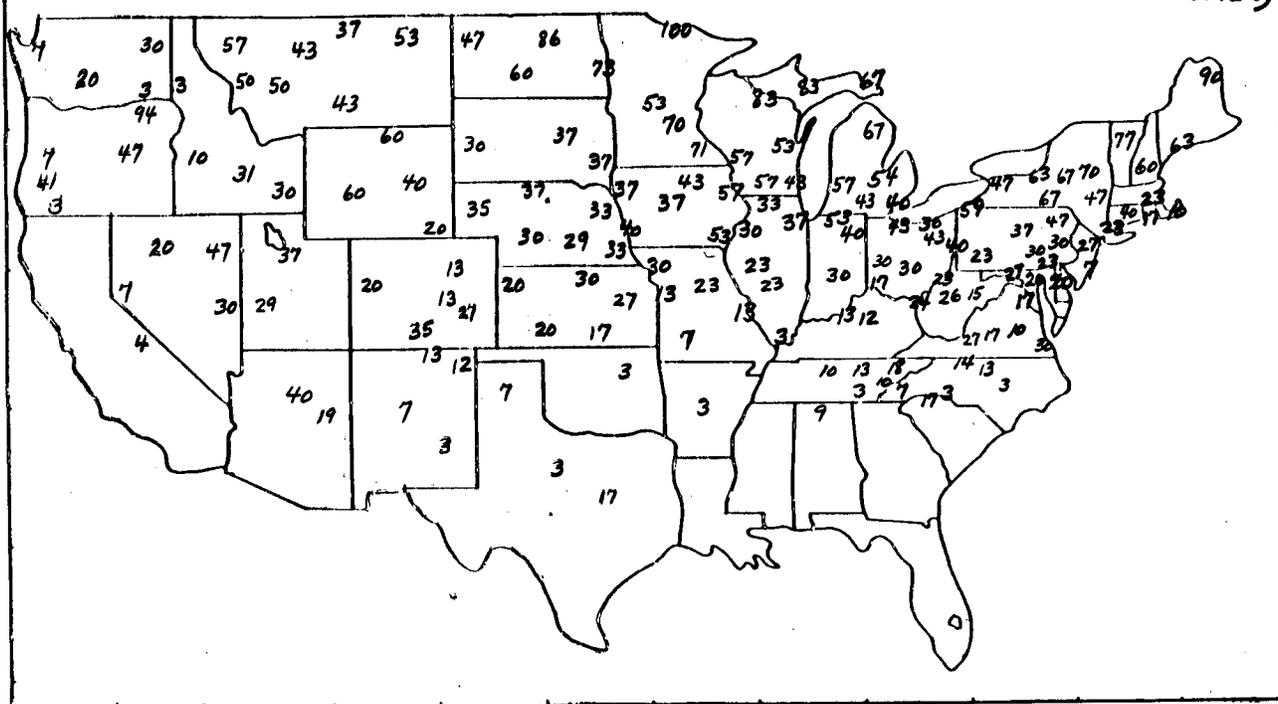
Range and pasture: Winter ranges and pastures green up following recent showers, although grasses still too short some areas. Irrigated wheat pastures Panhandle good grazing, and many producers turned cattle onto harvested sorghum and corn fields. Central and East Texas, producers moving cattle off wet wheat and oats pastures. Cattle remain fair condition, although normal shrink occurred during recent cold, wet weather. Some areas Panhandle, feedlot placements well above last year, as producers cull herds response poor grazing conditions.

Cotton harvested 75%, 79% 1981, 79% average. Wheat planted 100%, 99% 1981, 99% average. Wheat emerged 91%, 95% 1981, 92% average. Peanuts harvested 98%, 97% 1981, 97% average. Pecans harvested 81%, 67% 1981, 71% average. Soybeans harvested 97%, 95% 1981, 97% average. Sugarbeets harvested 100%, 100% 1981, 98% average. Sunflowers harvested 100%, 100% 1981, 97% average. Oats planted 97%, 98% 1981, 98% average.

UTAH: Periods of precipitation over most of State. Accumulated amount generally light to moderate. Average temperatures ranged from 9° below normal to 4° above normal.

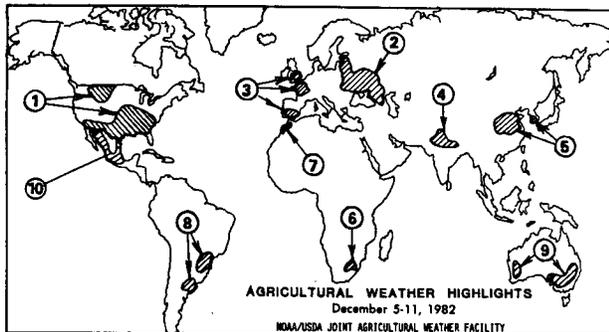
Field activity limited to morning and evening chores. Care and feeding of livestock. Sorting and marketing of onions, potatoes continues as orders arrive. (continued on p. )

CLIMATOLOGICAL PROBABILITIES (%) FOR WHITE CHRISTMAS (1 INCH OR MORE SNOW COVER)

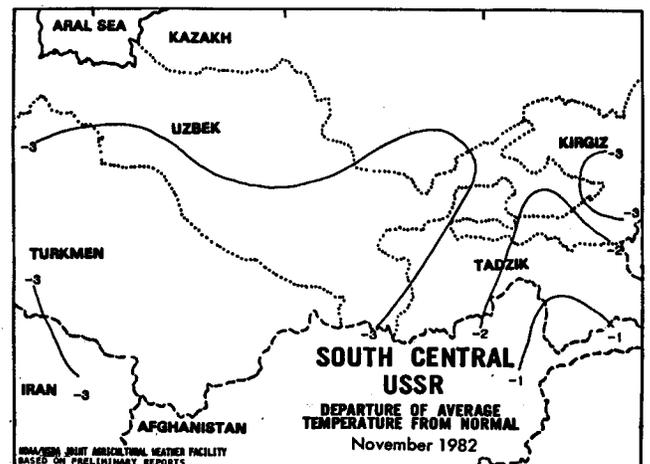
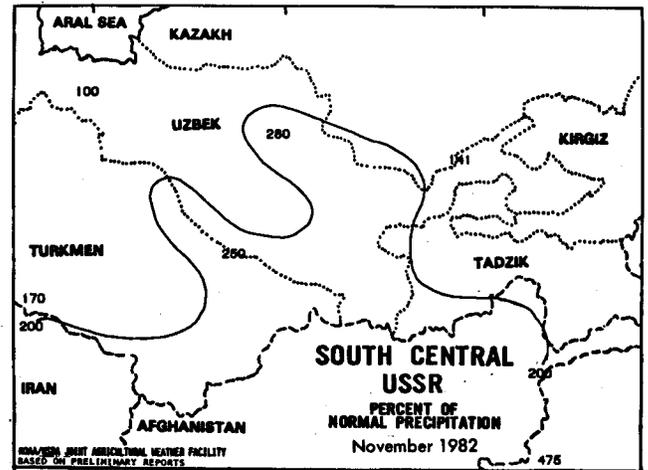
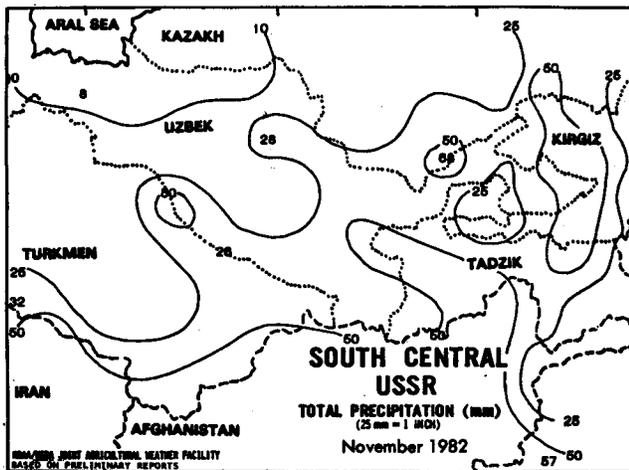


# International Weather and Crop Summary

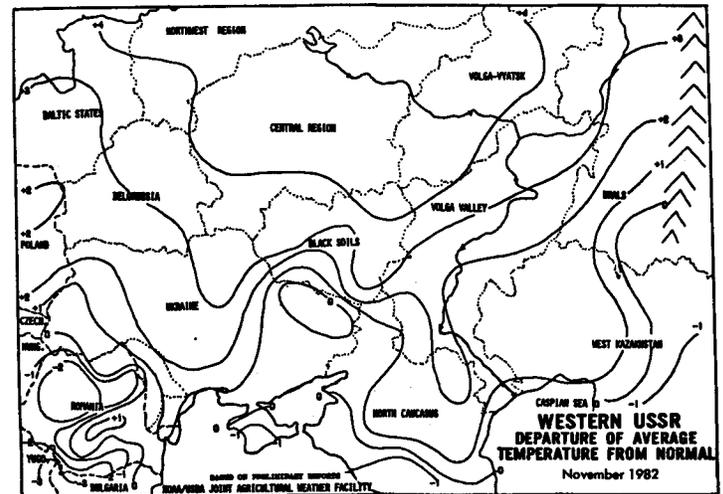
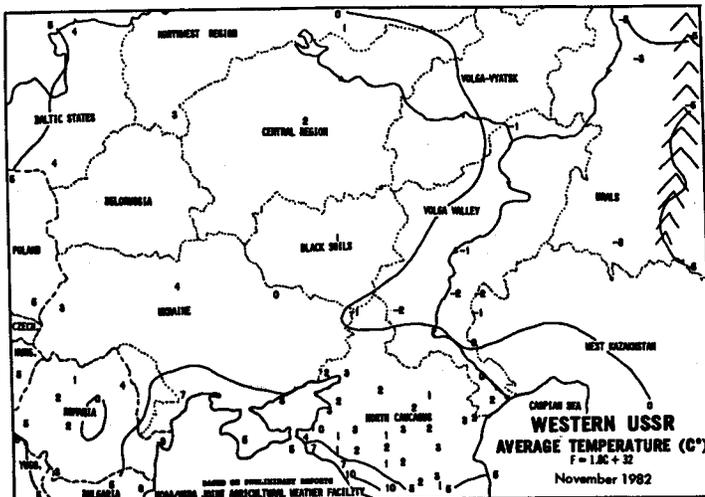
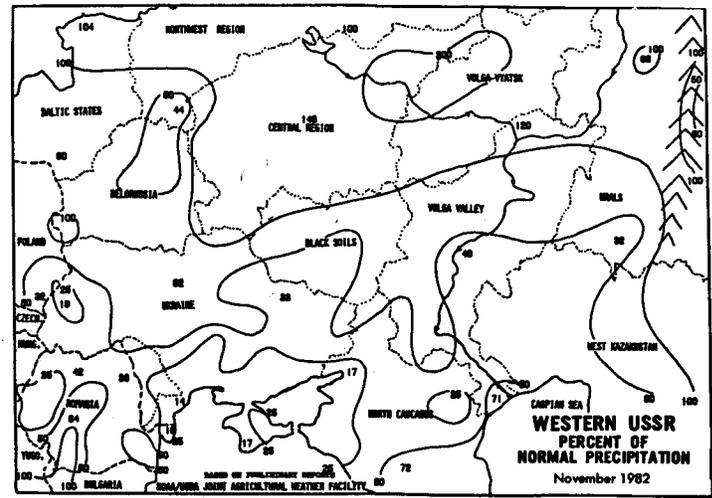
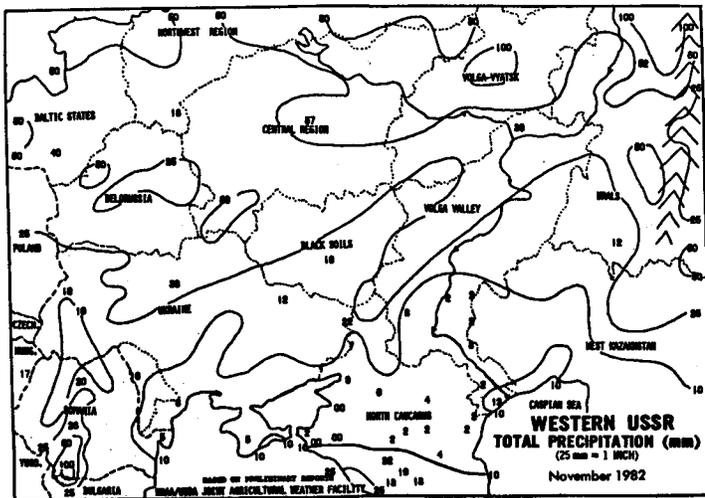
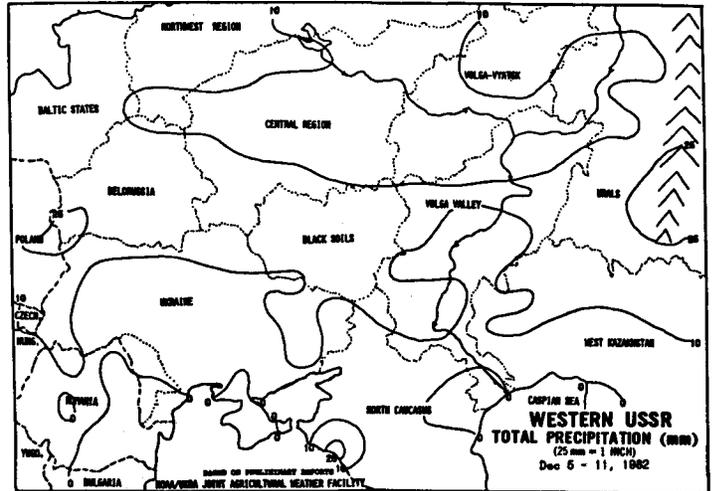
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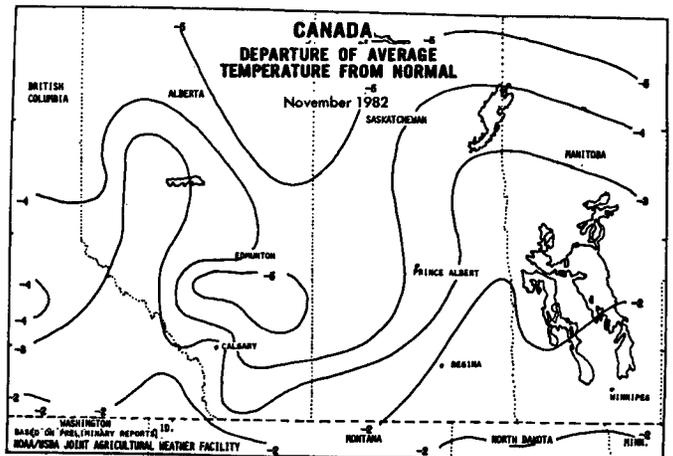
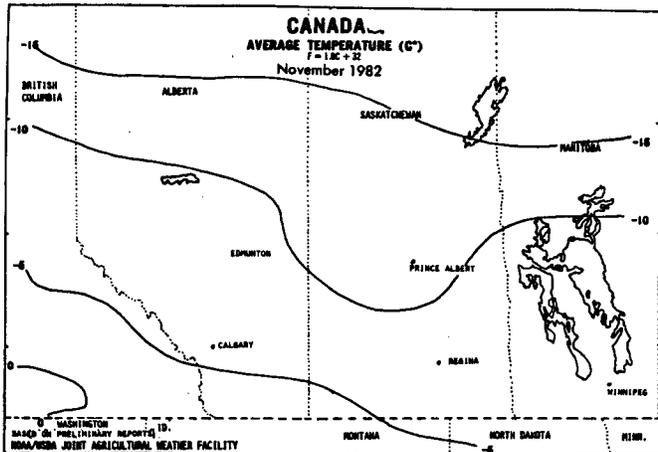
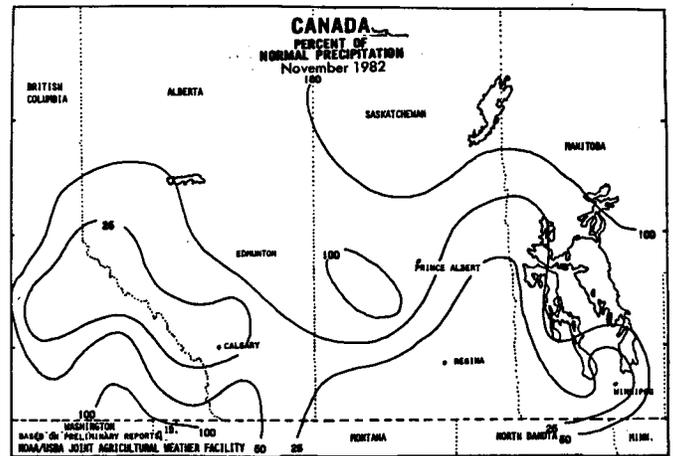
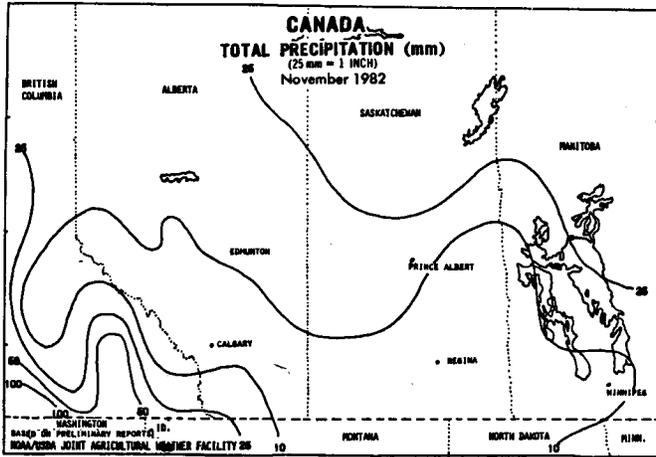
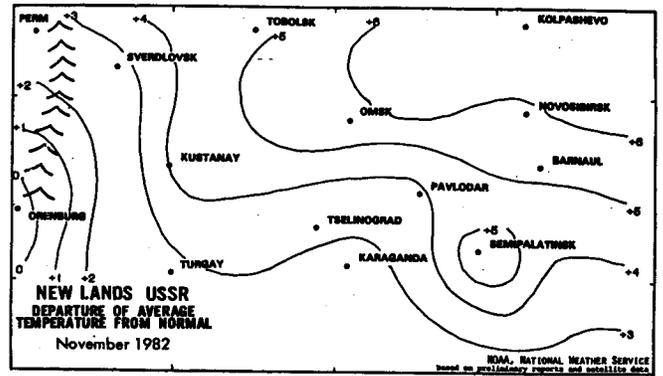
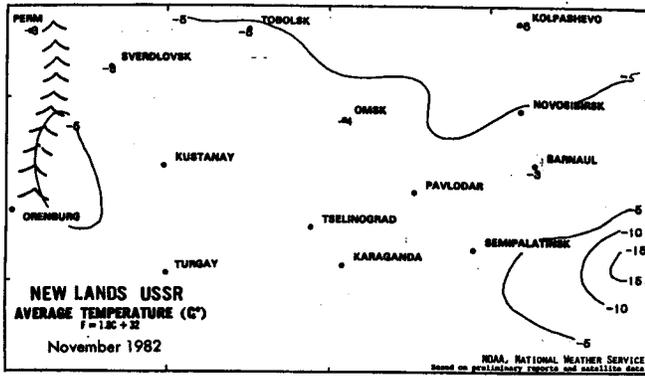
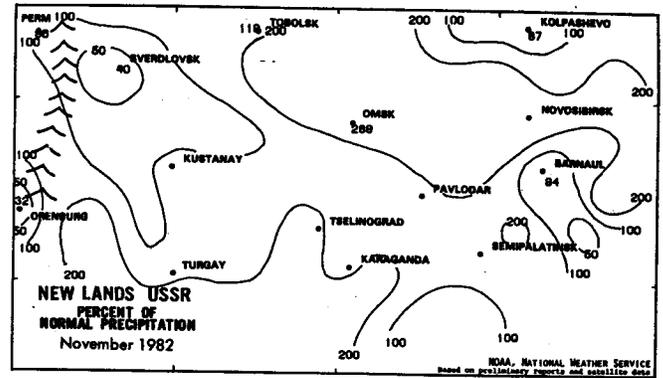
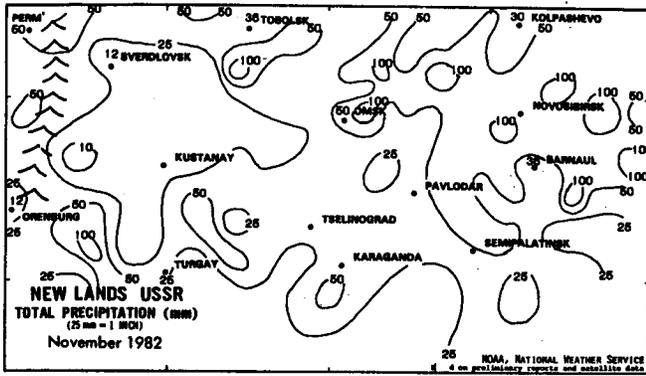


1. **UNITED STATES** ... Light precipitation over the central and southern Plains benefited wheat but delayed cotton and vegetable harvesting. Rains in the Desert Southwest also halted vegetable harvest. Continued wetness over the South prevented harvest completion of soybeans and cotton. Unseasonal cold stressed livestock in the northwestern Plains.
2. **WESTERN USSR** ... Light precipitation over much of the region; most winter grains were dormant.
3. **EUROPE** ... Wet weather returned to winter grain areas in France, England, and northern Italy; more rain is needed in southern Spain for winter grain planting.
4. **SOUTH ASIA** ... Dry weather continued to stress unirrigated winter wheat in the north but aided harvest.
5. **EASTERN ASIA** ... Mostly dry weather covered dormant winter grains in China and Korea.
6. **SOUTH AFRICA** ... Beneficial showers covered the Maize Triangle as corn entered vegetative growth period.
7. **NORTHWESTERN AFRICA** ... More rain needed in Morocco for winter grain growth.
8. **SOUTH AMERICA** ... Mostly dry weather in southern Brazil allowed resumption of rain-delayed soybean planting; generally adequate moisture for vegetative growth in Argentina, but showers slowed wheat harvest in south.
9. **AUSTRALIA** ... Dry weather in southern Australia aided wheat harvest; some showers slowed harvest in west; scattered showers in Queensland provided minimal relief for summer crops.
10. **MEXICO** ... Rains helped west coast wheat and ranges and east coast citrus and coffee.

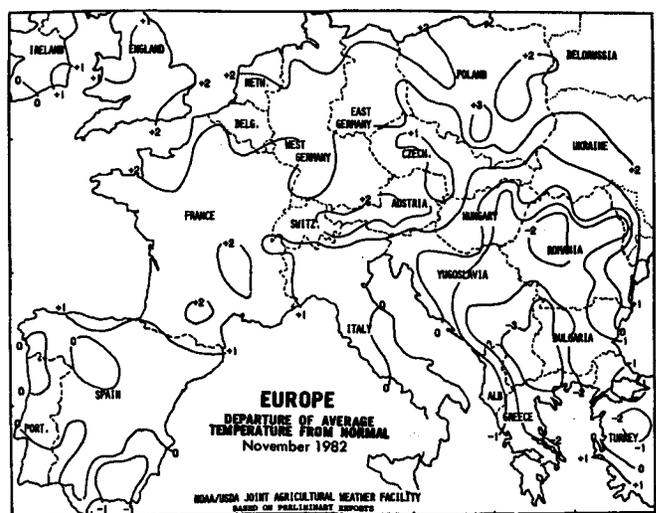
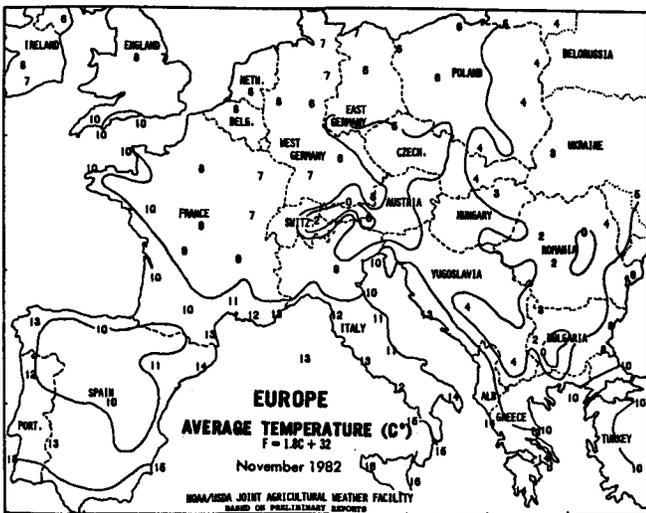
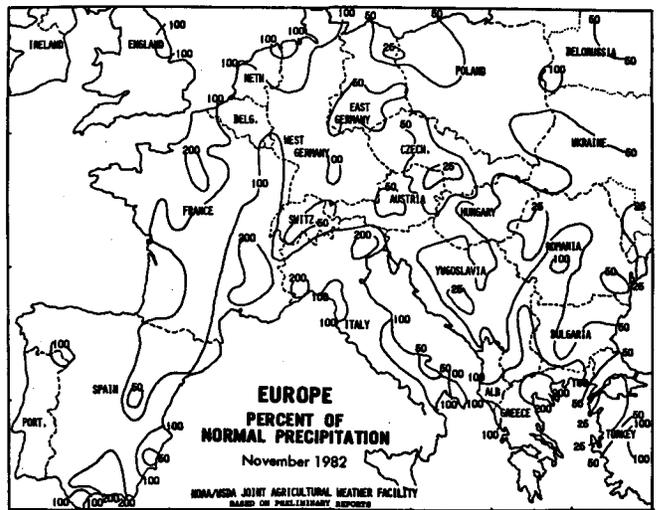
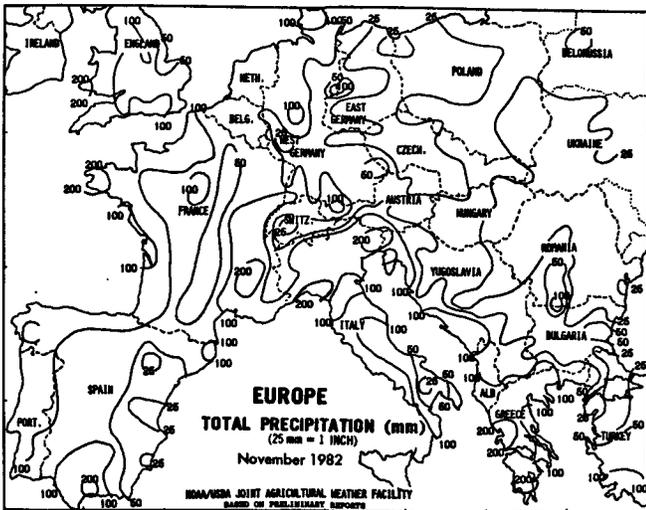
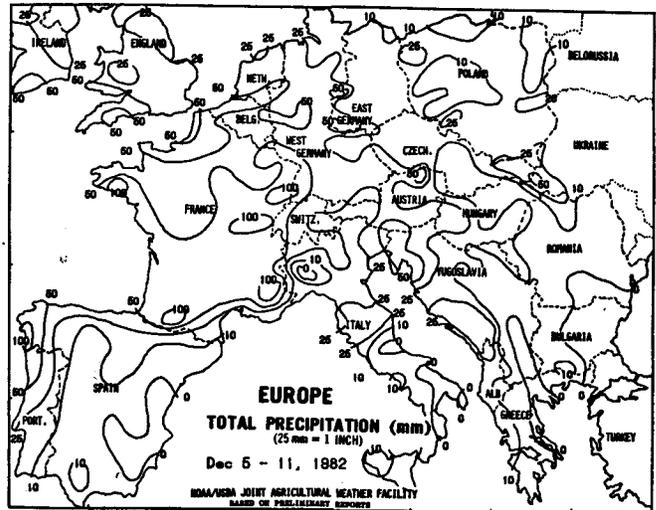


WESTERN USSR...Light precipitation covered most winter grain areas as the crop remained dormant during the week. In November, below-normal precipitation fell on Belorussia, the Ukraine, Black Soils, southern Volga Valley, and the North Caucasus. Widely fluctuating temperatures during the month limited the amount of growth that plants added before dormancy, particularly in the eastern Ukraine, southern Volga Valley, and North Caucasus. As a result of these unfavorable weather conditions, the winter grain crop in these areas is more susceptible to winterkill. In the New Lands, above-normal snowfall covered the region.

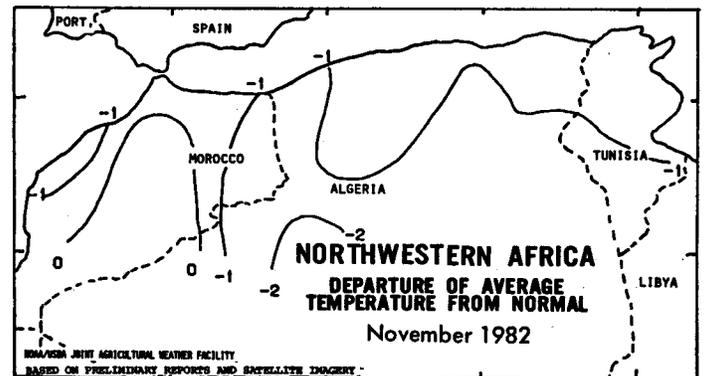
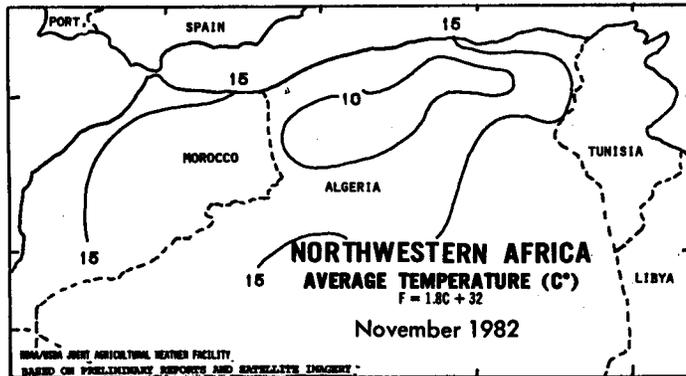
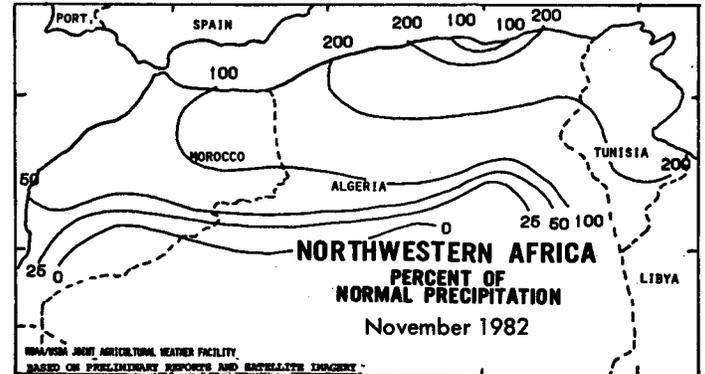
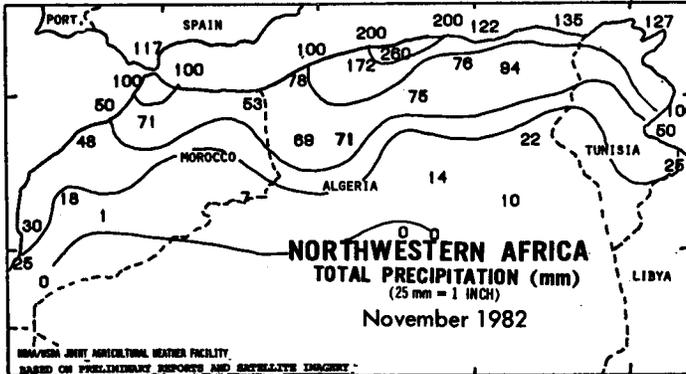
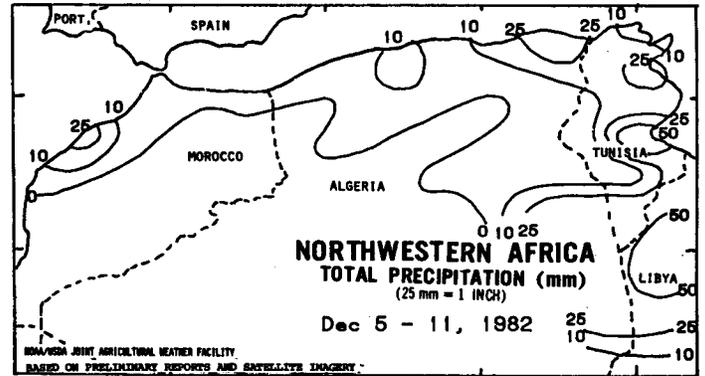




EUROPE...Wet weather returned to England, France, and northern Italy, continuing November's above-normal precipitation pattern. Light showers covered northern Spain, providing favorable topsoil moisture for emergence and early growth of winter grains. Southern Spain, however, continued generally dry, and more rain is needed for winter grain planting. In northern Europe, wet weather covered most of the region reversing November's below-normal precipitation pattern. The precipitation that fell on East Germany and Poland was especially beneficial, because these areas had received less than their normal amounts of precipitation for several months. In the southeast, generally dry weather continued November's below-normal pattern. Winter grains continued growth in France and England but were dormant in northern and southeastern Europe.



**NORTHWESTERN AFRICA...** Scattered, light showers covered winter grain areas in Morocco, Algeria, and Tunisia. In November, below-normal rainfall covered winter grains in Morocco, and additional rain is needed to ensure favorable crop prospects. In contrast, generous amounts of rain fell on Algeria and Tunisia favoring emergence and early growth of the winter grain crop. Currently, winter grain planting is well underway in all areas.



(continued from p.12)

**VIRGINIA:** A general cooling trend during the week culminated in the season's first snowstorm. Temperatures early on 6th were in the 60's--but failed to reach the freezing point on 12th in many areas. Overall--the temperature averaged slightly above normal. Precipitation was light early in the week, less than 0.25 in. Moderate to heavy precipitation fell over the weekend--from 0.50 to 1.50 in. Snowfall over all but extreme southeast portion of State was in the 4.00 to 8.00 in. range.

The rainfall during the week allowed 3.3 days to be suitable for fieldwork, an improvement over last week but still low. Topsoil moisture decreased but was still at an ample level with 1% short, 75% adequate and 24% surplus. Major activities included harvesting of soybeans and sorghum, cutting firewood, clean up and repair of equipment, fences and buildings, livestock care and marketing tobacco. Soybean harvest progressed to 91% complete compared to last year's 95% and the average of 89%. Harvest has been slowed by high moisture levels in the grain and soil. Grain sorghum 92% harvested compared to last year's 87% and the average of 85%. Even though harvest slowing down it is progressing well. Pastures and winter grains and grazing crops in excellent condition and have carried

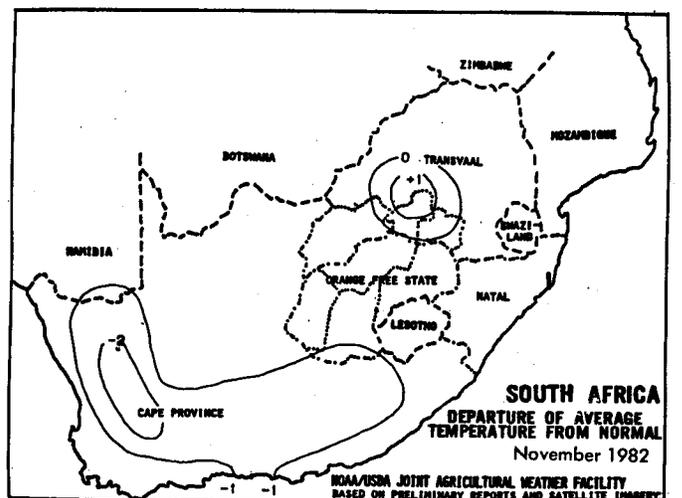
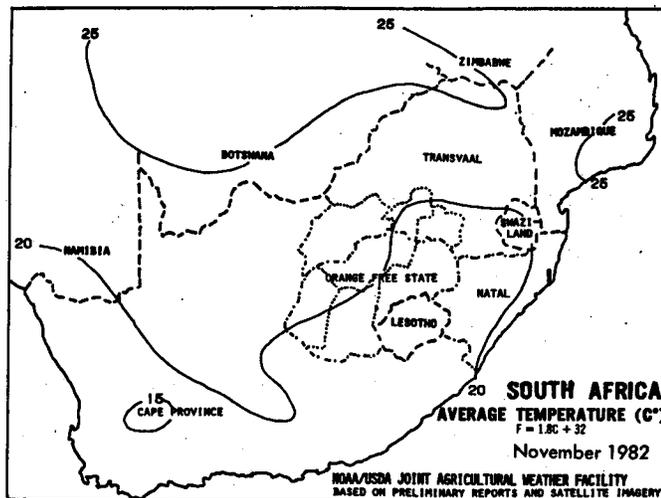
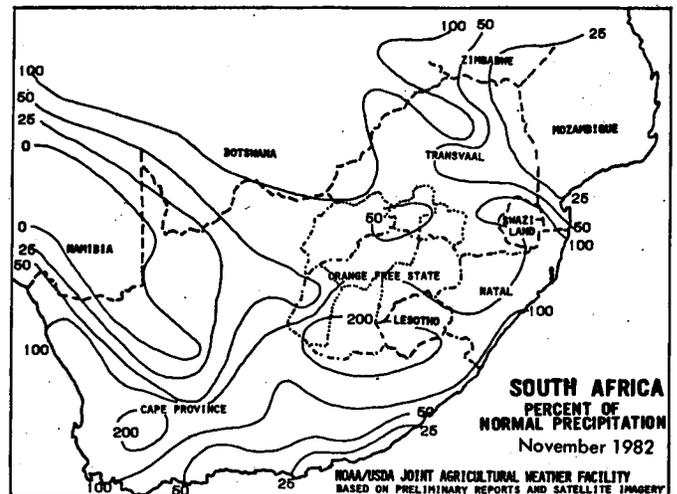
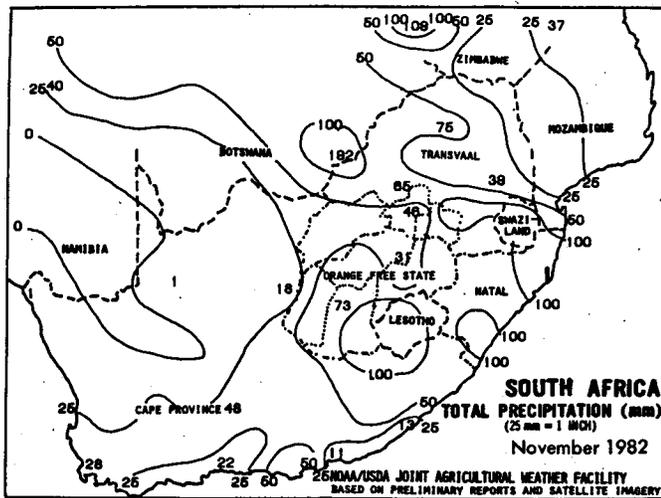
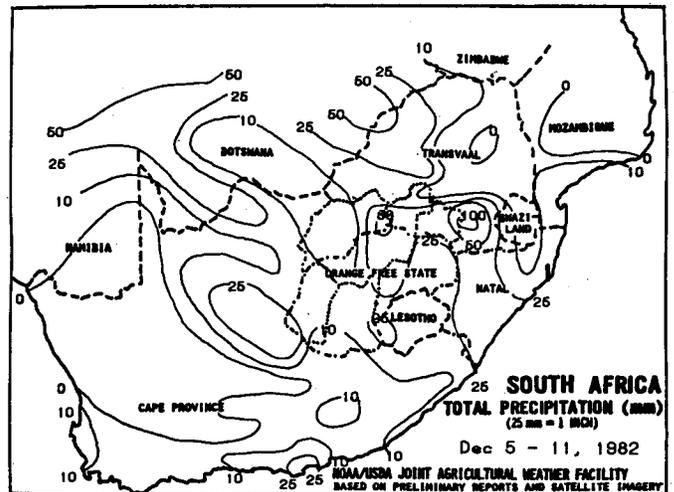
livestock for several weeks longer than normal. Cattle in good condition for the winter with early calving and lambing going very well. Supplemental feeding increasing but at a moderate rate. Other activities include record keeping, home slaughter of hogs and beef. Soil and forage testing, hunting, marketing tobacco and fumigating tobacco beds.

**WASHINGTON:** Although the week began unseasonably warm--several sites reported maximum temperatures near 60° on 4th--the pattern changed by 7th and temperatures fell significantly below the normals. Odessa reported a low of -5° on 10th, the lowest observed temperatures in the State. As a result of the two extremes, the average temperatures just slightly below seasonal normals. Most of the precipitation fell early in the week as a small low pressure system moved across the State. Air flowing around a cold Arctic high pressure system centered in western Canada brought cold, dry air by 7th.

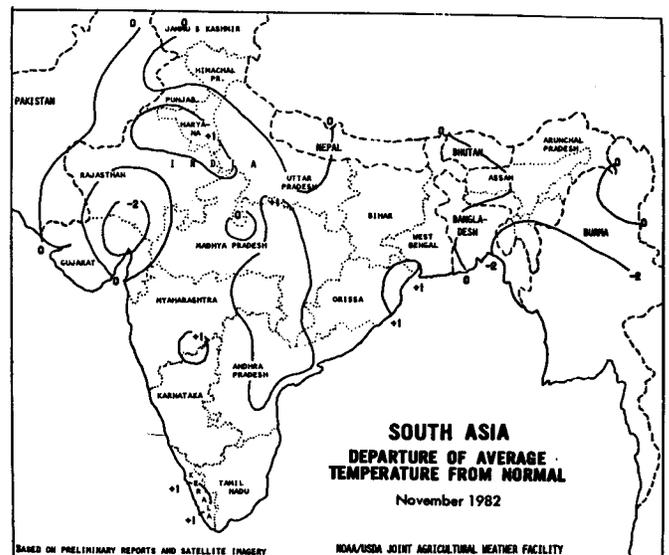
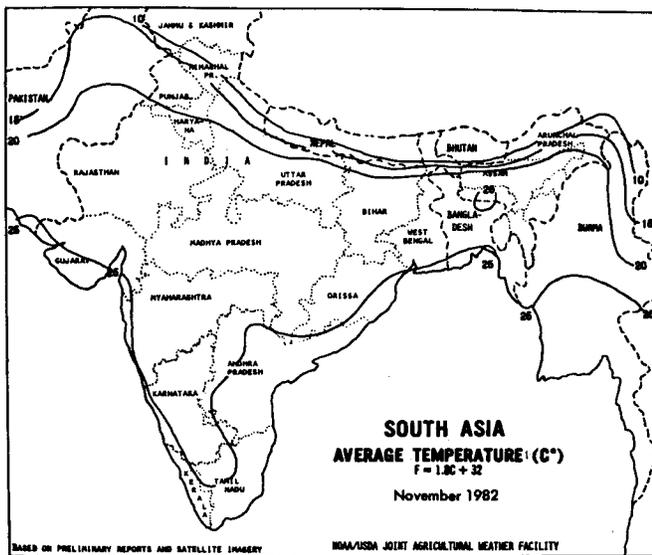
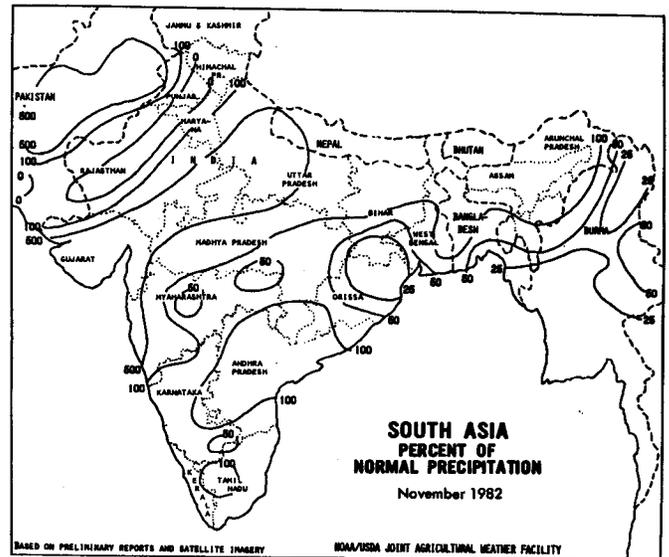
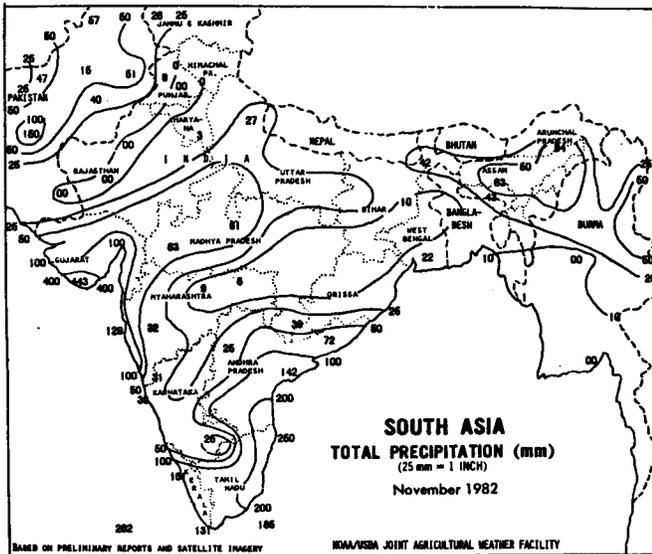
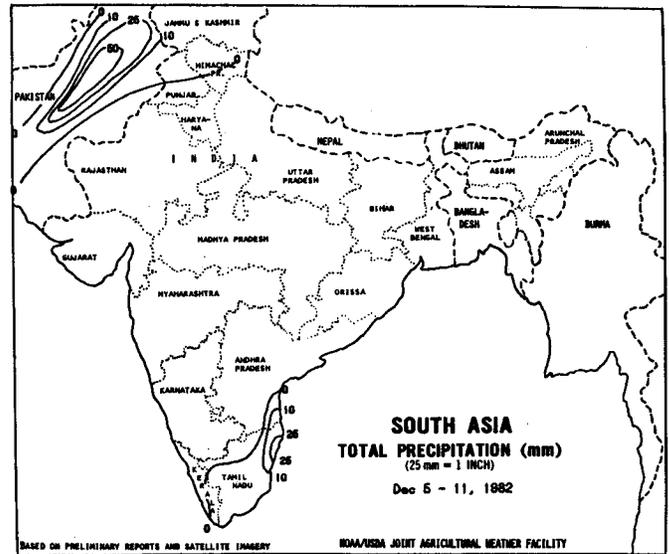
**West:** Clear, cool weather with frosty nights. Christmas tree harvest booming. A few carrots still being dug, but processing plants closing. Raspberry canning, and pruning and training of canberries still being done. Small fruit and vegetable producers doing maintenance and repair

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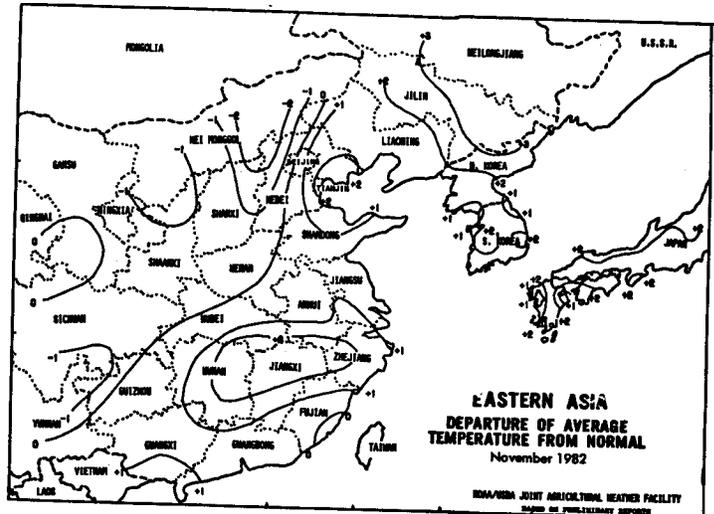
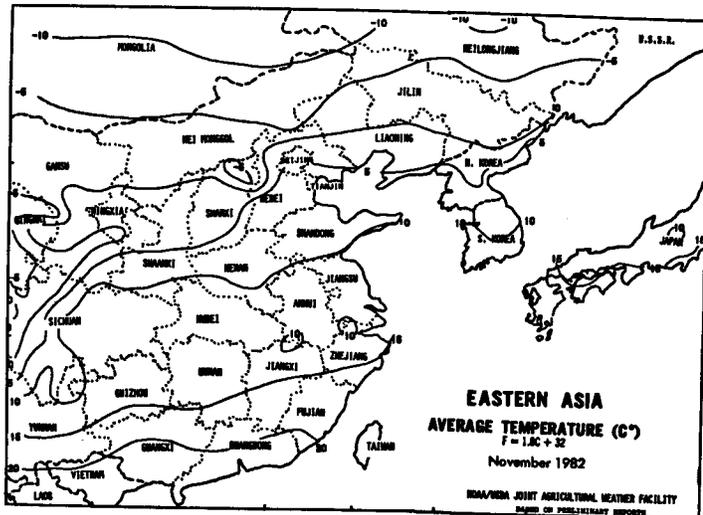
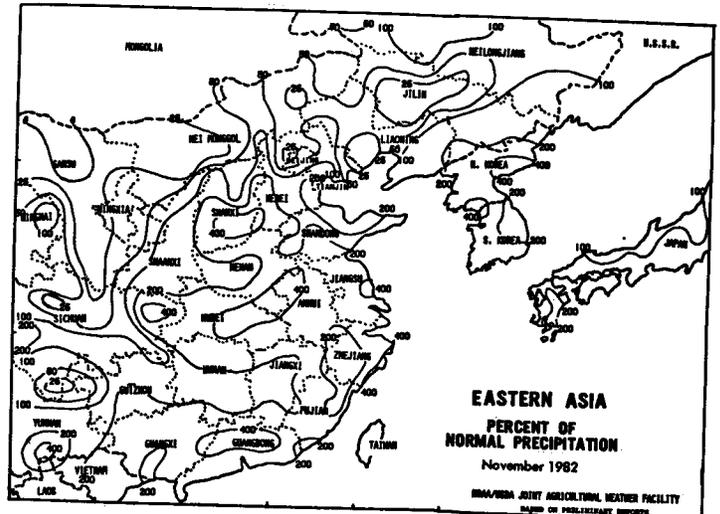
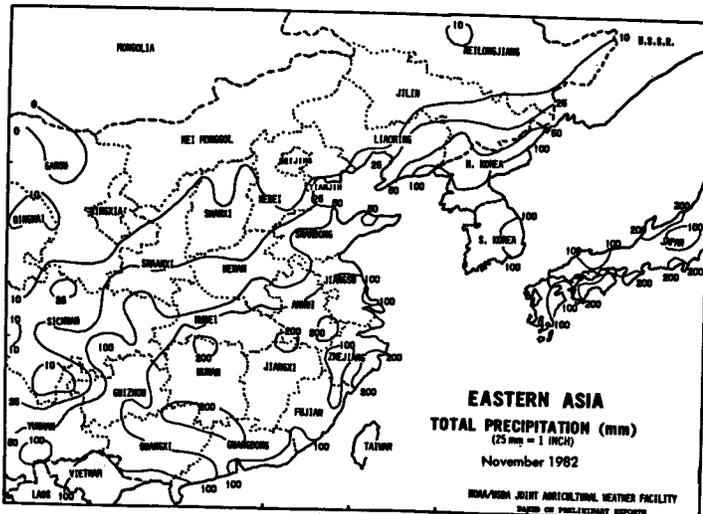
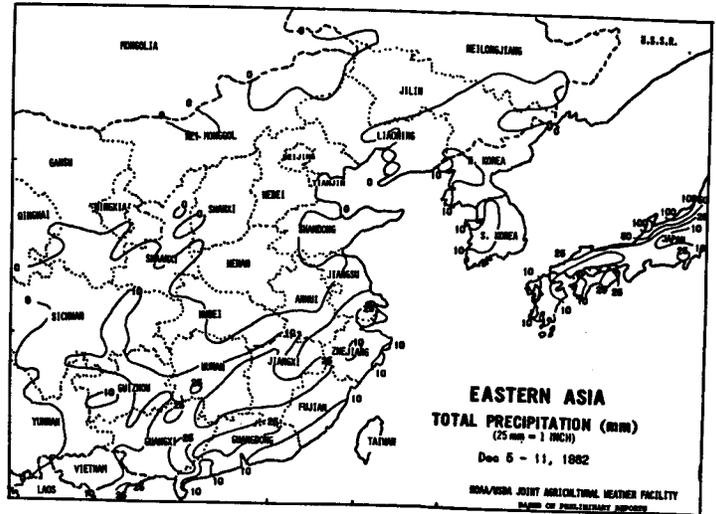
**SOUTH AFRICA...**Widespread showers fell across the Maize Triangle moistening topsoils for vegetative growth of corn and other recently sown crops. Weekly temperatures averaging near to slightly below normal helped moisture retention by reducing evapotranspiration rates somewhat. November rains were generally below average but relatively frequent showers provided adequate topsoil moisture for corn planting. Recent showers in northern crop areas were especially beneficial because topsoils had a moisture deficiency. Because rainfall amounts have varied greatly, some localized areas may still lack adequate moisture, notably in corn areas of western Transvaal and northeastern portions of the Transvaal. Warm summer weather during the next six weeks will necessitate frequent rains to meet the moisture needs of the corn crop as it advances from vegetative growth through the reproductive cycle.



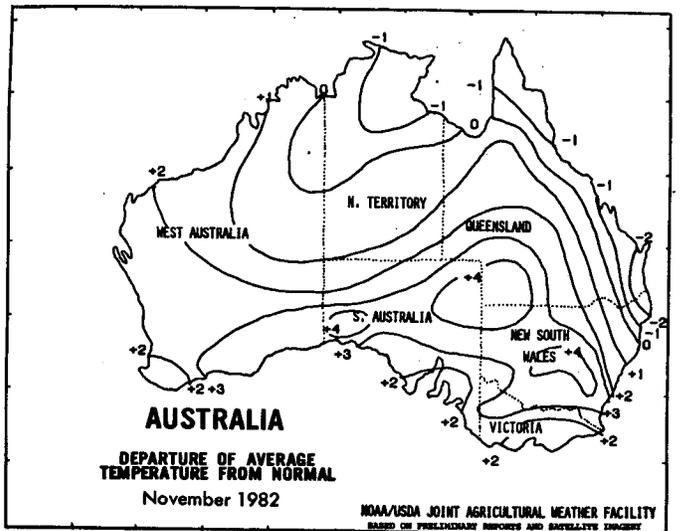
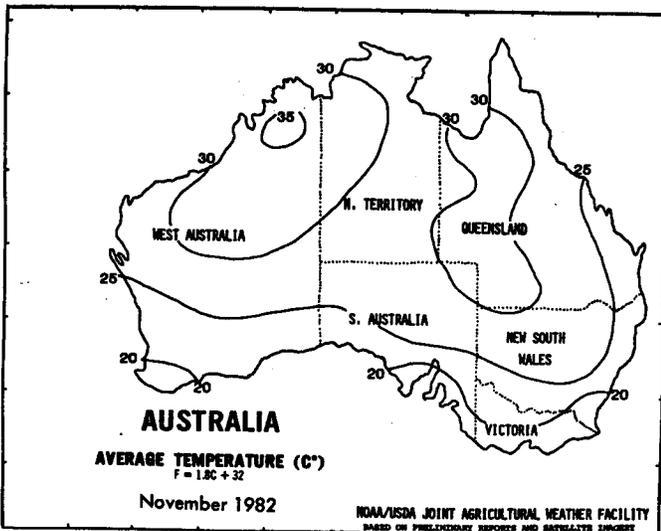
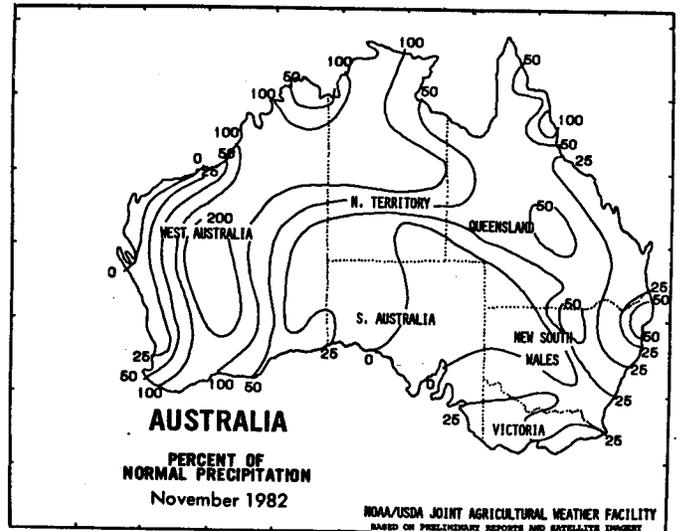
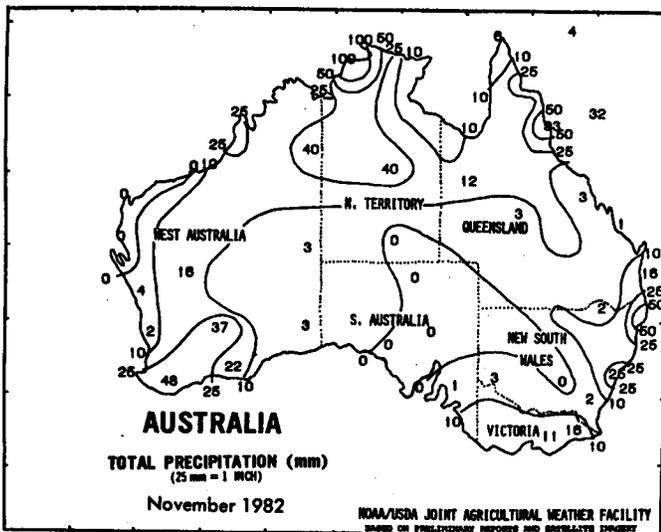
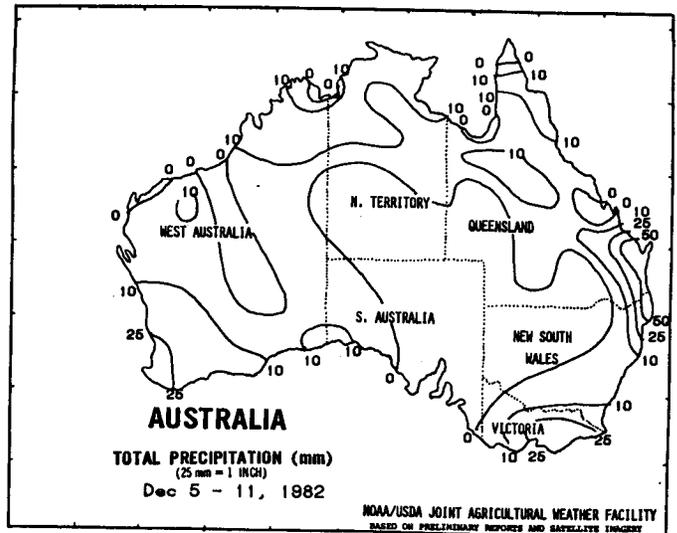
**SOUTH ASIA...**Wet weather covered most of Pakistan, a pattern which persisted through November. Dry weather covered most of India, aiding harvest activity. Normally, the harvests of cotton and winter rice are in full swing, while the groundnut harvest is almost complete. November's above-normal precipitation covered Gujarat, northern Madhya Pradesh, and Uttar Pradesh. However, most of this rain fell early in the month, produced by a tropical storm which entered Gujarat, weakening as it moved inland. Although these early month showers improved topsoil moisture needed for emergence of winter grains, dry weather immediately followed and continued into the present. As a result, unirrigated winter grains in northern India will rely heavily on January and February rains to meet the moisture demands of the crop.



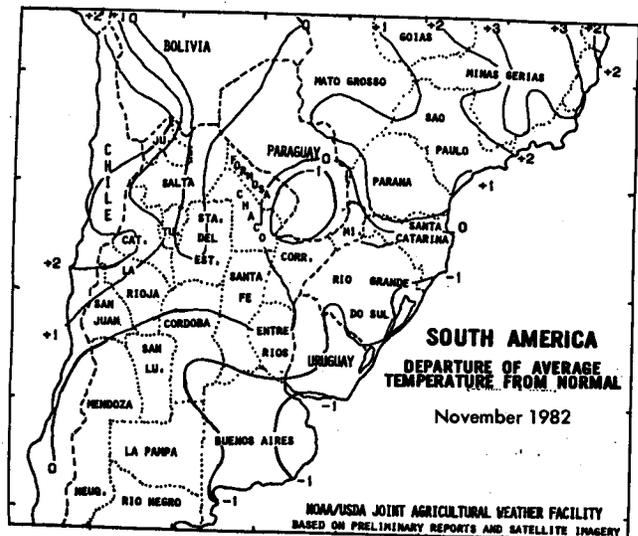
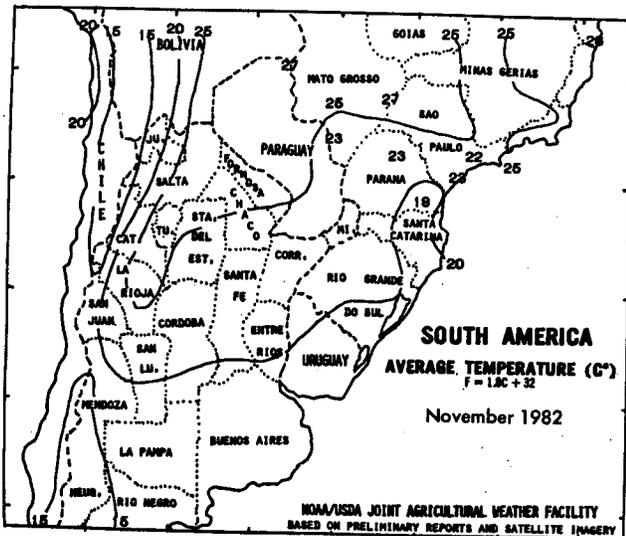
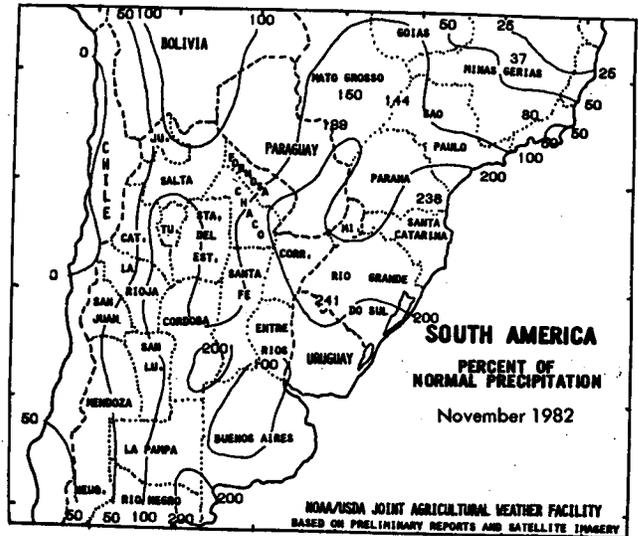
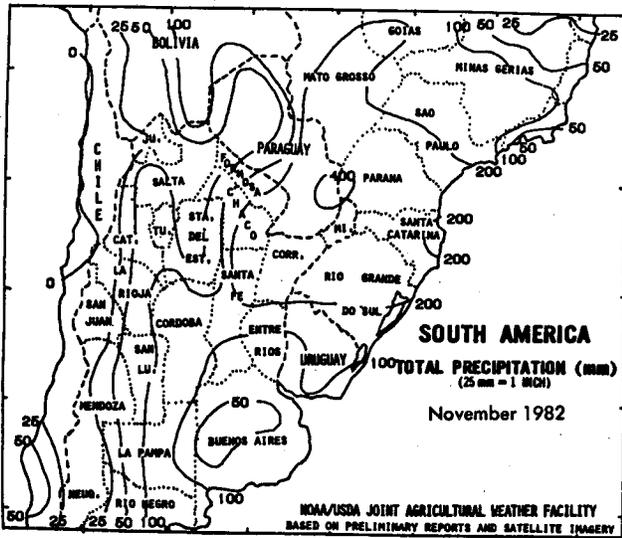
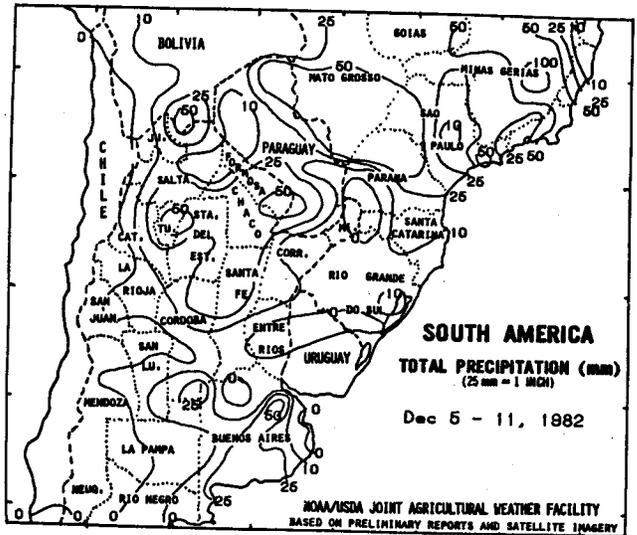
**EASTERN ASIA**...Generally dry conditions covered most winter grain areas of China and South Korea during the week, accompanied by cold weather which induced the crop into dormancy. In November, near- to above-normal precipitation covered most winter grains which continued to grow during the month. Well-above-normal precipitation fell south of the Yangtze river, however, which may have caused some delays in the late rice harvest. Wet weather continued to cover these areas this past week, but the wet conditions had little impact, as most of the rice is normally harvested by late November.



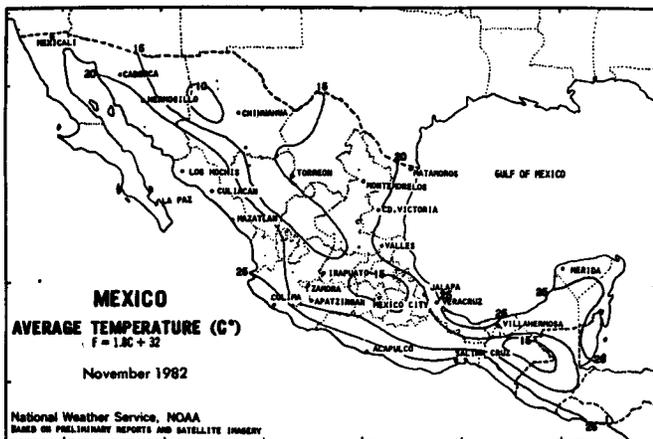
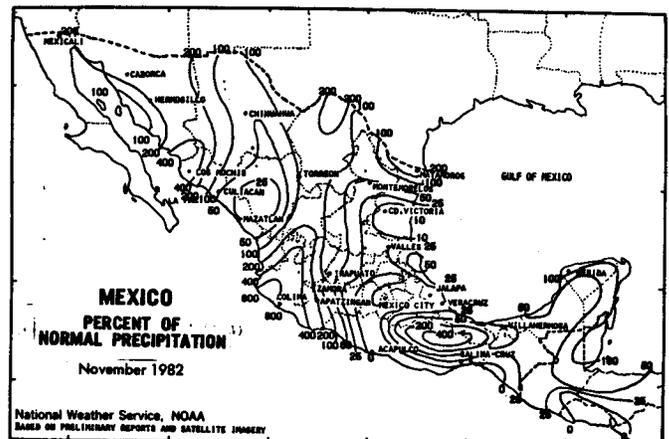
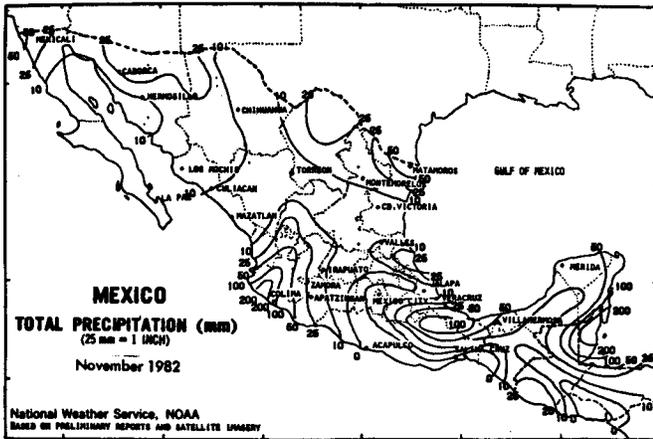
**AUSTRALIA**...Harvesting of winter wheat progressed rapidly in southern grain areas as dry weather prevailed over New South Wales, northern Victoria, and South Australia. Some rain interfered with the wheat harvest in Western Australia, while beneficial, though scattered, showers fell over portions of Queensland. Tropical showers were also scattered across the northern portion of the continent, but below-average rainfall occurred in eastern Queensland's sugarcane area. The prolonged drought, affecting summer crop areas of Queensland and New South Wales, continued during November imposing a severe moisture deficiency on newly sown cotton, sorghum, and corn. Recent showers have provided some relief but warm summer weather has increased the rate of evapotranspiration causing soils to dry out rapidly.



**SOUTH AMERICA**...Mostly dry weather in southern Brazil from Rio Grande do Sul into southern Parana allowed soybean planting to resume by midweek. Planting lagged well behind schedule due to the heavy rains which fell throughout November across much of Brazil's soybean area. The planting pace increased significantly with the recent dry weather, however. Below-average November rains in northern Sao Paulo, Minas Gerais, and Goias were compensated by substantial rains recently. In Argentina, showers during the week slowed the wheat harvest in southern Buenos Aires, while dry weather favored wheat harvesting in more northern areas. Although corn, sorghum, and other newly sown crops in northern Buenos Aires and southern Santa Fe presently have adequate moisture for early vegetative growth, rainfall since early November has been mostly below average. Additional moisture is needed during upcoming weeks in this area. Adequate moisture is available in northern sorghum and cotton areas due to above-average November rains and recent showers.



**MEXICO...**A weather disturbance in the upper atmosphere brought rains to the east coast and northwest. The moisture interfered with vegetable harvesting and disease control but improved soil moisture, especially benefiting ranges and wheat. Rains along the east coast were helpful to citrus and coffee. Most other principal agricultural areas remained dry, allowing harvest and field operations.



(continued from p.17)

on equipment. Rhubarb growers digging crowns for forcing for early market. Livestock remain in good condition. Some water sources freezing. Most stock off pasture until early spring.

**East:** Wheat and barley seedlings were mostly in good shape with adequate snowcover. Field corn harvest virtually complete. Late fall fertilizing being done. Fruit tree and grapevine pruning continues. Livestock in good shape. Some on supplemental feed on fall ranges, but most on winter rations. Central Navels slow, southern Navels waiting for sizes to increase.

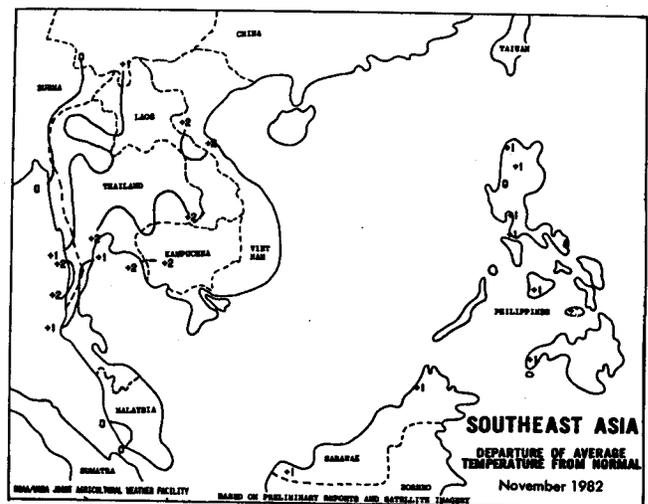
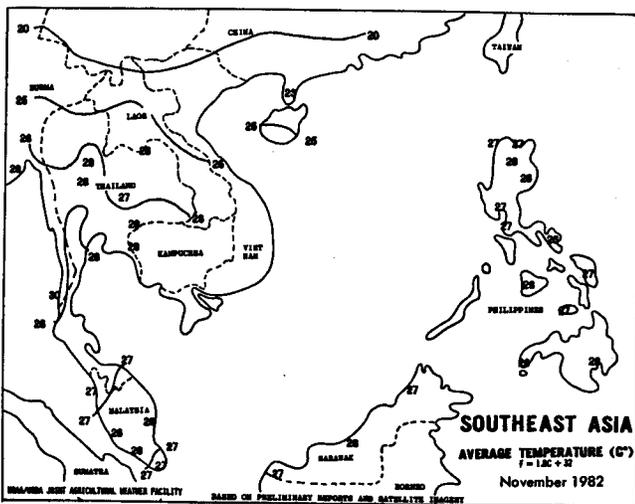
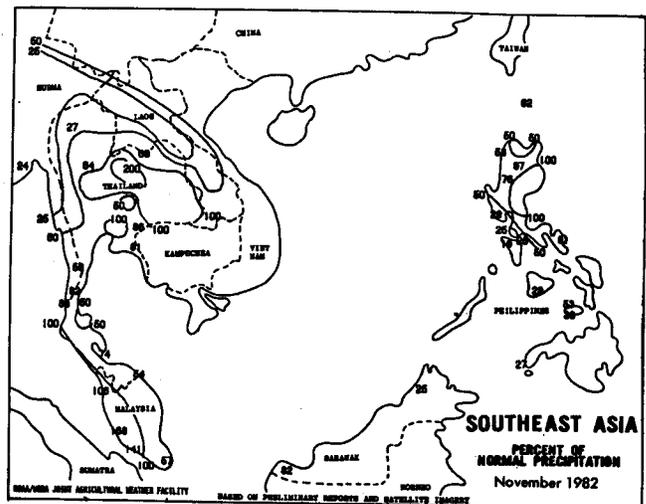
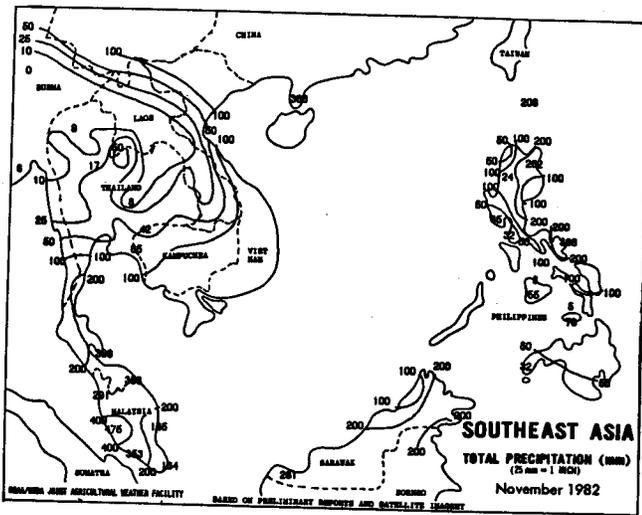
**WEST VIRGINIA:** Temperatures averaged 6° above normal. High 75°, low 8°. Precipitation was below normal in the northern areas and well above across the rest of the State.

Soil moisture adequate. Days worked averaged 4.3. Hay supplies were adequate. Grain and other feed supplies were also adequate.

**WISCONSIN:** Week began on a mild note and then turned cooler, but temperatures moderated by the weekend. Temperatures ranged from a pleasant 46° in Racine on the 6th to a considerably colder -15° in Harrison (Calumet County) on the 8th. Snow fell in south on the 7th and 8th with accumulations ranging from 0.50 to 1.50 in.

**WYOMING:** Average of 4.5° below normal temperatures. Moisture average with no large departures from normal.

Winter wheat mostly good. Livestock mostly good condition. Supplemental feeding necessary in areas with snow cover and cold temperatures.



The Weekly Weather and Crop Bulletin (ISSN 0043-1974) is published weekly and jointly prepared by the U.S. Department of Commerce, National Oceanic and Atmospheric Administration (NOAA) and the U.S. Department of Agriculture (USDA). Publication began in 1872 as the Weekly Weather Chronicle. It is issued under general authority of the Act of January 12, 1895 (44- USC 213), 53d Congress, 3d Session. NOAA is responsible for managing, printing, and distributing the Bulletin. The contents may be reprinted freely, with proper credit.

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