

WEEKLY WEATHER AND CROP BULLETIN

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

U.S. DEPARTMENT OF AGRICULTURE
National Agricultural Statistics Service and World Agricultural Outlook Board

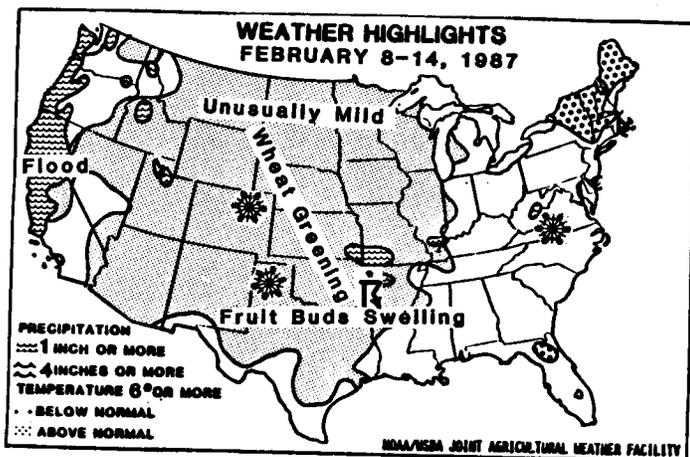
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National Weather Summary

February 8 to 14, 1987



WEDNESDAY...Light snow fell from the eastern Great Lakes to the central Appalachians as cold air continued to blow across the Lakes. Showers still covered the West with snow at the higher passes and peaks. Showers of rain or snow moved across the Plateau to the southern Rockies. Warmer weather covered the Southeast.

THURSDAY...Snow continued from the eastern Great Lakes to the central and upper Appalachians. Another storm developed along the Mid-Atlantic coast and spread snow from eastern Maryland to New England. A very wet storm system brought heavy rain and strong winds to the west coast to central California. The heavy rain extended inland into the Cascades and Sierras. Snow fell at the highest elevations. Showers and a few thunderstorms developed from western Texas into central Kansas.

FRIDAY...An extensive Pacific frontal system moved through the western States, bringing widespread rain and snow. Flooding resulted from heavy rain in the coastal mountains of central California. Afternoon and evening thunderstorms extended from northeastern Oklahoma and southeastern Kansas to western Tennessee, causing hail and high wind. Scattered snow and freezing rain fell from the upper Mississippi to the lower Great Lakes. Bitter cold and strong wind gripped the Northeast.

SATURDAY...A storm system triggered severe thunderstorms across the southern Plains and heavy snow in the central Rockies and western Plains. Very cold air remained over the Northeast. By evening, another Pacific storm system brought more rain and high wind to the central and northern west coast.

HIGHLIGHTS: Pacific storms battered the west coast with heavy rain and strong wind. Extensive flooding occurred along the central coast of California. Winter storms brought snow, high wind, and bitter cold to the Northeast. At the end of the week, severe thunderstorms moved across the southern Plains, and middle and lower Mississippi Valley, while heavy snow blanketed the central Rockies.

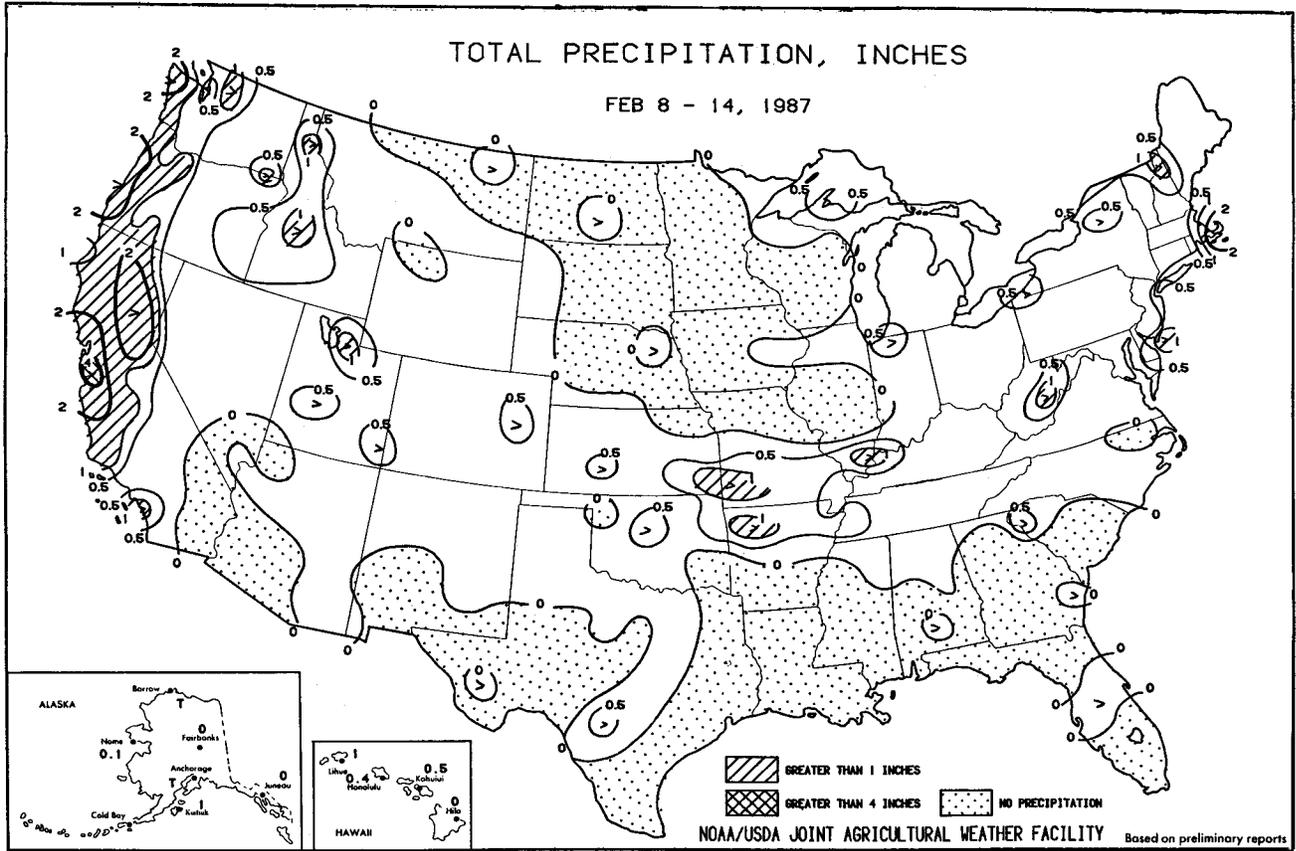
SUNDAY...A severe winter storm moved through the Great Lakes and Northeast, buffeting the area with strong northerly wind and severely cold weather. Heavy, blowing snow fell in parts of the Great Lakes and the Northeast. Much colder air moved across the Northeast and pushed southward into the East Coast States accompanied by strong wind.

MONDAY...Snow and strong wind moved over the Northeast coast, covering Cape Cod with deep drifts. The colder air plunged southward and covered the area east of the Mississippi River. Severely cold weather reached from the Great Lakes to the Ohio Valley and the Appalachians. A Pacific storm brought showers to the entire west coast and across the Cascades and Sierras. Relatively warm weather covered the West.

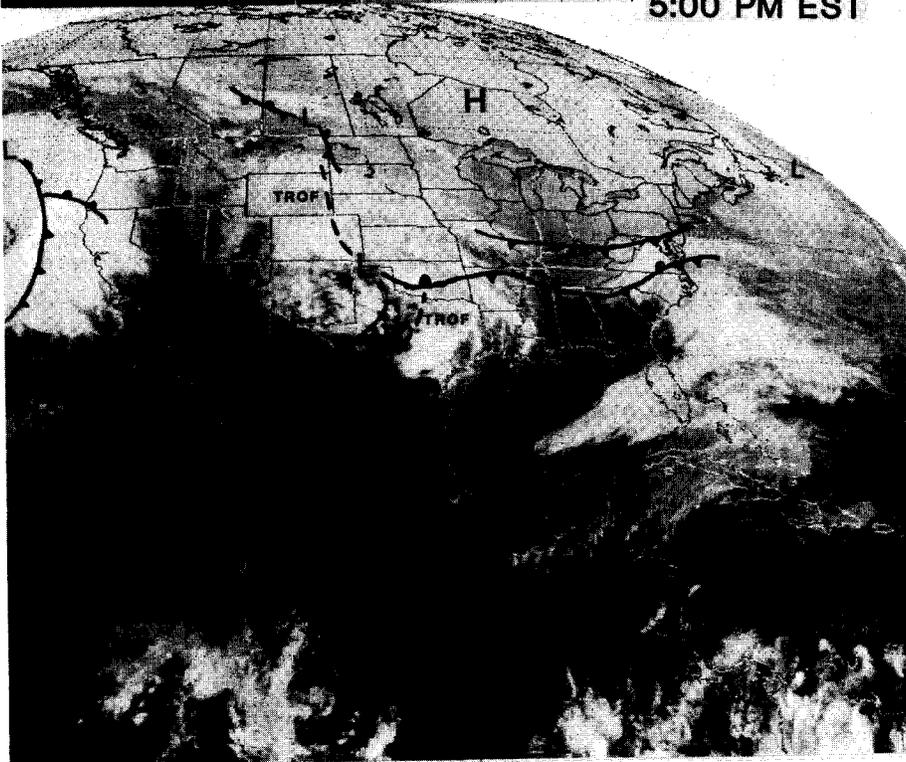
TUESDAY...Only a few snowshowers remained in the Northeast as freezing temperatures dipped into northern Florida and to the eastern gulf coast. Warmer weather through the Plains was already pushing eastward. Showers continued along the west coast, and moderate to heavy showers fell in the northern Sierras. Snow fell at only the highest locations.

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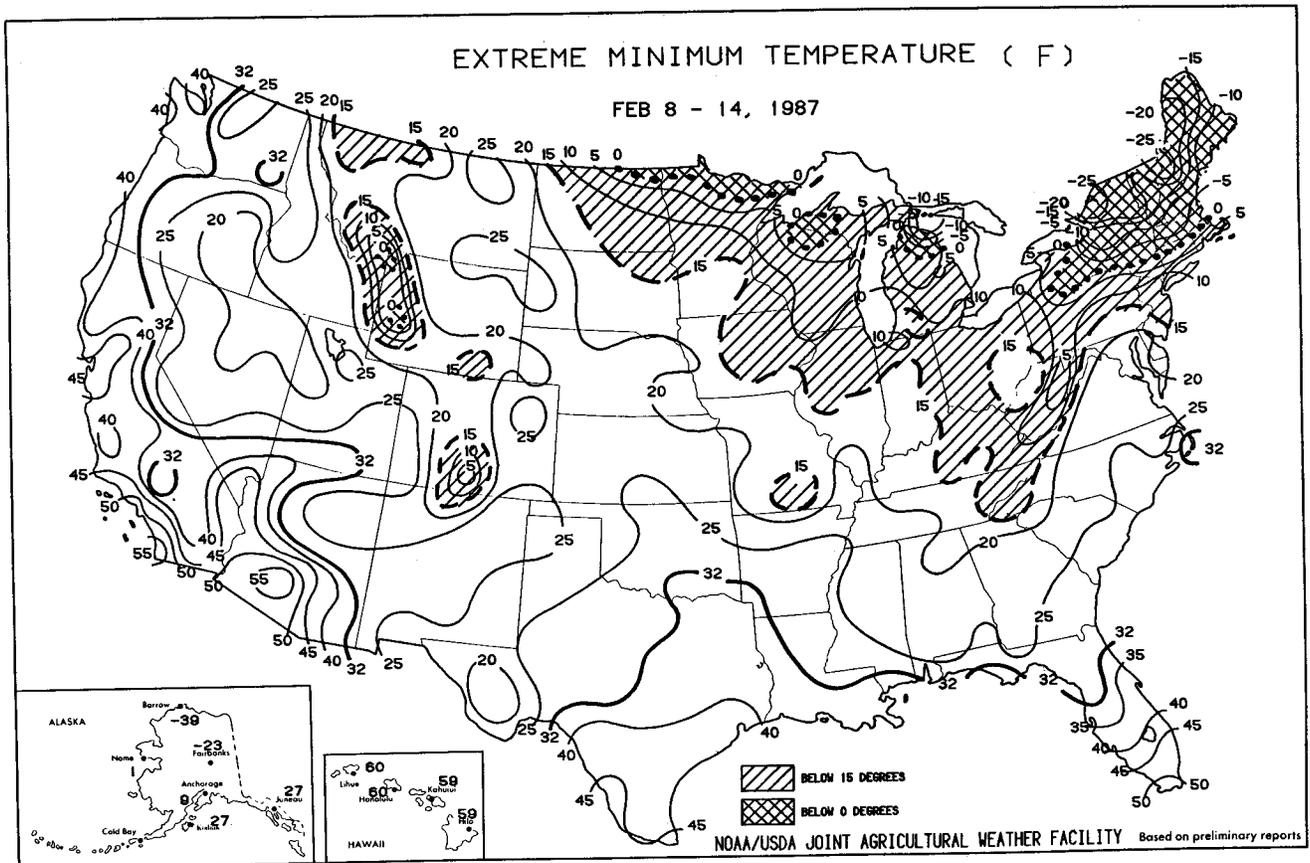
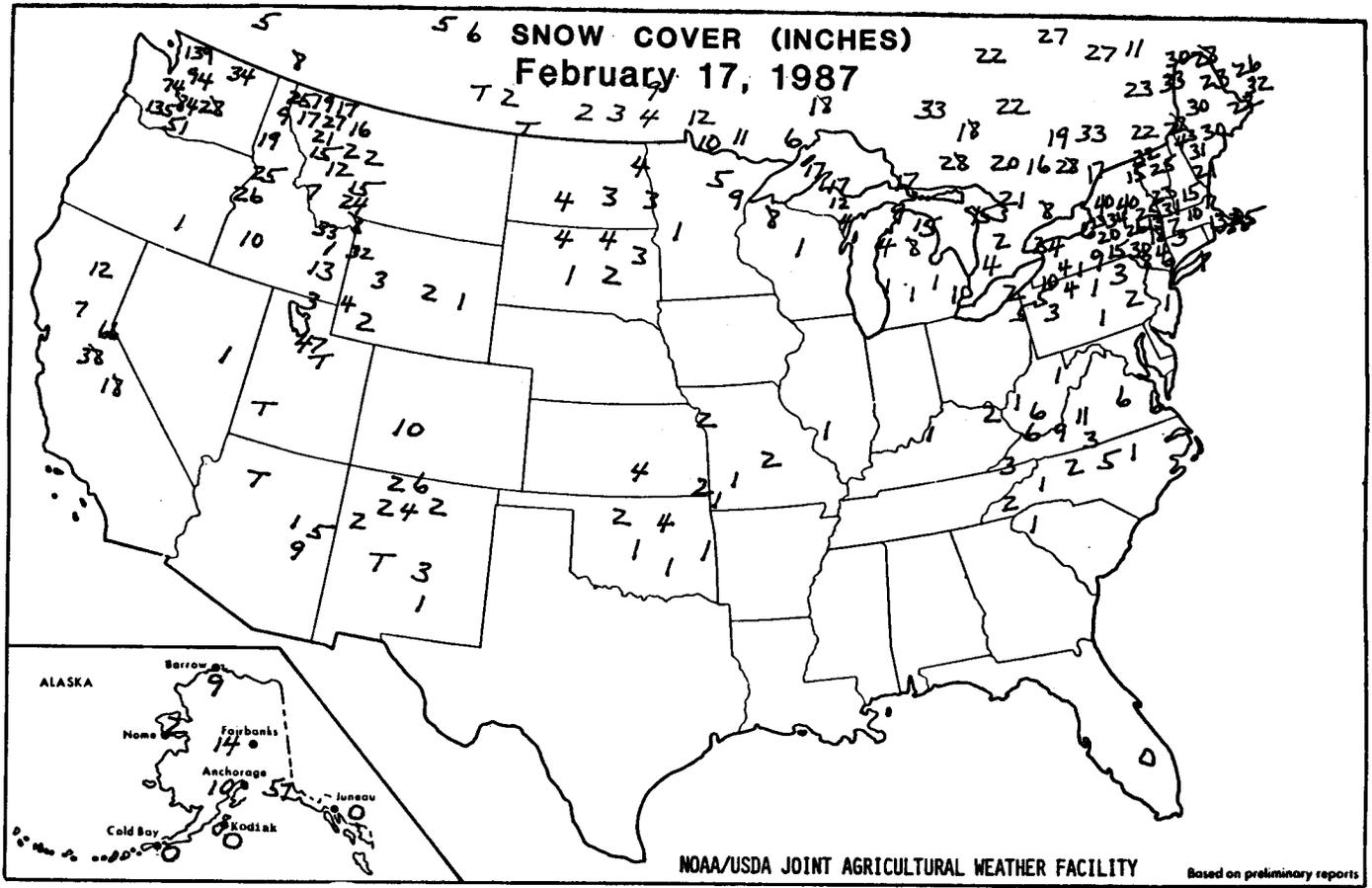
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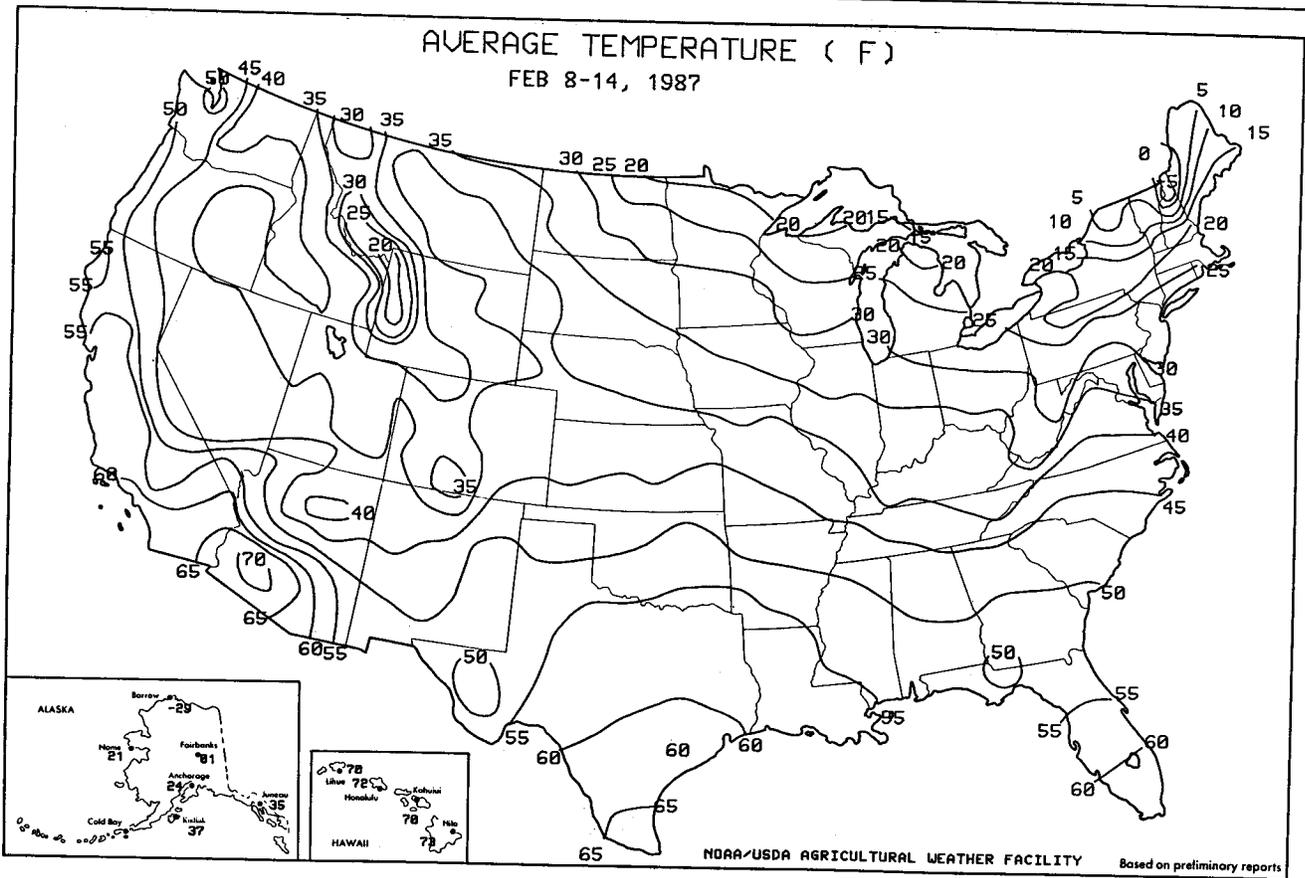


A STORM SYSTEM CENTERED OVER THE OKLAHOMA PANHANDLE TRIGGERS SEVERE THUNDERSTORMS OVER THE SOUTHERN GREAT PLAINS AND SNOW OVER THE WESTERN PLAINS AND SOUTHERN ROCKIES.

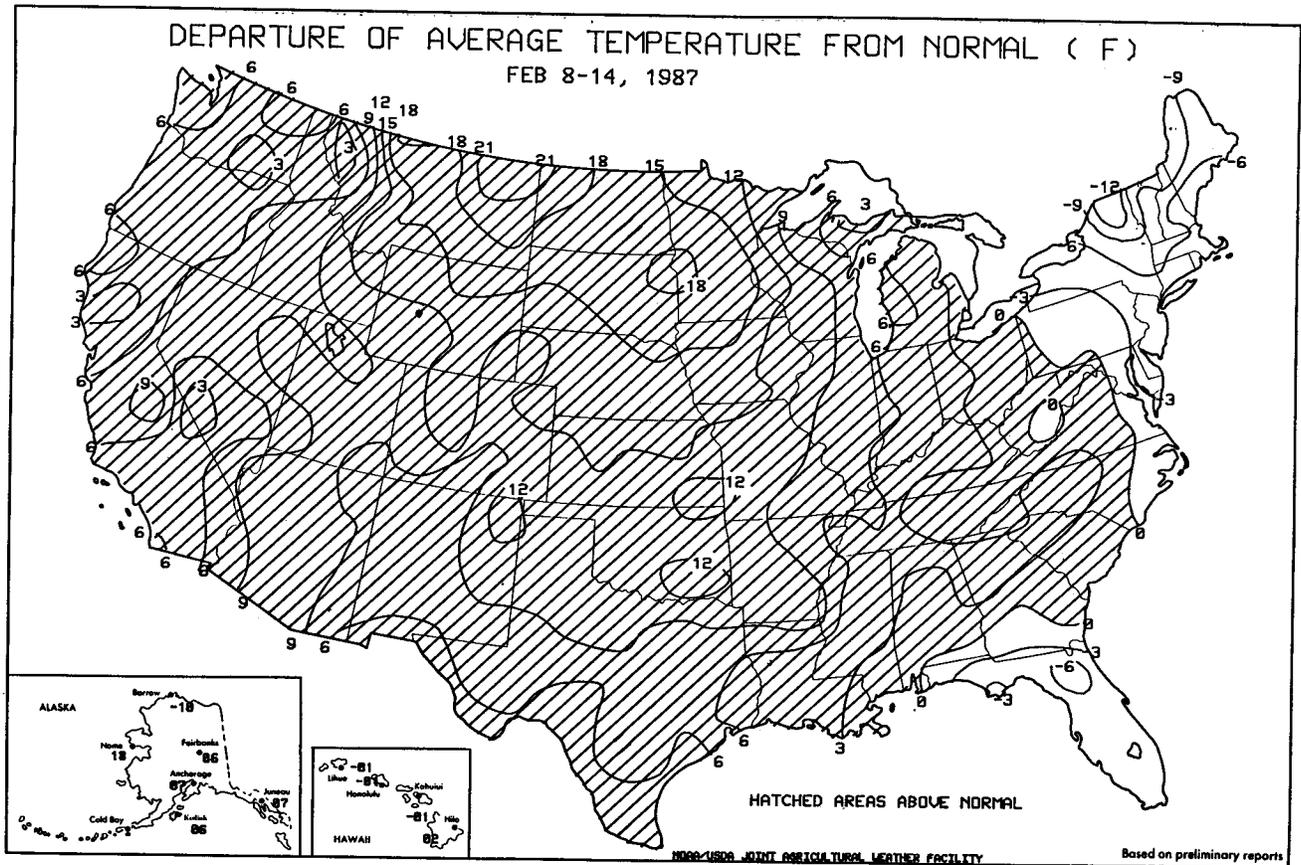
A LARGE HIGH PRESSURE SYSTEM CENTERED OVER WESTERN ONTARIO BRINGS ARCTIC AIR INTO THE NORTHEAST. RAIN AND SNOW FALLS OVER VIRGINIA, SOUTH OF THE COLD FRONTAL SYSTEM.

ANOTHER PACIFIC STORM IS POISED TO BRING MORE RAIN, WITH SNOW IN THE MOUNTAINS, TO THE WEST COAST.





Point values may differ on these computerized maps from the reported values in the tables.



National Weather Data for Selected Cities

Weather Data for the Week Ending February 14, 1987

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 DEC. 1	PCT. NORMAL SINCE DEC. 1	TOTAL, IN., SINCE JAN. 1	PCT. NORMAL SINCE JAN. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	64	31	73	19	48	2	T	-1.1	T	10.4	84	7.0	93	88	27	0	5	1	0
MOBILE	68	40	75	26	54	1	0	-1.2	0	11.5	94	7.9	114	89	36	0	1	0	0
MONTGOMERY	66	35	75	22	51	1	0	-1.1	0	12.7	114	9.6	152	86	30	0	3	0	0
AK ANCHORAGE	31	17	35	9	24	7	T	-2.2	T	3.1	132	1.7	131	90	65	0	7	1	0
BARROW	-25	-33	-10	-39	-29	-9	T	0	T	.3	49	.2	50	73	65	0	7	1	0
FAIRBANKS	12	-9	18	-23	1	7	T	-1.1	T	1.0	66	.7	88	86	65	0	7	0	0
JUNEAU	39	31	41	27	35	7	1.0	-1.1	.5	12.5	122	5.8	104	94	64	0	5	3	1
KODIAK	41	32	44	27	37	8	1.0	-1.7	.4	24.6	136	13.2	112	91	63	0	3	4	0
NOME	26	15	34	1	21	18	1.1	-1.1	0	2.1	121	1.0	91	87	63	0	7	2	0
AZ PHOENIX	79	57	84	55	68	13	T	-1.1	T	2.1	111	.7	70	53	20	0	0	0	0
PRESCOTT	62	35	64	28	49	10	.3	-1.1	.3	2.3	57	1.5	60	77	29	0	1	1	0
TUCSON	76	49	81	44	62	9	T	-1.1	T	1.9	89	.6	50	58	19	0	0	1	0
YUMA	81	54	84	51	67	8	0	-1.1	0	.3	36	.1	20	51	23	0	0	0	0
AR FORT SMITH	66	36	78	24	51	10	.3	-1.3	.3	4.5	77	3.3	110	88	35	0	2	1	0
LITTLE ROCK	62	41	74	27	52	9	.1	-1.9	0	5.2	55	1.9	35	75	43	0	2	2	0
CA BAKERSFIELD	68	48	74	40	58	5	.3	-1.1	.2	3.0	136	2.0	133	93	53	0	0	3	0
EUREKA	64	50	71	41	57	8	1.0	-1.3	.3	12.8	81	9.0	93	87	54	0	0	6	0
FRESNO	69	52	74	45	60	10	1.1	-1.6	.7	5.5	117	3.2	107	88	51	0	0	4	1
LOS ANGELES	67	56	76	54	61	4	.4	-1.3	.3	2.0	33	1.7	39	90	59	0	0	3	0
REDDING	59	41	70	34	50	***	2.5	***	1.0	12.5	***	10.6	98	61	0	0	6	3	3
SACRAMENTO	63	49	68	41	56	6	1.5	-.8	.8	5.4	64	4.7	84	97	58	0	0	4	1
SAN DIEGO	69	57	77	55	63	5	.3	-1.1	-.1	2.8	68	1.9	68	92	57	0	0	3	0
SAN FRANCISCO	62	52	69	45	57	5	2.8	2.0	1.6	7.7	78	6.1	95	98	70	0	0	5	2
CO DENVER	58	30	68	24	44	11+	.4	-.3	.4	1.5	112	1.2	150	76	25	0	5	2	0
GRAND JUNCTION	51	31	54	26	41	8	.4	-.3	.3	1.4	96	1.0	111	93	46	0	4	4	0
PUEBLO	60	26	70	20	43	8	1.1	0	1.1	1.2	175	.8	200	90	25	0	6	1	0
CT BRIDGEPORT	34	18	42	6	26	-4	.3	-.4	.2	9.5	112	5.1	109	79	39	0	7	3	0
HARTFORD	32	12	39	-1	22	-4	.3	-.4	.3	12.7	137	6.5	127	68	34	0	7	2	0
DC WASHINGTON	45	28	56	24	37	0	.1	-.5	.1	10.0	139	5.1	128	75	35	0	3	1	0
FL APALACHICOLA	63	40	71	33	52	-2	0	-.9	0	16.4	187	6.8	128	93	44	0	0	0	0
DAYTONA BEACH	68	41	74	35	55	-3	T	-.8	T	8.9	147	6.2	159	92	31	0	0	1	0
JACKSONVILLE	66	36	73	29	51	-3	0	-.8	0	12.5	170	7.8	166	93	27	0	3	0	0
KEY WEST	72	58	75	53	65	-5	T	-.5	T	12.5	280	1.3	48	86	48	0	0	0	0
MIAMI	74	53	78	47	63	-4	T	-.6	T	5.2	103	3.0	94	90	41	0	0	0	0
ORLANDO	69	45	76	39	57	-4	T	-.7	T	5.6	107	2.0	59	90	31	0	0	1	0
TALLAHASSEE	68	30	75	21	49	-4	0	-1.2	0	15.4	132	7.5	106	95	25	0	4	0	0
TAMPA	68	44	73	33	56	-4	T	-.7	T	5.4	95	3.5	97	91	34	0	0	1	0
WEST PALM BEACH	72	52	78	45	62	-3	0	-.7	0	12.1	191	2.0	49	90	39	0	0	0	0
GA ATLANTA	62	36	72	24	49	5	0	-1.1	0	10.1	90	7.0	100	62	23	0	3	0	0
AUGUSTA	66	31	75	21	49	2	0	-1.0	0	14.9	163	10.7	181	78	20	0	5	0	0
MACON	66	34	75	22	50	2	0	-1.1	0	12.6	121	9.0	141	81	21	0	3	0	0
SAVANNAH	66	37	75	26	52	1	0	-.8	0	15.3	207	10.2	222	81	23	0	2	0	0
HI HILO	81	63	84	59	72	1	T	-3.4	T	14.3	50	8.5	54	87	48	0	0	0	0
HONOLULU	81	64	84	60	72	-1	.4	-.2	.3	1.4	16	.8	16	91	59	0	0	2	0
KAHULUI	78	62	82	59	70	-1	.5	-.4	.3	5.1	58	2.2	37	89	58	0	0	2	0
LIHUE	77	63	83	60	70	-1	1.0	-.1	.6	3.7	27	2.4	29	93	61	0	0	3	1
ID BOISE	53	31	59	25	42	7	.7	-.4	.7	1.8	49	1.6	73	94	47	0	3	1	1
LEWISTON	51	34	55	30	43	5	.2	0	.1	1.3	42	.8	42	95	57	0	4	3	0
POCATELLO	51	27	56	20	39	10	.3	-.1	.2	1.6	64	1.4	88	94	47	0	5	3	0
IL CHICAGO	43	23	53	13	33	8	.2	-.1	.2	2.9	68	1.8	82	87	47	0	7	1	0
MOLINE	47	22	57	11	34	10	T	-.2	T	2.9	71	1.0	45	88	45	0	7	1	0
PEORIA	47	23	59	11	35	9	0	-.3	0	4.2	98	1.6	73	88	47	0	7	0	0
QUINCY	51	27	62	17	39	11	0	-.3	0	3.4	92	1.6	80	82	49	0	5	0	0
ROCKFORD	43	20	52	10	32	9	1.1	-.2	.1	1.6	41	1.0	50	89	49	0	7	1	0
SPRINGFIELD	49	26	60	14	37	9	T	-.4	T	2.9	65	1.5	63	82	47	0	5	0	0
IN EVANSVILLE	51	26	60	19	39	5	.5	-.2	.5	4.0	50	1.8	41	85	45	0	6	1	1
FORT WAYNE	39	21	45	13	30	5	T	-.5	T	3.7	68	2.1	70	89	58	0	7	2	0
INDIANAPOLIS	46	25	57	16	35	6	.1	-.5	.1	3.3	49	1.6	42	85	51	0	7	1	0
SOUTH BEND	39	20	44	7	30	4	.8	-.3	.7	4.8	74	3.1	89	91	60	0	7	3	1
IA DES MOINES	50	23	60	14	37	13	T	-.3	T	1.4	56	.5	33	86	42	0	7	0	0
SIoux CITY	50	23	60	17	36	14	T	-.2	T	.5	29	.3	30	88	41	0	7	0	0
WATERLOO	42	21	52	15	32	13	T	-.2	T	1.3	54	.5	42	95	59	0	7	0	0
KS CONCORDIA	57	30	70	24	44	14	T	-.2	T	2.2	134	.8	89	85	39	0	4	1	0
DODGE CITY	61	30	71	22	46	11	.7	-.5	.6	2.2	186	1.3	186	82	30	0	5	2	1
GOODLAND	58	27	66	23	43	11	1.1	0	.1	.6	63	.5	100	77	29	0	6	1	0
TOPEKA	56	30	67	20	43	11	T	-.2	T	2.7	103	1.5	115	94	47	0	5	0	0
WICHITA	58	33	71	23	45	11	.2	0	.2	3.1	158	1.9	190	92	45	0	4	1	0
KY BOWLING GREEN	51	28	61	19	39	3	.3	-.6	.3	7.1	64	2.4	37	90	39	0	5	2	0
LEXINGTON	48	26	58	13	37	3	.4	-.3	.4	5.2	59	1.9	37	79	39	0	5	2	0
LOUISVILLE	51	28	60	19	40	5	.4	-.4	.4	4.4	52	1.7	35	76	37	0	5	1	0
LA ALEXANDRIA	68	45	74	32	56	2	0	-1.4	0	10.2	83	5.2	70	82	45	0	1	0	0
BATON ROUGE	71	43	75	31	57	5	0	-1.3	0	14.4	119	8.1	114	84	35	0	1	0	0
LAKE CHARLES	70	44	78	33	57	4	T	-1.0	T	16.7	147	6.9	110	95	43	0	0	0	0
NEW ORLEANS	70	43	76	32	57	3	0	-1.3	0	14.8	115	9.8	129	92	41	0	1	0	0

Based on 1951-80 normals.

Weather Data for the Week Ending February 14, 1987

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 DEC. 1	PCT. NORMAL SINCE DEC. 1	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	
SHREVEPORT	71	42	78	32	57	8	T	-9	T	8.6	89	3.9	67	94	37	0	1	0	0	
ME CARIBOU	12	-3	26	-12	5	-7	T	-5	T	4.1	63	2.5	74	77	51	0	7	1	0	
PORTLAND	27	6	36	-11	16	-6	T	-9	T	11.2	111	5.3	96	71	38	0	7	1	0	
MD BALTIMORE	42	25	52	20	33	0	T	-7	T	11.4	146	5.9	134	72	33	0	7	1	0	
SALISBURY	42	23	49	17	32	4	T	.5	-3	.4	15.0	173	8.2	164	90	43	0	7	3	0
MA BOSTON	32	15	39	-1	24	-6	T	.7	-2	.7	14.4	140	8.1	140	64	36	0	7	2	1
CHATHAM	33	19	44	6	26	-4	T	3.7	2.6	2.1	17.3	152	9.8	153	76	33	0	7	2	2
MI ALPENA	31	6	38	-17	18	1	T	.4	-1	.3	2.6	62	1.7	74	94	53	0	7	4	2
DETROIT	36	19	42	11	27	3	T	.1	-3	-1	4.7	91	2.5	93	89	53	0	7	2	0
FLINT	35	16	41	6	26	3	T	.2	-2	.1	3.1	72	1.4	61	89	50	0	7	4	0
GRAND RAPIDS	38	19	45	12	28	6	T	.3	T	1.8	34	.7	27	85	50	0	7	2	0	
HOUGHTON LAKE	30	11	38	0	21	4	T	.4	0	.1	2.3	58	1.5	71	90	49	0	7	4	0
LANSING	36	17	42	6	27	4	T	.3	T	0	2.1	45	1.1	44	89	53	0	7	1	0
MARQUETTE	29	8	37	0	19	5	T	.8	-3	.4	3.4	64	2.9	100	94	63	0	7	4	0
MUSKOGON	39	20	45	11	29	6	T	.1	-3	.1	3.0	52	1.6	50	93	53	0	7	3	0
SAULT STE. MARIE	25	4	35	-4	14	1	T	.2	-3	.1	4.7	84	2.5	81	89	43	0	7	3	0
MN ALEXANDRIA	38	20	45	15	29	18	0	-1	0	.8	43	.7	58	93	55	0	7	0	0	
DULUTH	31	15	37	7	23	12	T	.1	-1	.1	1.3	44	.8	50	87	56	0	7	1	0
INT'L FALLS	29	10	38	-3	19	13	T	-1	T	.8	38	.5	42	86	45	0	7	1	0	
MINNEAPOLIS	43	22	50	15	32	16	T	-2	T	.9	45	.6	50	85	44	0	7	0	0	
ROCHESTER	39	19	45	12	29	13	0	-1	0	1.0	51	.6	60	90	57	0	7	0	0	
MS GREENWOOD	66	37	73	24	52	5	T	-1.1	T	7.5	59	4.9	67	88	33	0	2	0	0	
JACKSON	68	38	76	25	53	5	0	-1.1	0	12.1	96	7.1	99	94	34	0	2	0	0	
MERIDIAN	69	35	77	22	52	4	0	-1.1	0	15.8	124	11.7	165	93	28	0	3	0	0	
MO CAPE GIRARDEAU	55	30	66	20	43	—	.5	-2	.5	3.8	48	1.5	36	91	50	0	4	2	0	
COLUMBIA	56	29	66	16	42	11	0	-4	0	4.1	95	2.1	88	84	40	0	4	0	0	
KANSAS CITY	56	30	66	20	43	12	T	-3	T	2.5	83	1.2	75	88	45	0	4	0	0	
SAINT LOUIS	54	31	66	19	43	10	0	-5	0	3.1	64	2.1	78	74	41	0	4	0	0	
SPRINGFIELD	59	33	69	16	46	11	1.5	1.0	1.0	5.3	104	4.0	160	79	38	0	3	2	2	
MT BILLINGS	56	30	62	23	43	15	T	-2	T	.2	9	.1	7	70	29	0	5	1	0	
GLASGOW	46	28	56	27	37	22	T	-1	T	.2	18	.1	14	94	57	0	7	1	0	
GREAT FALLS	59	30	63	24	44	18	.1	-1	.1	.4	16	.1	7	72	24	0	4	1	0	
HAVRE	53	20	61	15	36	18	T	-1	T	.1	5	.1	11	88	33	0	7	0	0	
HELENA	50	22	54	17	36	11	T	-1	T	.4	26	0	0	92	43	0	7	1	0	
KALISPELL	36	19	43	14	27	2	T	-3	T	1.4	38	.9	41	100	83	0	7	1	0	
MILES CITY	55	26	60	23	41	20	T	-1	T	.2	14	.1	11	79	32	0	7	0	0	
MISSOULA	40	22	44	16	31	4	.1	-1	.1	1.1	35	.6	32	97	72	0	7	1	0	
NE GRAND ISLAND	54	25	66	20	39	13	T	-2	T	.4	26	.1	11	86	35	0	7	0	0	
LINCOLN	55	23	67	14	39	13	0	-2	0	1.5	87	.2	18	88	40	0	6	0	0	
NORFOLK	50	26	65	22	38	15	T	-2	T	1.0	64	.6	67	88	43	0	7	1	0	
NORTH PLATTE	56	24	67	21	40	14	T	-1	T	.7	61	.4	57	90	32	0	7	0	0	
OMAHA	52	28	66	23	40	16	T	-2	T	.7	39	.1	9	80	48	0	7	0	0	
SCOTTSBLUFF	57	24	63	20	40	11	.3	-2	.3	1.1	100	.8	133	88	31	0	7	1	0	
VALENTINE	54	20	67	17	37	14	T	-1	T	.2	26	.2	40	85	33	0	7	0	0	
NV ELY	48	25	52	22	37	8	.2	-1	.2	1.1	63	1.0	100	90	45	0	7	2	0	
LAS VEGAS	68	48	71	45	58	8	T	-1	T	1.7	152	1.2	150	68	29	0	0	1	0	
RENO	56	32	62	27	44	7	.4	-1	.4	1.1	37	.9	50	83	36	0	4	3	0	
WINNEMUCCA	57	28	62	23	43	7	.1	-1	.1	.9	40	.8	62	79	31	0	6	2	0	
NH CONCORD	27	6	38	-6	17	-5	T	-6	T	7.5	101	3.0	75	65	33	0	7	1	0	
NJ ATLANTIC CITY	37	19	44	14	28	-4	.3	-5	.2	11.5	132	6.7	131	86	46	0	7	3	0	
NM ALBUQUERQUE	58	33	64	28	46	7	.1	0	.1	1.2	111	.8	133	81	31	0	3	1	0	
CLOVIS	66	36	72	24	51	10	.2	0	.2	2.0	138	.6	75	81	27	0	2	1	0	
ROSWELL	70	34	77	25	52	7	T	0	T	1.1	171	.3	75	80	21	0	3	1	0	
NY ALBANY	29	4	40	-10	16	-6	T	-5	T	8.3	129	4.4	126	87	49	0	7	2	0	
BINGHAMTON	28	11	37	-5	20	-2	.3	-3	.1	5.9	90	3.5	95	87	53	0	7	5	0	
BUFFALO	28	13	40	5	21	-3	.4	-2	.3	7.5	99	3.5	83	89	56	0	7	4	0	
NEW YORK	37	23	43	14	30	-3	.5	-3	.2	11.1	135	5.9	128	77	43	0	7	2	0	
ROCHESTER	27	12	43	2	20	-4	.4	-2	.3	5.9	99	2.4	71	92	39	0	7	3	0	
SYRACUSE	27	7	39	-13	17	-6	.2	-4	.1	7.0	98	3.6	92	87	52	0	7	3	0	
NC ASHEVILLE	55	24	64	13	40	1	.2	-7	.1	8.2	95	3.9	75	82	22	0	7	2	0	
CHARLOTTE	60	30	71	21	45	3	.2	-8	.2	8.5	95	5.4	96	70	20	0	5	1	0	
GREENSBORO	55	29	67	23	42	3	.1	-8	.1	7.7	90	4.1	79	63	24	0	6	1	0	
HATTERAS	53	34	60	32	43	-2	T	-1.0	T	18.1	160	11.4	168	90	42	0	1	1	0	
NEW BERN	60	29	70	25	45	-1	T	-1.0	T	11.0	113	7.5	125	86	33	0	7	1	0	
RALEIGH	58	29	69	25	44	3	.1	-8	.1	9.6	115	6.7	129	63	23	0	6	1	0	
WILMINGTON	62	31	72	27	47	0	T	-8	T	13.5	154	7.2	136	77	26	0	4	1	0	
ND BISMARCK	39	22	52	13	30	17	.2	0	.2	.3	25	.3	38	95	65	0	7	1	0	
FARGO	34	19	45	10	27	17	T	-1	T	.6	40	.3	38	92	63	0	7	0	0	
GRAND FORKS	32	16	35	5	24	16	T	-1	T	.9	56	.6	60	92	76	0	7	0	0	
WILLISTON	43	27	51	19	35	21	T	-1	T	.4	30	.3	38	94	61	0	7	0	0	
OH AKRON-CANTON	36	20	44	12	28	2	.2	-3	.1	4.9	79	2.2	61	86	54	0	7	2	0	
CINCINNATI	48	24	57	13	36	5	T	-6	T	3.7	50	1.1	26	77	37	0	6	1	0	
CLEVELAND	36	21	43	16	29	2	.3	-2	.3	5.2	82	2.3	64	88	56	0	7	2	0	
COLUMBUS	42	23	49	13	32	4	.1	-5	0	4.0	62	1.2	32	82	46	0	6	2	0	

Based on 1951-80 normals.

Weather Data for the Week Ending February 14, 1987

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 DEC. 1	PCT. NORMAL SINCE DEC. 1	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	43	21	51	10	32	4	T	-0.5	T	3.9	65	1.1	31	86	47	0	7	1	0
TOLEDO	38	19	44	12	28	4	T	-0.4	T	3.8	70	1.9	68	88	53	0	7	1	0
YOUNGSTOWN	34	17	40	10	25	1	.2	-0.3	.2	5.5	84	2.1	55	91	56	0	7	2	0
OK OKLAHOMA CITY	63	39	72	27	51	11	.7	.4	.7	5.7	210	4.6	307	88	41	0	1	1	1
TULSA	64	37	72	25	51	11	.1	-0.3	.1	4.2	106	3.2	152	85	36	0	1	1	0
OR ASTORIA	57	44	66	38	50	6	1.3	-0.7	.6	20.6	76	13.2	86	94	61	0	0	5	1
BURNS	46	25	50	19	36	3	.6	.5	.4	2.2	135	1.9	271	71	49	0	6	4	0
MEDFORD	58	36	64	30	47	5	.5	.3	.4	5.6	70	4.9	107	97	49	0	1	3	1
PENDLETON	46	33	57	29	40	1	.5	.1	.1	2.6	66	1.8	78	97	70	0	5	3	0
PORTLAND	55	41	61	38	48	5	.8	-0.2	.4	13.1	89	8.8	106	93	56	0	0	4	0
SALEM	55	39	60	33	47	5	.9	-0.2	.4	13.8	83	10.0	105	98	63	0	0	5	0
PA ALLENTOWN	35	19	41	14	27	-2	.2	-0.6	.2	8.4	99	4.1	85	73	45	0	7	1	0
ERIE	31	17	41	13	24	0	.6	.1	.5	7.3	109	3.3	94	90	55	0	7	2	1
HARRISBURG	37	26	44	22	32	1	2.9	2.2	2.9	11.5	153	6.6	153	71	35	0	7	2	1
PHILADELPHIA	37	23	47	16	30	-2	.3	-0.4	.3	10.9	136	4.9	109	81	39	0	7	2	0
PITTSBURGH	38	21	45	13	29	1	.4	-0.2	.3	6.1	93	2.6	65	70	43	0	7	3	0
SCRANTON	31	14	37	6	22	-3	.2	-0.3	.2	4.9	85	2.9	88	82	46	0	7	1	0
RI PROVIDENCE	34	15	39	1	24	-4	.3	-0.6	.3	13.1	127	5.0	85	69	39	0	7	1	0
SC CHARLESTON	64	36	74	27	50	1	0	-0.8	0	13.3	166	8.1	165	78	27	0	2	0	0
COLUMBIA	65	32	75	20	48	2	0	-1.0	0	11.5	117	8.9	141	78	17	0	5	0	0
FLORENCE	64	31	73	22	48	1	T	-0.8	T	9.3	114	6.0	115	72	21	0	4	0	0
GREENVILLE	62	30	75	18	46	3	.2	-0.9	.2	9.6	94	5.5	87	70	20	0	4	1	0
SD ABERDEEN	43	18	58	13	31	16	T	-0.1	T	.1	7	.1	13	94	48	0	7	0	0
HURON	48	20	64	16	34	17	0	-0.2	0	.2	16	.2	25	90	42	0	7	0	0
RAPID CITY	54	26	64	22	40	15	.2	0	.2	.5	44	.5	71	86	38	0	6	1	0
SIoux FALLS	47	21	58	17	34	16	T	-0.2	T	.2	9	.2	22	90	42	0	7	0	0
TN CHATTANOOGA	58	30	70	17	44	3	.5	-0.7	.5	12.6	100	7.8	105	83	29	0	4	1	0
KNOXVILLE	53	26	64	14	40	-1	.4	-0.6	.4	9.5	85	5.4	82	85	33	0	6	1	0
MEMPHIS	61	38	71	23	50	7	.3	-0.8	.3	6.7	58	2.8	42	87	40	0	2	1	0
NASHVILLE	55	30	65	18	43	3	.2	-0.8	.2	5.3	48	2.0	31	83	33	0	5	1	0
TX ABILENE	69	45	74	28	57	10	.1	-0.2	.1	4.2	180	2.2	147	87	41	0	1	1	0
AMARILLO	65	34	72	25	49	11	.1	-0.1	.1	2.0	163	1.4	200	82	25	0	2	2	0
AUSTIN	73	50	81	40	61	9	T	-0.7	T	6.7	137	-1.0	34	91	45	0	0	1	0
BEAUMONT	73	47	78	38	60	6	0	-1.0	0	17.9	167	8.3	136	94	44	0	0	0	0
BROWNSVILLE	77	54	80	45	65	3	0	-0.4	0	6.1	188	3.7	176	98	54	0	0	0	0
CORPUS CHRISTI	75	52	81	43	64	5	0	-0.4	0	8.1	210	3.6	144	98	53	0	0	0	0
DEL RIO	68	49	74	40	59	4	T	-0.3	T	5.1	334	2.7	270	92	83	0	0	0	0
EL PASO	70	36	73	23	53	5	T	-0.1	T	1.7	172	.3	50	71	22	0	3	0	0
FORT WORTH	68	44	75	32	56	9	.2	-0.3	.2	4.4	103	2.0	77	92	46	0	1	1	0
GALVESTON	69	54	76	46	62	7	0	-0.6	0	8.1	103	4.0	95	88	54	0	0	0	0
HOUSTON	74	46	80	34	60	7	T	-0.8	T	8.4	98	2.6	53	93	42	0	0	0	0
LUBBOCK	68	36	78	24	52	10	.1	-0.1	.1	2.1	197	.8	114	87	28	0	2	1	0
MIDLAND	71	37	78	26	54	7	0	-0.1	0	4.3	370	1.0	143	96	29	0	2	0	0
SAN ANGELO	70	42	76	29	56	7	0	-0.2	0	6.5	385	4.1	373	92	43	0	2	0	0
SAN ANTONIO	73	51	80	36	62	8	.3	-0.2	.3	9.5	242	2.4	96	92	44	0	0	1	0
VICTORIA	75	49	78	42	62	6	0	-0.6	0	7.0	135	2.7	87	96	47	0	0	0	0
WACO	71	45	77	33	58	8	.1	-0.4	.1	5.2	111	1.7	63	93	48	0	0	1	0
WICHITA FALLS	68	41	74	27	55	10	.2	0	.2	4.2	163	3.3	236	91	42	0	1	1	0
UT BLANDING	50	30	56	28	40	8	.6	.4	.5	2.5	80	1.9	100	93	53	0	6	4	0
CEDAR CITY	53	32	55	26	42	9	.4	.2	.1	1.5	89	1.0	100	91	44	0	4	5	0
SALT LAKE CITY	48	30	58	23	39	6	1.1	.7	.6	2.8	83	2.7	135	91	58	0	5	3	1
VT BURLINGTON	21	-4	38	-19	8	-9	.4	-0.1	.2	3.7	73	2.4	89	82	39	0	7	4	0
VA NORFOLK	51	29	59	26	40	0	.2	-0.5	.2	14.0	164	10.2	192	83	33	0	6	3	0
RICHMOND	51	27	61	23	39	1	.1	-0.7	.1	10.8	132	5.6	117	77	30	0	6	1	0
ROANOKE	51	26	60	20	38	1	T	-0.7	T	10.1	138	4.6	107	67	31	0	6	2	0
WA COLVILLE	42	30	47	28	36	6	.2	-0.2	.2	3.6	66	2.1	70	98	81	0	6	1	0
QUILLAYUTE	54	43	62	36	48	6	2.8	-0.3	1.0	31.2	83	18.8	88	96	71	0	0	7	2
SEATTLE-TACOMA	59	44	64	40	51	9	.5	-0.6	.3	11.3	77	7.6	92	93	45	0	0	4	0
SPOKANE	47	29	50	25	38	6	.1	-0.4	0	3.1	53	2.2	65	99	63	0	7	2	0
YAKIMA	48	31	55	27	39	4	.2	-0.1	.1	2.5	79	1.6	84	97	62	0	5	2	0
WV BECKLEY	41	21	48	10	31	-1	.7	-0.1	.3	6.7	81	3.9	78	85	42	0	6	4	0
CHARLESTON	46	25	55	16	35	1	.4	-0.4	.2	7.6	92	3.7	74	82	39	0	6	3	0
HUNTINGTON	47	25	57	15	36	1	.1	-0.6	.1	6.3	81	2.7	59	76	39	0	6	2	0
PARKERSBURG	43	23	52	17	33	1	T	-0.8	T	5.8	72	1.8	35	78	39	0	6	0	0
WI GREEN BAY	36	15	43	6	26	9	T	-0.3	T	1.0	31	.5	29	94	54	0	7	0	0
LA CROSSE	41	20	44	13	30	12	T	-0.2	T	1.5	60	1.1	79	88	47	0	7	0	0
MADISON	41	17	47	9	29	10	T	-0.2	T	1.4	45	.7	47	89	47	0	7	0	0
MILWAUKEE	40	23	45	11	31	9	T	-0.3	T	2.3	55	1.2	55	87	50	0	7	1	0
WAUSAU	34	14	41	5	24	9	T	-0.2	T	1.1	40	.6	43	84	43	0	7	0	0
WY CASPER	50	30	52	22	40	13	.3	.2	.3	2.4	183	2.1	263	82	43	0	5	1	0
CHEYENNE	52	27	63	24	39	10	.1	.1	.1	.5	57	.3	50	78	29	0	7	1	0
LANDER	45	27	50	23	36	11	.3	.2	.3	1.3	103	1.1	138	85	47	0	7	1	0
SHERIDAN	55	29	60	26	42	16	.1	-0.1	.1	1.0	58	.9	82	89	35	0	7	1	0
PR SAN JUAN	84	72	87	70	78	2	.8	.3	.7	5.2	61	2.1	51	90	75	0	0	3	1

Based on 1951-80 normals.

Heating Degree Day Summary Table

CLIMATE ANALYSIS CENTER-NMC-NWS-NOAA
ASSESSMENT AND INFORMATION SERVICES CENTER-NHSDIS-NOAA

LAST DATE OF DATA COLLECTION PERIOD IS 2-14-1987
ACCUMULATIONS ARE FROM JULY 1
** = NORMAL LESS THAN 100 OR RATIO INCALCULABLE

Table with columns: STATE CITY, CALL WEEK, WEEK WEEK, CUM CUM CUM CUM CUM, DEV DEV DEV DEV DEV, FROM FROM FROM FROM FROM, NORM L YR, PRCT PRCT. Lists 100+ cities and their heating degree day data.

National Agricultural Summary

February 9 to 16, 1987

HIGHLIGHTS: Warm weather melted most snow cover in the northern Rockies, central and northern Great Plains, and southern Corn Belt, leaving winter wheat vulnerable to freeze damage. The warm weather promoted growth. Fruit tree pruning was active throughout the Nation. Peaches, nectarines, almonds, and apricots were blooming. Soil moisture was mostly adequate, but some areas were dry in the northern and central Plains. Livestock was mostly good.

SMALL GRAINS: Small grains and wheat were good to fair. Warm temperatures melted most of the snow cover in the central and northern Great Plains, northern Rockies, and southern Corn Belt, leaving wheat and small grains susceptible to winter freeze damage. The warm temperatures promoted growth, but some areas lacked sufficient topsoil moisture. However, precipitation replenished surface moisture for wheat in western Kansas. Wheat fertilization was underway in Arkansas. Wheat was jointing in the southeastern areas of the State. In Colorado and Georgia, wheat was mostly good. Georgia's small grains were topdressed. Winter wheat was greening in many areas of Montana, but the crop is quite vulnerable to wind and freeze damage. Ohio's winter wheat was exposed to cold and wind late in the week. Temperate weather encouraged wheat growth and greening in Oklahoma. Late planted wheat was not up to stand in some areas. Some marginal wheat fields were replanted to oats and barley. Small grains grew rapidly in most areas of Texas. Topdressing continued in most areas. Jointing and leafrust were becoming more prevalent in the Blacklands. Planting was virtually completed in Arizona and most fields were up to stand. Rain improved small grain condition in California. Dryland small grains were stressed in western Riverside County; producers were irrigating where possible. Farmers applied small grain weed controls. In Oregon wheat was good but suffered some erosion damage in eastern areas.

COTTON: Cotton harvest reached 90 percent completion in Oklahoma. Rain stalled harvest late in the week, while some fields were abandoned. Cotton harvest progressed well in the High Plains, but most fields were too wet to support equipment in the Low Plains. Harvest was drawing to a close in Texas at 96% completion. Cotton land preparation continued in Arizona and California.

OTHER CROPS: Sugarbeet harvest and alfalfa seeding progressed as the weather permitted in California. Preplant irrigating, fertilizing, and weed control continued for spring field crops. Muddy fields limited outside activity in Indiana. Fields were plowed and manure was spread where conditions

permitted. The mild weather allowed Iowa's farmers to begin 1987 cropland tillage. Rain and snow halted plowing in Kansas. Land preparation was active in the Southeast.

Tobacco bed preparation continued in the Flue-cured belt. Georgia's tobacco plants were fair to good. In Virginia dark fire-cured tobacco marketing was active.

FRUIT AND NUTS: Fruit tree pruning was active throughout most of the Nation. The cold may inhibit fruit tree budding in Arkansas. Washington's fruit producers were concerned that fruit trees may break dormancy early because of the warm weather. Dormant fruit tree practices neared completion in California. Early apricots, nectarines, and peaches bloomed. Grapefruit, lemon, navel orange, and tangelo harvests progressed well. Early table grape buds began opening. Citrus harvest moved ahead in Arizona. Texas peach trees were budding and blooming in many areas, about 2 weeks ahead of schedule. Citrus harvest slowed. Cool temperatures held back new citrus tree growth in Florida. Early orange harvest slowed, but grapefruit movement increased. Temple orange harvest was active in all areas, while tangelo harvest neared completion.

VEGETABLES: Scattered frost hit Florida's central and southwest vegetable producing areas. Crop damage was minimal, but plant growth and development slowed. Moisture was mostly adequate. Winter vegetable harvest was active. Snapbeans, cabbage, carrots, celery, lettuce, peppers, and tomatoes were volume leaders. Good supplies of sweet corn, eggplant, escarole, potatoes, radishes, and squash were available. In the Rio Grande Valley carrot, cabbage, and other vegetable harvest continued as the weather permitted. Rain slowed melon planting. Onion harvest neared completion. Broccoli, spinach, carrots, cabbage, and onion sets were harvested in the San Antonio-Winter Garden area. Seasonal packing of winter vegetables continued in Arizona. Lettuce, cauliflower, broccoli, asparagus, and mixed vegetables were shipped. Spring vegetable planting progressed (including lettuce, watermelons, cantaloups, honeydews, mixed melons, and potatoes). California vegetable harvest consisted mostly of broccoli, artichokes, asparagus, carrots, cauliflower, celery, and lettuce. Spring planted lettuce was progressing well at Westside. Young plants were thinned and treated with fungicide.

PASTURES AND LIVESTOCK: Pastures were mostly fair. In Arkansas, pastures were greening. Livestock was mostly good. The warm weather was ideal for calving, lambing, and farrowing.

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 NASS State Statistical Offices in cooperation with the National Weather Service.

ALABAMA: Rainfall totals generally 1.00 in. statewide; 2.00 in. few locations. Temperatures averaged 3 to 5° above normal.

Soil moisture adequate to surplus. Main farm activities included routine care of livestock, poultry; fieldwork when weather permitted.

ARIZONA: Partly cloudy skies, mild temperatures dominated weather pattern. Series of weak disturbances moved rapidly across State, precipitation light, snow 8,000 ft. Disturbance on 13th produced rainfall of 0.02 in. Snow level to 7,000 ft. Sunny skies 14th, afternoon temperatures 5 to 12° lower than 13th. Strong gusty winds reaching around 40 mph Winslow, Douglas, Safford, on 14th. Average temperatures 6 to 13° above seasonal normals.

Wheat, barley stands established 98%, 98% 1986, 98% avg. Planting virtually completed. Crops jointing. Small grains good. Irrigation, fertilization performed. Cotton land preparation continued. Light alfalfa cutting performed. Crop recovering from January frost. Aphid, weevil populations increased. Green chopping continued. Fields breaking out of dormancy southeast. Land preparation moved ahead for corn west. Seasonal packing of winter vegetables continued. Crops shipped included lettuce, cauliflower, broccoli, asparagus, mixed vegetables. Spring vegetable planting moved ahead, including lettuce, watermelons, cantaloups, honeydews, mixed melons, potatoes. Established lettuce stands thinned, sidedressed. Citrus harvests moved ahead. Fruit, nut trees pruned. Pecans shipped.

ARKANSAS: Warm week, cooling trend set in by weeks end. Rain limited to end of week all sections. Temperature extremes 14°; 78°. Rainfall 0.05 to 3.50 in.

Wheat fertilization underway. Limited jointing southeast. Rust not a problem, cold weather will help limit overwintering. Harvest of all crops complete. Pastures starting to green. Cattle good. Cold weather may hold back fruit budding. Rainfall relieved moisture stress.

CALIFORNIA: Mild southwest flow over State brought above normal temperatures, rainfall to region. Only area dry southeast desert. Warm, very moist storm with subtropical moisture dropped locally heavy amounts of rain 13th, 14th. Weaker storm moved over area late 14th but brought heavy snow to mountains.

Significant rain slowed field activities most of State. Rain improved small grain condition. Dryland grain western Riverside County stressed, some irrigating where possible. Some green chopping small grains. Weed control small grains, alfalfa. Sugarbeet harvest, alfalfa seeding progressed, weather permitted. Preplant irrigation, fertilization, weed control continued spring crop fields. Dormant practices neared completion. Early table grape buds broke. Early apricots, nectarines, peaches bloomed. More almond varieties bloomed. Harvest continued for grapefruit, lemons, Navel oranges, tangelos. Artichokes moderate, variable quality; Salinas. Asparagus harvest increased desert; heavy weights, variable quality. Cutting continued south coast. Strawberry harvest continued south coast, light volume. Broccoli light, variable quality Salinas; moderate, good quality Santa Maria. Harvest, Westside, continued with reduced volume; desert

area harvest heavy, good quality. Carrot digging active San Joaquin Valley; increased desert, good quality. Cauliflower moderate, good quality; Santa Maria. Movement slowed by light demand desert, but quality good. Plantings Westside plagued by mice. Celery harvest continued active, south coast. Lettuce packing continued slowly Palo Verde Valley; variable quality, light demand. Spring acreage doing very well Westside. Young plants thinned, treated with fungicide. Packing fall potatoes Tulelake-Butte Valley continued steady, slightly behind last year. Demand light, prices stable. Digging winter potatoes continued Kern, Riverside Counties. Processing tomato plantings progressed Sacramento, San Joaquin Valleys. Birds attacked emerged plants, Westside. Rains continued improve pasture, range conditions. More rains needed to continue grass growth, replenish stock water supplies. Calving, lambing tapering off northern districts. Sheep continued grazing dormant alfalfa fields. Bees placed in almond orchards for pollination.

COLORADO: Temperatures 8 to 12° above normal. Precipitation heaviest northern half. Amounts to 0.80 in. lower elevations, snow higher elevations. Livestock good. Winter wheat good.

FLORIDA: High pressure brought cold from midwest, coldest temperature readings resulted in some areas. Temperatures averaged 3 to 8° below normal. Southerly winds over weekend brought warming trend, with rainfall less than 0.20 in. over north, west central.

Soil moisture adequate south central, surplus most north, Panhandle areas. Land preparation delayed by wet soils. Small grains good; later than normal. Sugarcane harvest active. Pastures fair to good except permanent mostly poor from frost, flooding. Cattle fair to good. Dry, windy, cool citrus weather; cool temperatures holding back new growth, good fruit sizes, droppage not excessive. Early orange harvest slowed, grapefruit movement increased, Temple harvest active all areas, tangelo harvest almost complete. Cool nights, mild days with little or no rain over vegetable producing areas. Some scattered frost central, southwest. No damage to crops. Plant growth, development slowed. Moisture mostly adequate. Winds generally light to moderate. Volume leaders: Snap beans, cabbage, carrots, celery, lettuce, peppers, tomatoes. Good supplies: Sweet corn, eggplant, escarole, potatoes, radishes, squash available.

GEORGIA: Temperatures 3° above normal. Low teens, 20s morning of 10th. Blairsville 10°. High 70s 13th, 14th. Rainfall totals 1.00 in. or less. Greatest amounts south central, southeast.

Soil moisture adequate north, surplus other areas. Main activities land preparation, tobacco bed preparation, small grain topdressing. Small grains poor to good, mostly good. Pastures poor to good, mostly fair. Cattle poor to good, mostly fair. Tobacco fair to good. Hogs fair to good, mostly good.

HAWAII: Conditions variable. Shower bands passed through islands caused sporadic, light rainfall. Northeasterly winds 5 to 15 mph. Temperatures ranged low 60s to mid 80s. Rainfall ranged none to 3.90 in.

Days suitable for fieldwork 7.0. Weather mostly favorable for crop development. Banana harvesting

active, orchards fair to good. Papaya harvesting down slightly, spray programs controlling insects, diseases. Vegetables fair to good.

IDAHO: Dry week, precipitation below normal. Temperatures above normal.

Farm activity consists of livestock management, farm planning, preparing equipment. Livestock good, calving, lambing. Hay, roughage supplies adequate to surplus.

ILLINOIS: Temperatures averaged 4 to 10° above normal north, 2 to 6° above normal south. Precipitation none to 0.42 in.

Winter wheat mostly good to fair. Livestock mostly good.

INDIANA: Temperatures averaged 2 to 9° above normal. Lows averaged upper teens to low 30s, highs averaged mid 30s north to 50° south. Precipitation light. None north, central; 0.50 in. south.

Muddy fields limited outside activities. Plowing, topdressing wheat, spreading manure where conditions permitted. Other activities; working taxes, attending meetings, hauling grain, readying equipment, and caring for livestock.

IOWA: Warm, dry. Temperatures averaged 12° above normal; warmest 11th, highs 50s northeast to low 60s southwest. Lows mostly 20s. Little, no precipitation.

Mild winter allowed farmers to start 1987 tillage. Livestock mostly good, very little weather stress.

KANSAS: Temperatures averaged 43 to 47° ranging 8 to 10° above normal. Precipitation 0.25 in. southeast, very little elsewhere.

Rain, snow over weekend stopped field tillage. Precipitation welcome for wheat, replenished surface moisture some western areas which became dry. Yards, corrals muddy.

KENTUCKY: Unseasonably mild weather continued. Temperatures averaged from near normal to 7° above normal. Lows 20s to 30°, highs averaged mid 50s. Rainfall sparse. Only measurable rainfall 14th, totals few hundredths to 0.75 in.

Some plowing, early season fieldwork including plantbed preparation. Cold over weekend reminded us, spring still a month away. Livestock wintered very well; current cold, damp days hard on newborn calves, pigs.

LOUISIANA: Temperature 2 to 7° above normal. Temperature extremes 26°; 79°. Rainfall limited to western portion of State with amounts of up to 1.91 in.

Activities: Winter chores, caring for livestock, preparing for spring planting.

MARYLAND & DELAWARE: Maryland: Average temperature 35°, normal 34°; lowest temperature 8°, highest temperature 56°. Precipitation averaged 0.11 in.

Main farm activity caring for livestock.

Delaware: Average temperature 32°, normal 34°. Precipitation averaged 0.36 in.

Main farm activity caring for livestock.

MICHIGAN: Temperatures ranged 2 to 6° above normal. Temperature extremes -21°; 45°. Precipitation ranged from 0.03 to 0.79 in. across State.

Upper Peninsula, northern lower Peninsula snow covered. Most snow cover gone southern lower Peninsula. Winter wheat susceptible to cold temperatures southern lower Peninsula. Activities: Cutting wood, spreading manure, preparing taxes, attending meetings, pruning fruit trees, general

farm maintenance and equipment repair, marketing grain, potatoes, livestock. Livestock remained good. Lambing, calving, farrowing continued. Feed supplies adequate.

MINNESOTA: Temperatures averaged 10 to 17° above normal for State. Temperature extremes -3°; 58°. Precipitation averaged 0.04 to 0.21 in. below normal for State. Snowfall averaged 1 to 2 in. northern third of State trace or less elsewhere. Snow depth weeks end 2 to 16 in. northern third; trace or less elsewhere.

Manure hauling, corn stalk chopping. Livestock good to excellent. Limited pest problems due to mild weather.

MISSISSIPPI: Temperatures 5° above normal; extremes 17°; 78°. Warm dry weather throughout week.

Days suitable for fieldwork 2.5, 3.0 1986, 1.8 avg. Soil moisture adequate to surplus. Wheat fair.

MISSOURI: Temperatures ranged 6 to 10° above normal, warmest Bootheel. Precipitation over southern half, 0.50 in. southeast to 1.50 in. southwest. Dry northern half.

Farmers caring for livestock, planning spring work.

MONTANA: Temperatures above normal across State, 2° above northwest to 22° above northeast. Most of State rain, snow with amounts close to zero. Southwest averaged 0.10 in. with Butte near 0.24 in., West Yellowstone 0.20 in.

Winter wheat greening many locations. Snow cover gone. Crop vulnerable to wind, freeze damage. Calving, lambing conditions ideal. Grazing open. Hay supplies more than adequate.

NEBRASKA: Weekly average temperatures 10 to 15° above normal. Cold weather set in during weekend. Only significant amounts of precipitation reported Panhandle with 0.33 in. Temperature extremes 14°; 67°.

No snow cover. Some wheat greening, not widespread.

NEVADA: Jet stream over west coast brought several warm Pacific frontal systems most areas during week. Three separate systems produced high winds, rain, some snow. Sierra snowpack 3 to 5 ft. added snow. Most rain confined northern areas below 6,500 ft. Temperatures averaged 8 to 10° above normal.

Mostly dry fields eased livestock feeding operations. Above normal temperatures favorable newborn calves, lambs.

NEW ENGLAND: Average precipitation including rainfall, snowfall water equivalent; 0.50 to 0.75 in. coastal Maine, coastal Massachusetts; 0.25 to 0.50 in. northeastern Vermont, Rhode Island, Connecticut; trace to 0.25 in. interior Maine, New Hampshire, southern and western Vermont, central and western Massachusetts. Temperatures averaged below normal ranging from single digits near Canadian border to middle 20s southern coast.

Major farm activities: Moving crops from storage, tending livestock, repairing machinery.

NEW JERSEY: Temperatures below normal, averaged 21° north, 24° south, 27° coastal. Extremes -6°; 43°. Precipitation below normal, averaged 0.26 in. north, south; 0.56 in. coastal. Heaviest 24-hour total 0.81 in. on 9th, 10th. Heaviest 24-hour snowfall 8 in. on 9th, 10th. Depth of snow on ground 16th ranged from 5 to 10 in. north; 2 to 6 in. south.

Farmers cared for livestock, tended to winter chores.

NEW MEXICO: Temperatures averaged from 4 to 13° above normal entire State. Rain, snow received most areas except extreme south. Precipitation generally less than 0.25 in. except northern mountains up to 0.68 in.

Days suitable for fieldwork 5.5. Soil moisture 14% short, 43% adequate, 43% surplus; showed much improvement on eastside from recent storms. Barley, irrigated wheat, dryland wheat showed good growth from recent moisture, warm days. Lettuce showed good stands Mesilla Valley. Onion planting continued, planting sets to start this week. Cattle 33% fair, 50% good, 17% excellent. Sheep 40% fair, 60% good. Ranges vary from poor to excellent.

NEW YORK: Snow northern, western areas through 12th. Temperatures plummeted to well below normal late week with lows up to 34° below zero. Skies remained clear.

Producers attended to winter chores, bookkeeping.

NORTH CAROLINA: Temperatures near normal across State. Temperature extremes 11°; 74°. Precipitation none to 0.25 in. across State.

Days suitable for fieldwork 4.6. Soil moisture 5% short, 88% adequate, 7% surplus. Small grains fair to mostly good. Pasture 9% very poor, 14% poor, 46% fair, 30% good, 1% excellent. Hay, roughage supplies 25% short, 72% adequate, 3% surplus. Feed grain supplies 17% short, 76% adequate, 7% surplus. Major farm activities: Seeding, preparing tobacco plantbeds; tending livestock; topdressing small grains; land preparation; cutting firewood; repairing equipment; tax preparation; pruning fruit trees; spraying Christmas tree herbicides; general farm maintenance.

NORTH DAKOTA: Above normal temperatures continued. Temperatures averaged 12 to 18° above normal. Extremes from -8° northeast on 8th to 58° southwest 11th. Very light precipitation, ranging from trace most areas to 0.42 in. south central.

Above normal temperatures continued to aid fall seeded crops, livestock. Feed supplies adequate. Calving, lambing full swing many areas. Seed, fertilizer procurement top activity.

OHIO: Average high temperatures ranged from mid 30s to mid 40s. Average lows, low to mid 20s. Temperatures ranged from 50s to single digits. Precipitation mostly less than 0.10 in.

Snow cover absent statewide most of period. Winter wheat exposed to cold, wind late week. No significant livestock stress.

OKLAHOMA: Temperatures averaged 7° above normal central to 9° above normal north central, northeast, southern third. Precipitation averaged 0.20 in. west central to 0.68 in. Panhandle.

Temperate weather encouraged good wheat growth, greening. Some late planted wheat still not up to stand. Some marginal wheat fields replanted to oats, barley. Jointing should begin late February. Cotton 90% harvested, 100% 1986, 100% avg. Late week rain stalled harvest, some fields abandoned. Cattle good.

OREGON: Week mild, wet. Temperatures above average across State. Coast 7° above normal, remainder of State 4 to 5° above normal. Rainfall began on 10th southwest, progressed north. Up to 2.30 in. of rain at coast, high plateau area; 1.00 to 1.70 in. western valleys, north Cascades; less than 0.30 in. eastside.

Soil moisture mostly adequate, some coastal areas surplus, some north central areas short. Grain, other field crops beginning to grow, look good west. Wheat generally good, some erosion damage east. Good tree pruning season in orchards around

State. Weed, disease control practices applied to berries. Early soil preparation, seeding of vegetables Willamette Valley. Livestock mostly good. Ranges, pastures fair to good. Hay supplies lasting longer than normal with mild winter. Calving continued.

PENNSYLVANIA: Dry week, near normal temperatures. Average temperature 25°, 1° below normal. Temperature extremes 13°; 48°. Average precipitation 0.27 in., 0.36 in. below normal.

Activities: Grading potatoes; hauling manure; cutting firewood; machinery maintenance; caring for livestock.

PUERTO RICO: NO DATA AVAILABLE.

SOUTH CAROLINA: Temperatures averaged several degrees above normal, colder than usual weekend. No rainfall. Yearly rainfall totals above normal; isolated areas northwest slightly below normal.

Farm activities included topdressing small grain crops pruning fruit trees, caring for livestock, poultry, equipment maintenance, preparing tax records, farm meetings.

SOUTH DAKOTA: Average temperatures 13 to 19° above normal. Extremes 11°; 70°. Melted precipitation 0.52 in. Black Hills, 0.28 in. Belle Fourche. Precipitation 6 to 10 in. snow Black Hills. Total precipitation for year below normal Statewide.

Winter grains good. Livestock good, grazing open fields. Feeding livestock, attending meetings main agricultural activities.

TENNESSEE: Temperatures averaged much above normal; ranging from 58° Memphis, 43° Bristle. Extremes 14°; 71°. Statewide rainfall weekend 0.25 to 0.50 in. north, more than 1.00 in. south.

Farm chores, meetings, planning for spring fieldwork main activities. Livestock satisfactory. Feed supplies adequate.

TEXAS: Last week rather pleasant, warm daytime conditions. Low cloudiness fog developed central, south on 11th. Upper level disturbance West created scattered showers thunderstorms across Panhandle on 12th. By late evening showers developed Winter Garden area. Stronger system on 14th caused widespread showers thunderstorms. Few lingering showers persisted over eastern areas on 15th but, colder air moved into State as another high pressure ridge transported cold air southward. Above normal precipitation Panhandle, east on 12th, 14th. Elsewhere, rainfall ranged below normal across State. Little temperature differences along Coastal Bend, Lower Valley.

Crops: Cotton harvest Plains good progress most week. Fields Low Plains too wet. Cotton 96% harvested, 100% 1985, 100%. Small grains experienced good week because warmer temperatures. Growth rapidly increased most areas. Fields began growing Low Plains. Recent bad weather, heavy rains kept growth at minimum. Some oat fields Cross-Timbers need nitrogen. Leafrust increased Blacklands. Topdressing continued. Some fields beginning to joint. Grazing conditions improved. Topdressing nitrogen occurred central, east.

Commercial Vegetables: Rio Grande Valley, harvest carrots, cabbage, other vegetables continued weather permitted. Planting melons slowed by rains. Onion harvest neared, most fields made good progress. Citrus harvest slow. San Antonio - Winter Garden broccoli, spinach, carrots, cabbage, onion sets harvested. Peach trees continued bud, bloom many areas. Trees blooming about two weeks early.

Range and Pasture: Native pastures, ranges small grain pastures responded favorable warmer weather. Native pastures greening up, showed some growth. Winter grasses, weeds on ranges growing.

Small grains improved, growth improved grazing. Livestock excellent gains on wheat pastures. Some bloat occurred. Movement off wheat continued. Marketings steady. Goat shearing continued. Lambing, calving continued. New lambs lost to predators Hill County.

UTAH: Precipitation light. Maximum 0.26 in. extreme southwest. Temperature 8 to 12° above normal.

Snow cover light. Livestock feed adequate. Livestock generally good. Major farm activities: Care of livestock, building and equipment maintenance, tax accounting.

VIRGINIA: Near normal temperatures. Light precipitation. Temperature range 11 to 65°. Precipitation none many areas, maximum 0.30 in.

Days suitable for fieldwork 1.3. Topsoil moisture 65% adequate, 35% surplus. Small grains good to excellent. Began topdressing small grains with nitrogen. Some overseeding pastures. Livestock feeding active, feed supplies very tight some areas. Calving, lambing continued. Tobacco plantbed preparation. Marketed dark fire-cured tobacco. Some plowing, some fruit tree pruning. Tax work, meetings, equipment repair active.

WASHINGTON: Temperatures 1 to 10° above normal. Coldest 22°, warmest 64°. Light precipitation statewide. Decreasing snow cover.

Days suitable for fieldwork 4.6. Hay 90% adequate, 10% surplus. Soil moisture mostly adequate statewide. Winter wheat, barley continued to look good. Barnyards, livestock feeding areas muddy with daytime temperatures above freezing. Calving, lambing season underway. Fear of fruit trees breaking dormancy early due to warm spring weather.

WEST VIRGINIA: Temperatures averaged 32°, near normal northeast to 3° below normal north central. Extremes 1° Elkins; 59° Williamson. Precipitation below normal, average precipitation 0.28 in.

Soil moisture 6% short, 76% adequate, 18% surplus. Feed supplies 5% very short, 16% short, 79% adequate.

WISCONSIN: Temperatures again above normal, more normal end of week. Low -5°; high 54°. Snowfall trace to 2 in. Relatively dry. Average snow depth 2 in. Frost depth 11.2 in., 1 in. increase over last 2 weeks.

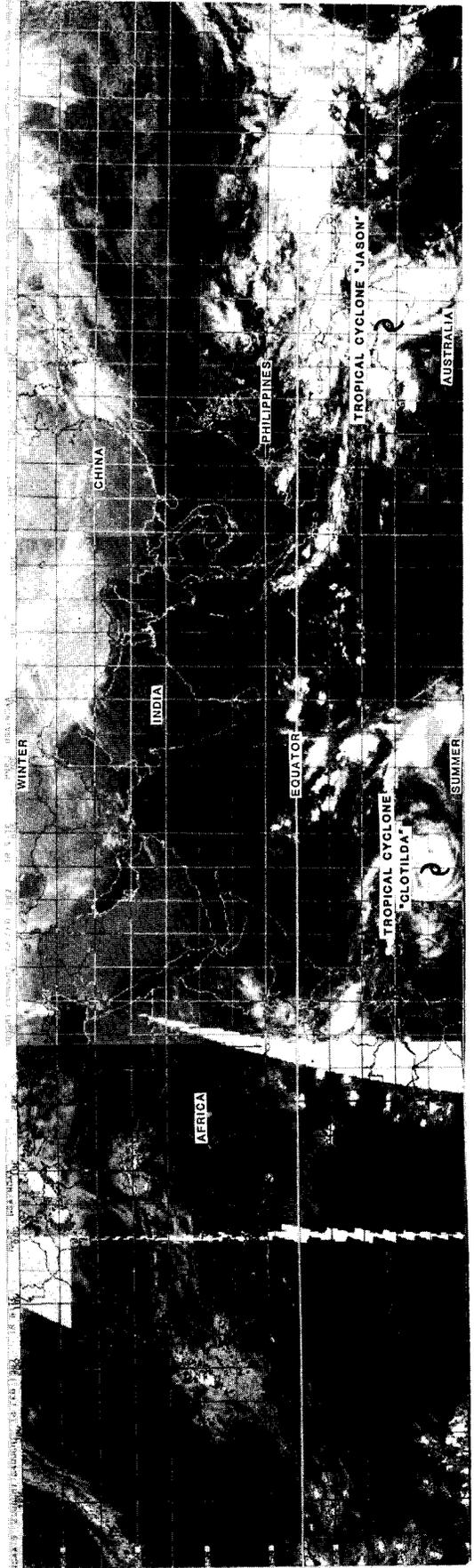
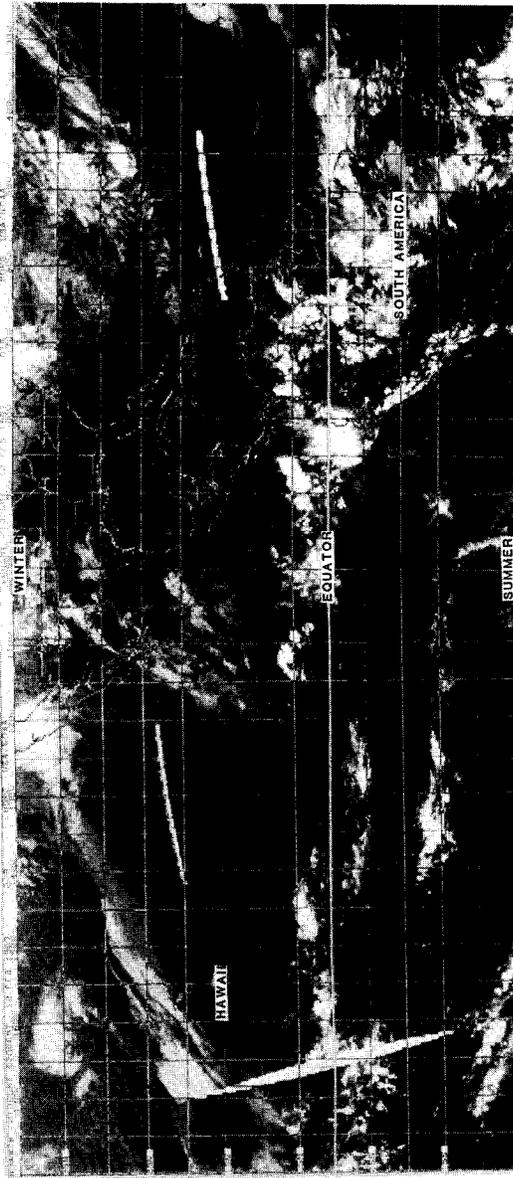
Soil moisture variable, drying central.

WYOMING: Temperatures well above seasonal normals. All areas precipitation well below normal.

Winter wheat fair to good. Additional moisture needed for good development. Land preparation started irrigated areas. Livestock good, supplemental feeding as needed. Hay supplies adequate. Early lambing, shearing underway.

Global Weather Satellite Image

February 12, 1987



International Weather and Crop Summary

February 8-14, 1987

HIGHLIGHTS:

UNITED STATES ... Warm weather melts most snow cover in the northern Rockies, central and northern Great Plains, and southern Corn Belt, leaving winter wheat vulnerable to freeze damage. The warm weather promotes growth.

WESTERN U.S.S.R. ... Gradual warming continues over the region.

EUROPE ... Above-normal temperatures cover winter grains. Widespread showers in England, France, and Spain favor winter grains.

SOUTH ASIA ... Scattered rain in wheat areas of northern Pakistan increases irrigation reserves. Dry weather in southern India promotes cotton harvesting and rice transplanting.

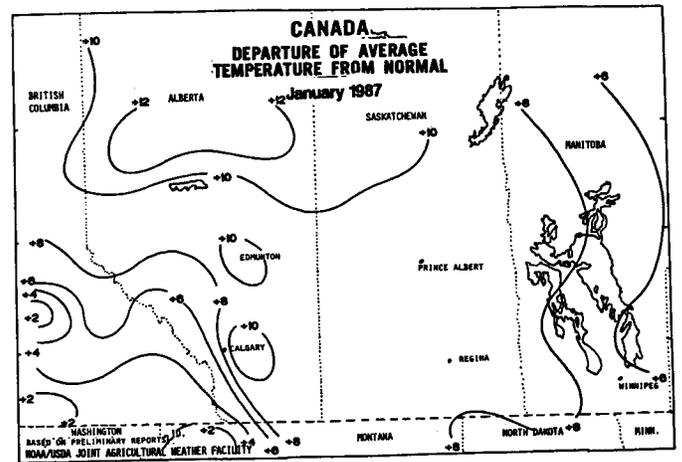
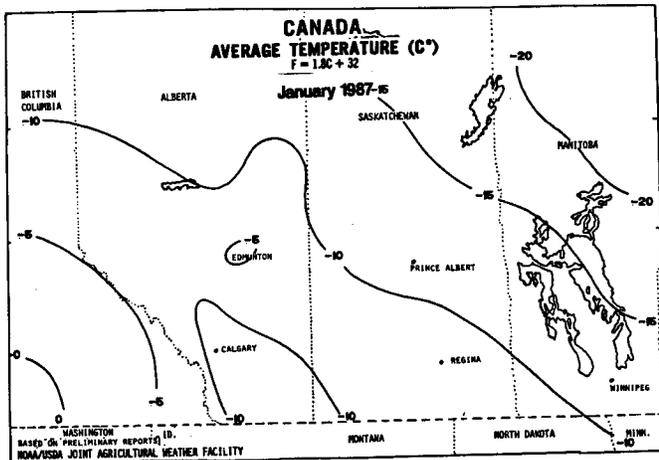
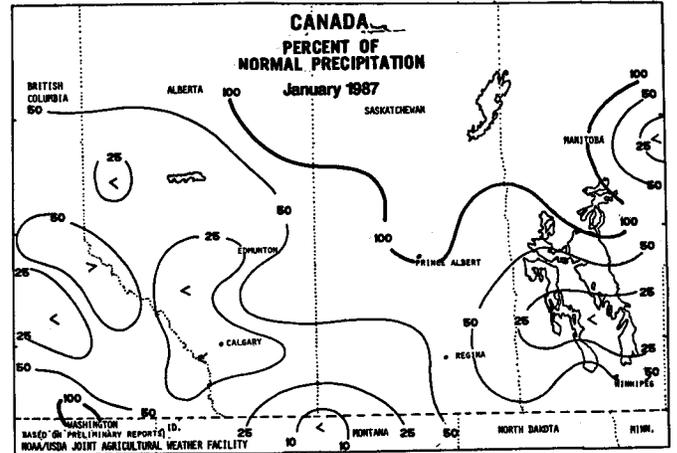
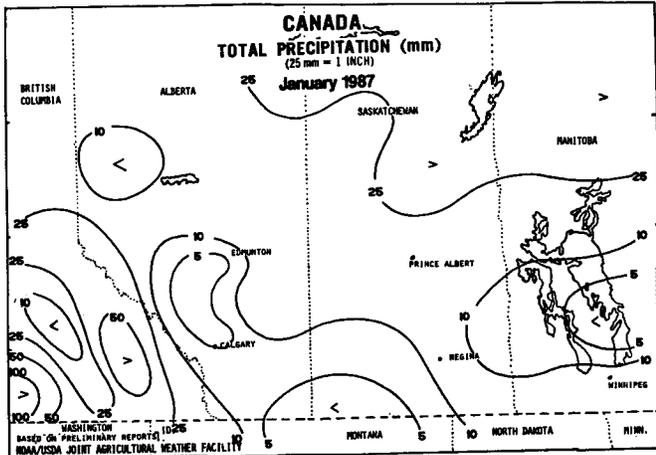
EASTERN ASIA ... Mild weather and light showers likely induce early wheat growth in central and southern areas of the North China Plain.

SOUTH AMERICA ... Dry weather returns to Argentina's crop areas while showers cover Brazil's soybean areas.

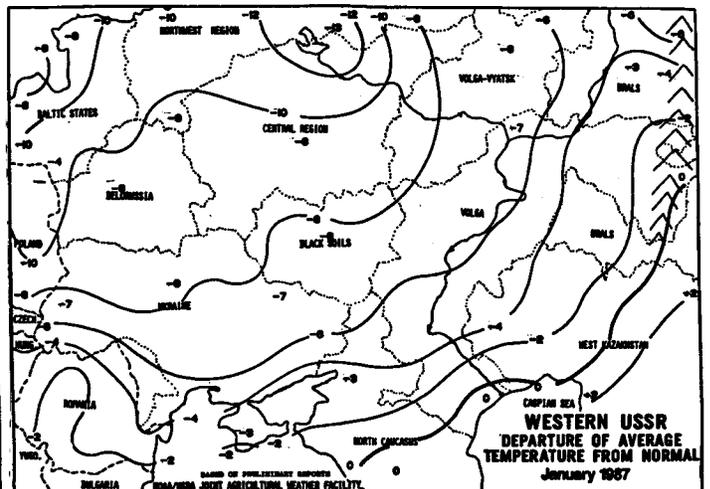
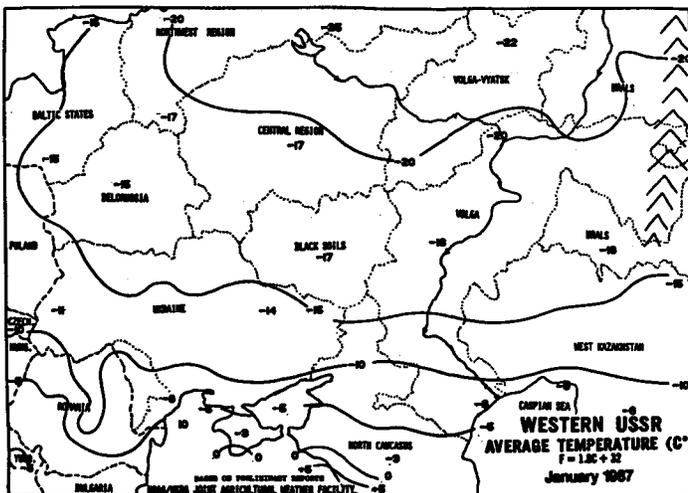
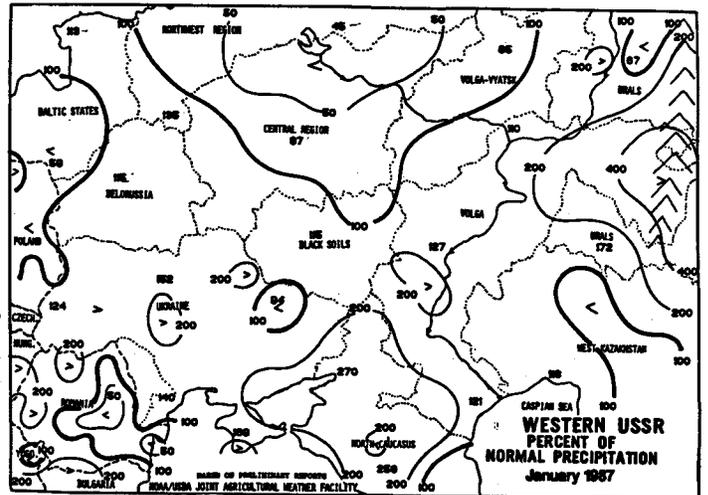
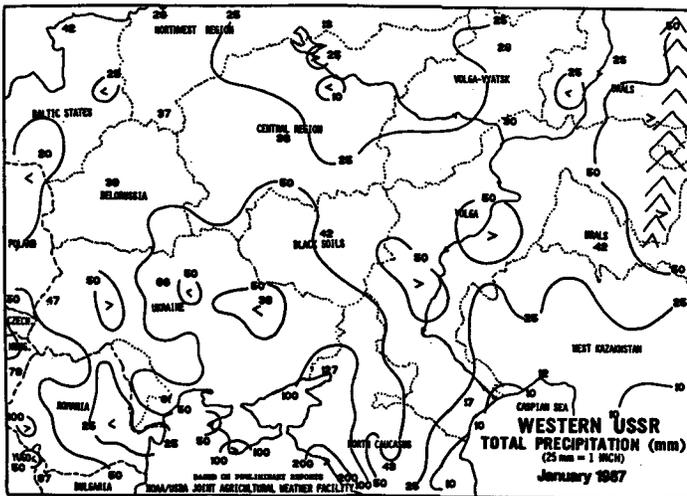
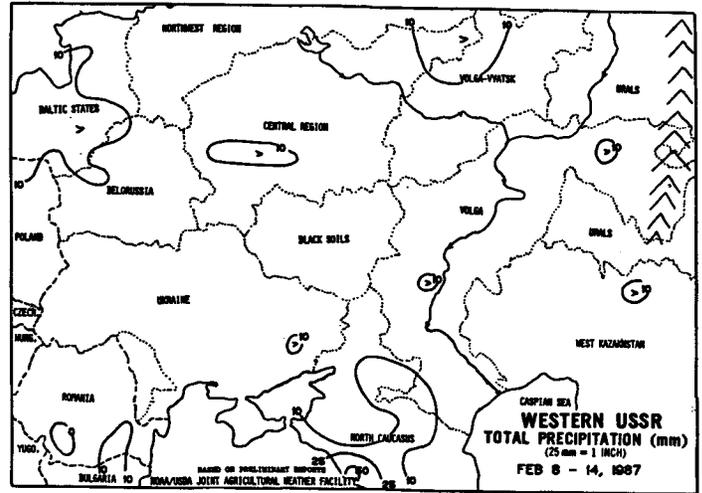
AUSTRALIA ... Dry, warm weather covers Queensland's summer crop areas. Below-normal rainfall persists in southern sugarcane areas.

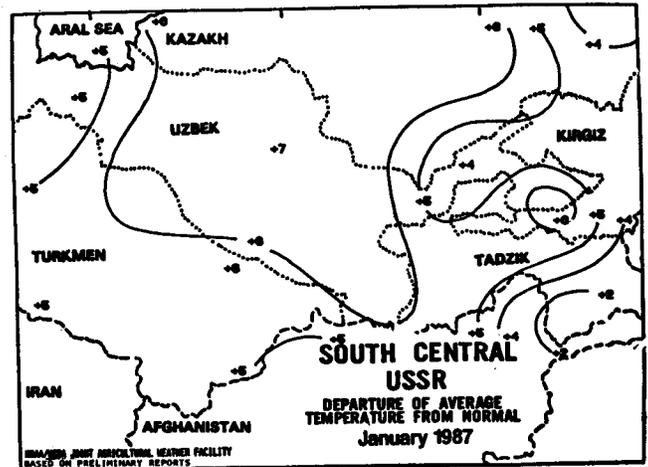
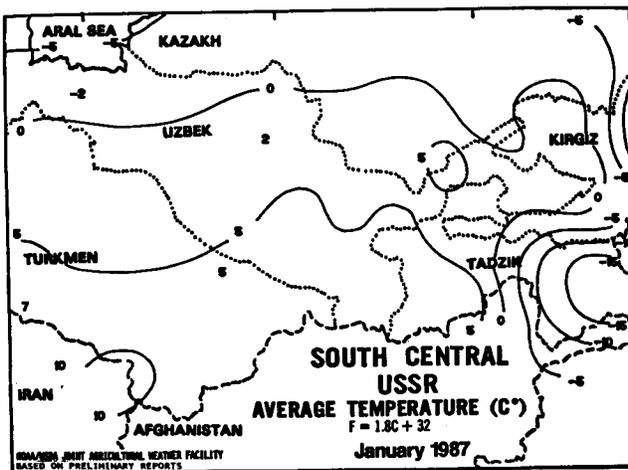
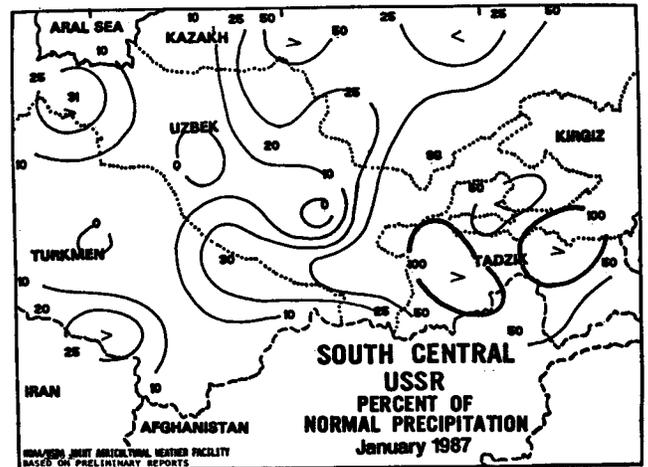
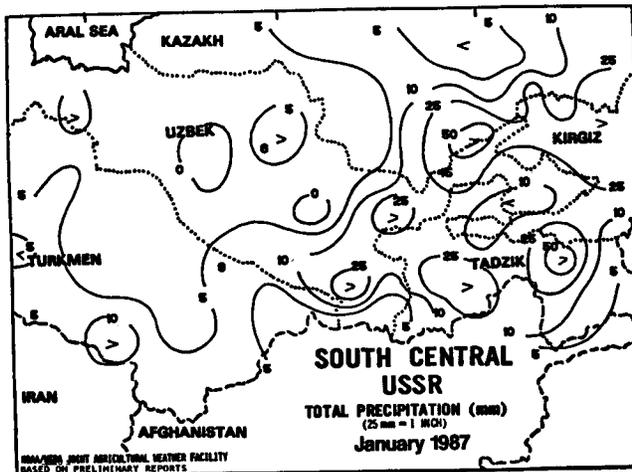
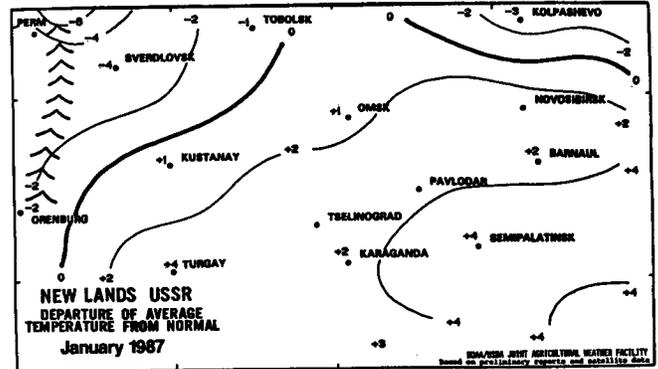
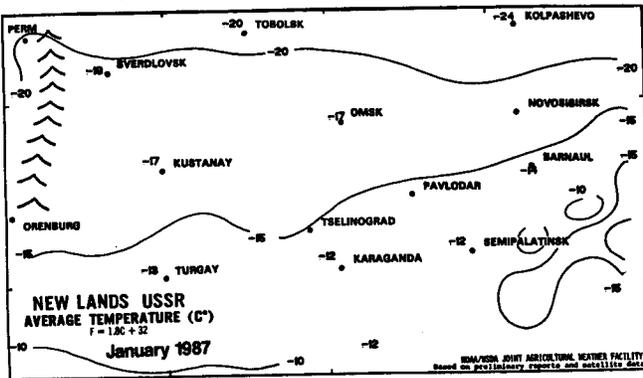
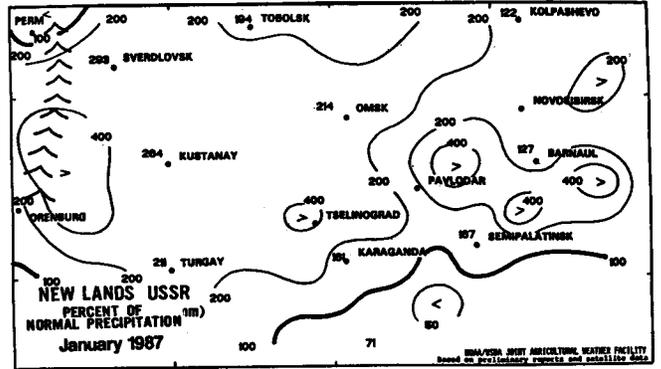
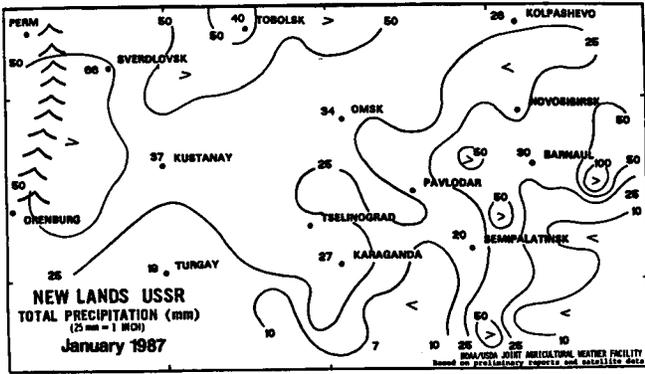
SOUTH AFRICA ... Minimal rain falls in the primary corn areas of eastern South Africa, but heavy showers cover the western Maize Triangle.

NORTHWESTERN AFRICA ... Widespread rain benefits wheat in the jointing stage.

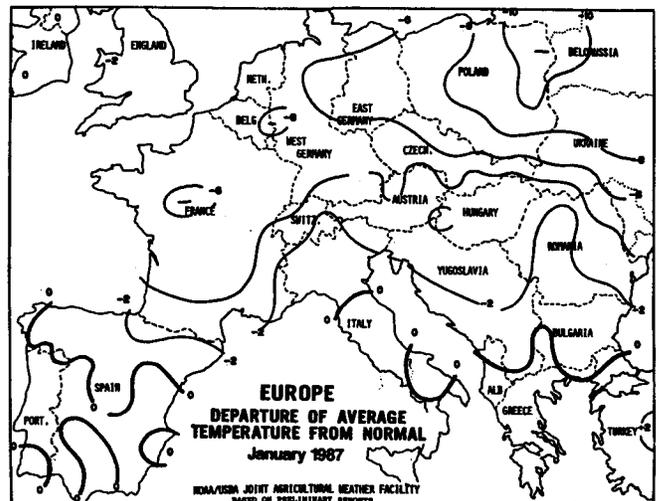
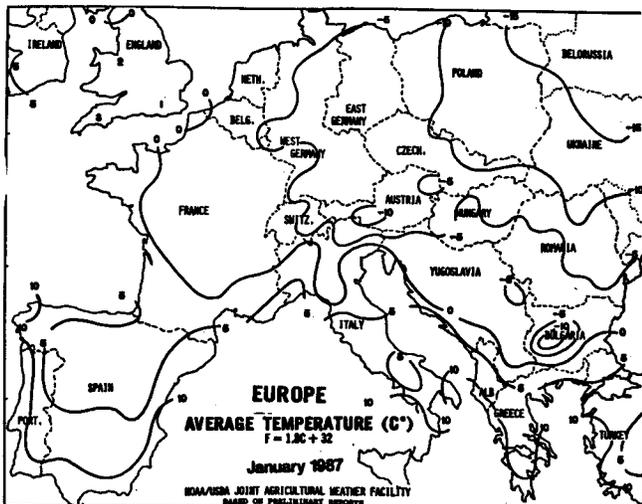
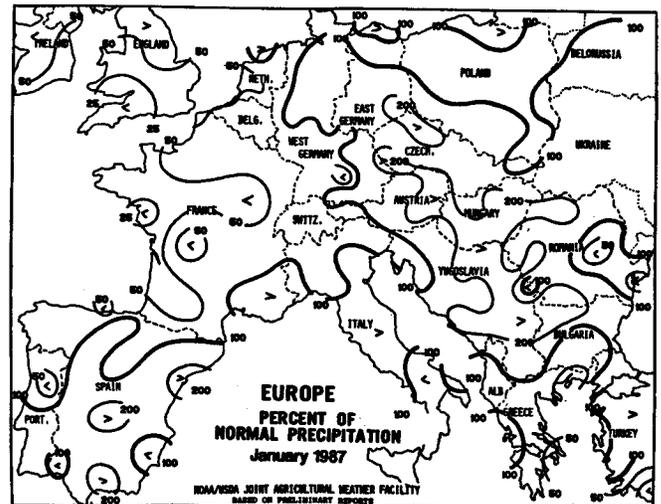
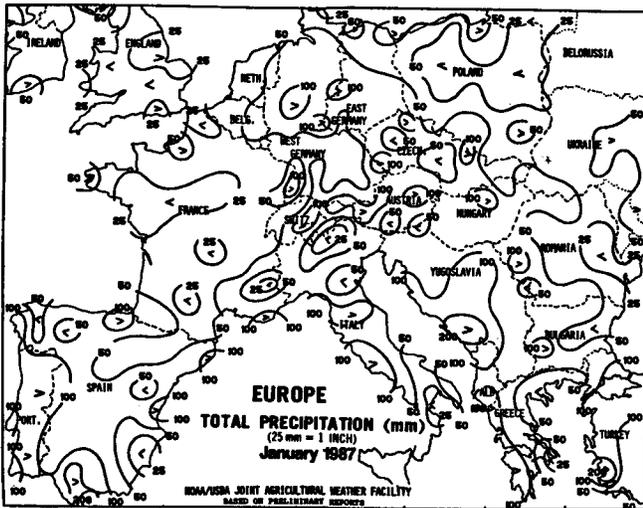
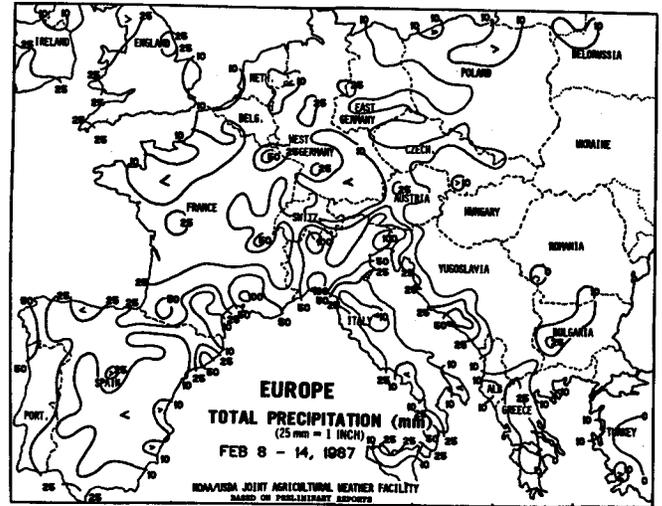


WESTERN U.S.S.R. ... Warming continued over the region. Maximum temperatures on some days in the Baltics and Belorussia, the Ukraine, and North Caucasus were 1 to 4 degrees C above freezing, slowly melting the snow cover. In addition, light precipitation, mainly in the form of freezing drizzle and light snow, covered most areas. In January, extreme cold covered winter grains in the Baltic States, Belorussia, the western Ukraine, the Central Region, and the Black Soils Region. Monthly average temperatures in these areas ranged from 8 to 10 degrees C below normal. January precipitation was above to much above normal over most winter grain areas, increasing moisture supplies for next spring's growth. The precipitation in the south was rain, sleet, and snow. While averaging below normal, temperatures in the south continued December's variable pattern, likely causing some crop damage due to ice crusting and frost heaving.

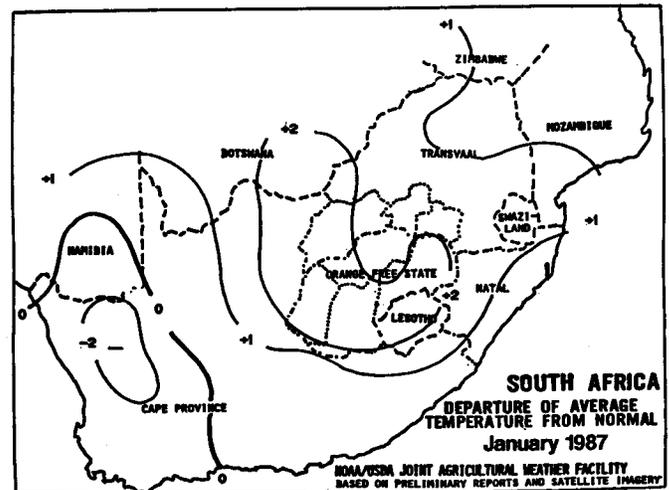
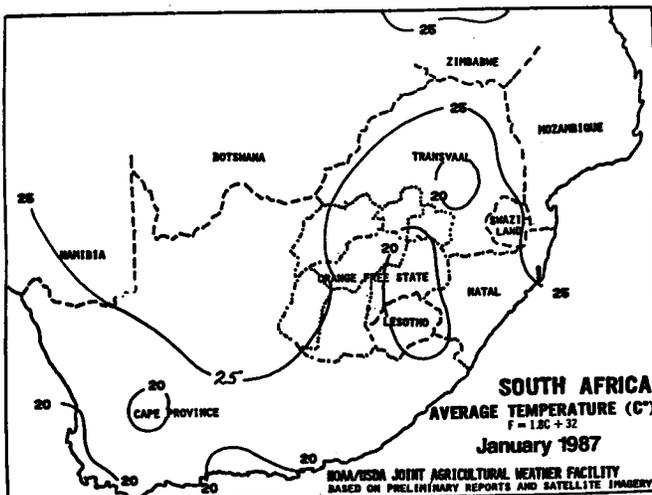
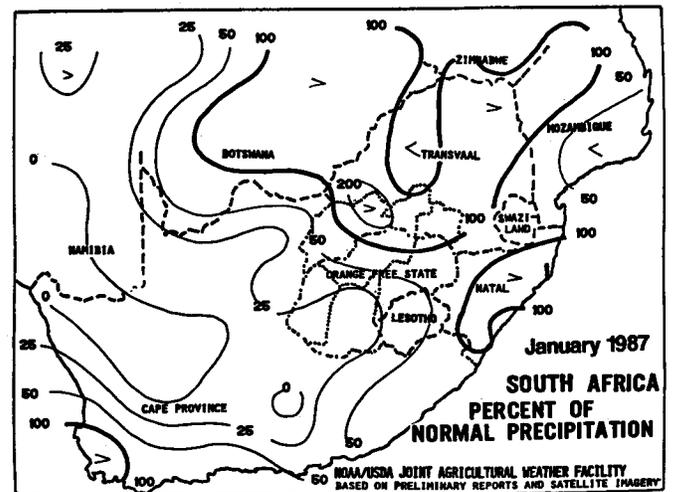
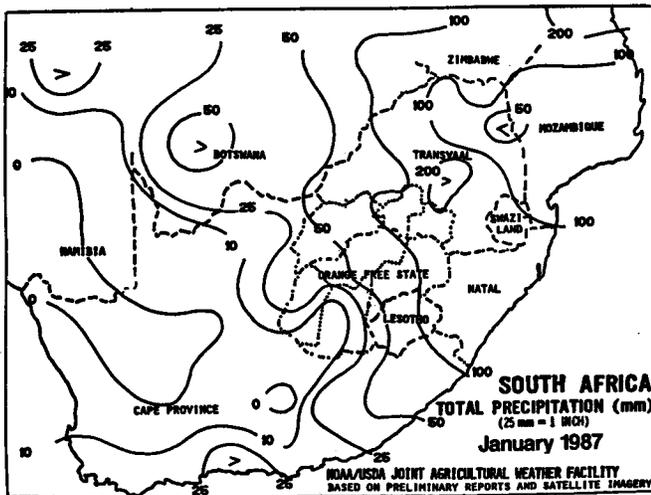
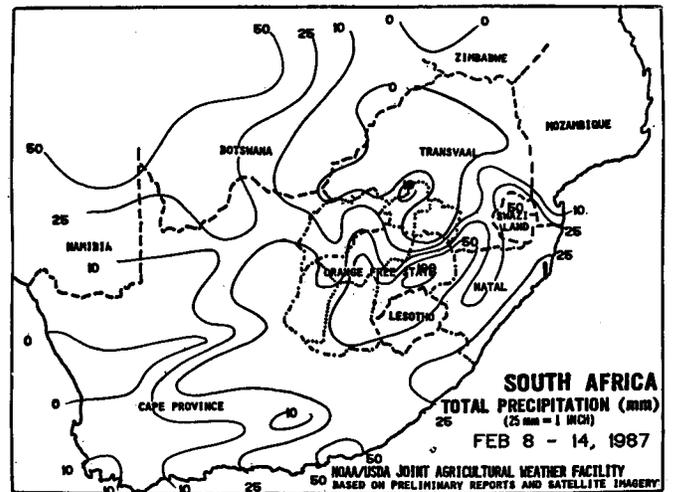


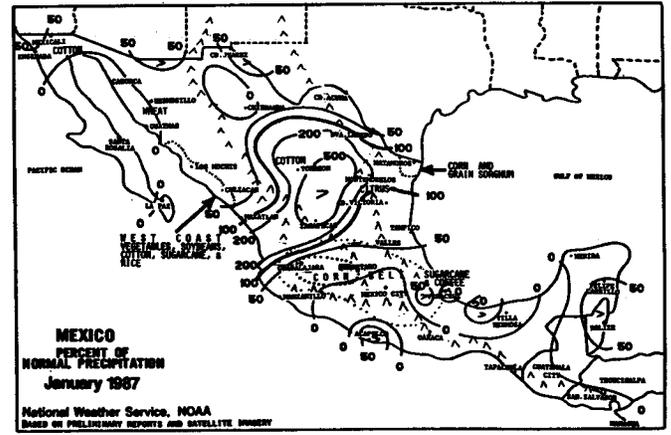
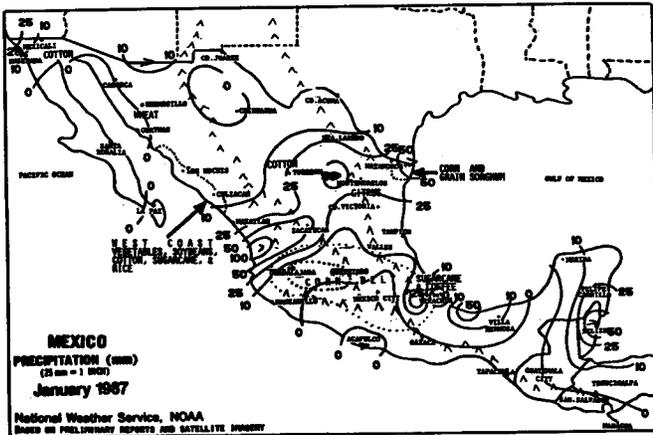
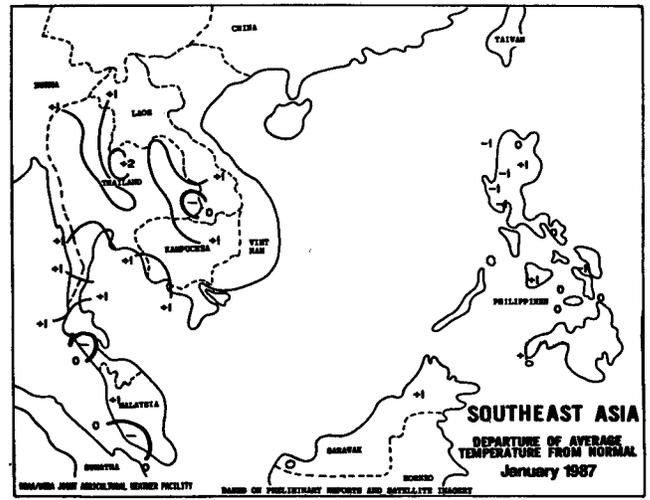
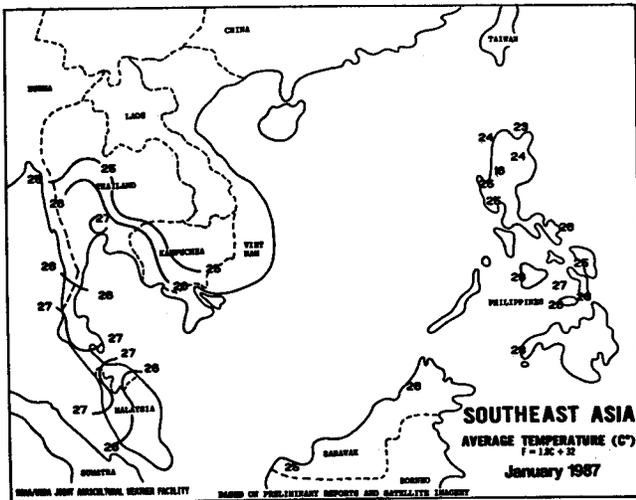
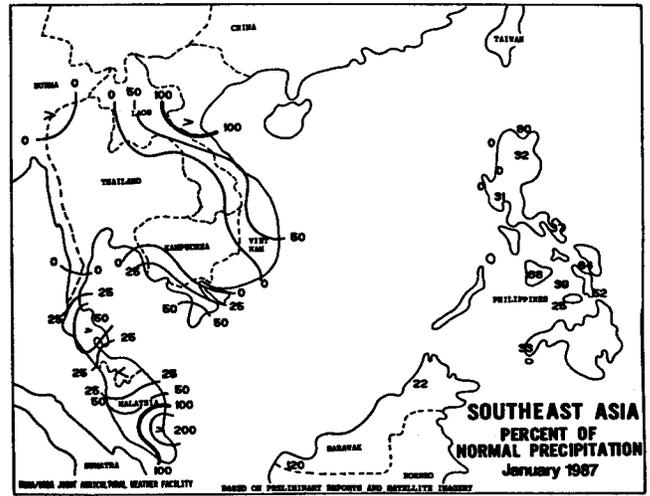
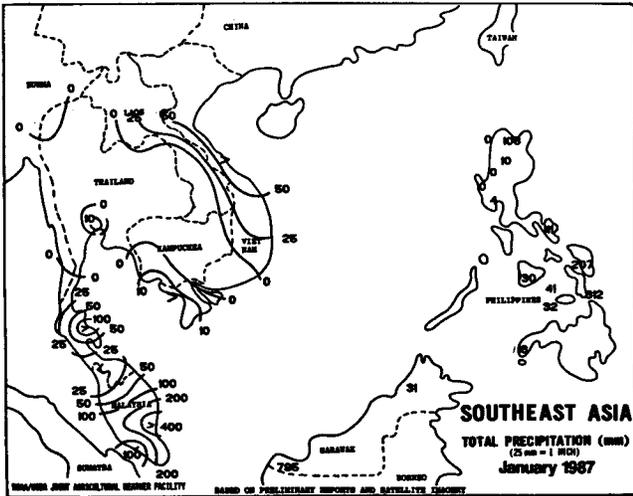


EUROPE ... Above-normal temperatures covered much of the region, reversing January's below-normal temperature pattern. In January, record-low temperatures covered some locations in Poland, East Germany, Czechoslovakia, and northern Hungary. Above-normal precipitation, mainly snow, covered most of these areas, providing some protection from extreme cold. However, below-normal January precipitation in central Poland limited the snow cover. Winter grains in Spain received above-normal rainfall in January, and light showers this past week maintained adequate moisture conditions. Widespread light-to-moderate precipitation over England, France, the Netherlands, Belgium, central West Germany, and northern Italy reversed January's below-normal precipitation pattern, increasing soil moisture for spring growth.

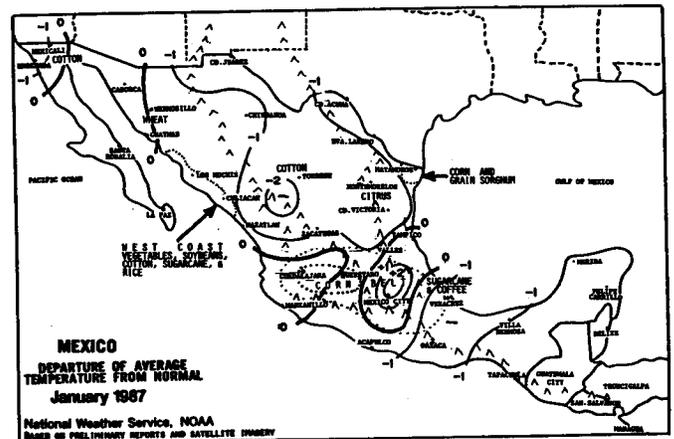
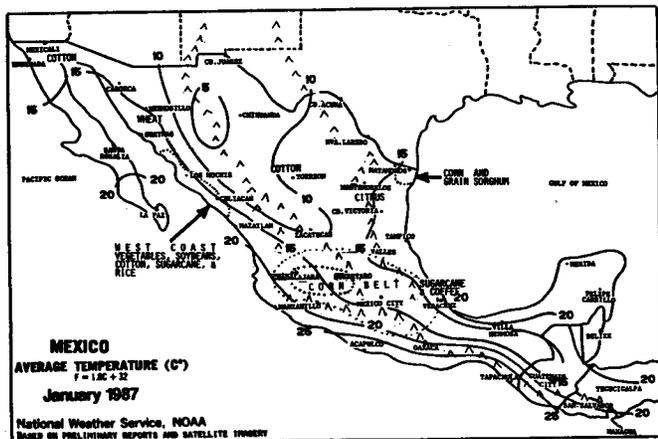
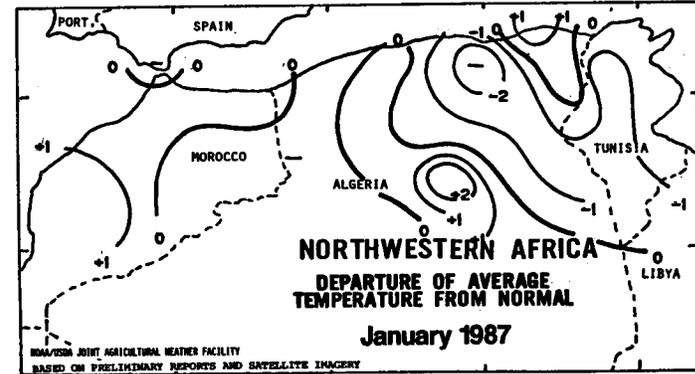
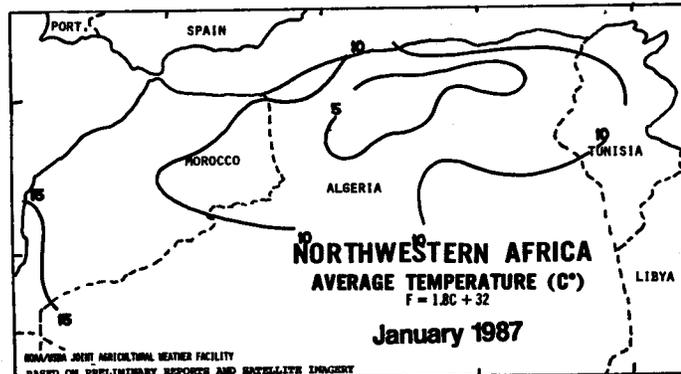
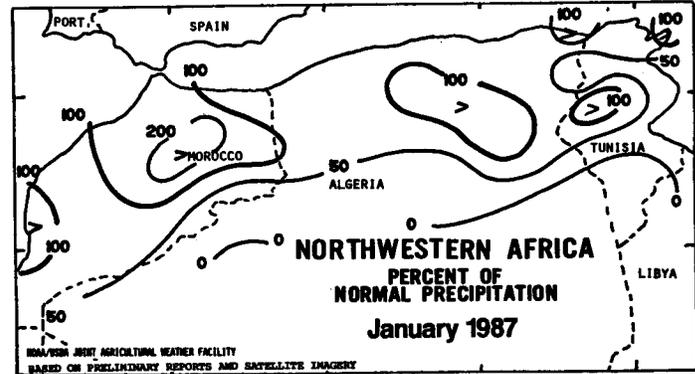
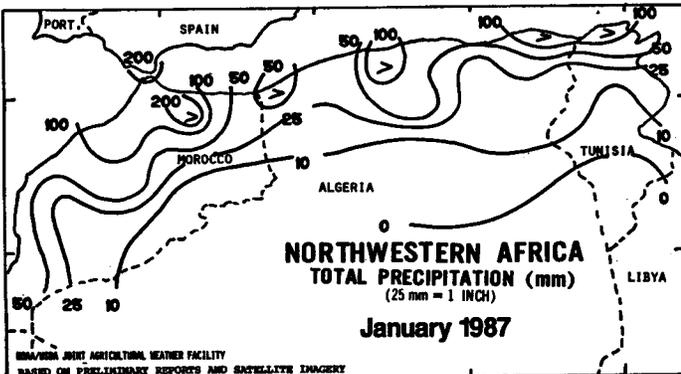
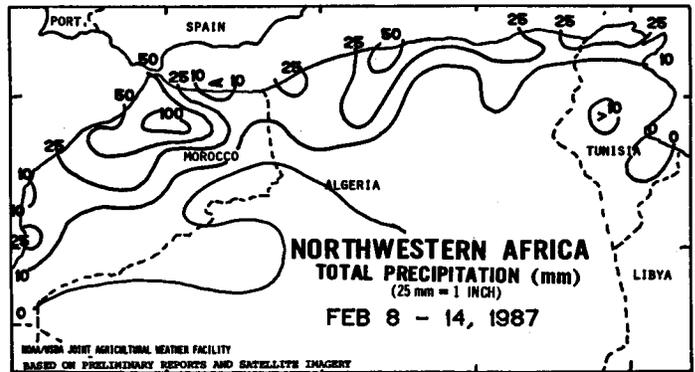


SOUTH AFRICA ... Moderate to heavy showers (20 to 90mm) brought much-needed relief to reproductive corn in western Orange Free State, Natal, and the southeastern Cape Province. Below-normal rainfall and above-normal temperatures had persisted in the western Maize Triangle since early-December. Minimal rain (less than 3mm) extended through most areas of northern Orange Free State and the Transvaal, South Africa's primary corn regions, reversing the favorable rainfall pattern, which has existed since the October planting season. However, most maximum temperatures remained near or below 30 degrees C, reducing the potential for stress in corn advancing through reproduction. In January, temperatures averaged 1 to 3 degrees C above normal in all major growing areas.

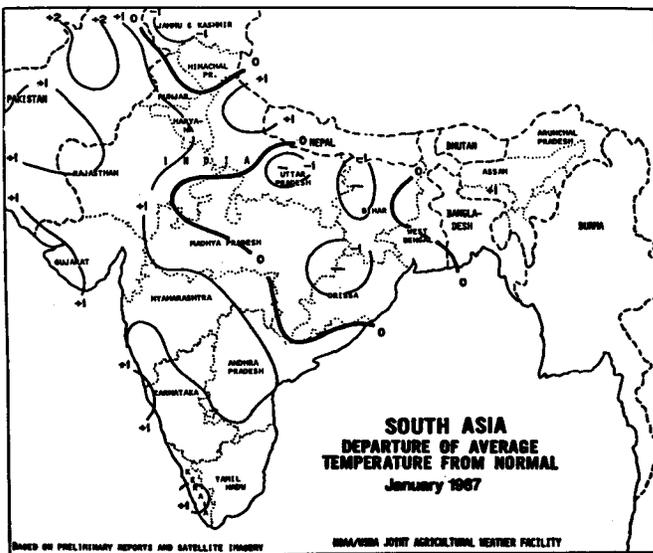
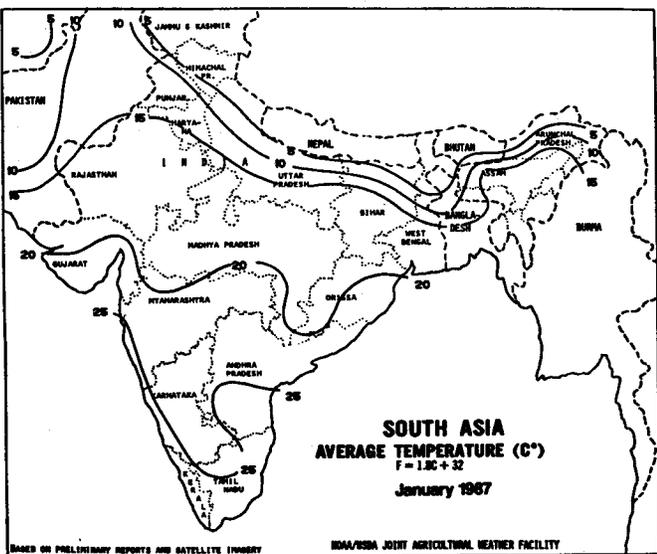
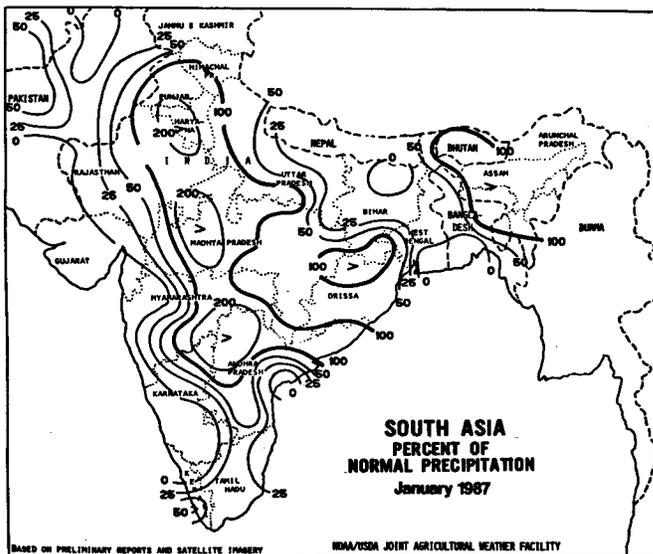
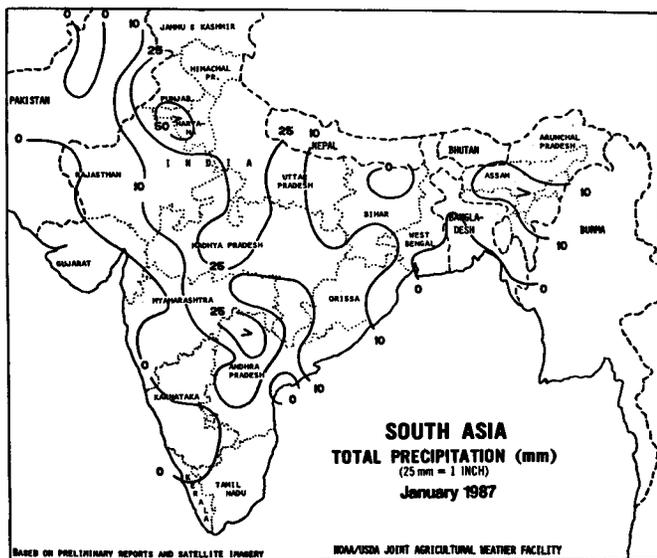
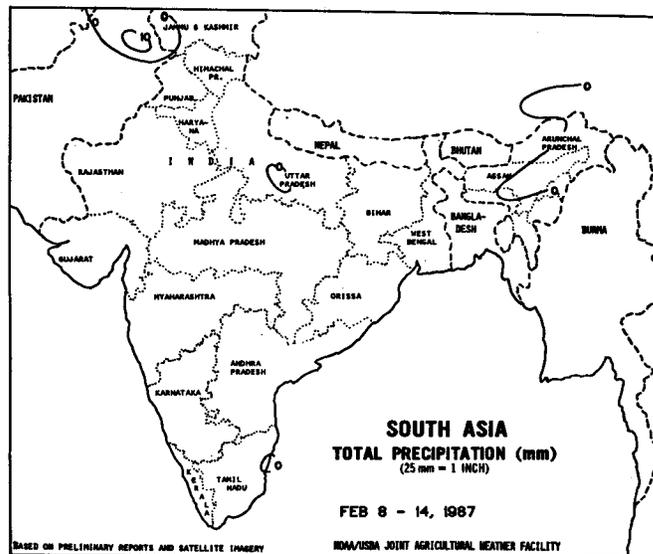




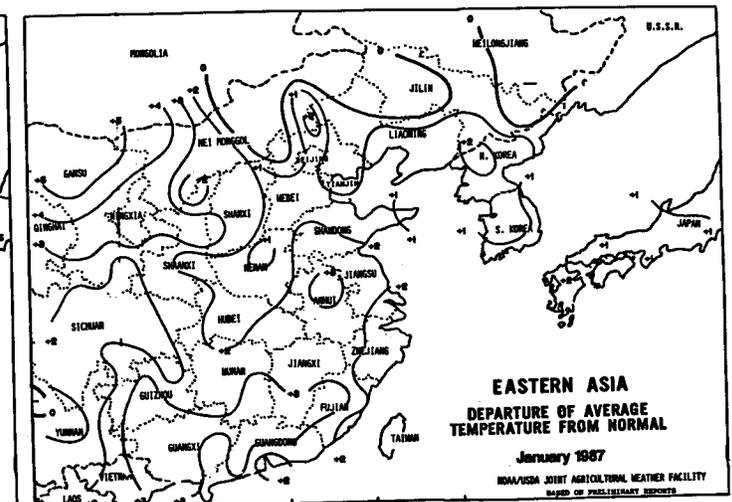
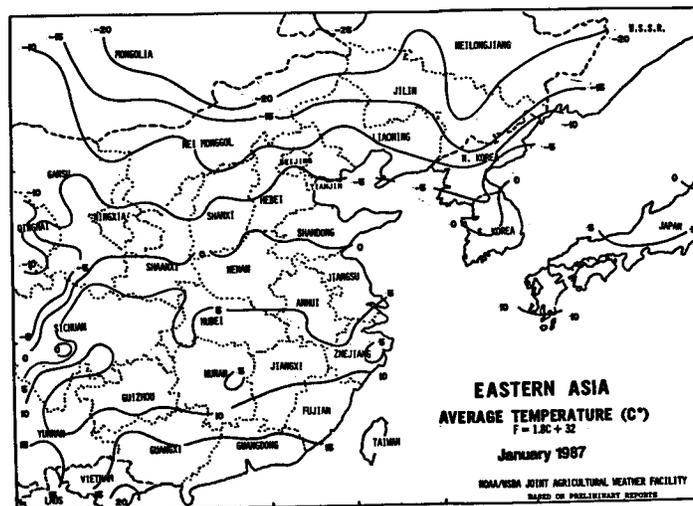
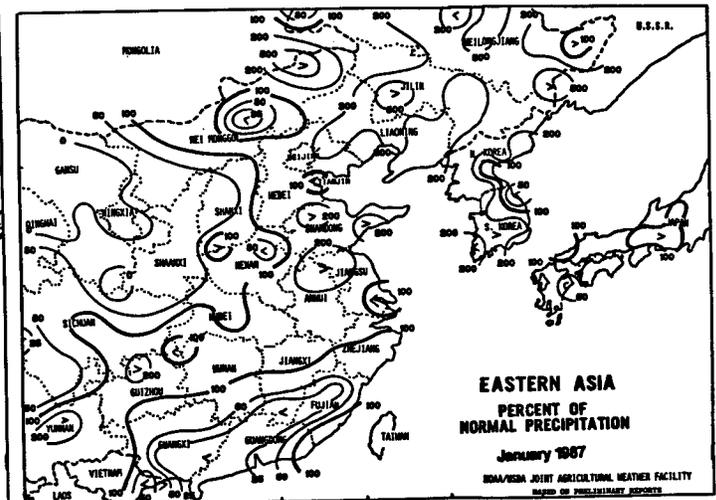
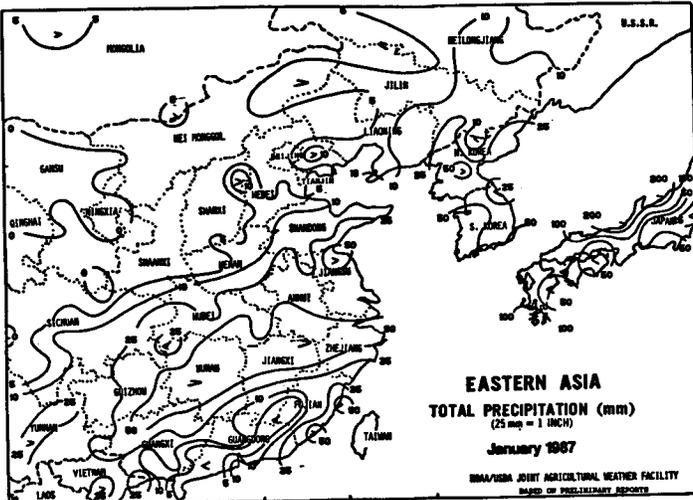
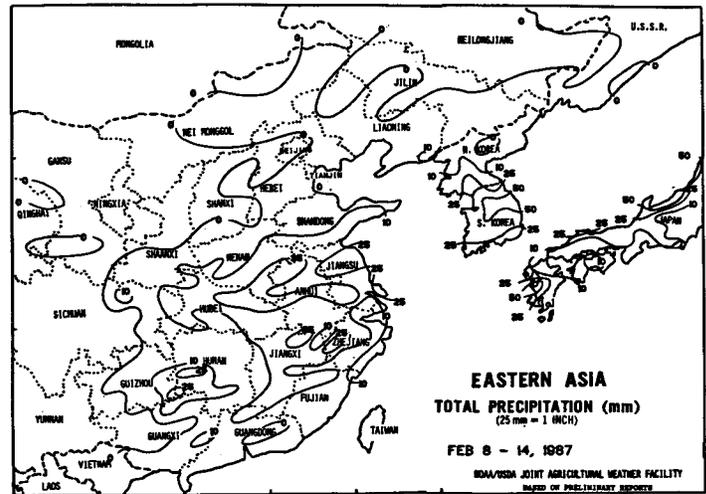
NORTHWESTERN AFRICA ... Widespread, significant rains continued to benefit winter grains over the region. Rainfall amounts in Morocco ranged from 22 to 60mm, with isolated locations receiving amounts in excess of 80mm. Morocco's precipitation continued January's above-normal rainfall pattern, increasing moisture conditions for winter grains. January's precipitation was somewhat below-normal in Algeria and Tunisia. However, the rain fell frequently during the month, meeting crop-moisture requirements. Widespread showers (18 to 77mm) in Algeria and Tunisia provided abundant moisture for crop growth. Winter grains over the region are in the jointing stage and normally advance through reproduction in late March and April.



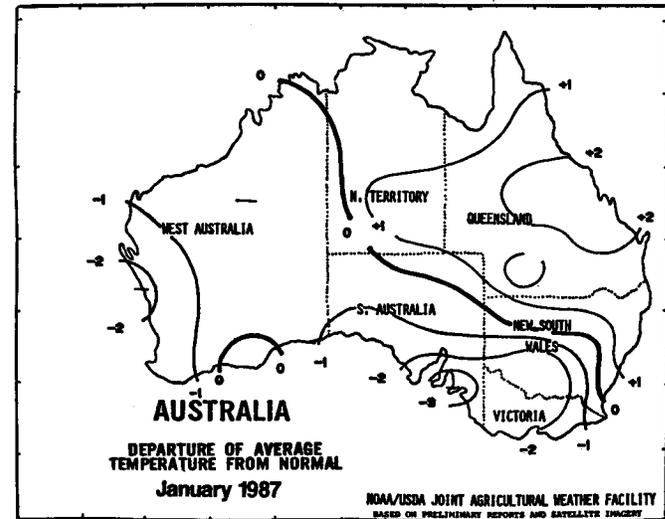
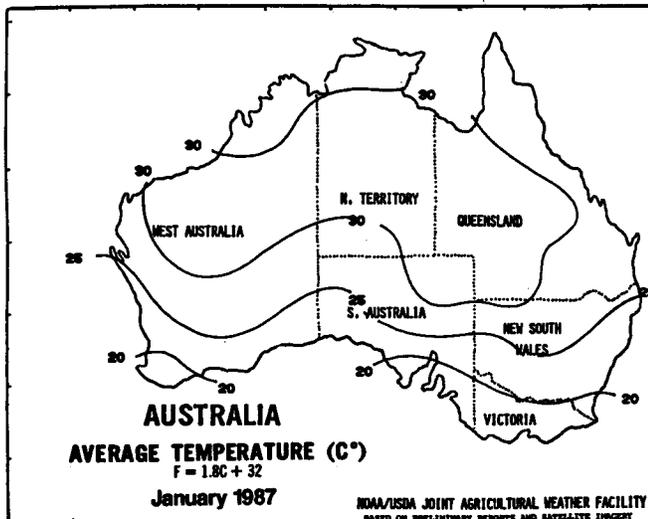
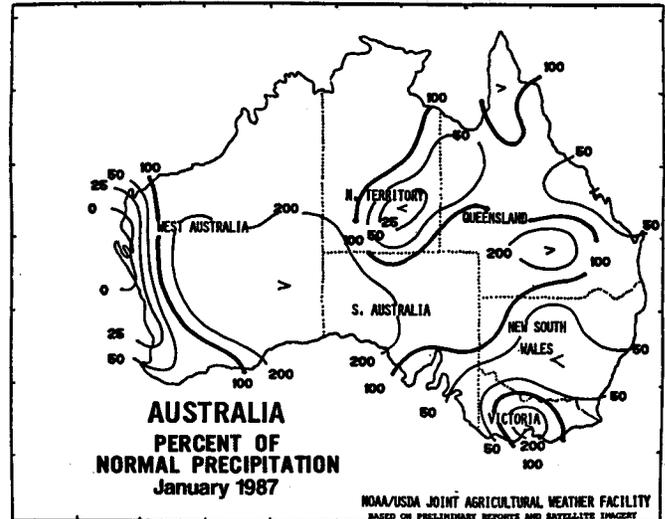
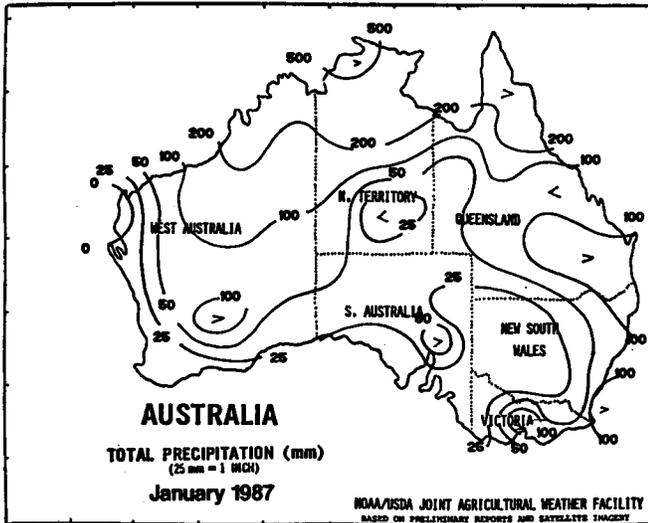
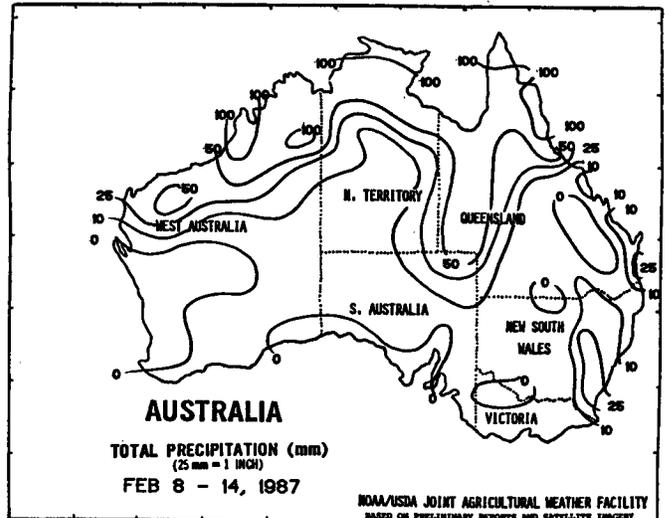
SOUTH ASIA ... Rain (up to 16mm) in wheat areas of northern Pakistan increased irrigation reserves. Dry weather covered India's grain and cotton areas. In January, unseasonable rainfall improved irrigation supplies from the winter grain areas of northern India southward to the rice areas of Andhra Pradesh. Below-normal rainfall since early-January has favored cotton harvesting and rice planting and transplanting.



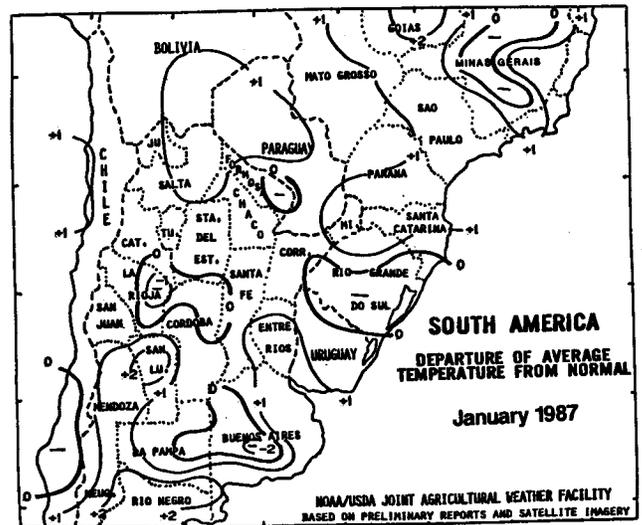
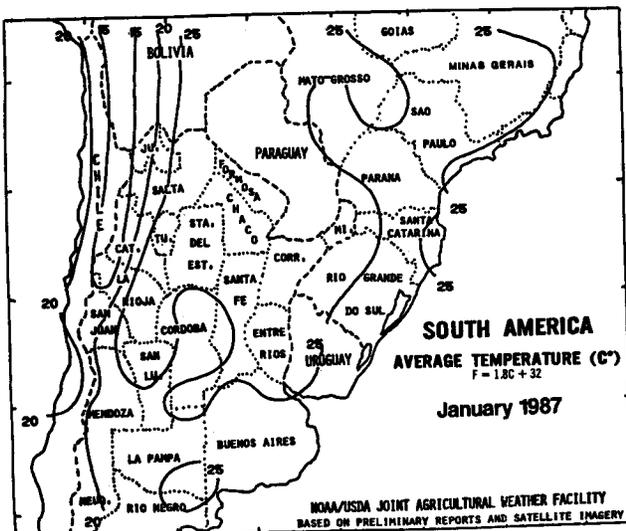
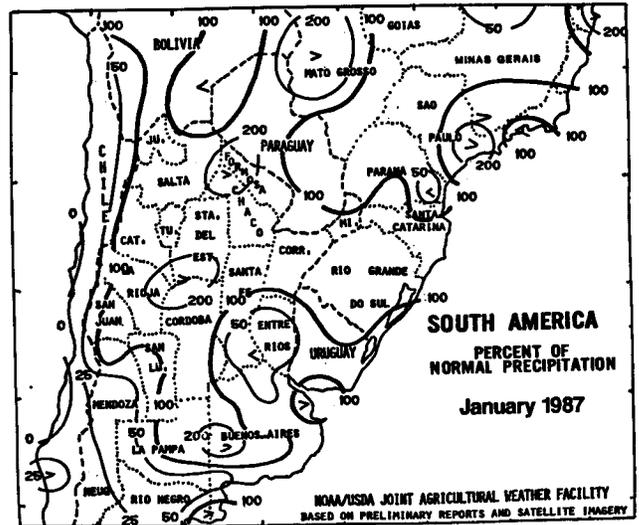
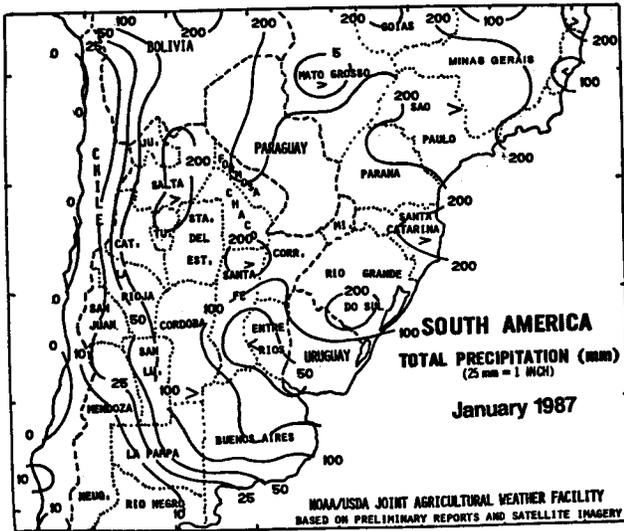
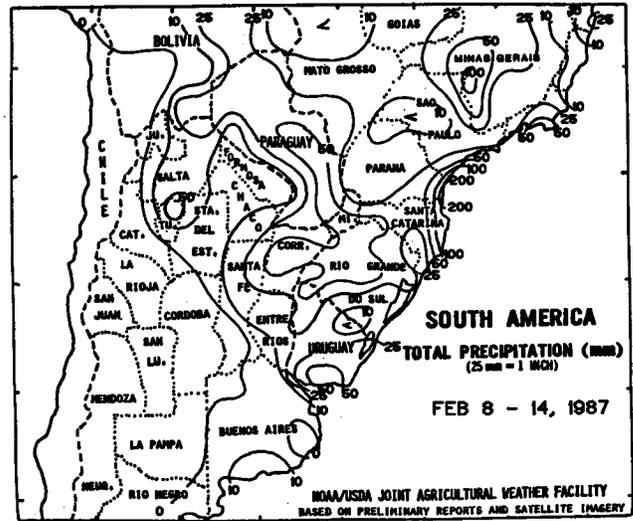
EASTERN ASIA ... Light showers and continued unseasonably warm weather covered central and southern winter wheat areas of Shandong, Jiangsu, Henan, northern Anhui, and northern Hubei. The mild, moist conditions in these areas likely induced early vegetative wheat growth. Dry weather covered dormant winter wheat in Hebei, Shanxi, and Shaanxi. In January, above-normal precipitation covered winter wheat areas in Hebei, Shandong, and Jiangsu as well as rice areas along the Yangtze Valley. Below-normal precipitation covered south coastal crop areas. This week, light-to-moderate rain (9 to 49mm) along the Yangtze Valley helped to increase moisture supplies for early rice planting, which normally begins in late February.



AUSTRALIA ... Moderate showers (10 to 31mm) benefited reproductive summer grains in eastern New South Wales. However, mostly warm, dry weather (less than 2mm) pervaded Queensland's summer crop areas as maximum temperatures reached 36 degrees C. In January, near-to above-normal rainfall extended from southeast Queensland to northern New South Wales, but temperatures averaged 2 degrees C above normal. Below-normal rainfall (2 to 20mm) persisted in sugarcane areas along Queensland's southern coast, reflecting the dry pattern, which has existed since the beginning of the rainy season in December. Heavy showers (50 to 181mm) continued for the third straight week in northernmost areas. Minimal rain (less than 2mm) promoted late wheat harvesting in South Australia and Victoria. Wheat harvesting is usually completed by late January, but unseasonable heavy rain in early January delayed the crop's progress.



SOUTH AMERICA ... In Argentina, dry weather returned to the primary summer crop areas, following the previous week's beneficial moisture. January rainfall was near to above average in crop areas of western Buenos Aires, La Pampa, Cordoba, and northern cotton areas. Monthly rainfall was below average in northeastern Buenos Aires, southern Santa Fe, and southern Entre Rios. Episodes of hot weather have reduced moisture for flowering and grain-filling crops in the east, but conditions have been favorable for crop growth in the west. In Brazil, substantial rain (25 to 75mm) covered Rio Grande do Sul, while locally heavy showers (50 to 152mm) covered southern Minas Gerais. Scattered showers generally produced 10 to 25mm of rain over most other crop areas, maintaining adequate moisture for soybeans. January rainfall was near normal in the south, due mostly to beneficial rain early in the month. Monthly rainfall was above-average in Mato Grosso do Sul, but somewhat below-average in western Parana and western Sao Paulo.



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