

# WEEKLY WEATHER AND CROP BULLETIN

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

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

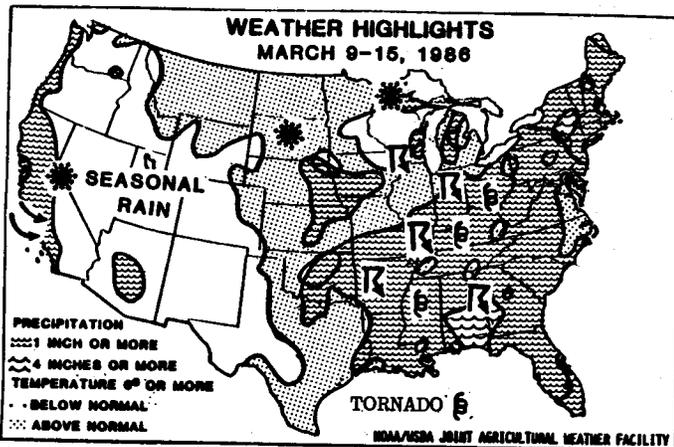
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Mar. 18, 1986

## National Weather Summary

March 9 to 15, 1986



showers and thunderstorms from the central Plains through New England, throughout the Appalachians, and in the Southeast. Tornadoes were reported through the Ohio and Tennessee Valleys.

**TUESDAY...**A new storm system developed in Texas and spread showers throughout the Plains with snow in North Dakota. Showers, thunderstorms, and occasional tornadoes developed from eastern Texas to eastern Nebraska and to the lower Ohio and lower Mississippi Valleys. Seasonal rain again covered the West, but heavy amounts were confined to the northwestern coast.

**WEDNESDAY...**A line of severe weather reached from the lower Mississippi Valley into western New York. Heavy thunderstorms and tornadoes were reported throughout this area. Lighter showers covered the East Coast States from northern Georgia to southern New England. Showers also covered much of the central Plains where snow fell late in the day. Showers were light but widespread through the West.

**THURSDAY...**The area of severe weather and heavy showers moved to the Southeast. Light to moderate showers fell through all of the East Coast States. Lighter showers fell along the gulf coast and in Texas. Snow fell from the upper Mississippi Valley through the upper Great Lakes. Showers were again light but widespread through the West.

**FRIDAY...**Light to moderate rain reached from the mid-Atlantic States and upper Ohio Valley through New England. Showers and thunderstorms continued in the Southeast. Light showers continued in Texas and the West. Colder air over the Plateau and Rocky Mountain regions resulted in snow at lower levels.

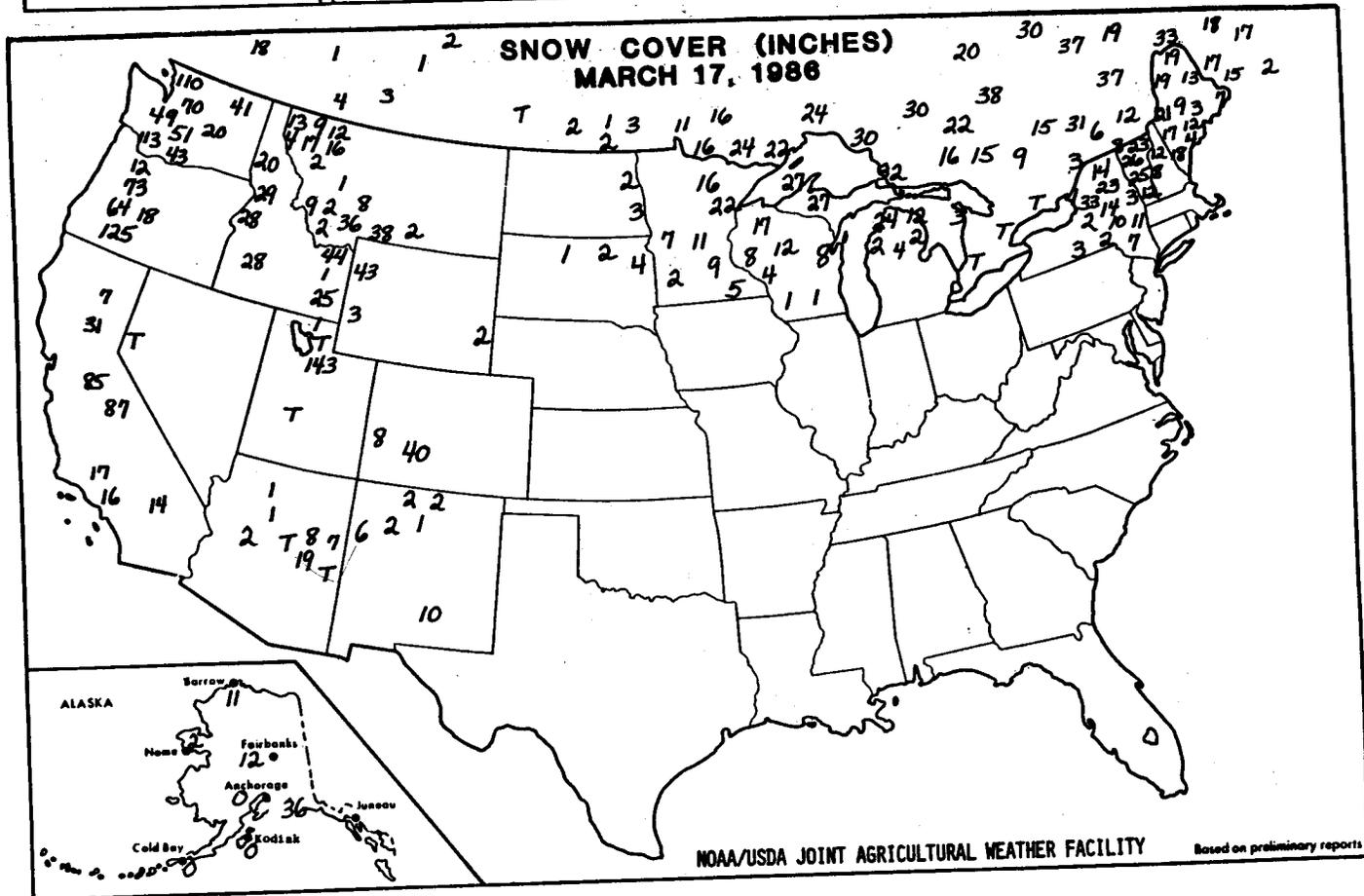
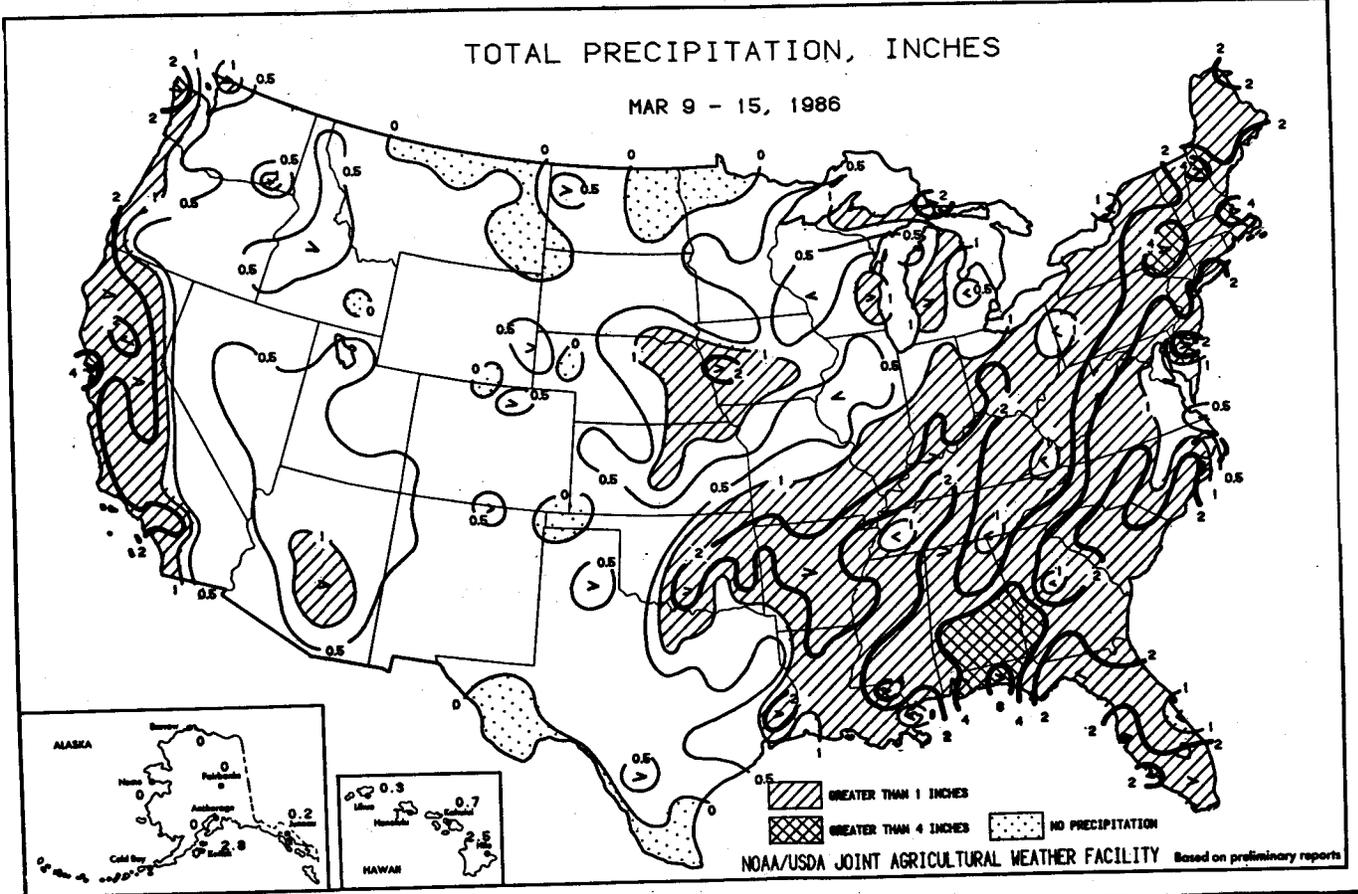
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**HIGHLIGHTS:** Pacific storms moved onto the west coast early in the week and again late in the week. Both storms brought high wind and heavy rain to most of California and along the west coast. Lighter rain was widespread throughout the West all week. The early-week storm brought snow only to the very high elevations but later snow fell at elevations as low as 2,000 feet. Another storm developed in the central Great Plains and, moving northeastward, triggered thunderstorms as far north as Wisconsin. A later storm triggered showers and thunderstorms from Oklahoma and Arkansas to the upper Ohio Valley and eastward through the Carolinas, Georgia, and Florida. Tornadoes were frequent from the lower Mississippi Valley to the upper Ohio Valley and across the South. Heavy rain showers fell through much of the Northeast. Snow or freezing rain fell across the upper Great Lakes region.

**SUNDAY...**Seasonal rains fell throughout the West from the Rockies to the coast. Moderate rain and blustery winds covered the California coast and snow was confined to the high mountains. Unusually warm weather flowed into the Plains and triggered showers and thunderstorms as far north as Wisconsin. Temperatures as high as 80 degrees reached into southeastern Nebraska. At various times of the day, rain, freezing rain, or snow fell from the Great Lakes to southern New England.

**MONDAY...**Rain was widespread from the Rockies to the west coast. Moderate to heavy amounts fell in parts of California. Snow covered the higher elevations of the mountains. An intense storm, moving through the Great Lakes region, triggered

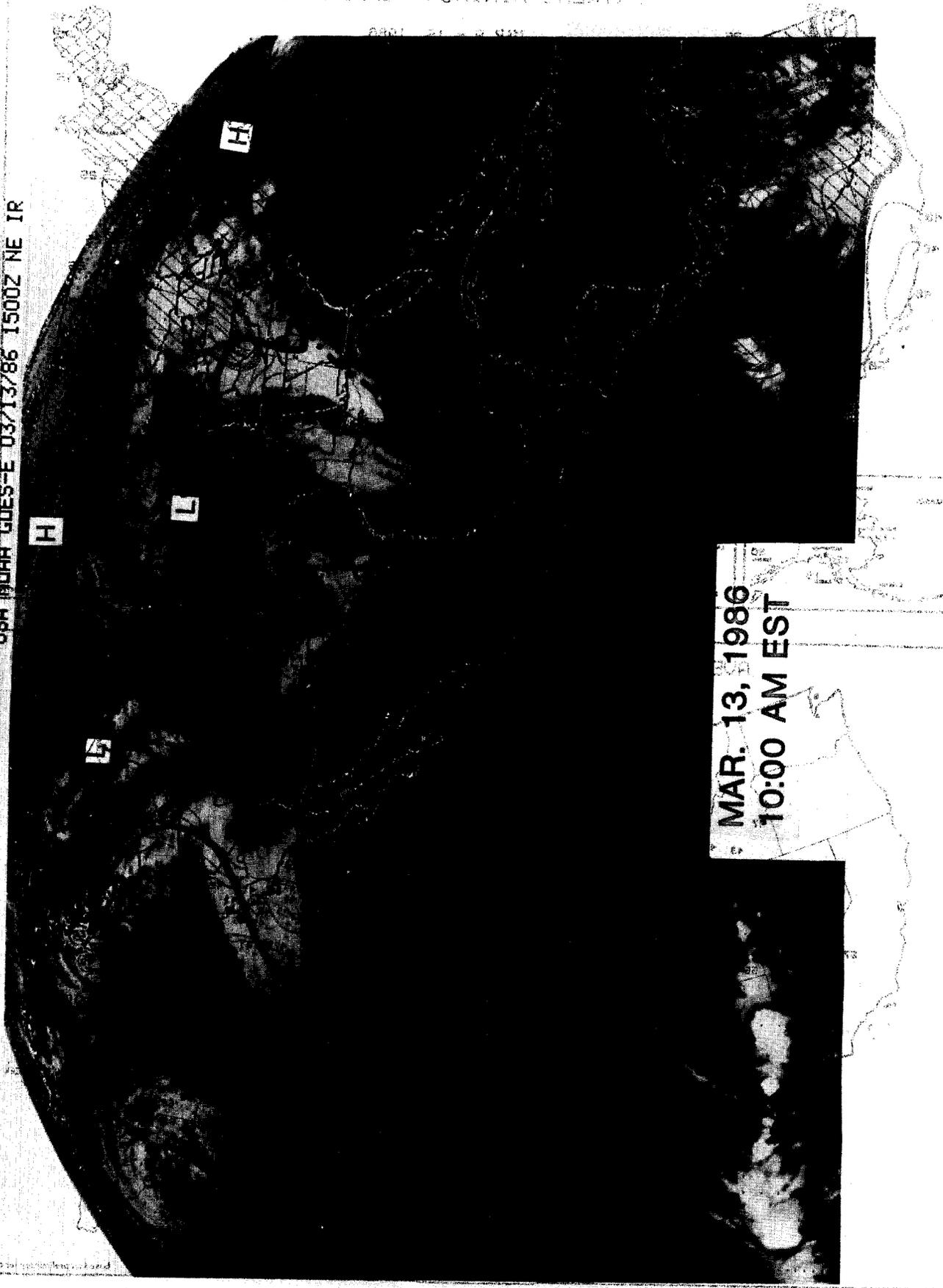
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03/13/86 1500Z NW IR

USA NOAA GOES-E 03/13/86 1500Z NE IR

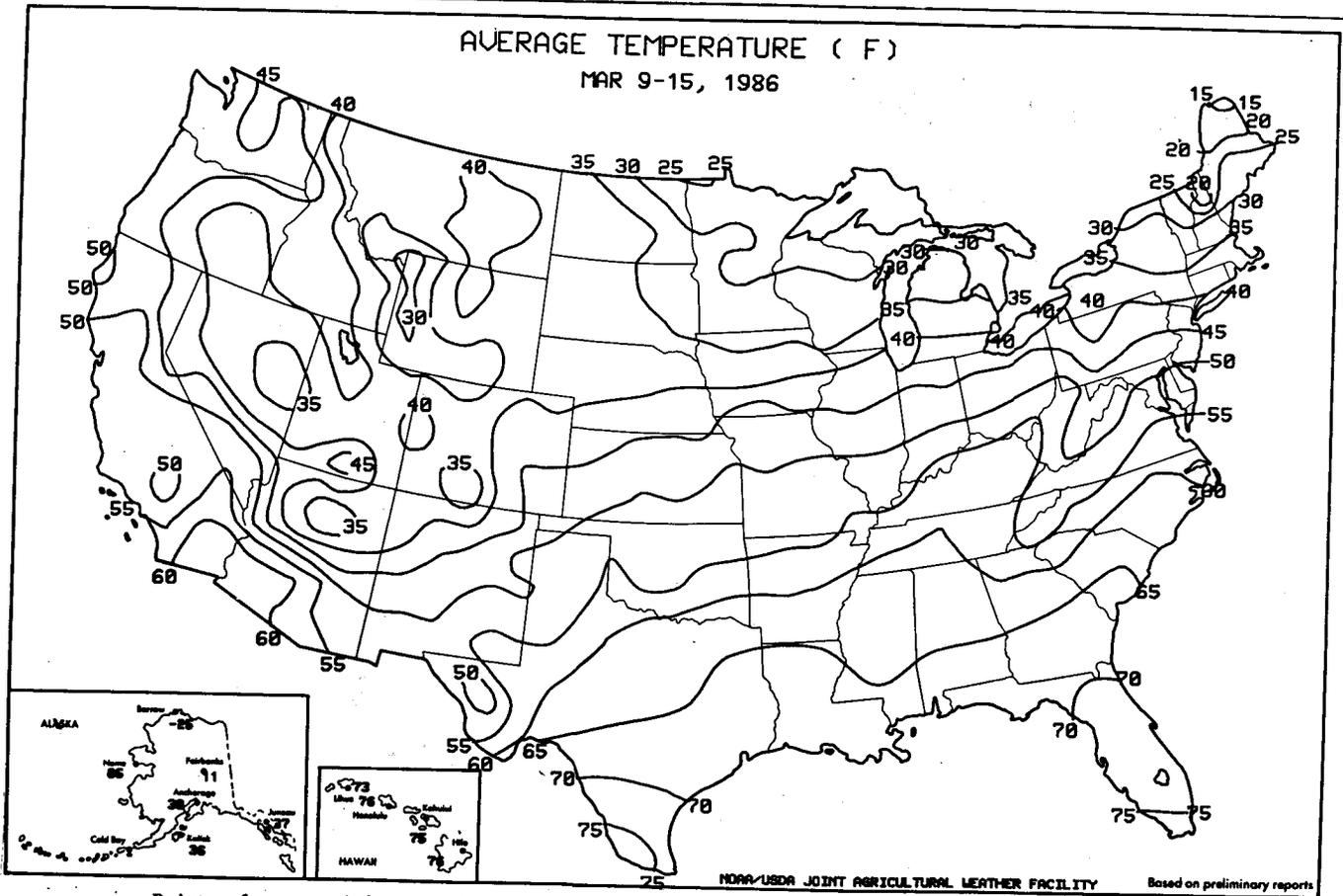
EXTREME MINIMUM TEMPERATURE



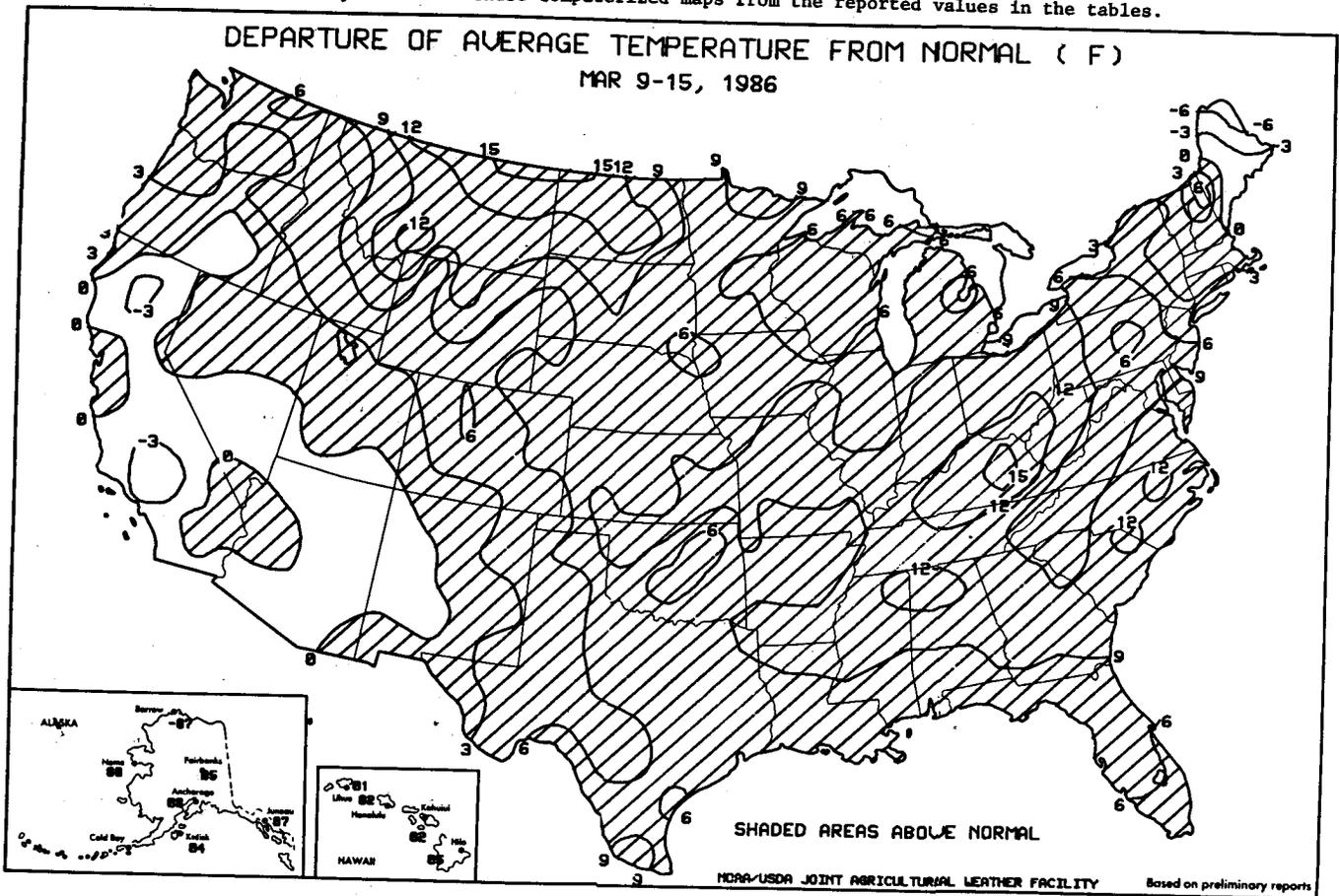
MAR. 13, 1986  
10:00 AM EST

SEVERE WEATHER AND THUNDERSTORMS MOVE ACROSS THE SOUTHEAST AS SHOWERS FALL OVER MUCH OF THE EASTERN HALF OF THE NATION. A PACIFIC STORM BRINGS WIDESPREAD RAIN TO THE WEST.





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

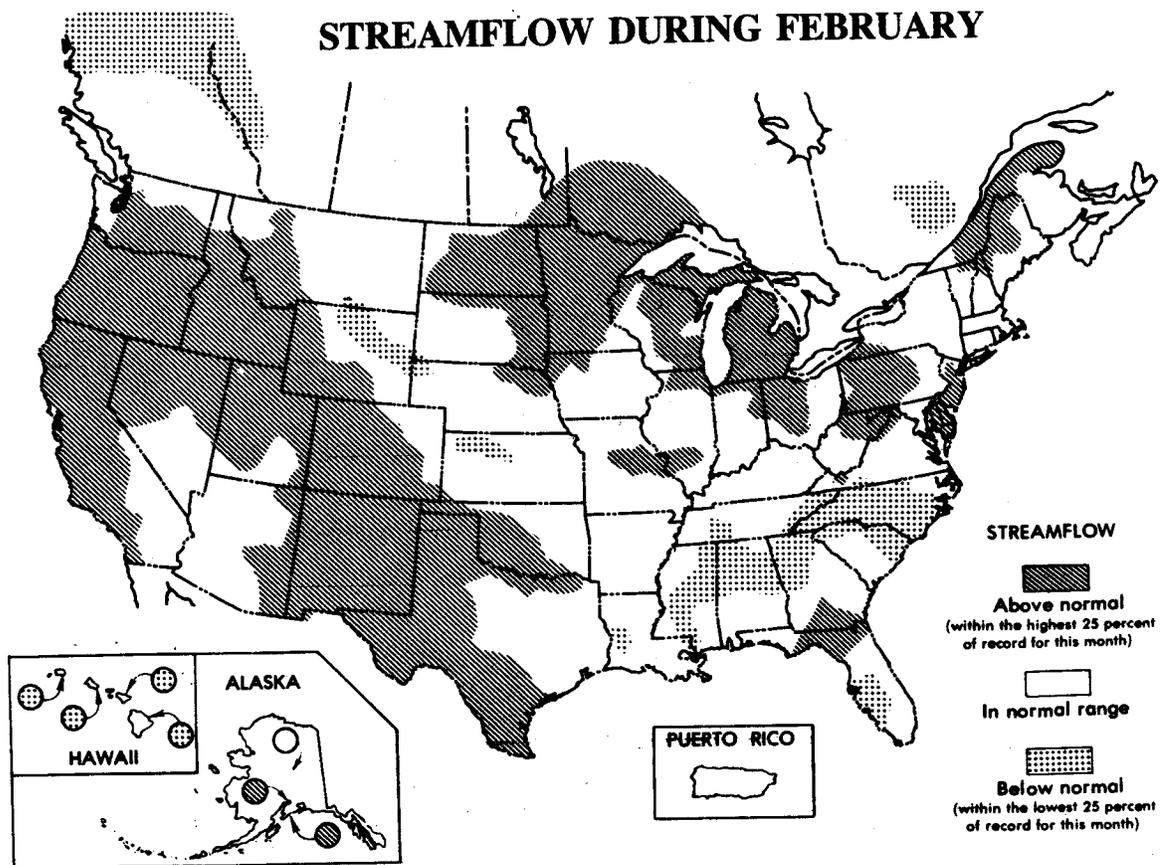


# National Water Conditions

UNITED STATES  
Department of the Interior  
Geological Survey

CANADA  
Department of the Environment  
Water Resources Branch

## FEBRUARY 1986



Severe flooding occurred in north-central California and western Nevada February 17-20, with damages estimated to exceed \$300 million. About 27,000 people were evacuated from flood- and landslide-affected areas in the two States. Floods also occurred in Oregon, Georgia, Florida, and Utah, but damages were minimal in those States because of sparse population in affected areas. The Great Salt Lake rose 0.75 foot during the month, reaching an elevation of 4,209.90 feet above mean sea level on February 28, 0.75 foot higher than at the end of February 1985, and only 0.05 foot lower than last year's maximum, which occurred on May 21.

Streamflow generally decreased in Alaska, Hawaii, Puerto Rico, Minnesota, Michigan, Ontario, Quebec, Nova Scotia, New Hampshire, Massachusetts, and Connecticut; changed variably in British Columbia, Wisconsin, Mississippi, New York, Maine, New Brunswick, and Florida; remained unchanged in South Dakota and increased in the rest of the United States and southern Canada. About 85 percent of the index stations had flows in the normal to above-normal range, compared with the 75 percent in those ranges for last month.

Contents of 76 percent of reporting reservoirs were at or above average for the end of February and only two sites with below-average contents reported significant declines. Most reservoirs in California, Nevada, Utah, Colorado, Arizona, and New Mexico had above-average contents for the end of February.

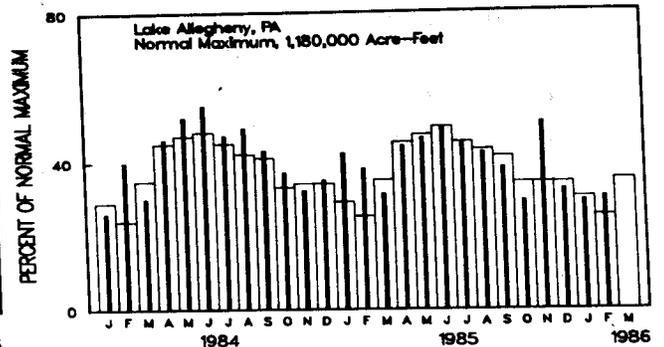
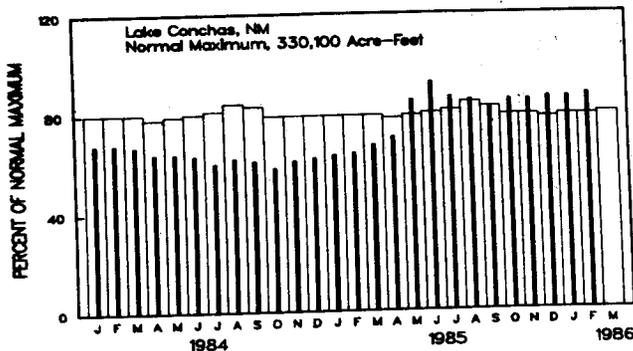
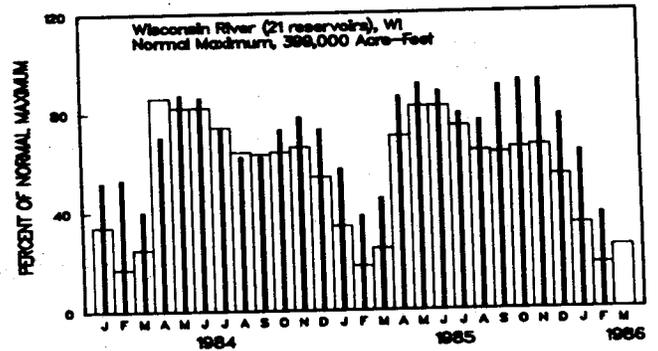
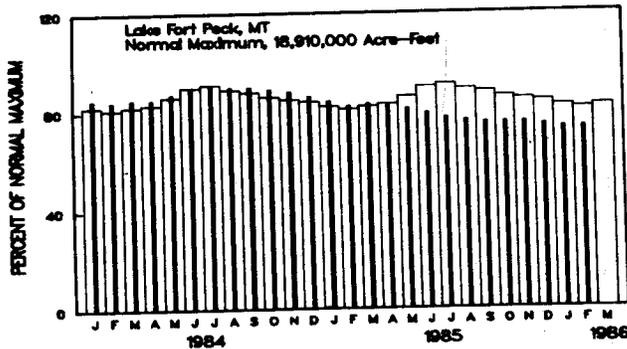
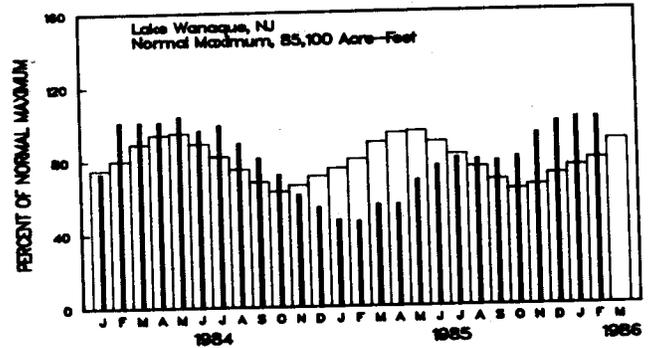
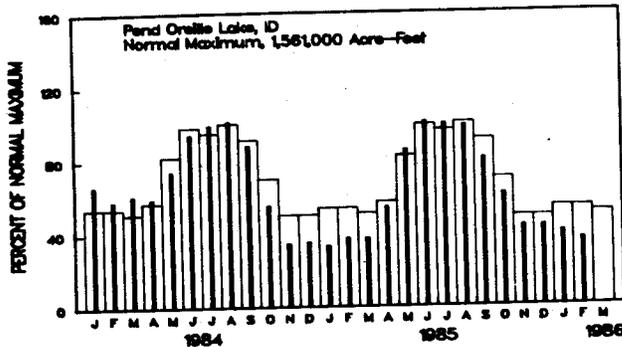
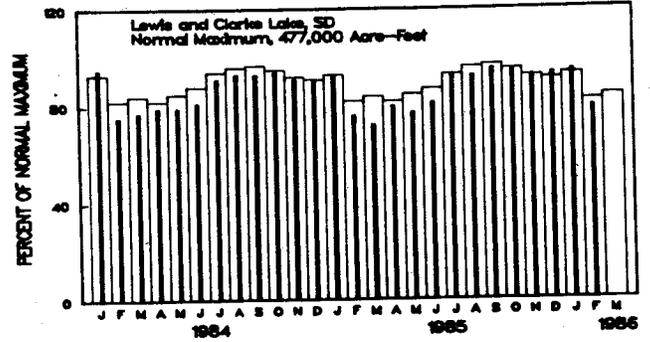
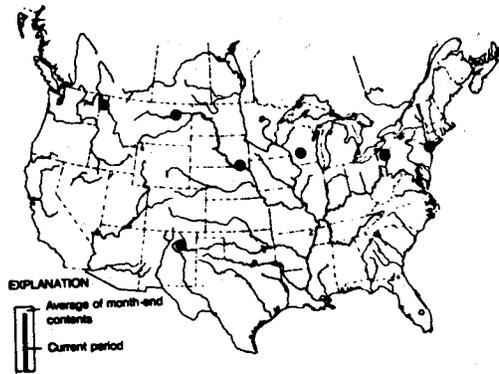
The combined flow of the 3 largest rivers in the lower 48 States—Mississippi, St. Lawrence, and Columbia—averaged 1,213,400 cubic feet per second (cfs) during February, 20 percent above median, and 51 percent above last month, a reversal as sharp in percent as that from December 1985 to January 1986. Flow of the St. Lawrence River at Cornwall, Ontario, increased 16 percent to a February record high of 287,500 cfs.

Provisional data; subject to revision

**WATER LEVELS IN KEY OBSERVATION WELLS IN SOME REPRESENTATIVE AQUIFERS IN THE CONTERMINOUS UNITED STATES—FEBRUARY 1986**

Aquifer and Location	Water level in feet with reference to land-surface datum	Departure from average in feet	Net change in water level in feet since:		Year records began	Remarks
			Last month	Last year		
Glacial drift at Hanska, south-central Minnesota.	-7.82	+1.17	+0.48	-0.16	1942	
Glacial drift at Roscommon in north-central part of Lower Peninsula, Michigan.	-4.33	+0.64	-0.28	+0.04	1935	
Glacial drift at Marion, Iowa .....	-3.90	+1.96	-0.40	+0.62	1941	
Glacial drift at Princeton in northwestern Illinois.	-7.00	+5.31	+1.15	+2.02	1943	
Petersburg Granite, southeastern Piedmont near Fall Zone, Colonial Heights, Virginia.	-12.88	+1.63	+1.43	+2.60	1939	
Glacial outwash sand and gravel, Louisville, Kentucky (U.S. well no. 2).	-17.23	+8.31	+0.27	-0.61	1946	
500-foot sand aquifer near Memphis, Tennessee (U.S. well no. 2).	-104.13	-15.26	+0.21	-0.06	1941	February low.
Granite in eastern Piedmont Province, Chapel Hill, North Carolina (U.S. well no. 5).	-41.96	+0.79	-0.06	-1.73	1931	
Sparta Sand in Pine Bluff industrial area, Arkansas.	-217.85	-11.44	-0.50	+11.35	1958	
Eutaw Formation in the City of Montgomery, Alabama (U.S. well no. 4).	-21.7	-2.6	+1.3	-7.0	1952	
Limestone aquifer on Cockspur Island, Savannah area, Georgia (U.S. well no. 6).	-32.14	+6.66	+0.22	+0.25	1956	
Sand and gravel in Puget Trough, Tacoma, Washington.	-100.98	+7.36	+1.00	-1.30	1952	
Pleistocene glacial outwash gravel, North Pole, northern Idaho (U.S. well no. 3).	-461.9	0	-0.8	+5.0	1929	
Snake River Group: Snake River Plain Aquifer, at Eden, Idaho (U.S. well no. 4).	-124.0	-3.8	-1.0	+0.2	1957	
Alluvial valley fill in Flowell area, Millard County, Utah (U.S. well no. 9).	-4.10	+20.44	-0.11	-5.30	1929	
Alluvial sand and gravel, Platte River Valley, Ashland, Nebraska (U.S. well no. 6).	-5.15	+0.14	+0.40	-0.37	1935	
Alluvial Valley fill in Steptoe Valley, Nevada.	-7.11	+5.71	+0.35	+0.86	1950	Alltime high.
Pleistocene terrace deposits in Kansas River valley, at Lawrence, northeastern Kansas.	-17.40	+3.90	-0.30	+3.07	1953	
Alluvium and Paso Robles clay, sand, and gravel, Santa Maria Valley, California	-127.96	+16.36	-17.92	-31.38	1957	
Valley fill, Elfrida area, Douglas, Arizona (U.S. well no. 15).	-104.3	-25.35	+0.3	+1.5	1951	
Hueco bolson, El Paso area, Texas.....	-263.54	-18.11	-0.34	-1.86	1965	February low.
Evangeline aquifer, Houston area, Texas.....	-308.52	-12.28	+4.05	-1.27	1965	

**USABLE CONTENTS OF SELECTED RESERVOIRS NEAR END OF FEBRUARY 1986**



National Weather Data for Selected Cities

Weather Data for the Week Ending March 15, 1986

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 MAR. 1	PCT. NORMAL SINCE MAR. 1	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	TEMPERATURE °F		PRECIPITATION	
																		.01 INCH OR MORE	.50 INCH OR MORE		
AL BIRMINGHAM	74	57	82	51	66	13	1.8	.2	1.6	1.8	56	4.7	36	90	49	0	0	0	0	1	1
MOBILE	75	58	78	48	67	8	2.1	.6	1.7	2.7	87	9.6	76	98	64	0	0	0	0	2	1
MONTGOMERY	76	53	84	42	65	9	5.1	3.7	5.0	5.1	173	12.3	106	94	53	0	0	0	0	3	1
AK ANCHORAGE	37	22	42	12	30	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BARROW	-20	-30	-15	-37	-25	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FAIRBANKS	24	-3	32	-12	11	5	0	0	0	0	450	0.4	100	74	67	0	0	0	0	0	0
JUNEAU	41	33	45	30	37	7	0	0	0	0	0	0	25	74	43	0	0	0	0	0	0
KODIAK	40	31	46	19	36	4	2.8	-1.9	1.4	3.1	144	19.7	117	96	73	0	0	0	0	3	6
NOME	18	-7	34	-12	5	0	0	0	0	0	0	0	12	63	72	0	0	0	0	0	0
AZ PHOENIX	68	50	74	46	59	0	1.1	.8	.5	1.1	244	2.3	128	84	30	0	0	0	0	4	5
PRESCOTT	51	32	56	26	42	0	1.2	.8	.3	1.4	178	2.6	65	79	41	0	0	0	0	5	5
TUCSON	67	46	73	39	57	0	0	0	0	0	0	0	144	82	26	0	0	0	0	5	5
YUMA	72	52	77	47	62	-1	0	0	0	0	0	0	107	5	63	0	0	0	0	0	0
AR FORT SMITH	68	45	78	43	57	8	1.3	.4	.9	1.3	72	5.1	82	64	27	0	0	0	0	1	1
LITTLE ROCK	67	49	76	44	58	7	2.9	1.8	1.9	2.9	127	6.4	66	87	49	0	0	0	0	3	3
CA BAKERSFIELD	60	45	63	40	52	-4	1.4	1.2	.6	2.0	444	3.9	156	98	53	0	0	0	0	5	5
BUREKA	58	45	61	35	51	3	3.5	2.4	1.2	5.3	204	22.5	152	83	50	0	0	0	0	6	7
FRESNO	59	47	64	44	53	-1	2.8	2.4	.9	3.2	400	9.0	191	91	62	0	0	0	0	6	6
LOS ANGELES	60	48	62	46	54	-3	2.2	1.8	1.2	3.0	309	10.7	165	96	62	0	0	0	0	2	2
RED BLUFF	55	43	59	34	49	-4	3.1	2.5	1.1	4.7	368	18.2	200	93	62	0	0	0	0	5	5
SACRAMENTO	59	46	62	40	53	0	2.1	1.7	.9	3.5	316	15.7	196	92	60	0	0	0	0	5	5
SAN DIEGO	62	53	63	51	57	-2	1.3	.9	.7	1.8	220	5.1	116	90	62	0	0	0	0	2	1
SAN FRANCISCO	59	48	61	45	54	4	4.2	3.6	2.0	5.5	393	17.7	190	91	61	0	0	0	0	3	3
CO DENVER	53	32	63	25	43	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GRAND JUNCTION	52	34	62	29	43	2	2	2	2	2	12	.9	53	74	29	0	0	0	0	3	3
PUEBLO	58	29	66	21	44	4	0	0	0	0	0	0	71	47	93	0	0	0	0	2	2
CT BRIDGEPORT	46	33	62	23	40	3	0	0	0	0	0	0	97	88	88	0	0	0	0	5	5
HARTFORD	43	29	60	18	36	6	2.0	1.2	.9	2.0	113	7.9	99	93	63	0	0	0	0	2	2
DC WASHINGTON	62	42	74	30	52	8	2.2	1.3	1.4	2.2	115	10.6	123	92	60	0	0	0	0	4	4
FL APALACHICOLA	73	60	75	54	66	6	0	0	0	0	0	0	44	6.6	93	82	53	0	0	3	3
DAYTONA BEACH	81	63	85	59	72	6	1.5	.6	.9	1.8	92	11.1	122	97	79	0	0	0	0	2	2
JACKSONVILLE	81	57	87	44	69	9	1.3	.6	.8	1.4	90	9.8	140	97	58	0	0	0	0	1	1
KEY WEST	81	73	83	68	77	4	1.1	.8	.8	1.2	251	13.7	163	98	51	0	0	0	0	3	3
MIAMI	82	68	85	63	75	4	3.2	2.7	2.4	3.2	354	10.0	200	92	66	0	0	0	0	2	2
ORLANDO	82	63	88	59	72	6	1.5	.7	1.0	1.6	97	10.6	163	96	53	0	0	0	0	4	4
TALLAHASSEE	77	57	83	48	67	7	1.5	.1	1.4	1.8	64	14.1	113	99	57	0	0	0	0	3	3
TAMPA	80	63	86	57	72	6	3.0	2.2	2.5	3.2	176	6.9	99	95	60	0	0	0	0	1	1
WEST PALM BEACH	81	68	86	64	74	5	2.1	1.5	1.3	2.2	164	10.1	151	92	69	0	0	0	0	4	4
GA ATLANTA	70	52	77	38	61	10	2.4	1.0	2.1	2.4	84	5.8	48	99	61	0	0	0	0	2	2
AUGUSTA	77	49	83	33	63	9	1.5	.3	.7	1.5	58	5.4	51	98	52	0	0	0	0	3	3
MACON	77	52	83	43	65	10	0	0	0	0	0	0	57	97	50	0	0	0	0	1	1
SAVANNAH	79	56	84	39	67	10	2.1	1.2	1.7	2.3	120	9.6	117	99	56	0	0	0	0	2	2
HI HILO	84	68	87	65	76	5	2.5	.5	1.6	2.9	44	8.3	28	88	55	0	0	0	0	4	4
HONOLULU	85	68	88	64	77	3	0	0	0	0	0	0	2	1.6	19	0	0	0	0	2	2
KAHULUI	82	68	86	63	75	2	2	2	2	2	2	2	19	88	53	0	0	0	0	4	4
LIHUE	79	67	82	63	73	2	.7	.1	.4	1.0	67	3.3	37	93	64	0	0	0	0	2	2
ID BOISE	52	35	54	30	44	3	0	0	0	0	0	0	22	1.7	14	0	0	0	0	2	2
LEMISTON	55	38	58	30	44	3	.6	.4	.2	1.3	282	6.0	188	90	44	0	0	0	0	3	3
POCATELLO	47	31	50	24	39	5	0	0	0	0	0	0	49	3.3	122	87	49	0	0	1	1
IL CHICAGO	48	33	62	24	41	7	0	0	0	0	0	0	89	4.1	171	91	49	0	0	4	4
MOLINE	51	35	69	31	44	9	.6	.1	.5	.7	69	3.7	93	94	70	0	0	0	0	3	3
PEORIA	52	35	71	32	43	9	0	0	0	0	0	0	56	3.5	85	90	63	0	0	1	1
QUINCY	57	35	75	31	46	9	.4	.2	.4	.6	46	2.6	62	94	65	0	0	0	0	2	2
ROCKFORD	46	32	59	24	39	8	.3	.4	.1	.4	27	2.6	63	91	56	0	0	0	0	3	3
SPRINGFIELD	57	36	71	30	46	9	.3	.2	.2	.4	38	3.5	97	98	79	0	0	0	0	3	3
IN EVANSVILLE	64	43	74	35	54	11	0	0	0	0	0	0	50	2.5	53	89	57	0	0	2	2
FORT WAYNE	52	35	66	32	44	9	1.7	.7	1.5	1.8	82	8.7	106	88	55	0	0	0	0	0	0
INDIANAPOLIS	57	39	71	34	48	10	1.6	.9	.8	1.7	136	5.4	79	90	63	0	0	0	0	3	3
SOUTH BEND	52	34	64	31	43	8	1.5	.7	.8	1.7	102	5.4	79	88	57	0	0	0	0	4	4
IA DES MOINES	47	32	72	26	40	7	0	0	0	0	0	0	95	4.9	86	90	59	0	0	2	2
SIoux CITY	45	30	65	24	38	6	.7	.0	.3	1.2	95	3.3	110	91	64	0	0	0	0	3	3
WATERLOO	42	31	52	24	36	7	1.4	.9	1.2	1.4	154	2.5	109	95	62	0	0	0	0	5	5
KS CONCORDIA	55	37	81	31	46	8	1.7	1.3	1.7	2.0	2.5	109	95	74	0	0	0	0	3	3	
DODGE CITY	59	37	79	30	48	8	1.2	-.1	1.0	1.2	150	2.5	109	89	51	0	0	0	0	2	2
GOODLAND	54	31	70	19	42	8	.2	-.2	.1	.2	27	.6	35	91	45	0	0	0	0	1	1
TOPEKA	57	39	80	27	48	7	.5	.3	.5	.6	128	1.0	83	91	46	0	0	0	0	4	4
WICHITA	59	40	81	29	50	7	.7	.3	.4	.7	81	2.3	82	93	54	0	0	0	0	2	2
KY BOWLING GREEN	68	47	75	41	58	13	0	0	0	0	0	0	36	1.6	67	89	51	0	0	2	2
LEXINGTON	66	45	74	38	55	13	1.7	.4	1.3	1.8	67	6.6	59	88	50	0	0	0	0	0	0
LOUISVILLE	67	46	73	39	56	13	1.7	.5	1.1	1.7	74	4.8	53	88	52	0	0	0	0	3	3
LA ALEXANDRIA	77	56	84	51	67	8	1.9	.9	1.5	2.0	91	6.9	78	83	45	0	0	0	0	4	4
BATON ROUGE	76	54	82	52	67	7	1.3	.3	1.3	2.0	91	4.6	36	91	55	0	0	0	0	2	2
LAKE CHARLES	76	56	79	50	66	6	.9	.2	.6	1.8	119	5.5	57	100	60	0	0	0	0	1	1
NEW ORLEANS	77	57	82	52	67	7	.8	-.3	.7	1.0	40	7.4	59	98	59	0	0	0	0	2	2

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

Weather Data for the Week Ending March 15, 1986

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 MAR. 1	PCT. NORMAL SINCE MAR. 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
														90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE		
SHREVEPORT	77	53	85	46	65	9	.3	-.6	.1	.3	14	4.2	46	91	41	0	0	3	0
ME CARIBOU	25	8	31	-10	16	-6	1.2	-.7	.6	1.7	147	7.7	135	89	55	0	0	4	1
PORTLAND	37	25	50	18	31	0	2.3	1.4	1.0	2.8	147	12.0	129	97	63	0	7	6	1
MD BALTIMORE	61	40	76	27	51	9	1.0	-.1	.5	1.0	53	6.8	87	83	58	0	1	1	0
SALISBURY	65	41	76	19	53	10	.7	-.3	.7	32	32	8.6	99	80	50	0	4	3	2
MA BOSTON	44	30	61	21	37	0	4.5	3.5	1.9	4.5	219	10.7	110	86	60	0	4	3	3
CHATHAM	47	32	55	22	40	4	2.8	1.9	1.3	2.9	145	8.5	81	89	50	0	4	5	5
MI ALPENA	37	25	46	14	31	6	1.2	-.6	.6	1.7	194	3.7	97	98	72	0	5	5	1
DETROIT	48	31	60	26	40	6	.7	-.2	.2	1.2	110	6.0	128	93	61	0	4	4	0
FLINT	45	30	57	22	38	7	.5	0	0	1.0	105	3.8	95	95	63	0	3	3	0
GRAND RAPIDS	44	31	56	28	38	6	1.1	.6	.7	1.7	171	6.1	136	95	65	0	4	4	2
HOUGHTON LAKE	39	25	48	12	32	7	1.1	-.7	.5	1.4	175	4.2	117	94	66	0	6	6	2
LANSING	45	30	58	23	38	7	.5	0	.3	1.0	96	4.4	122	99	99	0	7	4	0
MARQUETTE	34	18	42	9	26	5	1.1	-.5	-.4	2.0	163	6.2	122	96	96	0	4	2	0
MUSKEGON	45	31	56	24	38	7	.7	-.1	-.4	1.2	113	4.9	96	94	73	0	7	4	0
SAULT STE. MARIE	33	22	36	11	27	5	2.7	2.3	1.4	3.3	357	5.9	123	99	77	0	7	7	3
MN ALEXANDRIA	37	23	43	13	30	8	.8	-.5	-.4	.8	160	2.8	140	97	68	0	7	7	0
DULUTH	35	20	43	2	28	7	.6	-.2	.2	.7	95	2.1	72	95	60	0	7	4	0
INT'L FALLS	41	19	48	14	30	12	T	-.2	T	.1	26	1.7	81	87	45	0	6	5	1
MINNEAPOLIS	38	27	43	17	33	6	.9	-.5	.7	.9	120	2.6	108	96	67	0	7	6	0
ROCHESTER	36	26	39	13	31	5	.2	-.1	.2	.3	37	1.5	71	98	78	0	0	2	1
MS GREENWOOD	74	54	81	50	64	11	1.2	-.2	1.1	1.2	41	3.2	25	89	51	0	0	2	1
JACKSON	75	54	82	49	65	9	1.7	-.4	1.3	1.7	61	3.9	32	97	56	0	0	4	1
MERIDIAN	67	53	80	39	64	9	2.7	1.1	2.5	2.7	84	6.0	47	97	53	0	0	3	1
MO CAPE GIRARDEAU	75	43	74	35	55	—	1.3	.2	.6	1.3	56	5.1	61	94	52	0	1	1	0
COLUMBIA	61	39	80	32	50	10	.7	0	.7	.7	50	4.9	102	90	50	0	0	3	0
KANSAS CITY	57	38	77	29	47	8	.8	-.3	.4	.8	76	2.0	61	93	57	0	3	2	0
SAINT LOUIS	62	40	75	32	51	10	.4	-.3	.4	.5	36	5.3	98	87	50	0	3	3	0
SPRINGFIELD	62	38	75	30	50	7	1.4	-.7	1.1	1.4	92	3.4	64	89	48	0	2	2	1
MT BILLINGS	51	33	54	29	42	10	.3	.1	.3	.4	83	2.4	114	94	44	0	4	4	0
GLASGOW	46	32	50	29	39	15	T	-.1	T	T	93	1.0	100	97	63	0	4	1	0
GREAT FALLS	49	29	52	24	39	9	T	-.2	T	T	18	1.4	64	94	48	0	6	5	0
HAVRE	48	31	53	28	40	13	T	-.1	T	T	1.1	1.8	92	98	62	0	5	3	0
HELENA	48	29	51	24	39	8	.2	0	.1	.3	93	1.8	129	99	55	0	7	2	0
KALISPELL	47	28	51	25	38	7	.1	-.1	.1	.2	35	4.2	86	91	48	0	4	0	0
MILES CITY	51	32	54	29	41	12	T	-.1	T	.1	33	1.2	87	99	52	0	7	3	0
MISSOULA	49	29	51	26	39	6	.2	0	.1	.2	60	3.3	127	99	58	0	0	3	0
NE GRAND ISLAND	49	33	63	26	41	7	.8	.5	.4	.8	130	1.3	65	93	53	0	0	2	1
LINCOLN	52	35	62	33	44	9	1.7	1.3	1.1	1.7	204	2.3	92	91	53	0	0	5	2
NORFOLK	45	31	59	24	38	7	1.2	.9	.7	1.2	183	2.4	120	96	63	0	4	3	0
NORTH PLATTE	48	31	67	20	40	7	.4	-.2	.4	.5	98	1.6	114	92	56	0	5	3	1
OMAHA	48	32	79	29	40	6	1.6	1.1	1.2	1.6	185	2.5	100	94	46	0	4	4	0
SCOTTSDUFF	50	30	61	23	40	7	.5	.3	.4	.5	133	2.5	208	92	46	0	3	3	0
VALENTINE	44	30	56	26	37	7	.8	-.7	.4	.8	270	1.5	136	87	58	0	6	6	0
NV ELY	42	22	45	8	32	0	.6	-.4	.3	.3	112	.7	58	73	25	0	3	3	0
LAS VEGAS	64	45	69	40	54	0	.3	-.1	.1	.7	162	5.9	227	79	31	0	0	0	0
RENO	49	33	52	29	41	1	.1	-.1	.1	.4	120	1.5	79	89	44	0	5	6	1
WINNEMOCCA	48	31	53	25	39	1	.3	-.1	.1	.4	253	10.6	161	98	69	0	6	6	0
NH CONCORD	38	26	53	17	32	2	3.4	2.7	2.4	3.4	253	10.6	161	98	69	0	6	6	0
NJ ATLANTIC CITY	60	37	72	22	48	2	1.9	.9	1.7	1.9	94	9.1	103	92	52	0	2	3	0
NM ALBUQUERQUE	54	36	58	33	45	3	.1	0	.1	.1	46	1.4	127	80	33	0	0	4	0
CLOVIS	59	38	73	32	48	0	T	0	T	T	47	1.4	100	75	33	0	1	2	0
ROSWELL	65	41	76	35	53	2	T	0	T	T	27	1.2	171	62	27	0	0	5	2
NY ALBANY	40	27	46	14	34	2	4.5	3.8	3.2	4.6	328	10.8	177	99	68	0	5	5	2
BINGHAMTON	45	30	58	18	38	8	2.3	1.7	1.0	2.5	183	8.6	139	94	65	0	4	7	2
BUFFALO	48	30	65	21	39	8	1.1	-.5	.4	1.5	109	6.4	94	98	62	0	4	1	0
NEW YORK	49	35	66	28	42	3	1.8	.9	1.0	3.8	95	9.0	111	97	60	0	4	6	1
ROCHESTER	48	29	66	18	38	7	1.1	-.5	.5	1.7	138	5.8	100	98	66	0	4	5	2
SYRACUSE	45	28	59	15	37	5	2.0	1.3	.6	2.2	147	6.8	100	98	66	0	4	6	1
NC ASHEVILLE	61	40	75	25	51	9	2.0	.9	1.2	2.1	82	5.0	52	96	61	0	0	3	2
CHARLOTTE	68	48	81	29	58	8	1.8	.7	1.0	2.1	88	4.1	41	91	53	0	1	1	0
GREENSBORO	66	44	79	30	55	9	1.3	.4	.8	1.3	68	3.7	42	91	57	0	1	4	2
HATTERAS	68	50	77	23	59	9	.2	-.7	.2	.4	20	7.5	69	96	66	0	0	5	0
NEW BERN	73	50	82	27	62	10	2.7	1.9	2.7	2.9	153	7.9	80	90	50	0	1	1	1
RALEIGH	70	47	81	31	59	11	2.3	1.5	1.1	2.3	126	6.4	73	93	47	0	1	4	2
WILMINGTON	73	53	81	28	63	10	2.1	1.2	2.0	2.2	105	6.8	75	92	57	0	7	2	0
ND BISMARCK	47	27	51	22	37	13	.2	0	.1	.2	76	.8	62	97	50	0	7	2	0
FARGO	36	23	42	17	30	8	.1	-.1	0	.1	31	1.2	92	94	71	0	7	7	0
GRAND FORKS	36	21	47	9	29	9	0	-.1	0	0	10	1.0	63	96	76	0	7	0	1
WILLISTON	44	30	53	28	37	14	.6	.5	.6	.8	98	6.1	97	89	66	0	2	4	0
OH AKRON-CANTON	54	37	67	29	46	11	1.1	-.4	.5	1.5	98	6.1	89	89	57	0	0	3	4
CINCINNATI	62	42	71	35	52	12	1.5	.6	1.4	1.6	89	5.5	72	89	57	0	0	3	2
CLEVELAND	52	34	71	23	44	9	1.7	1.0	.5	2.0	145	7.3	122	90	67	0	3	4	1
COLUMBUS	58	39	71	33	48	10	1.6	.9	.8	1.9	129	6.4	100	87	61	0	0	3	3

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

Weather Data for the Week Ending March 15, 1986

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 MAR. 1	PCT. NORMAL SINCE MAR. 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
DAYTON	57	39	68	31	48	10	2.6	1.9	1.6	2.8	198	8.1	133	88	65	0	1	3	2
TOLEDO	51	33	65	27	42	8	2.8	1.9	1.6	1.1	97	4.6	92	93	66	0	3	3	0
YOUNGSTOWN	55	35	69	25	45	11	1.8	0.0	1.0	1.0	65	4.1	64	89	65	0	3	3	0
OK OKLAHOMA CITY	63	46	81	34	54	7	1.4	0.9	1.2	1.4	146	2.1	66	88	45	0	0	2	1
TULSA	61	44	77	36	53	5	2.0	1.3	1.8	2.0	144	3.2	71	88	49	0	0	3	1
OR ASTORIA	55	42	59	37	49	5	1.7	0.0	0.5	4.2	114	24.4	107	95	60	0	0	7	1
BURNS	44	29	49	22	37	1	0.5	-0.4	-1.1	1.2	787	5.5	550	91	—	0	0	6	0
MEDFORD	56	36	60	28	46	1	0.2	-0.2	-1.1	0.9	96	8.2	126	80	43	0	0	1	0
PENDLETON	54	38	59	33	46	3	0.2	0.0	-1.1	0.7	114	4.9	144	89	45	0	0	7	0
PORTLAND	57	44	62	39	50	5	0.2	0.0	-1.1	0.9	96	8.2	126	80	43	0	0	1	0
SALEM	54	38	59	33	46	3	0.2	0.0	-1.1	0.7	114	4.9	144	89	45	0	0	7	0
PA ALLENTOWN	57	41	64	35	49	5	0.5	-0.3	-0.2	1.2	65	11.2	93	90	53	0	0	0	0
ERIE	52	34	66	25	43	6	0.5	-0.5	-1.1	1.6	69	16.1	116	90	51	0	0	0	0
HARRISBURG	52	31	69	20	41	6	2.0	1.1	1.2	2.0	110	10.6	129	80	54	0	0	2	2
PHILADELPHIA	54	36	73	27	45	6	1.4	0.8	0.6	1.7	132	6.8	115	95	55	0	0	6	0
PITTSBURGH	59	37	73	22	48	8	3.1	2.3	1.8	3.1	184	9.8	132	82	55	0	0	5	2
SCRANTON	58	39	72	26	48	11	1.3	0.4	-0.5	1.3	71	8.8	113	87	50	0	0	1	2
RI PROVIDENCE	50	34	63	23	42	8	0.7	-1.1	-0.4	1.1	66	7.0	101	80	54	0	0	4	0
SC CHARLESTON	46	31	63	18	39	3	3.7	3.1	2.4	3.7	308	8.9	162	89	58	0	0	2	2
COLUMBIA	76	56	81	37	66	10	2.5	1.6	1.4	2.5	123	11.6	118	97	61	0	0	3	2
FLORENCE	77	50	84	28	63	10	3.0	1.9	1.7	3.0	134	9.1	102	98	58	0	0	7	2
GREENVILLE	79	54	86	30	67	13	2.1	1.7	1.4	2.1	81	4.6	42	92	44	0	0	3	2
SD ABERDEEN	67	46	81	26	56	6	1.7	-0.3	-0.8	1.7	102	4.3	48	92	43	0	0	1	1
HURON	37	27	43	22	32	7	0.3	-0.2	-0.2	0.5	59	4.3	37	94	64	0	0	2	2
RAPID CITY	39	27	47	23	33	6	1.7	-0.3	-0.2	0.5	131	1.6	107	99	78	0	0	7	0
SIoux FALLS	43	30	54	23	36	5	0.3	-0.2	-0.1	0.3	67	1.2	71	97	72	0	0	4	0
TN CHATTANOOGA	40	27	48	22	34	5	0.6	-0.1	-0.3	0.6	68	1.7	121	99	65	0	0	3	0
KNOXVILLE	70	47	78	32	58	10	0.5	-0.9	-0.4	0.5	69	1.2	57	94	68	0	0	4	0
MEMPHIS	70	45	80	24	58	10	1.1	-0.2	-0.6	1.2	20	5.3	41	97	53	0	0	1	0
NASHVILLE	72	50	82	44	61	11	1.2	0.0	1.2	1.2	43	6.1	53	92	50	0	0	4	1
TX ABILENE	70	50	77	40	60	13	1.7	-0.4	1.3	1.7	48	4.2	37	90	51	0	0	2	1
AMARILLO	74	48	84	34	61	7	0.4	-0.2	0.3	0.4	65	5.5	49	86	46	0	0	4	1
AUSTIN	62	38	76	29	50	5	0.7	-0.2	0.3	0.7	33	1.7	71	75	26	0	0	1	0
BEAUMONT	78	55	84	46	66	7	0.3	-0.1	0.2	0.3	108	1.4	100	79	35	0	0	3	0
BROWNVILLE	78	58	82	51	68	7	1.0	-0.4	1.0	2.2	33	1.9	39	84	35	0	0	1	0
CORPUS CHRISTI	85	63	88	56	74	7	0.3	-0.1	0.2	0.3	153	5.1	55	98	59	0	0	3	0
DEL RIO	82	59	85	49	70	6	0.6	-0.1	0.5	0.0	1.3	42	99	48	0	0	1	0	0
EL PASO	82	56	87	46	69	7	0.6	-0.1	0.5	0.0	2.9	81	92	44	0	0	0	0	0
FORT WORTH	63	44	74	40	54	7	0.4	-0.3	-0.3	0.4	9	1.9	119	60	18	0	0	0	0
GALVESTON	72	52	80	45	62	7	0.6	-0.1	0.3	0.6	52	3.0	80	67	24	0	0	2	0
HOUSTON	73	51	77	58	67	7	1.0	-0.5	1.0	1.0	94	3.4	54	90	42	0	0	4	0
LUBBOCK	79	59	85	48	69	9	0.8	-0.3	0.6	1.3	106	4.8	62	89	44	0	0	1	1
MIDLAND	65	42	79	35	54	5	0.4	-0.2	0.2	0.4	93	1.3	93	79	34	0	0	3	0
SAN ANGELO	71	43	83	36	57	3	0.3	-0.1	0.2	0.3	10	0.4	31	74	26	0	0	4	0
SAN ANTONIO	75	48	84	36	62	6	0.3	-0.1	0.2	0.3	81	1.2	67	69	21	0	0	1	0
VICTORIA	78	53	86	41	65	5	0.3	0.0	0.3	0.3	40	3.6	90	82	33	0	0	2	0
WACO	80	58	83	49	69	7	0.4	-0.1	1.0	1.0	147	2.6	54	95	45	0	0	4	0
WICHITA FALLS	75	51	79	41	63	7	0.4	-0.1	0.1	0.1	39	4.9	107	93	40	0	0	2	0
UT BLANDING	70	49	85	38	59	6	0.6	-0.2	0.2	0.6	49	3.9	107	93	40	0	0	4	0
CEDAR CITY	45	28	53	23	37	-1	0.6	-0.2	0.2	0.6	75	1.7	63	82	42	0	0	7	0
SALT LAKE CITY	46	30	52	25	38	2	0.6	-0.4	0.4	0.6	127	2.2	81	97	72	0	0	4	0
VT BURLINGTON	49	34	52	28	42	0	0.7	-0.5	0.5	1.0	209	1.7	89	99	52	0	0	6	0
VA NORFOLK	37	24	44	13	31	3	1.8	1.3	0.8	2.0	152	3.3	97	95	53	0	0	4	0
RICHMOND	70	45	82	26	58	11	0.3	-0.6	0.3	0.3	18	5.5	62	88	51	0	0	5	2
ROANOKE	68	44	80	27	56	10	0.8	-0.1	0.8	0.8	45	6.2	76	86	47	0	0	1	0
WA COLVILLE	62	42	73	31	52	7	1.2	-0.4	0.4	1.2	67	5.0	64	86	51	0	0	3	0
QUILLAYUTE	50	34	53	28	42	5	0.1	-0.2	-0.1	0.6	95	5.9	137	82	47	0	0	3	1
SEATTLE-TACOMA	53	40	56	35	46	4	2.9	-0.2	1.3	5.7	97	34.5	104	94	80	0	0	4	0
SPOKANE	55	41	60	36	48	4	0.3	-0.4	0.2	1.1	60	14.1	117	97	66	0	0	6	2
YAKIMA	48	32	51	27	40	4	0.5	0.0	0.2	0.5	86	5.7	119	87	49	0	0	4	0
WV BECKLEY	53	33	58	26	43	2	0.3	-0.2	0.2	0.6	142	3.6	144	98	59	0	0	2	0
CHARLESTON	59	41	71	34	50	10	1.6	-0.7	1.2	1.9	95	6.1	71	80	49	0	0	5	0
HUNTINGTON	69	47	79	38	58	15	1.1	-0.2	0.5	1.7	90	8.2	96	84	39	0	0	5	1
PARKERSBURG	67	47	75	39	57	13	1.1	-0.1	0.4	1.3	67	6.2	78	84	51	0	0	4	0
WI GREEN BAY	64	42	75	30	53	12	1.4	-0.5	0.6	1.7	87	6.8	78	86	55	0	0	4	0
LA CROSSE	36	25	38	14	31	4	0.6	-0.9	0.9	1.2	151	2.6	87	98	73	0	0	1	0
MADISON	39	28	43	20	34	5	0.8	-0.4	0.3	0.7	3	1.4	54	91	68	0	0	5	1
MILWAUKEE	40	27	48	10	34	4	0.3	-0.7	0.7	0.8	89	4.5	150	97	75	0	0	3	1
WAUSAU	43	31	54	22	37	4	1.1	-0.6	1.1	1.1	106	6.0	150	95	72	0	0	4	0
WY CASPER	37	24	41	14	31	6	0.2	-0.2	0.1	0.5	67	1.9	70	94	64	0	0	7	0
CHEYENNE	48	26	53	22	37	7	0.4	-0.2	0.3	0.4	88	1.6	107	94	40	0	0	4	0
LANDER	47	27	52	21	37	6	0.3	-0.1	0.2	0.3	74	0.9	75	90	40	0	0	2	0
SHERIDAN	49	29	53	25	39	8	0.2	-0.1	0.2	0.3	62	1.6	100	77	33	0	0	7	0
PR SAN JUAN	51	29	53	25	40	9	0.2	-0.2	0.2	0.2	40	2.0	100	93	45	0	0	6	0
	84	71	85	78	80	1	1.0	-0.5	1.0	0.9	99	4.4	73	91	62	0	0	1	5

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

Heating Degree Day Data Weekly Summary

LAST DATE OF DATA COLLECTION PERIOD IS 3-15-1986

ACCUMULATIONS ARE FROM JULY 1

\*\* = NORMAL LESS THAN 10% OR RATIO INCALCULABLE

CLIMATE ANALYSIS CENTER-NHC-NWS-NOAA  
ASSESSMENT AND INFORMATION SERVICES CENTER-MESD18-NOAA

Table with columns: STATE CITY, CALL WEEK, WEEK DEV, WEEK FROM, CUM TOTAL, CUM FROM, CUM FROM, CUM FROM, CUM FROM. Lists cities and their heating degree day data for various weeks and cumulative totals.

## National Agricultural Summary

March 10 to 16, 1986

**HIGHLIGHTS:** Precipitation slowed field activity and seeding across nearly all the eastern half of the Nation, especially in the Southeast. The warm temperatures and moisture improved small grain growth in the Southeast. However, most Great Plains States need moisture. Jointing and some heading was prevalent in the southeast. Wheat was jointing as far north as Oklahoma. Soil moisture was adequate throughout the Nation except in the Plains States where moisture was becoming short.

Corn planting progressed rapidly in the Southeast and in Texas. Cotton seeding moved at a brisk pace in Arizona and began in Texas with 50 and 4 percent (%) of the acreage seeded, respectively. Rice seeding was underway in Louisiana. Sorghum was 36% seeded in Texas. Tobacco transplanting was underway in Georgia and Florida. Livestock was mostly good. Supplemental feeding continued but at a much slower pace.

**SMALL GRAINS:** Wheat and other small grains benefitted from moisture and above-normal temperatures throughout the southeast. However, more moisture is needed in the Plains States. Wheat was mostly good to fair.

In Texas, small grains continued to suffer from the lack of moisture. Growth slowed in the Plains and Cross-Timbers. Insufficient moisture caused wilting in south Texas. In the Blacklands, wheat reached the boot stage. Crop condition was mostly good to fair. Illinois wheat growers expect some acreage loss from freeze and heave damage. Rain enhanced wheat growth in Oklahoma. Alfalfa weevil infestations plagued southwest wheat and control measures were initiated. Oklahoma's wheat was mostly good with 15% of the acreage jointing.

Despite minimal precipitation and windy conditions, wheat growth progressed in Kansas. Wind damage has been light to moderate. Light infestations of soil-borne Mosaic disease were present. Oat and barley seeding reached 50% completion. Nebraska's wheat was good to fair. Small grains were greening in Ohio. Arizona's wheat and barley were good to excellent with 70% of the acreage jointing, 5 points ahead of last year. Heads were forming on 20% of the acreage. Small grains were good in California. Heavy rain and wind caused some lodging.

**OTHER CROPS:** Corn planting continued spreading across the southeast. Seeding reached 51% completion in Texas, 28 points ahead of normal.

Louisiana increased their seeding progress to 36% compared with the 19% average. In Mississippi, corn seeding lagged slightly behind last year.

Sorghum seeding continued in Texas. Seeding progressed to 36% finished compared to the 21% average pace. Light rain helped Blackland's fields. Planting was active in many areas despite dampness. Land preparation was underway in the West as planting neared.

Cotton seeding moved east with 4% of Texas cotton in the ground. Planting increased in

coastal Bend, and in the Rio Grande Valley and should begin in central areas and in the Blacklands soon. Half of Arizona's cotton acreage was seeded. Seedbed preparation pre-irrigation, and herbicide applications moved along in Arizona and California.

Tobacco transplanting was underway in Florida and Georgia. Kentucky tobacco producers prepared tobacco beds.

**FRUIT AND NUTS:** South Carolina peaches were in full bloom in the Ridge area. Crop prospects still look good. Peach progress was far ahead of schedule in Texas. Blooming and leafing occurred as far north as the Low Plains. Fruit set continued in east Texas.

Rain halted irrigation in most Florida citrus groves. New growth was abundant and the bloom cycle progressed towards full open bloom. Many young Valencia and Navel orange trees reached full open bloom. Early and midseason orange harvest was nearly finished. Grapefruit movement was active. Citrus producers irrigated in Texas. In east and central Texas, pecan trees were budding ahead of schedule. Sweet orange and Kinnow tangerine harvests neared completion in central Arizona. Lemon picking slowed, but Valencia orange and grapefruit harvests increased. Hail and wind damaged stone fruit in the Fresno and Tulare areas of California. Plums, some grapes, and almonds were affected most between Kerman and Lindsay. Cherries bloomed and grapevines showed new growth. Prunes began petal fall. Wet weather slowed citrus harvest but a high volume of lemons were exported. Some large Navel oranges were abandoned because of granulation. Almond sets were erratic or light in several areas.

**VEGETABLES:** Florida's vegetable crops generally made good progress. There were a few instances of hail and some low spots in fields flooded. Wet fields slowed harvest in the southern areas. Most vegetable supplies were from the Dade County and Pompano areas. Total shipments increased due to higher volumes of cabbage, carrots, cauliflower, celery, sweet corn, cucumbers, eggplant, lettuce, squash, strawberries, and tomatoes. Vegetable planting and transplanting continued in Texas. Sweet corn and watermelons were planted in eastern areas and potatoes and onions were seeded in the High Plains. Vegetable harvest was active. In Arizona, lettuce harvest began in the Harquahale and Rainbow Valleys. Lettuce harvest advanced in Yuma and in Parker-Poston. Spring lettuce progressed well. An assortment of vegetables were harvested in California, consisting mostly of artichoke, asparagus, broccoli, carrots, cauliflower, celery, and lettuce. Sweetpotato hotbed planting was 90% finished. Processing and fresh market tomatoes were seeded in the Central Valley.

**PASTURES AND LIVESTOCK:** Moisture and warmth improved pastures in the Southeast. Pastures began greening in northern areas with temperatures above normal. Livestock were mostly good. Warm temperatures eased supplemental feeding.

## State Summaries of Weather and Agriculture

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

**ALABAMA:** Temperatures ranged 7 to 100 above normal. Rainfall ranged from 4.00 to 6.00 in. across State.

Days suitable for fieldwork 4.9. Soil moisture 24% short, 52% adequate, 24% surplus. Field progress on schedule. Livestock 8% poor, 55% fair, 35% good, 2% excellent. Pasture 37% poor, 43% fair, 20% good. Wheat 2% very poor, 5% poor, 28% fair, 63% good, 2% excellent. Feed supply 71% short, 29% adequate. Stored feed 22% short, 71% adequate, 7% surplus. Primary activities: General farm chores, caring of livestock and poultry, machinery repair, planting corn and vegetables, soil testing, stocking fish ponds.

**ARIZONA:** Late winter storm on 10th with thunderstorms, strong winds brought moderate to heavy precipitation. Snow level 6,000 ft. with amounts of 2 to 12 in. over central mountains; locally heavy rain to lower elevations. Cold front 12th spread more moisture, colder air, with snow level lowering to 4,000-5,000 ft. Another disturbance 13th continued cold, wet regime. Sunny skies, warmer daytime temperatures returned 15th. Total moisture amounts for week 0.50 in. over extreme north, extreme west 0.50 to 1.50 in. elsewhere. Average temperatures varied from 5° below to 10° above normal.

West cotton planting advanced with 50% of acreage seeded. Seedbed preparation, pre-irrigation, herbicide applications took place, 70% of seedbeds prepared. Fieldwork slowed by rain. Alfalfa progressing well. First cutting active west. Aphids, weevils sprayed. Weed, insects programs light to moderate. Sheep grazing mostly light to moderate, except heavy west. Corn seedbed preparation continued. Sorghum field activities underway limited scale. Wheat, barley good to excellent. Jointing advanced western, central acreages; 70% of acreage jointing, 5 points ahead of last year. Wheat, barley 20% heading stage. Most rapid progress west. Lettuce packing continued Yuma, Parker-Poston. Lettuce harvest began Harquahala, Rainbow Valley. Spring lettuce crop progressing well Willcox. Other mixed vegetables packed Yuma, Salt River Valley. Spring potato, dry onion crops progressing well. Potato planting underway southeast. Sweet orange, Kinnow tangerine harvests finishing up central areas. Lemon picking nearly complete. Valencia orange, grapefruit harvests increased.

**ARKANSAS:** Temperatures above normal with warmer weather during first part of week. Thunderstorms 11th, 12th with rainfall statewide. Temperature extremes 30 to 83°. Precipitation 0.86 to 3.91 in.

Wet weather stimulated fertilizer on wheat, pastures.

**CALIFORNIA:** Several rapidly moving weather systems passed through State with about 24 to 36 hour delay between storms. Clouds, cooler air brought by low pressure systems dropped temperatures from above normal readings of last week to below normal temperatures by end of week. Effect statewide brought weekly averages to near seasonal normals. Rainfall plentiful with many sites receiving over 2.00 in.

Rains continued. Small grains good. Heavy winds some lodging. Small grains green chopped. Cotton; corn seedbed preparation continued. Wet conditions delayed beet harvest. Hail, wind damage Fresno and Tulare between Kernman, Lindsay. Damage to store fruit, especially plums, some grapes, almonds. Cherries bloomed. Grapevines pushed new growth. Petal fall prunes. Citrus harvest slowed due wet weather. Lemon exported high volume. Some large Navel oranges not picked due to granulation. Almond sets erratic or light several areas. Some early walnut varieties bloomed. Artichoke salinas very heavy, running 3 to 4 weeks ahead, variable quality. Asparagus progressing Firebaugh District, Delta good quality and price. Desert harvest slowing toward completion. Broccoli moderate and heavy Salinas, Santa Maria, respectively, variable quality. Harvest continued Central Valley. Carrot active Imperial Valley -Coachella Valley. Cauliflower moderate variable quality both Salinas, Santa Maria. Harvest nearly over desert. Celery finished Santa Maria, Imperial Valley - Coachella Valley areas. Lettuce active Palo Verde Valley, wide range quality. Weather slowed lettuce growth West side but ready for harvest 21th. Fall potato movement from storages Tulelake-Butt Valley fulltime moderate demand and price. White Rose and Red variety harvest fell behind Perris-Hemet area due to rain, quality average or less. Sweetpotato hothead planting 90% complete Merced, some emergence. Fumigation interrupted rain. Tomatoes fresh market and processing continued planted Central Valley. Growers busy weed control, sprinkling prevent soil crusting problems seedlings. Range, pasture grass growth rapid result of recent rains and warm weather. Livestock excellent. Stock ponds full. Supplemental feeding declining.

**COLORADO:** Temperatures averaged 2 to 100 above normal. Precipitation totals average none to 1.20 in.

Days suitable for fieldwork 4.6. Soil moisture 8% very short, 45% short, 40% adequate, 7% surplus. Limited seeding of small grains. Winter wheat 3% poor, 24% fair, 56% good, 17% excellent. Livestock good condition; range and pasture fair to good. Calving, lambing progress near normal.

**FLORIDA:** Warm humid air with near summertime conditions. Temperatures 8° above normal; some 15° warmer than previous week. Slow moving cold front brought heavy thunderstorms last half of period. Rainfall amounts averaged 2.00 to 4.00 in.

Soil moisture adequate. Corn planting continued active. Tobacco transplanting underway. Land preparation for other spring crops active. Small grains favorable progress. Sugarcane harvest virtually complete. Young cane good growth. Central PENINSULA pastures benefited from warm temperatures, abundant rainfall; condition mostly fair. Panhandle pastures remained mostly fair to good with excessive moisture few areas. More warm temperatures needed to stimulate grass growth. Southern areas pastures remained poor to fair with rainfall needed some east coast areas. Cattle fair to good statewide. Rain 3 to 4 days

most areas of citrus belt; irrigation discontinued. Abundances of new growth, blooms cycle progressed toward full open bloom; many young tree Valencia, Navel groves full open. Grapefruit bloom progressed behind heavy foliage. Early, midseason orange harvest almost over; grapefruit movement active. Frontal systems early, late week brought locally heavy rain, strong winds over most vegetable producing areas. Some low spots in fields flooded; few instance of hail most serious weather effects. Temperatures mostly warm with lows 50s to 60s; highs low to upper 80s. Crops generally made good progress. Wet fields slowed harvest southern section. Supplies most vegetable currently from Dade County, Pompano areas. Southwest area currently providing light supply, expected increase last half March. Increased total shipments primarily due to higher volumes cabbage, carrots, cauliflower, celery, sweet corn, cucumbers, eggplant, lettuce, squash, strawberries, tomatoes offsetting decreases snap beans, Chinese cabbage, escarole, peppers, potatoes, radishes.

**GEORGIA:** Warm wet week. Three days of rain 1.00 to 2.00 in. range with more than 4.00 in. over west central. Temperatures 9° above normal. Extremes 87° Waycross 12th to 27° Blairsville on morning of 17th.

Soil moisture mostly adequate to surplus. Main activities: Land preparation, corn planting. Tobacco transplanting just underway extreme south. Wheat, rye other small grains mostly good to excellent. Pasture fair to mostly good. Cattle fair to mostly good. Hogs good.

**Hawaii:** High pressure system north of State brought gusty northeast winds up to 30 mph. Scattered showers from mid week continuing into weekend some locally heavy.

Days suitable for fieldwork 7.0. Unusually low rainfall levels this winter initiated water used restrictions on several islands. Sugar plantations on Kauai hard hit resulting some lay offs. Anthurium production on Hawaii island reduced levels. Papaya flower development and fruit setting also affected.

**IDAHO:** Wet week over most of State. Most locations reported 0.25 in. above normal. Precipitation except extreme north which below normal. Temperatures 5 to 8° above normal.

Fieldwork gained very little momentum as wet conditions halted what little progress had been made. Limited plowing, fertilizer application accomplished as weather permitted. Livestock good with calving, lambing losses low due to mild temperatures. Hay, roughage supplies short but should be adequate if mild weather persists. Sorting, shipping of seed potatoes continued.

**ILLINOIS:** Temperatures averaged 2 to 9° above normal. Highs averaged mid 40s north to low 60s south. Precipitation totals averaged 0.15 to 1.92 in., heaviest southern third.

Soil moisture 61% adequate, 39% surplus. Winter wheat 8% poor, 43% fair, 49% good. Some acreage losses expected from freeze, heave damage; too early to assess amount, if any. Livestock good, aided by mild temperatures. Hay supplies adequate.

**INDIANA:** Temperatures 3 to 6° above normal north and 6 to 8° above south. Low 70s south with highs 60s. Lows upper 20s and lows 30s. Above normal rainfall central and south. Totals from

less than 0.30 in. north to 1.00 or 1.50 in. central and 2.00 in. south.

Muddy fields limited outside activities. Conditions permitted light tilling, spreading fertilizer and manure. Activities: Attending meetings, making plans, readying equipment, caring for livestock and usual chores. Wheat greening up, fair to good. Livestock good.

**IOWA:** Temperatures averaged from 6° above normal north to 9° above normal south, precipitation near or above normal nearly all of State. Precipitation, mainly occurring 12th, heaviest west central, central, and southwest districts where 1 in. amounts were common. Temperatures reached record highs 9th southern State with 75° Shenandoah, 74° Burlington, and 72° Des Moines. Snow cover practically gone 15th, 16th all areas except extreme northeast corner of State. Livestock good; farmers busy with normal winter chores, livestock care, and planning spring fieldwork.

**Kansas:** Precipitation averaged 0.10 to 0.20 in. west, 0.60 to 0.90 in. central and east. Temperatures averaged 42° northwest to 49° southeast, ranging 4 to 8° above normal.

Days suitable for fieldwork 4.5. Soil moisture 42% short, 46% adequate, 12% surplus. Wheat growth progressing despite minimal precipitation, windy conditions. Wind damage light to moderate. Erosion control measures taken. Light infestations soil-borne Mosaic. Fertilizing wheat, spraying mustard. Oats, barley seeding 50% complete. Pasture condition fair west, good elsewhere. Need rain for growth. Feed grains adequate, hay surplus. Calving proceeding well.

**KENTUCKY:** Unseasonably mild. Daily mean temperatures averaged mid- 50s, 5 to 10° above seasonal normals. Rainfall amounts around 2.00 in. west and central to a little over 1.00 in. far east.

Tobacco beds being prepared. Some grass seeding, fertilizing as weather and soil conditions permit. Soil moisture ample to surplus. Livestock needs being met primarily through supplemental feeding.

**LOUISIANA:** Temperature ranged 6 to 9° above normal. Temperature extremes 39°; 86°. Rainfall averaged from 0.10 to 2.00 in. across State.

Days suitable for fieldwork 4.3. Soil moisture 14% short, 71% adequate, 15% surplus. Spring plowing 49% complete, 24% 1985, 28% avg. Corn 36% planted, 27% 1985, 19% avg. Rice 6% planted, 4% 1985, 5% avg. Winter wheat fair to good; 5% headed, 2% 1985, 1% avg. Sugarcane fair to good. Vegetables, pastures fair; livestock fair to good. Major farm activities: Spring plowing; planting corn, rice spring gardens; applying fertilizer.

**MARYLAND & DELAWARE:** **Maryland:** Temperatures averaged 3° above normal over State; lowest temperature -6° Oakland; highest temperature 79° Salisbury. Precipitation averaged 1.02 in., ranging from 0.41 to 1.97 in.

Fieldwork 1.0 day suitable. Topsoil moisture surplus; subsoil moisture adequate. Small grains good. Main activities: Topdressing small grains, preparing for planting season, and tending to calving.

**Delaware:** Temperatures averaged 4° above normal over State; lowest temperature 12° Wilmington; highest temperature 73° Wilmington, Milford, and Dover. Precipitation averaged 1.17 in., ranging from 0.80 to 1.88 in.

Fieldwork 1.0 day suitable. Topsoil moisture surplus, subsoil moisture adequate. Small grains good. Main activities: Topdressing small grains, preparing for planting season, and tending to calving.

**MICHIGAN:** Mild temperatures and moderate precipitation across State. Temperatures averaged 6° above normal. Snow cover melted across southern lower Peninsula. Widespread flooding across State due to snowmelt and moderate rainfall.

Farm activities slowed. Fields muddy. Fruit tree and grape vine pruning continued. Crop and livestock marketing slowed by wet weather. Maple syrup tapping full swing. Farmers attending auctions and signing up for ASCS programs. Calving and lambing active. Feed supplies good. Small grains, hay fields saturated with water.

**MINNESOTA:** Temperatures ranged 5 to 12° above normal. Temperature extremes 20; 54°. Precipitation averaged 0.10 to 0.12 in. below normal, northern third; 0.10 to 0.37 in. above normal elsewhere. Greatest weekly precipitation 1.88 in. Snow depth weeks end averaged 3 to 18 in.

Thawing snow and soft ground prevented access to fields. Dormant crops protected by snow cover expect southwest counties. Livestock good.

**MISSISSIPPI:** Average temperatures 5 to 11° above normal. Extreme 35°; 84°. Rain came to most areas of State. Greatest 24-hour total 2.60 in.

Fieldwork 3.3 days suitable, 4.9 1985, 3.9 avg. Soil moisture 16% short, 56% adequate, 28% surplus. Rainfall very beneficial. Main activities: Land preparation, planning. Corn 13% planted, 15% 1985. Watermelons 10% planted, 4% 1985. Wheat good to fair; 39% jointing, 43% 1985, 23% avg. Pasture fair. Livestock good to fair.

**MISSOURI:** Temperatures 6 to 10° above normal. Rains 10th to 12th averaged nearly 3.00 in. over Bootheel, around 1.50 in. along southern one-third. Central and north averaged 0.50 in.

Fertilizing and some tillage being done, but further drying needed before fieldwork become general. Livestock doing well, roughage supply more than adequate.

**MONTANA:** Temperatures very mild, 5° above normal west, 8 to 13° above elsewhere. Precipitation moderate west, southwest and south central, amounts remainder of State.

Winter wheat fair to good. Wind damage light to moderate. Major activity calving and lambing approaching halfway point. Mild weather helping ranchers stretch hay supplies.

**NEBRASKA:** Wet, mild. Precipitation ranged from 0.50 in. Panhandle and southwest to as much as 2.00 in. elsewhere. Temperatures averaged 4 to 7° above normal.

Wheat good to fair. Rain should help improve topsoil, subsoil moisture. General chores and livestock care.

**NEVADA:** Consistent with fickle spring weather, weather pattern reversed itself, moving from much above normal temperatures with relatively dry

conditions to a wet and cool pattern. Continuing series of storms dropped precipitation in form of snow higher elevations, rain valley floors. Temperatures averaged near or just below seasonal normals all areas except extreme south.

Fieldwork again delayed by wet fields, strong winds. Inclement weather not ideal for calving, lambing, feeding operations.

**NEW ENGLAND:** Temperatures averaged from 35 to 40° over south, about 30° over north, 20° over northern Maine. About normal for this time of year. Precipitation (rainfall and melted water equivalent of snowfall) averaged between 2.00 to 3.00 in., except Maine amounts averaged between 1.00 to 2.00 in.

Sugaring operations active, shipping of milk, apples, potatoes still in progress.

**NEW JERSEY:** Temperatures averaged much above normal. Extremes 23°; 76°. Weekly rainfall averaged 2.18 in. north, 1.82 in. central, 1.69 in. south. Heaviest 24-hour total 1.67 in. on 14th, 15th. Estimated soil moisture, of percent in field capacity, averaged 90% north, 89% central, 82% south. Four inch soil temperatures averaged 32° north, 39° central, 45° south.

Soil preparation advanced early before being halted by wet weather. Planting of peas, onions and potatoes beginning. Fruit pruning nearing completion.

**NEW MEXICO:** Rain, snow statewide. Precipitation none to 0.92 in., Central Valley and Highlands. Average weekly temperatures near normal. Temperatures 5°, northern Mountains, to 78°, southeastern Plains.

Days suitable for fieldwork 6.7. Soil moisture 62% short, 38% adequate. Alfalfa 50% fair, 50% good. Barley 50% fair, 33% good, 17% excellent. Irrigated wheat 29% fair, 57% good, 14% excellent. Dryland wheat 25% poor, 50% fair, 25% excellent. Onions 100% good. Lettuce 100% good. Cattle 23% fair, 77% good. 89% good.

**NEW YORK:** Temperatures below normal 9th, normal or a little above rest of week. Precipitation of about 0.30 in. Upstate 9th, dry until 13th, rain through 15th. Parts of east had nearly 3.00 in. rain 14th into 15th. Precipitation light west.

Farm activities included tending livestock, repairing machinery and general farm chores.

**NORTH CAROLINA:** Temperatures averaged 7° above normal mountain region; 9 to 12° above normal Piedmont, coastal plain regions. Precipitation ranged from 0.20 to 4.46 in.

Days suitable for fieldwork 5.0. Soil moisture 5% very short, 37% short, 54% adequate, 4% surplus. Wheat 32% fair, 68% good. Oats 39% fair, 61% good. Barley 4% poor, 30% fair, 66% good. Rye 34% fair, 66% good. Pasture 15% poor, 37% fair, 48% good. Tobacco beds 35% fair, 65% good. Supplies: Feed grains 3% short, 92% adequate, 5% surplus. Hay, roughage 2% short, 95% adequate, 3% surplus. Activities: Topdressing small grains, preparing and seeding tobacco beds, spreading lime, land preparation, pruning fruit trees, tending livestock, cutting firewood, transplanting Christmas trees, planting Irish potatoes, planting cabbage, mowing, conservation work, machinery repair and other farm maintenance.

**NORTH DAKOTA:** Mild second week of March. Temperatures averaged 6° above normal northeast to

13° above normal northwest. High 54° central on 9th, west central on 15th. Precipitation in form of rain averaged slightly above normal northwest, west central, southeast; below normal elsewhere. Most precipitation reported 0.58 in. northwest.

Livestock generally good. Warmer weather lessening stress on animals, feed supplies. Snow continued to melt at good pace; flooding minimal. Fall seeded crops generally good.

**OHIO:** Temperatures 5 to 10° above normal. Extremes mid 20s to mid 70s. Precipitation widespread; 1.00 in. north, 1.50 to 2.50 in. south. Bare soil temperatures 40s; sod temperatures upper 30s to low 40s.

Small grain grass greening. Rain delayed working soils.

**OKLAHOMA:** Temperatures averaged 4° above normal north central, central to 8° above normal southeast. Precipitation averaged 0.19 in. Panhandle to 1.60 in. southeast.

Days suitable for fieldwork 4.4. Topsoil moisture 45% short, 45% adequate, 10% surplus. Subsoil moisture 15% short, 85% adequate. Wheat 19% fair, 80% good, 1% excellent. Wheat 15% jointing, 10% 1985, 15% avg. Wheat growth enhanced by rain most areas. West central fields still dry. Alfalfa weevil infestations plague southwest, control measures initiated. Pastures fair; forage supplied 40% short, 60% adequate. Cattle good, marketing increasing, prices lower most classes.

**OREGON:** Temperatures above normal; west 1 to 50 above normal except small section in southwest valley was 1° below. East of mountains 1 to 40 above normal except extreme south central near normal. Heaviest precipitation along coast and Cascade range. Coastal areas received 1.50 to 2.50 in.; western interior 0.25 to 1.00 in. most areas; Cascade Mountains received 2.20 in. to 3.20 in.; east precipitation mostly between 0.10 to 0.50 in. except Ontario 0.72 in.

Soil moisture adequate to surplus. Winter grains, grass seed and clover generally good, starting to grow west. Eastern winter wheat fields good to excellent; spraying and fertilizing when weather permits. Barley has been slower to green-up, some snow mold reported. Spring tillage started east. Alfalfa received herbicide and fertilizer between showers. Caneberry training completed west; strawberries developing normally; herbicide and fertilizer applied. Cherries green bud stage at Dalles. Green pea planting started west; other vegetable seeding awaiting drier soils. Livestock good. Calving continued high eastern elevations. Some cattle moved to early spring ranges. Range, pasture mostly good.

**PENNSYLVANIA:** Unseasonable mild temperatures and abundant rainfall prevailed across State. Average temperatures 43°, 9° above normal 34°. Highest temperature 75° Lancaster 2nd. Precipitation averaged 2.10 in., 1.33 in. above normal 0.77 in. Most rain 5th, 6th. Activities for week: Caring for livestock and other early spring activities.

**PUERTO RICO:** Island average rainfall 0.68 in., 0.11 in. above normal. Highest weekly total 2.67 in. Highest 24-hour total 2.47 in. Total rainfall 0.76 in., plus 0.27 in. Temperature average about 76 to 77° on coasts and 70 to 74° interior divisions. Mean station temperature ranged from 63 to 78°. Extremes 53°, 93°.

**SOUTH CAROLINA:** Weeks weather warm, humid. Temperatures averaged 8 to 10° above normal. Temperatures dipped late week following cold front. Rainfall preceding and accompanying cold front averaged 1.00 to 2.00 in., - exceeded 3 in. some areas.

Land preparation continued with rainfall providing much needed relief to the dry soil conditions across State. Rainfall also helped condition of small grains. Peaches Ridge reported in full bloom with crop prospects still looking good. Tobacco plantbeds still good with transplanting time fast approaching.

**SOUTH DAKOTA:** Average temperatures 4 to 11° above normal. Extremes 12°, 75°. Precipitation mostly above normal. Snow cover 4 in. or less most of northeast, although 5 to 15 in. parts of northeast and east central; water content high.

Livestock mostly good. Calving, lambing continued. Winter grains good. Major agricultural activities include caring for livestock, attending farm meetings, planning spring planting.

**TENNESSEE:** Temperatures averaged 8 to 12° above normal. Average high; mid 60s, lower 70s. Average low; mid to upper 40s. Precipitation above normal. Heavy rains received midweek, 1.50 in. common.

**TEXAS:** Series pacific fronts moved into State throughout week. Scattered showers, thunderstorms accompanied most systems, mainly north central, Panhandle, coastal areas. Rainfall below normal all districts, except High Plains, slightly above average. Lower valley recorded no rainfall. Temperatures above normal all districts; lower valley much above normal.

**Crops:** Wheat 78% normal, 84% 1985. Wheat 7% poor, 29% fair, 56% good, 8% excellent. Small grains continued suffer from lack of moisture many areas despite light showers. Growth slow Plains, Cross-Timbers, some greenbug, rust problems. Irrigation continued where possible. Some wheat fields nearing jointing stage, cattle pulled off fields for grain. Blackland fields boot stage, making fair growth. Rain needed central, south to insure further growth. Some minor wilting south from lack of moisture. Overall condition would improve with good soaking rain. Corn 51% planted, 20% 1985, 23% avg. Grain sorghum 36% planted, 14% 1985, 21% avg. Planting corn, grain sorghum active many areas despite damp conditions. Light rain Blacklands helped planted fields to stands. Stands developing central, south, valley. Land preparations about complete Plains as planting time nears. Pre-watering fields for corn planting. Cotton 4% planted, 1% 1985, 2% avg. Planting increasing Coastal Bend, Rio Grande Valley. Planting began central, Blacklands couple of weeks if not sooner.

**Commercial Vegetables:** Rio Grande Valley, harvest cabbage, carrots, other greens continued. Onion harvest increased. All melon crops making good progress. Irrigating many citrus groves continued. San Antonio-Winter Garden, harvest continued spinach, carrots, cabbage. Watermelons, up to good stands, Onion progress good. East, planting sweet corn, watermelons, other spring crops continued. Bedding sweetpotato land underway. High Plains, planting potatoes, transplanting onions continued. Trans-Pecos, land preparation chiles about complete. Onion transplanting almost complete. Cantaloup planting

increasing. Peach progress far ahead of schedule. Blooming, leafing occurring as far north as low Plains. Many growers spraying for insects. Fruit set continued East. Pecan trees many areas central, east budding ahead of schedule under warmer temperatures.

**Range and Livestock:** Growth most pasture, range grasses remains slow because dry conditions. Light rains, damp conditions helped green up many ranges; relief only temporary. Small grains grazing provide best forage, some supplemental feeding continuing. Livestock making good gains small grain pastures. Most livestock good. Marketing steady. Goat shearing continued Hill Country.

**UTAH:** Temperatures above normal, ranging 2° above southwest to 10° above northeast. Moderate to very heavy precipitation except southeast light. Very heavy precipitation north central, northern mountains, Dixie.

Rain, cooler weather stopped fieldwork and slowed growth of fall seeded grains and fruit. Fruit will apparently mature unless temperatures drop below 20°. Most areas welcomed moisture - planting will begin when warmer weather returns. Livestock good shape for spring.

**VIRGINIA:** Quick warm-up beginning of period. Unseasonably warm through mid-period. Cooler and wet through end of period. Temperatures averaged 5° above normal. Precipitation averaged 0.50 to 0.75 in., greatest amounts west.

Days suitable for fieldwork averaged 3.6. Topsoil moisture ratings 6% short, 56% adequate, 36% surplus. Small grain topdressing active. Small grains good to excellent. Flue-cured tobacco planted seeding over 90% complete. Burley tobacco planted seeding just beginning.

Tobacco planted good to excellent. Pasture and hay land overseeding, fertilizing active. Pasture, alfalfa good to excellent. Spring plowing, land preparation active. Fruit bud development good, some pruning active. Peach good to excellent. Potato planting active east, over 25% planted. Livestock good to excellent. Feed supplies mostly adequate. Other activities: Taxes, meetings, sign-up for ASCS programs.

**WASHINGTON:** Mostly cloudy throughout State. Rain almost every day, but weekly accumulated minimal. Temperatures mixed.

Days suitable for fieldwork less than 4.0. Soil moisture 100% adequate. Range, pasture 75% short, 25% adequate. Hay supplies 65% short, 45% adequate. Field preparations picking up. Daffodils being harvested. Lambing winding down.

**WEST VIRGINIA:** Temperatures averaged 8 to 12° above normal. Low 18° Greenbank; high 82° Creston. Average temperature 49°. Precipitation 0.12 to 1.70 in. above normal. Average precipitation 1.80.

Days worked 1.3. Soil moisture surplus to adequate. Feed supplies adequate to short.

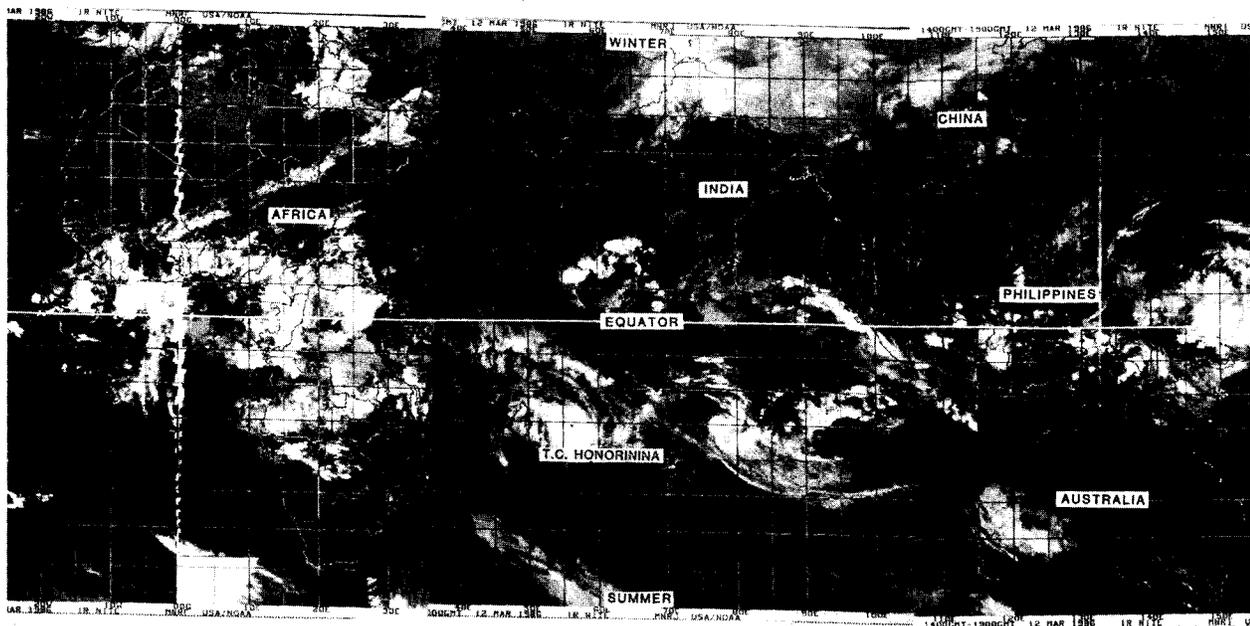
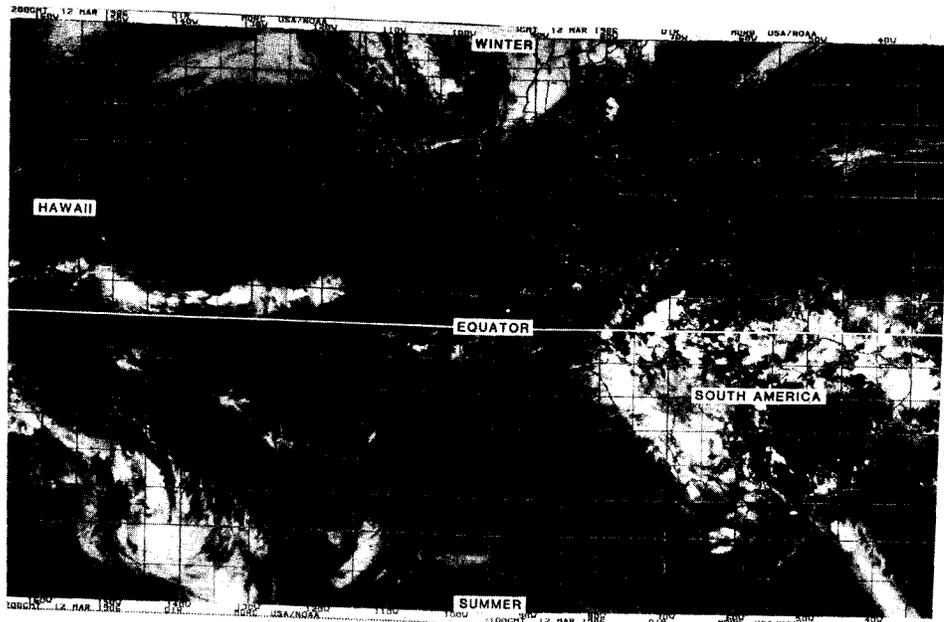
**WISCONSIN:** Temperatures seasonable. Snow 2 to 4 in., wet snow southern and eastern part of State on 11th. Frost depth averages 5 in. Rain, fog, freezing drizzle 10th, 12th, 13th.

About 20% of corn remained to be harvested.

**WYOMING:** Temperatures above normal. Below normal precipitation. Winter wheat remains good. Spring planting preparation continue. Barley seeding begun north central region. Livestock mostly good. Calving, lambing, and shearing continue. Supplemental feeding continues.

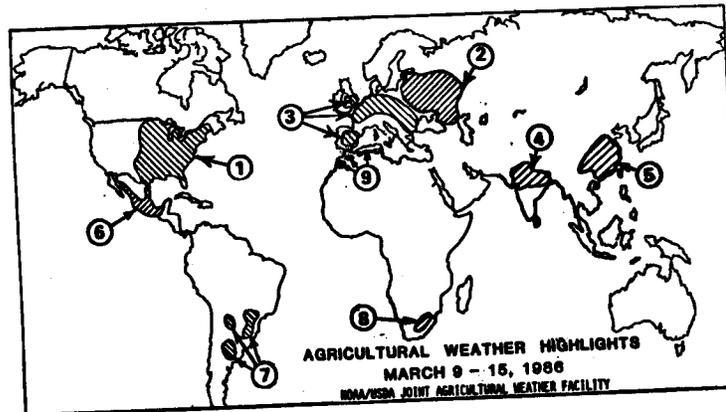
# GLOBAL WEATHER SATELLITE IMAGE

March 12, 1986



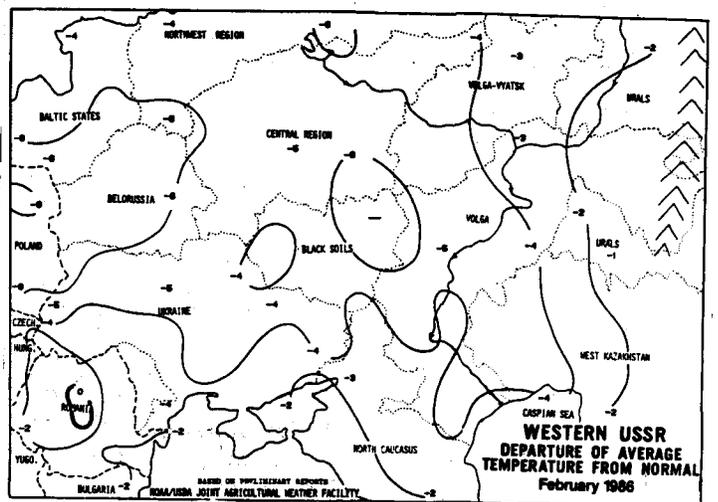
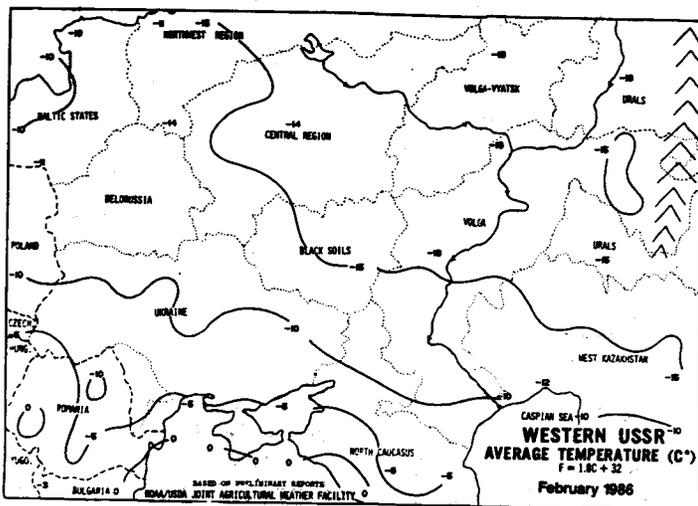
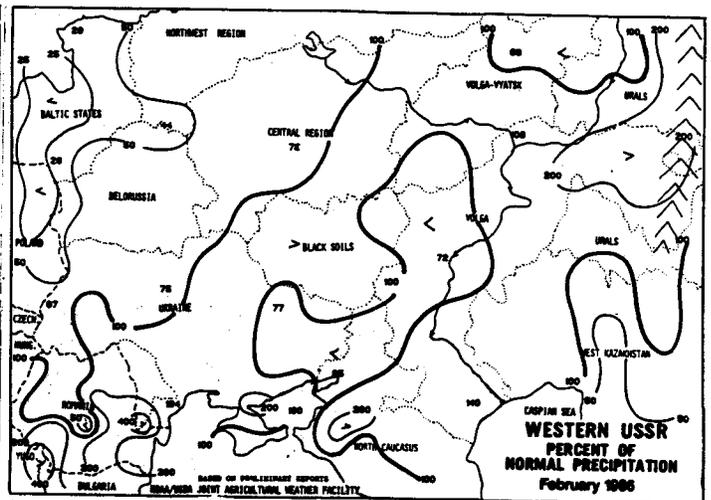
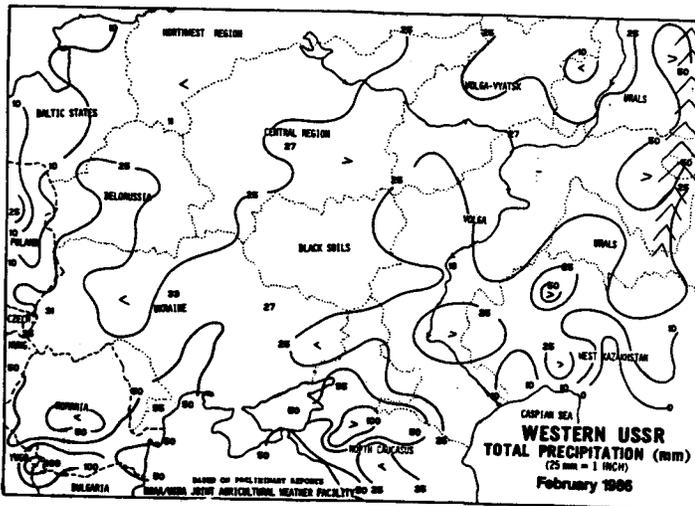
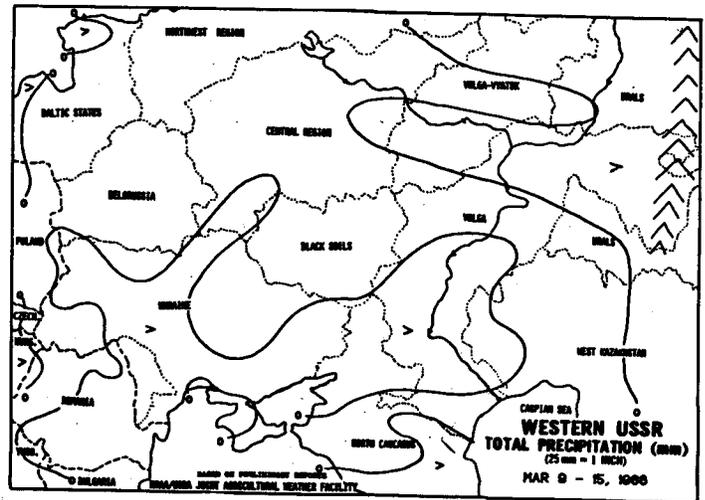
## International Weather and Crop Summary

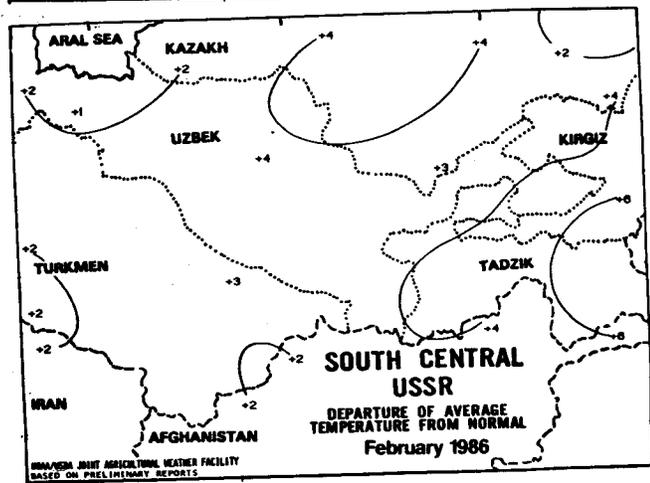
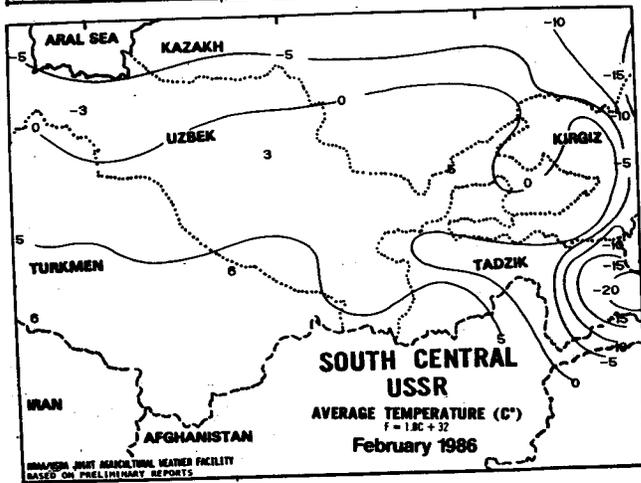
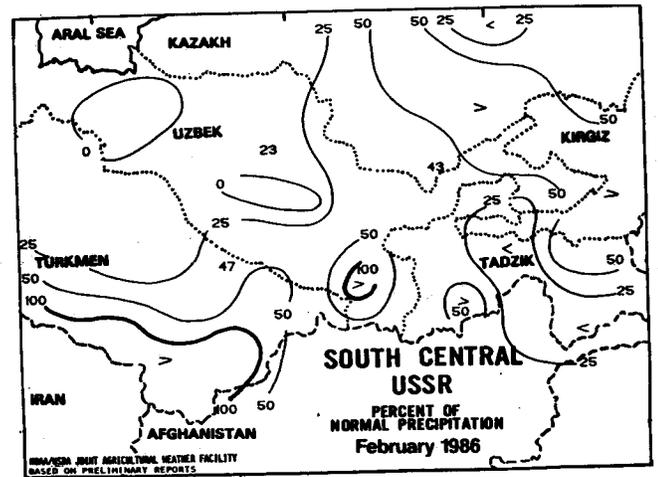
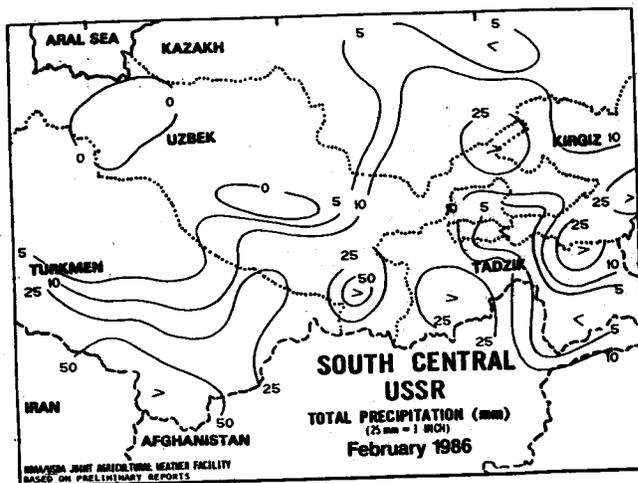
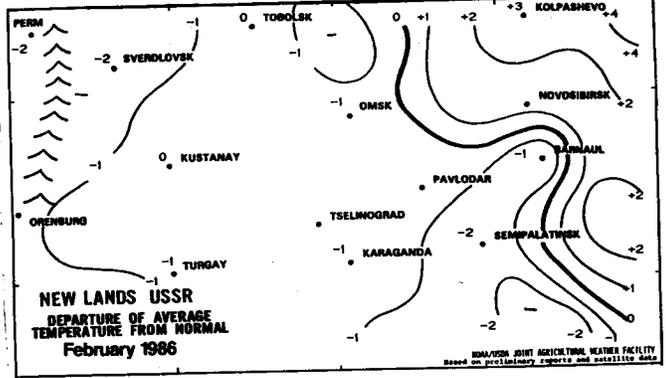
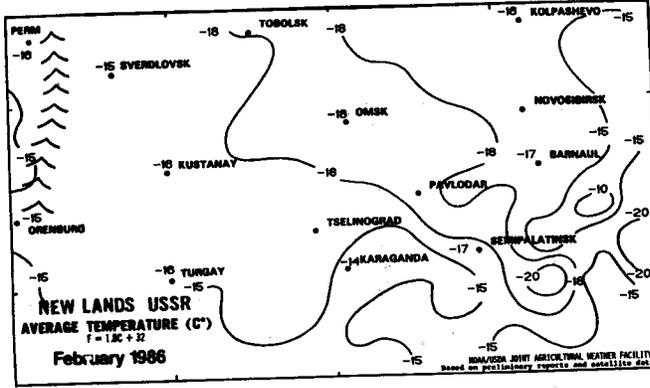
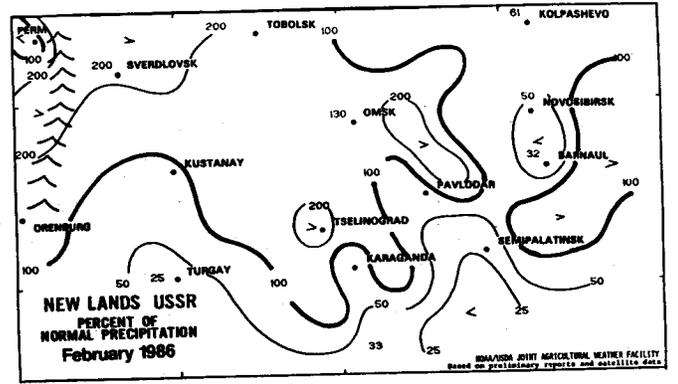
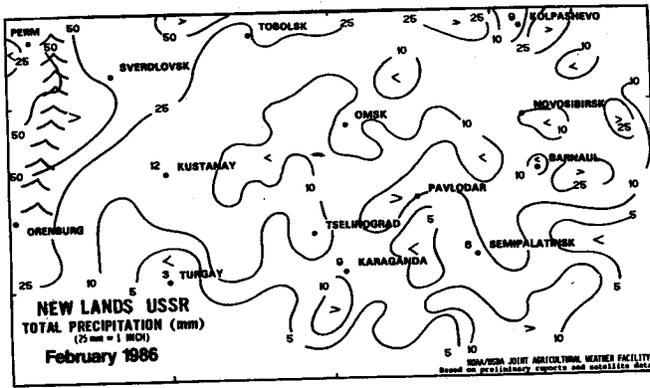
March 9 - 15, 1986

**HIGHLIGHTS:**

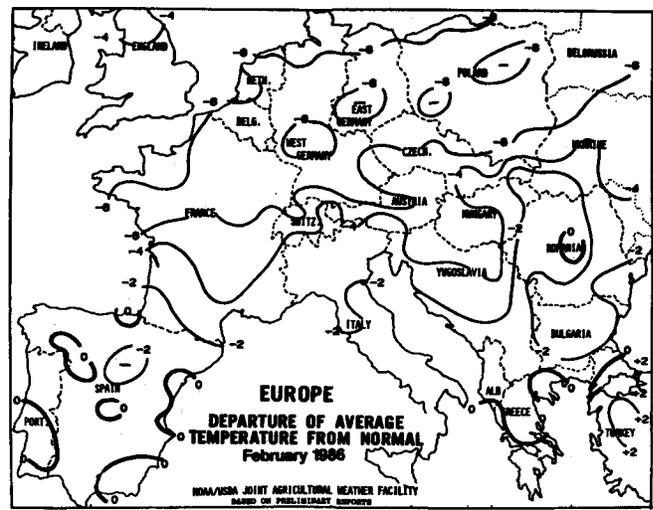
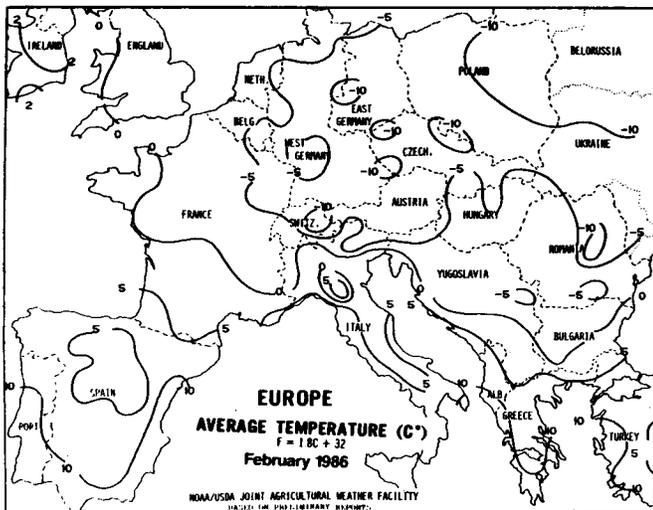
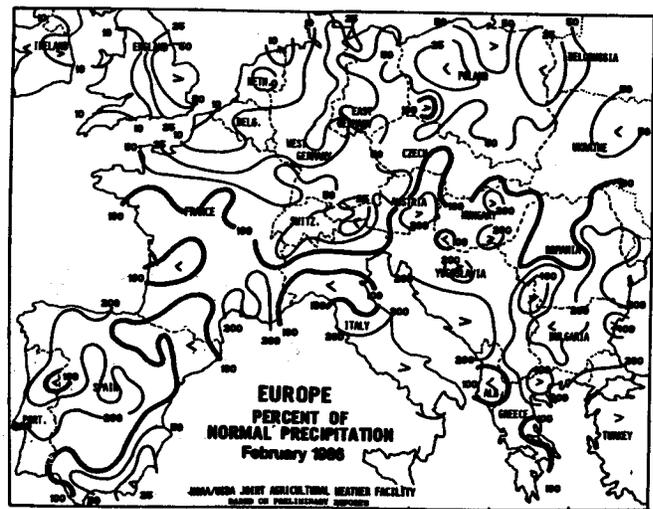
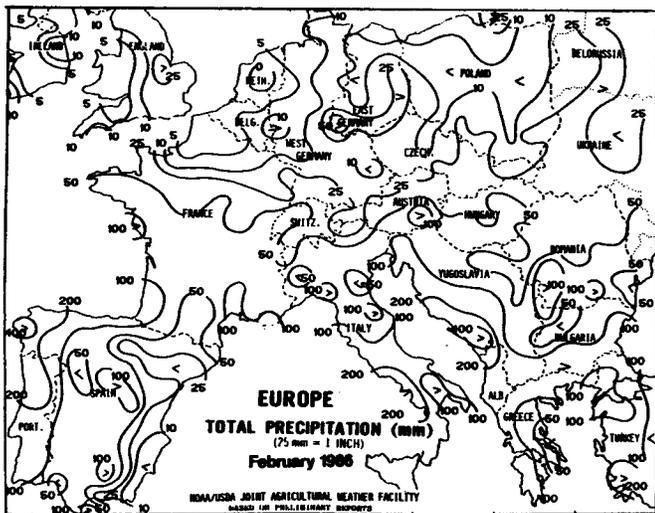
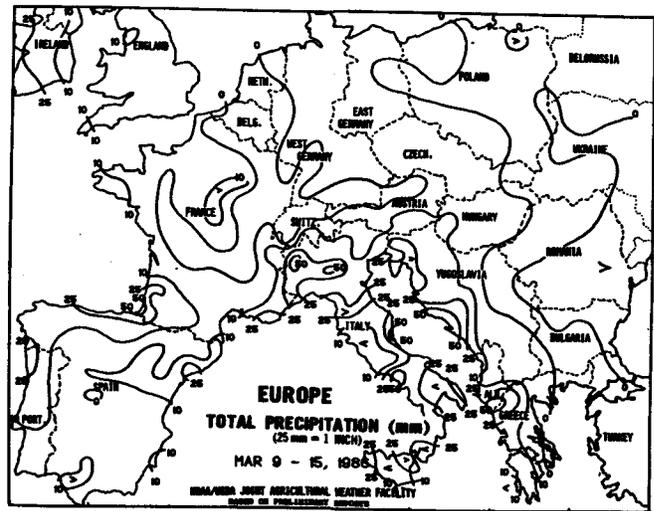
1. **UNITED STATES** ... Precipitation slows field activity and seeding across nearly all the eastern half of the Nation, especially in the Southeast. Warm temperatures and moisture improve small grain growth in the Southeast. However, most Great Plains States need moisture.
2. **WESTERN U.S.S.R.** ... Cool, dry weather favors early season fieldwork in the south.
3. **EUROPE** ... Dry weather in the north covers dormant winter grains. Drier weather covers Mediterranean grain areas, but moisture conditions are likely adequate to meet crop needs.
4. **SOUTH ASIA** ... Moderate rain covers northern wheat areas. Isolated heavy rain is unfavorable for maturing wheat.
5. **EASTERN ASIA** ... Above-normal temperatures allow northern winter wheat to break dormancy. Moderate rain benefits much of the rice region except the south coast.
6. **MEXICO** ... Light showers help filling wheat in the northwest. Warm, dry weather prevails elsewhere as summer crop planting increases.
7. **SOUTH AMERICA** ... Wet weather slows early crop harvests in Argentina and southern Brazil. Mostly dry weather benefits Brazil's northern soybean harvest.
8. **SOUTH AFRICA** ... Moderate rain stabilizes declining yields but arrives too late to significantly improve the situation.
9. **NORTHWESTERN AFRICA** ... Showers benefit winter grains over much of the region.

**WESTERN U.S.S.R** ... High pressure remained stationary over the region, keeping most winter grain areas dry. Weekly temperatures were slightly above normal, slowly melting snow. The cool, dry conditions in southern crop areas of the Ukraine and North Caucasus favored early season fieldwork. Precipitation during February was below normal over much of Western U.S.S.R., except for the central Ukraine, Black Soils Zone, and the central North Caucasus where precipitation was above normal. February temperatures over Soviet winter grain areas were 2 to 6 degrees C below normal. In most cases, a protective snow cover preceded the coldest weather, protecting most winter grains from widespread wintertill.

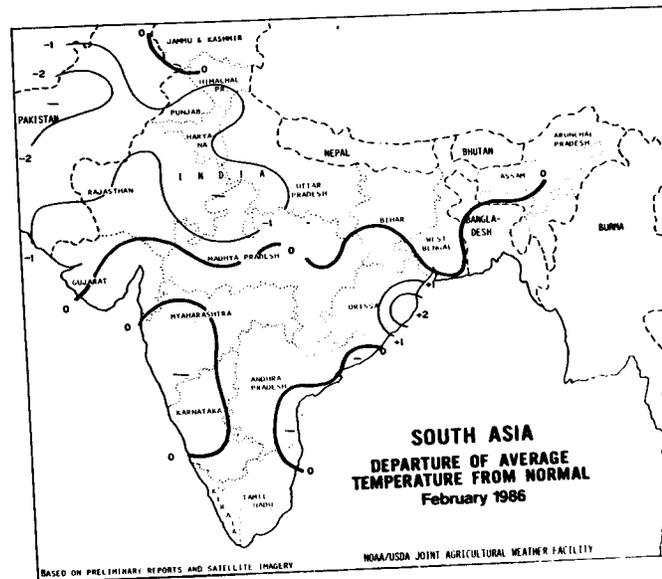
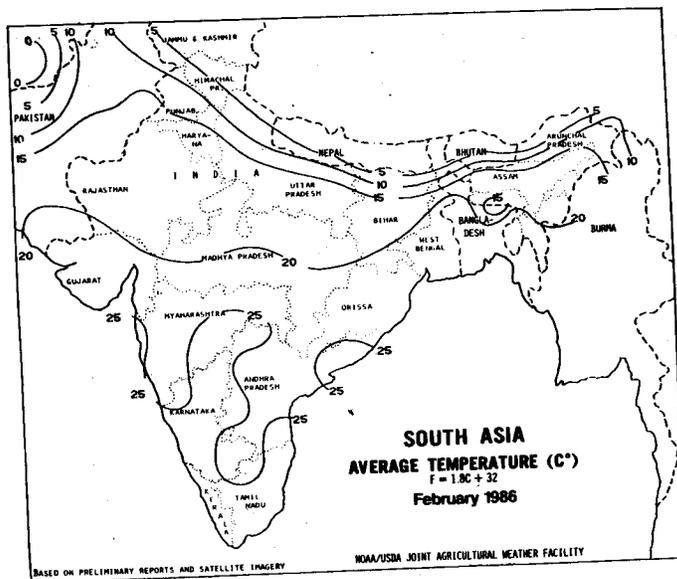
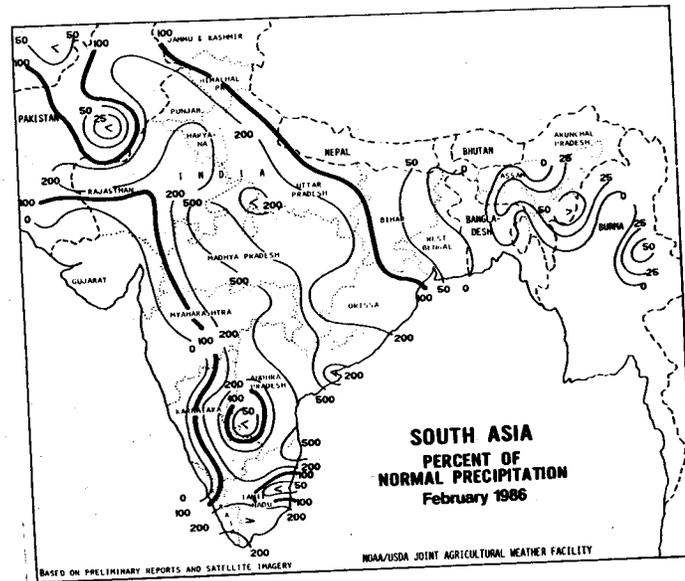
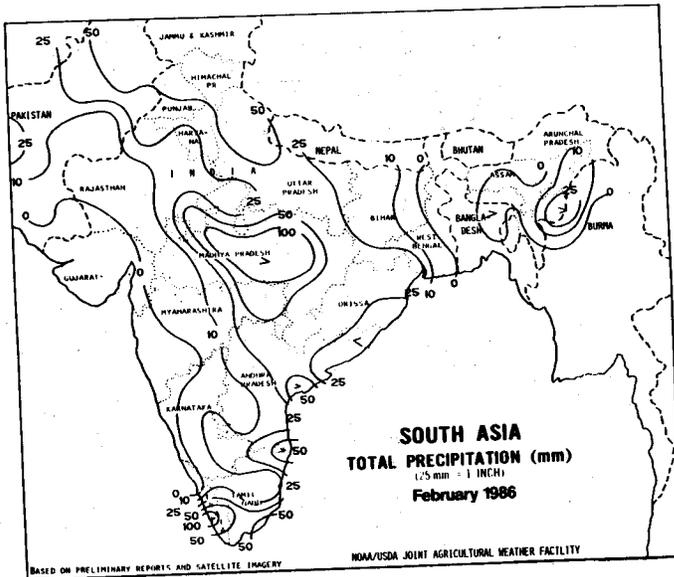
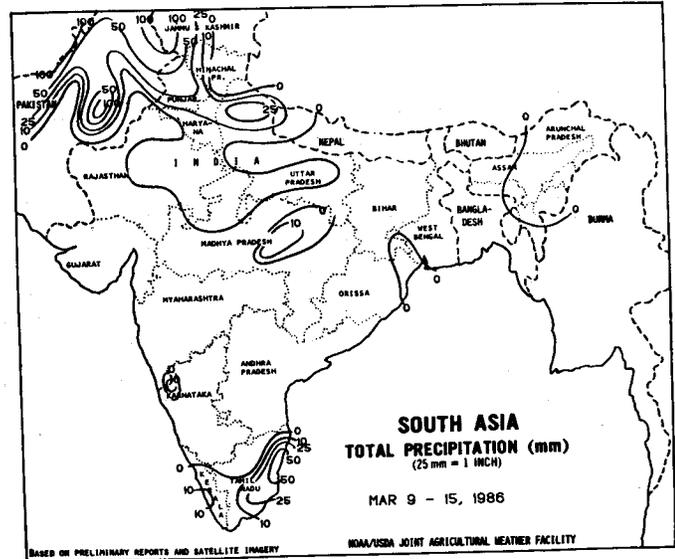




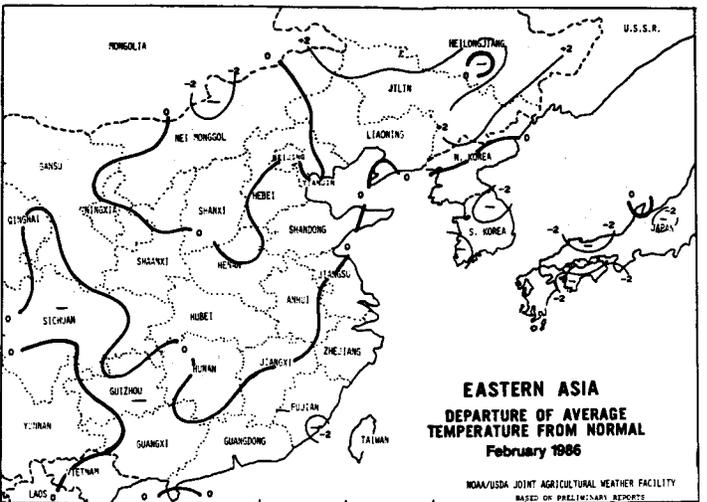
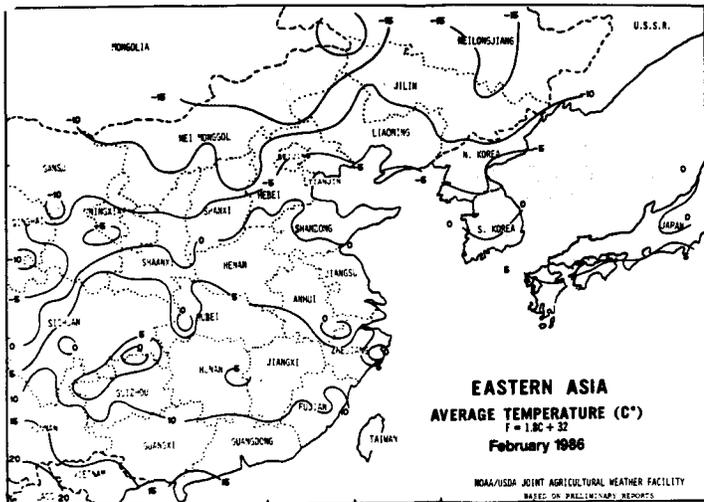
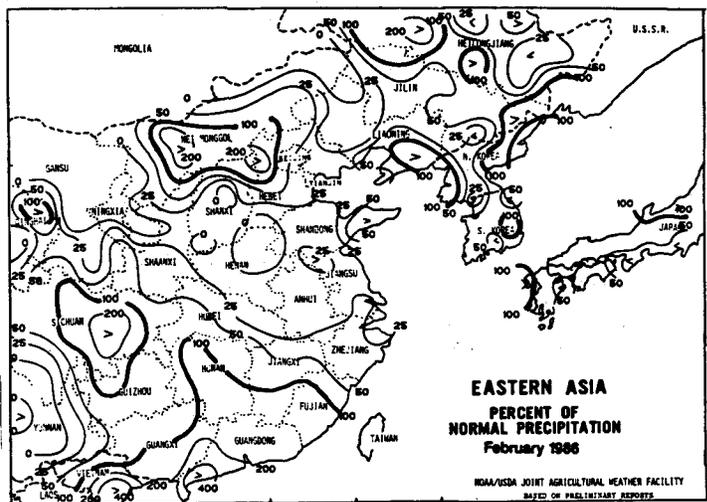
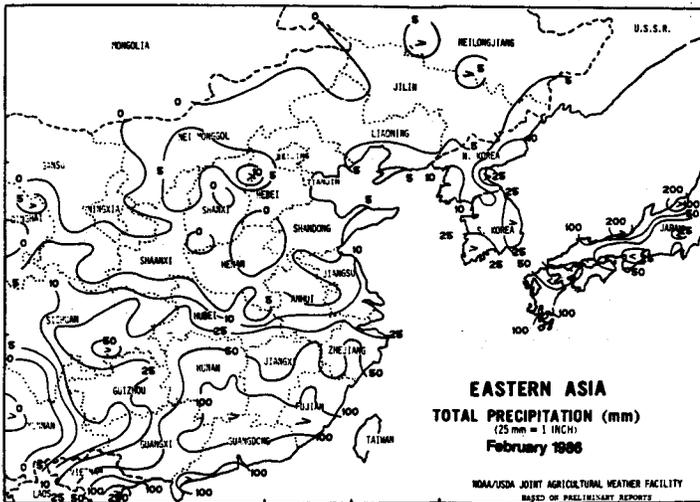
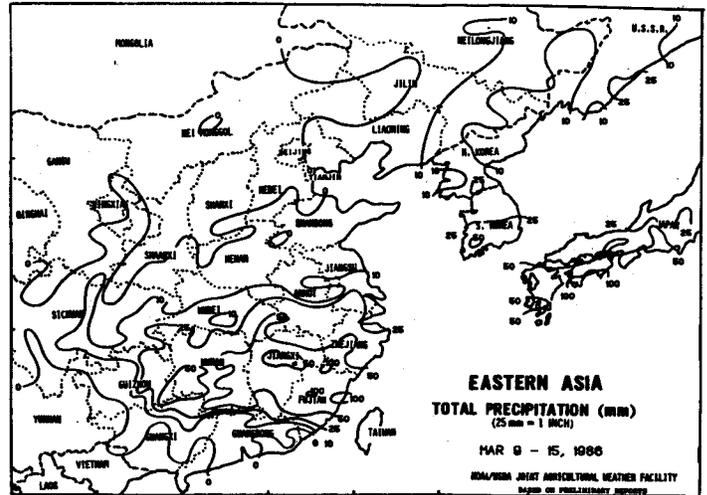
**EUROPE** ... Generally dry weather covered much of northern Europe, continuing February's below-normal precipitation pattern. Drier weather extended eastward from Spain through southern Italy into southeastern Europe, reversing February's above-normal precipitation pattern. February's precipitation was especially beneficial in southeastern Europe, as it increased moisture supplies for the upcoming crop season. February temperatures were below normal over much of Europe, with coldest weather covering the north. Snow cover in the north was likely sufficient to protect winter grains from widespread winterkill. This past week, temperatures were near normal over much of the region.



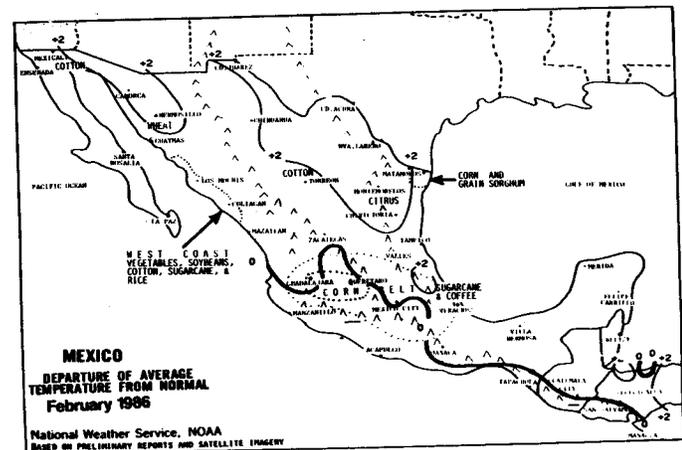
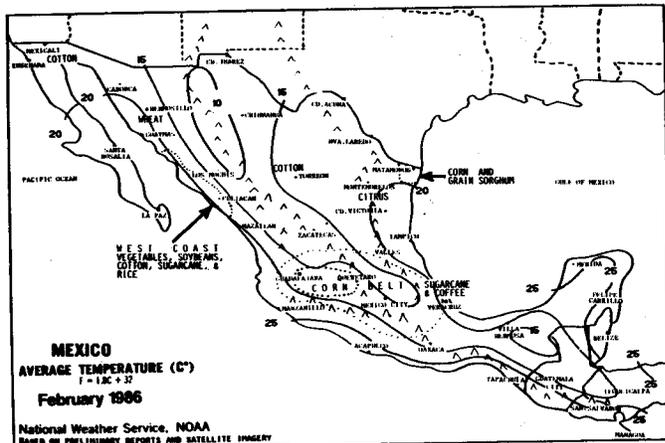
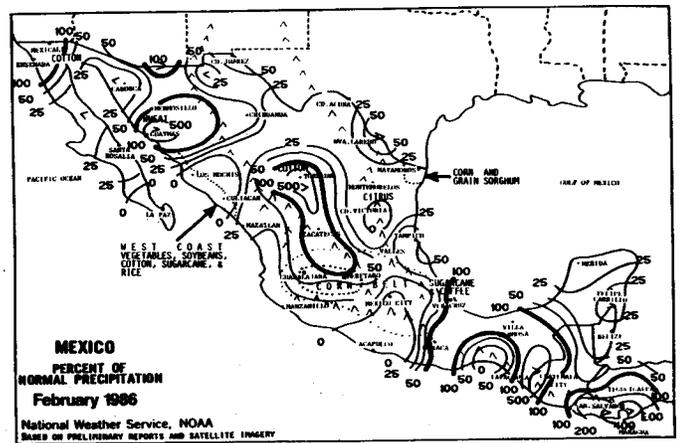
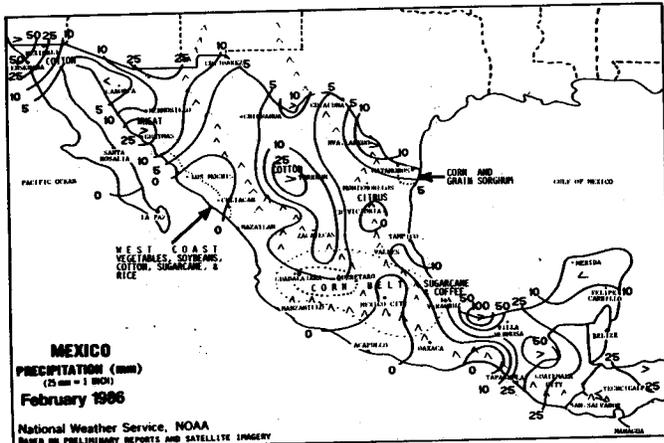
**SOUTH ASIA** ... Moderate to heavy rain fell in northern Pakistan and India. Moderate rain (10 to 50mm) was beneficial for wheat in the grain filling stage. Localized heavy rain (50 to 100mm) in Pakistan was unfavorable for a portion of wheat which is beginning to mature. Light showers (1 to 5mm) fell in India's central wheat areas where wheat is maturing. February rainfall was above normal over most of Pakistan's and India's wheat areas. The moisture was very beneficial for wheat in the heading and filling stages. February temperatures averaged below normal helping to lower evaporation and conserve irrigation water.



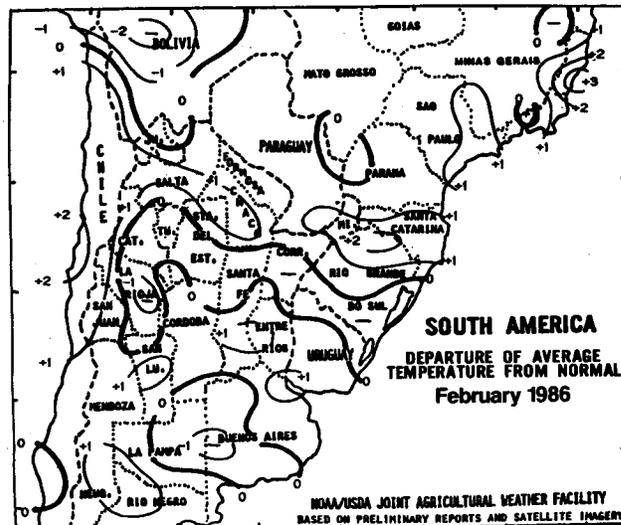
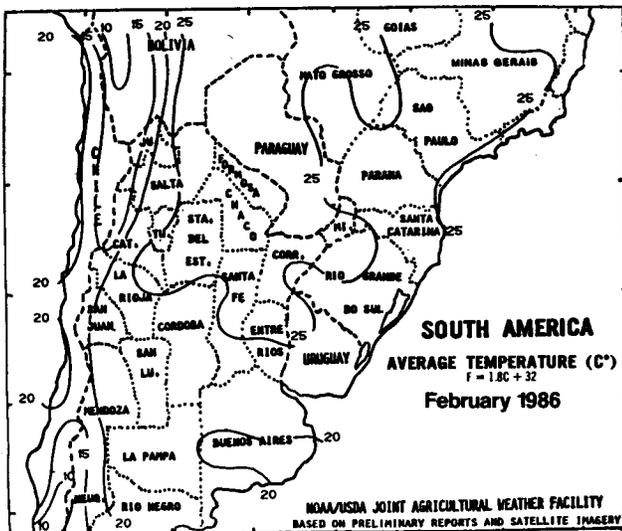
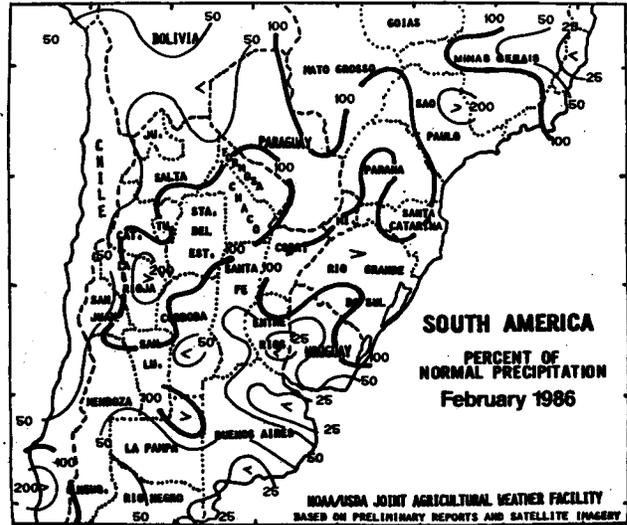
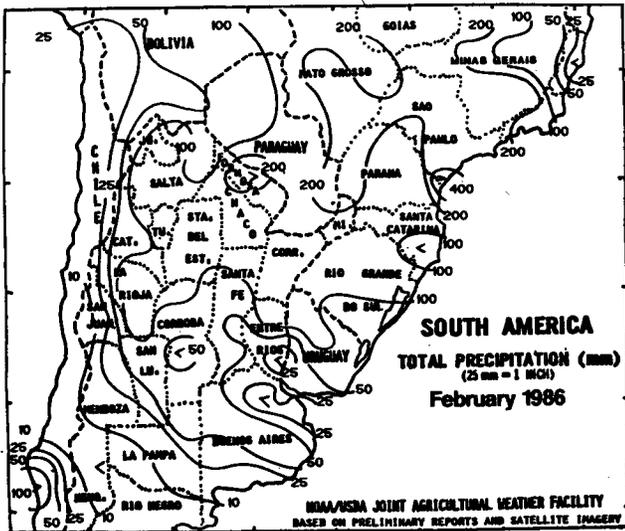
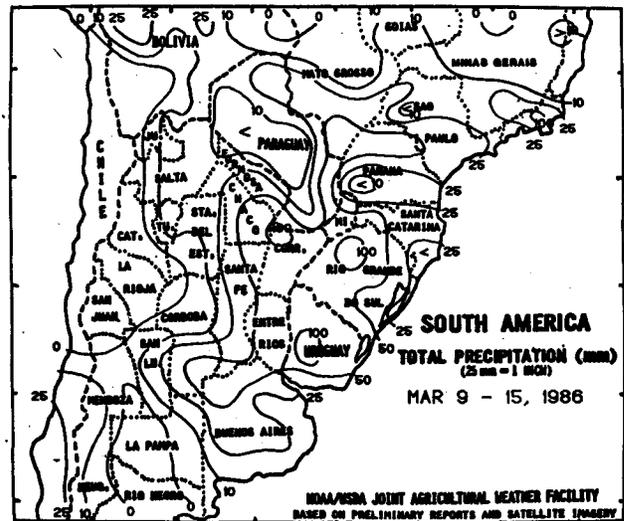
**EASTERN ASIA** ... Favorably warm weather continued in most of eastern China. Temperatures averaged about 1 to 3 degrees C above normal in the North China Plain. Most winter wheat has broken dormancy, and wheat in Hebei is greening up a little earlier than normal. Light rain (1 to 10mm) moistened topsoils in Henan and Shandong, but irrigation will be needed to supply moisture for wheat in Hebei. Moderate rain in South Korea benefited winter grains which have broken dormancy. Moderate to heavy rain (25 to 100mm) favored much of the rice region. However, mostly dry weather in Guangdong and Guangxi continued to hamper early rice planting. February's rainfall was below normal in the North China Plain and topsoil moisture is limited for winter wheat. Near-normal February rainfall in southern China followed a very dry winter. However, the recent dryness is slowing rice planting along the south coast.



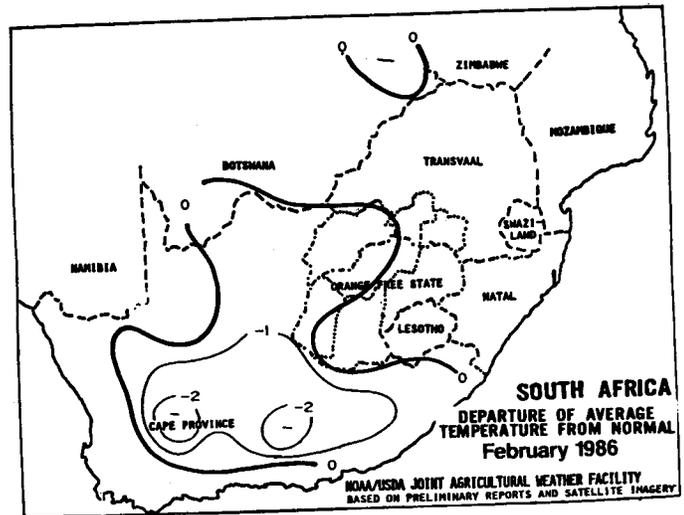
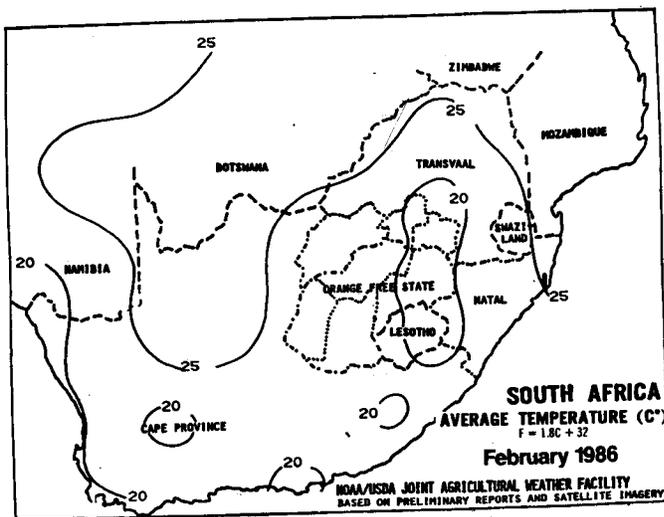
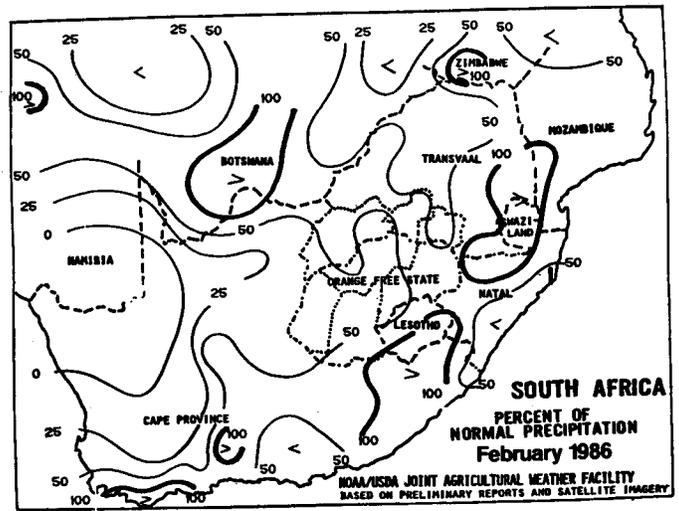
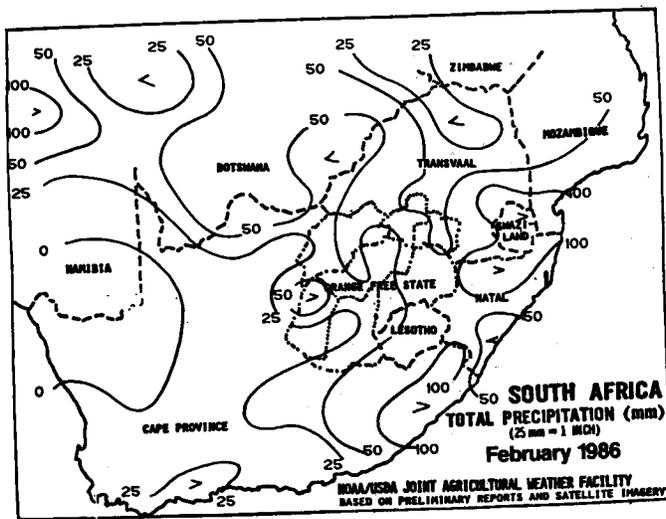
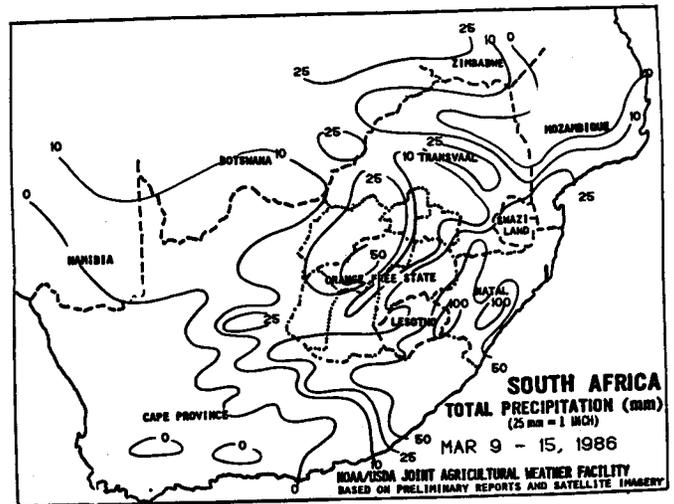
**MEXICO** ... Some light rain fell in the northwest, but dry weather covered the remainder of the country. The showers benefited wheat in the filling stage. Weekly temperatures averaged 3 to 5 degrees C above normal in the east from Matamoros in the north to the Yucatan peninsula in the south. The warm, dry weather favored sugarcane harvesting and field preparations for summer crop planting. Mild February weather promoted cotton planting in the north, aided by scattered showers across the region. Seasonally dry weather continued over the Southern Plateau corn belt. Corn planting is expected to increase during the next few weeks.



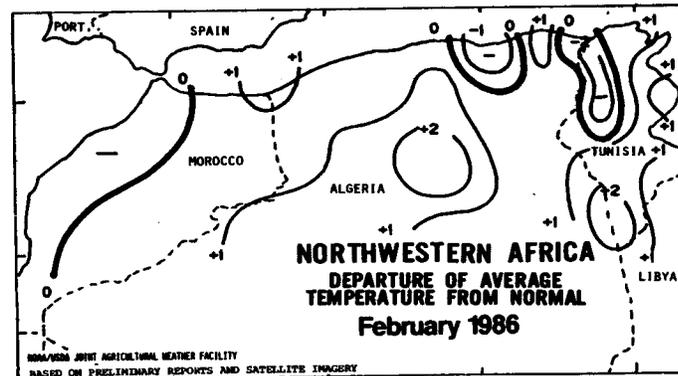
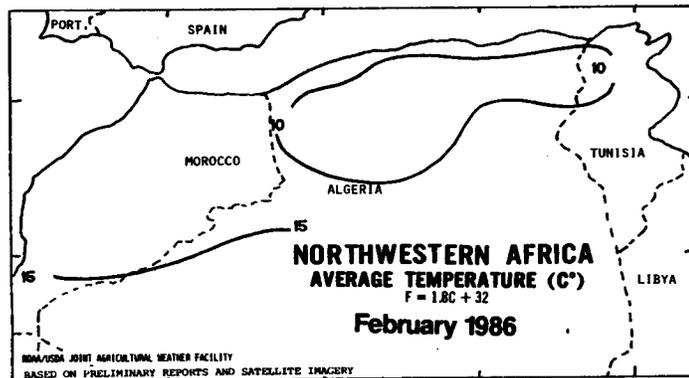
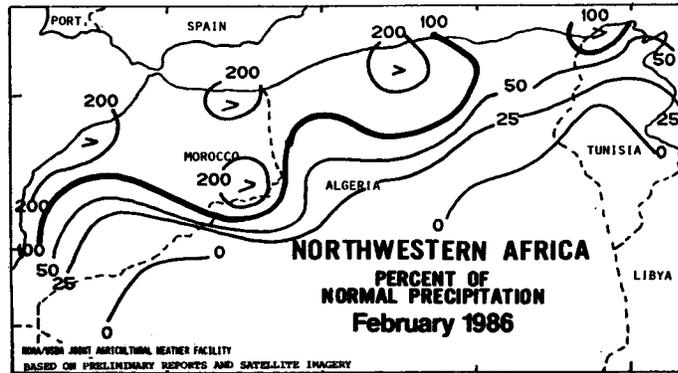
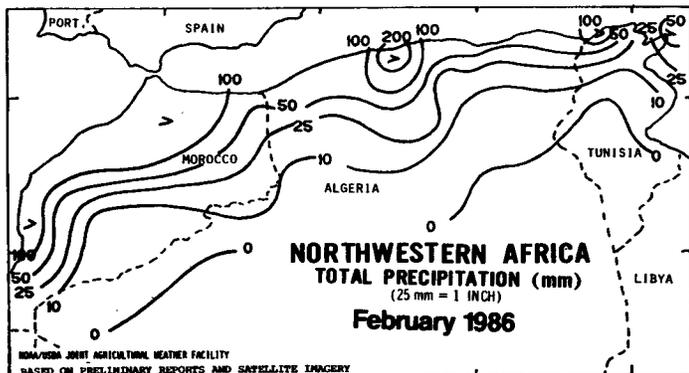
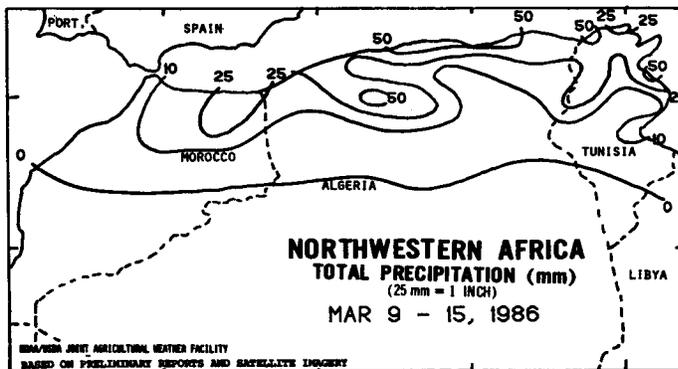
**SOUTH AMERICA** ... More storms pushed through the crop areas of Argentina and Brazil's center-south. Weekly rainfall averaged 50 to 100mm from northern Buenos Aires to Rio Grande do Sul while most other crop areas received 25 to 50mm. The wet weather slowed early grain harvesting in Argentina, following February's below-average rain and seasonal temperatures which promoted maturity. Sunflower and corn harvesting were already underway. Sorghum and soybean harvesting are just beginning. In Brazil, locally heavy showers fell in the south, soaking late planted soybeans which are still setting and filling pods. Wetness delayed harvesting of earlier planted soybeans and corn. February's near to above average rains in most soybean areas stabilized crop conditions in the south and maintained adequate moisture in the north. Light rain (less than 10mm) fell this week in northern soybean areas where crop harvesting is widespread.

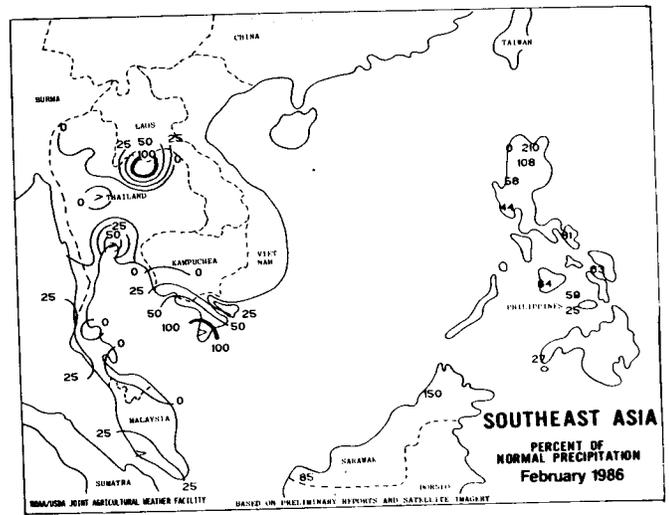
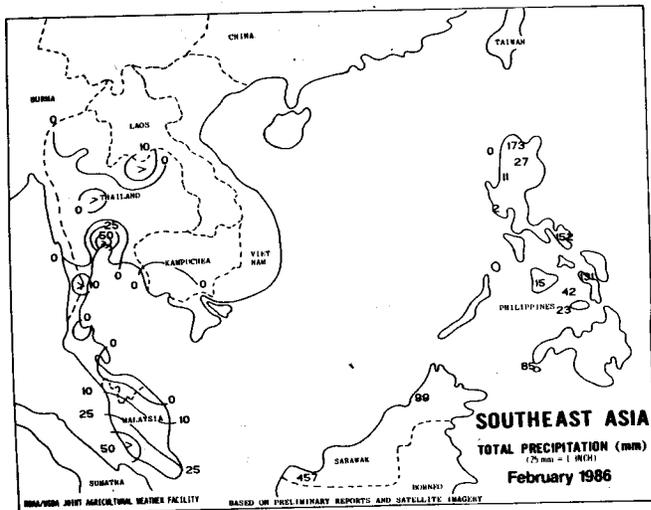
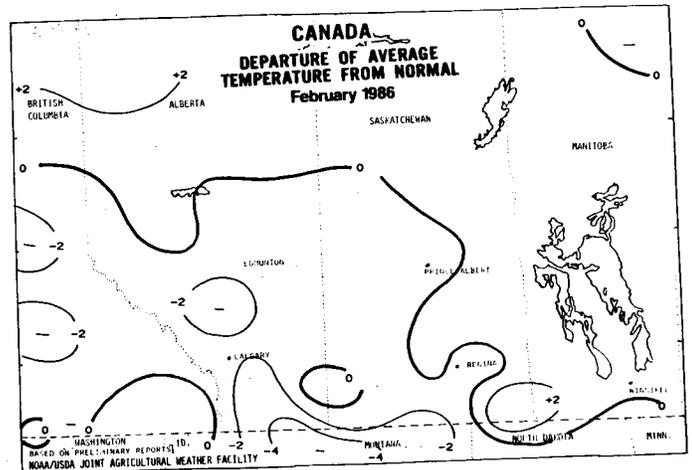
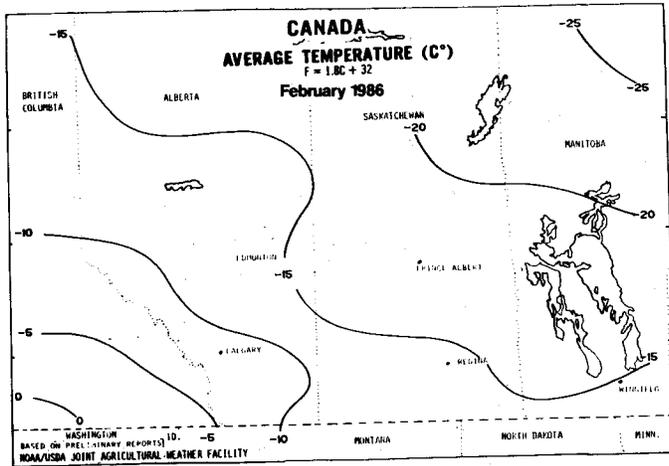
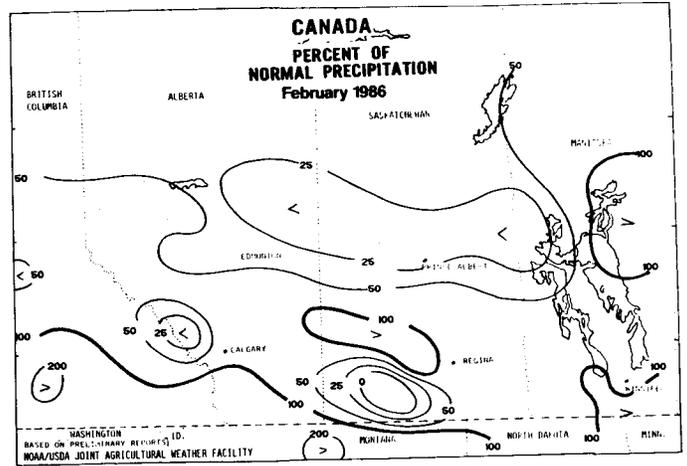
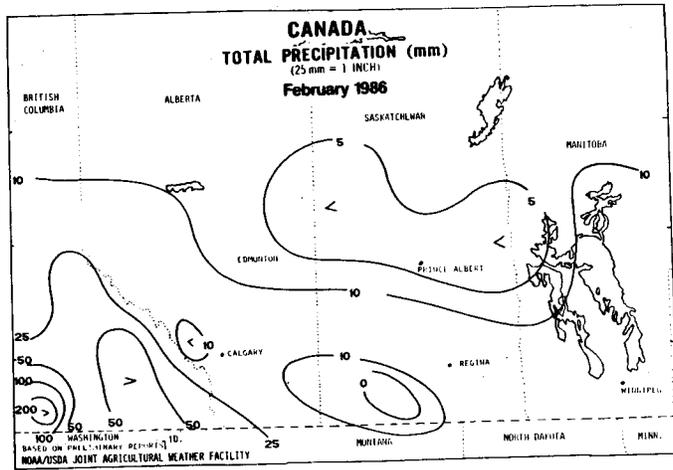


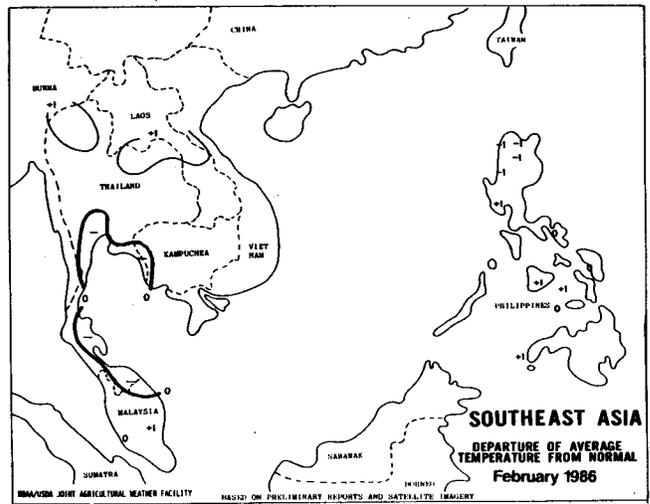
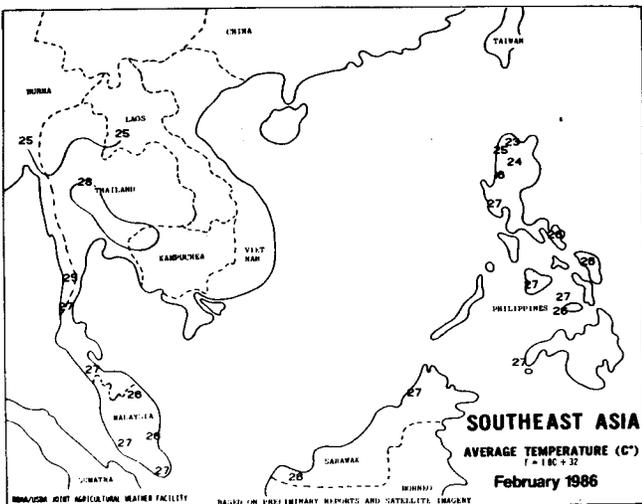
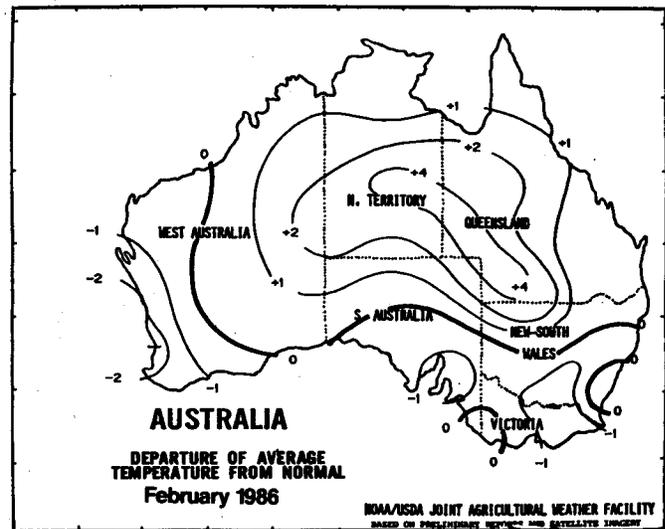
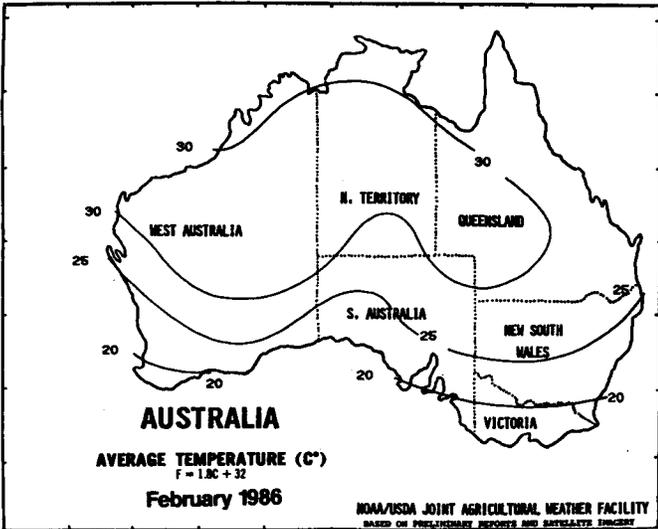
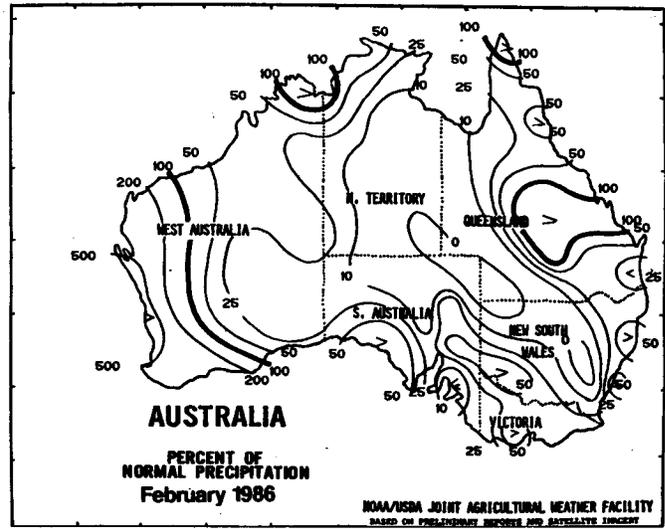
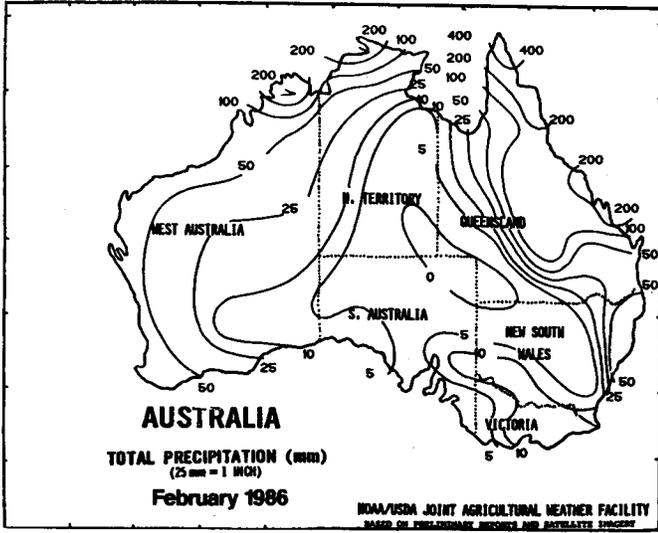
**SOUTH AFRICA** ... Light to moderate rain (10 to 50mm) fell in nearly all corn areas. The major corn producing region of the Western Transvaal and the Northwest Orange Free State received 25 to 50mm of rain. The moisture was favorable for late-planted corn in the filling stage. The recent rain arrived too late to improve the yield outlook for early-planted corn which is maturing. February rainfall was below normal in nearly all of the Maize Triangle. Limited moisture for corn in the grain filling stage caused the yield potential to decline. The recent rain has stabilized the yield potential, but since much of the corn is either in the late filling stage or maturing, no significant improvement in yield is likely.



**NORTHWESTERN AFRICA** ... Light showers in Morocco continued to provide abundant moisture conditions for winter grains in the late vegetative stage. Drier weather in northern Morocco probably came as a relief, following the much above-normal rains which covered the area during February. Moderate rain (25 to 50mm) over Algerian wheat areas continued February's above normal precipitation pattern in western and central areas and reversed February's below-normal precipitation in the east. In Tunisian wheat areas, soaking rain (around 25mm), reversed February's below-normal precipitation pattern. Yield prospects remain highly favorable for winter grains in Morocco and much of Algeria. This past week's abundant rain in Tunisia improved prospects for winter grains, following drought conditions which have covered crop areas during much of the growing season.







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(Continued from front cover)

SATURDAY...Showers were comparatively light in the East Coast States as a frontal system moved into the Atlantic. Heavy showers fell in much of Florida. Another Pacific storm brought high wind and heavy rain to much of California. Heavy snow, as low as 2,000-feet covered the Sierra Nevada Mountains. Lighter showers of rain or snow fell in the Northwest and the central Plateau. Late in the day thunderstorms covered the central Plains and snow fell from Nebraska northward.

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