

# WEEKLY WEATHER AND CROP BULLETIN

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

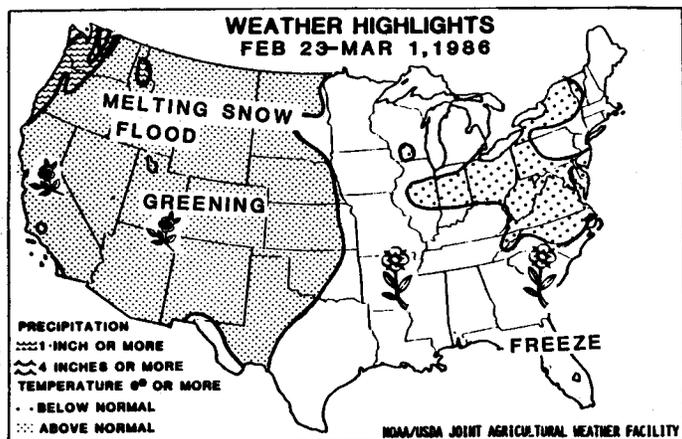
U.S. DEPARTMENT OF AGRICULTURE  
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February 23 to March 1, 1986



**HIGHLIGHTS:** Snow covered the area from the upper Mississippi Valley through the middle and upper Ohio Valley, to the Appalachians, and from the mid-Atlantic States through New England. Light rain showers fell from the middle Mississippi Valley through the Tennessee Valley to the Southeast. Heavy rain fell along the Northwest coast, and snow covered the high elevations of the Cascades and Rockies. Moderate rain fell in Idaho and, coupled with melting snow, caused extensive flooding. Temperatures were colder than normal east of the Mississippi River, as much as 10 to 12 degrees, colder in the upper Ohio Valley, and warmer than normal in the West. Parts of the northern Rockies and central Plateau were 14 to 16 degrees warmer than normal. Freezing temperatures reached into the lower Mississippi Valley and through the Carolinas to western Georgia at week's end.

**SUNDAY...**A Pacific storm brought heavy rain to the Northwest coastal region. Lesser amounts of rain with snow at higher elevations fell inland across the northern Rockies and into the Plains. Snow fell across the lower Great Lakes States and spread through Pennsylvania through New England. Rain reached to Tennessee, and showers and thunder storms covered Florida. Freezing temperatures reached into the lower Mississippi Valley.

**MONDAY...**Snow spread from the upper Ohio Valley into the Appalachians and from the mid-Atlantic States to southern New England. Light rain reached from the eastern Tennessee Valley into the Carolinas. Heavy rain fell along the Washington coast with snow in the higher elevations of the Cascades.

**TUESDAY...**Snow tapered off in the northeastern States, but a new storm was spreading snow and freezing rain from the western Great Lakes to the Tennessee Valley. The southern portion of this was all rain. Rain was lighter in the Northwest, but flooding continued in Idaho. Record warm temperatures were recorded in much of the West.

**WEDNESDAY...**Snow spread from the central Great Lakes through the upper Ohio Valley into West Virginia, Maryland, Delaware, parts of New Jersey and Virginia, and into Pennsylvania. Rain showers reached from the middle Mississippi Valley through the Tennessee Valley to Georgia and the Carolinas and southern Virginia. Freezing weather reached to northern Georgia in the East, but record-warm weather continued in the West.

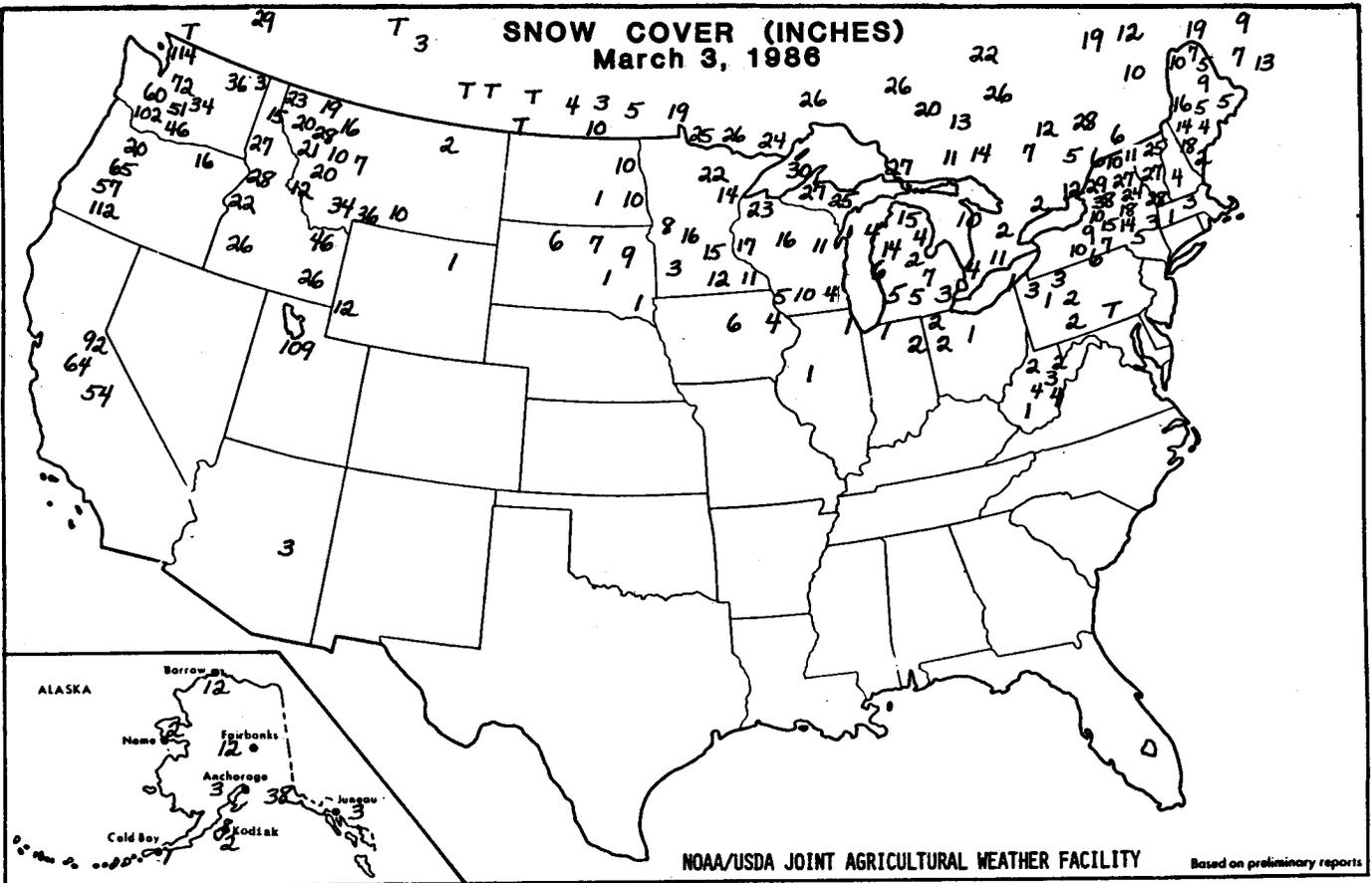
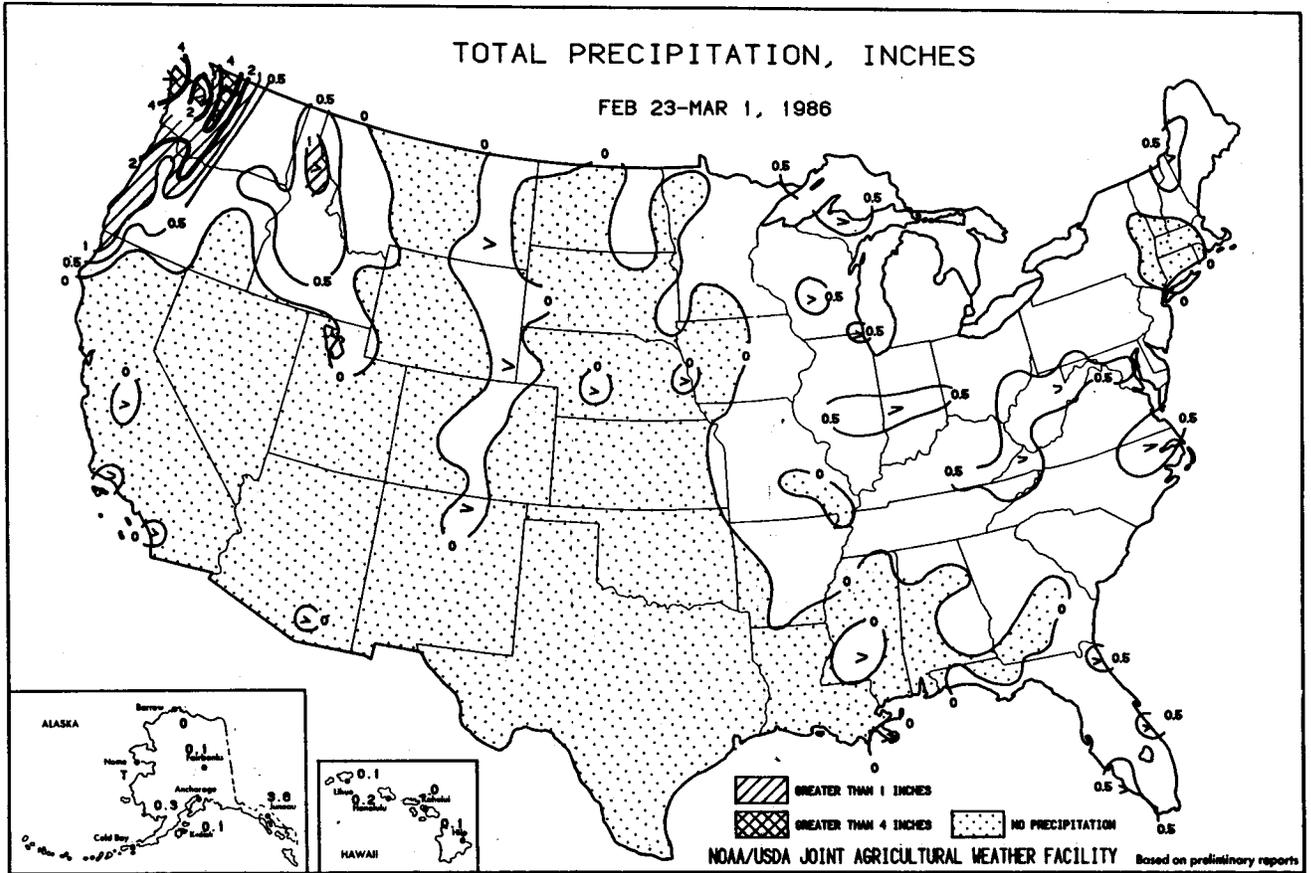
**THURSDAY...**Snow ended in the mid-Atlantic States and Ohio Valley but continued intermittently in western New York and parts of Pennsylvania. Rain showers continued from the middle Mississippi Valley into the Southeast. Cooler weather pushed into the northern and central Rockies and central Plateau, but temperatures in most of the West were still warmer than normal.

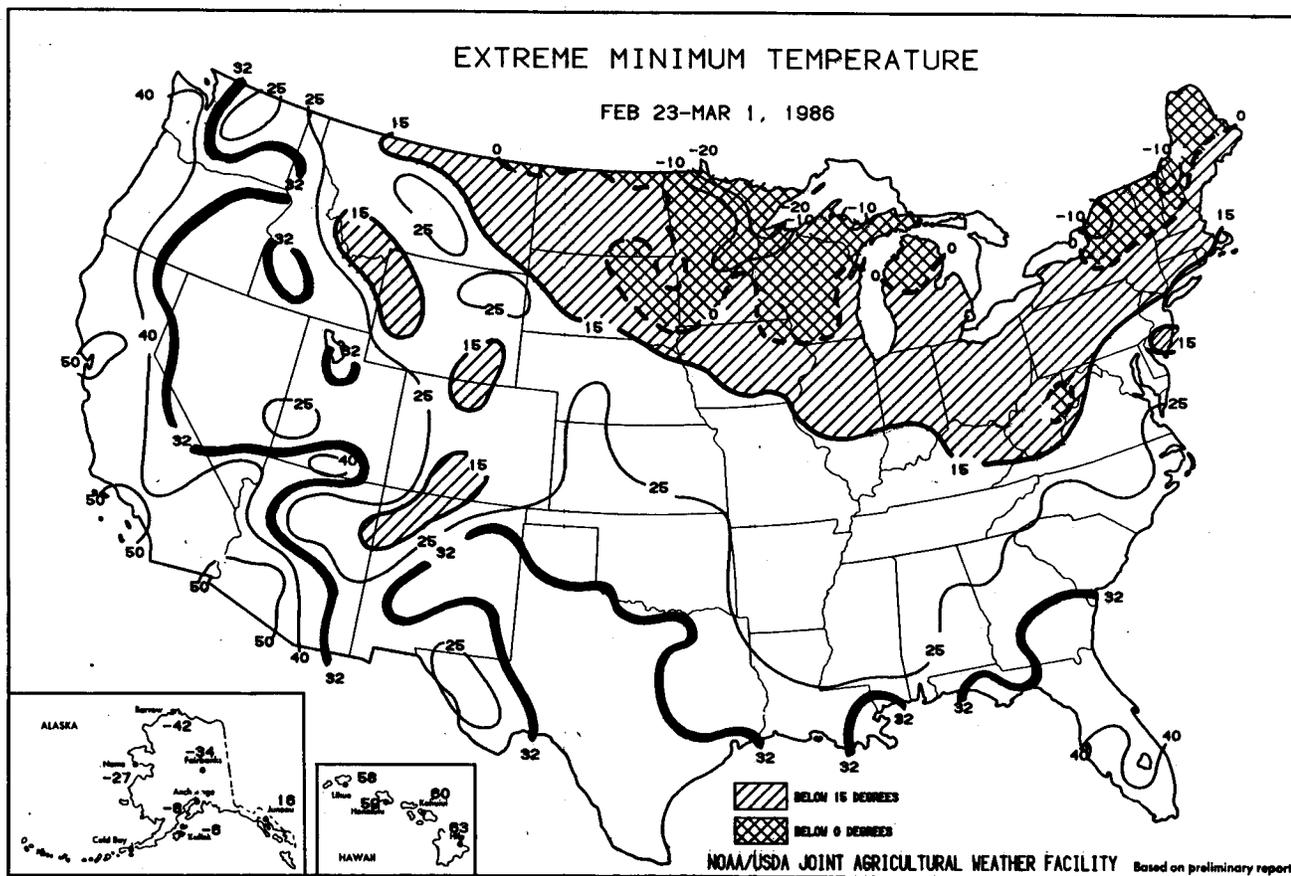
**FRIDAY...**Light snow continued in western New York and Pennsylvania, and occasional snow fell to the southern Appalachians. Light rain showers covered the Southeast and the lower Mississippi Valley. A few showers fell along the west coast. Cooler weather spread over the Rockies, Plains, and Plateau but average temperatures were still warmer than normal.

**SATURDAY...**A few snow flurries in the Appalachians were the only precipitation in the Nation. Freezing temperatures reached through the eastern Plains, the lower Mississippi Valley, and into the western Carolinas and Georgia. Day temperatures were still well above freezing in most of the West.

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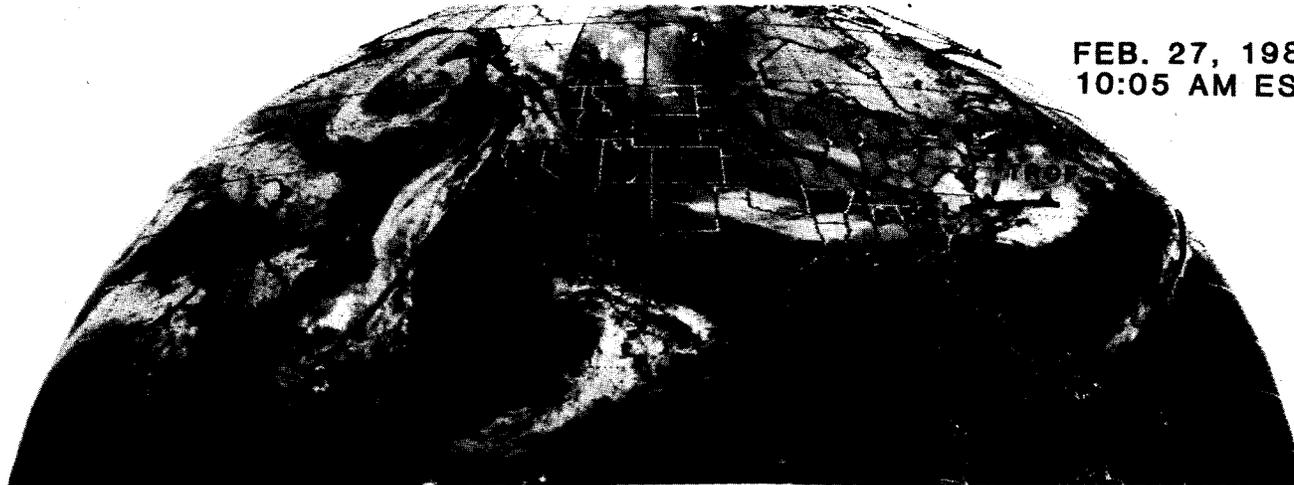
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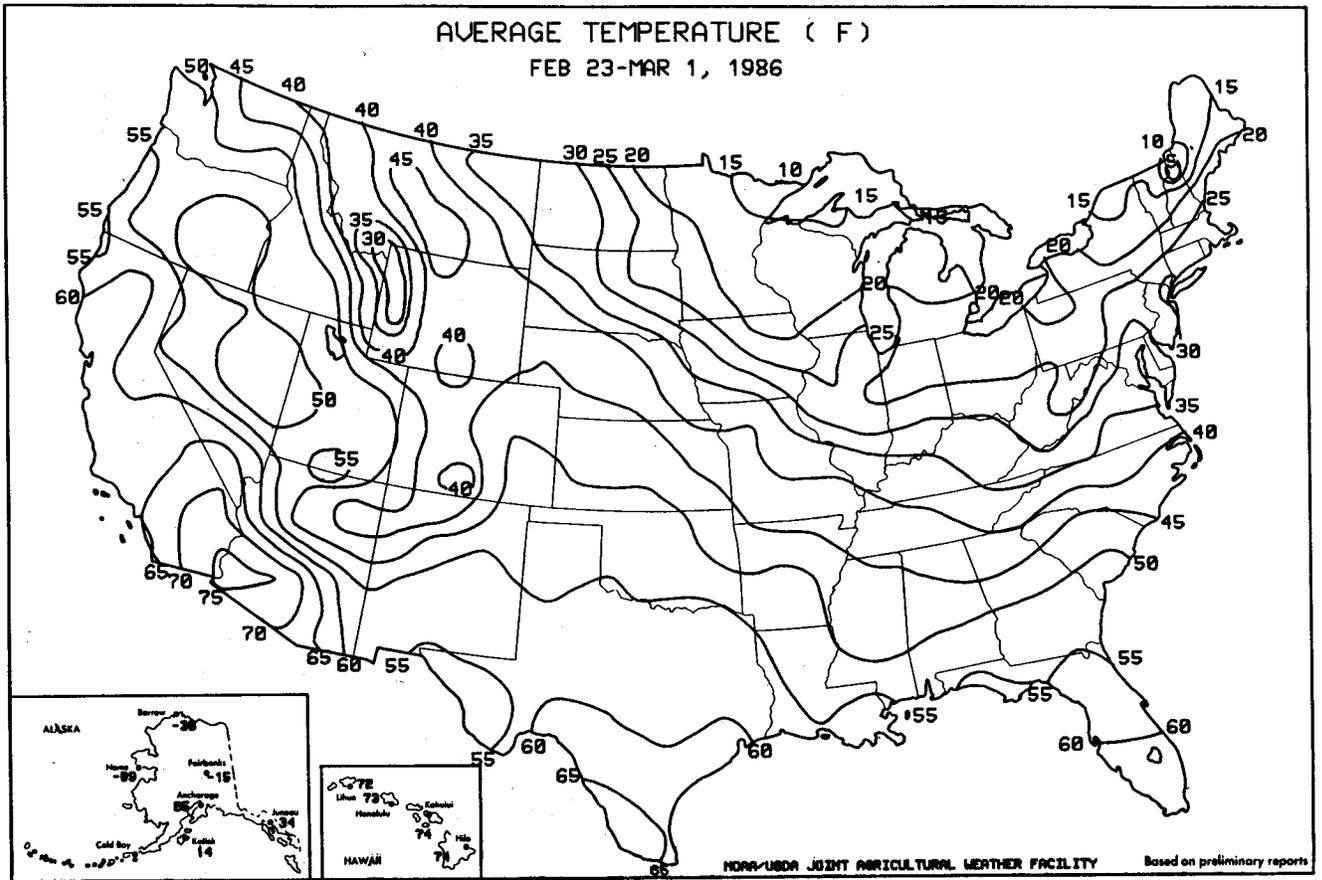
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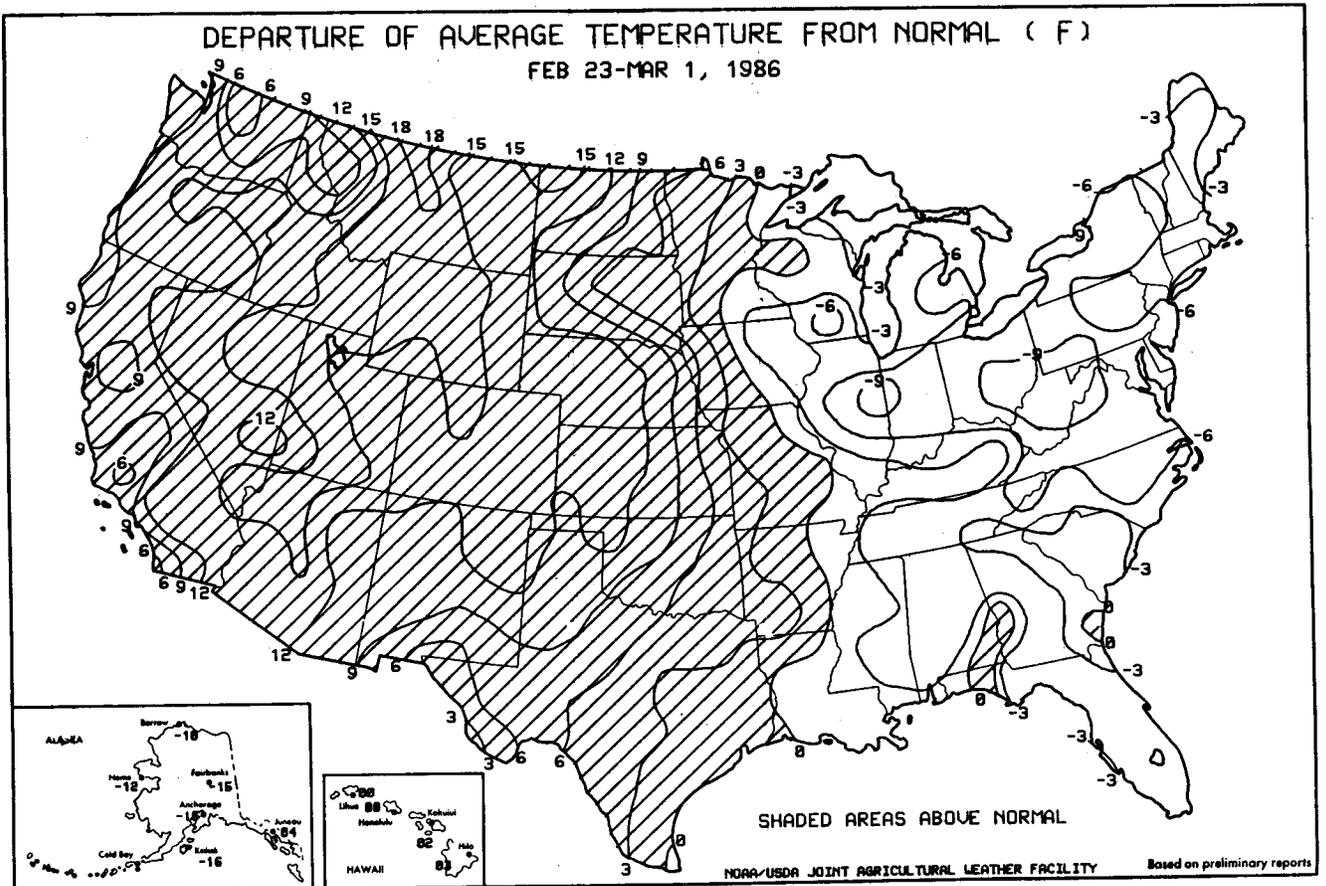


A COLD FRONT ON THE WEST COAST IS CAUSING HEAVY RAIN IN WESTERN WASHINGTON, OREGON, AND BRITISH COLUMBIA. HEAVY SNOW IS FALLING AT THE HIGHEST ELEVATIONS IN THE CASCADES AND IN CANADA. WARM AIR AHEAD OF THE STORM IS RAPIDLY MELTING SNOW IN THE CENTRAL AND NORTHERN PLATEAU REGION AND THE ROCKIES. PARTS OF THESE AREAS ARE FLOODED.

IN THE EAST, A COMPLEX FRONTAL SYSTEM AND A LOW PRESSURE SYSTEM IN THE CAROLINAS ARE CAUSING SNOW IN MUCH OF VIRGINIA AND MARYLAND, RAIN IN THE CAROLINAS, AND THUNDERSTORMS ALONG THE SOUTH CAROLINA COAST. MUCH COOLER AIR IS POISED TO PLUNGE INTO THE SOUTHEAST.



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



Weather Data for the Week Ending March 1, 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	
AL BIRMINGHAM	58	31	77	21	45	-4	T	-1.3	T	0	0	2.8	27	83	30	0	5	1	0	0
MOBILE	65	39	74	26	52	-4	T	-1.4	T	0	0	6.8	70	86	33	0	2	2	1	0
MONTGOMERY	63	35	77	27	49	-3	T	-1.2	T	0	0	7.2	81	80	30	0	0	0	0	0
AK ANCHORAGE	13	-2	19	-8	5	-14	.3	.1	.3	0	0	.8	44	82	53	0	0	7	3	0
BARROW	-25	-36	-17	-42	-30	-10	T	0	T	0	0	.3	75	71	58	0	0	7	0	0
FAIRBANKS	-7	-23	2	-34	-15	-16	.1	.1	.1	0	0	.3	30	74	51	0	0	7	4	0
JUNEAU	39	29	46	16	34	4	3.6	2.7	1.0	.7	515	11.0	145	97	73	0	4	4	4	4
KODIAK	21	6	34	-6	14	-16	.1	-1.2	.1	T	0	16.6	112	76	46	0	7	2	2	0
NOME	-2	-17	8	-27	-9	-13	T	-1	T	0	0	1.0	77	74	51	0	7	7	0	0
AZ PHOENIX	89	58	92	50	73	16	0	-2	0	0	0	1.3	100	54	15	4	0	0	0	0
PRESCOTT	74	36	78	31	55	15	0	-4	0	0	0	1.1	33	68	19	0	1	0	0	0
TUCSON	86	50	89	39	68	13	0	-2	0	0	0	2.1	140	52	13	0	0	1	0	0
YUMA	93	59	95	51	76	14	0	-1	0	0	0	.4	57	50	15	6	0	0	0	0
AR FORT SMITH	64	32	82	19	48	3	0	-8	0	0	0	3.8	84	85	27	0	3	3	0	0
LITTLE ROCK	60	37	80	29	49	2	.1	-9	.1	0	0	3.6	47	71	33	0	2	2	1	0
CA BAKERSFIELD	72	49	75	42	60	5	0	-2	0	0	0	1.9	90	98	63	0	0	0	0	0
EUREKA	60	51	69	49	55	6	0	-1.2	0	0	0	17.5	141	90	79	0	0	1	0	0
FRESNO	72	51	76	45	62	10	0	-4	0	0	0	5.8	145	96	60	0	0	0	0	0
LOS ANGELES	73	56	87	53	64	7	0	-5	0	0	0	7.7	138	89	56	0	0	0	0	0
RED BLUFF	76	49	82	46	63	11	0	-7	0	0	0	13.0	165	97	44	0	0	0	0	0
SACRAMENTO	70	52	74	49	61	9	0	-6	0	0	0	12.4	177	100	69	0	0	0	0	0
SAN DIEGO	72	55	85	50	64	5	0	-4	0	0	0	3.3	92	89	53	0	0	0	0	0
SAN FRANCISCO	71	52	77	50	61	9	0	-7	0	0	0	12.2	153	97	61	0	0	0	0	0
CO DENVER	66	32	74	20	49	14	0	-2	0	0	0	.9	75	74	19	0	4	4	1	0
GRAND JUNCTION	64	34	68	30	49	12	0	-1	0	0	0	.5	42	70	22	0	3	3	0	0
PUEBLO	72	26	80	17	49	12	0	-1	0	0	0	.4	80	70	13	0	6	6	0	0
CT BRIDGEPORT	35	22	39	13	28	5	T	-8	T	0	0	5.4	84	66	38	0	7	7	0	0
HARTFORD	34	16	40	9	25	11	T	-8	T	0	0	8.4	124	71	42	0	7	7	0	0
DC WASHINGTON	37	26	43	23	32	5	.6	-1	.4	0	0	5.9	107	81	45	0	7	7	3	1
FL APALACHICOLA	66	45	74	33	55	-1	T	-9	T	0	0	9.1	125	91	38	0	0	0	0	0
DAYTONA BEACH	68	46	79	34	57	-3	.3	-5	.3	0	0	8.4	150	96	48	0	0	0	0	0
JACKSONVILLE	64	43	75	33	54	-4	.4	-5	.3	0	0	9.2	137	92	43	0	0	0	0	0
KEY WEST	75	61	83	51	68	-4	.9	-5	.8	.1	117	3.4	92	88	53	0	0	0	1	0
MIAMI	76	52	85	45	64	-5	T	-4	T	0	0	6.8	162	88	38	0	0	0	0	0
ORLANDO	67	48	80	39	58	-5	.2	-6	.2	T	0	9.0	180	95	45	0	0	0	0	0
TALLAHASSEE	66	37	78	26	52	-4	T	-3	T	0	0	12.3	124	89	28	0	3	3	0	0
TAMPA	67	51	76	40	59	-4	.2	-6	.2	.2	142	3.9	74	92	51	0	0	0	4	0
WEST PALM BEACH	75	52	85	42	64	-4	.2	-5	.1	.1	78	8.0	148	90	44	0	0	0	0	0
GA ATLANTA	55	32	69	24	43	-4	T	-1.2	T	0	0	3.4	36	78	33	0	4	3	2	1
AUGUSTA	61	35	69	29	48	-2	.1	-1.0	.1	0	0	4.0	49	85	30	0	3	3	0	0
MACON	62	34	70	29	48	-3	.1	-1.1	.1	0	0	5.7	63	86	31	0	4	1	2	0
SAVANNAH	62	41	71	32	51	-3	.2	-6	.1	.1	117	7.5	117	88	34	0	1	0	3	1
HI HILO	82	65	87	63	74	2	.1	-3.4	.1	0	0	5.4	23	89	58	0	0	0	0	0
HONOLULU	83	64	84	59	73	0	.2	-6	.2	0	0	1.6	24	89	52	0	0	0	0	0
KAHULUI	83	65	85	60	74	2	0	-8	.2	0	0	1.9	25	94	57	0	0	0	0	0
LIHUE	81	63	84	58	72	0	.1	-8	.1	T	0	1.2	12	86	53	0	0	0	1	1
ID BOISE	64	39	70	34	51	13	.5	-3	.5	0	0	5.8	215	87	46	0	0	0	0	0
LEWISTON	61	42	72	36	52	11	.2	-1	.2	0	0	1.8	78	85	55	0	0	0	1	1
POCATELLO	59	34	62	26	47	15	.1	-2	.1	0	0	3.9	195	93	47	0	3	1	1	0
IL CHICAGO	33	17	39	8	25	-4	.3	-1	.1	0	0	2.8	93	92	56	0	7	4	0	0
MOLINE	33	18	41	14	26	-3	.1	-3	.1	0	0	2.8	93	89	59	0	7	2	2	0
PEORIA	32	16	38	7	24	-6	.4	-1	.4	0	0	2.0	65	93	67	0	7	2	0	0
QUINCY	37	21	48	14	29	-3	.2	-3	.2	0	0	2.2	76	93	62	0	6	2	2	0
ROCKFORD	32	16	38	8	24	-3	.3	-1	.2	0	0	3.1	115	93	58	0	7	3	3	0
SPRINGFIELD	35	19	44	7	27	-6	.5	0	.4	0	0	1.8	53	88	60	0	7	3	3	0
IN EVANSVILLE	43	26	57	17	35	-3	.3	-5	.3	0	0	6.7	110	90	51	0	6	4	4	0
FORT WAYNE	30	14	33	6	22	-8	.4	-2	.2	0	0	3.6	88	95	66	0	7	4	0	0
INDIANAPOLIS	35	18	38	12	26	-7	.5	-2	.4	0	0	3.7	71	95	55	0	7	3	3	0
SOUTH BEND	32	17	35	8	24	-5	.5	-1	.3	0	0	3.7	80	89	56	0	7	4	0	0
IA DES MOINES	38	21	49	13	29	1	T	-4	T	0	0	1.9	86	88	60	0	7	7	0	0
SIOUX CITY	46	22	63	12	34	7	T	-3	T	0	0	.8	50	90	54	0	6	0	1	0
WATERLOO	31	8	38	0	19	-5	T	-3	T	0	0	2.8	147	93	69	0	7	7	0	0
KS CONCORDIA	59	31	76	24	45	11	T	-3	T	0	0	1.3	87	81	35	0	5	5	0	0
DODGE CITY	67	32	78	28	49	12	0	-2	0	0	0	.4	36	75	25	0	5	5	0	0
GOODLAND	63	32	75	25	48	14	0	-1	0	0	0	.4	50	84	27	0	4	6	0	0
TOPEKA	54	28	69	23	41	5	T	-3	T	0	0	1.6	80	92	47	0	6	6	0	0
WICHITA	62	34	78	25	48	10	T	-3	T	0	0	1.3	81	80	36	0	3	3	0	0
KY BOWLING GREEN	49	27	65	19	38	-2	.3	-8	.2	0	0	4.8	55	90	44	0	5	3	3	0
LEXINGTON	41	23	55	12	32	-6	.3	-7	.2	0	0	3.0	43	88	47	0	7	3	0	0
LOUISVILLE	43	25	56	17	34	-5	.2	-7	.1	0	0	4.8	71	83	47	0	6	3	3	0
LA ALEXANDRIA	68	41	84	26	54	-2	T	-1.4	T	0	0	3.3	32	79	33	0	1	1	0	0
BATON ROUGE	68	42	80	28	55	-1	T	-1.2	T	0	0	5.2	54	87	32	0	1	1	0	0
LAKE CHARLES	69	43	79	29	56	-1	T	-9	T	0	0	3.7	45	98	38	0	1	0	0	0
NEW ORLEANS	68	45	78	33	56	-1	T	-1.3	T	0	0	6.4	62	88	35	0	0	0	0	0

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

Weather Data for the Week Ending March 1, 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
SHREVEPORT	70	39	87	23	54	2	T	-1.8	T	0	0	3.9	51	84	25	0	2	0	0
ME CARIBOU	26	6	32	-5	15	-1	.1	-1.4	.1	0	0	6.0	130	81	54	0	7	2	0
PORTLAND	34	15	39	11	24	-1	.1	-1.9	.1	0	0	9.2	123	82	43	0	7	1	0
MD BALTIMORE	36	22	41	17	29	-8	-4	-1.4	.3	0	0	5.9	97	93	48	0	7	2	0
SALISBURY	38	24	44	20	31	-8	-1	-1.8	.1	0	0	8.0	118	89	46	0	7	2	0
MA BOSTON	36	21	43	14	28	-5	-1	-1.0	.1	0	0	6.3	81	72	44	0	7	1	0
CHATHAM	34	23	39	16	29	-4	-1	-1.9	.1	0	0	5.6	65	—	—	0	7	1	0
MI ALPENA	25	5	32	-7	15	-5	-2	-2.2	.2	0	0	2.1	70	88	51	0	7	1	0
DETROIT	30	15	33	6	22	-6	-2	-1.3	.1	0	0	4.6	128	88	53	0	7	2	0
FLINT	25	9	30	0	17	-9	-1	-1.4	.1	0	0	2.9	94	94	58	0	7	2	0
GRAND RAPIDS	29	13	31	3	21	-6	-1	-1.1	.1	0	0	4.4	126	89	53	0	7	1	0
HOUGHTON LAKE	26	5	30	-7	15	-5	-2	-1.1	.1	0	0	2.5	89	85	50	0	7	2	0
LANSING	27	9	31	1	18	-8	-1	-1.3	.1	0	0	3.1	91	94	61	0	7	2	0
MARQUETTE	25	2	37	-13	14	-3	-6	-1.1	.5	0	0	4.2	105	95	56	0	7	3	0
MUSKEGON	29	14	32	5	22	-5	-2	-1.3	.2	0	0	3.5	85	89	56	0	7	1	0
MN SAULT STE. MARIE	23	4	30	-10	13	-3	-2	-1.3	.1	0	0	2.6	65	89	54	0	7	2	0
ALEXANDRIA	31	10	39	-3	21	-4	-1	-1.1	.1	0	0	2.1	131	95	69	0	7	1	0
DULUTH	27	3	38	-21	15	-4	-2	-1.1	.2	0	0	1.4	67	93	54	0	7	2	0
INT'L FALLS	27	5	39	-22	16	-4	-1	-1.1	.1	0	0	1.5	94	94	62	0	7	4	0
MINNEAPOLIS	29	10	36	1	20	-2	-2	-1.1	.1	0	0	1.7	100	93	66	0	7	4	0
ROCHESTER	27	7	34	-1	17	-4	-2	-1.1	.1	0	0	1.2	80	95	74	0	7	3	0
MS GREENWOOD	62	33	80	19	48	-2	0	-1.2	.1	0	0	2.0	20	80	31	0	4	0	0
JACKSON	63	32	82	19	47	-4	-1	-1.1	.1	0	0	2.3	24	89	30	0	3	0	0
MERIDIAN	62	32	82	21	47	-4	-1	-1.3	.1	0	0	3.4	35	89	27	0	3	0	0
MO CAPE GIRARDEAU	52	29	72	19	40	-2	T	-1.9	.1	0	0	3.8	62	92	50	0	5	6	0
COLUMBIA	47	27	60	17	37	3	T	-1.5	.1	0	0	3.7	106	88	50	0	6	0	0
KANSAS CITY	49	28	61	21	38	3	T	-1.4	.1	0	0	1.3	57	87	51	0	6	6	0
SAINT LOUIS	45	26	62	16	36	-1	T	-1.6	.1	0	0	4.8	120	88	51	0	6	1	0
SPRINGFIELD	55	29	68	18	42	3	T	-1.5	.1	0	0	2.0	53	82	37	0	2	0	0
MT BILLINGS	55	38	65	31	47	16	T	-1.1	.1	0	0	2.1	124	73	39	0	5	2	0
GLASGOW	40	24	47	5	32	12	T	-1.2	.1	0	0	.8	89	91	70	0	6	1	0
GREAT FALLS	57	35	68	25	46	17	T	-1.1	.1	0	0	1.3	72	79	38	0	2	0	0
HAVRE	49	29	59	1	39	16	0	-1.1	.1	0	0	1.4	40	92	61	0	3	0	0
HELENA	56	30	60	24	43	14	.1	-1.1	.1	0	0	1.5	136	90	43	0	3	2	0
KALISPELL	47	26	52	19	37	8	.3	-1.1	.1	0	0	4.1	152	93	53	0	5	4	0
MILES CITY	50	29	60	7	39	14	T	-1.1	.1	0	0	1.2	100	92	56	0	4	1	0
MISSOULA	48	29	52	22	38	8	.5	.3	.3	0	0	3.1	141	100	69	0	6	4	0
NE GRAND ISLAND	57	28	75	20	42	12	T	-1.3	.1	0	0	.5	36	87	41	0	6	0	0
LINCOLN	51	25	67	20	38	8	T	-1.3	.1	0	0	.5	29	87	51	0	6	0	0
NORFOLK	50	25	68	18	38	11	T	-1.3	.1	0	0	1.2	86	88	51	0	6	0	0
NORTH PLATTE	59	29	75	25	44	14	.1	-1.1	.1	0	0	1.2	120	91	40	0	7	1	0
OMAHA	44	26	57	19	35	6	.1	-1.2	.1	0	0	1.0	59	85	65	0	6	5	0
SCOTT'S BLUFF	60	29	72	21	45	12	T	-1.1	.1	0	0	1.9	238	86	35	0	5	1	0
VALENTINE	53	27	69	22	40	14	T	-1.1	.1	0	0	.6	75	83	45	0	6	0	0
NV ELY	64	29	87	27	46	16	0	-1.2	.1	0	0	1.0	71	89	28	0	7	0	0
LAS VEGAS	83	51	87	45	67	15	0	-1.1	.1	0	0	.4	40	44	17	0	0	0	0
RENO	70	35	75	33	53	14	0	-1.2	.1	0	0	5.2	236	91	29	0	0	0	0
WINNEMUCCA	69	33	74	30	51	14	0	-1.1	.1	0	0	1.2	75	90	31	0	4	7	0
NH CONCORD	32	10	39	3	21	-4	T	-1.6	.1	0	0	7.2	136	86	46	0	7	1	0
NJ ATLANTIC CITY	36	18	41	8	27	-8	.4	-1.5	.1	0	0	7.6	110	91	41	0	7	3	0
NM ALBUQUERQUE	68	37	76	31	53	11	0	-1.1	.1	0	0	1.2	150	60	18	0	1	0	0
CLOVIS	69	40	77	34	55	11	0	-1.1	.1	0	0	1.2	109	59	19	0	0	0	0
ROSWELL	76	38	85	31	57	9	0	-1.1	.1	0	0	1.2	240	57	14	0	2	0	0
NY ALBANY	28	12	33	3	20	-6	T	-1.6	.1	0	0	6.2	132	85	51	0	7	2	0
BINGHAMTON	24	12	29	5	18	-7	.2	-1.4	.2	0	0	6.1	122	85	48	0	7	3	0
BUFFALO	25	15	31	9	20	-7	.1	-1.6	.1	0	0	4.9	89	89	58	0	7	6	0
NEW YORK	36	25	40	18	30	-5	T	-1.8	.1	0	0	7.3	116	69	35	0	7	2	0
ROCHESTER	26	15	31	4	20	-6	.1	-1.5	.1	0	0	3.4	72	85	55	0	7	5	0
SYRACUSE	26	13	31	-2	19	-7	.2	-1.5	.2	0	0	4.6	85	91	59	0	7	6	0
NC ASHEVILLE	44	26	54	19	35	-6	.1	-1.9	.1	0	0	3.0	42	85	48	0	6	2	0
CHARLOTTE	51	32	61	27	42	-4	.1	-1.0	.1	0	0	2.0	26	79	41	0	3	1	0
GREENSBORO	45	27	55	22	36	-6	.2	-1.7	.2	0	0	2.4	34	87	42	0	7	2	0
HATTERAS	47	37	60	32	42	-5	.4	-1.6	.2	0	0	7.1	79	87	56	0	0	3	0
NEW BERN	50	34	56	27	42	-6	.5	-1.5	.4	0	0	5.0	62	85	42	0	2	3	0
RALEIGH	46	28	56	19	37	-7	.5	-1.4	.3	0	0	4.1	58	93	46	0	6	3	0
WILMINGTON	53	35	63	28	44	-5	.2	-1.7	.1	0	0	4.6	64	88	41	0	1	3	0
ND BISMARCK	39	22	49	5	30	12	T	-1.1	.1	0	0	.6	60	92	65	0	6	0	0
FARGO	28	13	37	-1	21	6	T	-1.1	.1	0	0	1.1	110	94	75	0	7	0	0
GRAND FORKS	28	9	35	-5	18	5	T	-1.1	.1	0	0	1.0	77	95	78	0	7	0	0
WILLISTON	40	27	50	9	34	15	T	-1.1	.1	0	0	1.0	91	94	66	0	5	0	0
OH AKRON-CANTON	29	16	36	7	22	-8	.1	-1.5	.1	0	0	4.5	94	91	55	0	7	2	0
CINCINNATI	36	20	43	11	28	-7	.3	-1.5	.1	0	0	3.9	66	89	52	0	7	3	0
CLEVELAND	28	14	33	4	21	-9	.1	-1.5	.1	0	0	5.3	110	91	55	0	7	3	0
COLUMBUS	33	17	38	6	25	-8	.3	-1.3	.2	0	0	4.5	90	90	52	0	7	2	0

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

Weather Data for the Week Ending March 1, 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 °F		PRECIPITATION		
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE	
DAYTON	32	16	37	6	24	-8	.5	-.1	.3	0	0	5.4	113	91	58	0	7	4	0	
TOLEDO	30	14	32	6	22	-7	.2	-.3	.2	0	0	3.5	90	95	60	0	7	2	0	
YOUNGSTOWN	29	15	35	7	22	-7	.7	-.6	.2	0	0	3.1	62	90	55	0	7	1	0	
OK OKLAHOMA CITY	66	39	82	29	53	9	0	-.4	0	0	0	1.6	26	68	29	0	2	0	0	
TULSA	64	35	79	27	50	6	0	-.5	0	0	0	1.2	38	79	30	0	2	0	0	
OR ASTORIA	58	47	65	40	52	8	3.4	1.6	2.9	0	0	20.1	104	97	75	0	0	0	1	
BURNS	59	34	62	29	46	11	0	-.1	0	0	0	4.3	478	—	—	0	0	0	0	
MEDFORD	65	45	72	42	55	11	.1	-.4	0	0	0	7.3	130	98	60	0	4	0	0	
PENDLETON	60	43	72	35	52	10	.7	-.7	0	0	0	7.3	130	98	60	0	2	1	0	
PORTLAND	63	47	68	42	55	10	1.3	-.3	1.1	0	0	4.2	145	95	63	0	1	1	0	
SALEM	63	47	70	41	55	11	.5	-.3	1.1	0	0	10.0	98	95	63	0	2	2	1	
PA ALLENTOWN	34	20	38	15	27	-5	.5	-.5	.3	0	0	14.4	122	96	67	0	0	0	0	
ERIE	26	15	31	12	21	-6	.1	-.7	.1	0	0	8.6	132	73	33	0	7	2	0	
HARRISBURG	35	22	37	16	29	-6	.1	-.6	.1	0	0	4.4	94	91	62	0	7	1	0	
PHILADELPHIA	37	22	42	18	30	-6	.1	-.7	0	0	0	6.7	116	74	39	0	7	3	0	
PITTSBURGH	31	18	35	9	24	-7	.1	-.6	.1	0	0	7.5	123	79	38	0	7	2	0	
SCRANTON	29	17	34	11	23	-6	.1	-.5	.1	0	0	5.6	104	80	42	0	7	2	0	
RI PROVIDENCE	37	20	43	13	28	-3	.7	-.5	.7	0	0	5.2	118	74	41	0	7	1	0	
SC CHARLESTON	37	20	43	11	28	-3	.7	-.5	.7	0	0	9.2	116	70	38	0	7	0	0	
COLUMBIA	59	39	69	29	49	-3	.4	-.5	.4	0	0	6.2	91	88	39	0	1	1	0	
FLORENCE	59	33	70	25	46	-3	.1	-.0	.1	0	0	2.5	29	85	28	0	4	3	0	
GREENVILLE	58	38	71	29	48	-1	.1	-.9	.1	0	0	2.2	31	87	36	0	1	1	0	
SD ABERDEEN	53	32	64	27	43	-3	.1	-.2	.1	0	0	2.6	30	78	35	0	4	1	0	
HURON	34	14	45	-8	24	4	.2	-.2	.2	0	0	1.1	92	94	71	0	3	6	0	
RAPID CITY	34	17	44	-5	26	4	.2	-.2	.2	0	0	.8	67	92	73	0	0	0	0	
SIOUX FALLS	50	28	65	18	39	11	.2	-.1	.1	0	0	1.4	127	90	50	0	2	1	0	
TN CHATTANOOGA	36	16	46	-1	26	3	.2	-.3	.2	0	0	.8	53	91	67	0	6	4	0	
KNOXVILLE	49	27	63	18	38	-2	.1	-.2	.1	0	0	4.7	47	83	35	0	4	2	0	
MEMPHIS	57	33	75	22	45	-1	.4	-.8	.2	0	0	4.9	54	86	39	0	6	2	0	
NASHVILLE	51	30	71	22	41	-3	.1	-.1	.1	0	0	3.2	35	80	34	0	1	1	0	
TX ABILENE	74	42	88	34	58	8	0	-.2	0	0	0	3.8	44	79	33	0	5	0	0	
AMARILLO	69	35	78	26	52	10	0	-.2	0	0	0	1.5	75	61	20	0	1	0	0	
AUSTIN	75	45	89	35	60	4	0	-.6	0	0	0	1.0	91	73	20	0	3	0	0	
BEAUMONT	74	43	85	30	59	1	0	-.8	0	0	0	1.6	38	72	24	0	0	0	0	
BROWNSVILLE	80	49	87	41	64	-1	0	-.3	0	0	0	2.9	36	97	30	0	1	0	0	
CORPUS CHRISTI	78	46	89	37	62	1	0	-.2	0	0	0	1.3	46	94	31	0	0	0	0	
DEL RIO	81	48	95	38	64	6	0	-.3	0	0	0	2.8	88	89	28	0	0	0	0	
EL PASO	75	36	83	25	56	5	0	-.1	0	0	0	1.8	129	48	14	1	0	0	0	
FORT WORTH	72	41	88	29	56	5	0	-.5	0	0	0	.4	44	49	15	0	2	0	0	
GALVESTON	68	52	75	42	60	3	0	-.5	0	0	0	2.5	68	71	25	0	1	0	0	
HOUSTON	75	44	86	31	59	3	0	-.7	0	0	0	2.4	44	83	41	0	0	0	0	
LUBBOCK	73	39	84	34	56	11	0	-.2	0	0	0	3.5	53	82	26	0	1	0	0	
MIDLAND	76	41	87	38	58	8	0	-.1	0	0	0	.9	90	64	17	0	0	0	0	
SAN ANGELO	76	40	89	36	58	5	0	-.2	0	0	0	.4	40	51	14	0	0	0	0	
SAN ANTONIO	77	42	89	32	60	3	0	-.2	0	0	0	.9	60	57	17	0	0	0	0	
VICTORIA	77	44	88	34	61	2	0	-.5	0	0	0	3.3	94	71	20	0	0	0	0	
WACO	72	38	89	29	55	2	0	-.5	0	0	0	1.8	43	87	25	0	0	0	0	
WICHITA FALLS	73	37	85	27	55	7	0	-.3	0	0	0	4.6	121	86	30	0	2	0	0	
UT ELANDING	66	34	70	29	50	14	0	-.2	0	0	0	1.1	55	71	25	0	2	0	0	
CEDAR CITY	70	31	76	30	50	14	0	-.2	0	0	0	1.6	70	74	24	0	6	0	0	
SALT LAKE CITY	62	39	67	34	51	14	T	-.3	T	0	0	.7	47	83	26	0	0	0	0	
VT BURLINGTON	26	6	34	-8	16	-5	.1	-.3	.1	T	0	2.1	78	84	35	0	1	0	0	
VA NORFOLK	41	31	45	26	36	-7	.5	-.3	.5	0	0	5.4	150	88	53	0	7	3	0	
RICHMOND	42	26	49	21	34	-7	.1	-.7	.1	0	0	5.2	73	87	48	0	6	4	1	
ROANOKE	40	25	49	20	32	-8	.3	-.5	.2	0	0	5.2	80	93	44	0	7	3	0	
WA COLVILLE	49	32	56	25	41	7	.2	-.1	.2	0	0	3.8	62	83	42	0	7	2	0	
QUILLAYUTE	54	42	65	35	48	6	6.9	4.0	3.3	T	0	5.4	146	94	74	0	5	1	0	
SEATTLE-TACOMA	60	45	68	40	53	9	1.8	-.8	1.1	0	0	28.9	105	100	82	0	0	3	1	
SPOKANE	54	36	59	30	45	11	.2	-.2	.2	0	0	13.1	126	97	60	0	0	5	3	
YAKIMA	60	35	68	30	48	9	.2	-.1	.2	0	0	5.0	122	96	62	0	3	1	0	
WV BECKLEY	32	19	40	9	26	-10	.3	-.6	.2	0	0	3.1	141	96	48	0	1	2	0	
CHARLESTON	37	24	46	15	31	-8	.8	-.1	.4	0	0	4.2	62	93	57	0	7	4	0	
HUNTINGTON	36	23	47	12	30	-9	.6	-.2	.3	0	0	6.4	96	78	49	0	6	3	0	
PARKERSBURG	33	17	39	4	25	-11	.5	-.3	.3	0	0	4.9	79	90	51	0	6	6	0	
WI GREEN BAY	27	9	32	2	18	-3	.2	-.1	.1	0	0	5.2	75	93	51	0	7	3	0	
LA GROSSE	31	10	39	-2	21	-3	.1	-.2	.1	0	0	1.1	48	88	55	0	7	3	0	
MADISON	29	6	35	-3	18	-7	.4	-.1	.3	0	0	1.3	68	87	53	0	7	2	0	
MILWAUKEE	30	17	35	9	24	-2	.4	0	.3	0	0	3.5	159	91	55	0	7	4	0	
WAUSAU	30	6	35	-3	18	-1	.3	0	.3	T	0	4.8	160	86	54	0	7	4	0	
WY CASPER	30	6	35	-3	18	-1	.3	0	.3	T	0	1.4	74	83	46	0	7	1	0	
CHEYENNE	57	31	65	22	44	15	T	-.1	T	0	0	1.2	109	82	35	0	5	0	0	
LANDER	58	31	67	17	44	14	T	-.1	T	0	0	.6	75	75	27	0	.4	1	0	
SHERIDAN	57	31	64	25	44	16	0	-.2	0	0	0	1.3	118	81	36	0	4	0	0	
FR SAN JUAN	56	33	64	23	44	16	.1	-.1	.1	0	0	.9	60	84	38	0	4	1	0	
	85	68	88	67	77	0	T	-.5	T	0	0	3.3	66	89	47	0	0	0	0	

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

HEATING DEGREE DAY DATA WEEKLY SUMMARY  
CLIMATE ANALYSIS CENTER—FMC—NWS—NOAA  
ASSESSMENT AND INFORMATION SERVICES CENTER—NWS—NOAA

LAST DATE OF DATA COLLECTION PERIOD IS 3-1-1986  
ACCUMULATIONS ARE FROM JULY 1  
\*\* = NORMAL LESS THAN 100 OR RATIO INCALCULABLE

Table with columns: STATE CITY, CALL WEEK, WEEK WEEK, CUM TOTAL, CUM DEV, CUM PRCT, STATE CITY, CALL WEEK, WEEK WEEK, CUM TOTAL, CUM DEV, CUM PRCT. Lists weather data for various cities including Birmingham, Mobile, Montgomery, Anchorage, Barrow, Fairbanks, Juneau, Kodiak, Nome, Flagstaff, Phoenix, Prescott, Tucson, Winslow, Yuma, Fort Smith, Little Rock, Bakersfield, Eureka, Fresno, Los Angeles, Red Bluff, Sacramento, San Diego, San Francisco, Stockton, Denver, Grand Junction, Pueblo, Bridgeport, Hartford, De Witt, Washington, DC, Alachua, Daytona Beach, Fort Meyer, Jacksonville, Key West, Miami, Orlando, Tallahassee, Tampa, West Palm Beach, Atlanta, Augusta, Macon, Savannah, Hilo-Hawaii, Honolulu-Oahu, Kahului-Maui, Lahui-Kauai, Boise, Lewiston, Pocatello, Chicago, Moline, Peoria, Quincy, Rockford, Springfield, Evansville, Fort Wayne, Indianapolis, South Bend, Des Moines, Dubuque, Sioux City, Waterloo, Concordia, Dodge City, Goodland, Topeka, Wichita, Bowling Green, Lexington, Louisville, Alexandria, Baton Rouge, Lake Charles, New Orleans, Shreveport, Caribou, Portland, Baltimore, Salisbury, Boston, Chatham, Alpena, Detroit, Flint, Grand Rapids, Houghton Lake, Lansing, Marquette, Muskegon, Sault Ste Marie, Alexandria, Duluth, Int'l Falls, Minneapolis, Rochester, Saint Cloud, Greenwood, Jackson, Meridian, Cape Girardeau, Columbia, Kansas City, Saint Louis, Springfield, Billings, Glasgow, Great Falls, Havre, Helena, Kalispell, Miles City, Missoula, Grand Island, Lincoln, Norfolk, North Platte, Omaha, Scottsbluff, Valentine, Ely, Las Vegas, Reno, Winnemucca, Concord, Atlantic City, Albuquerque, Clovis, Roswell, Albany, Binghamton, Buffalo, New York, Rochester, Syracuse, Asheville, Cape Hatteras, Charlotte, Greensboro, New Bern, Raleigh Durham, Wilmington, Bismarck, Fargo, Grand Forks, Williston, Akron-Canton, Cleveland, Columbus, Cincinnati, Dayton, Toledo, Youngstown, Oklahoma City, Tulsa, Astoria, Burns, Medford, Eureka, Portland, Salem, Allentown, Erie, Harrisburg, Philadelphia, Pittsburgh, Scranton, Providence, Charleston, Columbia, Florence, Greenville, Aberdeen, Huron, Rapid City, Sioux Falls, Chattanooga, Knoxville, Memphis, Nashville, Abilene, Amarillo, Austin, Brownsville, Corpus Christi, Del Rio, El Paso, Fort Worth, Galveston, Houston, Lubbock, Midland-Odessa, Beaumont, San Angelo, San Antonio, Victoria, Waco, Wichita Falls, Blanding, Cedar City, Salt Lake City, Burlington, Lincolnburg, Norfolk, Richmond, Roanoke, Colville, Quillayute, Seattle-Tacoma, Spokane, Walla Walla, Yakima, Buckley, Charleston, Huntington, Parkersburg, Green Bay, Lacrosse, Madison, Milwaukee, Muskegon, Casper, Cheyenne, Lander, Sheridan.

## National Agricultural Summary

February 24 to March 2, 1986

**HIGHLIGHTS:** Sporadic precipitation interrupted fieldwork across the eastern half of the Nation. Warmer-than-normal temperatures melted most of the snow cover, leaving small grains vulnerable to freeze damage in the Pacific Northwest and in the Rocky Mountain States. However, the warm temperatures promoted growth. Soil moisture was generally adequate in most areas of the Nation except in the Great Plains where more moisture is needed. In the Southeast, some farmers were able to work 6 days but for the most part fieldwork averaged 5 days or less.

The warm weather spurred planting activity in the Southeast. Corn planting was underway from Texas to Florida. Cotton seeding continued in Arizona. Maple syrup harvest gained momentum in the New England States. Freezing temperatures reached into Florida, but damage to fruit and vegetables was minimal. Livestock welcomed the warm temperatures as stress eased. Supplemental feeding decreased easing pressure on short hay supplies in some areas.

**SMALL GRAINS:** Warm temperatures promoted growth with small grains greening as far north as Oregon. Snow virtually vanished from the Pacific Northwest and the Rocky Mountain States, but damage to small grains has been minimal thus far. Spring oat and barley seeding was underway in the central Plains.

Warm temperatures enhanced wheat growth in Oklahoma. The wheat was mostly good and approximately 5 percent (%) of the acreage had reached the jointing stage. Texas wheat grew well, but additional moisture is needed. Rust disease increased in some varieties in east, central, and south Texas. Early wheat was jointing in the Blacklands. Nebraska's wheat was mostly good with the poorest wheat in the southeast. Growers in western Nebraska were concerned about late freezes with wheat coming out of dormancy earlier than normal. Even though wheat and small grains were under snow cover in the northern Great Plains States, the thickness has diminished considerably. Drier weather improved small grains in California.

**OTHER CROPS:** Land preparation and planting increased as soils dried, especially in the Southeast. Corn planting spread eastward to Florida. Seeding was 15% finished in Texas compared with 1% last year and 3% normally. Corn planting was just underway in Georgia and 2% of Louisiana's acreage was in the ground. Grain sorghum seeding reached 4% completion in Texas. Some Corn Belt farmers harvested corn left from the 1985 crop. Tobacco seedbed seeding and preparation neared completion in Georgia. Georgia's tobacco plants were good. Seeding was active in the Carolina's and in Virginia.

**FRUIT AND NUTS:** Florida's citrus escaped serious damage when below freezing temperatures did not materialize over citrus areas. Irrigation continued but on a limited scale. Early and midseason orange harvest slowed, but grapefruit movement was active. Water damage to California's fruit and nuts was still being assessed. However, full assessment may take several weeks. Spraying for brown rot and other moisture related disease continued in all orchards. Almond bloom neared completion. Grape vineyards began leafing out. Peaches reached full bloom and pears came out of dormancy. Navel orange harvest increased to meet demand. Granulation increased cullage. Valencia orange harvest began in the desert. Grapefruit and tangerine were actively harvested in the desert. Arizona's sweet orange harvest ended. Lemons, grapefruit, Valencia oranges, and tangerines were packed. Central Georgia peach growers were concerned about cold injury to early peach varieties as a result of freezing temperatures. In South Carolina, peach prospect continued to look good with little cold weather damage thus far.

**VEGETABLES:** Freezing temperatures hit Florida's vegetable areas, producing mostly frost. Damage was limited mostly to foliage burn and some bloom drop. Tender vegetable output is expected to be down over the next few weeks. Spring planting neared completion in the southern areas but increased in the central areas of the State. Harvest was active in the southern areas with the bulk of the supply from the southeast and Everglades. Total shipments declined due to lower volume of cauliflower, sweet corn, eggplant, peppers, radishes, strawberries, and tomatoes. In Arizona, vegetable packing was very active in Yuma County and in the Salt River Valley. Broccoli moved in the Elroy District along with Chinese vegetables in Pima County. Spring lettuce, potatoes, and dry onions progressed normally. Potato planting and lettuce thinning continued. In California, artichoke quality and appearance began improving. Asparagus harvest started in the San Joaquin Valley with more activity in the southern areas. Broccoli supplies were moderate from Salinas but decreased in the central valley and desert. In Orange County, spring lettuce progressed well with harvest expected in early April. Lettuce harvest slowed in the Imperial Valley, but volume increased in the Palo Verde Valley. South coast strawberry harvest was active, but cullage on first crop was high because of the wet weather.

**PASTURES AND LIVESTOCK:** Warm weather improved pasture growth in most areas of the Nation. Livestock were mostly good. Warm temperatures eased stress. Hay supplies are critically short in some areas, but warm temperatures reduced some of the pressure.

Picking a Safe Planting Date

It's that time of year again when colorful seed catalogs are in demand, and agriculturists are full of enthusiasm and expectation as the spring planting season approaches. Growers need all the weather and climatic information that is available to help reduce the risk of replanting which can be costly not only for loss of seed, labor, and soil moisture, but because it affects crop development schedules, yield, and price received.

Three primary ingredients are needed to obtain a good stand of seedlings---warm soil and air temperatures after planting, adequate soil moisture, and high quality seed.

To keep up with the status of spring soil temperatures and the speed that warming progresses northward, a soil temperature map will be published on a space-available basis. The 4-inch bare soil measurement was selected because of its widespread use across the Nation and as a compromise between the 2, 6, and 8-inch observations

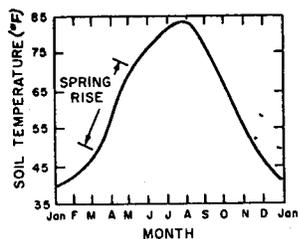


Figure 1—Average monthly 4-inch soil temperature near Northeast Arkansas with Experiment Station, Keiser, Arkansas.

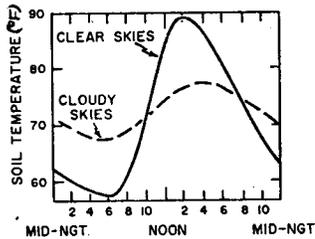


Figure 2—Hourly 4-inch soil temperature in May near Keiser, Arkansas with clear skies and cloudy skies.

From Soil Temperatures and Cotton Planting in the Mid-South by Riley, Newton, Measells, Downey and Hand. Miss. Ag. Exp. Sta. Bul. 678, Feb. 1964.

that are used in a few areas. The weekly average was selected as the best measure to represent the temperature regime. It is the mean of the daily maxima and minima. The soil temperature data is supplied by the National Weather Service, state universities, and USDA.

Four-inch soil temperatures vary throughout the year and follow a pattern similar to those of air temperatures but with a slight time lag. Figure 1 shows the month-to-month variation and the springtime rapid rise. Figure 2 indicates the hour-to-hour variations. The solid line depicts the diurnal (daily) changes under clear skies while the dashed line shows the smaller changes that occur under cloudy conditions. The average for the day can be ascertained from the 10 to 11 a.m. reading.

Location and depth of soil thermometers, time of observations, interpretation and planting rules vary considerably across the Nation. Even within a state variations can occur.

How warm must the soil be for seed germination? This depends upon the type of crop. It ranges from low for wheat and cabbage to moderate for corn and tomatoes to high for cotton and watermelon. Duration of temperature is also a controlling factor; more days are necessary for emergence at the cooler temperatures than when the optimum range is reached. Temperature-duration-crop germination data is contained in the accompanying tables 1, 2, and 3.

Crop planting rules differ greatly, although most appear to be based upon soil temperatures averaging between the minimum for germination and the lower value of the optimum range. Seed

quality is also a controlling factor. For example, a planting rule for cotton can be derived from the emergence data obtained under actual field conditions as depicted in figure 3. In other words, to get 50% field emergence from seed having 90% laboratory germination (high quality), cotton may

TABLE 1. CARDINAL TEMPERATURE POINTS FOR GERMINATION OF CERTAIN CROP SEEDS\*

Crop	Cardinal Points in Degrees Fahrenheit			Days Required for Germination at Indicated Temperatures			
	Minimum	Optimum	Maximum	40°F	51°F	60°F	66°F
Red clover	34	86	99	7.3	3.0	1.75	1.0
Alfalfa	34	86	99	6.0	3.75	2.75	2.0
Hemp	34-36	95	113	3.0	2.0	1.0	1.0
Pens	34-36	86	95	5.0	3.0	1.75	1.75
Rye	34-36	77	86	4.0	2.5	1.0	1.0
Vetch	34-36	86	95	6.0	3.0	2.0	2.0
Flax	35-37	77	86	8.0	4.5	2.0	2.0
Timothy	37-39	79	86	—	6.5	3.25	3.0
Wheat	39-40	77	86-90	6.0	3.0	2.0	1.75
Barley	39-40	68	82-86	6.0	3.0	2.0	1.75
Oats	39-41	77	86	7.0	3.75	2.75	2.0
Carrot	39-41	77	86	—	6.75	4.25	3.25
Sugar beet	39-41	77	82-86	22.0	9.0	3.75	3.75
Lentils	39-41	86	97	6.0	4.0	2.0	1.75
Maize	40-50	89-95	104-111	—	11.25	3.25	3.0
Sorghum	40-50	89-95	104	—	11.25	4.75	4.0
Rice	50-55	86-90	97-101	—	—	—	—
Tobacco	55-57	82	95	—	—	9.0	6.25
Pumpkin	54	89-93	104	—	—	10.75	4.0
Melon	54-59	95	104	—	—	15.0	17.0

\* Adapted from data by F. Haberlandt in *Grate Ernährungsphysiologisches Practicum höherer From Crop Adaptation and Distribution by Carroll P. Wilsie. W. H. Freeman & Co. © 1962.*

SOIL TEMPERATURE CONDITIONS FOR VEGETABLE SEED GERMINATION<sup>1</sup> TABLE 2

Crop	Minimum, °F.	Optimum Range, °F.	Optimum, °F.	Maximum, °F.
Asparagus	50	60-85	75	95
Bean	60	60-85	80	95
Bean, lima	60	65-85	85	85
Beet	40	50-85	85	95
Cabbage	40	45-95	85	100
Carrot	40	45-85	80	95
Cauliflower	40	45-85	80	100
Celery	40	60-70	70 <sup>2</sup>	85 <sup>2</sup>
Chard, Swiss	40	50-85	85	95
Corn	50	60-95	95	105
Cucumber	60	60-95	95	105
Eggplant	60	75-90	85	95
Lettuce	35	40-80	75	85
Muskmelon	60	75-95	90	100
Okra	60	70-95	95	105
Onion	35	50-95	75	95
Parsley	40	50-85	75	90
Parsnip	35	50-70	65	85
Pea	40	40-75	75	85
Pepper	60	65-95	85	95
Pumpkin	60	70-90	95	100
Radish	40	45-90	85	95
Spinach	35	45-75	70	85
Squash	60	70-95	95	100
Tomato	50	60-85	85	95
Turnip	40	60-105	85	105
Watermelon	60	70-95	95	105

<sup>1</sup> Compiled by J. F. Harrington, Dept. of Vegetable Crops, Univ. of Calif. at Davis.

<sup>2</sup> Daily fluctuation to 60° or lower at night is essential.

From *Handbook for Vegetable Growers* by J. E. Knott. John Wiley & Sons, Inc. © 1957.

be planted when the soil temperature averages 66°. For seed testing 80% (medium quality), plant at 70°, or if seed quality is 70% or less (low quality), wait until the soil temperature is above 75°. The temperature limits selected were 1/4, 1/2, and 3/4 of the 20° span between the minimum germinating temperature and the beginning

## 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:** Rainfall under 0.25 in. Temperatures averaged 3 to 6° below normal. Soil normal. Livestock, poultry generally good.

**ARIZONA:** Warm upper level high pressure ridge caused sunny skies, record temperatures. Many localities reported several days with new record maximums. The 92° Phoenix equaled previous high for February. The 97° Yuma highest ever in State for February. By 1st, cloudiness associated with low pressure system spread over much of State, with few very light showers. Average temperatures for period to 10 to 15° above seasonal normals.

Wheat, barley stands good to excellent. Crops reached jointing stage western, central areas; 40% jointing, below last year's progress of over 50%. Cotton growers busy with seedbed preparation, pre-irrigation, herbicide applications; 40% of seedbeds prepared. Planting done on a few fields west. Alfalfa good to excellent. Although aphids, weevils showing up most areas. Insect, weed control measures taken. Harvest seasonally light. Sheep grazing continued. Corn planting advanced west. Sorghum bed preparation, planting should start March. Safflower progressing nicely. Lemons, grapefruit, Valencia oranges, tangerines packed. Sweet orange harvest completed. Apple tree pruning took place. Pecan shipping winding down. Yuma County, Salt River Valley vegetable packing very active. Wide variety of vegetables harvested. Broccoli moved from Eloy District, along with Chinese vegetables Pima County. Lettuce packing Parker-Poston will begin 3rd. Spring lettuce, potatoes, dry onions progressing normally. Potato planting, lettuce thinning, fertilizing took place. Warm temperatures accelerated maturing of range feed. Soil moisture adequate due to early February rains. Unless spring moisture increases, range, pasture conditions will fall short. Cattle, sheep fair to good. Stockwater supplies adequate.

**ARKANSAS:** Past week characterized by strong temperature contrast. Precipitation mostly form of snow during brief cold snap. Temperature extremes 120; 86°. Rainfall none to 0.21 in. Major farm activity fertilizer application to wheat, oats. Wheat, oats excellent. Pastures good. Livestock good. Fruit trees budding.

**CALIFORNIA:** High pressure began building over State early week ending long period of heavy rain northern areas. Rain generally limited to 22nd with remainder of week dry. Only north coast reported amounts of greater than 0.10 in. High pressure over State also accounted for record or near record warmth as Thermal recorded its first triple digit high of year.

Drier weather throughout State enhanced small grains. Fieldwork minimal due to saturated fields. Dryland small grains look good. Aerial herbicide applications continued small grains. Spraying alfalfa to control weevils. Sheeping-off, baling alfalfa desert area continued. Damage from rain, floods still being assessed. Almond bloom neared completion. Growers have to wait several weeks to assess damage. Spraying for brown rot, other moisture related diseases continued all orchards. Grape vineyards beginning to leaf out. Damage to North Coast vineyards cannot be assessed until water goes down. Peaches full bloom, pears came out of dormancy. Navel harvest increased to meet

demand. High cullage rates due to granulation reported. Desert Valencia harvest began, good quality. Desert grapefruit, tangerine harvests continued. Artichokes fairly heavy Salinas. Quality variable with frosted appearance, but improving. Asparagus harvest started San Joaquin Valley with more activity southern areas. Asparagus active desert area record high temperatures. Harvest good other areas as exports strong. Broccoli moderate Salinas variable quality. Harvest volume decreased central valley, desert as shippers completed season. Harvest active Orange County good quality, prices. Carrot desert active. Cauliflower fairly light Salinas, very light Santa Maria, variable quality. Harvest central valley continued while volume decreased desert as shippers finished. Celery Santa Maria very light. Harvest slowed, planting continued Orange County. Spring lettuce central valley progressing well with harvest expected first of April. Lettuce harvest Imperial Valley slowed as shippers finished. Spring harvest increased volume Palo Verde Valley good quality but weak demand. Bell pepper hotbeds central valley progressing well. Movement fall potatoes Tulalake-Butte Valley storages continued full-time. White Rose, Red varieties continued good quality, demand. Strawberry harvest south coast active with good prices, quality. Fungicidal sprays applied. Cullage on first crop high due to bad weather. Wet conditions prevent planting of tomatoes for processing Colusa County, fresh market tomatoes Tulare County. Planting being done Stanislaus County, ground preparation continued Orange County. Warmer weather increased grass growth. Some low level ranges pastures remained flooded. Supplemental feeding heavy some areas. Livestock generally good shape. Some reports lamb losses from coyotes. Calving continued northern districts.

**COLORADO:** Strong high pressure aloft dominated weather, bringing mostly clear skies and very warm temperatures to all areas of State. Most areas average temperatures more than 10° above normal. High pressure also kept precipitation out of State. Cold front brought very small amounts of rain, snow to northeast plains on 27th. Very little precipitation except for a few mountain snow showers.

Considerable greening of wheat fields across eastern plains, topsoil moisture low by lack of precipitation, warming winds. Most areas have good subsoil moisture. Crop off to an early start, making it vulnerable to possible freezing temperatures in March, April. Major activities care, feeding of livestock; maintenance of machinery, planning for spring planting.

**FLORIDA:** Scattered frost north, central into northern Everglades 26th. Late season freeze, widespread frost with scattered frost Homestead area 1st. Patchy frost again central, northern Everglades 2nd. Mostly dry early week but widespread late showers 28th early on 1st with rain amounts generally 0.25 in. or less. Temperatures averaged about 2 to 5° below normal.

Soil moisture supplies generally adequate. Soil few central Peninsula areas becoming dry. Some low lying flat lands, Panhandle continue very wet. Land preparation for spring planting very active as soils dried. Small grains good progress. Sugarcane harvest active on small acreage remaining to be cut. Permanent pastures

continued to recover from earlier cold but growth again slowed by mid-and-late frosts, cool temperatures. Small grain pastures generally growing well. Panhandle pastures fair to good. Pastures Peninsula poor to fair but improving slowly. Cattle mostly fair upper Peninsula, fair to good elsewhere. Predicted damaging temperatures did not materialize over citrus growing areas March 1st, 2nd. Scattered light frost. Moisture generally adequate; limited irrigation continued. Early, midseason orange harvest slowing. Grapefruit movement active all areas. Temple harvest primarily for processing. Cool weather most of week, severe weekend cold front most vegetable producing areas. Lows into 30s at midweek all areas except southeast. Lows morning of 2nd, 28th to 32° southwest, with heavy frost southeastward to Dade County, frost Everglades with lows in high 20s. Central and Pompano area high winds, little frost. Southern areas tender crops suffered top foliage burn, bloom drop. Planting spring acreage nearly complete southern areas, active central. Harvest active southern areas, bulk of supply from southeast and Everglades. Slight decrease in total shipments from previous weeks due to lower volume cauliflower, sweet corn, eggplant, peppers, radishes, strawberries, tomatoes offsetting increased movement of snap beans, cabbage, carrots, celery, Chinese cabbage, cucumbers, escarole, lettuce, potatoes, squash. Continued lower level of supplies most tender crop expected next few weeks.

**GEORGIA:** Temperatures 3 to 50 below normal. Extremes 77° Waycross, Jesup on afternoon of 27th, 130° Blairsville on morning of 2nd. Below freezing temperatures statewide over weekend 1st, 2nd. Some snow east, central morning of 1st. Warm soils prevented any major accumulation. Precipitation less than 0.25 in. most locations.

Soil moisture adequate statewide. Small grain topdressing, land preparation continued active. Tobacco bed preparation virtually complete. No transplanting yet. Tobacco plants good. Corn planting began southwest. Some concern of potential cold injury to early peach varieties central district. Small grains fair to mostly good. Pastures poor to mostly fair. Cattle fair to good. Hogs fair to mostly good.

**HAWAII:** Crops made fair progress. Winds variable 5 to 15 mph. Several frontal bands passed islands dropping light showers on isolated crop growing areas. Clean up of debris, repair to structural damages from February 16th windstorm continued on island of Hawaii. Sugarcane, pineapple being harvested. Picking of papayas active. Banana production down due to wind damage two weeks ago. Vegetable output low to moderate.

**IDAHO:** Week began wet, dried out by end of week. Precipitation mostly above normal except below normal southeast. Temperatures above normal.

Farm activity still centers around livestock care, feeding. Livestock good with lambing, calving progressing well. Feed supplies short throughout State but should be adequate unless severe winter weather returns. Producers continue to sort through storage facilities for frost damaged potatoes. Some sorting, shipping of seed potatoes continued. No field activity yet, but in early areas of southwest fieldwork could begin second week of March if weather conditions remain favorable.

**ILLINOIS:** Mean temperatures 3 to 10° below normal. Precipitation none to 0.50 in., mostly northeast quarter.

Winter wheat mostly good. Livestock good to fair.

**INDIANA:** Temperatures 3 to 80° below normal north, 2 to 50° below normal south. Precipitation light, total 0.10 to 0.33 in.

Outside activities limited by snow cover early period. Rains accompanied by higher temperatures brought muddy field conditions later week. Activities included mending fences, doing shop work, hauling manure, caring for livestock, usual chores. Wheat gradually greening up. Maple syrup season underway. Open weather this winter allowed more than usual use of stalk pasture; hay supplies more than ample.

**IOWA:** Mild week southwest, west central but colder than normal over snow covered east. By week end snow cover had receded primarily to northeast third of State. Measurable precipitation over eastern counties. Warmest 25th to 26th, Sioux City reported 63° on 25th. Lows to 30° Spencer on 24th.

Farmers busy with general livestock care, grain movement, planning spring fieldwork, other normal winter chores.

**KANSAS:** Little, no precipitation. Temperatures averaged 44 to 47° east and north central, 49 to 51° west and south central; 8 to 9° above normal northeast and east central, 11 to 15° above normal elsewhere.

Soil blowing on bare fields, wheat fields central and western counties from high winds and dry surface. No snow cover exposing wheat to possible freeze damage from changing temperatures. Spring planting oats, barley getting underway. Ideal weather for young livestock.

**KENTUCKY:** Temperatures began near normal, rose well above normal midweek, ended very cold. Average highs generally in 40s between 5 to 10° below normal, lows in 20s, about 5° below normal. Precipitation light ranging from snow north and east to rain west. Precipitation totals ranged from 0.10 to about 0.30 in.

Pastures, fall seeded grains showing green. Soil moisture generally adequate. One more burley sale on March 5th will finish season. Farmers still feeding hay, supplies ample.

**LOUISIANA:** Temperatures averaged 10° below normal to 30° above normal. Temperature extremes 20°; 87°. Precipitation, trace.

Days suitable for fieldwork 6.1. Soil moisture 48% short, 48% adequate, 4% surplus. Spring plowing 13% complete, 7% 1985, 13% avg. Corn 2% planted, none 1985, 1% avg. Winter wheat, sugarcane, livestock fair to good; pastures, vegetables fair.

**MARYLAND & DELAWARE:** Maryland: Temperatures averaged 60° below normal over State; lowest temperature -40° Oakland; highest temperature 56° Snow Hill. Precipitation averaged 0.64 in., ranging from a tract to 1.06 in.

Fieldwork no days suitable. Topsoil moisture surplus; subsoil moisture adequate. Small grains good. Farmer's main activities: Cleaning chicken houses, preparing to topdress small grains.

Delaware: Temperatures averaged 70° over State; lowest temperature 180° all stations; highest temperature 53° Georgetown. Precipitation averaged 0.60 in., ranging from 0.26 to 0.89 in.

Fieldwork no days suitable. Topsoil moisture surplus; subsoil moisture adequate. Small grains good. Farmers' main activities: Cleaning chicken houses, preparing to topdress small grains.

**MICHIGAN:** Cold, wet winter week. Temperatures averaged 50° below normal. Several low pressure systems blanketed State with wet heavy snow.

Major farm activities include marketing grain, hauling manure, pruning fruit trees and grape vines. Some corn being harvested. Tapping for maple syrup began. Livestock good. Calving, farrowing continued. Lambing underway. Feed supplies adequate. Snow covered entire State. Small grain, hay fields good.

**MINNESOTA:** Warmer, drier than normal. Temperatures averaged near normal to 8° above normal. Temperature extremes -16°; 48°. Precipitation averaged 0.10 to 0.19 in. below normal. Snow depth weekend averaged from less than 4 to 25 in.

Snow cover plus shallow frost depths prevented nearly all movement in fields except manure spreading, forage hauling.

**MISSISSIPPI:** Average temperatures 20° below normal. Extremes 13°; 85°. Precipitation below normal, greatest 24-hour rainfall 0.10 in.

Fieldwork 5.6 days suitable, 0.9 1985, 1.6 average. Main farm activities; breaking ground, planning. Corn planting 2% completed, less than 1% 1985. Watermelon planting just underway southern part of State. Wheat 10% jointing, 6% 1985; condition fair. Supplies of feed grains, hay adequate. Pasture fair, livestock good to fair.

**MISSOURI:** Weather last week had temperatures near normal, ranging from 3° below normal southeast. Some minor accumulations of snow. Average precipitation less than 0.10 in.

End of February topsoil moisture mostly adequate over all areas. Winter wheat mostly fair to poor. Supply of hay mostly adequate to surplus. General condition of livestock mostly good to fair. Losses of both cattle, hogs nearly normal.

**MONTANA:** Major change in weather first of week, from very cold to warm. Temperatures 7° to 11° above normal west and northeast; 13° to 18° above normal remainder of State. All areas high temperatures 60s. Most low level snow melted rapidly causing some flooding. Precipitation confined to west amounts from 0.25 to 1.00 in.

Winter wheat snow cover disappeared rapidly. Wind damage light to moderate. Condition fair to good. Calving 25% complete, lambing 20%. Hay supplies short. Warm weather helped conserve supplies.

**NEBRASKA:** Mild, dry, scattered light precipitation; traces. Average temperatures 8° to 15° above normal.

Winter wheat 7% poor, 34% fair, 51% good, 8% excellent. Poorest conditions southeast. Moisture received midmonth should boost early spring growth. Concern western areas as wheat coming out of dormancy susceptible to late freezes. Cattle grazing stalks. Hay supplies short Panhandle and north central. Elsewhere, feed grain, hay, forage supplies average or above. Calving, lambing.

**NEVADA:** Heavy rains, flooding ended. High pressure ridge provided warm, sunny afternoons and clear mild nights all areas throughout week. Temperatures averaged well above normal all sections by at least 15°. Several maximum temperature records set end of February with readings commonly in 70s across north, central; 80s to low 90s extreme south.

Mild, drying weather more favorable to newborn calves, lambs. Repairing flood damaged roads, ditches main ranch activity.

**NEW ENGLAND:** Average temperatures generally near normal. Temperatures over northern regions ranged from 15° to 20° over mountain areas to 20° to

25° near coast. Over southern areas, temperatures ranged from mid 20s inland to near 30° along coast. Precipitation (rainfall and melted water equivalent of snowfall) averaged 0.10 in. or less over northern areas. Precipitation over southern areas averaged near zero.

Sugarmaking underway most areas; good season thus far. Farmers tending to livestock, winter chores.

**NEW JERSEY:** Temperatures much below normal, averaging 26° north, 28° south, 30° coast. Extremes 6°; 48°. Precipitation much below normal, averaging 0.03 in. north, 0.06 in. south, 0.11 in. coastal. Heaviest 24-hour total 0.15 in. 24th, 25th. Heaviest 24-hour snowfall 1 in. 26th, 27th. Depth of snow on ground 3rd, 2 in. extreme northern areas of State.

Some fertilizer, lime spreaded. Farmers caring for livestock, tending to winter chores.

**NEW MEXICO:** Average weekly temperatures more than 10° above normal. Temperature extremes 11° northwestern plateau and western mountains, to 87° southeastern Plains. Few hundredths of an inch of rain over southern areas.

Days suitable for fieldwork 6.6. Soil moisture 35% short, 65% adequate. Barley 8% poor, 51% fair, 33% good, 8% excellent. Irrigated wheat 8% poor, 51% fair, 33% good, 8% excellent. Dryland wheat 17% poor, 49% fair, 17% good, 17% excellent. Onions 100% good. Lettuce 100% good. Cattle 40% fair, 60% good. Sheep 17% fair, 83% good. Range 33% poor, 60% fair, 7% good.

**NEW YORK:** Temperatures averaged in teens and 20s about 5° to 15° below normal. Extremes 15° below Newcomb, 42° Johnstown. Precipitation also below normal, 0.25 in. or less, leaving a deficit of 0.50 to 0.75 in. most areas.

Farm activities for week included tending livestock, marketing crops from storage, planning for new crop year, routine farm chores.

**NORTH CAROLINA:** Temperatures averaged 3° to 5° below normal, except up to 8° below normal Piedmont Region. Highest reading 73° Elizabethtown, Laurinburg; lowest, 12° Highlands. Precipitation ranged from 0.05 to 0.95 in.

Days suitable for fieldwork 3.0. Soil moisture 2% very short, 17% short, 69% adequate, 12% surplus. Wheat 2% poor, 18% fair, 78% good, 2% excellent. Oats 34% fair, 66% good. Barley 2% poor, 29% fair, 69% good. Rye 28% fair, 72% good. Pasture 16% poor, 37% fair, 47% good. Supplies: Feed grains 3% short, 92% adequate, 5% surplus. Hay and roughage 3% short, 95% adequate, 2% surplus. Activities: Topdressing small grains, preparing and seeding tobacco beds, applying herbicides to Christmas trees, spreading lime, discing and plowing fields, pruning fruit trees, planting trees, tending livestock, cutting firewood, planting Irish potatoes, attending meetings, tax preparation, planting cabbage, machinery repair, other farm maintenance.

**NORTH DAKOTA:** Mild, dry. Warming trend began west beginning of week spreading to east by midweek. Temperatures averaged from 14° above normal northwest to 3° above normal southeast. Temperature extremes ranged 55° south central on 24th; -16° west central 23. Precipitation light; most areas received only a trace. Southeast reported largest amount with 0.12 in.

Fall seeded crops generally good. Average snow depth decreased to 3 in. due to warmer weather. Cows, calves, ewes generally good. Through 2nd, calving 11% completed, lambing 22% compared to 14, 19% respectively, last year. About 50% of State hay supplies short.

**OHIO:** Temperatures 5 to 10° subnormal. Extremes ranged single digits to 40s. Precipitation widespread; water equivalent 0.10 to 0.33 in. Moderate snow midweek melted by 2nd. Soil temperatures 4 in. above freezing. Crops and livestock under no stress.

**OKLAHOMA:** Temperatures averaged 40° above normal east central to 110° above normal Panhandle, southwest. No precipitation.

Topsoil moisture 55% short, 45% adequate. Subsoil moisture 10% short, 90% adequate. Wheat 15% fair, 81% good, 4% excellent. Early February snow followed by warm temperatures enhance wheat growth. Approximately 5% jointing. Weed infestations heavy north central. Some growers delayed late seeding due to government program uncertainty. Row crop seedbed preparation preceding ahead of average. Pastures improving. Cattle marketings average, prices up from preceding week.

**OREGON:** Temperatures extremely above normal all locations across State. Coast, western valleys averaged 120° above normal. Eastern areas averaged 140° above normal. Extreme northeast 210° above normal. Precipitation heaviest along coast, northeast 2.00 in. or more recorded. Astoria received nearly 5.00 in., LaGrande 2.50 in.

Soil moisture mostly surplus. Eastern fields started to green-up. Some herbicide sprayed on alfalfa. Western fields growing well. Grass seed some winter damage. Pasture growth west also started. Many pastures newly seeded last fall will be reseeded if weather allows. Calving started latest east locales. Hay stocks very short.

**PENNSYLVANIA:** Cold, dry. State average temperatures 230; 60° below normal. Average precipitation 0.06 in., 0.61 in. below normal.

Activities: Caring for livestock, spreading manure, normal winter chores.

**PUERTO RICO:** Island average rainfall 0.11 in., 0.43 in. below normal. Highest weekly total 0.43 in. Highest 24-hour total 0.43 in. Temperatures averaged about 74 to 76° on coasts, 64 to 72° interior divisions. Mean station temperatures ranged from 63 to 76°. Extremes 54°; 90°. Total rainfall 0.01 in., minus 0.48 in.

**SOUTH CAROLINA:** Temperatures averaged slightly below normal for first time in several weeks. Rainfall varied from traces western part of State to 0.50 in. or more near south coast.

Tobacco beds good condition. Topdressing continued to be applied on small grains. Land preparations continued with soil getting dry many areas. Prospects continue to look good for peaches with little cold weather damage thus far.

**SOUTH DAKOTA:** Average temperatures ranged 2 to 180° above normal. Extremes -100; 69°. Very little measurable precipitation reported. Snow depths averaged 6 in. north central, northeast.

Livestock fair to good. Calving, lambing underway. Winter wheat good; minimal snow cover. Major agricultural activities include caring for livestock, attending farm meetings.

**TENNESSEE:** Temperatures averaged slightly below normal west; 60° below normal east. Extremes 140° middle on 2nd; 750° west on 26th. Precipitation received primarily east. West has to date deficiency of 6.00 in., having only received 3.00 in. of precipitation since Jan 1.

**TEXAS:** Another week warm, dry weather. Sunshine helped push afternoon readings into 90s south, 80s elsewhere through 27th. Cool air filtered eastern

half State briefly late week, freeze from Red River into Brazos Valley on 28th. Temperatures recovered quickly back to warm readings weekend with aid of southerly winds. Upper level disturbance over Arizona, New Mexico brought few sprinkles to Trans-Pecos late 2nd. Rainfall below normal. Temperatures warmer than usual.

Crops: Wheat 10% poor, 34% fair, 50% good, 6% excellent. Small grains continued good progress statewide under milder conditions. Plains some spraying for insects. Good rain would increase growth. Early stands jointing Blacklands. Growth good, but rain would help. Rust increasing some varieties. Topdressing some fields East. Leaf rust increasing central, south. Growth good, wheat good color. Additional moisture benefit conditions. Corn 15% planted, 1% 1985, 3% avg. Grain sorghum 4% planted, 1% 1985, 4% avg. Planting corn active south, east, central, started Blacklands. Grain sorghum planting underway south, central. Early planted fields corn good stands coastal Bend. Land preparation continued other areas with planting not too far away. Moisture conditions fair to good, would improve with additional rain.

**Commerical Vegetables:** Rio Grande Valley harvest continued cabbage, carrots, other greens. Onions maturing well. Melons showing good progress. Blooming citrus trees increasing. San Antonio-Winter Garden hot temperatures most week hurt quality most vegetables. Cooler temperatures later week should improve quality. Harvest all vegetable continued. Onions good progress. East land preparation sweetpotato planting continued. Planting spring vegetables underway. High Plains, land preparation continued. Limited transplanting onions, planting other vegetables underway. Trans-Pecos land preparation cantaloups, chilies underway. Transplanting onions continued. Irrigation vegetables necessary because dry conditions. Blooming peach trees increased east, south with warm temperatures. Many other areas follow next week should warm temperatures hold out. Spraying Blacklands. Cooler temperatures late last week may have hurt some blooming trees.

**Range and Livestock:** Range, pasture conditions improved with warmer weather; windy conditions depleted soil of needed moisture. Greening increased despite drier conditions. Small grain pastures slow regrowth because lack of moisture. Most pastures fair to good grazing. Livestock conditions holding steady because improved forage. Hornfiles increased untreated herds. Gains good on small grain pastures.

**UTAH:** Generally dry except light precipitation along Wasatch front (north central division), light to heavy over northern mountains. Temperatures well above normal, especially northern half. Maximums averaged 160° above normal, ranging 6 to 210° above. Minimums averaged 110° above normal; ranging 5 to 190° above.

Warm weather brought cherries, apricots to bloom stage south while buds began to swell northern areas. Damage to fruits feared as warm temperatures bringing them out of dormancy early. Some fieldwork beginning. Pastures, fall seeded grains greening. Livestock good shape.

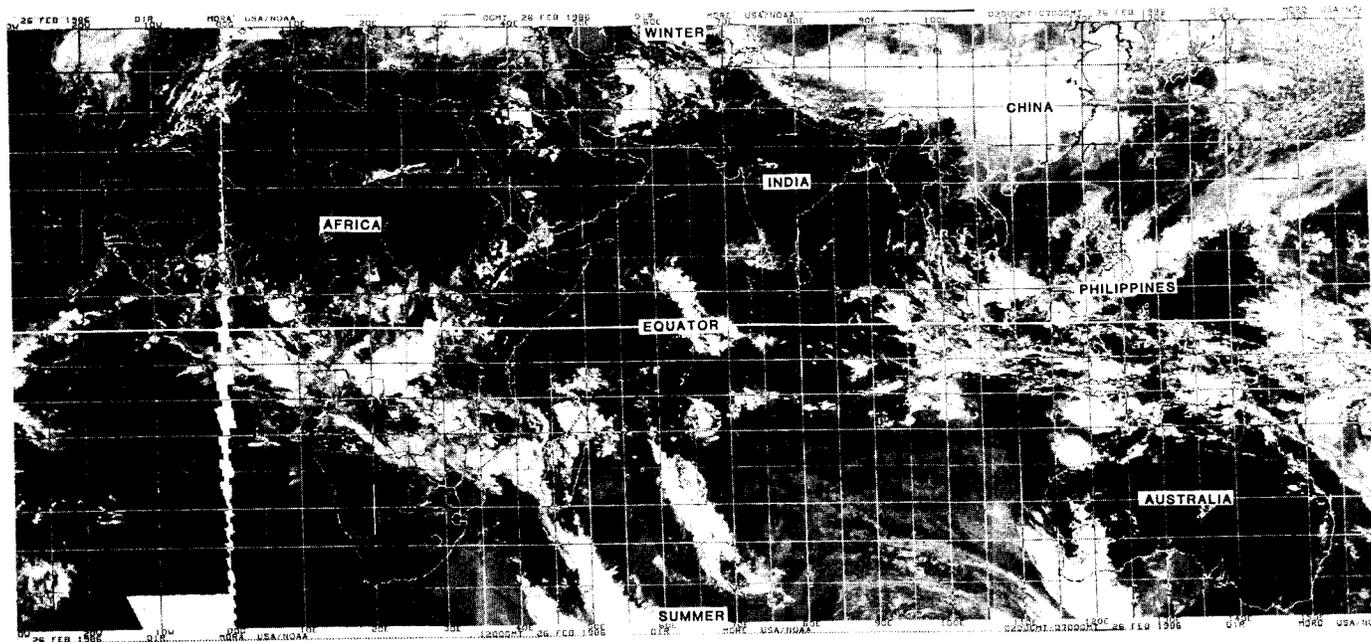
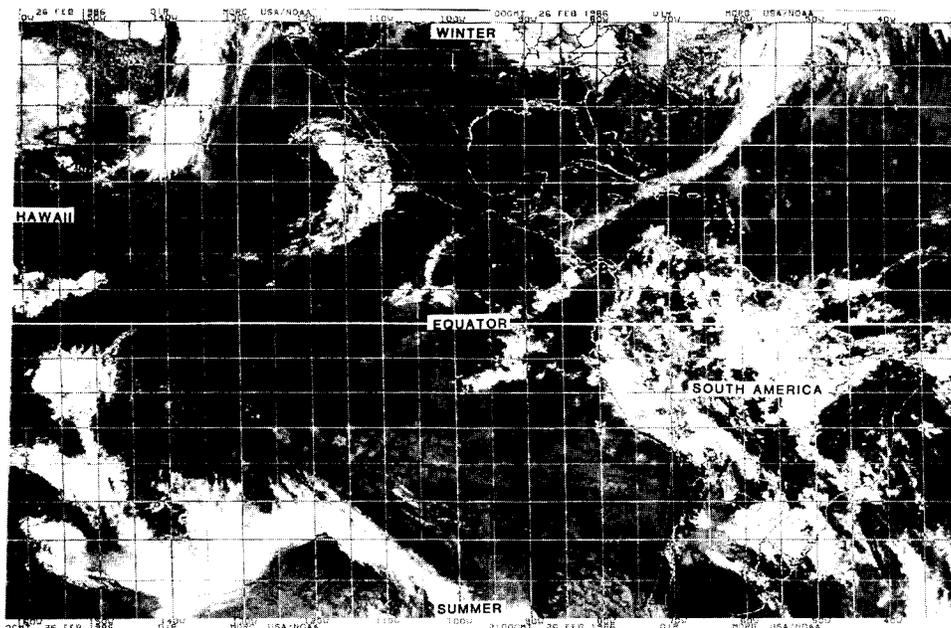
**VIRGINIA:** Cloudy with outbreaks of light rain, snow. Precipitation averaged 0.67 in. with rain, snow south and east; mostly snow north and west. Temperatures averaged 60° below normal range 110 to 720.

More cloudy, damp weather restricted days suitable for fieldwork to 0.7. Topsoil moisture 26% adequate, 74% surplus. Small grain topdressing delayed somewhat by wet land. Small grains good to excellent. Most farm work limited

(Continued to back cover)

# GLOBAL WEATHER SATELLITE IMAGE

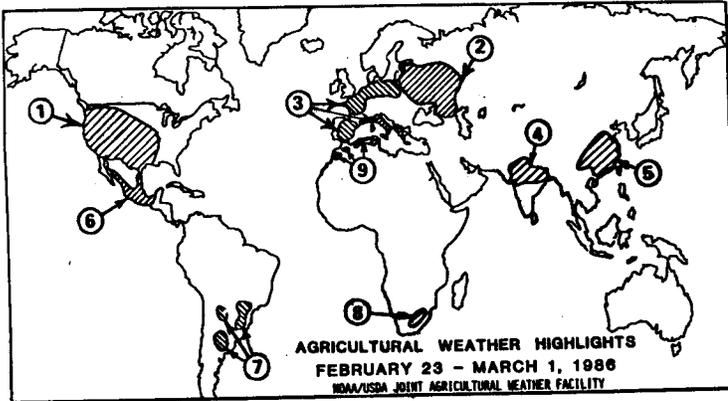
February 26, 1986



International Weather and Crop Summary

February 23-March 1, 1986

FEBRUARY 1986  
MONTHLY DATA FROM SELECTED FOREIGN CITIES  
CLIMATE ANALYSIS CENTER-NMC-NWS-NOAA  
\*\*\* = DATA NOT AVAILABLE

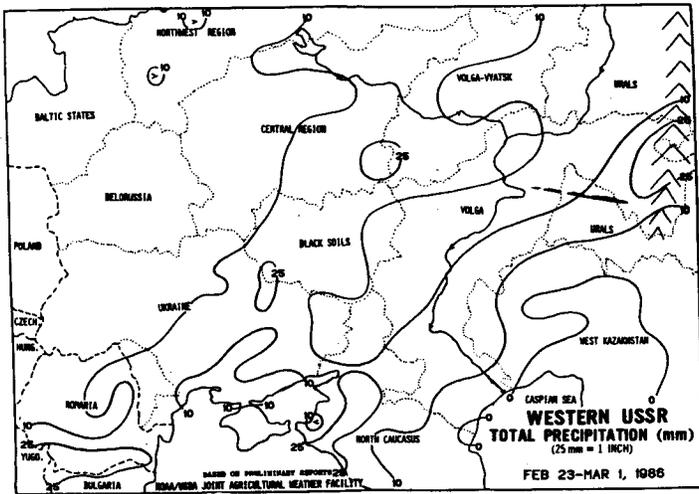


HIGHLIGHTS:

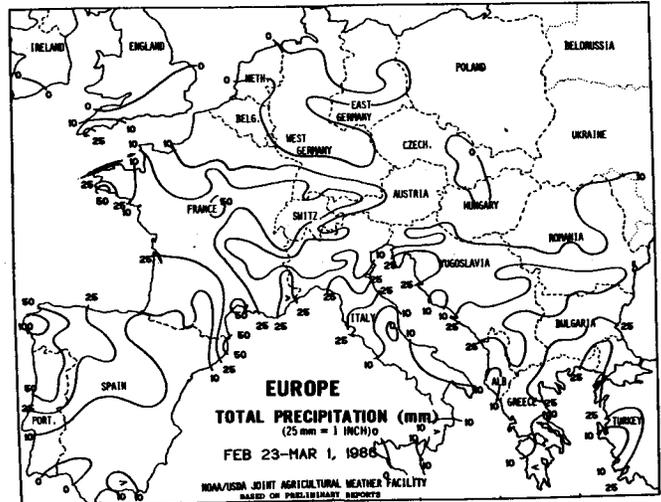
1. **UNITED STATES** ... Unusually warm weather melts snow and speeds growth in the western half of the Nation. Freezing temperatures reach into Florida but damage is minimal.
2. **WESTERN U.S.S.R.** ... Snow protects winter grains from bitter cold.
3. **EUROPE** ... Unseasonable cold, dry weather continues to cover northern winter grains. Showers in Mediterranean crop areas continue to benefit winter grains in the vegetative stage.
4. **SOUTH ASIA** ... Dry, relatively cool weather covers the northern wheat belt where moisture is adequate.
5. **EASTERN ASIA** ... Below-normal temperatures may be slowing early rice planting, but moisture supplies continue to improve.
6. **MEXICO** ... Dry, mild weather promotes wheat growth and planting of cotton and vegetables in the north. Light showers fall in the south.
7. **SOUTH AMERICA** ... Heavy rain falls over Brazil's southern soybean area, slowing early harvesting but generally helping the very late crop. Showers occur over Argentina where crops are maturing.
8. **SOUTH AFRICA** ... Relatively dry weather limits moisture for late-planted corn in the filling stage.
9. **NORTHWESTERN AFRICA** ... Showers in Morocco continue to benefit winter grains in the vegetative stage. Dry weather covers crop areas in Algeria and Tunisia.

COUNTRY CITY	TEMPERATURE (C)					PRECIPITATION (MM)		
	AVG	AVG	HI	LO	DPART	TOTAL	DPART	
	MAX	MIN	MAX	MIN	F/NRM			
NORWAY OSLO	-7	-17	0	-30	-12	-4.2	4.5	-42.4
SWEDEN STOCKHOLM	-5	-13	3	-22	-9	-5.8	13.3	-15.7
FINLND HELSINKI	-7	-16	0	-27	-12	-4.9	6.9	-27.0
U KING GLASGOW	3	-2	6	-13	0	-3.8	6.4	-81.7
EDINBURGH	2	-2	5	-11	0	-3.2	25.0	-16.1
BIRMINGHAM	1	-4	4	-11	-2	-5.1	10.7	-37.9
LONDON	1	-3	4	-14	-1	-5.1	17.8	-34.9
IRELND DUBLIN	4	0	6	-5	2	-3.1	10.5	-40.7
ICELND REYKJAVIK	4	0	8	-6	2	1.6	58.3	-12.8
DENMRK COPENHAGEN	-2	-7	4	-13	-5	-4.6	0.1	-39.0
LUXEMB LUXEMBOURG	-2	-8	2	-14	-5	-6.4	6.0	-54.0
SWITZL ZURICH	-3	-7	4	-15	-5	-5.7	53.3	-26.5
GENEVA	0	-3	6	-11	-2	-3.9	52.5	-27.6
FRANCE PARIS	1	-5	6	-12	-2	-5.9	9.4	-36.4
STRASBOURG	-2	-8	2	-20	-5	-7.4	35.1	-0.3
BOURGES	2	-4	11	-13	-1	-5.2	80.0	22.1
BORDEAUX	7	0	15	-9	4	-2.7	73.6	-12.5
TOULOUSE	7	1	15	-9	4	-2.0	46.1	-6.1
MARSEILLE	9	1	15	-9	5	-2.5	75.2	20.1
SPAIN VALLADOLID	8	2	15	-4	6	0.2	67.7	31.2
MADRID	10	2	16	-6	6	-0.3	55.7	5.3
SEVILLE	16	8	21	1	12	0.1	78.6	-4.5
E GRMY LEIPZIG	-5	-12	4	-22	-8	-8.4	10.3	-21.0
DRESDEN	-5	-11	4	-23	-8	-7.2	25.0	-11.0
W GRMY HAMBURG	-2	-8	2	-18	-5	-5.5	8.9	-31.3
BERLIN	-3	-9	4	-17	-6	-6.8	9.6	-23.5
DUSSELDORF	-1	-8	5	-15	-4	-6.6	5.6	-47.5
STUTTGART	-3	-9	3	-20	-6	-6.9	22.9	-23.9
NURNBERG	-2	-9	7	-18	-6	-6.1	10.1	-29.6
MUNICH	-4	-11	9	-23	-7	-7.0	22.7	-31.8
AUSTRI VIENNA	-3	-8	4	-18	-6	-6.1	72.6	42.6
INNSBRUCK	2	-8	9	-17	-3	-3.4	29.4	-11.4
CZECH PRAGUE	-4	-11	6	-22	-8	-6.5	13.4	-7.5
POLAND WARSAW	-6	-14	-3	-23	-10	-7.6	7.4	-17.2
LODZ	-6	-13	0	-21	-9	-7.3	15.4	-15.6
KATOWICE	-4	-11	2	-23	-8	-5.8	13.4	-22.7
PRZEMYSL	-5	-10	1	-22	-8	-5.8	19.8	-11.9
HUNGAR BUDAPEST	0	-5	7	-14	-3	-3.4	40.6	8.8
YUGOSL SARAJEVO	2	-4	14	-14	-1	0.6	169.0	103.0
ROMANI BUCHAREST	0	-4	11	-15	-2	-1.9	111.6	74.2
BULGAR SOFIA	2	-3	13	-15	0	-2.0	50.7	12.6
ITALY MILAN	4	-1	10	-5	2	-2.1	71.6	4.9
VERONA	4	0	10	-6	2	-2.4	88.8	38.2
VENICE	5	0	13	-6	2	-2.7	82.0	24.7
GENOA	8	3	17	-4	5	-3.4	65.8	-25.1
ROME	12	4	17	-1	8	-1.0	170.2	100.7
NAPLES	12	5	18	-2	8	-0.4	235.0	141.2
GREECE THESSALONIKA	10	4	17	-1	7	0.1	171.8	134.7
LARISSA	11	3	20	-3	7	0.0	71.8	33.7
ATHENS	14	9	18	5	11	0.2	48.8	12.8
TURKEY ISTANBUL	9	4	16	-3	6	0.9	101.7	31.7
ANKARA	7	-1	14	-10	3	1.9	52.5	22.5
CYPRUS LARNACA	18	8	21	5	13	1.1	31.3	-29.7
USSR TALLINN	-7	-14	-1	-21	-10	-4.2	5.6	-19.2
LENINGRAD	-8	-14	-1	-23	-11	-3.7	17.7	-13.5
KAUNAS	-8	-14	-1	-23	-11	-6.6	9.9	-21.3
MINSK	-9	-16	-5	-23	-13	-6.3	25.3	-6.6
KAZAN	-12	-20	-6	-31	-16	-3.4	42.5	17.8
MOSCOW	-9	-17	-4	-24	-13	-5.1	30.2	-5.9
SVERDLOVSK	-12	-20	-4	-30	-16	-2.7	36.1	16.1
OMSK	-14	-23	-3	-31	-19	-1.1	4.7	-6.8
KUSTANAY	-12	-20	0	-32	-16	0.1	11.6	-1.0
KRASNOYARSK	-8	-19	6	-31	-14	2.0	7.0	-5.6
NOVOSIBIRSK	-13	-19	1	-29	-16	1.8	6.7	-8.5
BARNAUL	-12	-20	0	-29	-16	0.0	4.6	-17.4
KHABAROVSK	-11	-21	-3	-31	-16	1.1	25.6	14.9
VLADIVOSTOK	-6	-12	0	-20	-9	1.9	3.9	-15.8
KIEV	-6	-13	2	-24	-10	-5.1	27.3	-17.1
LVOV	-5	-11	1	-26	-8	-4.4	32.6	-13.6
KIROVOGRAD	-6	-13	2	-22	-9	-4.6	43.0	12.6

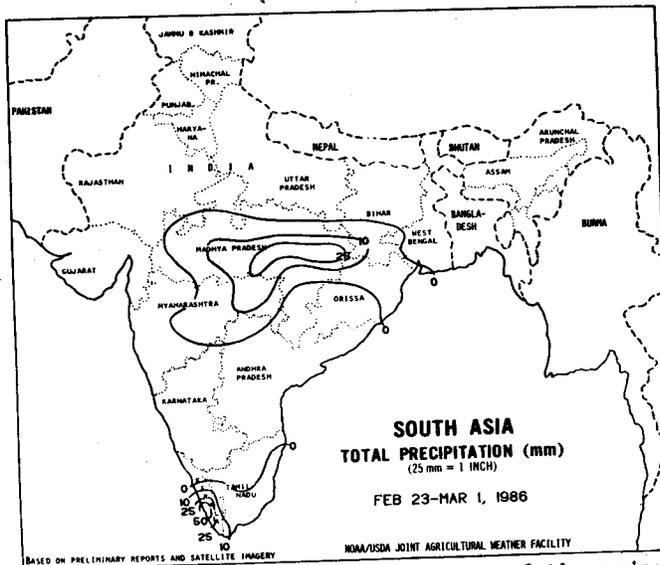
COUNTRY CITY	TEMPERATURE (C)								PRECIPITATION (MM)			COUNTRY CITY	TEMPERATURE (C)								PRECIPITATION (MM)					
	AVG	AVG	HI	LO	DPART	DPART	DPART	DPART	DPART	DPART	DPART		DPART	DPART	DPART	DPART	DPART	DPART	DPART							
	MAX	MIN	MAX	MIN	AVG	F/NRM	TOTAL	F/NRM	MAX	MIN	MAX		MIN	AVG	F/NRM	TOTAL	F/NRM	MAX	MIN	MAX	MIN	AVG	F/NRM	TOTAL	F/NRM	
USSR	ODESSA	-2	-7	5	-18	-4	-3.1	7.3	-33.5				TANZAN	DAR ES SALAAM	34	23	36	20	28	0.8	0.4	-68.7				
	YALTA	5	1	16	-9	3	-1.0	48.8	-11.1				GABON	LIBREVILLE	30	23	32	21	27	-0.3	212.9	-59.0				
	VORONEZH	-10	-20	1	-25	-15	-5.9	33.0	3.4				TOGO	LOME	33	24	34	20	28	0.5	127.0	94.7				
	SARATOV	-11	-17	1	-27	-14	-2.3	37.9	12.9				B FASO	OUAGADOUGOU	37	21	40	18	29	1.1	0.0	-1.9				
	KHARKOV	-6	-13	1	-19	-10	-3.5	26.7	-7.9				IVRY C	ABIDJAN	31	25	32	22	28	0.3	21.0	-37.9				
	VOLGOGRAD	-10	-16	4	-24	-13	-4.3	29.4	1.5				MOZAMB	MAPUTO	30	22	32	18	26	-0.1	108.0	-32.0				
	ROSTOV	-4	-11	8	-18	-8	-3.6	47.6	-17.6				ZAMBIA	KABWE	26	16	30	10	21	0.1	89.3	-116.8				
	ASTRAKHAN	-4	-13	7	-20	-8	-2.9	6.8	-2.8				ZIMBAB	HARARE	26	16	30	13	21	0.6	133.4	-24.3				
	KRASNODAR	2	-6	13	-17	-2	-1.7	129.5	75.0				S AFRI	PRETORIA	29	17	32	15	23	1.5	32.0	-53.7				
	ORENBURG	-11	-19	-1	-33	-15	-1.2	22.6	0.0					KROONSTAD	29	15	33	9	22	-0.1	38.0	-43.0				
	TSELINOGRAD	-12	-22	-1	-35	-17	0.0	17.3	11.0					JOHANNESBURG	25	14	29	11	20	0.9	90.4	-6.0				
	KARAGANDA	-9	-19	1	-31	-14	-0.4	9.8	-7.4					BETHAL	24	13	28	8	19	-0.4	81.7	-17.4				
	TBILISI	5	-2	17	-7	2	-1.4	43.9	20.9					DURBAN	28	21	31	17	25	0.7	34.0	-75.4				
	TASHKENT	10	1	23	-5	6	3.5	4.4	-47.0					CAPE TOWN	27	15	34	10	21	0.8	7.7	-9.1				
	ASHKHABAD	11	1	24	-5	6	1.6	38.9	11.6				CANADA	TORONTO	-3	-9	3	-17	-6	-0.3	30.6	-15.3				
SYRIA	DAMASCUS	17	2	23	-5	9	0.9	24.6	-7.8					MONTREAL	-6	-15	4	-24	-10	-1.2	38.6	-26.7				
ISRAEL	JERUSALEM	15	5	25	1	10	0.1	100.5	-17.3					WINNIPEG	-10	-20	0	-32	-15	0.4	12.5	-4.9				
PAKIST	KARACHI	27	12	32	8	20	-0.9	0.0	-8.6					REGINA	-9	-18	6	-36	-14	-0.5	14.6	-1.5				
INDIA	AMRITSAR	21	6	25	1	13	-1.1	60.0	38.2					SASKATOON	-10	-21	6	-36	-15	-0.5	9.6	-8.4				
	NEW DELHI	22	10	26	7	16	-0.9	50.6	35.9					LETHBRIDGE	-3	-15	18	-37	-9	-3.8	20.5	1.5				
	AHMEDABAD	30	16	34	12	23	0.2	0.0	-1.0					CALGARY	-3	-14	17	-38	-9	-1.6	11.6	-3.9				
	INDORE	28	12	32	1	20	0.0	5.4	3.7					EDMONTON	-7	-16	13	-29	-11	-1.9	8.0	-10.9				
	CALCUTTA	29	17	33	13	23	0.1	2.2	-9.7					VANCOUVER	7	0	18	-11	4	-1.0	127.8	13.1				
	VERAVAL	29	16	35	14	23	0.3	0.0	-1.5				MEXICO	GUADALAJARA	27	5	32	-2	16	-0.5	2.0	-4.8				
	BOMBAY	30	19	34	16	25	0.2	0.0	-0.9					MEXICO CITY	23	8	27	1	15	1.5	0.1	-6.0				
	POONA	31	13	35	5	22	-0.5	0.0	0.0					ACAPULCO	31	21	33	17	26	-0.6	0.0	0.0				
	BEGAMPET	31	19	33	17	25	0.4	9.1	4.2					BERMUD	ST. GEORGES	21	16	24	11	18	0.8	112.5	5.1			
	MADRAS	29	22	32	18	26	-0.3	54.0	50.3					BAHAMA	NASSAU	26	17	29	10	22	0.7	10.1	-31.2			
	MANGALORE	32	22	34	18	27	-0.1	0.0	-2.0					CUBA	HAVANA	**	**	**	**	**	**	0.0	-52.3			
H KONG	HONG KONG	17	13	23	6	15	-0.9	70.9	29.1					JAMAIC	KINGSTON	30	21	32	19	26	0.0	2.3	-18.0			
N KREA	PYONGYANG	-3	-14	2	-24	-9	-3.4	5.0	-5.9					P RICO	SAN JUAN	29	20	31	18	24	-0.4	29.2	-22.1			
S KREA	SEOUL	1	-6	5	-13	-3	-1.0	12.1	-9.0					GUADEL	RAIZET	28	19	30	17	23	-0.3	32.6	-16.1			
JAPAN	SAPPORO	-2	-9	3	-14	-6	-1.3	64.0	-27.9					MARTNQ	LAMENTIN	29	20	30	17	25	0.8	14.2	-73.7			
	NAGOYA	7	-1	12	-4	3	-1.2	30.2	-31.1					BARBAD	BRIDGETOWN	28	21	29	18	25	-0.9	13.4	-34.4			
	TOKYO	8	1	15	-2	4	-1.0	28.0	-35.4					TRINID	PORT OF SPAIN	30	21	31	19	25	0.6	5.9	-41.8			
	YOKOHAMA	8	1	13	-2	4	-1.2	40.5	-31.3					COLOMB	BOGOTA	19	7	21	2	13	0.0	115.1	77.3			
	KYOTO	7	-1	12	-3	3	-1.5	35.9	-31.4					VENEZU	CARACAS	29	21	30	19	25	0.6	3.0	-35.9			
	OSAKA	8	1	11	-2	4	-1.7	14.0	-45.5					F GUIA	CAYENNE	30	23	31	21	27	1.1	124.8	-242.8			
THAILN	PHETCHABUN	35	20	38	17	27	1.6	0.1	-25.6				BRAZIL	FORTALEZA	29	23	31	21	26	-1.1	323.4	97.8				
	BANGKOK	32	24	36	20	28	0.0	6.0	-19.3					RECIFE	30	22	32	21	26	-0.9	213.2	106.6				
MALAYS	KUALA LUMPUR	32	22	34	20	27	0.4	80.1	-77.1					BELO HORIZONTE	29	19	31	17	24	1.0	99.6	-116.8				
VIETNM	HANOI	18	14	27	8	16	-1.0	125.8	97.9					CAMPO GRANDE	30	21	34	19	25	1.1	282.2	83.3				
CHINA	HARBIN	-8	-21	-3	-33	-14	1.3	5.4	0.5					FRANCA	27	19	30	17	23	1.2	225.9	5.9				
	HAMI	4	-10	10	-15	-3	2.6	0.0	0.0					RIO DE JANEIRO	31	25	36	23	28	1.3	24.6	-126.5				
	LANCHOW	6	-6	14	-12	0	2.1	0.0	-2.3					LONDRINA	30	20	34	17	25	1.2	179.0	-22.8				
	BEIJING	4	-7	14	-13	-1	0.7	3.0	-4.4					SANTA MARIA	31	20	38	13	25	0.9	160.0	19.0				
	TIENTSIN	4	-5	12	-11	-1	0.6	2.5	-3.6					PORTO ALEGRE	31	22	37	17	27	2.0	118.7	14.8				
	LHASA	9	-7	15	-13	1	-0.2	0.1	-3.3				PERU	LIMA	27	20	30	18	23	1.1	1.3	1.3				
	KUNMING	18	3	21	-1	10	1.0	0.0	-11.3					BOLIVI	LA PAZ	12	4	15	2	8	-1.0	99.5	-4.7			
	CHENGCHOW	8	-4	16	-10	2	-0.4	0.2	-12.3					CHILE	SANTIAGO	29	12	33	8	20	0.4	0.0	0.0			
	YEHCHANG	11	3	19	-1	7	0.9	14.1	-14.0					ARGENT	IGUAZU	30	21	34	18	25	**	157.1	**			
	HANKOW	11	2	19	-3	6	1.5	3.0	-56.2						FORMOSA	33	23	40	18	28	1.0	182.5	46.5			
	CHUNGKING	10	6	17	2	8	-1.5	26.4	6.4						CERES	30	19	37	13	25	-0.4	90.4	-13.6			
	CHIHKIANG	9	3	18	-2	6	0.1	39.1	-9.6						CORDOBA	28	18	36	13	23	0.3	66.1	-44.5			
	SHANGHAI	8	1	16	-5	4	0.1	12.7	-50.0						RIO CUARTO	29	18	35	12	23	1.3	32.8	-53.0			
	NANCHANG	10	4	20	-1	7	0.8	40.5	-54.7						ROSARIO	29	18	34	13	23	0.4	46.0	-62.1			
	TAIPEI	16	13	23	8	14	-0.7	171.7	35.8						BUENOS AIRES	28	18	34	13	23	1.2	22.9	-74.8			
	CANTON	16	11	24	5	14	-0.2	63.7	9.8						SANTA ROSA	28	18	36	11	23	0.8	53.5	-18.6			



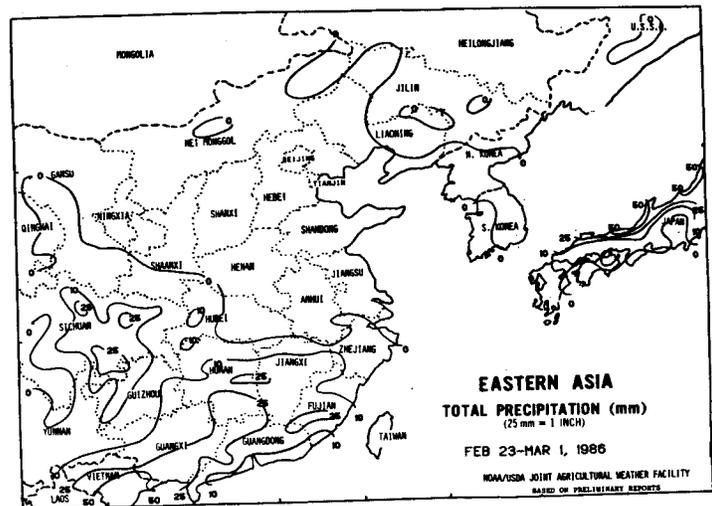
**WESTERN U.S.S.R.** ... Snow cover continued to increase in winter grain areas over the northern two-thirds of the region. In the south, early-week rain changed to snow over the Ukraine and North Caucasus, increasing the snow cover as far south as the Black Sea. Normally, snow cover diminishes in the south during March, as temperatures slowly rise. Unseasonable cold weather covered the region during the week with night temperatures dropping to around -25 degrees C as far south as Krasnodar, North Caucasus. Snow cover likely protected winter grains from potential winterkill.



**EUROPE** ... Cold, dry weather continued across the north. Night lows in West Germany dropped to around -15 degrees C while in Poland lows were around -20 degrees C. Snow cover in these areas was likely adequate to protect winter grains. The storm track continued along the Mediterranean, bringing rain to Spain, southern France, southern Italy, and Greece. The rain in these areas benefited winter grains in the vegetative stage. In southeastern Europe, early-week rain changed to snow in eastern Yugoslavia, Romania, and Bulgaria. Locally heavy snowfall amounts occurred over southern Romania. Weekly temperatures over the region were much below normal everywhere except along the Mediterranean where temperatures were above normal.



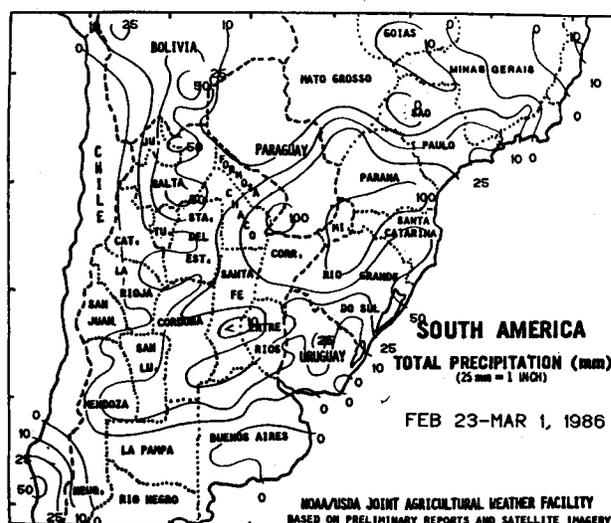
**SOUTH ASIA** ... Dry weather covered the major wheat belt across the north. Moisture supplies are adequate for northern wheat in the grain filling stage. Light to moderate showers (1-39mm) fell in central India, with the heaviest amounts in eastern Madhya Pradesh. The light rain benefited minor wheat areas in western Madhya Pradesh and central Maharashtra. Temperatures averaged cooler than normal in the north, lowering evaporation rates. Light to moderate rain also fell in extreme southern India.



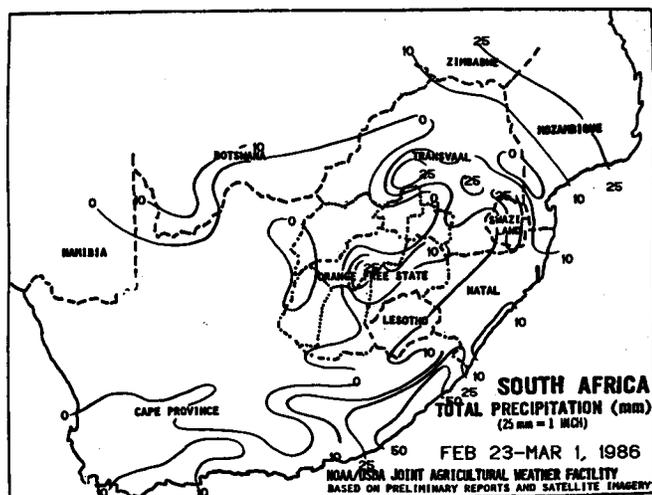
**EASTERN ASIA** ... A seasonal increase in rainfall continued to improve moisture in the rice region. Nearly all areas south of the Yangtze River received light to moderate rain (5 to 45mm). While moisture supplies are increasing, below-normal temperatures may be slowing early-rice planting. Temperatures averaged 2 to 4 degrees C below normal in the south. Dry weather covered the North China. Plain where winter wheat remains dormant. Winter wheat normally begins greening up in early March, but below-normal temperatures are keeping southern wheat dormant.



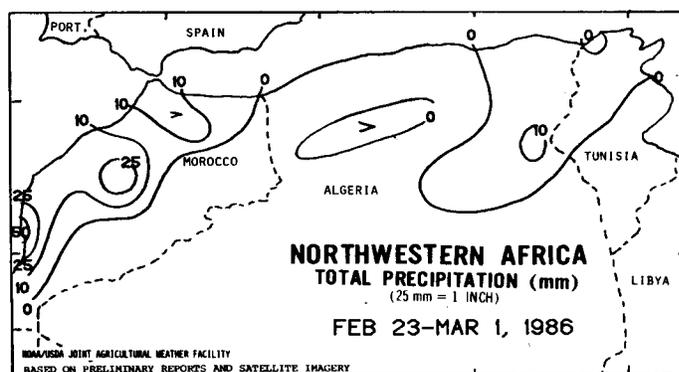
**MEXICO** ... Mild, dry weather continued over northern Mexico. Weekly temperatures averaged about 6 degrees C above normal in northwestern wheat areas and 2 to 3 degrees C above normal across the northeast, where vegetable and cotton planting are underway. The mild weather promoted crop emergence, but irrigation was likely necessary for topsoil moisture. Light showers fell again over southeastern Mexico, but weekly totals were mostly less than 5mm causing minimal interference to agriculture.



**SOUTH AMERICA** ... In Brazil, heavy rain (75 to 167mm) fell over major soybean areas of northwestern Rio Grande do Sul, western Santa Catarina, and southern Parana. Weekly rainfall averaged 30 to 75mm elsewhere in these three states and extended into extreme southern Mato Grosso do Sul. Scattered, light showers fell across northern soybean areas. Improved moisture supplies and seasonal temperatures helped the growth of late developing crops. The wetness delayed harvesting of the drought-affected crops. In Argentina, showers fell over most crop areas, producing 10 to 30mm of weekly rainfall in the primary corn and soybean areas. Very light rain (less than 5mm) fell in central and southern Buenos Aires province. Substantial rain (25 to 60mm) fell in northern cotton areas. Summer crops are maturing in Argentina.



**SOUTH AFRICA** ... A drying trend has developed during the last 3 weeks in the Maize Triangle. Only isolated areas received more than 25mm of rain this week. Most of the corn region received less than 10mm of rain. Temperatures averaged slightly below normal, easing evaporation rates, as a frontal system pushed early-week hot weather out of the region. Early-planted corn is beginning to mature. However, moisture is limited for late-planted corn in the filling stage. Corn's yield potential has likely decreased because precipitation has not kept up with the crop's moisture requirements.



**NORTHWESTERN AFRICA** ... Light showers (10 to 25mm) over Morocco continued to benefit winter grains in the vegetative stage. Winter grain areas in Algeria were dry, but soil moisture was likely adequate to meet crop moisture requirements. In Tunisia, dry weather returned to winter grain areas, and moisture remains limited. Winter grains over the region normally advance through reproduction in late March and April. Timely rains will be needed to maintain favorable yield prospects in Morocco and Algeria, and to improve crop prospects in Tunisia.

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to livestock care, very little fieldwork. Some overseeding of pasture land. Livestock excellent. Feed adequate. Feed use high during recent wet, damp weather. Farm meetings common. Still some uncertainty over planting intentions.

**WASHINGTON:** Cloudy skies with periods of heavy rain early week. Warm, dry second half of week.

Days suitable for fieldwork less than 3.0. Soil moisture 60% good, 40% adequate. Range, pasture 75% short, 25% adequate. Hay supplies 50% short, 50% adequate. Damage to raspberries reported some areas due to low temperatures early week. Calving, lambing still going well.

**WEST VIRGINIA:** Temperatures averaged 7 to 120 below normal. High 500 Williamson and Huntington, low -40 Elkins. Average temperature 26°. Precipitation averaged below normal for all divisions except central. Precipitation

ranged from 0.20 to 0.84 in. Average precipitation 0.52 in.

Days worked 0.5. Soil moisture surplus to adequate. Feed supplies adequate to short.

**WISCONSIN:** Temperatures normal through week, slight warming trend by weekend. Snow 2 to 4 in. northeast two-thirds of State on 25th, scattered light snow throughout State other days. Snow depths 1 in. south to 30 in. north.

Farm work limited to normal activities, waiting for spring thaw.

**WYOMING:** Temperatures much above normal. Most of State dry except few scattered areas.

Winter wheat mostly good, breaking dormancy. Land preparation for spring planting continued as weather permitted. Livestock mostly good. Calving, lambing underway. Shearing starting. Supplemental feeding continued.

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