

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

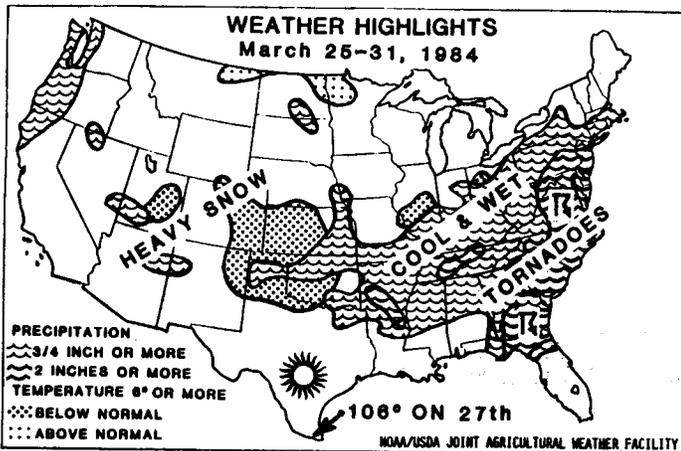
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April 3, 1984

National Weather Summary

March 25 to 31



Midwest, the South, and the East Coast States to Pennsylvania. Moderate to heavy rain was accompanied by thunderstorms and a few tornadoes along a 200-mile wide band from eastern Oklahoma to the Carolinas. Severe weather also occurred in northern Florida and southern Georgia.

WEDNESDAY...Rain fell in the eastern portion of the central Plains, while snow covered parts of the northern Plains. Showers and thunderstorms covered the area from western Tennessee and Kentucky to most of the East Coast States. Severe weather with heavy rain fell through the Ohio Valley and the Mid-Atlantic States. Snow fell in central Pennsylvania and spread northeastward.

THURSDAY...The spring storm moved northeastward and dumped heavy snow from West Virginia to Vermont, and rainshowers along the coast. High wind and heavy surf eroded beaches. A few snowshowers fell over the Plateau and northern Rockies, and another Pacific storm was poised to move into the West.

FRIDAY...Snow and gusty winds lingered over the Northeast and, later, heavy snow fell in parts of Colorado and Wyoming. A storm in New Mexico spread snow over the Rockies and light rain in northern New Mexico and the Texas Panhandle where dry weather had prevailed. Late in the day moderate showers began in northern California.

SATURDAY...The new Pacific storm moved into Nevada and spread showers throughout California and over the central Plateau. Thunderstorms with small hail moved across northern California. Light snow fell in the western portion of the central Plains and light rain reached from Oklahoma through Arkansas.

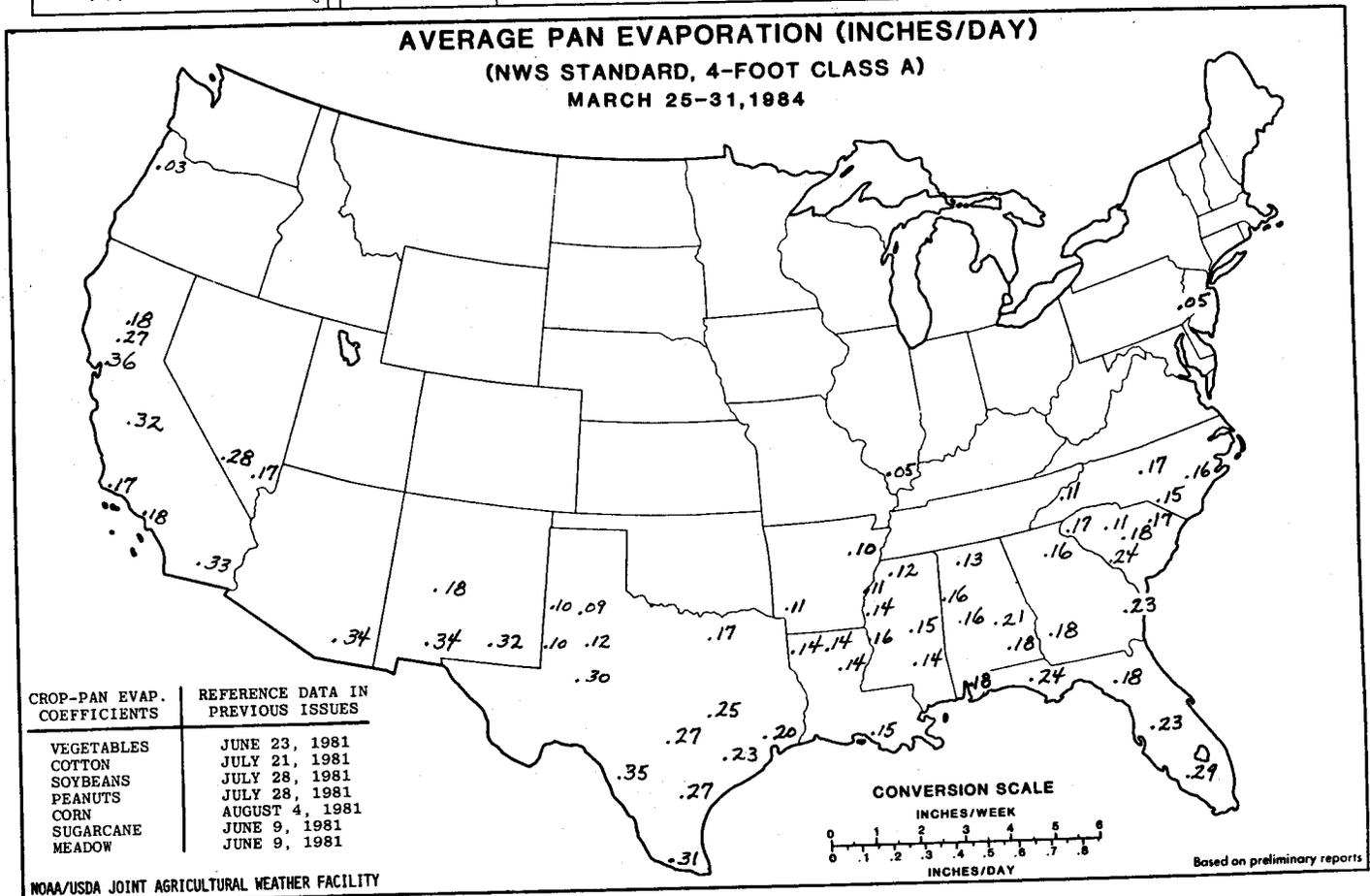
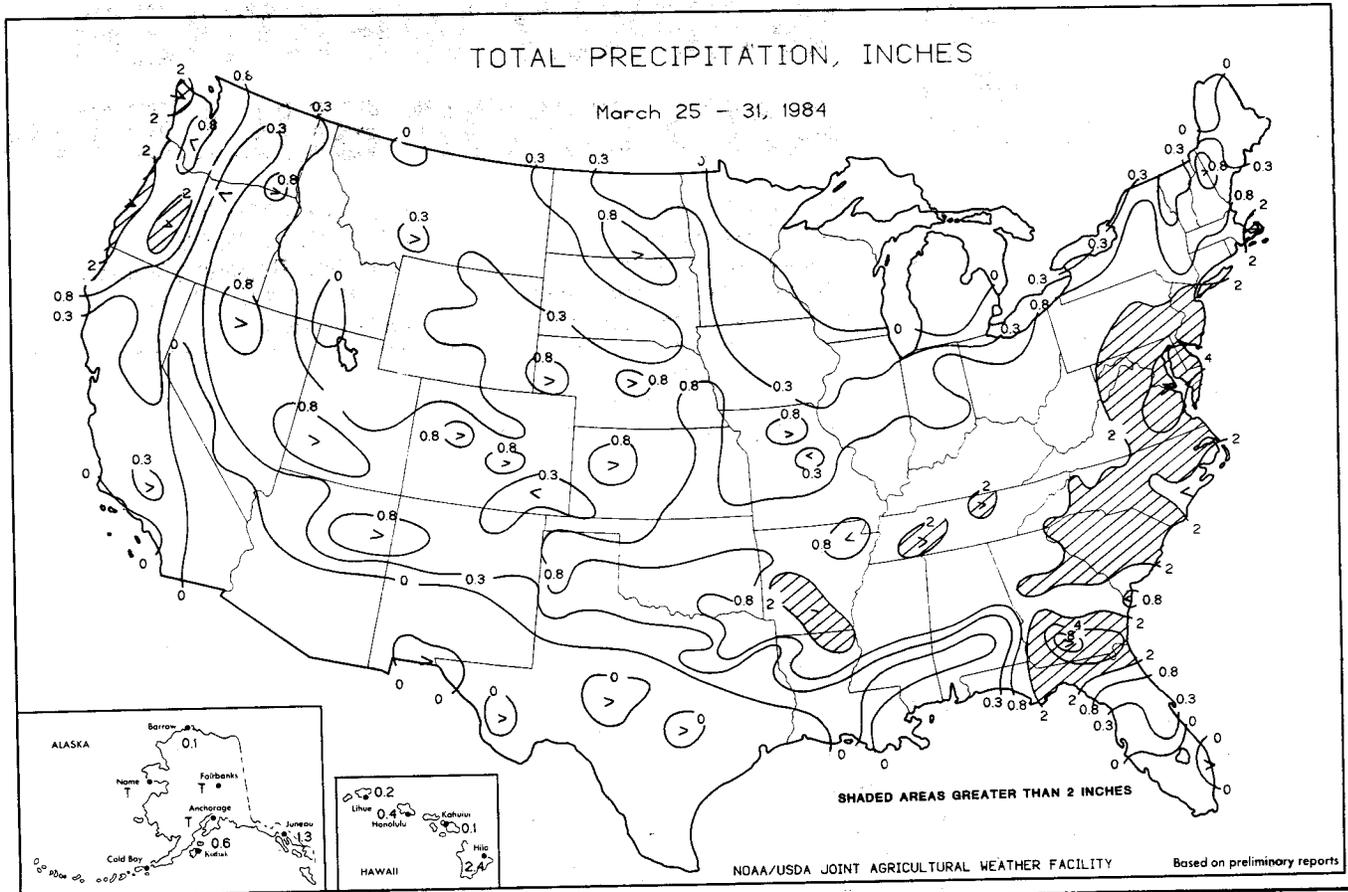
HIGHLIGHTS: Showers and thunderstorms were widespread from eastern Oklahoma and Kansas through the Ohio and Tennessee Valleys to the east coast. Heavy thunderstorms produced downpours of rain from Georgia to New Jersey. Devastating tornadoes roared along a line from northern Georgia to southeastern Virginia. Rain was heavy along the northwest coast but light along the rest of the west coast. Heavy snow fell over the central Plateau and the Rockies. Temperatures were warmer than normal in the Southwest and the north-central States but below normal elsewhere.

SUNDAY...Another Pacific storm spread rain, snow in the mountains, over the Pacific Northwest, while another cold front caused snow in the central Rockies and snow or rainshowers over the central and northern Plains. Showers and thunderstorms continued in the Ohio Valley, the Mid-Atlantic States, and along the Southeast coast. Early morning temperatures dropped below freezing through the Plains to Oklahoma, but the Southeast remained seasonably mild.

MONDAY...Showers were widespread from northern California to Washington, over the Plateau to northern Arizona and New Mexico, and eastward through the Rockies and Plains to the Ohio Valley. Higher elevations recorded heavy snow. Heavy rainshowers were concentrated in southeastern Nebraska and adjacent areas.

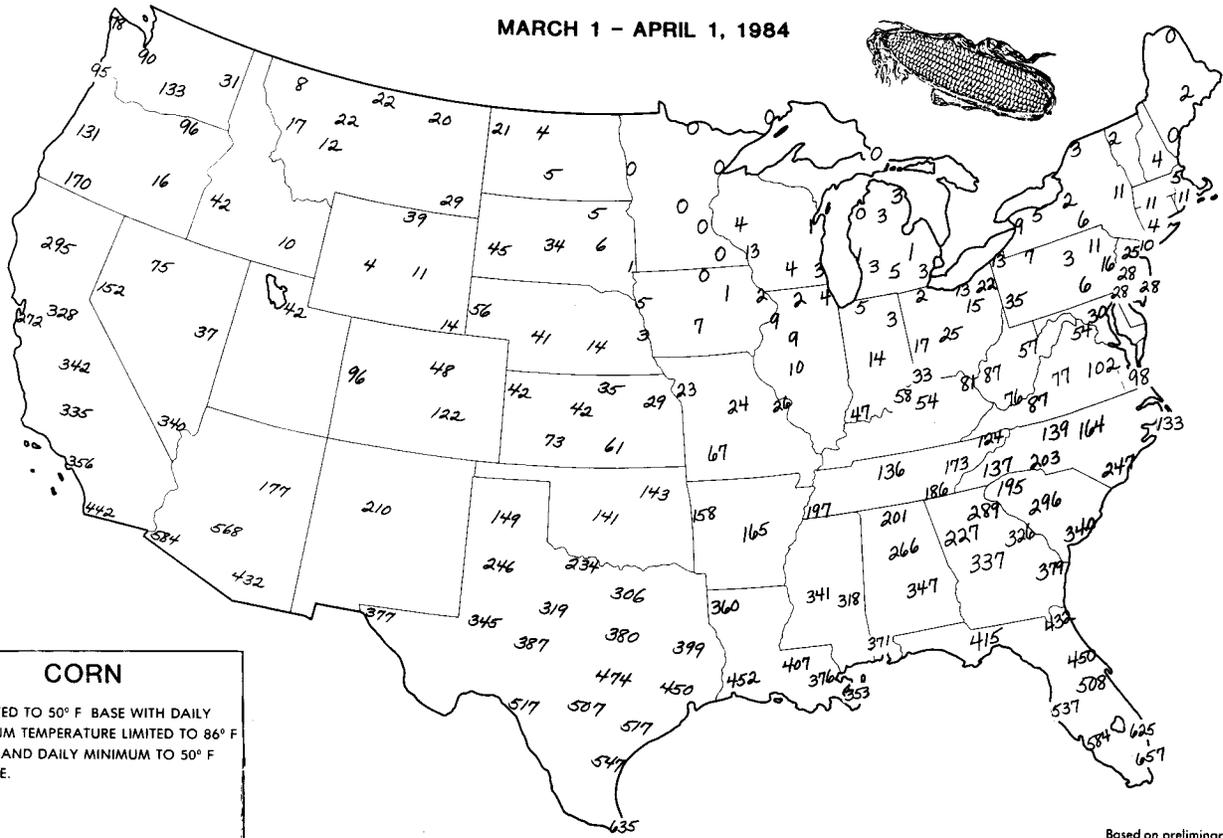
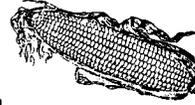
TUESDAY...Light snow fell throughout the Rockies and rain covered the central and northern Plains, the

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TOTAL GROWING DEGREE DAYS (GDD)

MARCH 1 - APRIL 1, 1984



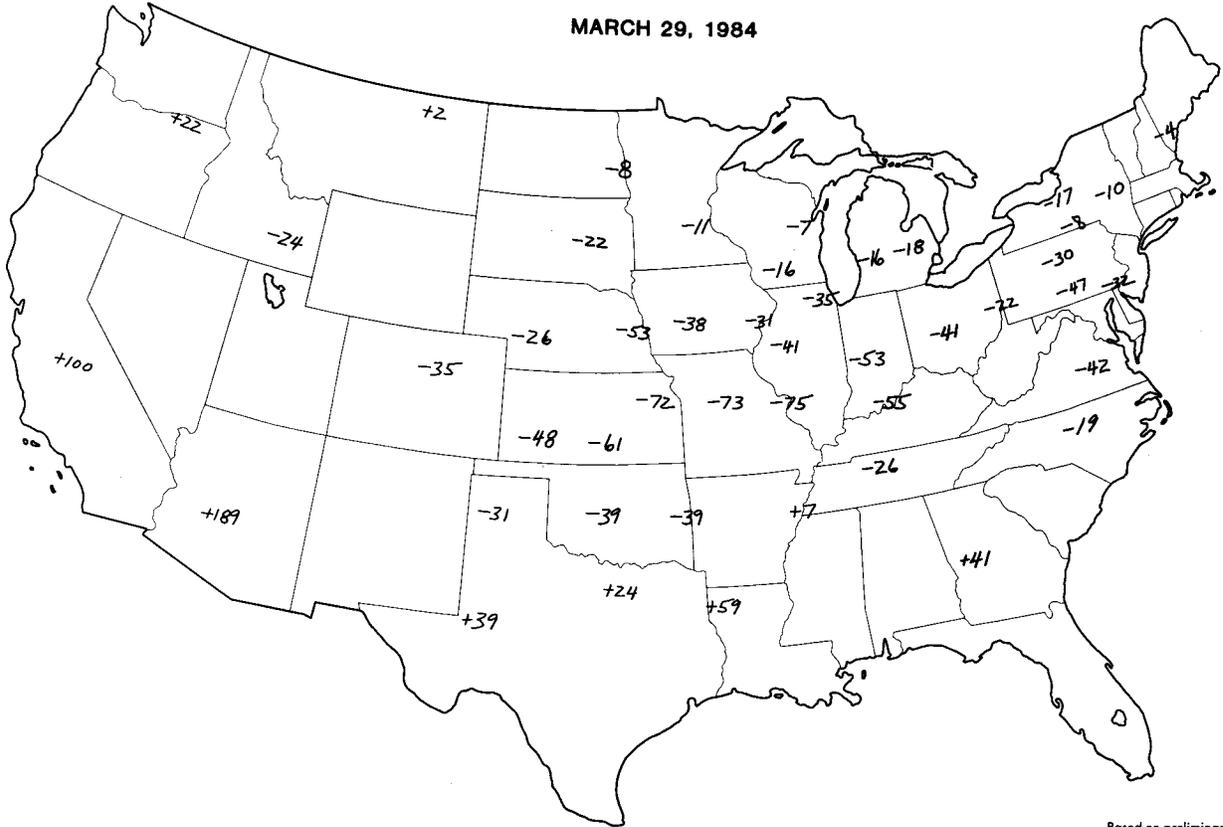
CORN

COMPUTED TO 50° F BASE WITH DAILY MAXIMUM TEMPERATURE LIMITED TO 86° F OR LESS AND DAILY MINIMUM TO 50° F OR MORE.

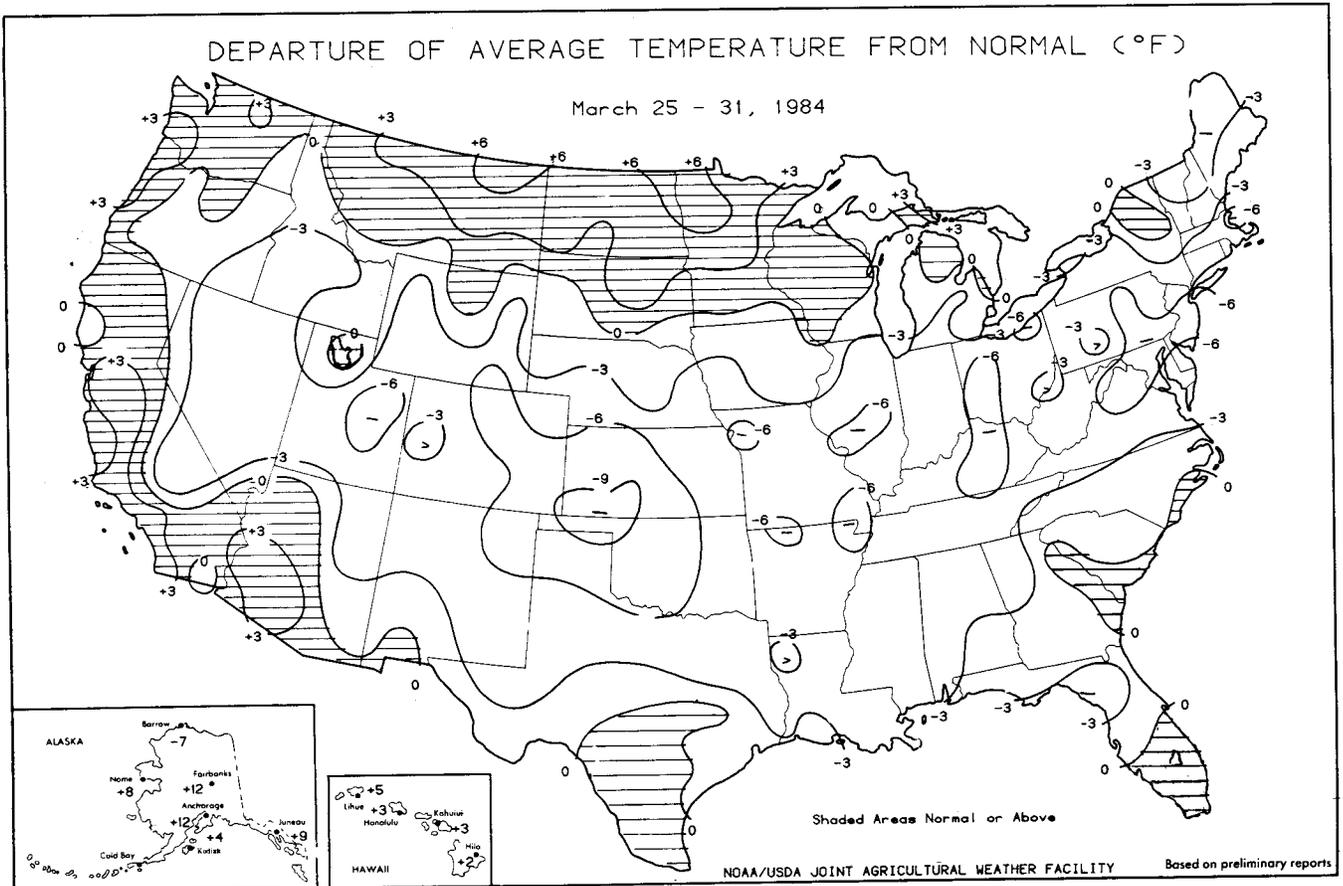
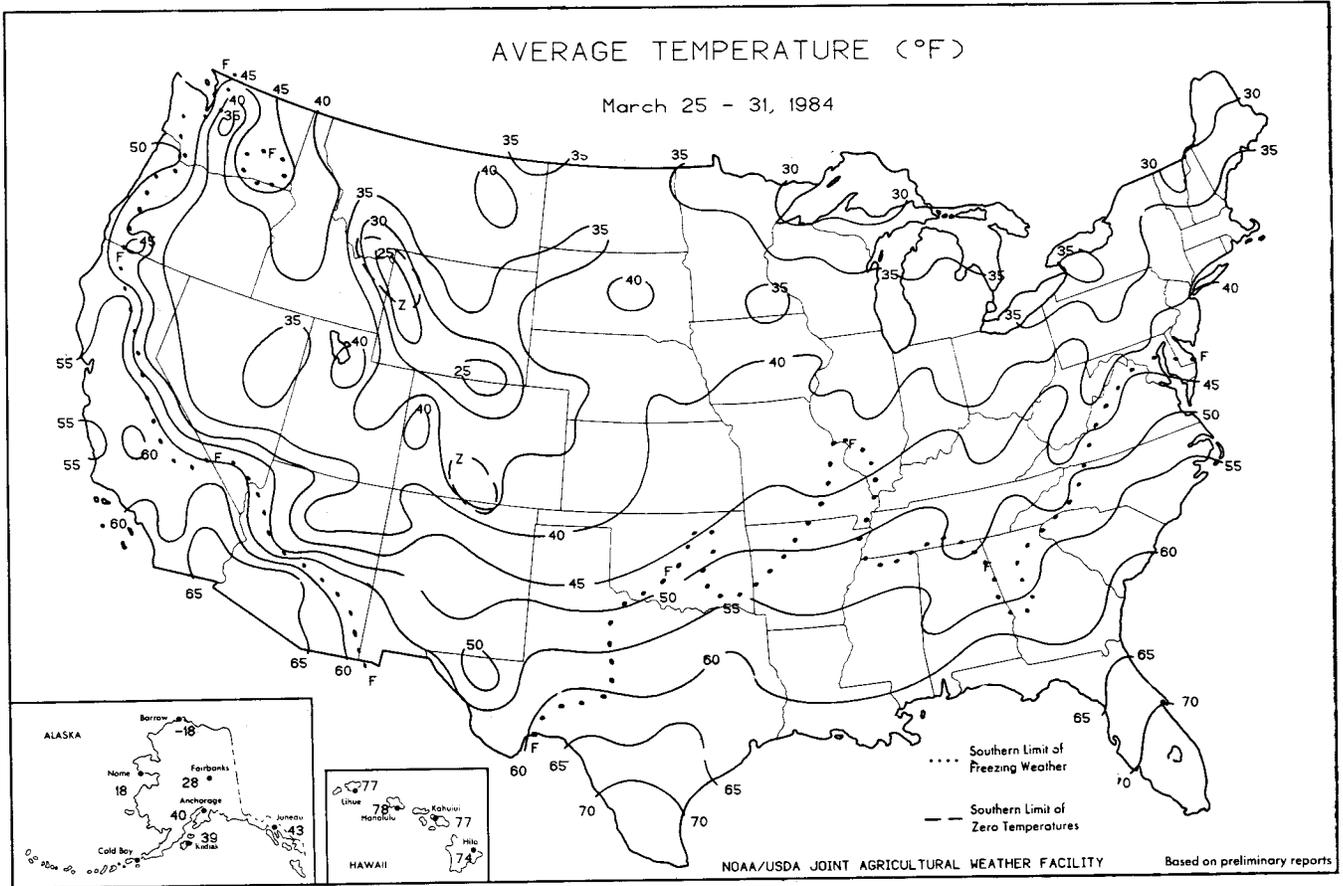
Based on preliminary reports

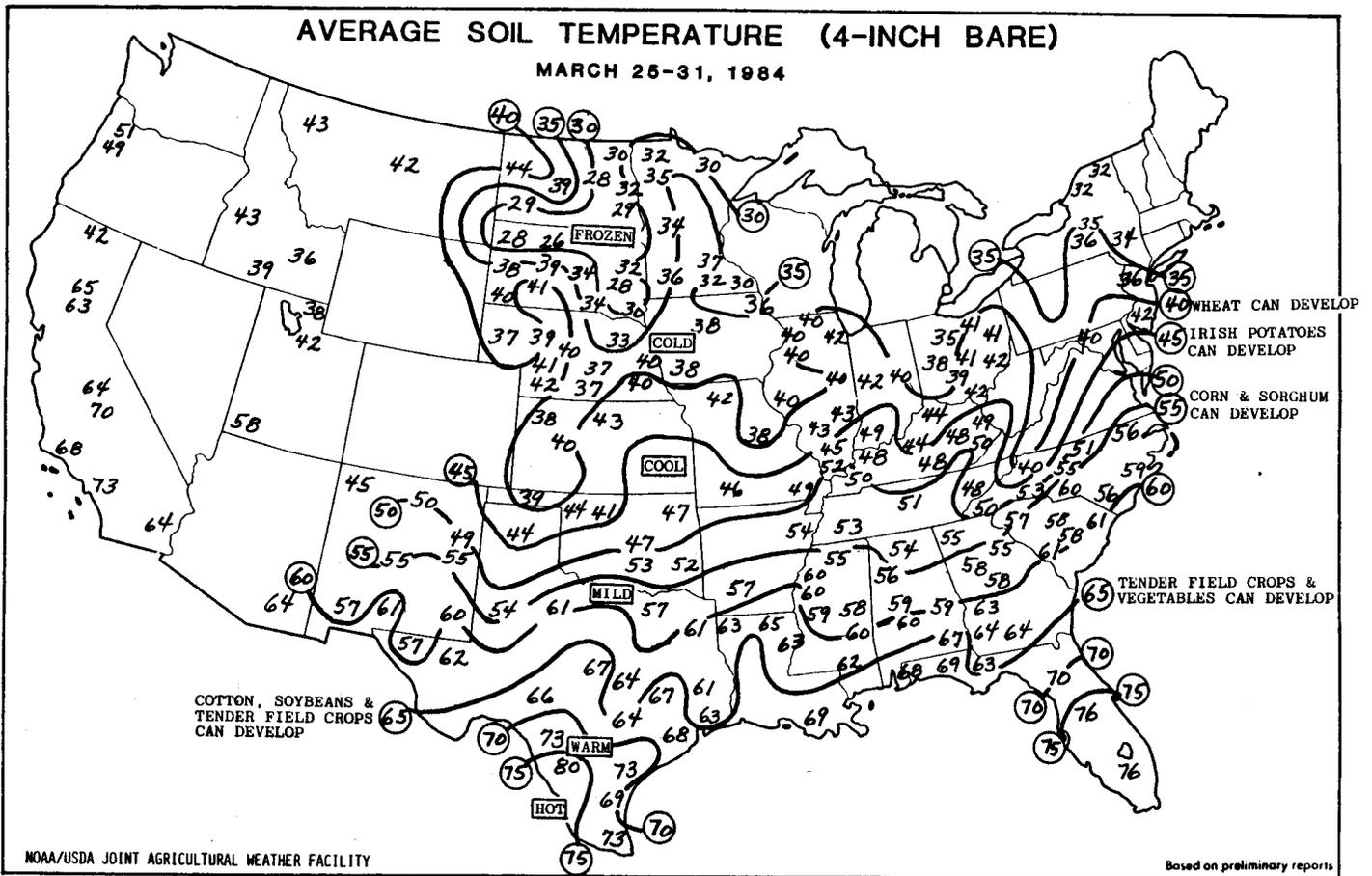
GDD DEPARTURES FROM NORMAL

MARCH 29, 1984



Based on preliminary reports





Weather Data for the Week Ending MARCH 31, 1984

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. 4	PCT. NORMAL SINCE MAR. 4	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	64	42	74	34	53	-5	1.0	-.4	.8	3.7	61	10.0	65	90	44	0	0	2	1		
AL MOBILE	73	49	81	42	61	-3	T	-1.4	T	4.7	81	15.7	97	88	41	0	0	2	0		
AL MONTGOMERY	70	46	82	37	58	-2	.1	-1.2	.1	3.7	66	13.0	87	93	43	0	0	2	0		
AK ANCHORAGE	46	33	50	28	40	12	T	.1	T	.1	20	2.4	114	71	44	0	2	1	0		
AK BARROW	-12	-24	-2	-29	-18	12	.1	0	T	.2	67	.5	100	78	66	0	7	2	0		
AK FAIRBANKS	40	16	48	4	28	12	T	.1	T	0	0	1.6	114	79	44	0	7	0	0		
AK JUNEAU	46	39	49	38	43	9	1.3	.6	.5	2.9	97	15.3	139	94	68	0	0	6	0		
AK KODIAK	45	33	49	26	39	4	.6	.2	.3	8.7	242	25.9	137	94	63	0	2	5	0		
AK NOME	27	9	36	1	18	8	T	-1.1	T	.1	20	.9	47	70	40	0	7	1	0		
AZ PHOENIX	81	55	85	50	68	5	0	0	0	0	0	.3	16	38	13	0	0	0	0		
AZ PRESCOTT	60	35	66	27	47	2	.2	-1.1	.2	.2	14	.2	4	51	19	0	3	1	0		
AZ TUCSON	76	47	80	40	62	1	0	-1	0	0	0	.6	32	37	10	0	0	0	0		
AZ YUMA	81	56	87	51	69	2	0	0	0	0	0	.1	9	43	17	0	0	0	0		
AR FORT SMITH	59	43	76	32	51	-4	.6	-.4	.3	4.1	114	7.5	89	99	49	0	1	4	0		
AR LITTLE ROCK	62	44	79	39	53	-4	1.5	-.4	1.4	5.3	120	10.6	86	90	58	0	0	4	1		
CA BAKERSFIELD	68	43	76	38	56	-4	.4	-.2	.3	.7	88	.8	26	82	31	0	0	1	0		
CA EUREKA	56	45	60	41	51	2	1.3	-.4	.6	4.6	102	10.7	61	94	70	0	0	4	1		
CA FRESNO	70	47	78	40	59	2	T	-.3	T	.4	29	1.6	29	83	35	0	0	1	0		
CA LOS ANGELES	69	54	78	50	61	3	0	-.3	0	.1	6	.5	7	81	37	0	0	0	0		
CA RED BLUFF	67	47	74	40	57	2	.1	-.4	.1	1.3	62	3.6	35	71	29	0	0	1	0		
CA SACRAMENTO	70	47	76	43	59	4	.4	0	.4	1.2	71	2.4	27	78	37	0	0	1	0		
CA SAN DIEGO	70	59	80	55	65	5	T	-.3	T	0	0	.6	11	80	48	0	0	1	0		
CA SAN FRANCISCO	64	47	70	44	56	2	.2	-.3	.2	1.4	61	3.3	31	82	45	0	7	1	0		
CO DENVER	44	26	49	23	35	-6	.2	-1.1	-2	1.1	100	2.1	95	84	47	0	7	3	0		
CO GRAND JUNCTION	52	35	60	31	44	-2	.7	.6	.5	1.6	229	2.0	118	77	34	0	1	4	0		
CO PUEBLO	50	30	59	24	40	-4	.4	-.2	.2	1.2	171	1.5	107	93	45	0	7	3	0		
CT BRIDGEPORT	44	32	51	28	38	-5	.9	-1.1	.7	3.2	89	9.4	92	78	50	0	2	2	1		
CT HARTFORD	47	27	52	22	37	-5	.9	-1.1	.6	4.0	103	10.7	95	86	42	0	7	3	1		
DC WASHINGTON	50	38	58	34	44	-7	4.1	3.4	1.3	6.1	197	11.2	129	82	50	0	5	4	2		
FL APALACHICOLA	69	52	75	43	61	-3	3.0	2.1	1.9	6.1	169	14.8	132	87	58	0	0	3	0		
FL DAYTONA BEACH	75	55	85	45	65	-2	.5	-1.1	.4	1.2	44	6.2	71	88	46	0	0	2	0		
FL JACKSONVILLE	74	52	86	41	63	-1	3.9	3.1	3.9	5.7	173	12.5	119	91	46	0	0	1	0		
FL KEY WEST	80	70	85	62	75	-1	.2	-1.1	.2	2.3	177	6.6	172	81	58	0	0	1	0		
FL MIAMI	83	64	89	55	74	0	T	-.4	T	6.1	359	7.0	115	88	42	0	0	1	0		
FL ORLANDO	77	58	85	49	68	-1	.5	-1.1	.5	1.9	68	6.7	82	97	48	0	0	1	1		
FL TALLAHASSEE	75	48	83	38	62	-2	2.5	1.4	2.2	7.2	144	17.3	113	97	44	0	0	2	1		
FL TAMPA	77	60	83	51	68	0	T	-.6	T	1.2	40	6.1	71	94	56	0	0	1	0		
FL WEST PALM BEACH	82	63	88	53	73	1	.1	-.6	.1	5.1	204	11.0	131	94	49	0	0	3	1		
GA ATLANTA	63	42	75	34	53	-4	1.5	-.2	1.1	5.9	109	16.7	108	84	47	0	0	3	1		
GA AUGUSTA	70	45	84	34	58	-1	3.4	2.4	2.9	5.9	134	14.2	108	88	42	0	0	3	1		
GA MACON	69	47	83	38	58	-2	1.7	-.7	1.0	4.7	104	13.4	94	86	46	0	0	2	2		
GA SAVANNAH	72	51	85	41	62	0	.6	-.2	.5	5.2	149	17.3	168	85	43	0	0	2	0		
HI HILO	80	67	82	65	74	2	2.4	-1.7	.9	3.0	25	23.8	64	87	58	0	0	6	1		
HI HONOLULU	85	71	87	68	78	3	.4	-.3	.3	.4	13	1.9	19	78	48	0	0	2	0		
HI KAHULUI	85	69	87	62	77	3	.1	-.4	.1	.4	15	4.0	38	80	55	0	0	1	0		
HI LIHUE	82	72	83	67	77	5	.2	-.8	.1	.3	7	4.1	28	82	59	0	0	3	0		
ID BOISE	50	31	55	24	40	-4	.2	-1.1	.1	1.5	136	3.2	82	83	38	0	4	2	0		
ID LEWISTON	54	36	61	31	45	-1	.2	-1.1	.1	1.5	150	2.5	78	93	51	0	2	3	0		
ID POCATELLO	48	27	54	24	38	-1	T	-.2	T	.6	75	3.2	114	85	39	0	7	1	0		
IL CHICAGO	45	28	51	24	36	-5	.2	-.6	.2	2.6	104	5.2	91	90	47	0	7	1	0		
IL MOLINE	48	32	52	27	40	-1	.1	-.7	.1	3.4	131	5.1	88	78	47	0	4	2	0		
IL PEORIA	47	33	51	29	40	-3	.5	-.3	.4	4.0	143	6.9	113	85	56	0	4	3	0		
IL QUINCY	47	36	50	31	41	-3	.6	-.2	.4	4.3	154	6.5	110	84	61	0	2	3	0		
IL ROCKFORD	44	28	49	20	36	-4	T	-.8	T	2.0	83	4.0	75	90	46	0	6	1	0		
IL SPRINGFIELD	45	34	50	31	40	-6	.4	-.5	.2	4.1	132	6.7	100	91	62	0	3	3	0		
IN EVANSVILLE	53	39	67	30	46	-4	1.1	0	.7	7.1	165	10.5	98	87	58	0	1	3	1		
IN FORT WAYNE	44	31	49	26	38	-5	.9	-1.1	.7	3.8	136	6.5	92	85	58	0	4	2	1		
IN INDIANAPOLIS	47	33	55	30	40	-5	.4	-.4	.3	3.2	94	7.4	84	82	59	0	4	2	0		
IN SOUTH BEND	45	31	51	26	38	-3	.1	-.8	.1	2.1	70	4.5	58	75	47	0	3	1	0		
IA DES MOINES	47	32	53	25	40	-2	.2	-.4	.1	1.6	80	3.5	80	82	52	0	4	2	0		
IA SIOUX CITY	45	31	53	27	38	-2	.5	-1.1	.2	1.6	100	3.1	97	93	60	0	5	3	0		
IA WATERLOO	44	29	49	24	37	-1	.1	-.6	T	1.4	64	2.8	65	89	54	0	5	2	0		
KS CONCORDIA	46	35	56	30	40	-5	.3	-.2	.3	2.5	147	3.9	118	90	63	0	2	2	0		
KS DODGE CITY	45	30	53	26	37	-10	.6	-.2	.4	2.7	208	3.7	132	92	60	0	6	5	0		
KS GOODLAND	42	28	50	21	35	-6	.5	-.3	.3	1.8	180	4.1	216	97	64	0	5	4	0		
KS TOPEKA	48	36	59	29	42	-5	.7	-.1	.6	4.4	220	6.1	149	89	65	0	2	3	1		
KS WICHITA	50	35	59	28	43	-7	1.2	-.7	.5	7.1	394	9.1	260	91	60	0	2	5	0		
KY BOWLING GREEN	54	39	67	29	46	-5	1.1	-.1	.8	5.2	104	11.2	79	94	61	0	1	3	1		
KY LEXINGTON	50	36	63	29	43	-6	1.4	-.3	1.1	4.2	93	9.2	76	91	64	0	2	3	1		
KY LOUISVILLE	54	38	64	29	46	-4	1.2	-.2	.8	4.4	102	6.9	116	81	54	0	2	3	1		
LA ALEXANDRIA	70	49	79	43	59	-3	.2	-1.0	.2	3.4	72	18.0	61	81	47	0	0	1	0		
LA BATON ROUGE	71	49	79	41	60	-4	T	-1.1	T	1.2	29	10.4	73	85	42	0	0	0	0		
LA LAKE CHARLES	73	52	77	46	63	-2	T	-.7	T	1.9	70	11.9	105	89	48	0	0	0	0		
LA NEW ORLEANS	70	50	79	42	60	-5	.2	-.8	.2	4.9	117	14.3	95	93	51	0	0	2	0		

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

+100 = NORMAL & ACTUAL NEAR THE SAME

Weather Data for the Week Ending MARCH 31, 1984

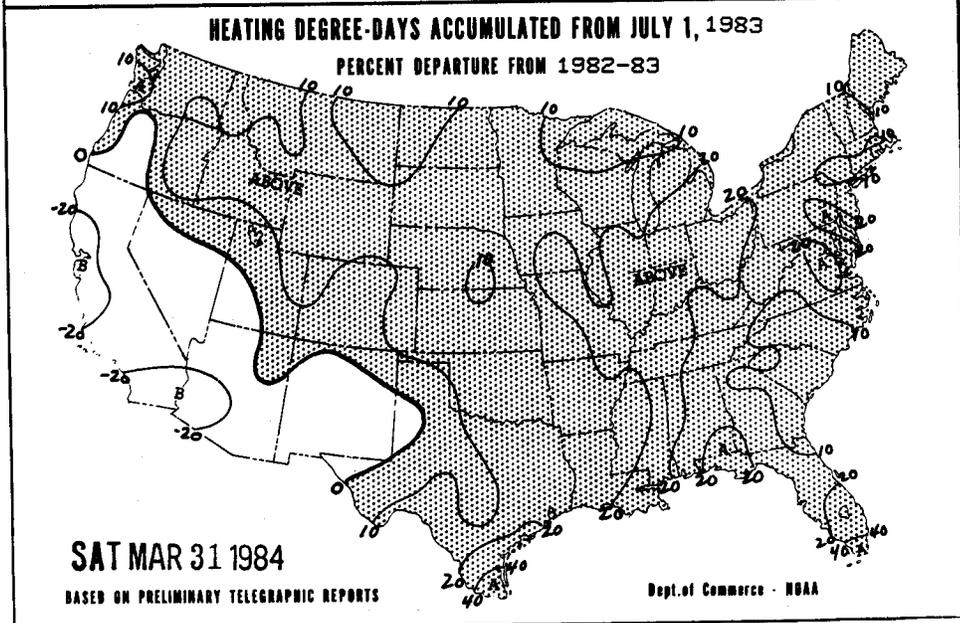
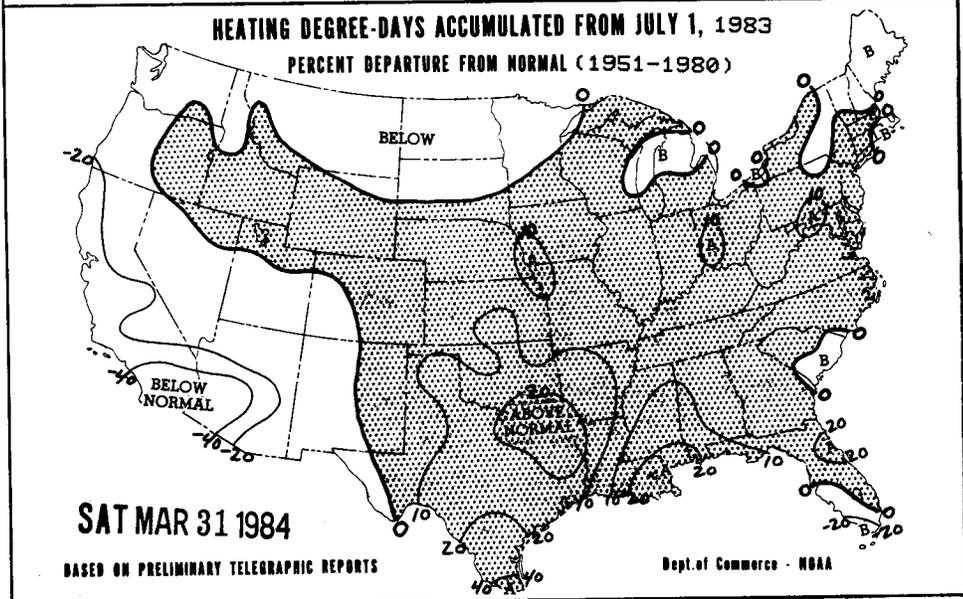
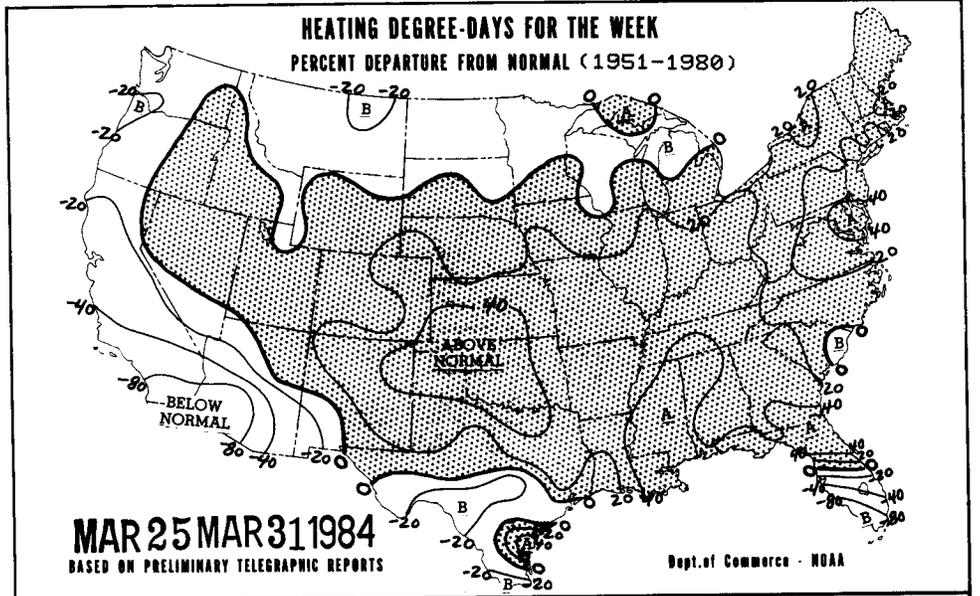
STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION								RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE MAR. 4	PCT. NORMAL SINCE MAR. 4	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	
ME SHREVEPORT	70	47	80	38	59	-2	.3	-.7	.3	3.7	106	11.4	99	88	43	0	0	1	0	
ME CARIBOU	35	20	40	12	27	-3	.3	-.6	.3	2.4	109	7.8	110	76	49	0	7	0	0	
ME PORTLAND	44	25	50	21	35	-2	.6	-.3	.5	5.0	143	12.7	112	79	40	0	7	2	1	
MD BALTIMORE	47	35	54	31	41	-7	3.5	2.6	1.5	5.7	168	11.5	115	90	53	0	1	5	3	
MD SALISBURY	51	36	54	29	43	-5	4.7	3.8	2.5	9.1	246	15.6	142	97	63	0	2	4	2	
MA BOSTON	42	31	49	29	37	-6	1.4	.5	1.3	5.8	153	16.1	133	88	52	0	5	3	1	
MA CHATHAM	42	32	46	30	37	-3	3.0	2.1	2.2	7.6	205	15.4	119	88	52	0	5	4	1	
MI ALPENA	43	24	51	17	34	1	0	0	0	2.3	115	4.0	74	86	44	0	7	0	0	
MI DETROIT	47	30	51	25	39	-2	0	0	0	3.2	128	5.4	84	77	39	0	5	1	0	
MI FLINT	44	27	46	22	35	-3	0	0	0	2.9	145	4.0	74	81	42	0	7	0	0	
MI GRAND RAPIDS	46	30	48	26	38	-1	0	0	0	2.8	117	4.8	80	80	44	0	7	0	0	
MI HOUGHTON LAKE	46	24	51	18	35	2	0	0	0	1.7	94	3.7	77	88	38	0	7	0	0	
MI LANSING	45	28	46	24	36	-2	0	0	0	2.4	114	3.7	65	82	46	0	7	0	0	
MI MARQUETTE	37	18	41	7	27	-1	0	0	0	3.9	156	8.9	131	95	55	0	7	0	0	
MI MUSKEGON	46	29	51	25	38	0	0	0	0	1.7	71	4.3	63	73	41	0	7	0	0	
MI SAULT STE. MARIE	44	24	49	20	34	4	0	0	0	2.0	111	5.6	92	84	38	0	7	0	0	
MN ALEXANDRIA	45	28	52	22	36	5	.1	-.3	.1	1.0	83	2.6	93	94	49	0	7	1	0	
MN DULUTH	37	24	45	21	30	1	0	0	0	.6	33	2.0	49	81	51	0	7	0	0	
MN INT'L FALLS	42	23	46	19	32	4	0	0	0	.2	18	1.2	43	81	45	0	7	0	0	
MN MINNEAPOLIS	45	26	50	21	36	0	0	0	0	1.4	88	3.8	115	83	41	0	7	1	0	
MN ROCHESTER	41	27	45	24	34	-1	0	0	0	1.0	63	3.2	97	88	55	0	7	1	0	
MS GREENWOOD	64	47	75	39	56	-3	.8	-.6	.7	5.5	96	13.4	83	82	49	0	0	2	1	
MS JACKSON	68	44	78	36	56	-4	.4	-1.0	.4	4.7	87	12.3	78	96	47	0	0	2	0	
MS MERIDIAN	70	41	77	31	55	-4	.1	-1.4	.1	4.0	66	11.7	71	100	45	0	1	1	0	
MO CAPE GIRARDEAU	54	41	68	35	48	1	1.2	0	.9	5.9	128	11.1	101	94	61	0	0	2	1	
MO COLUMBIA	49	36	60	29	43	-5	.2	-.7	.1	4.5	150	8.2	115	88	61	0	3	2	0	
MO KANSAS CITY	48	35	59	28	41	-6	.5	-.2	.5	4.6	200	6.7	146	94	63	0	3	2	0	
MO SAINT LOUIS	50	37	62	32	43	-5	1.1	-.3	.6	5.5	177	10.0	132	93	63	0	1	4	1	
MO SPRINGFIELD	53	38	61	30	46	-4	1.0	-.1	.4	4.8	145	9.7	131	86	61	0	1	4	0	
MT BILLINGS	45	32	49	29	38	1	.2	-.1	.1	.7	64	2.4	89	82	42	0	4	4	0	
MT GLASGOW	49	30	56	26	40	7	.2	-.1	.2	.7	175	1.3	108	84	36	0	5	3	0	
MT GREAT FALLS	46	27	52	21	37	1	0	0	0	1.2	133	2.7	93	87	44	0	7	1	0	
MT HAVRE	47	27	53	23	37	3	.1	-.1	.1	.3	60	1.2	86	96	47	0	7	2	0	
MT HELENA	46	28	50	22	37	1	.1	-.1	.5	.8	3	.9	50	87	44	0	5	3	0	
MT KALISPELL	47	29	52	24	38	2	.2	0	.2	1.2	171	2.7	75	84	44	0	6	3	0	
MT MILES CITY	50	29	54	25	40	3	.1	-.1	.1	.3	50	.4	27	84	37	0	6	1	0	
MT MISSOULA	47	32	55	28	39	1	.3	-.1	.2	1.3	163	2.5	81	88	44	0	3	3	0	
NE GRAND ISLAND	46	35	54	30	40	-1	.7	-.2	.6	2.8	175	5.2	173	87	55	0	1	2	1	
NE LINCOLN	47	32	58	25	39	-3	.9	-.3	.8	2.8	147	4.6	124	94	61	0	4	3	1	
NE NORFOLK	43	31	51	27	37	-2	.4	0	.3	2.0	133	5.2	173	90	57	0	4	2	0	
NE NORTH PLATTE	45	27	58	19	36	-4	.4	-.1	.1	1.1	110	2.5	119	84	50	0	7	4	0	
NE OMAHA	45	32	56	25	38	-3	.8	-.3	.7	2.7	150	3.9	103	94	68	0	4	3	1	
NE SCOTTSBLUFF	44	29	53	22	37	-3	.8	-.6	.6	1.5	150	2.4	126	82	47	0	6	3	1	
NE VALENTINE	43	30	50	22	37	-1	.2	-.1	.1	.8	89	1.3	76	87	60	0	4	4	0	
NV ELY	42	22	50	15	32	-4	.8	-.6	.6	1.1	138	1.9	79	91	46	0	7	4	1	
NV LAS VEGAS	70	47	81	41	58	0	0	0	0	0	0	0	0	41	17	0	0	0	0	
NV RENO	53	31	62	24	42	0	0	0	0	.2	40	.8	28	66	26	0	5	0	0	
NV WINNEMUCCA	46	28	51	18	37	-4	1.3	1.1	.5	1.5	300	2.5	104	84	46	0	6	5	1	
NH CONCORD	45	25	50	18	35	-2	.4	-.3	.4	2.9	112	10.2	124	83	39	0	7	2	0	
NJ ATLANTIC CITY	45	33	52	28	39	-6	2.5	1.6	1.3	6.0	162	12.0	109	95	59	0	2	5	2	
NM ALBUQUERQUE	58	34	66	28	46	-4	.6	.5	.3	.6	150	.9	64	82	21	0	3	2	0	
NM CLOVIS	57	33	68	29	45	-6	.1	0	.1	.2	40	.6	40	83	36	0	3	2	0	
NM ROSWELL	67	38	74	32	53	-4	0	-.1	0	.5	167	.5	50	57	17	0	1	0	0	
NY ALBANY	47	30	53	23	38	-1	.6	-.1	.6	3.1	111	7.4	94	68	40	0	5	2	1	
NY BINGHAMTON	40	25	48	19	32	-4	1.1	-.4	.7	2.3	79	7.3	88	85	51	0	7	3	1	
NY BUFFALO	42	29	47	24	35	-3	.3	-.4	.2	1.4	52	6.6	79	88	51	0	6	2	0	
NY NEW YORK	44	34	50	32	39	-7	2.0	1.1	1.6	5.0	132	10.8	103	93	54	0	2	4	1	
NY ROCHESTER	41	27	47	23	34	-4	.4	-.2	.4	1.8	78	6.9	96	87	52	0	7	1	0	
NY SYRACUSE	42	23	49	16	33	-6	.8	-.1	.7	1.7	61	6.4	76	93	50	0	7	3	1	
NC ASHEVILLE	58	38	67	32	48	-2	1.7	.6	1.4	4.9	104	13.7	110	93	56	0	1	2	1	
NC CHARLOTTE	64	44	76	34	54	-1	2.4	1.4	1.9	5.9	134	15.8	126	79	41	0	0	3	1	
NC GREENSBORO	59	41	73	35	50	-2	2.0	1.2	1.6	5.4	154	14.2	129	78	47	0	0	3	1	
NC HATTERAS	63	45	71	35	54	-1	1.1	.3	.8	3.0	83	9.7	75	83	50	0	0	4	1	
NC NEW BERN	67	47	78	39	57	0	1.8	1.1	.9	6.0	188	14.5	122	84	50	0	0	3	2	
NC RALEIGH	62	41	73	36	52	-2	2.1	1.3	1.6	5.5	162	16.0	147	84	49	0	0	3	1	
NC WILMINGTON	67	48	78	40	58	0	1.7	.9	1.1	4.3	116	11.8	104	88	52	0	0	4	2	
ND BISMARCK	42	29	49	25	35	2	.9	.7	.8	1.7	243	2.4	160	94	60	0	7	4	1	
ND FARGO	44	31	50	26	37	6	.5	-.2	.3	1.1	138	3.0	158	90	58	0	3	2	0	
ND GRAND FORKS	42	30	47	26	36	6	.2	-.1	.2	.4	50	1.5	75	95	65	0	6	1	0	
ND WILLISTON	46	28	55	24	37	5	.4	-.2	.4	.8	133	1.7	100	86	48	0	7	1	0	
OH AKRON-CANTON	45	31	50	26	38	-4	.9	-.2	.6	3.0	100	7.0	86	86	59	0	5	4	1	
OH CINCINNATI	48	33	55	23	41	-6	.8	-.1	.5	3.6	97	6.8	67	88	63	0	2	3	1	
OH CLEVELAND	41	30	46	26	35	-6	.8	0	.6	3.7	137	8.5	106	89	56	0	7	3	1	
OH COLUMBUS	47	33	53	28	40	-5	1.0	-.2	.5	3.9	130	6.9	83	83	55	0	3	4	1	

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

Weather Data for the Week Ending MARCH 31, 1984

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. 4	PCT. NORMAL SINCE MAR. 4	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	PRECIPITATION		
																		.01 INCH OR MORE	.50 INCH OR MORE	
DAYTON	44	31	50	28	38	-7	1.1	.3	.6	3.6	124	7.5	94	87	58	0	5	3	1	
TOLEDO	44	30	49	22	37	-4	.2	.5	.1	2.9	121	5.1	77	83	49	0	6	3	0	
YOUNGSTOWN	44	30	52	26	37	-3	1.3	.5	1.0	2.7	90	6.3	75	75	52	0	6	4	1	
OK OKLAHOMA CITY	55	38	65	30	46	-7	.8	.3	.5	4.7	261	6.3	143	86	51	0	2	3	0	
TULSA	56	43	70	37	49	-5	1.6	.7	.6	6.4	221	9.7	156	90	53	0	0	4	1	
OR ASTORIA	55	41	63	33	48	2	1.4	.1	.6	5.6	88	20.9	78	95	65	0	0	4	1	
BURNS	45	29	49	23	37	-2	.6	.4	.2	1.8	360	2.8	215	85	48	0	5	4	0	
MEDFORD	56	39	62	31	48	1	1.0	.7	.6	1.9	119	4.6	62	92	50	0	1	4	1	
PENDLETON	54	37	57	32	45	-1	.6	.4	.3	1.8	200	4.2	105	90	45	0	1	5	0	
PORTLAND	59	43	67	36	51	4	.7	0	.2	3.1	97	9.1	65	90	48	0	0	4	0	
SALEM	57	38	64	26	48	1	1.0	.2	.4	4.2	114	11.9	75	98	59	0	1	3	0	
PA ALLENTOWN	46	32	54	26	39	-4	1.9	1.0	1.0	3.8	109	9.0	87	75	46	0	4	4	2	
ERIE	40	29	44	25	34	-4	.7	.1	.4	1.8	62	5.8	73	82	56	0	5	3	0	
HARRISBURG	43	33	50	29	38	-8	3.5	2.7	T	5.4	169	10.9	116	86	51	0	4	5	2	
PHILADELPHIA	45	34	53	30	40	-7	2.5	1.6	1.2	6.2	172	11.1	110	90	56	0	2	4	2	
PITTSBURGH	47	32	55	29	40	-4	1.1	.3	.9	2.3	70	5.8	64	80	48	0	5	5	1	
SCRANTON	44	29	53	24	36	-5	1.4	.7	.8	2.5	100	6.7	92	77	49	0	6	3	2	
RI PROVIDENCE	45	32	50	28	39	-4	1.3	.3	1.1	5.4	135	14.7	118	79	41	0	5	4	1	
SC CHARLESTON	69	50	76	40	60	0	2.2	1.3	1.5	5.7	143	14.3	128	92	51	0	0	3	2	
COLUMBIA	69	44	80	32	56	-2	2.9	1.9	1.7	5.5	122	14.5	106	92	41	0	1	3	2	
FLORENCE	67	46	79	36	57	-2	2.5	1.6	1.4	4.9	129	12.2	109	95	51	0	0	2	2	
GREENVILLE	62	43	71	34	53	-2	2.4	1.1	2.3	5.8	105	16.0	107	82	42	0	0	3	1	
SD ABERDEEN	44	33	52	30	39	4	1.1	.8	.7	1.9	190	3.3	150	95	71	0	2	3	1	
HURON	46	33	53	28	40	4	.4	.1	.3	.9	82	2.5	104	98	66	0	3	3	0	
RAPID CITY	46	27	53	18	36	-1	.1	.2	.1	.6	60	1.0	48	83	42	0	6	3	0	
SIoux FALLS	42	30	49	23	36	-1	.5	.1	.3	1.3	93	3.1	111	97	69	0	5	3	0	
TN CHATTANOOGA	59	41	66	29	50	-4	1.2	.1	1.0	3.8	67	11.5	70	87	48	0	1	3	1	
KNOXVILLE	61	40	70	29	51	-3	1.3	.1	1.1	3.8	76	10.6	73	91	52	0	1	4	1	
MEMPHIS	60	45	70	28	53	-4	1.2	.1	1.0	6.1	122	12.5	85	89	56	0	0	2	1	
NASHVILLE	58	41	71	29	49	-4	1.8	.6	1.4	5.1	102	9.3	65	88	55	0	1	2	1	
TX ABILENE	71	43	80	33	57	-3	T	.3	T	.5	50	2.0	65	74	25	0	0	0	0	
AMARILLO	54	32	72	26	43	-7	.7	.5	.5	.9	113	1.9	106	86	39	0	4	3	0	
AUSTIN	78	52	96	45	65	1	T	.4	T	2.4	185	5.1	89	74	29	1	0	1	0	
BEAUMONT	70	53	79	46	62	-3	T	.7	T	1.9	73	12.6	117	94	55	0	0	0	0	
BROWNSVILLE	84	60	106	52	72	1	0	.2	0	.1	20	5.4	159	82	36	1	0	0	0	
CORPUS CHRISTI	80	55	101	41	68	-2	0	.3	0	.2	25	6.6	153	79	35	1	0	0	0	
DEL RIO	80	53	96	42	67	0	0	.2	0	0	0	1.6	84	61	17	1	0	0	0	
EL PASO	72	43	77	30	57	-1	T	0	T	.4	133	.7	64	40	15	0	1	1	0	
FORT WORTH	67	47	81	40	57	-3	.1	.5	.1	4.9	223	9.0	153	83	40	0	0	2	0	
GALVESTON	69	56	75	49	63	-2	0	.5	0	1.4	70	5.6	75	86	52	0	0	0	0	
HOUSTON	74	51	87	43	63	-2	T	.7	T	2.4	100	10.6	114	79	41	0	0	0	0	
LUBBOCK	64	36	76	27	50	-5	.2	.1	.1	.3	33	.5	28	76	27	0	1	2	0	
MIDLAND	71	41	79	31	56	-3	T	.1	T	0	0	.6	40	52	17	0	1	0	0	
SAN ANGELO	75	44	85	31	59	-2	T	.2	T	.5	71	3.5	159	74	21	0	1	1	0	
SAN ANTONIO	79	52	96	38	65	0	T	.4	T	1.9	146	4.2	88	75	24	1	0	0	0	
VICTORIA	79	53	95	42	66	-1	T	.3	T	1.8	150	6.3	109	85	34	1	0	0	0	
WACO	73	46	88	38	59	-3	0	.6	0	3.5	184	5.3	88	89	41	0	0	0	0	
WICHITA FALLS	63	41	72	33	52	-6	.4	.2	.3	1.5	79	2.5	60	81	38	0	0	3	0	
UT BLANDING	48	29	57	25	38	-4	.4	.2	.2	.6	75	1.3	38	78	37	0	6	2	0	
CEDAR CITY	47	29	52	21	38	-4	1.7	1.5	.5	1.9	211	3.4	126	84	33	0	5	6	1	
SALT LAKE CITY	52	36	59	30	44	0	.1	.4	.1	1.6	100	3.0	68	77	36	0	2	2	0	
VT BURLINGTON	40	21	46	14	30	-5	.2	.4	.2	1.7	81	5.5	92	85	40	0	7	2	0	
VA NORFOLK	58	40	67	34	49	-4	2.7	1.9	2.0	5.1	150	12.7	115	82	47	0	0	5	1	
RICHMOND	55	40	61	34	47	-5	5.2	4.5	2.2	8.7	272	16.8	166	83	45	0	0	4	3	
ROANOKE	53	40	61	36	47	-4	1.6	.8	1.2	4.3	126	10.6	106	87	55	0	0	3	1	
WA COLVILLE	52	33	58	28	42	2	.4	.2	.3	2.6	236	5.6	114	90	65	0	3	3	0	
QUILLAYUTE	55	36	62	30	45	2	2.2	0	1.2	8.8	88	41.8	107	99	61	0	1	3	2	
SEATTLE-TACOMA	55	40	62	33	48	2	.8	.1	.4	3.8	123	11.3	82	92	50	0	0	3	0	
SPOKANE	49	31	57	28	40	0	.5	.2	.2	1.5	136	4.0	75	91	55	0	3	3	0	
YAKIMA	58	33	62	27	46	1	.2	0	.1	1.1	183	2.1	72	78	36	0	3	2	0	
WV BECKLEY	49	35	63	29	42	-4	1.1	.1	.7	1.8	47	7.4	66	93	69	0	3	4	1	
CHARLESTON	54	39	67	35	46	-3	1.3	.4	.8	2.8	74	7.0	64	82	48	0	0	4	1	
HUNTINGTON	53	40	61	32	46	-3	.9	0	.6	2.5	66	6.3	62	84	56	0	1	4	1	
PARKERSBURG	52	37	60	30	45	-3	1.7	.8	.7	3.2	86	5.9	52	98	61	0	2	5	2	
WI GREEN BAY	43	26	47	24	35	0	T	.5	T	1.8	100	3.9	95	85	46	0	7	0	0	
LA CROSSE	50	27	55	21	39	1	0	.6	0	1.9	95	2.9	73	76	33	0	6	0	0	
MADISON	46	25	50	20	36	-2	T	.6	T	1.1	55	2.7	63	85	42	0	7	0	0	
MILWAUKEE	41	30	45	26	36	-2	T	.7	T	2.2	88	4.3	74	78	51	0	6	0	0	
WAUSAU	45	26	48	23	36	2	T	.5	T	1.2	67	3.1	84	83	39	0	7	0	0	
WY CASPER	44	24	50	20	34	-2	.5	.2	.3	1.5	167	3.3	157	96	42	0	7	4	0	
CHEYENNE	36	21	44	15	29	-7	.7	.5	.5	1.4	127	2.8	122	89	57	0	7	4	1	
LANDER	41	25	42	20	33	-3	.4	0	.2	.6	55	2.9	132	86	44	0	7	4	0	
SHERIDAN	47	28	52	23	37	2	.5	.2	.3	1.5	167	2.6	104	92	50	0	6	4	0	
PR SAN JUAN	92	73	95	71	83	4	0	.6	0	.8	36	6.0	79	80	44	6	0	0	0	

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS



National Agricultural Summary

March 26 to April 1

HIGHLIGHTS: Heavy rain from the delta States through the Southeast and into New England brought farm activities to a standstill. Farmers in these regions had less than 3 days suitable for fieldwork. Soil moisture was rated mostly adequate to surplus, except in the Southwest and west Texas where supplies continued short. Abnormally cool temperatures covered most of the Nation, limiting small grain and pasture growth from the central Plains through the Mid-Atlantic States.

Corn planting was limited to well-drained soils across the South. Planting ranged from just starting in Virginia to 57% complete in Louisiana. Progress continued to lag behind normal in all southern States except in Louisiana and Texas. Sorghum seeding was limited to Texas. Growers seeded 45% of their acreage, compared with the 50% average. Cotton planting was widespread in Arizona and moved into central Texas. California's cotton planting gained momentum. Rice seeding was 18% finished in Louisiana, 26% complete in Texas, and just getting started in Mississippi. Winter wheat continued in fair to good condition, except in western portions of the central and southern Plains, and dryland stands in the Southwest where poor conditions exist. However, cool weather stalled development in most regions. Some above-normal winterkill was reported in portions of the central and northern Plains. Tobacco plantbed seeding was active from Kentucky to Virginia, but transplanting was slowed by wet conditions. Transplanting ranged from 4% finished in South Carolina to 21% complete in Georgia. Peaches bloomed from Arkansas to South Carolina. Vegetable planting and harvesting continued active in California, Arizona, Texas, and Florida. Progress elsewhere was slowed by rain. Potential pasture growth in the South was limited by cool temperatures. Livestock continued in mostly fair to good condition with supplemental feeding in most regions. Muddy conditions hindered calving and lambing in most areas.

SMALL GRAINS: Winter wheat was rated fair to good, except in the southwestern portions of the Great Plains and in dryland fields in the Southwest where dry conditions left the crop in poor condition. Some above-normal winterkill was reported in scattered areas across the central and northern Plains. Cool temperatures limited potential growth in most regions, however, soil moisture was adequate except in west Texas and the Southwest. Wet conditions halted topdressing of small grains in most areas. Spring wheat seeding got underway on a limited basis.

Cool temperatures in Kansas impeded winter wheat growth. Stands were in mostly fair to good conditions, except in the Northwest where poor conditions prevailed. Light wind, disease, and insect damage was reported in the southwestern and central areas. Producers had seeded 70% of the barley and 65% of the oats. Nebraska's winter wheat was in mostly fair to poor condition. The poorest conditions were across the southern third of the State. Stands had not fully broken dormancy in the Panhandle. The extent of the State's possible winterkill was unknown. Cool, wet weather in Oklahoma continued to delay growth of wheat and other small grains. Broadleaf weeds were a problem in the wheat fields in western areas. Stands continued in good condition with adequate soil moisture. Small grains in Texas made good progress despite the lack of moisture. Wheat and oats began heading out in central Texas. Light amounts of snow and rain on the High Plains may have saved dryland fields but some damage resulted from windy weather. Statewide, winter wheat was in mostly fair to good condition. Montana's winter wheat was

greening up. The crop was rated good with only light wind damage. Soil moisture was short to adequate in north-central and eastern areas, but generally adequate elsewhere.

OTHER CROPS: Rain and cool temperatures stalled corn planting across the South. Progress ranged from just beginning in Virginia to 55% finished in Texas and 57% complete in Louisiana. Some replanting may be necessary in areas where heavy rains eroded fields. Emerged plants were in mostly fair condition.

Sorghum planting was confined to Texas. Planting was virtually complete in central and south Texas, but rain further delayed planting in the northern Blacklands. Statewide, 45% of the crop was planted, 5 percentage points behind normal.

Cotton planting was widespread in Arizona. Plants were emerging and some stands were established in Yuma County. The Texas crop made good growth in the Coastal Bend area and the Rio Grande Valley. Planting started on a limited basis in central Texas. Producers could experience pre-plant moisture problems in dryland areas unless additional rainfall is received. Seeding was 7% finished, compared with the average of 9%. Planting in California gained momentum.

Rice seeding had not started in Arkansas or California, but producers had planted 18% of their acreage in Louisiana and 25% in Texas. Mississippi growers began seeding their crop.

Tobacco transplanting was slowed by rain and wet conditions from South Carolina to Florida. Elsewhere, producers actively seeded plant beds. Transplanting was 4% finished in South Carolina and 21% complete in Georgia. Peanut planting got underway in Texas on a limited scale.

FRUITS AND NUTS: Peaches bloomed from Arkansas to South Carolina. The South Carolina crop was rated good with only minimal weather-related damage. In Georgia, 97% of the peach orchards were blooming and 45% of the apple crop was in bloom. Texas peach trees were nearing the end of the bloom stage and pecans were beginning to leaf out.

Florida's citrus groves were past peak bloom and were rated good. The Valencia orange harvest was slow, but grapefruit movement was active on the east coast.

In Arizona, seasonal volumes of Valencia oranges and grapefruit were picked. Tangerine harvesting was winding down and lemons were picked only to fill orders.

California's citrus crops were blooming. The Valencia orange harvest was very light as the season began and the Navel orange harvest was three-quarters complete. Stone fruit orchards were mostly in bloom. Most grape varieties were leafing out. The almond set was reported heavy.

VEGETABLE: Strong winds in Florida caused some foliage burn of tender vegetable crops. Some bloom loss and fruit scarring also occurred. Vegetable shipments rose 21% from the previous week. Only Chinese cabbage and radish supplies were lower. Strawberry supplies reached peak levels.

Cabbage and carrot harvesting declined in Texas. Spring vegetables were making good growth in most areas. Onion seeding and transplanting continued active. Spring lettuce packing increased in Arizona's Salt River Valley, but was past peak volumes in the Parker area and neared completion in the Yuma area. A wide variety of vegetables were harvested in volume from the Salt River Valley.

Strawberry picking was in full swing along California's south coast and increased along the central coast. Tomato planting continued active in

(continued on back cover)

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 averaged 2 to 8° below normal. Rainfall totals ranged 1.00 to 2.00 in. north to 0.25 to 0.50 in. south.

Soil moisture adequate to surplus. Fieldwork 2.3 days. Activities: General farm chores and machinery repair, routine care of livestock and poultry, planting corn and some vegetables, applying nitrogen to wheat. Pasture and stored feed, mostly short. Fieldwork behind schedule. Plowing 42%. Conditions: Livestock and pasture mostly fair; wheat, fair to good.

ARIZONA: Storm with high winds moved across State late 26th and early 27th, brought rain, snow to northern half. Rainfall ranged from trace at Kingman to over 0.50 in. Prescott, Sedona, over 1.00 in. Winslow, Kim-Li-Chee. About 7,000 ft. snowfall ranged from trace at south rim to 2 to 11 in. in White Mountains. Another storm spread some rain, snow over northern half on 30th. Storm began moving into State late 31st with snow over northern half. Average temperatures varied from 3° below normal to 5° above.

High winds, little rain left ranges, pastures unseasonably dry. Northern areas some snow, rain, barely adequate soil moisture, stock water. Range feed below average. Cattle, sheep mostly good. Less rain in midlevel, desert areas left stock water short, range feed sparse. Cattle southern half fair. Insect damage limited. Cotton planting continued active La Paz, Yuma, Maricopa, Pinal Counties, started Mohave, Pima Counties. Planting expected to start Graham County first week of April. Seedbed preparation, pre-irrigation active. Plants emerging, some stands established Yuma County. Wheat, barley mostly average, nearly half headed. Alfalfa harvest increased southwest, started Mohave Valley, Central Valley. Crop in average condition, growers irrigating, applying weed, insect controls as needed. Spring lettuce packing increased Salt River Valley, started Ricacho area. Movement passed peak volumes Parker area, over half the crop harvested. Packing winding down Yuma. Some wind damage to developing lettuce crop Cochise County. Mixed vegetables harvested in volume Salt River Valley. Some cauliflower, asparagus packed in Yuma. Grapefruit harvest seasonal levels, some going to export markets. Lemons picked on demand as orders received. Valencia picking continued seasonal levels, tangerine harvest winding down.

ARKANSAS: Warm weather early in week, colder and rainy midweek. Temperatures normal to 6° below normal. High 80°, low 26°. Rainfall 0.40 to 2.71 in.

Fieldwork a few to ten days behind schedule. Only 3.0 days favorable for fieldwork. Soil moisture surplus. Too wet for field preparation. Corn planted 5%; 33% 1983 and average. No other crops planted. Winter wheat in good to fair condition. Most oats froze out. Pastures have little growth. Livestock fair. Peaches in bloom.

CALIFORNIA: Fourth consecutive week with statewide temperatures above average. Only exception this week was the extreme northeastern corner. Weekly mean temperatures were as much as 6° warmer than normal along south coast and San Joaquin Valley. Light precipitation at the end of the week impacted mainly northern third of the State. Some snow was added to the Sierra Pack. Freezing temperatures generally confined

to the mountains although isolated central coast valleys dipped briefly below freezing.

Fieldwork active. North Coast wild rice worked, weed-treated. Wheat fields dry, progressing well, Sacramento Valley. Field corn planting, central, southern regions. Harvesting sugarbeets, spring planting. Barley, wheat, San Joaquin Valley, doing well; continued irrigation and fertilizer, pesticide applications. Cotton planting continues. Safflower progressing. Oats, alfalfa greenchopped. Kern County small grains irrigated heavily. Rice preparation, northern San Joaquin Valley. Warm, dry weather made early irrigations necessary most areas. Apple trees in bloom, Central Valley. Avocado harvest continues, excellent quality. Cherry bloom complete northern part San Joaquin Valley. Bloom was heavy. Date pollination continues. Nearly all grape varieties leafing out. Pears full bloom. Prune bloom about complete. Stone fruit orchards good growth. Fruit continues set for early varieties. Citrus crops blooming. Grapefruit harvest continues normally. Lemons harvested southern coast, Central Valley. Navel orange harvest near three-fourths complete, Valencia harvest very light as season begins. Almond set heavy. Pistachio trees budding out. Some walnut varieties developing catkins, leaves. Artichoke harvest increased. Asparagus volume increasing central California, decreasing Desert. Light harvest snap beans desert, planting other areas. Broccoli fairly heavy supply Central Coast. Planting brussels sprouts. Early cantaloup fields blooming, setting fruit Desert. Cauliflower moderate supply Central Coast. Celery harvest active South Coast. Lettuce harvest heavy San Joaquin Valley, very light Central Coast. Normal movement fall potatoes Tulelake-Butte Valley. Strawberry harvest full swing South Coast increasing Central Coast. Sweetpotato hotbeds doing well San Joaquin Valley. Planting market tomatoes San Joaquin Valley. Staking pole tomatoes Cutler-Orosi. Planting, replanting processing tomatoes Sacramento, northern San Joaquin Valleys. Winds dried ranges, pastures pushing grasses to maturity central, southern districts. Beginning, movement livestock summer ranges increasing. Sheep shearing continues.

COLORADO: Entire State affected by cold weather and frequent precipitation. On the 26th and 27th, a storm brought amounts from 0.25 to 0.50 in. On the 29th and 30th, another storm brought from 1 to 10 in. snow. The 31st saw another 0.20 to 0.40 in. of moisture fall over the State. Temperature 2 to 5° below normal.

The 1984 winter wheat crop in good condition. Wind and winter freeze damage appears light. Barley in good condition with 18% seeded; last year 18%; 20% average; emergence 5%, last year 1%, average 2%. Spring wheat in good condition with 4% seeded, last year 4%, average 4%. Oats in good condition with 14% seeded, last year 12%, average 18%. San Luis Valley growers not yet planting. Livestock in good condition, statewide.

FLORIDA: The major storm system moving across the south brought very strong winds over the State at midweek. Winds exceeded 40 mph statewide. Rains with this system were confined mainly to the north, averaging 1.00 to 3.00 in. with spots exceeding 7.00 in. Generally isolated light rains elsewhere. Temperatures very warm

early week, soaring well into the 80's with some 90° readings central south interior. Winds decreased, temperatures dropped as the system moved away late week. Skies at weekend remained clear with dry conditions; early morning temperatures were cool, ranging from near 40° north to near 50° central, 50s south. Afternoons were mild.

Soil moisture mostly adequate south, central, adequate to surplus north, west. Corn planting continues, some fields washed out by heavy rains; replanting may be necessary. Tobacco transplanting continues, heavy rains caused some problems. Land preparation for soybeans, peanuts continues. Most farmers a little behind schedule due to unsettled weather. Small grains fair to good condition. Sugarcane mostly good condition. Permanent pastures beginning to show growth due to adequate moisture and warmer temperatures. Conditions good to excellent in the south and mostly fair elsewhere. Cattle generally good condition statewide and continue to improve. Citrus grove condition good. Rain most areas up to 1.00 in. early week, very high winds, midweek. Bloom past peak with petal drop most trees. Valencia orange harvest slow. Grapefruit movement active east coast. Ideal weather prevailed first part of week vegetable growing areas. Strong winds occurred midweek, causing foliage burn most tender crops, some bloom loss, fruit scarring occurred. Rainfall light, except near Lake Okeechobee area. Overall shipments gained 21% over previous week. Crops increasing were cabbage, carrots, cauliflower, sweet corn, cucumbers, eggplant, peppers, squash, strawberries, tomatoes. Crops remaining steady were snap beans, celery, escarole, lettuce, potatoes. Chinese cabbage, radish supplies were lower. Strawberry supplies at peak level. Good volume expected next three weeks. Cabbage, cucumber, sweet corn, pepper harvest gaining rapidly. First watermelon harvest expected in two weeks, Immokalee area.

GEORGIA: Rainfall totals 1.00 to 2.00 in. north, less than 1.00 in. central and 3.00 to 8.00 in. extreme south. Most rain fell across south late 26th through 27th and over north afternoon of 28th. Temperatures 3 to 7° below normal. Freezing temperatures common in north mountains 30th through 2nd mornings. Temperature extremes ranged from 23° at Claxton to 87° at Clayton.

Soil moisture 80% surplus, 20% adequate. Average days suitable for fieldwork: 1.6. Heavy erosion and san-blasting damaged some fields and crops south. Corn 51% planted, last year 28%, average 53%; condition 31% good, 52% fair, 14% poor. Tobacco 21% transplanted, 20% last year, 46% average; condition 34% good, 48% fair, 14% poor. Watermelons 55% planted, last year 30%, average 53%; condition 14% good, 56% fair, 28% poor. Cotton planting 0%, last year 0%, average 2%. Grain sorghum 3% planted, last year 1%, average 2%. Wheat 69% jointing, last year 75%; 27% boot, last year 30%; 6% headed, last year 9%; condition 3% excellent, 54% good, 39% fair. Other small grains 4% excellent, 42% good, 42% fair, 11% poor. Pastures 54% good, 35% fair, 7% poor. Peaches 97% blooming, last year 89%. Apples 45% blooming.

HAWAII: A mixture of nocturnal showers and mostly sunny days benefitted agricultural crops. The volcanic eruption on Hawaii Island poses no problem to agriculture at the moment. Daily temperatures continued to read above normal levels. Record high temperatures were matched on some days. Gustly winds of 15 to 30 m.p.h. helped

to cool conditions in some areas, but also posed problems for vine crops, and those in exposed areas.

Most crops made improved progress and were in good condition. Supplies of Chinese cabbage remain heavy with part of the output being shipped to the U.S. mainland. Production of Head cabbage, tomatoes, and Head lettuce will also remain steady and heavy. Papaya harvesting on its seasonal upswing. Recent rains have benefitted to the crop which largely dependent on natural rainfall.

IDAHO: A series of Pacific storm systems brought periods of clouds and precipitation across the State. Heaviest precipitation fell in the north. Grangeville reported the most weekly rainfall with 1.44 in. Precipitation was much lighter in the south, averaging about 0.20 in. in the southwest, and 0.10 in. elsewhere. Average temperatures were about 5° below normal statewide. Average soil temperatures ranged from the upper 30's to the mid 40's.

Fieldwork was started in the southern and western areas, while most fields were still snow covered in the rest of the State. Grain and sugarbeet planting began in several locations. Farm activities last week included: Fertilizer and pesticide spraying; calving and lambing; machinery and equipment preparation; and sorting and shipping seed potatoes. Feed supplies continued to be short in several areas.

ILLINOIS: Temperatures 1 to 5° below normal. Precipitation none to 1.85 in., heaviest south.

Wheat condition fair to good. Livestock condition mostly fair.

INDIANA: Temperatures 2 to 5° below normal. Greatest departure south and east central. Precipitation 0.10 to 0.20 in. north and central. One-half to 1.00 in. south.

Soil temperatures upper 30's to lower 40's. Wet soil conditions continued to hold equipment out of fields. Seed and chemicals being delivered as farmers await drier conditions to start the 1984 crop season. Activities: Cutting wood, purchasing supplies, hauling hay and feed, caring for livestock and usual chores. Wheat looking poor in some areas. Some drying occurred over the weekend but more needed for fields to be workable.

IOWA: Cold, cloudy week. Soils cold and several areas muddy; subnormal to moderate precipitation.

About 20% of calving completed and over 50% of lambing completed. Livestock producers having difficulties with out of condition cows, weaker calves, muddy lots and fields, and fewer ewes with twin lambs. Cattle losses mostly average; 15% below average; 10% above average losses. Hay quality and condition mostly fair to good. Hog and pig losses mostly average; 11% below normal; 13% higher than average losses. Fertilizer supplies adequate. Grain movement increased substantially.

KANSAS: Precipitation averaged 0.30 to 0.40 in. central and north central, 0.50 to 0.80 in. elsewhere. Temperatures averaged 37 to 39° west, 40 to 45° east and central. These were 4 to 8° below normal.

Wheat condition mostly fair to good except poor northwest. Growth impeded by cool temperatures. Light wind damage southwest and central third of State. No damage from ice and snow storms. Light to moderate disease infestation. Light insect infestation to wheat southwest and south central. About 70% barley and 65% oats planted. Soil moisture generally

adequate. Muddy conditions create problems for livestock.

KENTUCKY: Week began and ended with seasonally mild temperatures. At midweek a cold front brought cold temperatures and moderate to heavy precipitation. Temperatures averaged from slightly above normal to 6° below normal. Normal high is around 63° and average low is around 39°. Precipitation totals ranged from 0.70 in. to more than 2.50 in.

Soils saturated are preventing much fieldwork. Soil moisture reported 74% surplus, 25% adequate and 1% short. Tobacco beds 33% seeded, well behind the 71% last year and 62% average. Land plowed 30%, behind last year and average. Condition of fall seeded grains poor to good. Winterkill the greatest on oats, barley, and late seeded wheat. Also, appears to be some herbicide carryover damage. Fields have been too wet to topdress. Alfalfa and clover stands also hurt by cold and stress of last year's drought. Approximately 90% of livestock on winter feed, but about 16% of total cattle roughage requirement from pastures.

LOUISIANA: Rainfall amounts were less than 0.25 in. except at several northern stations where totals were over 1.00 in. up to 3.50 in. Average temperatures were from 1 to 4° below normal. High 84°, low 37°.

Soil moisture adequate. Days suitable for fieldwork: 4.6. Activities included spring plowing, rice and corn planting, spraying livestock, and repairing farm equipment. Spring plowing 37% 1984, 43% 1983, 51% average. Rice planted 18% 1984, 10% 1983, 18% average. Rice emerged 9% 1984, 8% 1983. Condition fair to good. Corn planted 57% 1984, 41% 1983, 34% average. Corn emerged 34% 1984, 20% 1983. Condition fair to good. Sorghum planted 2% 1984, 1% 1983. Sugarcane condition poor to fair. Vegetable condition fair. Strawberry harvest continues. Planting watermelons and peppers. Wheat headed 26% 1984, 11% 1983. Condition fair to good. Pastures and livestock rated fair.

MARYLAND AND DELAWARE: **Maryland:** The week was cold and wet. Temperatures average mostly 4 to 7° below normal. Precipitation averaged 3.58 in. for the State, but ranged from 2.36 in. at Cumberland to 6.38 in. at Prince Frederick. Weekend weather was cooler than normal with sunshine.

Very little fieldwork was done during the week. A few fields of peas and some sweet corn were planted on the lighter soils. Some small grains were topdressed as weather permitted.

Delaware: It was a cool wet week. Temperatures averaged 5 to 6° below normal. Precipitation averaged 3.40 in. statewide. Wilmington received 2.41 in. and Georgetown to the south received 4.27 in.

Very little fieldwork was done except on the lighter soils. A few fields of peas were planted and topdressing of small grains was completed on some fields.

MICHIGAN: Cool temperatures prevailed across the State with temperatures averaging 3° below normal. Moderate amounts of precipitation fell statewide. Precipitation was heaviest over the southeast corner where precipitation averaged 1.48 in.

Fruit growers beginning to evaluate the affects of the severe winter weather. Some trunk damage has been noted. Fruit trees beginning to come of dormancy. Overall wheat condition good. Spring tillage operations expected to get underway about mid-April.

MINNESOTA: Second week of normal to above normal temperatures and below normal precipitation. Temperatures averaged near normal in the southern portion to 8° above normal in the northwest. High: 55°. Low: 14°. Precipitation averaged near normal for the western third of the State and 0.26 to 0.52 in. below normal elsewhere. Greatest weekly total: 0.70 in. Snowfall averaged zero to a trace. Snow depths at weeks end averaged 4 in. in the northeast and north central to near zero elsewhere.

Most areas had almost no frost in the ground so snow melt has soaked in and surface run off has been minimal. Soils were still very wet but continued dry sunny weather would mean that planting would not be delayed very much. Fieldwork in a few areas expected to start before April 15. Farmers currently active rearing machinery, cleaning livestock buildings, and lining up seeds and chemicals.

MISSISSIPPI: Temperatures slightly below normal. Extremes 28 and 84°. Thunderstorms and hail the 28th and 29th. Greatest 24-hour rainfall 3.25 in. Greatest weekly rainfall 3.29 in.

Soil moisture adequate in south central and southeast; surplus other areas of the State. Fieldwork: 2.3 days suitable, 2.5 1983, 2.1 average. Main activities were preparing equipment for spring planting, and, in drier areas, planting corn. Plowing 27% completed, 28% 1983, 42% average. Wheat fair to good; 60% jointing, 38% 1983; 1% heading. Watermelon planting 10% completed, 9% 1983. Corn 17% seeded, 17% 1983, 25% average; 8% up to stand. Rice seeding just underway. Hay and roughage supplies remain short. Feed grain supplies short to adequate. Pasture condition and livestock condition fair.

MISSOURI: Temperatures remained below normal and cool, averaging 3 to 6° below normal. Rainfall averaged around 0.50 in. for the State with heavier amounts along the southern border.

Reports of calving difficulties have been received during March due to extremely wet and muddy conditions. Livestock feeders having problems maintaining gains in muddy feedlots. Pastures starting to grow slightly with the warmer seasonal weather. Fields still wet and will need to be cultivated before spring planting of oats and corn begin.

MONTANA: Temperatures near to slightly above normal. Some sub-zero temperatures over southwest about midweek. Precipitation heaviest, an inch or two along or near the mountains in southwest and south central. Precipitation near normal west and mostly below normal elsewhere.

Winter wheat condition good, wind damage light. Crop greening up most areas. Soil moisture short to adequate north central and eastern areas, generally adequate elsewhere. Calving about 55% and lambing 50% complete, both progressing normally.

NEBRASKA: Precipitation widespread, 0.25 in. west, 0.50 to 1.00 in. east. Temperatures 3° below normal.

Winter wheat mostly fair to poor. Lowest rating for date since records began in 1965. Poorest conditions in southern third of State. Panhandle winter wheat not fully broken dormancy. Extent of possible winterkill unknown. Crown and root rot common over east and south. Spring moisture accumulations continue to be bright spot for some winter wheat come back. "Feedlots belly deep!", drying weather badly

needed. Hay and forage supplies very tight in southeastern counties. Snow nearly gone.

NEVADA: A series of storms brought three significant precipitation periods during period. First storm reached northwest beginning of week. A second storm quickly followed on heels of first dropping precipitation northern half. Last storm hit end of period but precipitation light and scattered. Each storm brought cooler air behind it. Week started with afternoon highs above normal but ended well below normal. Overall effect for week was slightly below normal average temperatures.

Fieldwork slowed by scattered showers and gusty winds. Cold winds hard on newborn calves and lambs.

NEW ENGLAND: Temperatures averaged 2 to 6° below normal. Over 6 in. of snow fell on 29th over the southern two thirds of New England with 17 in. recorded at Salem, NH.

Sugaring continued active throughout the week. Fields remain too wet or snow covered for any spring activities.

NEW JERSEY: Temperatures averaged 7° below normal. Extremes were 21° on the 27th and 58° on the 28th. Weekly rainfall averaged 2.49 in. north, 3.18 in. central and 2.32 in. south. The heaviest 24-hour total was 3.10 in. on the 28th to 29th. Estimated soil moisture, in percent of field capacity, averaged 100% north, 100% central and 99% south. Four inch soil temperatures averaged 37° north, 41° central and 42° south. Snowfall ranged from trace amounts in the south to 19 in. in the north, on March 28th through 30th.

Farmers tending to normal springtime chores. Soil moisture continues to be adequate to excessive. Some frost damage has been found in fruits and vegetables. Wet conditions have been bad for the wheat crop and fieldwork.

NEW MEXICO: Average temperatures were between 5 and 10° below normal in the northeast quarter of the State and slightly below normal elsewhere. Minimum temperatures 8° in northern mountain areas; maximum 80° in southeastern plains. A series of winter storms crossed the State during the week but the more significant precipitation was confined to the northern portions where a few locations reported totals of between 0.50 and 1.50 in.

Irrigated wheat and barley rated fair to good; dryland rated poor to fair. Potato planting continues in eastern plains. In the Mesilla Valley lettuce rated in mostly good condition. Chile planting 60% complete. Some wind damage reported to winter seeded onions. Pecans beginning to break bud. Major activities include cotton pre-irrigation, fertilizer and herbicide application and supplemental livestock feeding.

NEW YORK: Temperatures below normal, in upper 20's and 30's. Very strong storm 29th and 30th brought 2.00 in. of rain to New York City, elsewhere it was mainly snow. Snow amounts ranged from 10 to 24 in. in hilly sections to 3 to 10 in. in valleys. Northern and western areas had 1 to 5 in. of snow.

Farm activities temporarily halted by the storm in many areas.

NORTH CAROLINA: Temperatures 1 to 3° below normal. Precipitation above normal.

Soil moisture: 19% adequate, 81% surplus. Days suitable for fieldwork: 1.6. Condition: wheat 18% fair, 78% good, 4% excellent. Oats 2%

poor, 29% fair, 64% good, 5% excellent. Barley 26%, 69% good, 5% excellent. Rye, 22% fair, 72% good, 6% excellent. Pasture: 3% poor, 29% fair, 66% good and 3% excellent. Tobacco beds 28% fair, 70% good, and 2% excellent. Farm feed supplies: Hay and roughage 30% short, 70% adequate; feed grains 24% short, 76% adequate. Plantings: Irish potatoes 75%, 1983 60%, average 56%. Major farm activities: Topdressing small grains and pastures, caring for tobacco plant beds, general farm maintenance, land preparation for spring planting, tending livestock, planting spring potatoes and setting cabbage.

NORTH DAKOTA: Temperatures and precipitation were above normal. Temperature extremes ranged from 58° on 25th to 19° on 30th. Divisional averages ranged from 3.6° above normal west central and central to 6.6° above normal northwest. Most of precipitation occurred during midweek storm that produced rain and snow. Highest amount 0.92 in. Divisional averages ranged from 0.15 to 0.64 in. Departure from normal ran from 0.05 in. below normal northeast to 0.45 in. above normal south central.

More than normal winterkill of winter wheat reported for 31% of State and about normal for 63% of State. Topsoil moisture adequate or better for 78% of State, short or very short for 22%, mostly west and northwest. Estimated average starting date of fieldwork April 19. Cattle and sheep mostly good condition, some losses due to scours. Calving 48% complete, lambing 64% complete.

OHIO: Temperatures again this week averaged below seasonal levels. Readings in the northwest were 2 to 3° cooler than usual. Other areas 4 to 6° below normal with few locations 6 to 8° below normal. Precipitation was widespread, but totals were generally light in the northwest and north central sections of the State. Eastern sections averaged from 0.50 to 1.50 in. Four in. bare soil temperature ranged from the middle 30's northeast to the upper 30's south and southwest.

Fields and pastures remain very wet. Pastures very slow in greening. Hay being fed much later in year than normal, scarce in a few local areas. Calving conditions poor, due to very muddy corrals. Wheat in stress on heavy slow-draining soils. Topdressing of wheat by airplanes in a few areas.

OKLAHOMA: Temperatures averaged from 4° below normal southeast to 10° below normal west central. Average precipitation ranged 0.56 in. south central to 1.85 in. southeast.

Cool, wet continued to delay growth of wheat and other small grains. Topdressing and weed control hampered by wet fields. Warmer weather weeded for proper development. Broadleaf weeds prolific in west. Wheat in good condition, pastures in fair condition, and livestock in good to fair condition. Although moisture adequate, considerable wheat pasture short since cool temperatures retarded growth. Wheat jointing: 25%; 35% 1983; 35% average.

OREGON: Slightly cooler temperatures throughout State; average temperatures 2° below normal in central and eastern area. Western areas averaged 2° above normal. Precipitation ranged from 1.00 to 2.00 in. west of Cascades and from 0.50 to 1.00 in. eastward.

Winter wheat in good condition, except in isolated areas with winterkill in east or with root rot in west. Spring grain seeding started in west; proceeding in dry fields in east. Early season tree fruits beginning to bloom, about

normal as to season. Spraying and fertilizing hindered by rains. Mostly too wet for vegetable planting, although some green peas in. Potato planting continues around Hermiston-Boardman area. Livestock in good condition, calving nearly over. Pastures beginning to grow, range prospects outstanding. Although many pastures still too muddy some animals on range.

PENNSYLVANIA: Wet and rather chilly week. Early week was only period of near normal temperatures. Precipitation was heavy over eastern two thirds of the State. This came in form of rain, sleet, and snow during latter week. Snow depths across the State ranged from 3 to 5 in. in southern sections to over 2 ft. in isolated areas in the northeast. Water equivalent amounts were heaviest in the eastern counties and ranged from 2.00 in. to over 3.00 in. in the lower Susquehanna Valley.

PUERTO RICO: Island average rainfall 0.25 in. or 0.32 in. below normal. Highest weekly total 1.58 in. Highest 24-hour total 1.38 in. Temperature averaged about 80 to 77° on coasts and 74 to 72° interior divisions. Mean station temperature ranged from 82.2 to 66.1°. Extremes 94 and 52°.

SOUTH CAROLINA: Warm and humid first with damaging hail and windstorms 28th. The most severe tornado in many years passed from west central through northeast, extensively damaging homes, trees, crops, etc. along a swath from one-half to two miles wide. The last part of week cooler than usual. Scattered frost reported Upstate. Rainfall moderate to locally heavy, midweek.

Soil moisture adequate to surplus. There were 1.8 days available for outdoor work, largely clearing storm debris. Corn, tobacco, vegetable planting held back. Corn fair to good condition; 19% planted ahead of last year's slow 5% pace but behind the 35% average. Cotton not planted this early. Tobacco plants plentiful, growing well toward oversize; transplanting at 4% ahead of 1983, average. Crop fair to good. Peach condition good statewide, damage minimal. Tomato transplanting at 63%, 76% in 1983, average; good to excellent condition. Watermelons 33% planted, 25% year ago, 39% average, some damaged by high winds, blowing sand; condition fair to good. Wheat and oats 1% headed earlier than 1983, average; all small grain conditions fair to good in spite of spotty leaching of nutrients due to excessive rains.

SOUTH DAKOTA: Average temperatures within 4° of normal. Extremes 68 and -5°. Outside of the Black Hills the low was 14°. The entire State received some precipitation during the week.

Calving nearly complete. Lambing continues. Cold, wet weather keeping farmers out of the fields.

TENNESSEE: Cool, wet weather prevailed as a low pressure system moved across the State on the 27th and 28th. Most of the precipitation received occurred in association with the low pressure front and midweek totals ranged from 0.90 in. (northwest and northeast) to 2.00 in. (southwest and southeast). Light rain in the west on the 31st totaled less than 0.10 in. Temperatures began the week near normal then turned cooler towards weekend. Low 70's in the middle and west sections of the State on the 26th and 27th were followed by upper 20's in the middle and east on the 31st.

Rains limited fieldwork to 1.1 day. Soil moisture 2% short, 28% adequate, 70% surplus.

Tobacco beds seeded 67%, 6 days behind 1983 and average. Wheat condition 6% poor, 75% fair, 19% good. Pasture condition 20% poor, 65% fair, 15% good. Fruits and vegetables reported in good condition. Livestock in fair condition.

TEXAS: Major storm system through Texas late 26th through late 27th, producing only significant rain. Rain heaviest northeast Texas. High pressure dominated weather until 1st. On 1st some scattered light rain fell. Temperatures averaged below normal. Precipitation was below normal.

Crops: Most State windy, dry conditions during week, exceptions Plains, snow, rain, accompanied winds; northern Blacklands, rain. Land preparation virtually complete Plains, planting begin milder conditions. Most planted crops appear making good growth; additional moisture needed. Sorghum planting virtually complete Central, South Texas. Most stands good. Strong winds little effect stands. Rain further delayed completion planting northern Blackland. Planting Plains begin soon. Winds reduced soil moisture in area, so general rain needed. Corn stands look good Central, South Texas. Some fields beginning turn yellow due lack moisture; not major problem. Blacklands, additional rain further halted planting. Some fields not planted due prolonged wet ground conditions. Planting Plains would have begun limited basis past week; showers, blowing sand prevented producers entering fields. Cool weather slowed growth Cross-Timbers. Cotton making good growth Coastal Bend, Rio Grande Valley. Cultivation fields in progress Coastal Bend. Herbicide application cotton fields in the Cross-Timbers and Plains almost complete. Cotton planting Central Texas started limited basis. Pre-plant moisture problem dryland areas unless rain. Small grains good progress throughout week despite lack of moisture. Wheat, oats started heading out Central Texas. Some fields milk stage. Good rain greatly increase head weights. Irrigated wheat High Plains continues look excellent, provide good grazing. Light amounts snow, rain may have saved dryland fields. Plains dryland wheat fields damaged recent windy weather. Wheat boot stage portions East Texas. Statewide wheat condition 68% of normal, compared with 86% a year ago. Current reported conditions 5% excellent; 30% good; 55% fair; and 10% poor. Rice planting picked up pace fields where weather permitted. Wet fields held up planting other areas Gulf Coast. Sugarcane harvest Rio Grande Valley complete early April. December freezes halted production, harvest prematurely.

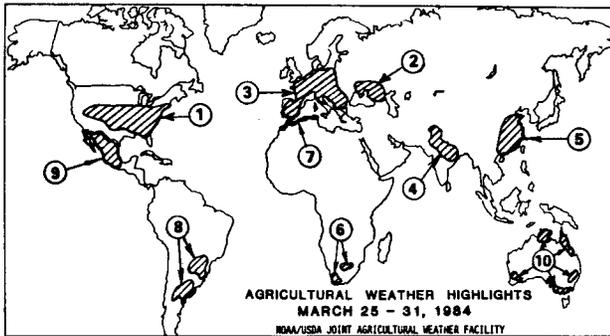
Cotton planted 7% 1984, 5% 1983, 9% average. Rice planted 26% 1984, 11% 1983, 26% average. Sorghum planted all purposes 45% 1984, 49% 1983, 50% average. Corn planted for all purposes 55% 1984, 41% 1983, 37% average. Peanuts planted 1% 1984, 1% 1983, 2% average. Sugarbeets planted 18% 1984, 16% 1983, 32% average.

Commercial vegetables: Rio Grande Valley, vegetables doing well. Harvest cabbage, carrots winding down, light volumes reported. Citrus trees continue bud. San Antonio-Winter Garden, most vegetables making good growth. Cabbage harvest continues, carrot harvest winds down. Some watermelons up good stands. Onions doing well; yields low. Potato progress slow. East Texas, vegetable planting active more favorable weather. Watermelon planting begin soon. High Plains, direct seeding onions continued after recent wind, sand storm. Potato, onion transplants delayed by sand. Summer onion production below normal, due transplant shortages. Peach trees Cross-Timbers dropped most petals, good crop set resulted. Other areas

(continued on p. 19)

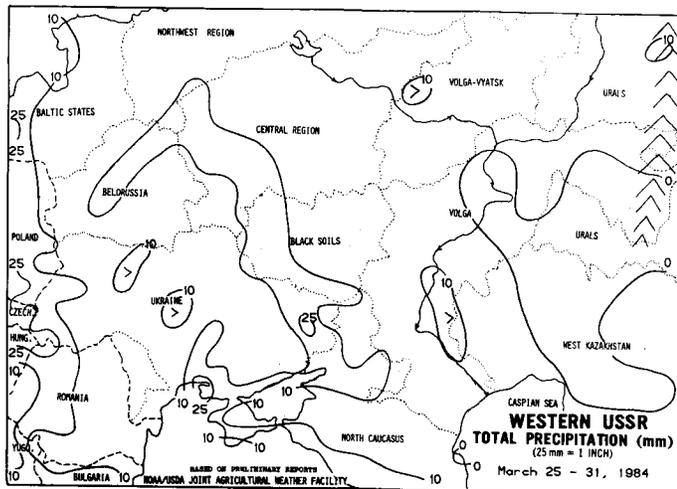
International Weather and Crop Summary

March 25 to 31

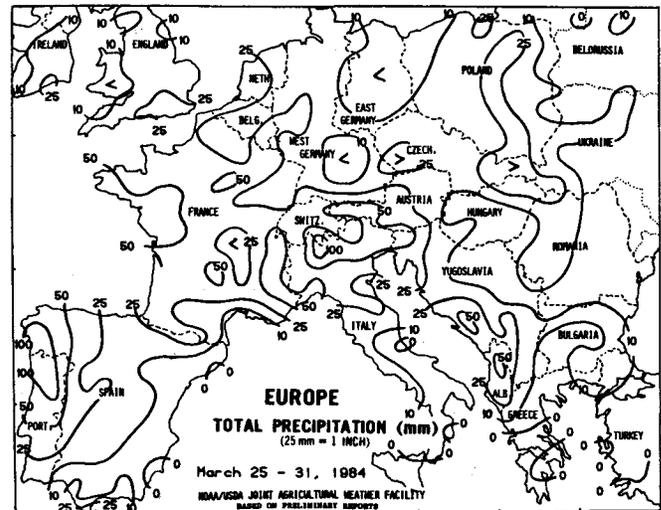


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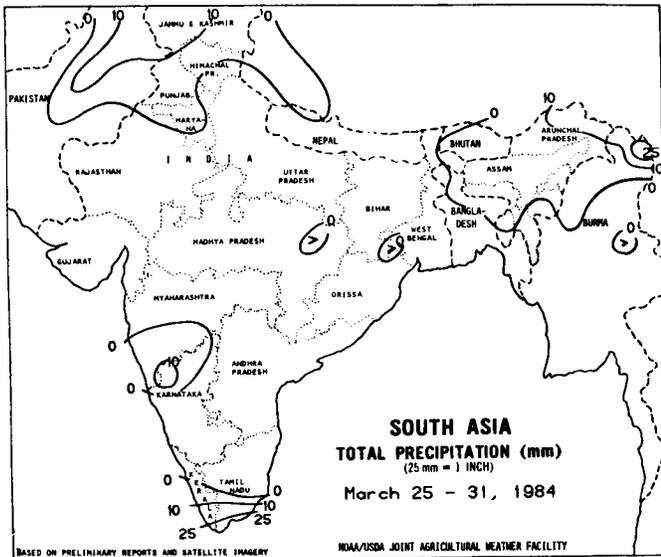
1. UNITED STATES ... Heavy rain along the east coast to the Mississippi Delta halts planting and field activities. Devastating tornadoes roar through Georgia and the Carolinas. Unusual coolness slows the development of winter grains from the central Plains to the Northeast. Heavy snows from Nevada to Colorado increase flood potential.
2. WESTERN USSR ... Warming trends cause winter grains to break dormancy across the south. Rain is needed for early spring growth and planting in the southern Ukraine and North Caucasus.
3. EUROPE ... Wet weather covers much of the region, benefiting winter grains breaking dormancy in the west and south, but delaying sowing of early spring crops.
4. SOUTH ASIA ... Light rain falls in northern crop areas where wheat is maturing. Hot, dry weather in the remaining wheat region favors harvesting.
5. EASTERN ASIA ... Moderate to heavy rain provides moisture for early growth in most rice areas. Dryness in the north is unfavorable for early growth of winter wheat and planting of cotton.
6. SOUTH AFRICA ... Rain again interrupts corn harvesting, but the moisture is desperately needed for wheat planting.
7. NORTHWESTERN AFRICA ... Dry weather is stressing winter grains in the heading stage.
8. SOUTH AMERICA ... Heavy showers in Argentina again disrupt crop harvesting, especially in western corn, sunflower, and sorghum areas, and northern cotton areas. Wetness continues to hamper the harvest progress. In Brazil, heavy rain also delays early soybean harvesting in western Rio Grande do Sul, while mostly dry weather in Sao Paulo aids cotton harvesting.
9. MEXICO ... Extended dryness and warmer than usual temperatures stress ranges and rainfed crops.
10. AUSTRALIA ... A few showers in eastern summer crop areas cause no significant problems for early harvesting. Beneficial, light, showers fall in southern wheat areas and mostly dry weather covers western areas. Tropical showers fall in the extreme north.



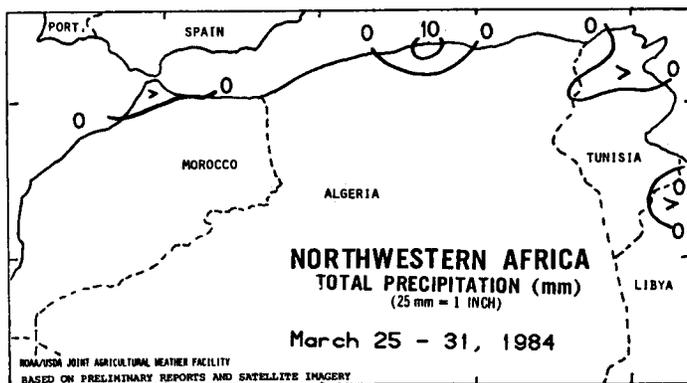
WESTERN USSR...Light precipitation fell over much of the region. The heaviest amounts of moisture (around 10 mm) covered the extreme western portion of the Ukraine, the eastern Ukraine, the western Black Soils, the western portion of the Central Region, and Belorussia. Temperatures warmed during the week. Daytime highs across the north were above freezing, reducing snow cover. In southern winter wheat areas, highs were around 20° C with nighttime lows above freezing. The warm weather is causing winter grains to lose hardiness in the north and to break dormancy in the south near normal dates. Reports indicate that early spring crops are being sown in the southern Ukraine and North Caucasus.



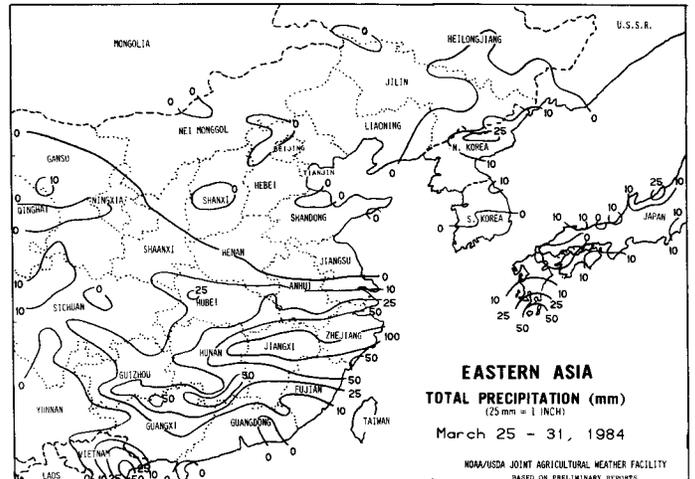
EUROPE...Wet weather covered crop areas across much of the region. The moisture which fell over the extreme west benefited winter grains which are breaking dormancy in England and France, progressing through the vegetative stage in northern Spain, and entering the heading stage in southern Spain. The precipitation in these areas likely delayed the sowing of early spring crops. Beneficial precipitation fell on winter grains in Poland, Czechoslovakia, Hungary, and northern Italy; the first significant moisture since early February. Winter grains are breaking dormancy in these areas, and the moisture is highly beneficial for early growth. Warm, moist conditions covered crop areas in the southeast, benefiting the early growth of winter grains and emergence of spring crops. Weekly temperatures were below normal in the west and above normal in the east.



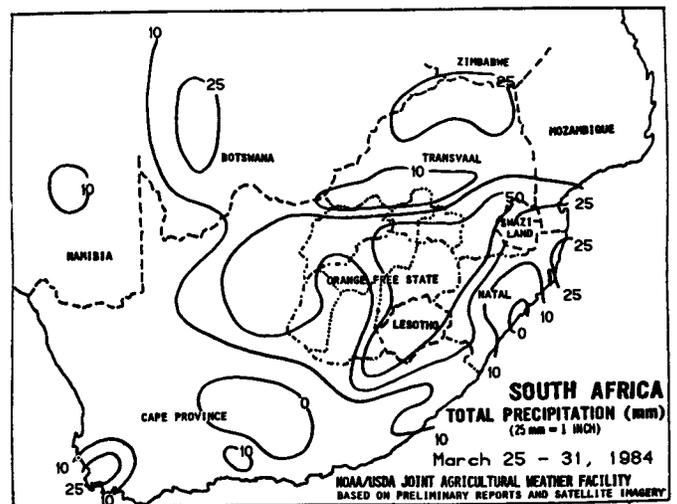
SOUTH ASIA...Most of central India remained seasonably dry this week, with only light to moderate showers reported in localized areas. Light showers fell in the northern wheat area of Pakistan at the beginning and end of the week, with mostly clear weather during midweek. The precipitation was not heavy enough to damage maturing wheat. Light rain (less than 5 mm) extended into Punjab and Haryana provinces of India. Harvesting is advancing northward but, recently, above-normal temperatures may have stressed late maturing wheat. Temperatures as high as 40°C (104°F) in central India maintained high evaporation rates. April and May are normally the hottest months in India and soils become extremely dry. Summer crop planting will coincide with the onset of monsoon rains in early June.



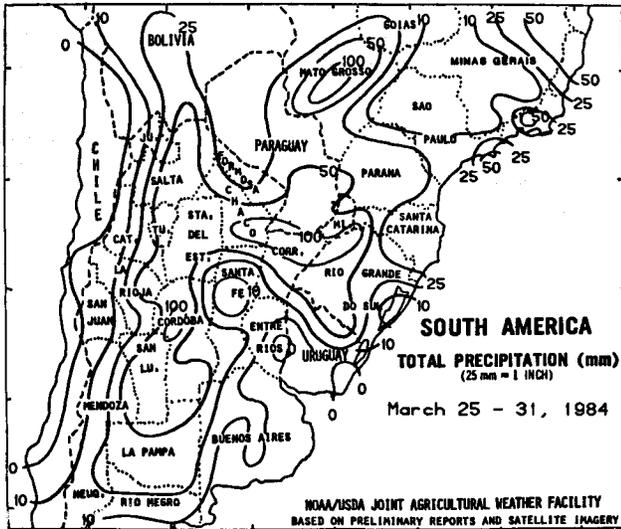
NORTHWESTERN AFRICA...Dry weather returned to winter grain areas across much of the region. Winter grains are in the moisture-sensitive heading stage and additional precipitation is needed, particularly in Morocco, to meet the crop's high moisture requirements. Weather conditions since planting have been favorable for crop growth in eastern Algeria and northern Tunisia, but winter grains in Morocco and western Algeria were stressed by unfavorable dryness during the vegetative growth stage.



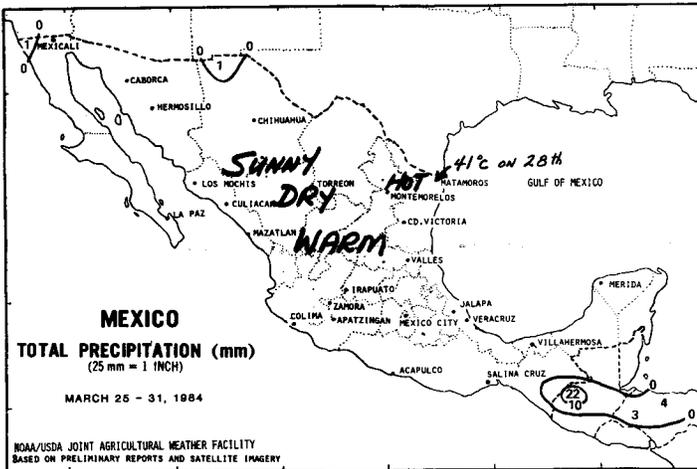
EASTERN ASIA...Moderate to very heavy precipitation fell in southern China, while mostly dry weather persisted in the north. A band of heavy rain, as much as 170 mm, stretched along the lower Yangtze Valley through Hunan, Jiangxi, and Zhejiang, possibly interrupting rice planting. Lighter amounts covered the remaining rice regions, favoring vegetative growth of the early rice crop. Intermediate rice planting is beginning with favorable moisture in Sichuan, the major producing province. Cotton planting is underway in the Yangtze Valley where sufficient moisture exists. Warming temperatures and dry weather in the North China Plain were unfavorable for nonirrigated winter wheat, which recently broke dormancy. The dry weather in the north is also hampering cotton planting in Henan, Shandong, and Hebei.



SOUTH AFRICA...Precipitation returned to the Maize Triangle this week following moderate to heavy rain last week. Showers fell at the beginning of the week and again during the latter half of the week. The rain interrupted corn harvesting but much of the area had 3 to 4 clear days for fieldwork to progress. The precipitation during the last 2 weeks has been very timely for the wheat crop; planting normally begins in early April. The extremely dry weather earlier in the season reduced soil moisture to very low levels. The recent rains have improved conditions for planting. Additional moisture will be needed, especially in parts of the western Orange Free State, to carry the crop through the normal dry season.



SOUTH AMERICA...Locally heavy showers in Argentina during the latter half of the week continued to disrupt crop harvesting. The western half of the major corn, sorghum and sunflower area and northern cotton areas were most affected by the wetness. At week's end, fields were too wet for harvesting in western Buenos Aires, northeastern La Pampa, most of Cordoba, and northeastern Argentina. Some corn harvesting likely occurred in eastern areas where rainfall amounts were much less, but, overall, wetness continued to hinder Argentina's crop harvests. Heavy showers in southern Brazil also delayed early soybean harvesting in western Rio Grande do Sul and Santa Catarina, and in southern Mato Grosso do Sul. Weekly amounts of over 50 mm fell in these areas. Scattered showers also slowed crop harvesting in Parana where soybeans are about 45 percent harvested. Mostly dry weather aided cotton harvesting in Sao Paulo. In the major crop areas of the center-south, the soybean and cotton harvests are about 30 and 70 percent completed, respectively.



MEXICO...Sunny, warm weather continued to stress rangeland vegetation and rainfed field crops. The irrigation needs of crops have been greater than usual under this weather regime, and the rainy season does not generally begin until mid-May. Temperatures in the northeast soared into the high thirties (C) during the afternoons, and reached a scorching 41° C prior to the cold frontal passage around Matamoros on Tuesday. The unusual heat so early in the season could have severely stressed some shallow-rooted or moisture-deficient

crops. Livestock also could have suffered. Fortunately, cooler weather prevailed during the latter part of the week.

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State nearing end bloom stage. Producers spraying trees benlate. **Pecan** buds continue swell, some areas, buds broken, leafing begun. Trees sprayed most areas.
Range and livestock: Range, livestock conditions improving throughout State. Irrigated wheat providing excellent grazing Plains. Heavy movement stockers this area. Pastures Central Texas, Hill Country need good rain. However, showing growth with warmer weather. Weight gains below normal, livestock reasonably good shape. Lambing, kidding drawn close. Nursing stock suffering slightly, due to limited feed. Stock tanks some water recent showers.

UTAH: Precipitation moderate to heavy south central division, light to moderate rest of State. Maximum temperatures average 5° below normal, ranging 9° below to 2° above. Minimums averaged 2° below normal, ranging 8° below to 3° above.
 Heavy snow in southern section, halted land preparation in progress. Stockmen take steps to protect newly arrived lambs and calves on open ranges. Winter wheat fields greening up.

VIRGINIA: Wet weather prevailed during weekdays but weekend dry. Rainfall totals in excess of 3.00 in. were widespread with severe weather on 28th. Numerous reports of damaging hail from central and Tidewater areas and a couple of tornadoes were reported in Tidewater areas. Temperatures averaged near normal.
 Heavy rains pushed topsoil moisture to 89% surplus, 11% adequate and decreased days suitable for fieldwork to less than 1.0. Fieldwork very slow and behind schedule. Limited application of fertilizer, lime, herbicides and some overseeding of hay and pastures. Potato seeding 48% complete, 33% last year, 45% average. Corn seeding less than 0.1% 0.5% last year, 2.0% average. Tobacco seed beds 87% seeded and in good to excellent condition in all areas but south central where rated fair to good. Fruit trees rated in good to excellent condition. Barley and wheat condition good. Livestock feeder sales starting.

WASHINGTON: Rain late 27th, through most of 28th. Pacific marine air during the week generally mild; average temperatures near to a little above seasonal normal. Cool air did cause temperatures to fall to near or a little below freezing in the western portion and mostly below 30° in east on morning of 30th.
 West counties, planting cabbage, broccoli and cauliflower. Planting additional strawberry acreage. Eastern counties, winter wheat in good condition most areas. Spring wheat, barley and potato planting. Stringing hops. Farm activities include spraying, fertilizing. Apricots full bloom. Asparagus harvest underway. Calving and lambing.

WEST VIRGINIA: Temperatures averaged 2 to 3° below normal across the State except for the northeastern section where temperatures averaged 5° below normal. Precipitation was well above normal over the State with the southwest reporting 0.50 in. above normal and the northeast 2.75 in. over normal amounts. Martinsburg received the greatest amount of precipitation in the State with a total of 4.43 in.

(continued on back cover)



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(continued from p. 11)
the Sacramento and San Joaquin Valleys. Early cantaloup fields were blooming and setting fruit in the desert area. Producers harvested good volumes of asparagus, broccoli, cauliflower, and celery. Lettuce harvesting was heavy in the San Joaquin Valley, but was very light along the central coast.

PASTURES AND LIVESTOCK: Pastures across the South were rated mostly fair. Conditions continued to improve because of good soil moisture, but cool temperatures limited potential growth. Livestock continued receiving supplemental feed because of the continuing muddy conditions. Calving and lambing continued active across the Nation with less than ideal conditions. Livestock were in mostly fair to good condition.

(continued from p. 19)

Soil moisture surplus to adequate. Days suitable for fieldwork averaged 0.8. Main activity: General maintenance. Feed supplies adequate to short.

WISCONSIN: A very quiet and dry week weatherwise. Light and scattered precipitation in the form of rain was noted over the south on the 26th. Snow flurries were reported over the northwest on the 28th and 29th. Temperatures cooled around midweek as east to northeast winds

prevailed, but warming trend to early spring-like readings returned for the 31st and 1st.

Soil moisture wet or very wet around the State. In the extreme southwest, some drying of topsoil due to wind and above freezing temperatures. Frost depths becoming shallower over all but scattered parts of the north where maximum penetrations have occurred this past week. Most of the State has at least 1.00 to 6.00 in. of frost in sodded areas. Maple syrup activity continues under ideal weather conditions. Field activity has been limited to hauling manure.

WYOMING: Temperatures below normal most areas of State. Precipitation below normal central and east. Southeast above normal.

Topsoil moisture adequate statewide. Subsoil moisture adequate 89% State. Days suitable for fieldwork: 2.0. Winter wheat rated mostly fair condition, none to light wind damage and light to moderate freeze damage. Small amount of spring wheat, oats and sugarbeets planted. Barley, 5% planted; normally 26% planted. Livestock fair to good condition. Supplemental feeding still required in most areas. Spring calves born 45%. Death losses light to normal, some heavy. Farm flock: Ewes lambed, 45%; shorn, 40%. Range sheep: Ewes lambed, 10%; shorn, 15%. Death losses also light to normal, some heavy. Range condition fair to good where observable.

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