

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

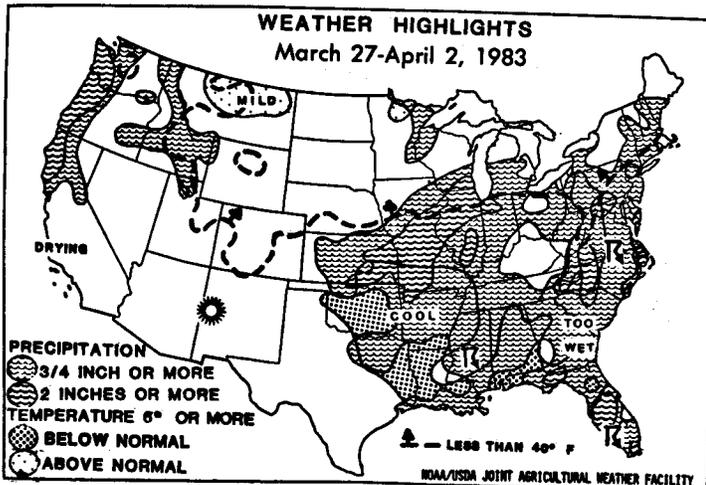
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WASHINGTON, D.C.

April 5, 1983

National Weather Summary

March 27 to April 2



A few light showers lingered in southern California and over the Plateau, but some rain fell along the coast from northern California through Washington.

TUESDAY ... A frontal system moving through the Plains triggered rain showers from eastern Oklahoma and Kansas to eastern Nebraska and eastward through Arkansas, Missouri, and southern Iowa and Illinois. Snow fell from northern Iowa and Illinois through Wisconsin, Minnesota, and the eastern Dakotas. Thunderstorms developed from eastern Texas and Oklahoma to the lower Mississippi River. A few snow flurries remained in the middle and northern Appalachians. The Pacific front kicked off heavy showers and high winds along the coast from northern California to Washington and light showers over the Plateau and to the northern Rockies.

WEDNESDAY ... Showers and thunderstorms spread over the South and Southeast to Kentucky and Virginia. Rain covered the middle Mississippi Valley, and snow fell in the upper Valley and northern Plains. Moderate showers continued along the Northwest coast and through much of Idaho. Lighter showers reached from northern California to the northern Rockies and High Plains. Strong winds blew through the mountains from Idaho and Nevada through Wyoming and Colorado.

THURSDAY ... Stormy weather in the central Plains produced showers and thunderstorms from Nevada to Missouri. Snow fell over much of Colorado, the northern Rockies, the Plains, and the northern Mississippi Valley. Heavy showers fell in central and eastern Kansas. Light showers fell along the Southeast coast while lighter showers fell inland through the Carolinas to West Virginia. Light showers fell along the Northwest coast.

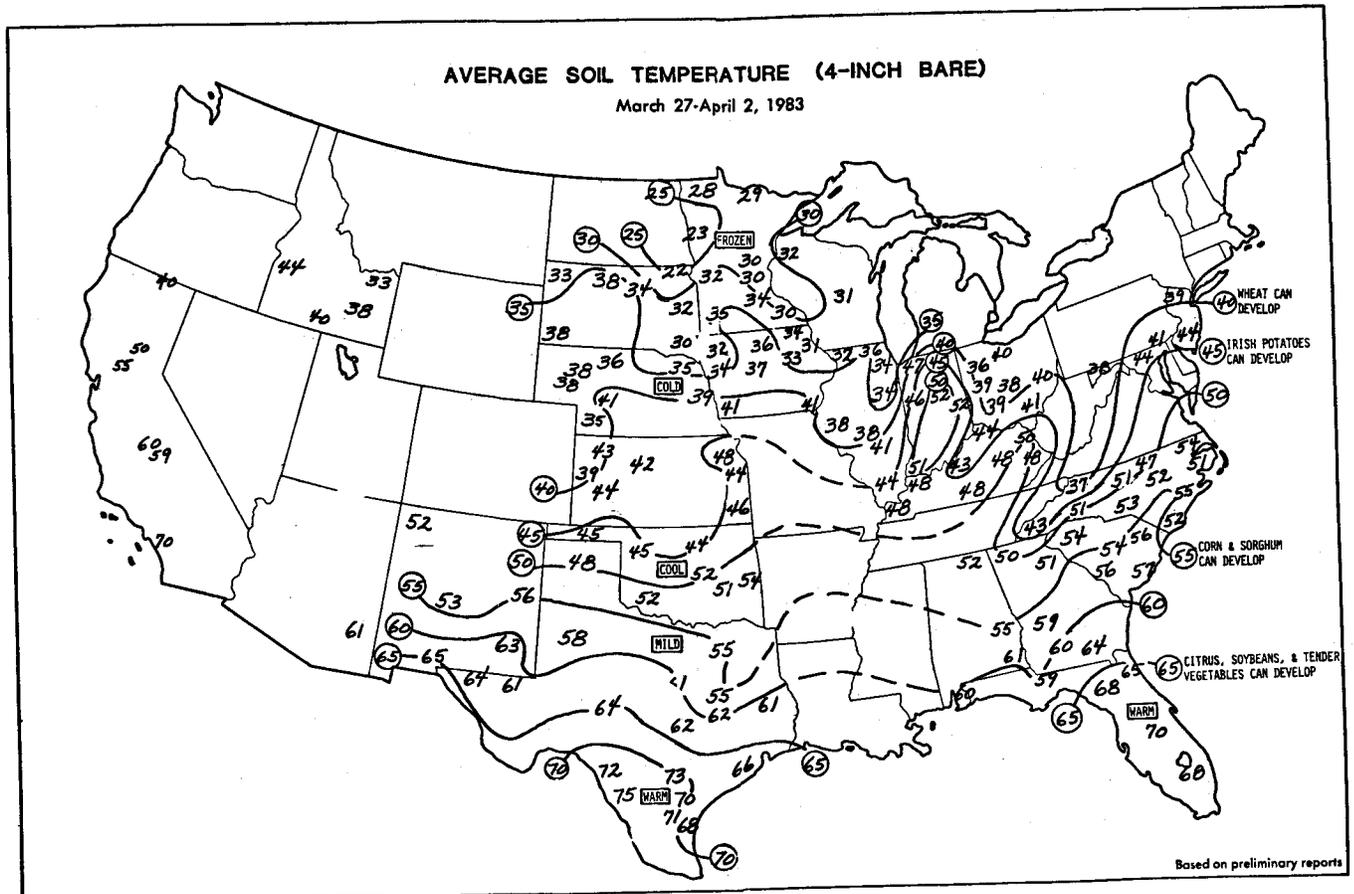
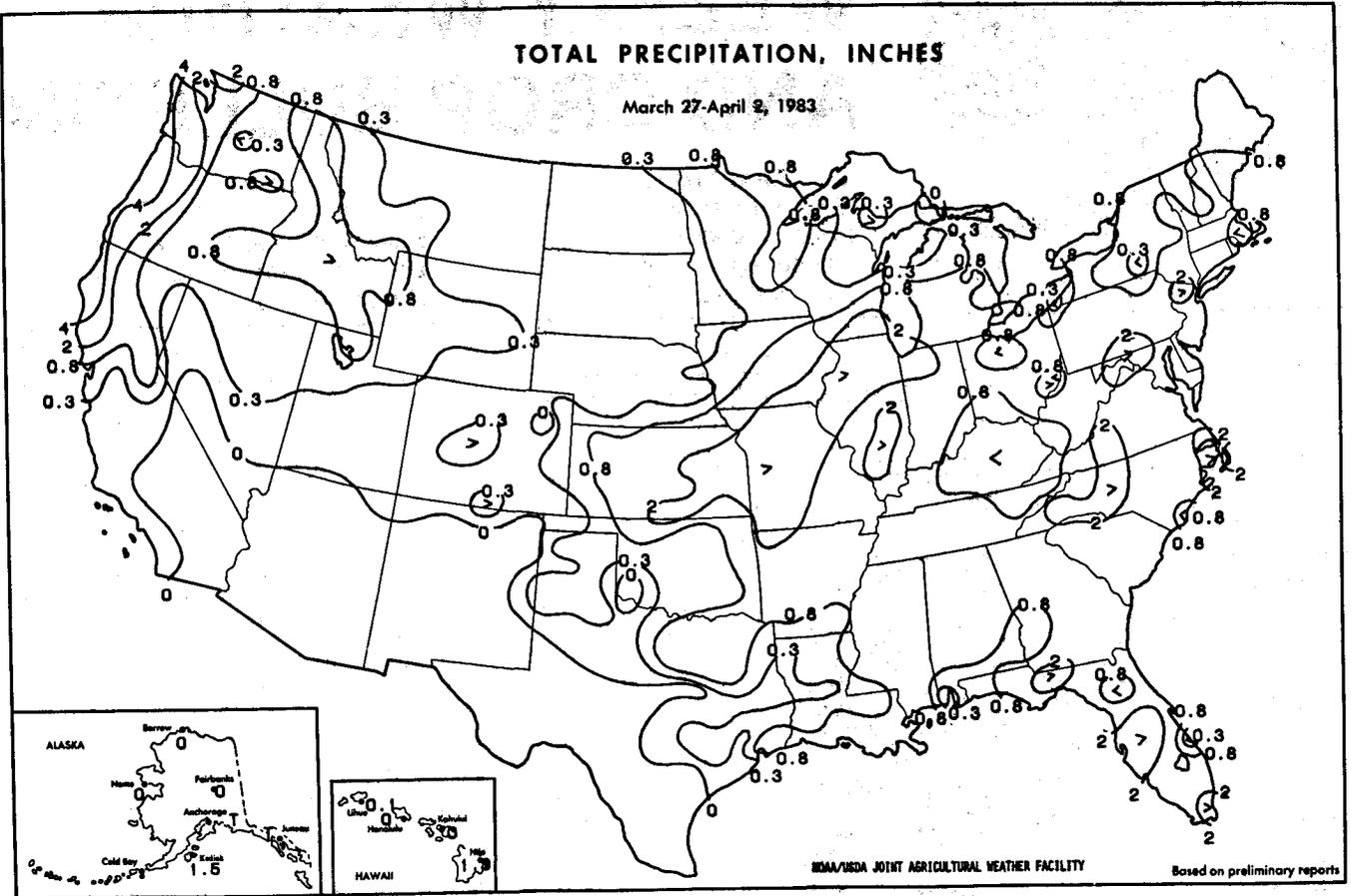
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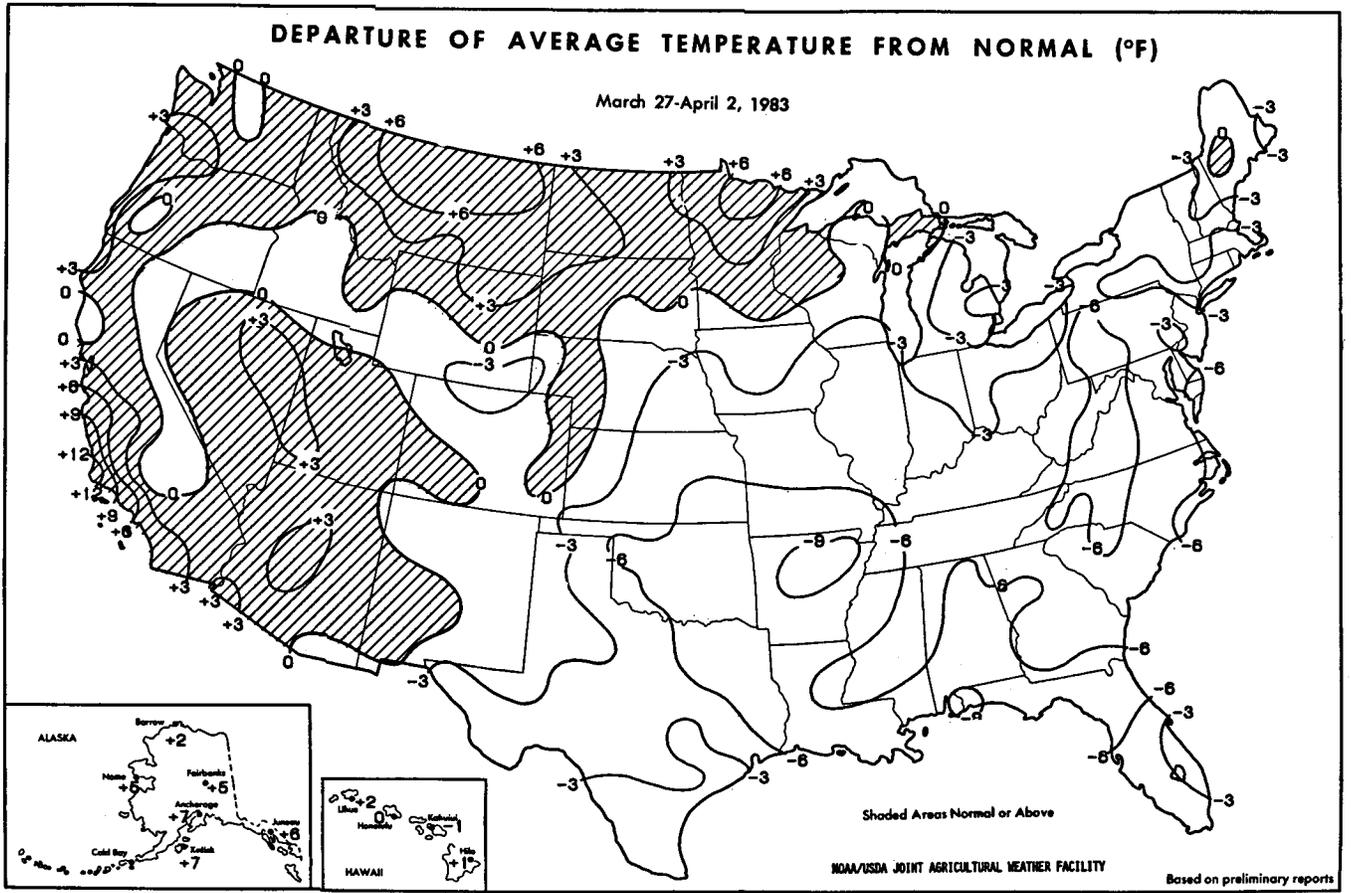
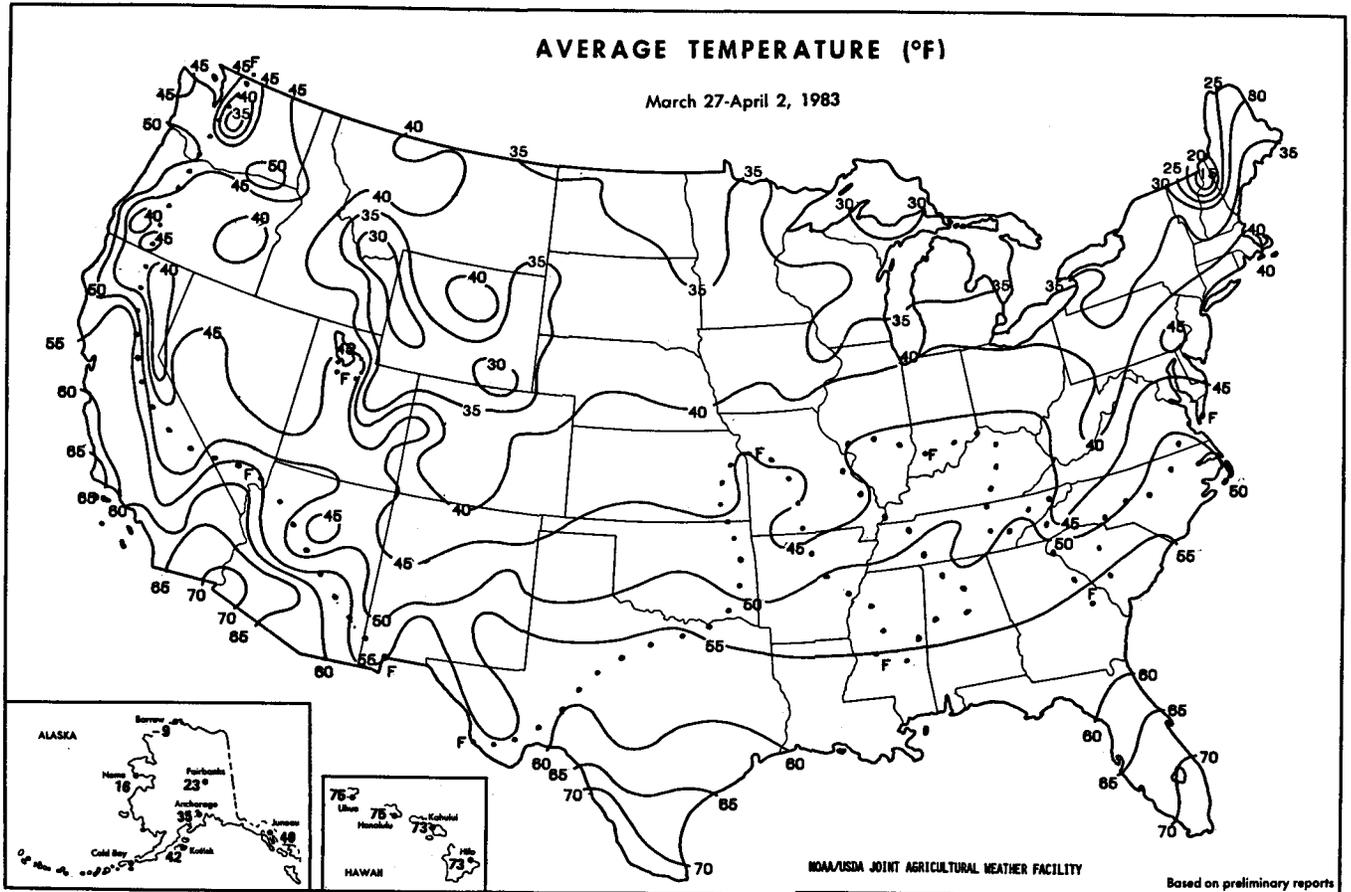
HIGHLIGHTS: Heavy rain in the West was confined to the coastal area from northern California through Washington and Oregon. Some moderate rain, with snow at higher elevations, fell in Idaho. Heavy precipitation fell from eastern Kansas to northern Illinois. Early in the week, snow fell from northern Illinois to the upper Mississippi Valley and eastward to the northern Appalachians. Rain was not as heavy in the Southeast, giving that area some respite from the wet weather. Average temperatures for the week were cooler over much of the Nation. Only the northern Plains, the Pacific coast, and the northern Rockies were warmer than normal.

SUNDAY ... Snow tapered off through the eastern portion of the central and northern Plains but continued in northern Michigan. Showers and thunderstorms reached from Missouri to the central Appalachians and through the lower Great Lakes States. Some snow fell in the northern Appalachians, but showers and thunderstorms covered Florida and parts of Georgia and moved through the East Coast States from South Carolina to eastern Maine. A Pacific storm spread showers all along the California coast and from central California over the central Plateau and through the Northwest to the northern Rockies.

MONDAY ... Precipitation covered the northeastern quarter of the Nation. The precipitation began as snow from western Pennsylvania through eastern New York and New England. Drizzle and light rain fell from West Virginia to Maine, and showers covered the Northeast coast. A weak storm in the central Rockies caused snow showers over the northern and central Rockies and, late in the day, rainshowers in the central Plains and light snow in the Dakotas.

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Weather Data for the Week Ending April 2, 1983

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 Feb. 27	PCT. NORMAL SINCE Feb. 27	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	61	42	73	31	51	-7	1.3	-.1	.7	7.6	104	18.8	110	91	43	0	1	3	2		
MOBILE	66	45	74	38	56	-8	.4	-1.0	.3	9.8	129	24.7	146	91	42	0	0	2	0		
MONTGOMERY	65	43	76	35	54	-7	1.0	-.2	.8	10.8	161	23.6	156	88	44	0	0	2	1		
AK ANCHORAGE	43	26	46	24	35	7	T	-.1	T	0	0	.5	21	74	43	0	7	0	0		
BARROW	-4	-15	0	-20	-9	2	0	-.1	0	0	0	.1	11	84	72	0	7	0	0		
FAIRBANKS	34	11	42	7	23	5	0	-.1	0	.1	17	.5	31	52	35	0	4	0	0		
JUNEAU	47	34	54	30	40	6	.3	-.4	.1	.7	18	6.0	54	93	63	0	7	4	0		
KODIAK	46	38	48	37	42	7	1.5	.7	.7	8.7	193	25.4	180	93	75	0	0	5	1		
NOME	25	6	28	-5	16	5	0	-.1	0	.2	20	.4	15	63	31	0	7	0	0		
AZ PHOENIX	80	53	90	49	67	3	0	-.1	0	3.1	344	5.0	217	65	17	1	0	0	0		
PRESCOTT	62	36	69	32	49	3	0	-.3	0	3.0	214	4.5	107	76	30	0	1	0	0		
TUCSON	76	46	83	40	61	0	0	-.1	0	1.3	186	4.0	182	63	16	0	0	0	0		
YUMA	86	58	93	52	72	5	0	0	0	.2	100	1.0	125	47	16	2	0	0	0		
AR FORT SMITH	58	40	74	37	49	-6	.8	-.1	.6	2.6	62	5.7	60	87	54	0	0	4	1		
LITTLE ROCK	57	39	68	36	48	-9	1.5	-.3	.7	4.9	84	8.8	63	86	64	0	0	4	2		
CA BAKERSFIELD	69	46	77	42	58	-2	T	-.2	T	2.5	250	5.8	215	93	42	0	0	0	0		
EUREKA	58	46	61	42	52	3	4.5	3.5	2.0	11.2	204	28.2	159	90	68	0	0	7	2		
FRESNO	68	49	75	45	59	2	.1	-.3	.1	5.4	284	13.5	255	92	42	0	0	2	0		
LOS ANGELES	68	53	77	50	60	2	.1	-.2	.1	7.5	375	17.3	251	87	46	0	0	2	0		
RED BLUFF	63	48	70	44	55	0	1.0	-.6	.8	11.6	430	24.8	248	84	52	0	0	5	1		
SACRAMENTO	64	46	69	42	55	0	.2	-.2	.2	7.9	316	17.2	200	95	50	0	0	1	0		
SAN DIEGO	71	57	80	47	64	4	.1	-.2	.1	7.2	424	12.5	250	85	51	0	0	1	0		
SAN FRANCISCO	62	50	67	45	56	3	.7	-.2	.5	9.7	323	22.5	223	85	55	0	0	5	1		
CO DENVER	52	28	67	24	40	-2	.2	-.2	-.1	4.6	307	4.8	192	84	33	0	7	3	0		
GRAND JUNCTION	57	36	66	30	47	1	.1	-.1	T	1.7	213	2.9	138	88	34	0	2	3	0		
PUEBLO	60	27	74	20	43	-1	T	-.2	T	2.1	210	2.7	169	87	27	0	5	1	0		
CT BRIDGEPORT	48	33	57	27	41	-2	1.1	-.2	-.1	5.4	132	11.5	121	70	37	0	4	1	0		
HARTFORD	49	28	58	23	39	-3	1.4	-.4	1.0	6.6	147	15.2	141	60	30	0	5	2	1		
DC WASHINGTON	53	37	60	29	45	-6	1.6	-.8	.9	5.5	145	10.5	118	75	39	0	1	3	2		
FL APALACHICOLA	67	50	75	43	59	-6	1.7	-.8	.9	5.6	112	14.7	129	94	54	0	0	3	2		
DAYTONA BEACH	71	52	79	43	61	-5	1.3	-.7	.8	7.8	217	16.3	192	90	51	0	0	3	1		
JACKSONVILLE	70	46	77	38	58	-7	1.2	-.4	.6	8.5	207	19.9	197	96	52	0	0	4	1		
KEY WEST	76	66	79	62	71	-5	1.0	-.7	.8	6.9	406	28.0	549	89	62	0	0	2	1		
MIAMI	79	63	83	55	71	-3	.9	-.4	.7	5.8	264	16.5	266	88	49	0	0	2	1		
ORLANDO	76	55	79	49	66	-3	2.0	1.4	1.3	6.0	162	15.9	181	94	45	0	0	3	2		
TALLAHASSEE	71	44	80	37	58	-6	2.6	1.5	1.9	14.1	217	24.0	163	93	35	0	0	4	1		
TAMPA	73	55	79	50	64	-5	3.9	3.3	2.5	8.8	215	16.9	188	97	54	0	0	4	3		
WEST PALM BEACH	78	63	84	57	71	-1	1.2	-.6	.9	6.5	191	23.8	287	89	55	0	0	3	1		
GA ATLANTA	59	41	71	35	50	-7	1.0	-.3	.5	7.5	117	15.2	103	90	44	0	0	4	1		
AUGUSTA	67	41	76	31	54	-5	1.3	-.3	.5	7.9	149	17.6	145	85	39	0	1	4	0		
MACON	68	44	75	36	56	-5	.9	-.2	.4	7.1	122	20.1	147	97	46	0	0	4	0		
SAVANNAH	68	48	79	40	58	-4	1.1	-.4	.7	9.5	207	20.2	198	87	46	0	0	3	1		
HI HILO	80	65	82	63	73	1	1.9	-.2	.8	3.3	21	4.9	13	92	56	0	0	5	2		
HONOLULU	85	65	87	63	75	0	0	-.6	0	.5	14	.8	8	85	45	0	0	0	0		
KAHULUI	86	60	88	58	73	-1	0	-.5	0	1.0	31	1.6	17	85	44	0	0	0	0		
LIHUE	81	68	82	64	75	2	.1	-.9	.1	.6	12	1.4	9	81	56	0	0	1	0		
ID BOISE	51	35	54	29	43	-1	1.2	-.9	.4	3.1	238	6.0	154	89	46	0	2	5	0		
LEWISTON	55	38	61	33	47	1	.3	-.1	.2	1.5	150	3.7	123	88	43	0	0	2	0		
POCATELLO	48	31	56	29	40	0	1.3	1.0	.5	3.2	291	4.8	166	87	46	0	4	4	1		
IL CHICAGO	44	32	49	25	38	-4	3.8	3.1	1.6	6.5	224	9.3	155	90	62	0	4	5	3		
MOLINE	44	33	48	23	39	-3	3.8	3.0	1.8	6.1	197	8.1	137	92	73	0	2	5	2		
PEORIA	46	35	50	26	41	-3	3.6	2.8	2.5	6.1	197	7.6	121	89	70	0	1	5	2		
QUINCY	45	37	50	33	41	-4	3.5	2.7	2.7	6.1	179	7.0	108	95	80	0	0	6	1		
ROCKFORD	42	31	50	22	37	-4	3.0	2.2	1.7	5.3	177	7.5	123	97	70	0	4	5	2		
SPRINGFIELD	47	36	52	29	42	-4	1.3	-.4	.5	4.4	133	5.8	87	90	65	0	3	5	1		
IN EVANSVILLE	52	40	59	36	46	-4	1.4	-.3	.5	5.2	98	7.8	66	84	61	0	0	4	2		
FORT WAYNE	49	35	59	29	42	0	1.7	-.9	.6	2.9	85	4.6	59	81	58	0	3	4	1		
INDIANAPOLIS	49	37	55	33	43	-3	1.4	-.6	.8	3.8	90	5.8	63	89	65	0	0	4	1		
SOUTH BEND	47	33	57	25	40	-2	1.9	1.0	.9	3.9	115	5.6	73	89	62	0	3	5	1		
IA DES MOINES	44	35	57	28	40	-2	1.3	-.7	.4	4.5	167	7.8	159	89	69	0	3	6	0		
SIoux CITY	43	32	58	25	37	-4	.2	-.3	.1	5.0	278	6.1	191	89	65	0	3	2	0		
WATERLOO	41	32	49	22	37	-2	1.0	-.3	.5	4.5	180	6.7	156	97	81	0	3	5	1		
KS CONCORDIA	48	34	66	25	41	-4	1.1	-.7	.6	4.0	222	6.8	219	88	60	0	3	4	1		
DODGE CITY	56	33	79	28	44	-3	.8	-.5	.6	3.4	243	5.3	212	84	42	0	4	3	1		
GOODLAND	53	31	68	25	42	0	.6	-.4	.5	2.3	209	3.4	179	90	42	0	0	3	0		
TOPEKA	52	39	72	34	45	-2	2.3	1.6	2.0	6.5	260	7.8	177	89	64	0	1	3	2		
WICHITA	51	35	63	27	43	-6	1.9	1.4	1.1	5.1	255	8.2	222	93	64	0	0	3	1		
KY BOWLING GREEN	54	39	65	37	47	-5	.7	-.5	.5	3.0	49	7.4	47	95	65	0	0	5	0		
LEXINGTON	52	39	67	33	45	-4	.3	-.7	-.1	1.6	30	4.4	36	89	56	0	0	5	0		
LOUISVILLE	52	40	64	35	46	-4	.6	-.4	.4	2.6	47	5.6	46	86	55	0	0	4	0		
LA ALEXANDRIA	68	47	75	41	58	-5	.1	-.1	.1	3.2	55	14.1	93	68	39	0	0	2	0		
BATON ROUGE	67	48	75	41	58	-7	.5	-.6	.4	6.0	107	16.2	113	84	43	0	0	2	0		
LAKE CHARLES	69	48	73	43	59	-6	.6	-.1	.6	2.9	73	12.8	104	91	48	0	0	2	1		
NEW ORLEANS	67	50	73	46	58	-7	1.5	-.6	1.3	5.3	90	21.0	140	83	48	0	0	2	1		

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

+100 = NORMAL & ACTUAL NEAR THE SAME

Weather Data for the Week Ending April 2, 1983

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 Feb. 27	PCT. NORMAL SINCE Feb. 27	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	
ME SHREVEPORT	68	43	79	35	55	-6	.3	.7	.2	3.7	82	14.7	125	89	41	0	0	2	0	
ME CARIBOU	36	19	39	9	27	-3	.5	.1	.5	3.6	138	8.2	121	79	53	0	7	3	0	
ME PORTLAND	45	26	53	20	35	-2	1.3	.4	1.3	9.6	229	18.1	169	78	34	0	7	1	1	
MD BALTIMORE	52	33	59	25	43	-6	2.0	1.2	1.2	7.5	188	14.6	152	80	38	0	3	3	2	
MD SALISBURY	53	34	58	28	43	-5	1.6	.7	1.5	7.6	165	12.7	113	93	47	0	3	3	1	
MA BOSTON	48	32	61	26	40	-3	.8	.1	.6	9.7	211	19.7	170	74	33	0	4	2	1	
MA CHATHAM	44	32	49	26	38	-3	1.7	.8	1.1	11.1	-	20.4	-	83	53	0	5	4	1	
MI ALPENA	38	22	44	11	30	-3	.6	.1	.4	3.2	145	6.5	123	95	50	0	6	2	0	
MI DETROIT	46	29	55	20	38	-3	1.1	.4	.5	2.5	83	4.1	63	83	47	0	5	3	2	
MI FLINT	44	30	53	22	37	-1	.8	.2	.3	2.8	117	4.8	81	84	46	0	5	3	0	
MI GRAND RAPIDS	42	27	50	22	35	-4	1.6	.9	.9	4.3	154	6.9	111	78	46	0	5	3	1	
MI HOUGHTON LAKE	39	23	47	13	31	-3	.3	.2	.2	3.1	155	5.2	108	89	47	0	7	2	0	
MI LANSING	43	27	51	21	35	-4	1.1	.5	.5	3.8	136	5.6	88	91	51	0	6	3	1	
MI MARQUETTE	35	20	41	-5	27	-2	.5	.3	.5	5.0	172	10.9	170	94	58	0	7	2	0	
MI MUSKOGON	43	29	52	22	36	-3	1.5	.8	.9	3.7	128	6.0	88	81	42	0	5	4	1	
MN SAULT STE. MARIE	41	22	52	9	32	1	0	.5	0	2.8	133	6.1	109	75	34	0	7	0	0	
MN ALEXANDRIA	41	30	48	23	35	3	1.4	0	.2	1.8	129	2.9	112	99	72	0	4	3	0	
MN DULUTH	34	26	39	19	30	1	0.0	.5	.3	2.4	133	4.2	111	97	70	0	7	5	0	
MN INT'L FALLS	41	29	46	21	35	7	.8	.5	.4	1.5	115	2.6	96	93	61	0	5	4	0	
MN MINNEAPOLIS	42	31	49	21	36	0	.9	.5	.5	3.3	174	5.1	159	99	71	0	4	5	0	
MN ROCHESTER	39	30	47	22	35	-1	.5	0	.2	2.0	105	4.0	129	93	75	0	4	5	0	
MS GREENWOOD	61	45	70	36	53	-6	1.4	0	1.3	5.4	79	16.7	103	83	47	0	0	3	1	
MS JACKSON	66	44	75	31	55	-5	1.0	.4	1.0	7.7	115	21.8	141	95	41	0	1	1	1	
MS MERIDIAN	67	44	77	33	55	-5	1.6	.1	1.5	9.9	134	22.2	136	95	40	0	0	2	1	
MO CAPE GIRARDEAU	52	41	60	37	46	-1	.9	.2	.5	3.5	74	4.9	44	44	71	0	0	4	1	
MO COLUMBIA	49	38	63	31	44	-4	3.0	2.2	2.5	5.6	170	6.4	100	98	77	0	1	6	1	
MO KANSAS CITY	49	37	67	30	43	-5	2.3	1.6	1.7	5.0	179	6.2	119	97	69	0	1	5	1	
MO SAINT LOUIS	50	39	57	35	45	-5	1.7	.9	1.2	4.8	141	6.5	92	99	74	0	0	5	1	
MO SPRINGFIELD	51	38	69	34	45	-5	3.2	2.3	1.9	5.4	150	6.7	91	85	61	0	0	5	2	
MT BILLINGS	51	28	56	16	39	1	.1	.2	.1	.7	58	1.1	44	85	33	0	6	1	0	
MT GLASGOW	50	29	59	24	39	6	T	.1	T	.6	150	.8	62	82	38	0	5	1	0	
MT GREAT FALLS	52	31	57	27	42	6	.1	.2	T	1.7	142	2.1	78	85	33	0	4	4	0	
MT HAVRE	54	28	60	17	41	7	.1	.1	.1	.6	86	1.0	59	87	30	0	6	1	0	
MT HELENA	52	30	59	22	41	5	.3	.1	.1	.6	86	1.0	67	85	33	0	4	4	0	
MT KALISPELL	49	31	54	24	40	4	.7	.5	.3	1.8	200	3.7	112	96	54	0	5	6	0	
MT MILES CITY	51	30	61	23	41	3	T	.2	T	.9	113	1.2	75	86	37	0	5	1	0	
MT MISSOULA	51	32	56	26	41	3	.5	.3	.2	1.4	156	2.9	107	93	44	0	4	5	0	
NE GRAND ISLAND	46	29	63	14	37	-5	.3	.1	.2	3.4	243	4.4	176	88	61	0	5	4	0	
NE LINCOLN	46	33	63	23	40	-3	.1	.4	.1	3.8	211	5.3	171	94	63	0	2	3	0	
NE NORFOLK	43	31	61	22	37	-3	.3	.1	.2	3.7	231	5.1	170	90	64	0	3	2	0	
NE NORTH PLATTE	51	28	70	19	40	-1	T	.3	T	1.6	133	2.2	105	87	41	0	5	2	0	
NE OMAHA	44	34	63	23	39	-3	.3	.3	.2	5.8	276	8.0	216	95	71	0	3	5	0	
NE SCOTTSBLUFF	50	25	65	16	37	-3	.1	.2	.1	2.0	182	2.2	138	86	37	0	7	2	0	
NE VALENTINE	47	26	64	19	37	-1	T	.3	T	1.4	156	1.5	83	80	43	0	6	1	0	
NV ELY	53	26	64	20	40	3	.3	.1	.2	1.7	170	4.1	186	94	39	0	7	4	0	
NV LAS VEGAS	73	48	81	44	60	2	0	.1	0	1.0	200	1.8	138	56	22	0	0	0	0	
NV RENO	56	34	66	25	45	2	.2	.1	.1	1.7	243	4.4	169	82	33	0	2	2	0	
NV WINNEMUCCA	53	33	68	25	43	2	.4	.2	.2	1.5	188	3.4	136	81	38	0	4	3	0	
NH CONCORD	46	23	56	16	34	-3	.7	0	.4	7.1	215	13.2	159	76	35	0	6	2	0	
NJ ATLANTIC CITY	53	32	61	24	43	-3	1.6	.7	1.4	6.0	125	11.8	102	91	44	0	4	3	1	
NM ALBUQUERQUE	66	33	76	23	49	-1	T	.1	T	.6	100	2.4	185	66	16	0	4	0	0	
NM CLOVIS	65	34	79	28	49	-2	.3	.2	.3	.7	117	2.1	150	70	22	0	4	1	0	
NM ROSWELL	73	38	85	32	56	-1	0	.1	0	.1	25	.7	70	49	16	0	1	0	0	
NY ALBANY	46	24	52	20	35	-5	.7	0	.6	5.4	169	11.1	152	82	37	0	6	2	1	
NY BINGHAMTON	43	26	53	18	35	-3	.3	.4	.2	2.5	78	6.5	84	76	35	0	6	3	0	
NY BUFFALO	44	26	53	20	35	-4	.8	.1	.4	3.5	103	6.2	70	80	35	0	7	3	0	
NY NEW YORK	52	37	58	30	44	-2	1.2	.3	1.1	8.1	180	15.2	149	67	33	0	1	2	1	
NY ROCHESTER	43	25	51	20	34	-5	.9	.3	.4	2.7	90	5.3	72	85	41	0	6	3	0	
NY SYRACUSE	44	23	55	18	34	-5	.5	.3	.2	2.4	69	5.4	62	86	41	0	6	4	0	
NC ASHEVILLE	55	35	62	30	45	-5	2.3	1.2	1.1	7.6	141	16.5	138	95	54	0	2	4	2	
NC CHARLOTTE	59	37	65	32	48	-7	2.0	1.1	.8	6.9	138	14.6	120	91	50	0	1	4	2	
NC GREENSBORO	56	38	60	29	47	-6	3.1	2.3	1.9	7.9	188	13.1	122	93	55	0	1	4	2	
NC HATTERAS	56	42	63	36	49	-6	1.9	1.1	1.4	10.9	248	27.5	220	88	52	0	0	3	2	
NC NEW BERN	61	42	68	36	52	-5	1.1	.4	.8	10.2	237	22.2	190	93	55	0	0	3	1	
NC RALEIGH	59	39	66	32	49	-5	.9	.1	.3	8.4	205	16.2	153	91	51	0	1	4	0	
NC WILMINGTON	61	42	67	38	52	-6	.8	.1	.6	9.6	209	21.8	198	95	57	0	0	3	1	
ND BISMARCK	43	28	56	23	36	2	.1	.2	T	1.8	225	2.3	121	94	59	0	6	4	0	
ND FARGO	37	31	42	28	34	2	.2	.2	.1	2.3	256	3.0	167	93	73	0	6	4	0	
ND GRAND FORKS	37	30	40	24	34	4	.2	0	.1	2.1	233	2.7	135	85	69	0	5	4	0	
ND WILLISTON	49	26	60	19	37	5	.1	.1	.1	1.1	183	1.5	100	89	45	0	6	2	0	
OH AKRON-CANTON	49	32	59	22	41	-2	1.3	.5	.9	4.1	114	7.0	83	84	41	0	4	3	1	
OH CINCINNATI	52	37	63	31	45	-2	.5	.4	.3	2.5	54	5.2	49	83	53	0	1	4	0	
OH CLEVELAND	49	32	61	23	40	-2	1.2	.4	.6	3.5	100	5.4	67	78	38	0	4	3	2	
OH COLUMBUS	52	34	64	25	43	-2	1.6	.8	.8	2.5	66	4.4	51	81	47	0	3	4	2	

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

Weather Data for the Week Ending April 2, 1983

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 Feb. 27	PCT. NORMAL SINCE Feb. 27	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
DAYTON	50	33	60	26	42	-4	.8	.1	.3	3.2	91	5.3	63	80	53	0	3	4	0
TOLEDO	46	29	57	20	38	-3	1.1	.4	.5	2.4	86	3.8	58	92	58	0	4	4	1
YOUNGSTOWN	48	30	57	21	39	-2	.8	.1	.4	2.4	105	6.2	70	83	40	0	4	3	0
OK OKLAHOMA CITY	59	38	74	29	48	-6	.4	.1	.3	2.6	118	7.1	154	91	51	0	2	2	0
TULSA	56	40	75	35	48	-7	.5	.3	.4	2.3	74	7.2	116	86	60	0	0	2	0
OR ASTORIA	55	44	59	40	50	4	4.0	2.6	1.4	9.7	124	31.9	129	92	62	0	0	7	3
BURNS	45	31	51	26	38	-1	1.2	1.1	.5	3.1	282	5.9	155	88	56	0	5	4	0
MEDFORD	55	41	59	36	48	1	1.9	1.6	.8	3.3	183	9.9	134	98	62	0	0	5	0
PENDLETON	56	40	60	35	48	1	.7	.5	.3	3.3	275	5.5	149	89	43	0	0	7	1
PORTLAND	57	45	62	42	51	3	2.6	1.9	1.7	7.2	176	21.2	154	90	62	0	0	7	3
SALEM	55	43	60	39	49	3	4.4	3.6	1.3	9.4	192	25.8	158	92	68	0	0	7	1
PA ALLENTOWN	51	30	60	25	41	-3	1.7	.7	1.3	5.8	138	11.9	121	74	30	0	6	2	0
ERIE	45	30	56	21	37	-1	.2	.5	.2	3.2	103	5.8	75	72	36	0	4	2	0
HARRISBURG	49	33	57	28	41	-5	1.5	.7	.9	5.4	142	11.0	126	77	34	0	4	2	1
PHILADELPHIA	51	34	58	26	43	-4	1.5	.6	1.1	7.0	167	13.3	140	80	40	0	2	3	1
PITTSBURGH	47	30	57	17	38	-6	1.1	.3	.8	3.8	95	6.7	74	85	37	0	4	3	1
SCRANTON	46	27	55	21	37	-5	.6	0	.5	3.3	114	6.0	87	72	37	0	6	4	0
RI PROVIDENCE	50	32	63	26	41	-1	.5	.5	.5	8.3	173	17.3	150	71	31	0	4	1	1
SC CHARLESTON	65	47	72	41	56	-4	1.8	1.0	.8	12.4	248	23.0	209	95	52	0	0	4	2
COLUMBIA	66	41	72	33	54	-5	1.4	.3	.6	8.6	159	16.6	138	91	40	0	0	4	1
FLORENCE	65	43	71	39	54	-5	1.0	.1	.6	9.9	215	18.6	181	89	50	0	0	2	1
GREENVILLE	60	39	68	32	50	-6	1.0	.2	.6	6.6	108	14.4	101	89	44	0	1	4	1
SD ABERDEEN	42	30	54	23	36	1	.2	.1	.1	2.6	260	3.0	143	92	71	0	6	3	0
HURON	45	31	62	28	38	1	.1	.2	.1	2.5	208	2.6	124	97	62	0	6	2	0
RAPID CITY	49	27	66	21	38	1	.1	.3	.1	3.3	194	4.1	124	98	72	0	6	2	0
SIoux FALLS	43	29	62	15	36	-2	.1	.3	.1	3.3	194	4.1	124	98	72	0	6	2	0
TN CHATTANOOGA	60	40	70	36	50	-4	.9	.4	.5	4.1	62	11.2	67	87	41	0	0	4	0
KNOXVILLE	60	40	71	34	50	-4	.6	.1	.3	2.3	38	6.8	45	88	47	0	0	4	0
MEMPHIS	58	42	68	32	50	-7	1.2	.1	.9	4.9	83	9.7	63	90	51	0	1	3	1
NASHVILLE	59	43	71	40	51	-3	1.4	.2	.9	4.9	83	10.4	71	83	50	0	0	3	1
TX ABILENE	71	44	87	35	57	-3	T	.3	T	1.9	173	4.2	140	78	28	0	4	1	0
AMARILLO	63	32	84	27	48	-3	.2	0	.2	1.2	150	4.2	247	84	28	0	4	1	0
AUSTIN	72	49	80	42	60	-4	.2	.2	.2	6.0	300	10.9	158	84	36	0	0	1	0
BEAUMONT	69	49	74	42	59	-6	1.1	.4	1.1	4.8	141	14.3	127	94	49	0	0	1	1
BROWNSVILLE	84	56	97	49	70	-2	0	.2	0	.6	86	4.3	123	89	33	1	0	0	0
CORPUS CHRISTI	78	52	92	44	65	-4	0	.3	0	3.0	231	7.1	148	91	42	1	0	0	0
DEL RIO	78	52	92	44	65	-4	0	.3	0	1.0	100	2.7	108	73	24	1	0	0	0
EL PASO	73	40	84	32	56	-3	0	.1	0	.4	100	1.3	118	52	17	0	0	1	1
FORT WORTH	66	44	79	35	55	-6	1.2	.5	1.2	4.4	152	8.2	119	75	42	0	0	1	0
GALVESTON	70	54	80	49	62	-3	.2	.3	.2	2.9	107	10.4	128	89	53	0	0	1	0
HOUSTON	73	48	83	39	61	-4	.2	.6	.2	4.0	121	10.0	97	86	38	0	0	1	0
LUBBOCK	71	35	86	32	53	-2	.1	.1	.1	.7	64	3.7	185	75	20	0	4	1	0
MIDLAND	74	38	90	29	56	-3	0	.1	0	.2	40	1.7	106	73	16	1	2	0	0
SAN ANGELO	74	43	90	31	58	-4	0	.3	0	1.2	109	3.7	137	78	27	1	1	0	0
SAN ANTONIO	75	48	84	39	62	-4	0	.3	T	3.8	238	6.8	136	79	33	0	0	1	0
VICTORIA	78	51	88	45	64	-2	T	.4	T	4.3	215	9.8	169	85	36	0	0	0	0
WACO	70	44	82	34	57	-5	T	.6	T	3.5	135	7.7	112	89	41	0	0	0	0
WICHITA FALLS	66	41	77	31	54	-4	.3	.3	.2	2.1	105	4.9	117	88	39	0	1	2	0
UT BLANDING	55	30	63	23	42	0	.1	.1	.1	1.9	211	5.0	179	79	42	0	6	2	0
CEDAR CITY	57	32	68	28	45	2	.1	.1	.1	1.8	150	3.7	148	73	32	0	4	1	0
SALT LAKE CITY	55	37	67	33	46	1	.7	.2	.3	4.3	205	6.8	158	81	39	0	4	4	0
VT BURLINGTON	41	23	46	16	32	-3	.6	0	.4	2.6	113	7.4	130	83	38	0	6	3	1
VA NORFOLK	56	39	68	37	47	-6	1.1	.3	.8	5.1	124	13.4	126	85	47	0	0	4	1
RICHMOND	57	39	63	33	48	-4	1.4	.6	.9	6.5	163	12.0	125	93	49	0	0	4	1
ROANOKE	51	35	60	25	43	-8	3.1	2.3	2.1	8.5	213	13.9	145	94	51	0	2	4	1
WA COLVILLE	50	35	57	30	43	2	1.3	1.0	.6	4.0	235	9.0	173	91	71	0	1	6	1
QUILLAYUTE	50	37	55	32	44	0	4.7	2.5	1.3	14.5	118	48.5	127	98	80	0	1	7	5
SEATTLE-TACOMA	53	42	57	40	47	2	1.6	.9	.5	4.5	110	16.0	117	95	65	0	0	6	1
SPOKANE	50	36	54	32	43	2	1.0	.7	.6	2.4	150	6.5	114	96	57	0	1	6	1
YAKIMA	57	37	62	30	47	2	.5	.4	.3	2.1	420	5.7	211	83	43	0	2	4	0
WV BECKLEY	48	32	57	22	40	-6	.5	.4	.3	1.9	40	3.9	35	98	65	0	3	4	1
CHARLESTON	54	36	63	26	45	-4	1.0	.1	.7	3.2	71	7.1	66	88	49	0	2	6	1
HUNTINGTON	55	39	66	32	47	-3	.6	.3	.3	2.1	46	5.4	52	90	54	0	1	5	0
PARKERSBURG	53	35	64	26	44	-4	.7	.2	.5	2.4	53	6.2	57	88	47	0	2	4	0
WI GREEN BAY	39	28	47	19	34	-2	.1	.4	.1	1.6	80	3.8	93	86	56	0	5	2	0
LA CROSSE	42	30	51	21	36	-2	.5	.1	.3	1.9	79	3.5	85	99	61	0	5	4	0
MADISON	40	29	49	16	35	-3	1.6	1.0	.9	3.9	170	6.6	150	87	64	0	4	5	2
MILWAUKEE	39	32	43	24	35	-3	3.1	2.4	2.3	6.6	244	9.6	175	90	67	0	4	5	1
WAUSAU	42	29	46	19	35	1	.3	.3	.2	1.5	68	3.6	80	90	45	0	5	2	0
CASPER	47	26	60	17	37	1	.4	.1	.3	2.3	230	3.2	168	96	44	0	6	2	0
WY CHEYENNE	42	23	51	14	33	-3	T	.2	T	2.7	245	2.7	142	88	47	0	7	1	0
LANDER	45	25	53	16	35	-1	.4	0	.3	2.1	150	2.7	108	79	41	0	7	2	0
SHERIDAN	53	25	60	16	39	3	T	.3	T	.5	38	.8	32	80	37	0	6	1	0
PR SAN JUAN	89	73	93	71	81	3	.1	.6	.1	1.5	56	2.4	27	75	44	3	0	1	0

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

March Weather and Crop Summary

WEATHER SUMMARY

HIGHLIGHTS: Most of the Nation had above-normal precipitation. California, most of the Plateau, and the central Rockies had two to three times the normal amount. Heavy snow piled up in the Cascades, the Sierras, and in other high mountain ranges. Almost daily rain seriously delayed farm work in California and damaged some crops. Abundant rain and snow through most of the Plains brought soil moisture to adequate levels. Parts of the High Plains of Montana had less than normal precipitation but enough to supply crop moisture. A large part of the Corn Belt had below-normal precipitation, but soil moisture was adequate. Heavy rains across the South and Southeast delayed fieldwork, while cool weather slowed crop development. Average temperatures for the month were near or cooler than normal from Texas to Georgia and North Carolina. All of the area to the north and the Southwest were warmer than normal -- 6 to 8° warmer along the northern border from Washington to the Great Lakes.

FIRST WEEK...As a storm moved up the east coast from the mid-Atlantic States on the first day of the month, one of the most intense Pacific storms of the season struck the west coast. Foul weather covered the entire coast, but California got the brunt of the storm. High winds and heavy rain caused flooding, erosion, and washouts. Disaster struck in southern California as several tornadoes, heavy rain, and thunderstorms caused severe property damage. The rain continued along the coast, but heavy rain and snow moved eastward. Heavy snow fell in the central Rockies as the storm reorganized and then moved onto the High Plains. Showers and thunderstorms broke out ahead of the storm from central Texas to Nebraska and eastward to the Lower Mississippi Valley. The entire Nation averaged warmer than normal.

SECOND WEEK...The intense storm in the Plains moved northward and spread light to moderate rain and snow over the central and northern Plains, the Great Lakes region, and into the Southeast. Snow fell from northern Kansas through the northern Plains as much colder air moved southward behind the storm. Later, snow covered most of the Great Lakes region, the Ohio Valley, and into the Appalachians. At midweek, a low-pressure system formed in the Southeast and spread heavy rain from Florida to Virginia and from Delaware through eastern New England. Another Pacific storm spread heavy rains along the coast from northern California through Washington. Temperatures over most of the Nation averaged warmer than normal, but the lower Mississippi Valley and the gulf coast averaged as much as 6° colder than normal.

THIRD WEEK...The same pattern repeated itself as Pacific storms brought moderate to heavy rains to the west coast and then spread light to moderate rain, snow at higher elevations, across the Plateau to the Rockies and into the Plains. Snow covered the ground from the central Rockies into the Plains from the northern Texas Panhandle to southern South Dakota and from northern Kansas and Nebraska to northern Indiana and the Great Lakes. A low-pressure system in the Gulf of Mexico spread moderate to heavy showers and thunderstorms through central Texas and Oklahoma and lighter storms eastward to Alabama. The storm deepened off the Southeast coast and dumped heavy showers over much of the Southeast and through the East Coast States to eastern New England. Freezing temperatures reached into the South to the central gulf coast. Most of the Nation had warmer than normal average temperatures. Only the gulf coast and the central Rockies were cooler than normal.

FOURTH WEEK...Moderate to heavy rain fell over the west coast and from eastern Texas to Georgia and

Florida, and through the East Coast States to New England. Heavy snow accumulated in the higher mountains of the West and more moderate amounts from the central Rockies through South Dakota and Nebraska to the western and northern Great Lakes. Heavy snow fell in parts of New England. Cold weather dipped into the South, and wet snow fell as far south as northern Alabama and Atlanta, Ga. Freezing temperatures nipped early blooming fruit trees from Arkansas to Georgia and South Carolina.

During the last 5 days of the month, heavy rain accumulated on the west coast from northern California through Washington. Lighter amounts fell in southern California and moderate snow fell on the Sierras and the higher elevations of the Plateau and Rockies. Moderate snow fell in the central and northern Rockies early in the period, but late in the week, rain and snow fell in the central Rockies and heavy rain showers covered the central Plains. Light snow early in the week from Kansas to Lake Michigan became moderate rain later in the week. Rain was not as heavy in the Southeast, but some heavy rain showers fell from western North Carolina to New Jersey. Snow fell in the Northeast as the month ended. At the end of the month, cold weather covered the Northeast, but a warming trend had begun over most of the rest of the Nation.

FIELDWORK

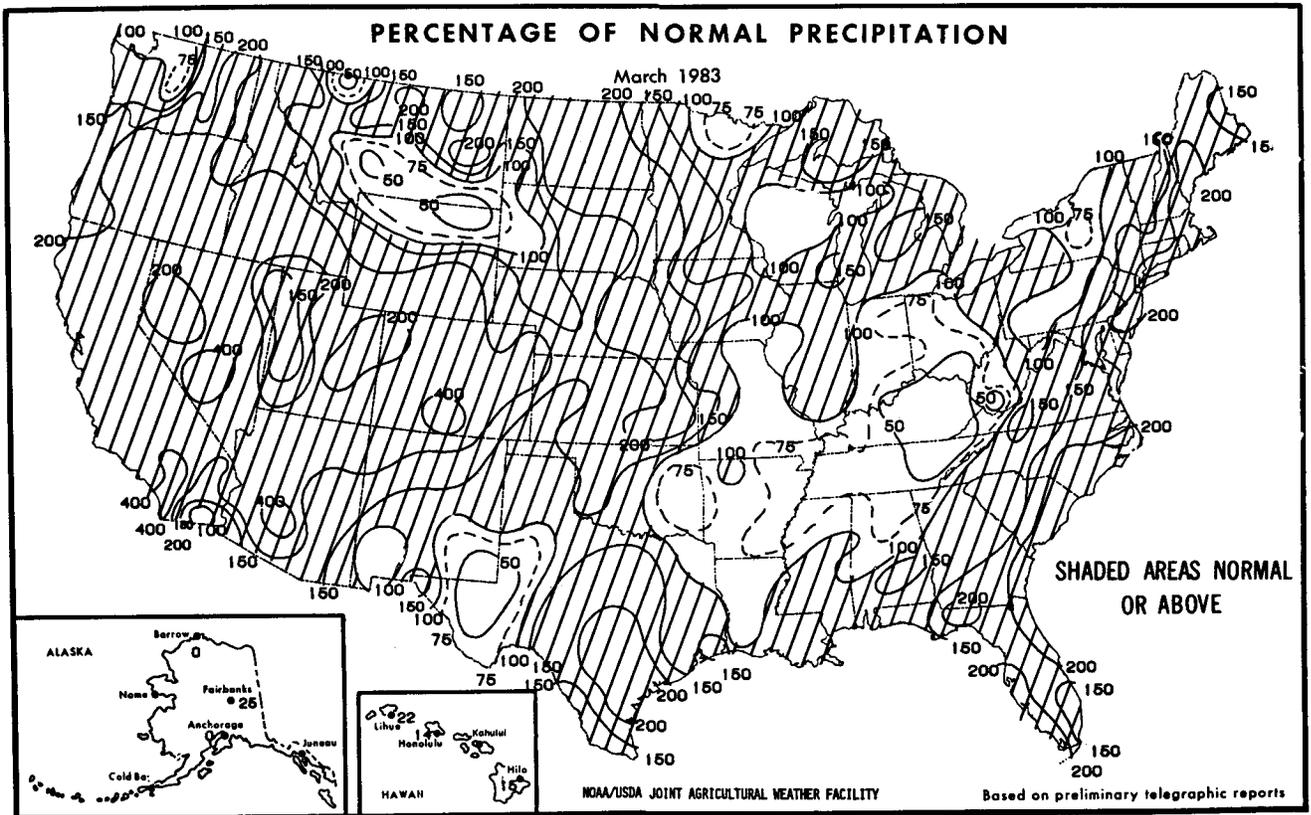
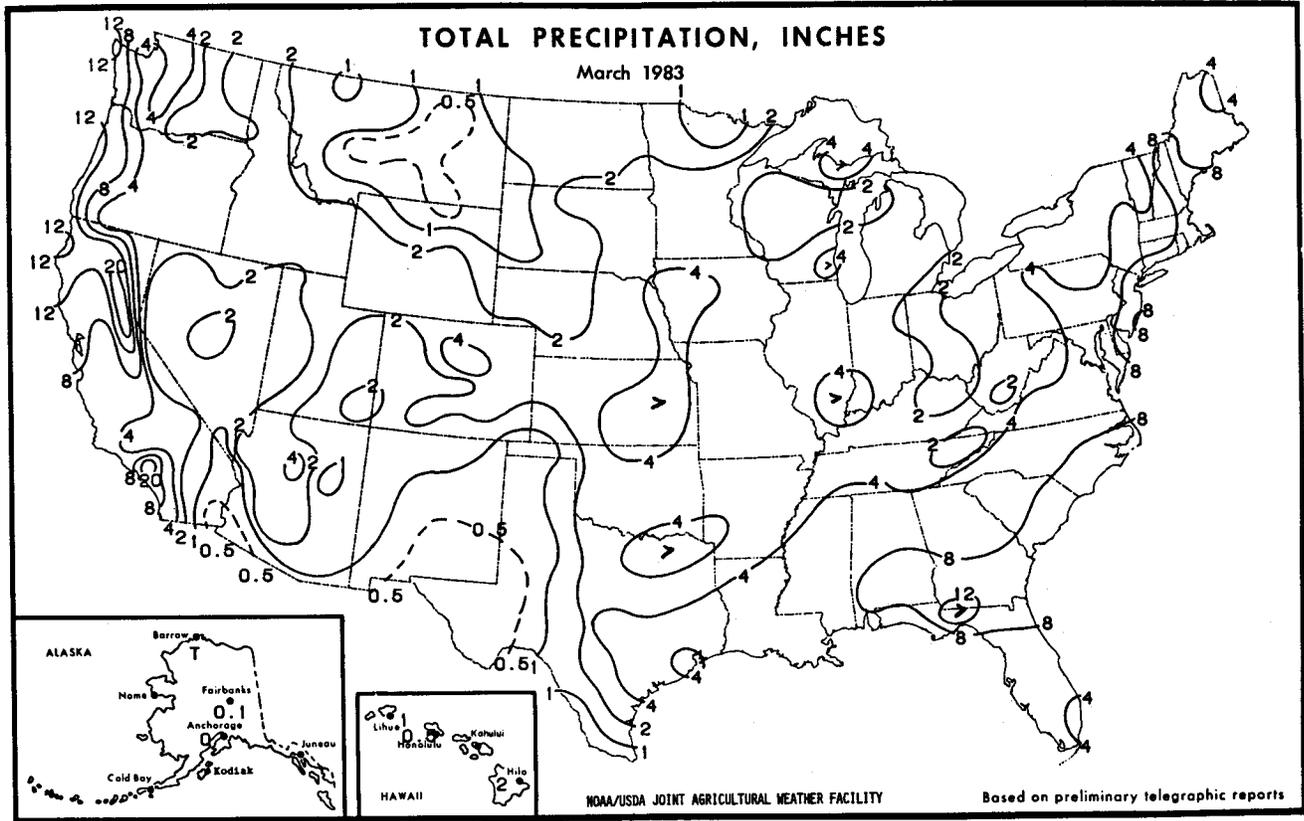
Spring fieldwork was delayed by rain and wet fields in much of the Southeast and California during March. Rain and snow at midmonth replenished soil moisture but slowed topdressing of wheat, land preparation and seeding of small grains from the central Plains through the Corn Belt. Freezing temperatures late in the month dipped southward threatening early blooming fruit trees from Virginia to northern Texas.

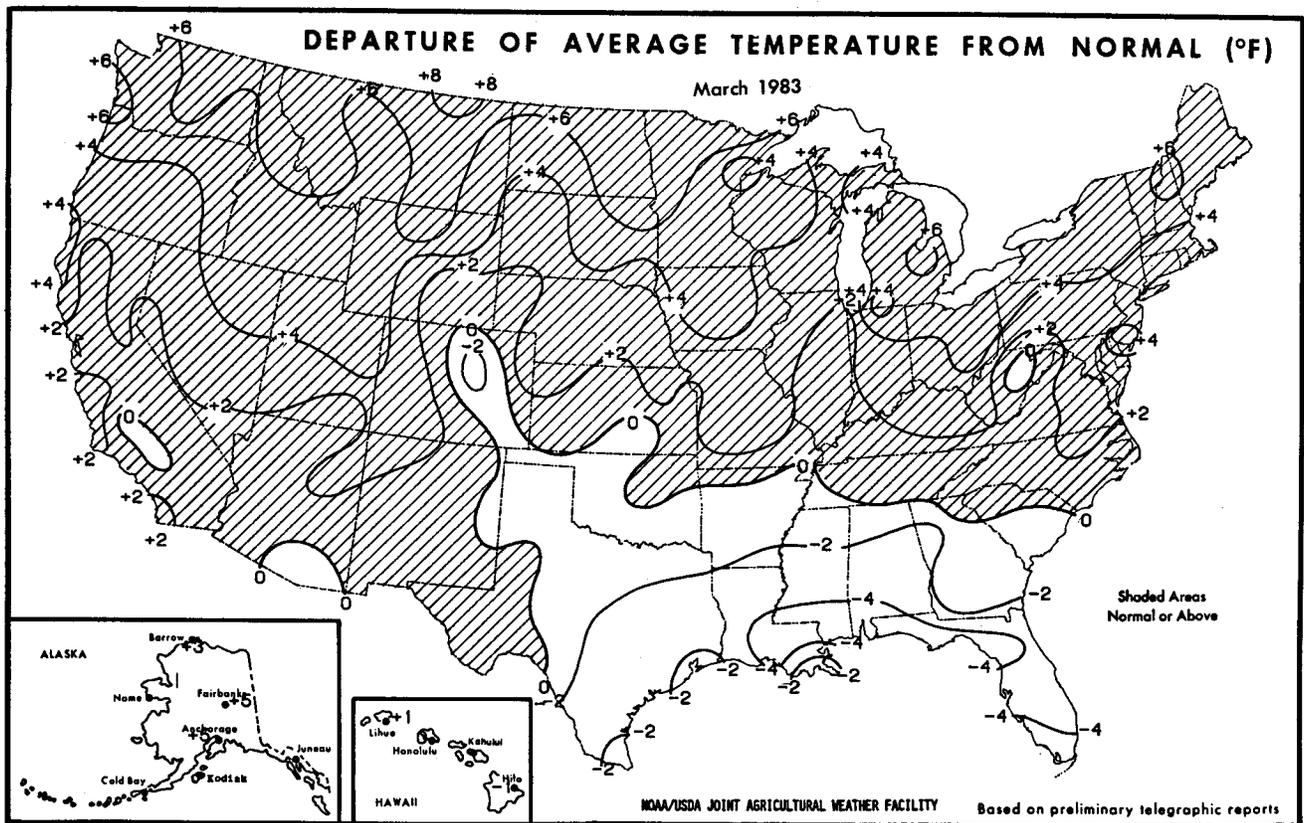
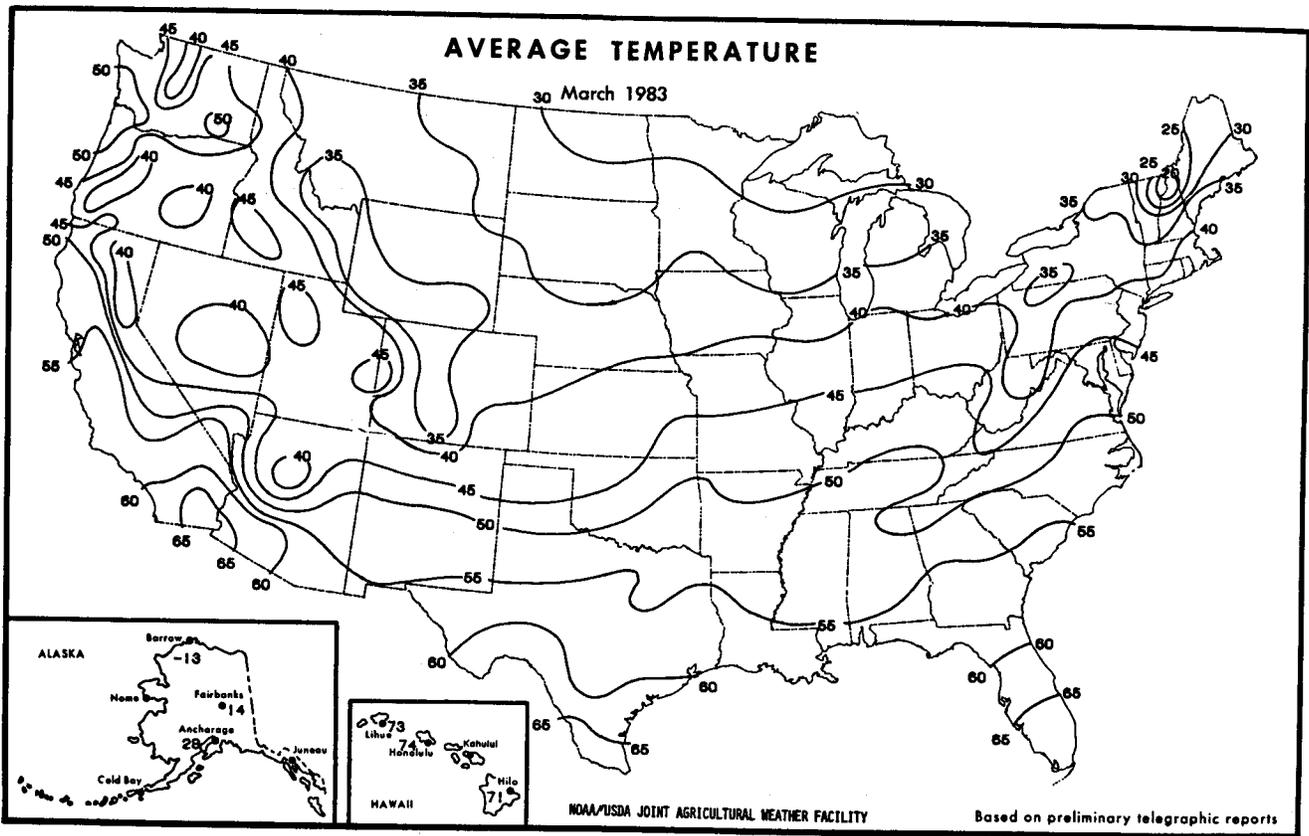
As March began, corn planting was active from Texas to Florida when field conditions permitted. By the end of the month, planting extended northward to southern Virginia; progress was well behind last year and the average. Emerged plants in extreme South were in fair condition due to wet fields. In the Corn Belt, growers prepared land for planting early in the month, but rain and snow the last half of March brought activities to a halt in many areas. Plowing was near normal as the month ended. Grain sorghum planting was centered in Texas and slightly ahead of normal at the end of the month. Cotton planting lagged normal in Texas and Arizona due to cool weather and wet fields. Preplanting activities were halted by saturated soils in California. At the end of March, rice seeding was active in Texas but wet fields delayed seedings in Louisiana and California. Tobacco growers seeded plant beds. Early seedings had emerged. Transplanting neared completion in some areas of Florida but was slowed by wet conditions in Georgia and South Carolina as March ended. Plants were in mostly fair condition. Late in the month, freezing temperatures plunged southward, threatening budding fruit trees and blooming peaches from Virginia to northern Texas. Some localized frost damage was evident, especially for varieties in more vulnerable stages of development. Georgia peach trees reached full bloom and buds were swelling as far north as New Jersey. Heavy rains delayed vegetable planting and harvesting activities throughout March in California and Florida.

WINTER WHEAT

Winter wheat was rated good to excellent in Kansas and fair to mostly good in all other major producing States. Above normal temperatures and

(continued on p. 19)





Temperature and Precipitation Data for March 1983

States and Stations	Temperature °F		Precipitation Inches		States and Stations	Temperature °F		Precipitation Inches		States and Stations	Temperature °F		Precipitation Inches	
	Average	Departure	Total	Departure		Average	Departure	Total	Departure		Average	Departure	Total	Departure
AL BIRMINGHAM	52	- 2	4.8	- 1.8	LA BATON ROUGE	57	- 4	5.4	- .8	TOLEDO	38	3	1.9	- .7
MOBILE	55	- 5	6.9	.4	LAKE CHARLES	58	- 3	2.6	- .5	YOUNGSTOWN	40	5	3.6	.3
MONTGOMERY	54	- 3	9.0	3.1	NEW ORLEANS	58	- 3	4.9	-.2	OK OKLAHOMA CITY	49	0	2.5	.4
AK ANCHORAGE	29	5	0	-.7	SHREVEPORT	55	- 2	3.7	- .1	TULSA	49	0	2.2	-.9
BARROW	13	3	7	-.2	ME CARIBOU	27	3	3.8	1.4	OR ASTORIA	51	7	8.8	1.5
FAIRBANKS	14	5	-.1	-.3	PORTLAND	36	4	9.8	5.8	BURNS	39	2	3.7	3.2
JUNEAU	--	--	--	--	MD BALTIMORE	45	2	6.8	3.1	MEDFORD	49	3	3.2	1.3
KODIAK	--	--	--	--	MA BOSTON	41	3	9.7	5.6	PENDELTON	48	4	2.8	1.7
NOME	--	--	--	--	CHATHAM	40	3	9.8	5.8	PORTLAND	51	5	6.8	3.2
AZ FLAGSTAFF	36	1	4.4	2.3	MI ALPENA	31	4	2.8	-.9	SALEM	49	4	8.5	4.2
PHOENIX	62	1	3.2	2.4	TROIT	38	3	1.9	- .6	PA ALLENTOWN	42	3	5.4	1.5
TUCSON	57	- 1	1.3	.6	FLINT	38	6	2.4	-.3	ERIE	39	5	3.6	.7
WINSLOW	47	2	.8	.3	GRAND RAPIDS	37	4	3.3	-.8	HARRISBURG	43	2	4.9	1.4
YUMA	65	1	.2	.0	HOUGHTON LAKE	32	4	3.1	1.2	PHILADELPHIA	44	2	6.7	2.8
AR FORT SMITH	50	- 1	2.1	- 1.8	LANSING	36	3	3.3	1.0	PITTSBURGH	41	2	3.5	-.1
LITTLE ROCK	51	- 1	3.9	-.8	MARQUETTE	26	3	4.9	2.1	SCRANTON	39	3	3.3	.7
CA BAKERSFIELD	56	- 1	2.6	1.7	MUSKEGON	36	3	2.6	-.1	RI PROVIDENCE	40	3	8.8	4.5
EUREKA	53	5	10.7	5.6	SAULT STE. MARIE	28	4	2.6	.6	SC CHARLESTON	55	- 2	11.1	6.7
FRESNO	56	2	4.5	2.9	MN DULUTH	26	3	2.1	-.3	COLUMBIA	54	- 1	7.4	2.2
LOS ANGELES	58	1	6.4	4.6	INT'L FALLS	28	7	-.7	-.4	GREENVILLE	51	0	6.3	.4
RED BLUFF	54	1	9.2	6.8	MINNEAPOLIS	34	5	3.2	1.5	SD ABERDEEN	33	5	2.7	1.7
SAN DIEGO	62	3	6.6	5.0	ROCHESTER	32	4	2.0	-.3	HURON	35	6	2.3	1.1
SAN FRANCISCO	54	1	8.5	5.9	SAINT CLOUD	31	5	2.6	1.2	RAPID CITY	36	3	.8	-.2
STOCKTON	55	1	5.1	3.3	MS JACKSON	54	- 2	6.0	-.1	SIoux FALLS	33	3	3.4	1.8
CO DENVER	36	- 2	4.6	3.4	MERIDIAN	54	- 2	6.6	- .1	TN CHATTANOOGA	50	0	3.7	- 2.6
GRAND JUNCTION	46	4	1.6	.8	MO COLUMBIA	44	2	2.7	- .5	KNOXVILLE	50	0	2.0	- 3.6
PUEBLO	41	0	2.1	1.4	KANSAS CITY	43	1	2.9	-.5	MEMPHIS	52	0	3.7	- 1.7
CT BRIDGEPORT	41	3	9.2	5.3	SAINT LOUIS	45	2	3.5	-.2	NASHVILLE	50	1	3.4	- 2.2
HARTFORD	39	2	6.9	2.7	SPRINGFIELD	47	2	2.6	-.8	TX ABILENE	55	- 1	2.0	.9
DC WASHINGTON	49	3	4.8	1.3	MT BILLINGS	39	5	-.7	-.4	AMARILLO	45	- 1	1.0	.1
FL APALACHICOLA	57	- 4	5.0	1.0	GLASGOW	34	8	.4	.0	AUSTIN	58	- 3	6.0	4.3
DAYTONA BEACH	60	- 4	7.7	4.7	GREAT FALLS	36	5	1.6	.7	BEAUMONT	59	- 2	4.6	1.6
FORT MYERS	65	- 4	7.4	4.5	HAVRE	36	7	1.2	-.6	BROWNSVILLE	68	- 1	.6	.1
JACKSONVILLE	58	- 3	8.5	4.8	HELENA	38	6	-.4	-.3	CORPUS CHRISTI	64	- 2	3.0	2.2
KEY WEST	70	- 4	6.6	5.3	KALISPELL	38	6	1.5	.7	DEL RIO	63	0	1.1	.5
MIAMI	68	- 4	2.8	.9	MILES CITY	37	4	1.0	.5	EL PASO	55	0	.5	.2
ORLANDO	64	- 3	5.4	2.2	MISSOULA	40	6	1.1	.3	FORT WORTH	55	- 1	4.4	2.0
TALLAHASSEE	58	- 2	13.0	7.4	NE GRAND ISLAND	38	2	3.4	1.8	GALVESTON	61	0	2.9	.8
TAMPA	63	- 3	7.6	2.1	LINCOLN	39	3	3.8	1.9	HOUSTON	59	- 2	3.9	1.2
WEST PALM BEACH	67	- 3	3.4	-.7	NORFOLK	37	3	3.7	2.2	LUBBOCK	51	1	.6	-.3
GA ATLANTA	51	- 2	6.7	.8	NORTH PLATTE	37	2	1.5	-.4	MIDLAND	56	1	-.2	-.3
AUGUSTA	54	- 1	6.9	2.0	OMAHA	38	3	5.3	3.3	SAN ANGELO	57	- 1	1.2	.4
MACON	56	- 1	6.0	.8	VALENTINE	34	2	1.3	.5	SAN ANTONIO	59	- 3	3.8	.25
SAVANNAH	58	0	9.0	5.2	NV ELY	37	4	1.2	-.3	VICTORIA	61	- 2	4.1	2.8
HI HILO	71	- 1	2.0	-11.6	LAS VEGAS	56	1	-.9	.5	WACO	55	- 3	3.5	1.5
HONOLULU	74	0	.5	- 3.0	RENO	41	0	1.3	.6	WICHITA FALLS	52	- 1	2.1	.3
KAHULUI	--	--	--	--	WINNEMUCCA	42	3	1.5	-.8	UT BLANDING	41	2	2.3	1.5
LIHUE	73	1	1.0	- 3.5	NH CONCORD	36	4	7.1	4.2	SALT LAKE CITY	45	4	4.0	2.3
ID BOISE	45	4	2.7	1.7	NJ ATLANTIC CITY	45	4	5.9	1.9	VT BURLINGTON	33	4	2.6	.4
LEWISTON	42	- 1	1.5	.5	TRENTON	--	--	--	--	VA LYNCHBURG	47	1	4.1	.4
POCATELLO	40	4	2.9	2.0	NM ALBUQUERQUE	47	1	.6	-.1	NORFOLK	51	2	4.6	.7
IL CAIRO	48	0	2.7	- 2.3	ROSWELL	--	--	--	--	RICHMOND	50	3	6.0	2.4
CHICAGO	37	1	3.6	1.0	NY ALBANY	38	4	5.3	2.3	ROANOKE	47	1	6.4	2.7
MOLINE	39	3	2.9	-.1	BINGHAMTON	36	5	2.6	-.3	WA COLVILLE	44	7	3.4	1.2
PEORIA	40	3	2.8	-.1	BUFFALO	37	4	3.2	.2	OMAK	46	7	1.4	-.5
ROCKFORD	37	3	2.7	-.1	NEW YORK	43	2	8.2	4.1	QUILLAYUTE	46	4	13.0	1.7
SPRINGFIELD	41	1	3.4	-.3	ROCHESTER	37	4	2.5	.0	SEATTLE-TACOMA	49	5	3.8	.2
IN EVANSVILLE	47	0	4.3	-.5	SYRACUSE	36	3	2.3	-.8	SPOKANE	43	5	2.2	.8
FORT WAYNE	41	4	1.8	- 1.1	NC ASHEVILLE	47	0	6.3	1.2	WALLA-WALLA	50	5	4.2	2.8
INDIANAPOLIS	43	3	2.9	-.7	CHARLOTTE	51	1	6.1	1.3	YAKIMA	48	6	2.0	1.3
SOUTH BEND	42	6	2.5	-.6	GREENSBORO	48	0	5.8	1.9	WV BECKLEY	43	2	1.8	- 2.3
IA BURLINGTON	33	--	2.6	-.2	WY 53	1	9.3	5.2	CHARLESTON	47	2	3.2	-.8	
DES MOINES	39	4	3.7	1.5	HATTERAS	51	2	7.8	4.1	HUNTINGTON	48	3	1.9	- 2.2
DUBUQUE	35	3	2.9	.0	RALEIGH	54	0	8.1	4.1	PARKERSBURG	--	--	--	--
SIoux CITY	36	2	4.9	3.2	WILMINGTON	54	0	1.7	1.0	WI GREEN BAY	31	2	1.5	-.4
KS CONCORDIA	41	1	3.4	1.5	ND BISMARCK	30	6	2.3	1.5	LA CROSSE	34	3	1.6	-.4
DODGE CITY	43	1	2.9	1.4	FARGO	30	6	2.3	1.5	MADISON	33	2	2.7	.5
GOODLAND	39	2	2.2	1.2	WILLISTON	30	5	1.1	.5	MILWAUKEE	35	3	4.1	1.5
TOPEKA	45	3	4.4	2.2	OH AKRON-CANTON	42	5	3.8	-.4	WY CASPER	36	1	2.3	1.3
WICHITA	43	- 1	4.3	2.3	CINCINNATI	45	3	2.0	- 2.0	CHEYENNE	32	0	3.0	2.0
KY LEXINGTON	46	2	1.5	- 3.3	CLEVELAND	41	4	3.5	.5	LANDER	36	4	2.1	1.0
LOUISVILLE	47	2	2.2	- 2.5	COLUMBUS	43	3	1.7	- 1.5	SHERIDAN	39	7	.5	-.6
					DAYTON	42	3	2.7	-.6	PR SAN JUAN	82	4	1.5	-.8

Based on 1951-80 normals

National Agricultural Summary

March 28 to April 3

HIGHLIGHTS: Widespread showers and cool temperatures limited land preparation and spring planting across the Nation, except in the Southwest where warm, dry weather prevailed. Soil moisture supplies were mostly adequate to surplus. Corn planting was limited to Southern States, ranging from 5% complete in South Carolina to 42% complete in Texas. Sorghum seeding was limited to Texas. Growers seeded 51% of the acreage. Cotton planting gained momentum in Texas and was underway in Arizona, New Mexico, and California. Rice seeding picked up in Texas, Arkansas, and Louisiana. Winter wheat continued in mostly good condition; however, cool weather stalled development. California orchards and vegetable areas began drying out. Harvesting increased but planting was slow. Potential pasture growth in the South was limited by cool temperatures. Livestock continued in fair to mostly good condition with supplemental feeding in most regions.

SMALL GRAINS... Winter wheat continued in mostly good to excellent condition in Kansas and fair to mostly good in all other major producing States. Topdressing and weed control were limited by wet soils from the central Plains through the Corn Belt. Cool weather continued to limit development of small grains as far south as Oklahoma, but warmer temperatures stimulated excellent growth in Texas.

Wind caused damage to winter wheat in some west and south-central counties of Kansas. Wet weather delayed spraying to control a light infestation of greenbugs. Spring seeding of oats and barley reached 65 and 50% completion, respectively, the same as a year earlier.

Below-normal temperatures slowed wheat growth in Oklahoma. Wet weather again delayed topdressing and weed control activities. The additional precipitation maintained wheat stands in good condition.

Favorable moisture conditions and warming temperatures stimulated small grain growth in Texas. South Texas winter wheatfields were in the boot stage and beginning to head. Increased spraying reduced greenbug infestations. Wheat stands continued in fair to mostly good condition statewide.

Nebraska's winter wheat crop was in mostly good to excellent condition. Seeding of spring oats lagged last year and the average due to wet field conditions. Montana winter wheat improved to mostly good. Unsettled weather delayed topdressing.

OTHER CROPS... Wet soils and cool temperatures stalled corn planting in southern regions. Progress ranged from 5% in South Carolina to 42% in Texas. Weather conditions delayed development of seeded fields. Some replanting may be necessary. Emerged plants were in mostly fair condition.

Sorghum planting moved northward in Texas. Planting was 51% finished, 1 point behind schedule. Cool, wet conditions stalled development in some fields, and reseeding may be necessary. Growers on the Plains prepared fields for planting.

Cotton planting gained momentum in the Southwest as fields dried. Preplanting preparations were active in Texas. Growers increased planting as soil temperatures rose. Seeding was 6% complete, 5 points behind normal.

Cotton seeding was underway in New Mexico and Arizona's Yuma County. Warmer weather aided preplanting activities in both States. Some planting began in the Riverside and Kern areas of California, but most fields were too saturated from previous showers.

Rice seeding began on schedule in Arkansas. Growers finished seeding 12% of the acreage in Louisiana, 18 points behind schedule. Texas producers had planted 13% of the crop compared to a 36% average.

Tobacco transplanting was completed in Florida and 15% complete in Georgia. Wet conditions delayed transplanting in most areas. South Carolina growers pulled larger plants from beds and were storing them until conditions permit transplanting.

Peanut planting started in Texas on a limited scale. Sugarcane harvesting neared completion in Florida and Texas.

FRUITS AND NUTS... Scattered frost in the Piedmont area of South Carolina caused some damage to peaches. Orchards were rated fair to good across the Southeast. Georgia peaches reached 89% bloom.

Florida's citrus groves were in excellent condition, but some flatland groves had standing water. Most trees had uniform full bloom. Valencia orange picking increased, and grapefruit movement continued active.

Harvesting of Valencia oranges and grapefruit continued in the Rio Grande Valley of Texas. Pecan trees began leafing out in South Texas and the Rio Grande Valley. Cool temperatures slowed peach tree development and caused some damage.

In Arizona, Valencia orange harvest picked up slightly due to increasing demand. However, weak demand limited shipments of sweet oranges, tangerines, grapefruit, and lemons. Citrus groves continued in good condition.

Standing water in some California orchards and vineyards continued to cause problems. Hail caused minimal to major damage to some apricot, nectarine, peach, and plum orchards. Fungus caused almond tree defoliation and nut drop in some areas. However, strong winds late in the week decreased the fungus problem. The crop appears light. Early grapes are leafed out.

Cherries and pears began blooming. Navel orange producers increased picking, and Valencia orange harvesting began on the coast.

VEGETABLES... Cool, wet weather delayed land preparation for spring planting in northern areas. Limited early-season vegetables were seeded in the Southeast when conditions permitted.

Strawberry picking reached peak volume in Florida. Vegetable shipments increased 7% from the previous week. Only carrots, cauliflower, sweetcorn, lettuce, parsley, and peppers registered declines. Progress of most crops improved with milder weather.

Early-planted onions showed good size in the Rio Grande Valley of Texas. Growers actively harvested onions, cabbage, carrots, and celery. Planting resumed in the San Antonio-Winter Garden area, and lettuce, cabbage, and carrot harvesting continued active. Cool temperatures and wet conditions delayed planting and slowed onion and potato development in the Laredo and Trans-Pecos regions.

Melon planting continued active in Arizona. Warmer night temperatures aided growth. Lettuce harvesting declined in Yuma County, held steady in the Parker-Poston area, and increased in the Salt River Valley. Vegetable planting and harvesting made seasonal progress.

California's asparagus and cauliflower harvests were light, while shipments of broccoli and celery were moderate. Lettuce cutting decreased in desert areas but increased in the San Joaquin Valley. Strawberry harvest gained momentum. Wet fields further delayed processing tomato planting.

(continued on p. 19)

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 Offices in cooperation with the National Weather Service.

ALABAMA: Air temperatures 7 to 13° below normal. Soil temperatures 5 to 12° below normal. Rainfall Statewide with heaviest amounts northern half.

Fieldwork 1.5 days. Soil moisture surplus. Corn planted 15%, 1982 43%, average 21%. Activities: Routine care of livestock and poultry, planting of corn and some vegetables, applying nitrogen to wheat. Conditions: Livestock, wheat fair; pastures mostly fair; pasture feed mostly short; stored feed short to adequate; fieldwork behind schedule; plowing 26%.

ARIZONA: State enjoyed mostly sunny days, clear, mild nights with exception of very strong gusty winds. By week's end cold front poised to bring more wind, declining temperatures, 10 to 15° below seasonal normals. Temperatures past week varied 3° above to 3° below normal. No precipitation reported.

Ranges, pastures throughout State showed excellent spring growth. Ranges higher elevations covered with snow, supplemental feeding continued. Soil moisture above average. Mid-elevation ranges showed signs spring growth, cold nighttime temperatures hampered progress. Cattlemen still using supplemental feed. Desert ranges, pastures grew rapidly under excellent soil moisture conditions, abundance feed available. Cattle, sheep good to excellent condition Statewide. Stock water adequate. Planting activity 1983 cotton crop increased with warmer weather aiding cause. Most activity centered around pre-plant phases, Yuma County only area planting. Pre-irrigation heavy Statewide in preparation for planting. Other parts State should begin planting mid-April if weather conditions favorable. Wheat, barley made average progress Statewide, plants in various stages development. Most plantings fluctuated maturity between jointing, heading stages. Earlier plantings developing stands. Herbicides, insecticides applied as needed. Growers southeastern counties, Yuma County preparing seedbeds for corn, sorghum. Limited planting underway. First cutting alfalfa nearing completion Yuma County, getting underway Pinal, Maricopa, Graham Counties. Rain delayed first cutting many areas, recent warming trend provided favorable harvest conditions for hay growers to proceed with first cutting. Safflower satisfactory progress. Melons made good progress, warmer night temperatures aiding growth process. Earlier plantings Maricopa County 2 to 3 in. high. Planting cantaloups, watermelons, honeydew melons continued. Spring lettuce harvest declined rapidly Yuma County, growers expected to be finished Parker-Poston area mid-month. Growers Salt River Valley areas increasing volume. Light cauliflower cutting continued Yuma area. Mixed vegetable planting, harvesting seasonal progress. Arizona Valencia orange harvest picked up slightly. Limited shipping sweet oranges, tangerines, grapefruit, lemons due weak market conditions. Citrus groves good condition.

ARKANSAS: Cold, windy, and wet temperatures 5 to 10° below normal. Highest mean 55°, lowest 46°. Rainfall reported by all stations, amounts ranging from 1.00 to 2.00 in. Most rainfall 2.73 in., least 0.27 in.

Nearly 5.0 days favorable for fieldwork. Soil moisture adequate. Farm activity mostly land preparation and fertilizing. Rice planting begun, even with 1982 and average. Corn good condition, one-third planted. Winter wheat good condition, some downy mildew and rust evident. Pastures below normal. Cattle good condition. Tomato transplanting 25% completed southeast.

CALIFORNIA: It was rainy and cool early in the period with the North Coast averaging nearly 2.00 in. of rain and the Sacramento Valley just over 1.00 in. Recent days warmer and drying with strong northerly winds. South Coast stations were warm with 3° above normal. Long range forecasts little rain and warm temperatures.

Field activity standstill many areas nitrogen fertilizers applied. Early plantings winter wheat heading out. Small grain yellowing. First cutting alfalfa hay San Joaquin. Alfalfa weevils treated. Rice plantings delayed. Oats cut Stanislaus. Some plantings cotton Riverside, Kern, most fields saturated. Dry bean preparations delayed to May. Sugarbeets planted. Standing water many orchards, vineyards continues cause problems. Some fields being drained, diseases prevalent. Still too early assess damages. Recent hail storms caused minimal to total losses apricot, nectarine, peach and plum parcels. Stonefruit orchards southern San Joaquin Valley being treated thrips. Shot hole fungus in almonds very bad some areas much defoliation and nuts dropping. Strong winds near end of week helped decrease fungus activity crop looks light. Early grapes leafed out growth up to 6 in. Pears and cherries bloom. Activity Navel orange groves increased. Valencia orange harvest has begun Coast. Grapefruit quality excellent. Fieldwork started to increase as weather improved. Asparagus volume should be near peak but is very low. Broccoli moderate supply. Cauliflower harvest fairly light. Celery harvest moderate. Lettuce past peak Desert, increasing San Joaquin Valley. Strawberry volume increasing. Planting processing tomatoes still delayed by wet fields. Ranges, pastures remain saturated, flooding continues many areas. Grass growth best in years many areas. Grass nutrient value week northern areas, supplemental feeding necessary. Livestock treated for foot rot.

COLORADO: A cold front moved through the State early in the week and another cold front moved into the central Rockies late 2nd. Most reporting stations indicated some precipitation. Temperatures were near normal in the San Luis Valley, above normal in west and averaged 1 to 2° below normal in east.

Seeding of small grains behind normal because of recent moisture and wet topsoils. There was only 1.5 days rated as suitable for fieldwork. Topsoil and subsoil moisture rated as adequate to surplus. Ranges and pastures in fair to good condition and will green rapidly with warmer temperatures. Livestock in good condition with 53% of the cows calved and 60% of the ewes lambing. New-born calves and lambs under stress and requiring special attention due to cold weather and wet conditions.

FLORIDA: A cold front moved into south areas on the 26th, continued to move southeastward into the Florida Straights, spreading thunderstorms and accompanied by very high winds. Patches of hail occurred with some stones of 1 in. or so in diameter from Naples to Lake Okeechobee. Surface winds of 30 to 40 mph with gusts estimated as high as 60 mph accompanied this system. On the 29th, 30th, skies cleared and winds stilled some but remained fairly breezy. The 31st brought another cold front downstate with more strong, gusty winds, showers and thunderstorms. Another cold front passed through on the 2nd with less forceful winds. Showers were plentiful but few thunderstorms reported. Sunny skies, winds on the 3rd, greatly helped dry out the State.

Soil moisture variable, mostly excessive. A few areas drying out. Corn planting delayed due to wet soils. Early planted corn slow in coming up. Tobacco transplanting about complete, spot resetting underway. Preparation of land for peanuts, soybeans behind schedule. Wheat fair to good condition, most beginning to head. Loss of nitrogen apparent in some fields. Sugarcane harvest about complete. Young cane mostly good condition. Pastures poor to fair condition. Wetness delaying spring growth and limiting grazing areas. Cattle condition improved somewhat--mostly good as ranchers continue feeding hay and supplemental feed. Citrus grove condition excellent. Flatland groves wet with a little standing water. Bloom at peak, very uniform and full on most trees. Valencia orange harvest increasing. Grapefruit movement active. Showers, thunderstorms with strong, gusty winds occurred at start of week in vegetable areas. More showers fell after midweek and at end of week. Rainfall mostly light to moderate with some hail. Light flooding occurred in some low spots in the southwest area. Clear to partly cloudy skies. Mild temperatures prevailed between storms. Total shipments increased 7% from previous week. Harvest increased snapbeans, celery, Chinese cabbage, cucumbers, eggplant, okra, radishes, squash, strawberries and tomatoes. Supplies about steady cabbage, escarole, potatoes and Southern peas. Volume declined carrots, cauliflowers, sweet corn, lettuce, parsley and peppers. Strawberry harvest at peak volume. Watermelon progress improved with milder weather. First pickings after April 10, but no volume before early May.

GEORGIA: Weekly rainfall between 1.00 and 2.00 in. Temperatures from mid-40's north to mid-50's south. Mostly 5 to 9° below normal. Showers late 1st and early 2nd produced rainfall of 0.20 in. south and 0.60 in. north. Temperatures averaged 1 to 4° below normal.

Soil moisture 9% adequate, 91% surplus. Wet and cold conditions again slowed field activities. Only 2.0 days suitable for fieldwork. Corn 24% planted, last year 77%, average 53%, condition 35% poor, 61% fair, 2% good. Tobacco 15% transplanted, last year 79%, average 45%, condition 29% poor, 58% fair, 13% good. Watermelons 26% planted, 73% last year, 57% average, condition 8% very poor, 34% poor, 54% fair. Wheat jointing 76%, boot 27%, headed 8%, condition 9% poor, 55% fair, 34% good. Rye 8% poor, 49% fair, 40% good. Other small grains 7% poor, 52% fair, 38% good. Grain sorghum 2% planted, 4% last year, 2% average. Peaches 89% blooming, condition 4% very poor, 17% poor, 56% fair, 21% good. Pastures 10% poor, 39% fair, 48% good.

HAWAII: Weather generally fair. Some rainfall replenished reservoir levels and put farmers on regular irrigation schedules. Heavy irrigation continues in most crop areas. Leafy vegetables supply sufficient. Banana and papaya harvesting light. Pineapple and sugar harvesting continues to increase.

IDAHO: A moist westerly flow of air from the Pacific continued to flow over State the past week. As a result, wet unseasonably cool weather was the rule for the entire State. Most reporting stations recorded from 0.10 to 0.75 in. of moisture more than normal. Lewiston was the only station to record below normal precipitation with 0.11 in. less. Temperatures were 1 to 6° below normal.

For the second straight year, untimely precipitation delayed spring fieldwork in all areas. Statewide, spring wheat: 5% seeded, 5% last year and 17% average. Barley seeding: 3% complete, trailed last year's rain delayed 4% and 12% average. Sugarbeet planting stood at 4%, well behind both last year and the average. Onions lagged 18 points behind 1982 with 12% planted. Ranges had plenty of moisture and were showing growth in some

areas. The irrigation water supply was rated adequate to surplus. Sheep have been moved to some spring ranges. Feed supplies generally adequate.

ILLINOIS: Temperatures averaged 3 to 6° below normal. Minimum readings in the 20's in northern areas. Precipitation was heavy ranging from 0.95 to 3.85 in. Heaviest in north and central areas.

Wheat and livestock in good condition. Soil moisture adequate to surplus.

INDIANA: Field activities continue to be limited by wet soils. Activities included sowing of grass and legume seed, spreading fertilizer, seeding of tobacco plant beds, pruning orchards, hauling manure, readying equipment and waiting for drier weather, caring for livestock and usual chores.

IOWA: Temperatures averaged 3 to 5° below normal. Heavy precipitation fell the latter half week over southeast half of State. Snowfall of previous weekend melted during week causing high stream flows and some flooding, mostly local.

KANSAS: Precipitation averaged 0.50 in. or over 1.00 in. west, 2.00 to 3.00 in. southeast and 1.00 to 2.00 in. elsewhere. Temperatures ranged 41° northwest to 46° northeast, 2 to 6° below normal.

Wheat condition good to excellent. Barley planted 50%; last year 50%; average 55%. Oats planted 65%; last year 65%; average 55%. Wheat in jointing stage 5%. Light to moderate infestation barley yellow dwarf, soil borne mosaic, and tan spot. Light greenbug infestations. Light wind damage to wheat some west and south central counties. Calving coming to a close. Days suitable for fieldwork 1.0.

KENTUCKY: Week highlighted by very cool temperatures and periods of light rain or thunderstorms. Temperatures averaged 5 to 8° below normal. Precipitation averaged from 0.33 to 1.00 in. One inch amounts common in west, lighter totals east.

Field activity curtailed many areas due to cool, damp conditions. Principal field activities included fertilization, chemical application, preparation and seeding tobacco plant beds, seeding conservation use acreage. Soil moisture 36% short, 50% adequate, 14% surplus. Tobacco plant beds over 70% seeded, same year ago. Plants up in 18% of seeded beds. Soil too damp and cool for corn planting. Limited planting accomplished in March. Winter wheat good condition. Average height 6 in. One-half fruit trees budding or in bloom. Limited freeze damage. Pastures good.

LOUISIANA: Rainfall averaged 0.50 in. north to 1.25 in. southeast. Greatest weekly total 1.65 in. in Houma. Temperatures ranged 4 to 6° below normal north and central and 6 to 8° below normal south. High 79°, low 25°.

Soil moisture adequate to surplus. Days suitable for fieldwork 2.3. Spring plowing 47%, 57% 1982. Corn planted 49%, 63% 1982, 44% average; corn emerged 27%, 49% 1982. Condition fair. Grain sorghum 2%, 7% 1982. Wheat headed 15%, 29% 1982. Wheat turning color 1% and 1982. Condition fair. Rice planted 12%, 24% 1982, 30% average. Rice emerged 10%, 14% 1982. Condition poor to fair. Water mold reported in some fields. Sugarcane condition fair to good. Growers continue weed control. Vegetables rated fair. Strawberry harvest in full swing. Pasture rated fair. Livestock rated fair to good.

MARYLAND AND DELAWARE: The week 5 to 8° below normal with near normal rainfall in western Maryland and above normal precipitation elsewhere. High temperatures were in the high 50's to mid 60's and lows were in the high teens in western Maryland to mid 20's elsewhere. The week was the first since February 11th that temperatures have been below normal. Precipitation ranged from 0.74

in. at Hagerstown to over 1.50 in. at Woodstock with most areas receiving about 1.00 in. The 2nd was cloudy with rain. Highs mid 50's and lows mid 30's. The 3rd was mostly cloudy and warmer with rain. Highs mid 60's and lows mid 40's.

MICHIGAN: Winter continues to follow spring. After well above normal temperatures all winter below normal temperatures have prevailed the last two weeks. Precipitation was moderate to heavy over the Lower Peninsula and light over the Upper Peninsula.

The recent cold weather, has decreased the possibility of early planting this spring for most farmers. Many wheat fields remain too wet for fertilizer spreading. Most farming activities now centered around wood cutting and preparing equipment for spring planting.

MINNESOTA: Temperatures averaged 3 to 5° above normal northwest thru northeast and near normal elsewhere. Extremes, 58° Browns Valley and 11° Worthington. Precipitation averaged 0.20 to 0.30 in. below normal west central and southwest and near normal elsewhere, except 0.20 to 0.23 in. above normal northeast. Precipitation totals less than 0.35 in. west central and southwest and 0.35 to 0.66 in. elsewhere. Snowfall is at 1 to 3 in. in a band from central thru extreme northeast. Snowdepth at weeks end 1 in. or less except 1 to 4 in. northeast.

MISSISSIPPI: Temperatures 10 to 14° below normal. Extremes 24 and 78°. Greatest daily rainfall 1.50 in. Tornadoes 1st at Gulfport, Richland, and near Newton. Only minor injuries reported.

Soil moisture surplus to adequate. Fieldwork 2.5 days suitable, 3.6 last year, 2.8 average. Plowing for spring planting 30% completed, 50% last year, 48% average. Corn 18% planted, 38% last year, 28% average. Watermelons 10% planted, 55% last year. Winter wheat 44% jointing, 80% last year; condition fair to good. Pasture and livestock fair to good.

MISSOURI: Temperatures ranged 4 to 8° below normal for the State. Heavy rains near end of week brought many rivers over their banks. Widespread flooding occurred along the Missouri River and its tributaries. The Mississippi River was above flood stage along the length of State.

Oats 45% sown. Topsoil moisture supplies 63% surplus, 36% adequate and only 1% short. Winter wheat rated 1% excellent, 57% good, 40% fair and 2% poor. Cattle and hog losses due to unfavorable weather mostly normal. General livestock condition 2% excellent, 77% good, 20% fair and only 1% poor.

MONTANA: Temperatures 7° above normal in north central and central, 3 to 4° above elsewhere. Highest 65° at Malta, lowest 5° at Wisdom. Precipitation moderate to heavy over west and southwest with 0.33 to 1.00 in. common. Precipitation was mostly light rest of State.

Winter wheat condition good, crop greening. Fieldwork just starting with delays due to unsettled weather. Only 3.0 days suitable for fieldwork. Sub and topsoil moisture adequate. Calving 55%, lambing 45% complete.

NEBRASKA: Precipitation ranged 1.00 to 2.00 in. over east and central and 0.10 to 0.20 in. west. Temperatures 2° below normal.

Winter wheat condition mostly good to excellent. Oats 2% seeded, 5% last year, 15% normal. Pasture and range feed supplies mostly adequate to short. Topsoil supplies mostly surplus, subsoil mostly adequate to surplus.

NEVADA: Westerly flow aloft first part of week brought partly cloudy skies which helped keep most average temperatures above normal. Warmest temperatures occurred near end of period under influ-

ence of high pressure system. Extremes: 84 and 18°. Precipitation amounts greatest northeast, none reported extreme south.

Fieldwork curtailed by scattered snow showers and gusty winds. Strong, moist winds hard on newborn calves and lambs. Winter grains greening slowly due inclement weather.

NEW ENGLAND: It was relatively warm early in the week with a high of 63° 29th recorded in Rhode Island, and eastern Massachusetts. Coldest overnight lows occurred on the 30th and 31st. A few 10° or less readings, with 3° in northern New Hampshire early 30th. Precipitation occurred mostly on both ends of the week. Largest amount was on Cape Cod, Massachusetts with 2.38 in. for the week. Also, it was cold enough to snow many places. Five inches accumulated in northern New Hampshire and Maine.

NEW JERSEY: Temperatures averaged 4° below normal. Extremes 21° at Bridgeton on the 30th and 68° at Toms River and Hammonton on the 3rd. Weekly rainfall averaged 1.31 in. north, 1.86 in. central and 1.24 in. south. The heaviest 24-hour total 1.67 in. at Freehold on the 2nd to 3rd. Soil moisture averaged 100% north, 99% central and 98% south. Four in. soil temperatures averaged 42° north, 48° central and 50° south.

Soil moisture continues adequate to excessive. Soil preparations progressing slowly on light soils. Wet field conditions continue to delay progress on heavier soils. Pastures greening. Fruit tree pruning continues.

NEW MEXICO: Average temperatures near normal. Midweek fluctuations above and below normal. Little precipitation 0.25 in. northern mountains and northeast. Wind storm on 3rd.

Winter wheat good condition - 30% grazed. Alfalfa fair to good. Some insect infections. Potatoes seeded east-central. Cotton planting underway. Chile pepper planting Mesilla Valley. Livestock fair to good, ranges fair.

NEW YORK: Stormy weather at beginning produced most of the week's precipitation, 0.25 to 0.75 in. in north to near 1.00 to 1.50 in. in south. Higher elevations reported 1.00 to 1.50 in. as well. Average temperatures upper 20's in north, mid 30's in west, low 40's in southeast. Coldest readings midweek.

NORTH CAROLINA: Precipitation above normal State-wide except 2 to 3 times weekly average in some localities. Temperatures 5 to 6° below normal.

Soil moisture: Surplus. Approximately 1.0 day suitable for fieldwork. Conditions: Wheat, oats, barley and rye fair to mostly good. Tobacco plant beds: Fair to mostly good. Irish potatoes: Poor to fair. Hay and roughage, and feed grains: Adequate. Pasture conditions: Fair to mostly good. Major farm activities: Equipment repair, tobacco plant bed maintenance, purchasing farm supplies, tending livestock and some topdressing grains and pastures where weather permitted.

NORTH DAKOTA: March began with temperatures averaging 10° above normal. By mid-month temperatures were averaging 5° above normal and at month's end, temperatures were averaging only 1° above normal. Precipitation amounts averaged above normal during the second week of March but the remaining weeks were all below normal.

Cool temperatures and light precipitation keeping field conditions too wet for work. Entire State has at least adequate topsoil moisture with 34% surplus, much wetter than normal for this date. Calving and lambing generally going well, but scours problems were showing in some areas.

OHIO: Temperatures averaged below seasonal levels. Readings 2 to 3° below normal north and west.

Southeast averages were 5 to 6° cooler than usual. Temperature extremes wide; high from upper 50's to middle 60's. Lows generally in 20's, with some mid to upper teens north. Precipitation widespread. Totals averaged 0.50 in.; most sections about 0.25 in. below normal. Soils now saturated with soil temperature averaging low to middle 40's.

Cooler temperatures and late week rains held field activities to a minimum. Spring plowing was slow as farmers waited for more favorable weather conditions. Some oats seeded. Other activities included pruning and cleaning orchards, removal of mulch from strawberry plants, seeding and reseeding vegetables. Winter wheat in good condition.

OKLAHOMA: Temperatures ranged from 5° below normal west central to 9° below normal north central, south central, and southeast. Precipitation ranged from near 0.40 in. Panhandle to 1.00 in. north central.

Wheat growth remained slow due to below normal temperatures. Topdressing and weed control activities again hampered by wet weather. Wheat continued good condition. Livestock in good to fair condition. Muddy fields prevented cattle from grazing on PIK program wheat.

OREGON: Wet spring continued. Coast received up to 5.50 in. of rain; up to 4.00 in. inland valleys; from 0.50 to 1.00 in. desert areas. Temperatures 2° above normal.

Soil moisture supply mostly surplus. Winter wheat condition good to excellent in east; fair to good west with some yellowing from too much water. Fertilizing, planting, spraying and tilling behind schedule. Mint and hay fields look good. Most fruits 2 to 3 weeks ahead of normal. Early D'Anjou pears, cherries, peaches, prunes and apples in early bloom or full bloom. Spraying hampered by rains. Too wet for vegetable planting. Hermiston-Boardman potatoes going in. Green pea seeding behind schedule. Spinach and rhubarb harvest underway. Livestock generally good shape. Pastures really growing well with moisture and mild temperatures. Grazing difficult in western area as pastures too soft and muddy. Range prospects excellent.

PENNSYLVANIA: This was the second week of cooler and wetter weather than normal. The State mean temperature was 38° or 5° below the normal. Individual station departures from the normal ranged from 2 to 7° below. Temperature extremes were 61 and 4°. Precipitation was 1.41 in. or 0.60 in. above normal. Most of the rain fell at the beginning and end of the week leaving the middle days dry.

PUERTO RICO: Island average rainfall 0.13 in. or 0.44 in. below normal. Highest weekly total 0.34 in. Highest 24-hour total 0.34 in. Temperatures averaged about 81 to 77° on Coasts and 74 to 69° Interior Divisions. Mean station temperatures ranged from 80.9 to 63.8°. Extremes 94 and 55°.

SOUTH CAROLINA: Cooler than usual week with lows near or slightly below freezing early 29th in northwest and mostly into 30's with scattered frost reported elsewhere. Rainfall at beginning and last of week. Rainfall amounts not quite as heavy as during previous week.

Soil moisture excessive Statewide with 1.0 day available for outside work where fields could be entered. Corn planting delayed and emergence slowed by some cool soils, only 5% planted, 61% last year, 42% average. Tobacco plant beds suffering from recent rainy weather. Many growers cannot prepare cropland, so pulling larger plants from beds and storing; 1% planted, 10% last year. Piedmont peaches have scattered frost, freeze damage; general condition fair to good. Apples looking good. Small grain condition fair to good,

some growers applying need nitrogen by air; wheat and oats not yet headed behind last year's 3% and 2% average. Coastal tomato transplanting completion expected this week, delayed past March's normal finish, planted percentage set at 76%, last year 84%, average 80%; condition fair.

SOUTH DAKOTA: Temperatures averaged from 6° below normal southeast to 6° above normal northwest. Extremes 5 and 71°. Precipitation light. One to two inches snow east. Precipitation for year ranges from 2.70 in. above normal east to 2.00 in. below west.

TENNESSEE: The first half of the week was cold with much of the State recording a freeze either 29th or early 30th. The rest of the week was warmer. Precipitation totals for the week in excess of 1.00 in. were common across middle and west with lesser amounts being recorded in the east.

Days suitable for fieldwork 2.9. Soil moisture 12% surplus, 73% adequate, 15% short. Land preparation 45% completed, ahead of last year but behind the average. Wheat in fair to good condition. Pastures in fair condition, cattle in good condition. Slight frost damage to fruits and vegetables in some areas. Tobacco beds 83% planted.

TEXAS: Transient high pressure early in week. Scattered thunderstorms, briefly heavy rains East Texas. Thunderstorms portions of North Central Texas 30th. On 30th and 31st temperatures well above normal. High winds, light rains 1st. Some winds North Texas exceeded 60 mph. No precipitation weekend, highs near normal. Week averaged close to normal, temperature-wise, about half-normal, precipitation-wise.

Crops: State experienced generally fair conditions. Despite showers some areas, producers able to resume land preparation, planting. Wet fields, unseasonably cool temperatures hamper operations Plains, East Texas. Sorghum planting active. Some fields stalled by cool, wet conditions, replanting necessary. Plains, preplant operations continued, planting begin soon. Weather conditions affected planting, development of corn. Delayed development may cause replanting. High winds late week damaged some stands. Planting active Blacklands. Cotton planting continues. Planting should gain momentum as fields dry, soil temperatures increase. Preplant activity active. Small grains making excellent progress. Moisture conditions favorable, warming temperatures stimulated growth. Wheat fields in boot stage South Texas beginning to head out. Greenbug problems reduced by spraying. Reported condition 84% of normal compared to 79% a year ago. Currently, 17% excellent, 55% good, 26% fair, 2% poor. Rice planting continued slowly. Cool, damp conditions affected planting. Sugarcane harvest virtually completed. Production good, excellent sucrose content. Cotton planted 6%, 10% 1982, 11% average. Rice planted 13%, 28% 1982, 36% average. Sorghum planted all purposes 51%, 55% 1982, 52% average. Wheat headed 0%, 4% 1982, 1% average. Corn planted for all purposes 42%, 42% 1982, 34% average. Peanuts planted 2%, 1% 1982, 3% average. Sugarbeets planted 18%, 50% 1982, 42% average.

Commercial vegetables: Rio Grande Valley, harvest of onions, cabbage, carrots, celery active. Early planted onions showing good size, quality. Harvest of grapefruit, Valencia oranges continued. San Antonio-Winter Garden area, harvest of lettuce, cabbage, carrots continued. Open weather allowed producers to resume planting. Uvalde, planting of cantaloups, cucumbers for pickles active. East Texas, cool soil temperatures, wet soils delaying planting, emergence. Some frost damage on tomato plants. Laredo, spring onions slow to develop. Unusually wet, cold conditions hurt development. Plains, onion, potato planting active. Early

planted fields developing well. Trans-Pecos region, cool temperatures continue to slow onion, potato growth. Some wind damage to onions, tomatoes. Peach trees continue to bud. Cool temperatures slowed development, damaged some trees. Pecan trees making good progress. Spraying continued. Trees leafing South Texas, Rio Grande Valley.

Range and livestock: Range, pasture condition showed some improvement, warmer temperatures stimulated growth of grasses, small grains. Grazing improved throughout State, supplemental feeding necessary scattered areas. Livestock in good to excellent condition, some bloating problems exist. Small grain pastures providing excellent grazing.

UTAH: Recurring periods of snow and rain most of State. Accumulations generally heavy to moderate. Cool temperatures ranging from 6° below to 2° above.

Sheep shearing halted. Stockmen take steps to protect young animals and to feed livestock on the open ranges. Turkey producers protecting young turkeys. Temperatures critical for fruit trees. Spring work halted in all areas of the State.

VIRGINIA: Wet and unseasonably cool weather almost entire period then cleared and warmed for 3rd. Temperatures averaged 5 to 10° below normal with rainfall in the beginning of the period of 0.50 to 1.50 in. supplemented by an additional 1.00 to 3.00 in. on 2nd. Temperature extremes: Around 20 to near 70°.

Continued wet, cool weather brought soil moisture up to 50% adequate and 50% surplus and reduced days suitable for fieldwork to only 1.9. Corn seeding changed very little and fell even farther behind last year and average. Potatoes 40% seeded, 49% 1982 and 39% average. Fertilizing and liming pastures, hay and small grain continued active. Wheat and barley still reported in excellent condition. Herbicide applications picked up in some areas. Seeding pastures and hay continue with some spring grains planted in dryer areas. Some spraying and pruning of fruit trees continues. Damage from frost was light but widespread and even affected some strawberries in the east. Apple and peach orchards in good to excellent condition. Livestock in good to excellent condition. Supplemental feeding still necessary in wet areas even though pastures rated in good condition. Preparation for feeder sales active and early treatment for lice started.

WASHINGTON: Southwesterly flow of moist unstable air during the weekend produced variable amounts of precipitation across the State. A similar pattern continued through the week with a strong front crossing the State on 29th. Very unstable air followed the front and several thunderstorms were observed on 30th with reports of hail to 1/2 in. west of the Cascades. Temperatures were near normal but weekly precipitation totals were well above normals both east and west of the Cascades.

Rain slowed fieldwork. Weed control and top-dressing major activities. Winter wheat looking good. Alfalfa and wheat have put on very good growth. Expect to be cutting hay last of April. Most Norgold potatoes planted. Between showers, growers weeding berries. Blueberries starting to bloom; raspberries in foliage. Orchard spraying difficult with recent weather conditions. Peaches now starting to bloom Yakima Valley. Bud and blossom development continues to be 1 to 2 weeks ahead of average. Rainy and windy weather hampered pollination as bees not active. Field rhubarb harvest interrupted by rain, but continues as weather conditions allow. Some early vegetable crops seeded. Harvesting winter cauliflower underway. Pastures greening ahead of normal. Eastern area stock generally still on feed. Turnips never died down, thus providing excellent grazing. Lambing and calving mostly over. Good weather for both. In western area, limited amount green chopping begun.

WEST VIRGINIA: Temperatures averaged 4° above normal across the State. High 68°, low 13°. Precipitation averaged above normal across the State. Heaviest 2nd in eastern Panhandle.

Soil moisture adequate to surplus. Days worked averaged 1.9. Hay, grain and other feed supplies adequate. Recent wet conditions slowing spring activities.

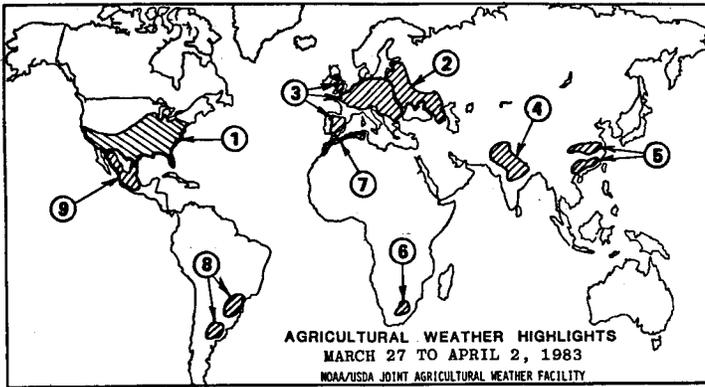
WISCONSIN: The week began on a sunny note with clouds increasing on 29th. Light snow moved across the State late 29th and 30th. Snow amounts were generally light with 1 in. in the northwest. An approaching cold front from the west brought snow and rain to the State late 30th and 31st. Precipitation amounts were generally light with Juneau reporting about 1.00 in. of rain and some scattered 1 in. snows fell in the north. The 2nd and 3rd were windy and wet as a low moved across Missouri and Illinois. This inclement weather brought numerous reports of 1.00 to 2.00 in. rains in the southeast, mainly close to Lake Michigan. Inland areas had 2 to 5 in. of snow. The high temperature for the week was 56° at Richland Center on the 1st. The cold spot was Phillips in the northwest with -1° on 29th.

WYOMING: Temperatures slightly below normal with southeast coldest. Precipitation figures near or slightly above normal except for north central basins.

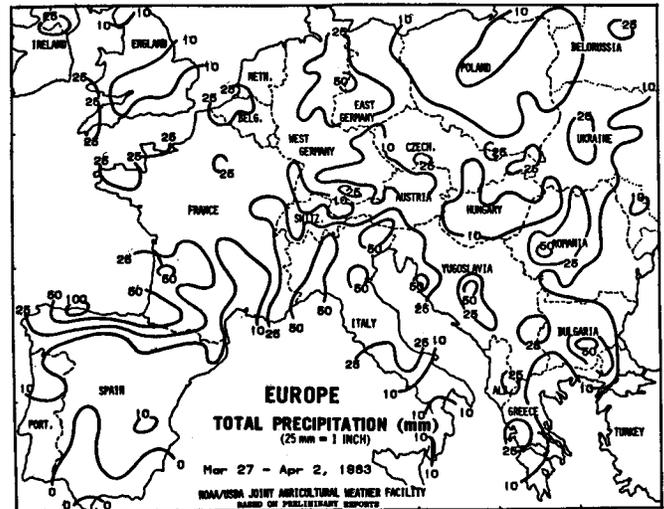
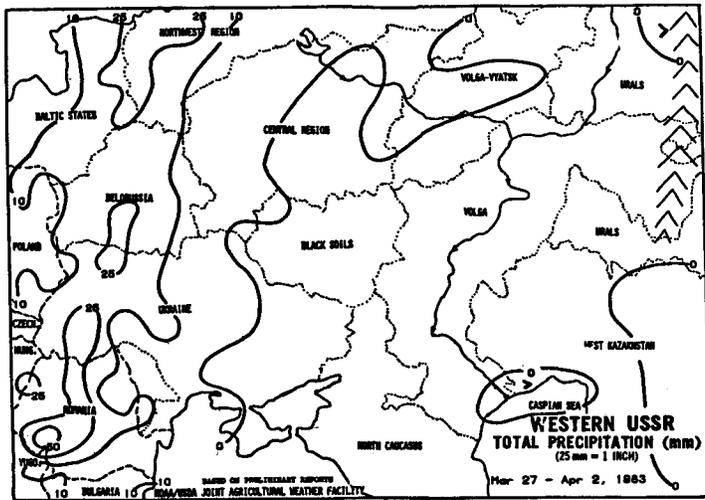
Only 3.0 days suitable for fieldwork. Fields muddy or snow covered. Intermittent blizzards. Both spring wheat and oats planted: 10%; barley planted: 33%. Small amount of sugarbeets planted. Winter wheat mostly fair condition. Livestock mostly good condition. Spring calves born: 45%; last year 70%. Farm flocks: Ewes lambed 40%; shorn 45%. Range sheep: Ewes lambed 45%; shorn 25%. Calf and lamb loss light to normal, isolated scours. Range and pastures mostly in good condition.

International Weather and Crop Summary

March 27 to April 2

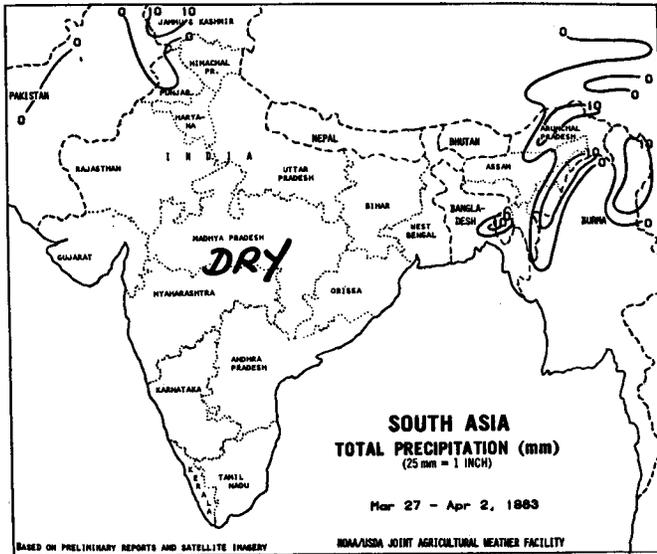


1. UNITED STATES ... Wetness over the eastern half further delays fieldwork, while unseasonable coolness slows crop development. Mostly sunny, dry weather over the Southwest boosts field activities, even allowing resumption of harvesting and planting in California.
2. WESTERN USSR ... Generous rains cover winter grains in the Baltics, Belorussia, and the western Ukraine. It is mostly dry elsewhere, and unseasonably warm weather promotes growth in the south.
3. EUROPE ... Showers benefit winter grains over most of Europe except Spain, where dry weather continues to stress the crop.
4. SOUTH ASIA ... Dry weather continues to favor maturing winter grains and aid the harvest.
5. EASTERN ASIA ... Heavy rain again delays rice planting in Guangdong and Fujian. Mild spring weather promotes vegetation of winter wheat and spring crop planting, but it is too dry in the north.
6. SOUTH AFRICA ... High temperatures and only scattered showers dim wheat planting prospects but aid drought-ravaged corn harvest.
7. NORTHWESTERN AFRICA ... Light, widespread showers benefit winter grains in the heading stage; more rain is needed.
8. SOUTH AMERICA ... Weather favors Brazil soybean harvest. Wetness in Buenos Aires slows Argentina's crop harvest but improves preplanting conditions for wheat. Mostly dry weather favors cotton harvests in both countries.
9. MEXICO ... Continued dryness stresses rainfed crops and pastures and further reduces irrigation supplies, but favors harvesting and planting.

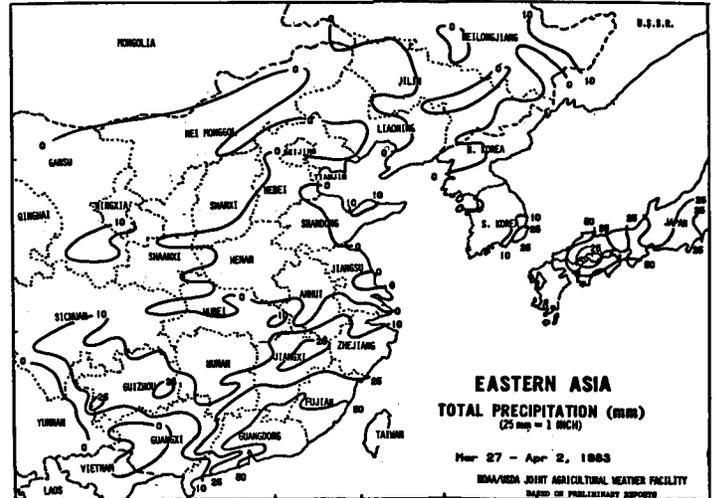


WESTERN USSR...Generous rains covered winter grains in the Baltic States, Belorussia, and the western Ukraine. In contrast, a large stationary high-pressure system centered over Kazakhstan kept most winter grain areas dry over the remainder of the region. In addition, the high-pressure system promoted the influx of unseasonably warm, dry air from the south, causing weekly temperatures to rise 5°C to 10°C above normal over most of the region. As a result, most winter grain areas in the north are without snow cover, and the crop is losing hardiness. The warm weather promoted growth in the south, and fieldwork for spring planting should be well underway in many areas.

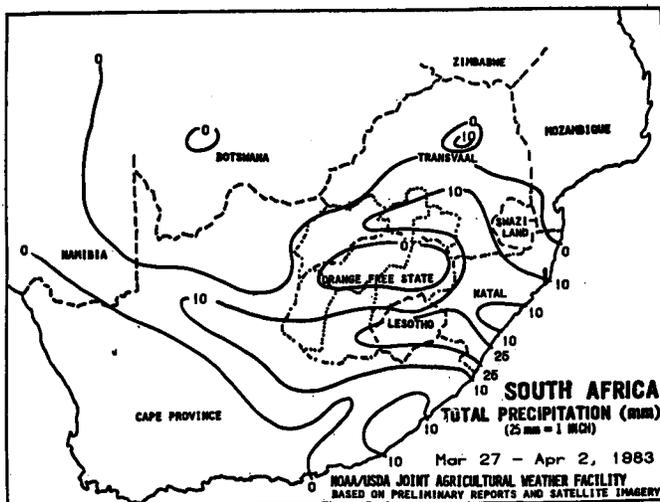
EUROPE...A series of frontal systems moved eastward across the region during the week. As a result, near-normal precipitation fell on winter grains in northwestern and north-central Europe. A storm system developed early in the week in the western Mediterranean and produced beneficial, widespread rains for winter grains in Italy, Yugoslavia, Romania, and Bulgaria. However, the rains fell too far east to benefit winter grains in Spain. The crop in southern Spain is likely in the heading stage, and unfavorably dry moisture conditions since planting have reduced the yield potential. Likewise, unfavorable dryness in northern Spain has also stressed winter grains since planting. Winter grains should be in the vegetative stage in the north, and timely rains in the next few weeks could still boost yield prospects. Weekly temperatures were below normal in the west and above normal in the east.



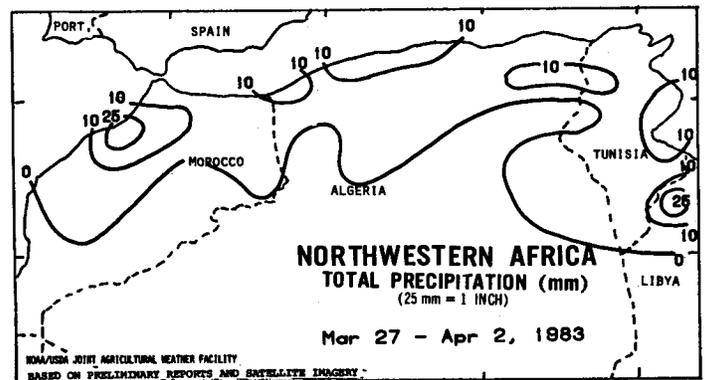
SOUTH ASIA...Mostly dry weather covered the region. The continued dry weather in winter wheat areas in Pakistan and northern India favored maturing grain and aided harvest activity. The dry weather which covered western, central, and south peninsular India was seasonable for this time of year. However, showers in April should increase in south peninsular India, eastern India, and Burma due to premonsoon showers.



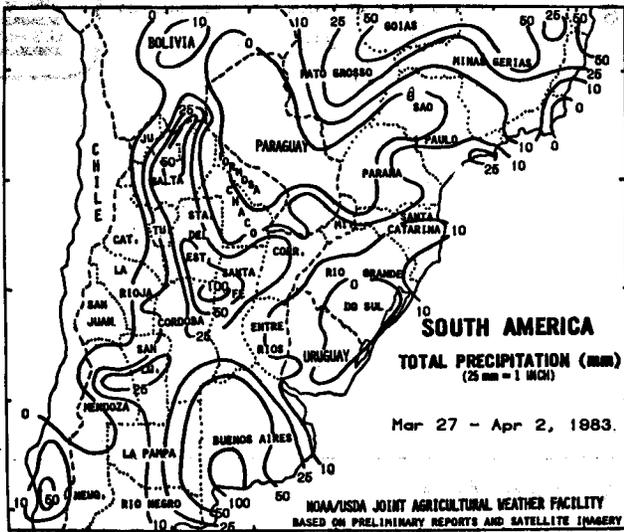
EASTERN ASIA...Heavy rain fell again early in the week in Guangdong and Fujian. The excessive rains drenching southeastern China in recent months have delayed early rice planting and aggravated the existing flood potential throughout the area. Rainfall slackened considerably to the north with only minimal amounts occurring north of the Yangtze River. Above-average temperatures and dry weather covered the northern half of China and Korea. Winter grains are in vegetative growth, and spring crop planting should be underway. Timely spring rains are needed to aid crop development in northern China. The spring wheat area from Nei Monggol to Liaoning as well as northern winter wheat areas are especially dry. Rain will be needed to ensure spring crop emergence and proper reproduction of winter wheat. Adequate moisture should be available at present in central China for cotton and other crop planting.



SOUTH AFRICA...Some scattered showers dotted the Maize Triangle early in the week, but coverage was not widespread. Thus, the weather generally favored crop harvests, but soil moisture conditions remained unfavorable for wheat planting. What little moisture that did fall was rapidly evaporated by high temperatures which averaged well above normal for the week throughout the area. Clear skies covered the wheat area of southwestern Cape Province. Substantial rains are needed soon to improve wheat planting prospects and to increase water availability. Prospects for these rains diminish, however, as the zone of seasonal wet weather migrates north of the equator during the summer months.



NORTHWESTERN AFRICA...Light, widespread showers benefited winter grains in the heading stage in Morocco, Algeria, and Tunisia. Cumulative precipitation since early November indicates that moisture supplies are near normal in central Algeria and Tunisia, and below normal in Morocco, western Algeria, and eastern Algeria. Although rain has improved growing conditions during the past 2 weeks, amounts have been generally light, and timely rains are needed in all areas to ensure favorable yield prospects. Weekly temperatures were below normal over the region.



SOUTH AMERICA... Mostly light rainfall in Brazil's soybean area allowed the crop harvest to progress well. In Parana, harvesting was nearly half complete for the entire state, while further south, in Rio Grande do Sul, early harvesting was in full swing. Showers covered northern crops from Mato Grosso to Minas Gerais, but citrus/coffee areas of Sao Paulo were mostly dry with early crop varieties maturing. The dry weather also favored the cotton harvest in Sao Paulo. In Argentina, locally heavy rain fell in wheat areas of southern Buenos Aires and western La Pampa, improving soil moisture supplies for planting next month. Heavy showers halted harvesting of corn, sorghum, and other crops in northern Buenos Aires, while lighter showers slowed crop harvests in southern portions of Cordoba and Santa Fe. Another area of locally heavy rain likely caused excessive runoff in northern portions of Cordoba and Santa Fe, but the northern cotton harvest progressed in Chaco and Formosa under mostly clear skies.

National Weather Summary (continued from front cover)

FRIDAY ... The storm moved into the middle Mississippi Valley and produced severe showers and thunderstorms throughout the Mississippi Valley. A few snow showers fell from the Texas Panhandle to the northern Plains. Tornadoes touched down from Arkansas to Alabama, and deluges of heavy rain caused local flooding from Missouri and Illinois to Mississippi and Alabama. Light rain continued from northern California through Washington and Idaho with moderate amounts along the Washington and Oregon coasts.

SATURDAY ... The storm system moved northward through the central United States and spread a variety of weather from Florida to the northern Mississippi Valley and northeastward through New England. Heavy rain fell in parts of the Great Lakes States. Steady rain combined with showers and thunderstorms from the Ohio Valley to Florida and northward to southern New England. Heavy showers and thunderstorms fell from western North Carolina to southern New Jersey. Light showers covered the west coast to central California and over the Plateau to the northern and central Rockies. Snow fell in the Rockies.



MEXICO... Unseasonable dryness has continued over most of the country since early March, allowing fieldwork but sapping soil moisture. The dry spell favored the vegetable harvest and the beginning of wheat combining, as well as field crop planting. However, under bright, sunny skies, soil moisture supplies are decreasing. The southern Plateau corn belt is unusually dry, and the rainy season does not generally begin until May. In the irrigated areas, field crops and orchards should be developing very well in response to abundant sunshine and warm temperatures.

Weather and Crop Summary (continued from p. 7)

ample soil moisture in most areas promoted good growth early in the month, but cooler weather slowed development at the month's end. By the end of March, the crop was greening as far north as Montana, jointing in the Southern States, and heading on early planted stands in the Southwest. Growers reported only light wind damage and winterkill.

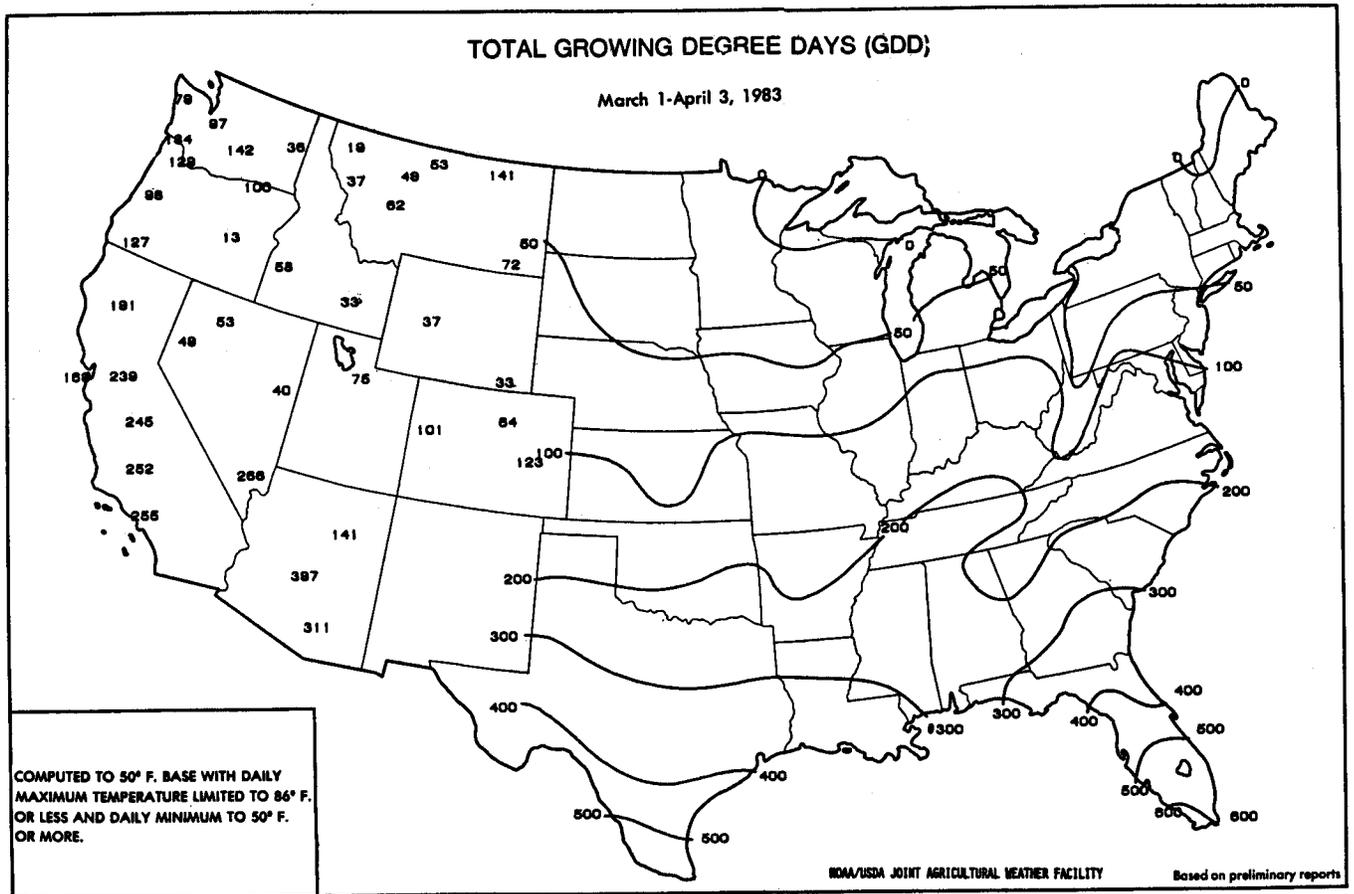
Kansas winter wheat made good growth, as warm temperatures and ample soil moisture prevailed during March. Wind lightly damaged some stands in central and south central areas near the end of the month. The crop was rated good to excellent with only light fungus and greenbug infestations. Oklahoma received timely rains which relieved dry conditions in some areas. Wheat made good growth until cold temperatures slowed development late in the month. Wheat stands were in fair to mostly good condition in Texas. Cooler temperatures slowed growth in late March; however, increased moisture was helpful. Growers sprayed to control persistent greenbug and mildew problems; damage was light. Arizona winter wheat made excellent progress with the earliest fields heading during the month. Wheat was in fair to good condition in Montana where growth was beginning in southern areas at midmonth.

National Agricultural Summary (continued from p. 11)

PASTURES AND LIVESTOCK... Pastures across the South were rated fair to good. Conditions continued to improve due to good soil moisture supplies, but cool temperatures limited potential growth. Supplemental feeding was decreased in Texas as warmer temperatures stimulated grass growth. Calving and lambing continued active across the Nation. Livestock were in fair to mostly good condition.



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Managing Editor Don Haddock
Meteorologists Jim Williams
Ray McInturff Wes Byrd
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