

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

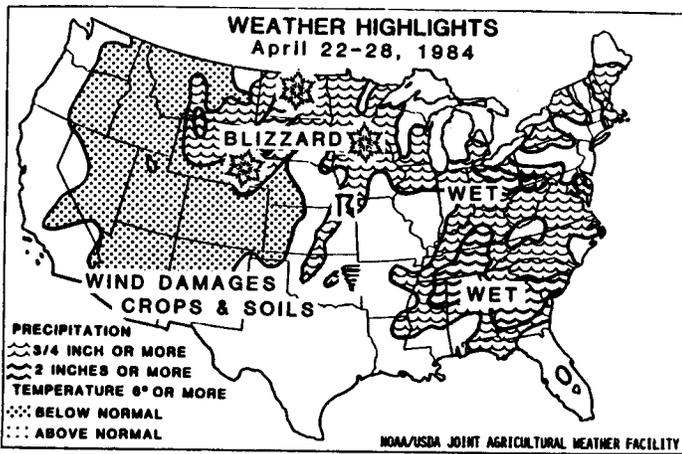
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National Weather Summary

April 22 to 28



WEDNESDAY...A strong spring storm, building in the central Rockies, spread heavy snow over the central and northern Rockies and the high Plains. Cold rain covered the warmer areas of the Dakotas and Minnesota. Very warm air pushed northward ahead of the storm; ninety degree readings pushed into southern Oklahoma and temperatures in the seventies reached the lower Great Lakes region.

THURSDAY...The powerful spring storm spread heavy snow throughout the central Plateau and Rockies, the northern Rockies, and the central and northern high Plains. Thunderstorms spawned severe weather from eastern Oklahoma to the western Great Lakes region and across the Southeast. Much colder air was pushing across the Plains, but readings in the eighties reached well into Michigan.

FRIDAY...Heavy snow fell from Wyoming through the Dakotas and moderate rain fell eastward into the Great Lakes region. Lighter showers fell in the Ohio Valley and the Southeast, but heavy thunderstorms covered western Tennessee. Record-low temperatures were reported in the Rockies and western Plains, while record highs were recorded in the East.

SATURDAY...Snow tapered off in the northern Plains, but a line of showers and thunderstorms reached from Alabama into New York and the Appalachians. A new storm, developing in the Southwest, spread showers from Arizona and New Mexico into Nebraska and Illinois.

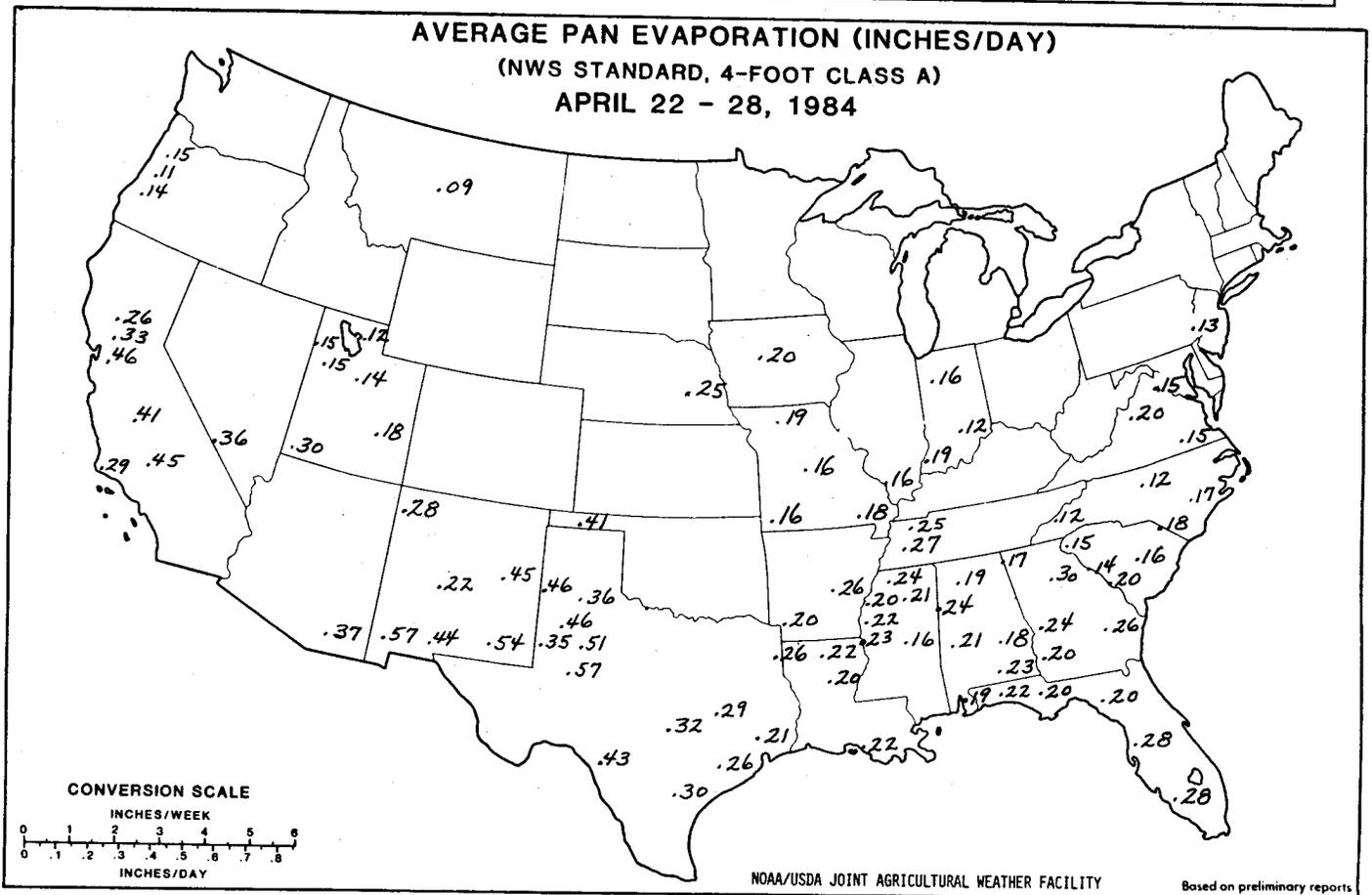
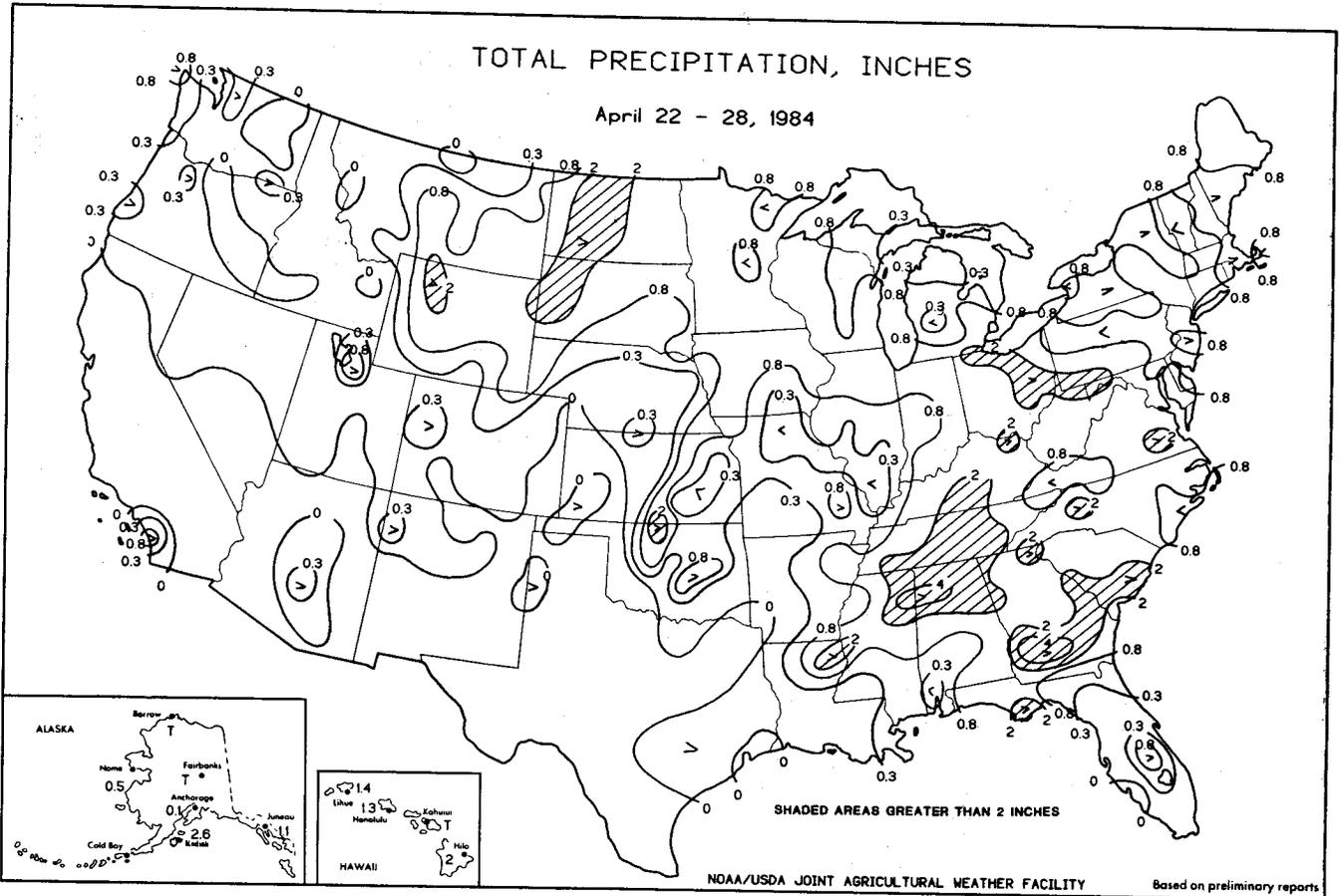
HIGHLIGHTS: Showers fell through the Midwest and along the east coast early in the week. A cold outbreak early in the week dropped temperatures to near freezing in much of the central and northern Plains, and early morning temperatures were below freezing in the Texas Panhandle. At midweek, a strong spring storm spread snow through the central and northern Rockies and then heavy snow fell over much of the northern Plains. Warm air ahead of the storm triggered heavy thunderstorms, severe weather, and rainshowers from Oklahoma to the Great Lakes and then eastward to the Appalachians. Much colder than normal temperatures pushed southward behind the storm to the central Plains.

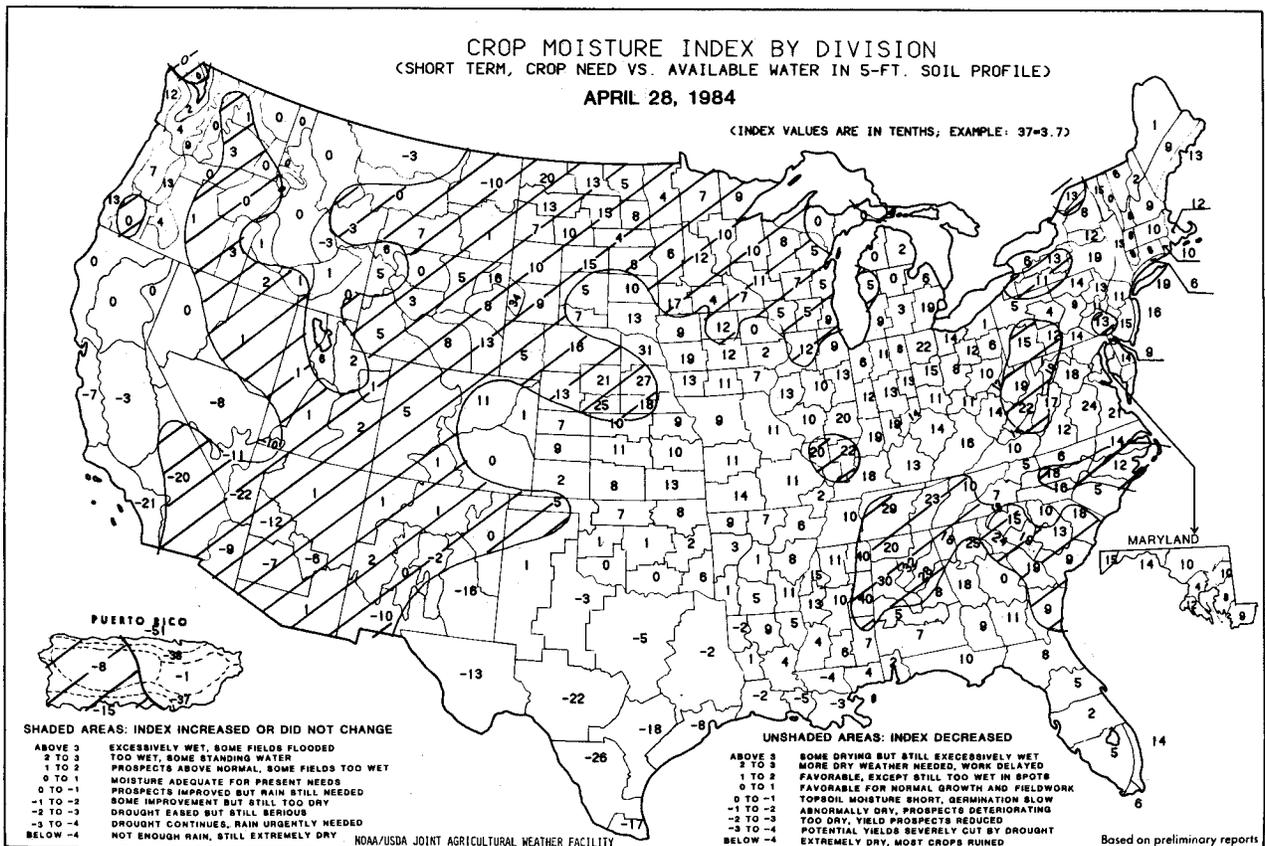
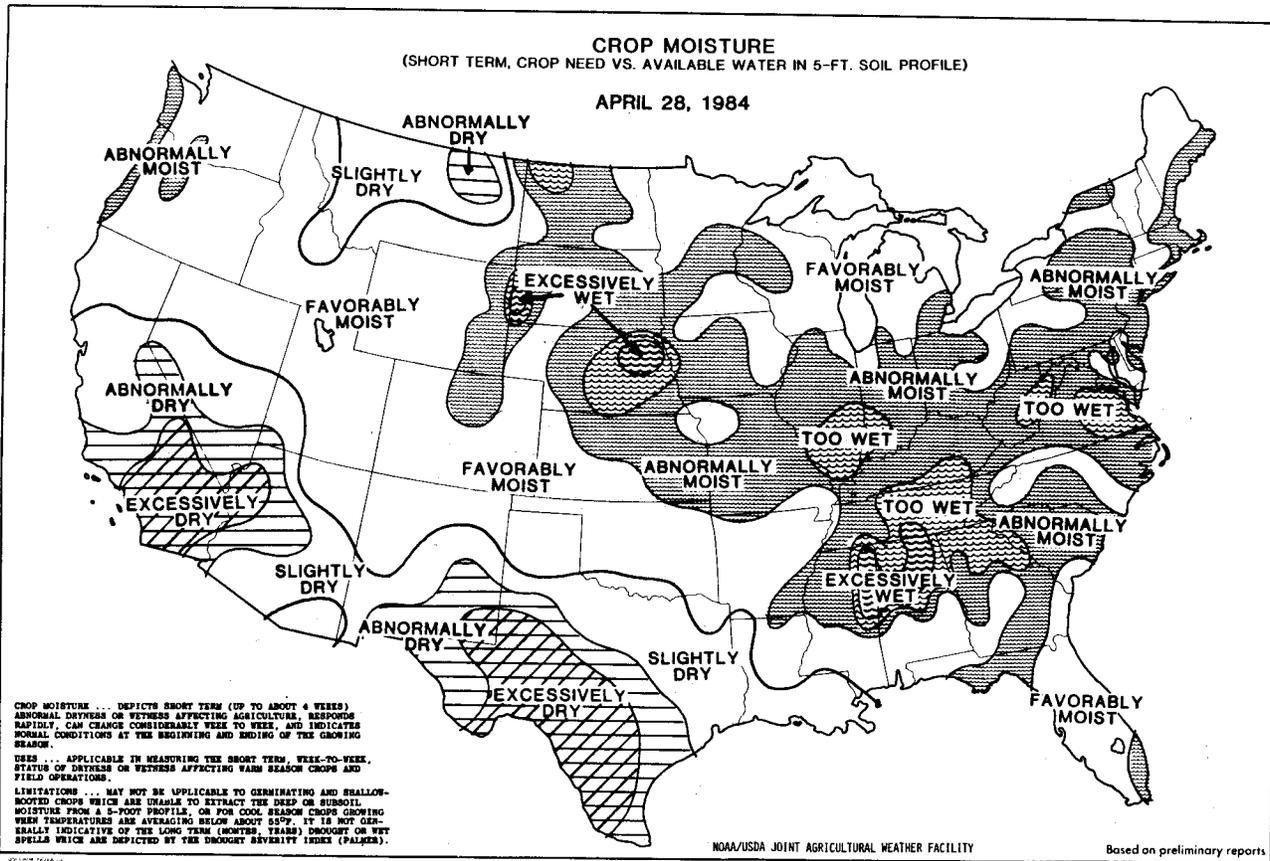
SUNDAY...Wet weather reached from the eastern part of the central Plains to the mid-Atlantic States and southward to northern Florida. Thunderstorms produced heavy rain and severe weather over the Southeast. Cool weather over the northern and central Plains reached into northwest Texas and caused snow in Iowa and Wisconsin.

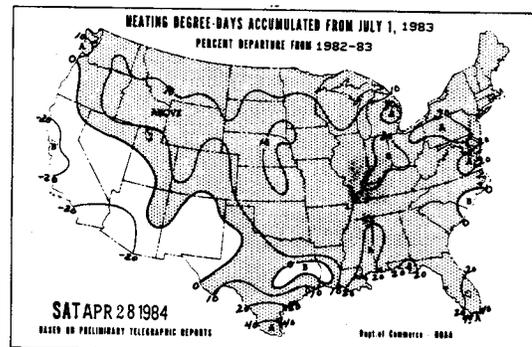
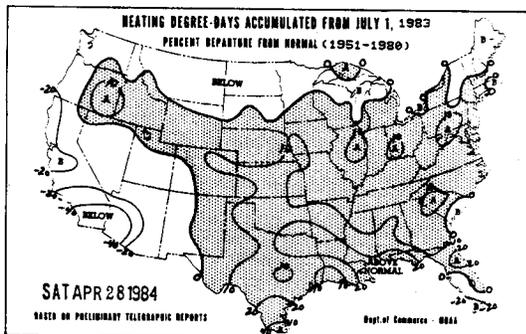
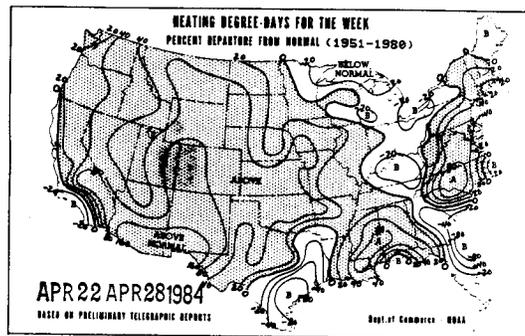
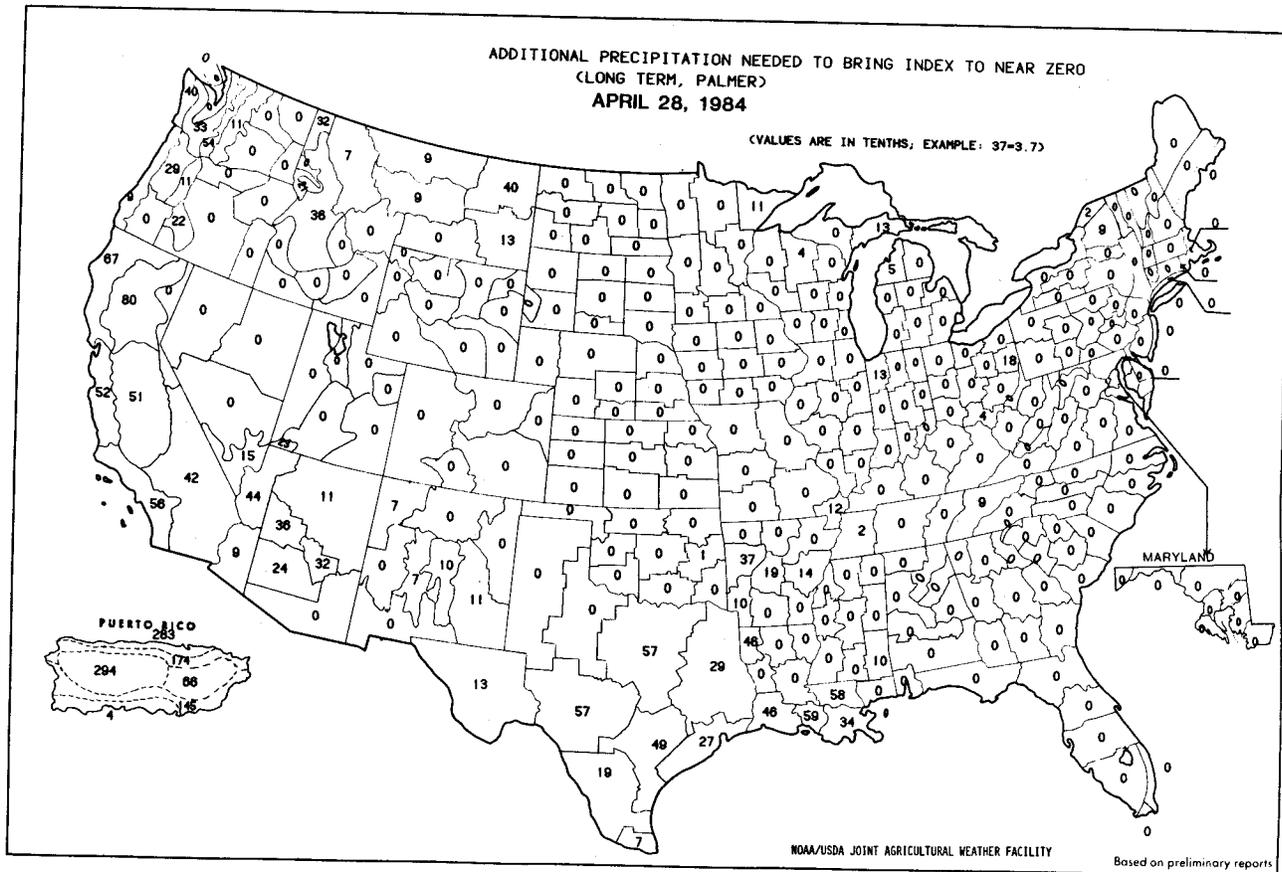
MONDAY...Cool weather continued over most of the Plains. Early morning temperatures reached freezing in parts of the central and northern Plains. Light rain or showers reached from Illinois through New England and all along the east coast. Heavier rains fell in Ohio.

TUESDAY...Mostly light rain fell from Pennsylvania through New England, but some heavy amounts fell in western New York and northern New England. Showers over the northern Rockies moved into the Plains. Very warm air began to push into the southern Plains and afternoon temperatures rose to the nineties in central Texas.

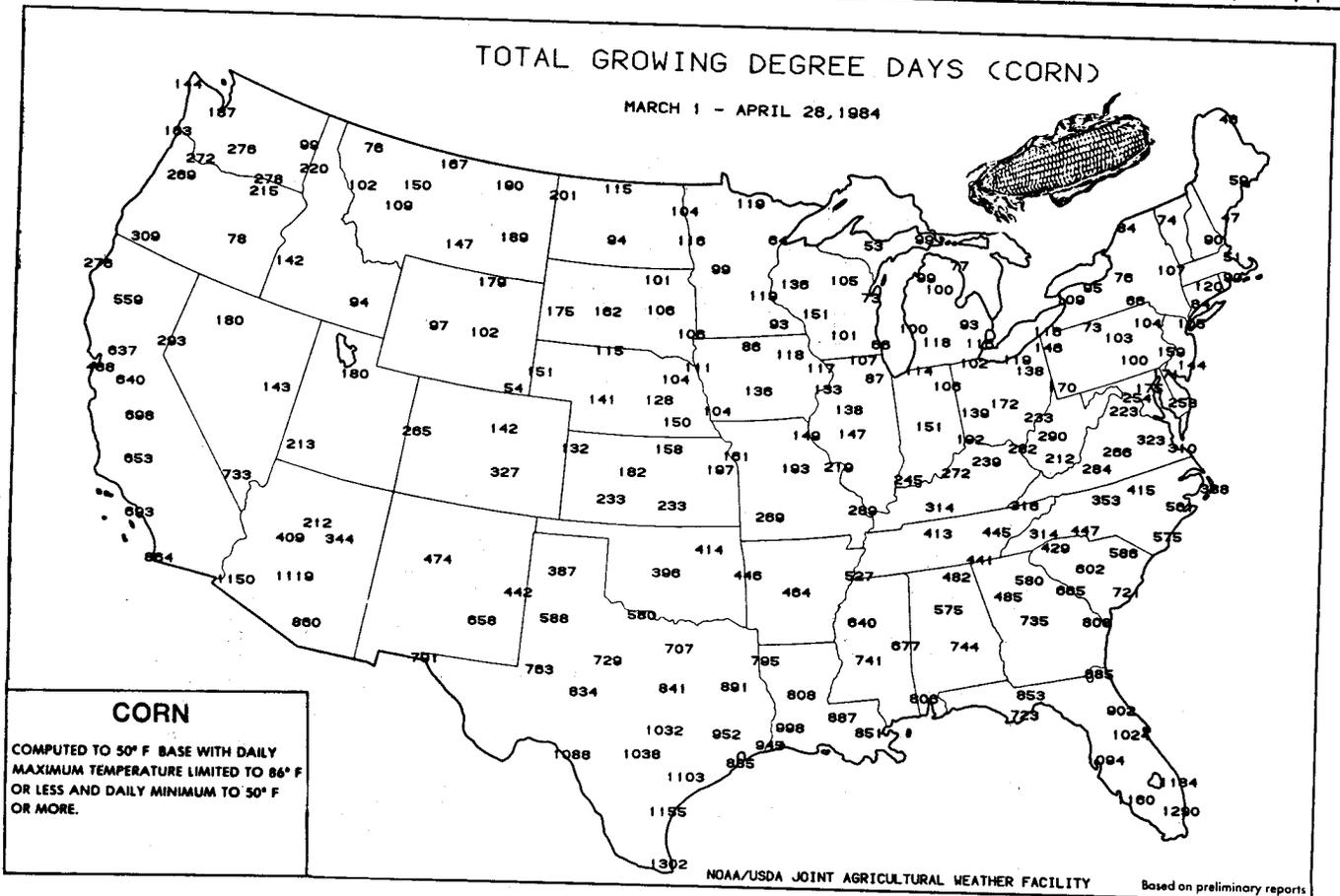
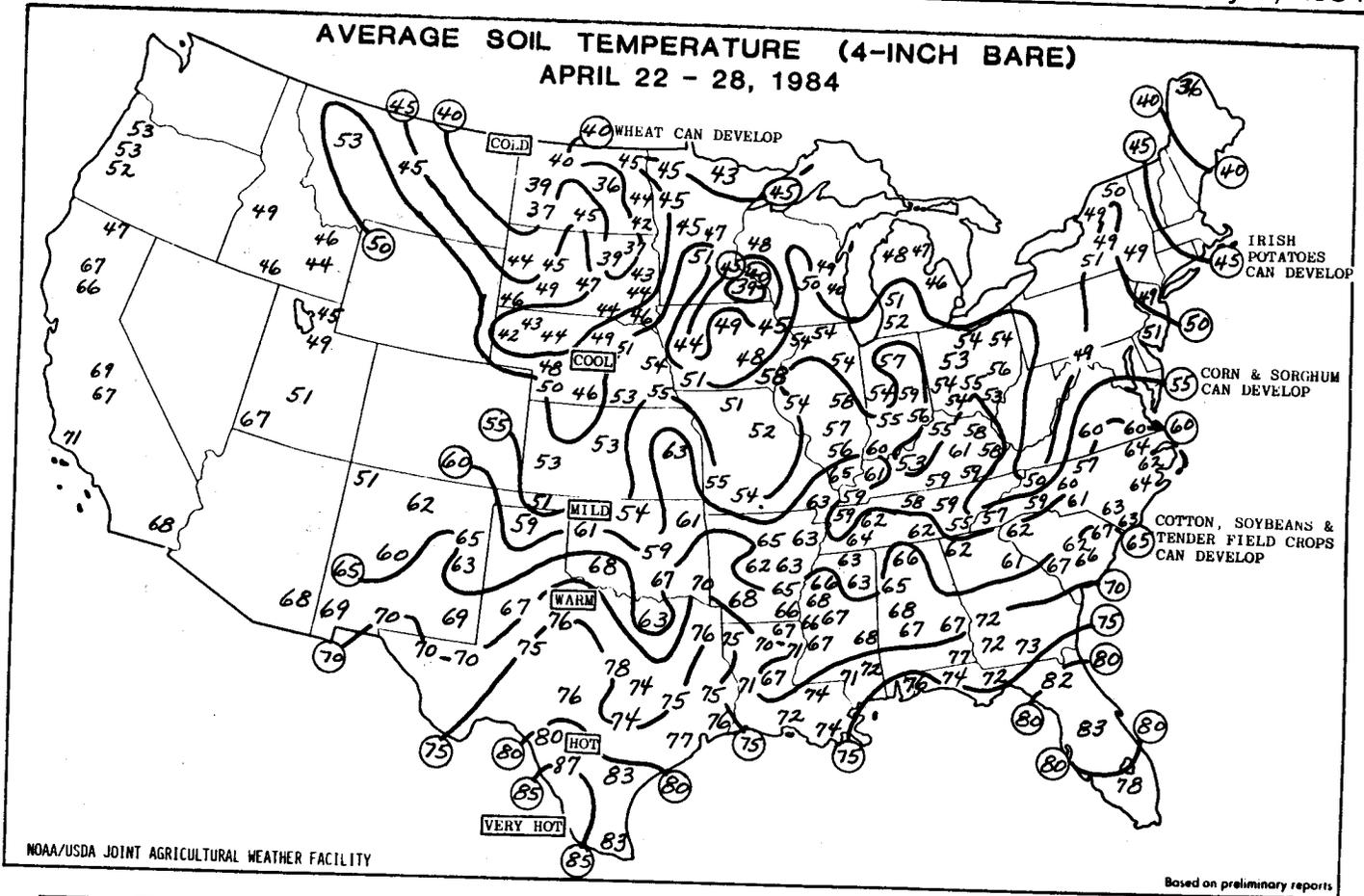
Contents	Page
National Weather Summary	1
Precipitation & Pan Evaporation	2
Crop Moisture & Crop Moisture Index	3
Drought Severity & Drought Severity Index	4
Precipitation Needed to End Drought & Heating Degree-Days Maps	5
Soil Temperature & Growing Degree Days	6
Average Temperature & Departure	7
Weather Data for Selected Cities	8
Heating Degree-Days Table	11
Area Names Commonly Used in the Weekly Weather and Crop Bulletin	12
National Agricultural Summary	13
Crop Progress & State Summaries of Weather & Agriculture	14
International Weather & Crop Summary	21
Subscription & Mailing Permit Information	24

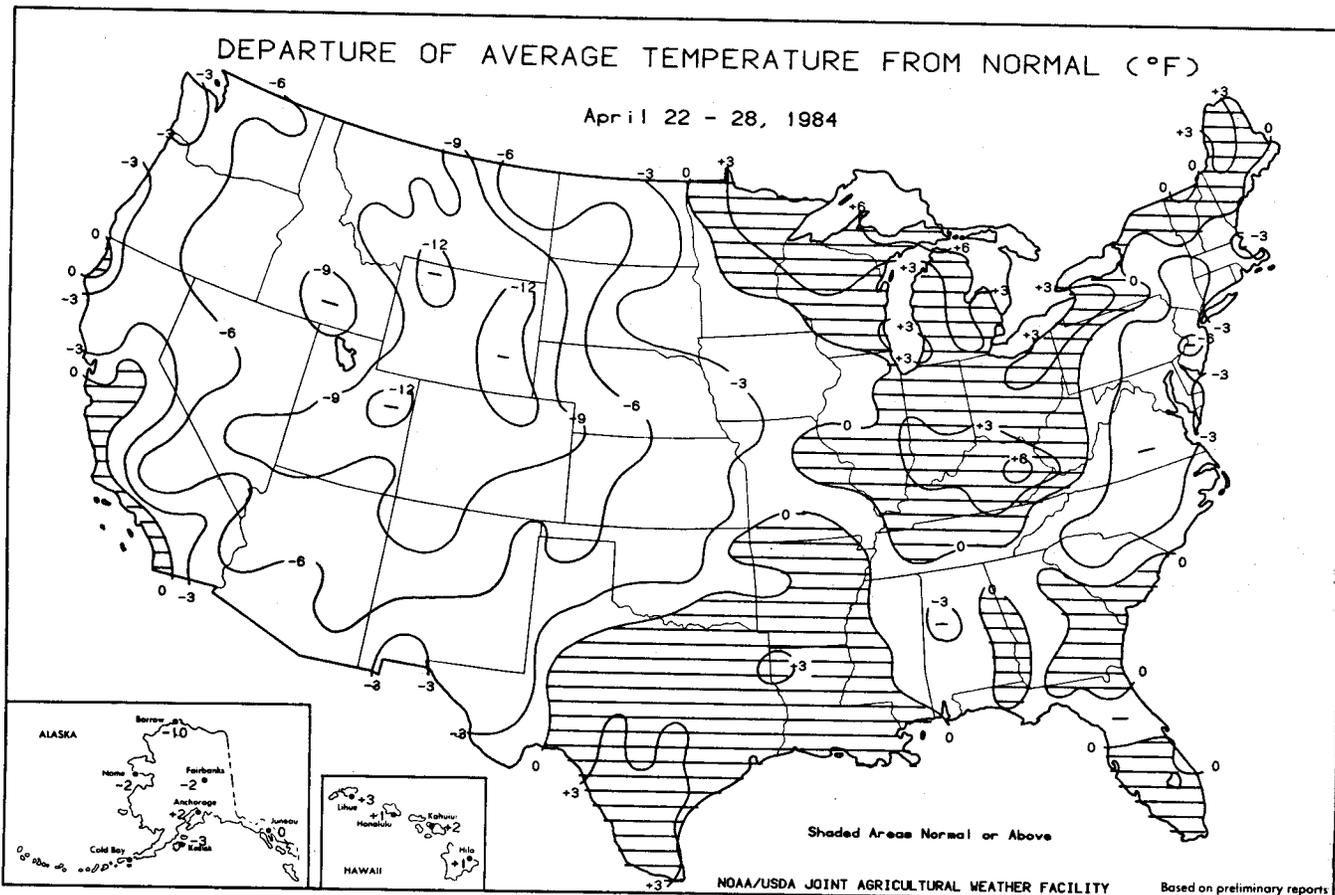
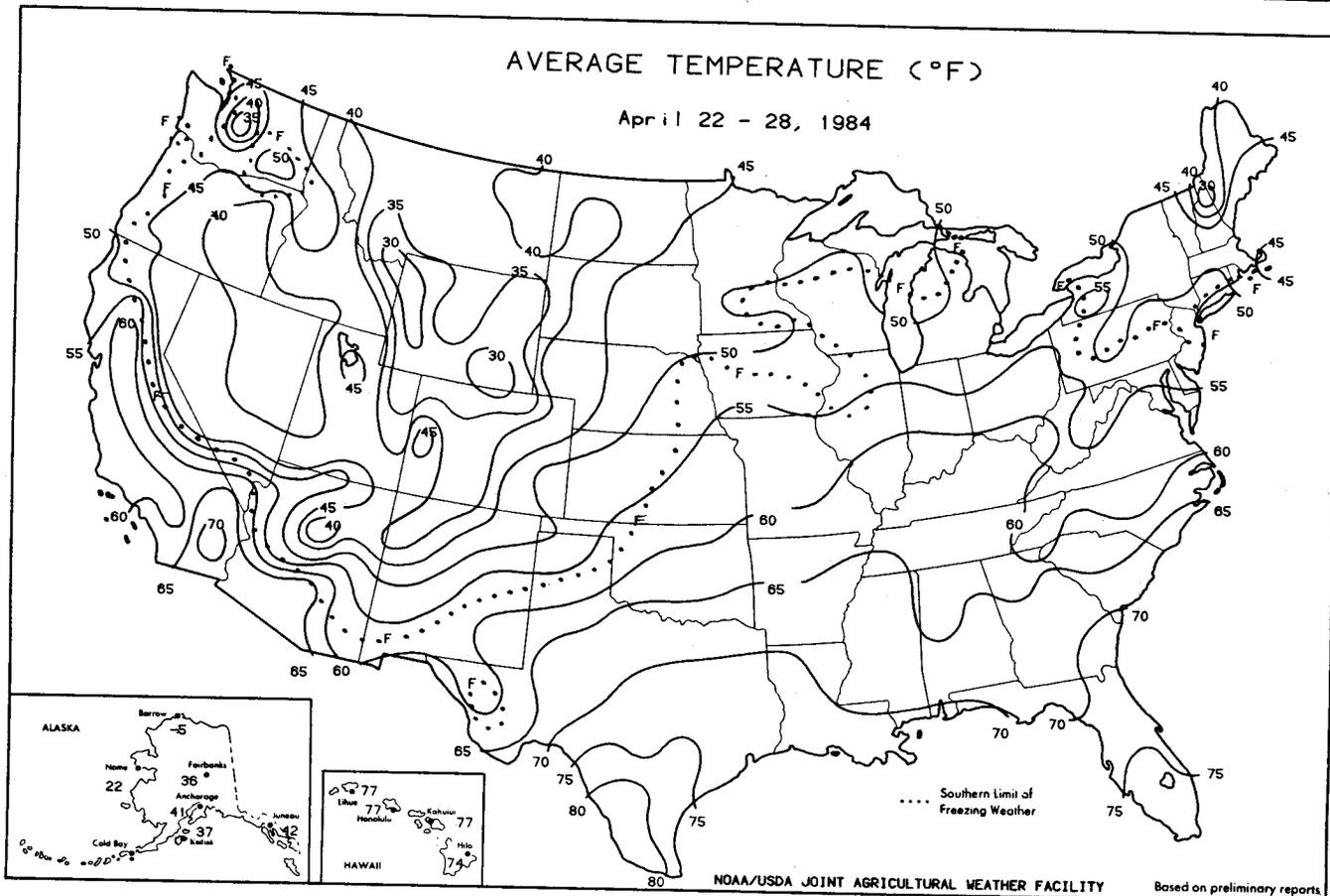






(See page 11 for more information.)





Weather Data for the Week Ending APRIL 28, 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	
AL BIRMINGHAM	77	52	93	41	64	-1	3.3	2.2	2.2	11.2	104	18.4	86	87	38	1	0	4	1	
AL MOBILE	80	60	83	49	70	-1	2	2	1	1.0	1	18.4	87	38	1	0	4	1		
AL MONTGOMERY	79	55	86	43	67	-1	8	1	8.3	77	19.3	91	84	46	0	0	2	0		
AK ANCHORAGE	49	33	58	26	41	2	1	1	7.1	75	16.4	87	91	46	0	0	4	0		
AK BARROW	1	-11	16	-28	-5	-10	1	1	9	90	3.2	123	69	34	0	4	4	0		
AK FAIRBANKS	45	26	55	20	36	-2	T	T	4	67	.7	88	88	59	0	7	2	0		
AK JUNEAU	50	34	56	29	42	0	T	T	6	75	2.2	122	76	33	0	5	0	0		
AK KODIAK	42	31	48	19	37	-3	1.1	1.4	5.1	89	17.5	128	94	42	0	2	2	1		
AK NOME	29	15	39	5	22	-2	5	4	13.7	169	30.9	132	88	62	0	4	6	2		
AZ PHOENIX	80	59	94	48	69	-2	3	4	8	73	1.6	64	82	53	0	7	4	0		
AZ PRESCOTT	59	34	75	25	46	-6	1	3	9	90	1.2	55	42	18	2	0	1	0		
AZ TUCSON	76	50	88	42	63	-5	1	1	3	14	.3	5	44	18	0	2	1	0		
AZ YUMA	82	57	95	47	69	-4	T	T	8	200	.9	43	47	17	0	0	2	0		
AR FORT SMITH	77	51	86	38	64	-1	T	T	6.2	83	9.6	78	81	33	0	0	1	0		
AR LITTLE ROCK	77	55	87	45	66	0	.4	.9	8.5	89	13.8	79	79	44	0	0	3	0		
CA BAKERSFIELD	74	43	85	34	58	-7	0	1	0	1	0	1.1	73	1.2	32	67	20	0		
CA EUREKA	56	44	59	39	50	0	T	T	7.1	97	13.2	65	84	62	0	0	0	0		
CA FRESNO	76	46	88	40	61	-2	0	2	0	0	.6	24	1.8	27	70	18	0	0		
CA LOS ANGELES	71	53	83	46	62	1	2	0	2	0	1.3	52	1.7	20	77	30	0	0		
CA RED BLUFF	72	47	86	39	59	-2	0	3	0	1.8	51	4.1	35	60	19	0	0	0		
CA SACRAMENTO	75	47	86	41	61	0	0	2	0	1.4	47	2.6	25	83	22	0	0	0		
CA SAN DIEGO	70	58	80	52	64	2	0	1	1	0	.6	27	1.2	20	79	43	0	0		
CA SAN FRANCISCO	65	47	70	42	56	0	1	3	0	1	2	20	79	43	0	0	1	0		
CO DENVER	51	30	62	24	41	-10	2	3	2	55	4.0	33	78	38	0	0	0	0		
CO GRAND JUNCTION	57	35	70	29	46	-9	5	3	3	2.8	200	3.2	133	80	32	0	3	4		
CO PUEBLO	63	32	75	22	48	-7	T	T	2.2	138	2.5	109	82	19	0	4	1	0		
CT BRIDGEPORT	58	42	70	31	50	-2	3	3	7.4	106	13.6	100	83	43	0	1	1	0		
CT HARTFORD	62	38	75	28	50	-3	7	2	5	8.3	108	15.0	99	89	39	0	1	3		
DC WASHINGTON	66	47	80	40	56	-4	1.2	5	5	9.8	166	14.9	130	86	43	0	0	4	1	
FL APALACHICOLA	76	59	79	48	68	-3	2.1	1.4	2.1	15.3	232	24.0	169	95	65	0	0	1	1	
FL DAYTONA BEACH	83	59	87	51	71	-1	3	2	3	6.6	138	11.6	107	86	44	0	0	1	0	
FL JACKSONVILLE	84	58	89	50	71	1	3	5	3	8.8	140	15.6	116	91	41	0	0	1	0	
FL KEY WEST	83	75	86	68	79	0	7	3	7	6.4	237	10.7	157	80	61	0	0	1	0	
FL MIAMI	83	70	86	66	77	0	2	7	2	10.6	236	11.5	129	85	54	0	0	1	1	
FL ORLANDO	85	62	88	52	73	-1	T	5	T	8.1	169	12.9	126	98	41	0	0	1	0	
FL TALLAHASSEE	83	55	89	41	69	0	4	5	4	14.8	168	24.9	130	97	42	0	0	2	0	
FL TAMPA	84	65	88	53	75	1	1	3	1	2.7	59	7.6	75	94	49	0	0	1	0	
FL WEST PALM BEACH	82	68	88	60	75	0	1	8	1	11.1	198	17.0	148	90	56	0	0	1	0	
GA ATLANTA	75	54	84	46	64	0	1.4	4	1.0	12.3	131	23.1	119	88	45	0	0	3	1	
GA AUGUSTA	78	54	87	45	66	0	2.3	1.6	1.8	12.2	163	20.5	127	91	49	0	0	3	1	
GA MACON	81	57	88	48	69	1	5	3	2	7.1	91	15.8	90	87	43	0	0	4	1	
GA SAVANNAH	82	59	88	51	70	2	1.6	8	1.2	8.6	134	20.7	157	89	44	0	0	3	0	
HI HILO	81	67	83	64	74	1	2.0	9	1.5	13.9	57	34.7	70	87	59	0	0	2	1	
HI HONOLULU	83	70	85	69	77	1	1.3	1.0	1.3	3.1	69	4.6	41	84	57	0	0	2	1	
HI KAHULUI	87	66	90	64	77	2	T	2	T	1.0	27	4.6	40	75	48	1	0	0	0	
HI LIHUE	82	72	85	69	77	3	1.9	1.2	1.9	3.0	42	6.8	38	81	60	0	0	2	1	
ID BOISE	53	34	65	29	44	-8	T	3	T	2.9	126	4.6	90	73	26	0	2	1	0	
ID LEWISTON	57	37	65	30	47	-6	T	3	T	2.5	125	3.5	83	69	30	0	2	1	0	
ID POCATELLO	51	31	63	22	41	-7	2	1	1	2.5	132	5.1	131	73	34	0	5	2	0	
IL CHICAGO	62	43	83	36	52	0	1.5	6	1.4	6.4	105	9.0	97	89	46	0	0	2	1	
IL MOLINE	65	42	84	30	53	-1	9	0	9	6.4	102	8.1	85	87	49	0	1	1	1	
IL PEORIA	65	45	85	32	55	0	7	2	7	8.4	133	11.3	118	89	55	0	1	2	1	
IL QUINCY	67	46	82	37	57	0	5	5	4	7.5	115	9.7	101	81	51	0	0	2	0	
IL ROCKFORD	62	41	82	34	51	-1	9	1	9	4.2	66	6.2	67	92	46	0	0	2	0	
IL SPRINGFIELD	68	48	87	35	58	1	3	6	3	8.4	124	11.0	106	89	53	0	0	2	1	
IN EVANSVILLE	74	52	84	42	63	3	8	2	4	12.2	151	15.6	108	84	43	0	0	2	0	
IN FORT WAYNE	63	44	81	35	54	1	8	0	8	6.7	110	9.4	90	91	56	0	0	2	0	
IN INDIANAPOLIS	68	46	83	38	57	1	6	2	5	6.7	100	10.9	90	87	52	0	0	4	0	
IN SOUTH BEND	62	46	80	38	54	1	7	8	1.4	6.1	88	8.5	73	80	43	0	0	3	1	
IA DES MOINES	66	42	83	35	54	-1	1.6	2	4	5.8	114	7.7	103	78	41	0	0	3	0	
IA SIOUX CITY	62	40	80	35	51	-3	5	1	4	7.2	195	8.7	164	83	40	0	0	4	0	
IA WATERLOO	63	38	81	30	51	-1	1.2	3	7	4.4	79	5.8	75	85	45	0	1	2	2	
KS CONCORDIA	64	40	79	32	52	-5	1	5	1	6.4	173	7.8	147	84	35	0	2	2	0	
KS DODGE CITY	67	39	86	31	53	-5	T	5	T	5.5	183	6.5	144	77	29	0	2	0	0	
KS GOODLAND	58	33	76	25	46	-7	T	4	T	4.3	205	6.6	220	87	33	0	2	0	0	
KS TOPEKA	70	45	85	37	58	-1	2	6	1	7.7	160	9.4	136	73	38	0	0	3	0	
KS WICHITA	68	44	82	34	56	-4	1	5	1	10.5	269	12.5	223	81	40	0	0	1	0	
KY BOWLING GREEN	74	50	83	42	62	1	1.9	9	9	10.9	121	16.9	93	91	45	0	0	4	2	
KY LEXINGTON	73	52	83	40	62	3	1.3	4	1.2	9.0	110	14.0	89	85	48	0	0	3	1	
KY LOUISVILLE	75	52	84	43	64	3	1.3	4	9	9.8	121	12.3	81	82	39	0	0	4	1	
LA ALEXANDRIA	80	60	84	48	70	0	T	1.3	T	8.2	85	22.8	111	81	48	0	0	1	0	
LA BATON ROUGE	82	61	87	49	72	1	T	1.3	T	3.0	32	12.2	63	85	39	0	0	1	0	
LA LAKE CHARLES	82	63	86	50	72	2	T	1.1	T	3.7	57	13.7	91	90	48	0	0	1	0	
LA NEW ORLEANS	80	62	86	51	71	0	2	9	2	6.7	80	16.1	83	89	46	0	0	2	0	

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

+100 = NORMAL & ACTUAL NEAR THE SAME

Weather Data for the Week Ending APRIL 28, 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	82	60	87	45	71	2		-1.2	T	5.5	70	13.9	83	85	43	0	0	1	0
ME CARIBOU	58	32	68	23	45	3		.3	T	4.2	93	9.6	102	66	31	0	1	1	0
ME PORTLAND	58	36	67	30	47	1	1.4	-.3	T	9.8	138	17.5	117	81	39	0	2	2	1
MD BALTIMORE	62	44	76	37	53	-4	.6	-.1	T	8.4	129	14.2	108	89	46	0	0	5	0
MD SALISBURY	65	45	77	38	55	-2	.7	0	T	12.1	181	18.6	133	97	50	0	0	0	0
MA BOSTON	54	40	61	31	47	-5	1.5	.7	T	10.2	142	20.5	132	89	46	0	1	2	2
MA CHATHAM	50	37	54	25	44	-4	.5	-.4	T	11.8	162	19.6	119	119	119	0	1	2	2
MI ALPENA	61	39	82	32	50	6	-.1	-.5	T	4.9	114	6.6	86	92	45	0	1	2	0
MI DETROIT	64	44	79	37	54	3	-.9	-.2	T	5.7	104	7.9	84	87	48	0	0	5	0
MI FLINT	62	41	77	33	52	2	-.9	-.2	T	4.5	79	6.5	70	88	52	0	0	2	0
MI GRAND RAPIDS	63	44	83	36	53	3	-.2	-.6	T	5.7	119	6.8	83	96	51	0	0	5	0
MI HOUGHTON LAKE	60	39	78	32	50	3	.3	-.5	T	3.0	70	5.0	68	80	50	0	1	1	0
MI LANSING	64	43	81	35	53	3	.4	-.2	T	5.1	106	6.4	76	93	48	0	0	4	0
MI MARQUETTE	59	39	69	26	49	6	.4	-.6	T	4.5	75	9.5	92	80	32	0	1	1	0
MI MUSKEGON	58	41	80	35	50	0	-.7	0	T	3.3	61	5.9	60	84	52	0	0	3	0
MI SAULT STE. MARIE	62	38	70	29	50	7	T	-.5	T	2.4	62	6.0	73	89	32	0	2	1	0
MN ALEXANDRIA	59	35	70	26	47	-1	1.3	.7	T	3.9	118	5.5	112	82	37	0	2	2	1
MN DULUTH	60	36	71	31	48	5	1.8	1.2	T	2.7	69	4.1	66	83	35	0	2	3	2
MN INT'L FALLS	60	34	71	29	47	4	.9	.5	T	1.1	44	2.1	50	80	36	0	3	4	0
MN MINNEAPOLIS	64	39	79	33	52	0	1.3	.7	T	3.7	103	6.1	115	70	30	0	0	4	1
MN ROCHESTER	61	37	78	33	49	0	.9	.2	T	3.0	77	5.2	93	92	35	0	0	3	1
MS GREENWOOD	76	58	83	44	67	0	-.6	-.7	T	12.3	113	20.2	95	84	50	0	0	2	0
MS JACKSON	81	57	85	42	69	1	-.7	-.6	T	8.5	79	16.1	76	93	44	0	0	2	0
MS MERIDIAN	79	51	83	38	65	-2	1.2	.1	T	9.5	86	17.2	80	100	48	0	0	2	1
MO CAPE GIRARDEAU	73	53	84	41	63	-1	T	-1.0	T	7.8	91	13.0	87	92	47	0	0	1	0
MO COLUMBIA	71	46	86	36	59	0	.4	-.6	T	11.3	169	15.0	139	86	47	0	0	4	0
MO KANSAS CITY	68	44	83	36	56	-3	.5	-.3	T	9.3	175	11.4	150	87	44	0	0	3	0
MO SAINT LOUIS	72	51	87	40	61	2	-.1	-.7	T	11.3	174	15.8	144	90	44	0	0	3	0
MO SPRINGFIELD	73	47	85	37	60	0	-.1	-.9	T	9.8	138	14.7	131	75	38	0	0	2	0
MT BILLINGS	46	32	64	22	39	-10	.6	-.1	T	1.8	62	3.5	78	69	34	0	4	4	0
MT GLASGOW	53	32	65	24	43	-5	T	-.3	T	.8	67	1.4	70	66	25	0	3	1	0
MT GREAT FALLS	47	28	64	17	38	-9	.4	0	T	2.1	91	3.6	84	76	34	0	6	2	0
MT HAVRE	50	28	65	19	39	-8	T	-.3	T	.5	31	1.4	56	74	28	0	5	0	0
MT HELENA	46	32	65	23	39	-7	T	-.3	T	1.8	120	2.2	81	69	33	0	4	2	0
MT KALISPELL	50	30	59	24	40	-6	-.1	-.2	T	2.8	156	4.3	91	67	27	0	5	1	0
MT MILES CITY	50	30	67	21	40	-10	.9	.5	T	1.4	74	1.5	54	82	38	0	4	4	0
MT MISSOULA	50	32	61	23	41	-6	T	-.3	T	3.3	174	4.5	107	80	31	0	3	0	0
NE GRAND ISLAND	65	40	82	32	53	-2	.1	-.6	T	8.9	217	11.3	205	79	27	0	1	2	0
NE LINCOLN	65	41	82	36	53	-2	.2	-.6	T	7.9	172	9.7	152	86	41	0	0	2	0
NE NORFOLK	64	39	83	33	51	-2	.2	-.4	T	8.1	231	11.3	226	84	31	0	0	4	0
NE NORTH PLATTE	60	33	71	26	46	-5	-.1	-.5	T	5.3	189	6.7	177	74	28	0	3	2	0
NE OMAHA	62	42	80	34	52	-3	.3	-.4	T	7.9	180	9.1	142	77	44	0	0	3	0
NE SCOTTSBLUFF	50	30	69	20	40	-10	1.5	1.1	T	5.3	230	6.2	194	83	43	0	3	4	1
NE VALENTINE	58	32	71	26	45	-6	.4	-.1	T	3.7	142	4.2	124	69	24	0	4	1	0
NV ELY	51	21	68	14	36	-8	T	-.7	T	1.9	119	2.7	84	83	33	0	7	1	0
NV LAS VEGAS	74	51	88	39	62	-5	0	0	T	0	0	0	0	27	10	0	0	0	0
NV RENO	59	31	75	26	45	-4	T	-.1	T	.5	56	1.1	33	77	20	0	5	1	0
NV WINNEMUCCA	54	26	68	19	40	-8	T	-.2	T	2.6	217	3.6	116	77	26	0	7	2	0
NH CONCORD	61	33	72	26	47	-1	.9	-.2	T	6.7	124	14.0	127	86	36	0	4	3	1
NJ ATLANTIC CITY	59	42	75	33	50	-4	1.0	.3	T	10.9	160	16.9	120	88	49	0	0	3	1
NM ALBUQUERQUE	66	34	81	28	50	-8	.2	-.2	T	.9	129	1.2	75	75	17	0	3	1	0
NM CLOVIS	70	40	82	34	55	-5	.1	-.1	T	.4	33	.8	36	51	21	0	0	1	0
NM ROSWELL	78	45	88	40	62	-3	T	-.1	T	.5	83	.5	38	41	15	0	0	0	0
NY ALBANY	59	35	73	26	47	-4	1.0	.3	T	5.7	135	11.7	110	91	49	0	3	4	0
NY BINGHAMTON	57	40	76	29	48	0	.4	-.3	T	7.3	124	12.3	109	81	46	0	1	4	0
NY BUFFALO	62	43	84	33	53	3	.8	-.1	T	4.0	71	9.2	81	83	51	0	0	3	0
NY NEW YORK	58	44	70	37	51	-4	.3	-.5	T	10.2	140	16.0	114	85	47	0	0	2	0
NY ROCHESTER	61	43	78	30	52	2	1.4	-.8	T	4.8	102	9.9	103	86	46	0	1	3	1
NY SYRACUSE	59	40	73	25	50	-1	.5	-.3	T	4.4	73	9.1	78	90	48	0	1	4	0
NC ASHEVILLE	68	43	83	34	56	-3	.9	.1	T	5.8	107	17.6	110	96	51	0	0	2	1
NC CHARLOTTE	73	46	87	40	60	-4	1.3	.6	T	10.3	137	20.2	129	87	42	0	0	2	1
NC GREENSBORO	69	45	85	37	57	-4	.8	-.1	T	8.3	126	17.1	121	87	48	0	0	3	1
NC HATTERAS	69	55	74	47	62	0	.7	0	T	7.1	109	13.8	87	87	57	0	0	2	1
NC NEW BERN	76	54	87	46	65	0	1.3	.6	T	10.8	186	19.3	133	88	49	0	0	2	1
NC RALEIGH	70	46	86	38	58	-5	1.9	1.2	T	9.9	160	20.4	149	90	48	0	0	2	2
NC WILMINGTON	76	55	86	44	66	-1	.5	-.2	T	7.6	117	15.1	106	91	48	0	0	2	0
ND BISMARCK	51	28	70	21	40	-8	2.1	1.7	T	5.3	252	6.0	207	90	43	0	6	5	2
ND FARGO	58	34	71	27	46	-2	1.0	.5	T	2.8	108	4.7	127	80	40	0	3	5	0
ND GRAND FORKS	56	35	71	26	46	-1	.9	.5	T	2.6	118	3.7	109	89	45	0	2	4	0
ND WILLISTON	54	32	71	25	43	-4	1.4	1.0	T	2.3	128	3.2	110	74	31	0	4	3	1
OH AKRON-CANTON	63	46	79	38	55	2	1.3	.5	T	5.9	98	9.9	89	88	49	0	0	4	0
OH CINCINNATI	71	48	82	37	60	2	1.2	.4	T	8.3	120	11.5	86	86	46	0	0	2	1
OH CLEVELAND	63	45	80	34	54	2	1.0	.2	T	5.9	102	10.7	96	86	46	0	0	4	0
OH COLUMBUS	67	45	83	37	56	1	1.1	.2	T	6.7	106	9.7	84	78	40	0	0	4	1

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

Weather Data for the Week Ending APRIL 28, 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
OK DAYTON	64	45	80	35	55	0	.9	0	.6	7.0	113	10.9	96	83	45	0	0	3	1
OK TOLEDO	64	44	82	37	54	2	3.4	2.7	1.4	8.1	153	10.3	108	93	51	0	0	4	3
OK YOUNGSTOWN	64	45	80	35	55	4	.5	-.3	.2	5.1	81	8.7	74	84	47	0	0	4	0
OK OKLAHOMA CITY	74	49	88	40	61	-2	.2	-.7	.2	6.3	143	7.9	113	71	33	0	0	4	0
OK TULSA	74	54	85	43	64	0	.2	-.7	.2	6.3	143	7.9	113	71	33	0	0	4	0
OR ASTORIA	55	37	62	31	46	-3	.6	-.5	.6	8.7	128	12.0	110	75	36	0	0	1	1
OR BURNS	49	28	66	23	39	-8	.3	-.5	.1	9.8	92	25.1	81	92	56	0	1	5	0
OR MEDFORD	61	36	73	30	49	-4	.1	-.2	.1	2.4	267	3.4	200	70	35	0	5	0	0
OR PENDLETON	56	37	65	33	47	-7	.1	-.2	.1	2.7	100	5.4	64	88	37	0	3	2	0
OR PORTLAND	59	39	67	36	49	-3	.1	-.2	.1	3.4	189	5.8	118	73	30	0	0	1	0
OR SALEM	60	33	66	28	47	-4	.1	-.4	.1	5.9	111	11.9	74	84	39	0	0	0	0
PA ALLENTOWN	60	41	76	33	51	-3	.1	-.4	.1	7.7	128	15.4	85	94	41	0	2	1	0
PA ERIE	63	45	79	33	54	5	.8	0	.5	4.5	71	8.5	97	86	47	0	0	5	0
PA HARRISBURG	58	40	75	34	49	-7	1.1	-.4	.4	9.2	151	14.7	120	90	46	0	4	0	1
PA PHILADELPHIA	60	42	75	36	51	-6	.8	.1	.4	10.2	148	15.1	113	89	49	0	4	0	0
PA PITTSBURGH	64	44	78	37	54	0	1.0	.2	.5	6.1	95	9.6	79	82	42	0	0	4	0
PA SCRANTON	60	42	79	30	51	-1	1.1	.4	.5	6.1	95	9.6	79	82	42	0	0	3	1
RI PROVIDENCE	58	40	68	31	49	-2	1.3	.4	.8	10.2	132	19.5	120	82	40	0	1	3	1
RI CHARLESTON	79	58	88	51	68	1	2.8	2.2	1.4	11.5	177	20.1	147	92	50	0	0	3	1
RI COLUMBIA	77	51	91	44	64	-3	1.3	.5	.7	9.2	116	18.2	106	96	44	1	0	3	2
RI FLORENCE	72	49	85	42	61	-3	1.5	.5	1.1	10.1	155	17.4	125	98	47	0	0	3	1
RI GREENVILLE	72	49	85	42	61	-3	1.5	.5	1.1	10.2	106	20.4	107	85	45	0	0	2	1
SD ABERDEEN	58	36	70	30	47	-3	1.2	.7	.8	4.3	154	5.7	143	78	35	0	3	3	1
SD HURON	60	37	70	31	48	-2	.4	-.1	.3	3.7	128	5.3	126	91	39	0	3	2	0
SD RAPID CITY	51	29	74	22	40	-9	2.3	1.8	1.5	3.7	132	4.1	105	81	39	0	5	2	0
SD SIOUX FALLS	63	36	80	30	50	-2	.8	.2	.4	6.3	175	8.1	162	90	36	0	3	5	0
TN CHATTANOOGA	73	51	87	41	62	-1	2.2	1.2	1.2	9.0	90	16.7	80	91	44	0	0	4	2
TN KNOXVILLE	74	52	86	43	63	0	1.2	.4	.6	6.8	80	13.6	75	92	53	0	0	4	1
TN MEMPHIS	76	58	85	46	67	1	1.6	.2	1.6	10.4	100	16.8	84	80	44	0	0	4	1
TN NASHVILLE	75	52	84	42	64	1	2.5	1.5	1.2	10.8	117	15.0	81	88	42	0	0	4	2
TX ABILENE	85	53	96	39	69	1	0	-.7	0	.7	22	2.2	42	58	15	3	0	0	0
TX AMARILLO	71	39	84	32	55	-5	0	-.3	0	1.4	78	2.4	86	54	18	0	1	0	0
TX AUSTIN	87	63	96	55	75	4	T	-.9	T	2.5	58	5.2	60	67	28	2	0	0	0
TX BEAUMONT	79	64	81	52	72	0	T	-1.0	T	2.9	46	13.6	94	96	60	0	0	1	0
TX BROWNSVILLE	90	69	102	59	79	3	0	-.4	0	.1	5	5.4	110	89	42	3	0	0	0
TX CORPUS CHRISTI	86	64	102	51	75	0	T	-.6	T	.2	7	6.6	106	91	43	1	0	0	0
TX DEL RIO	89	61	97	50	75	1	0	-.5	0	0	0	1.6	44	52	18	3	0	0	0
TX EL PASO	80	43	87	35	62	-5	0	-.1	0	.4	80	.7	54	41	11	0	0	0	0
TX FORT WORTH	82	57	91	46	69	0	0	-.7	T	6.1	111	10.2	111	73	29	1	0	1	0
TX GALVESTON	76	67	79	60	72	0	T	-.9	T	1.4	31	5.6	56	94	67	0	0	1	0
TX HOUSTON	82	6	87	47	71	0	T	-1.1	T	2.9	45	11.1	83	85	43	0	0	1	0
TX LUBBOCK	78	45	88	37	62	-2	0	-.3	0	.5	26	.7	25	48	16	0	0	0	0
TX MIDLAND	84	50	93	38	67	0	0	-.3	0	0	0	.6	27	49	11	2	0	0	0
TX SAN ANGELO	87	52	96	40	69	0	0	-.5	0	.7	29	.6	27	48	11	2	0	0	0
TX SAN ANTONIO	87	60	97	49	74	2	T	-.8	T	2.0	51	4.3	58	76	26	1	0	1	0
TX VICTORIA	85	65	94	50	75	1	T	-.8	T	1.9	50	6.4	76	83	43	1	0	1	0
TX WACO	86	56	92	40	71	1	0	-1.0	0	4.0	74	5.8	61	79	32	2	0	0	0
TX WICHITA FALLS	83	51	96	41	67	0	T	-.8	T	2.0	43	3.0	43	60	20	3	0	0	0
UT BLANDING	55	26	71	18	41	-10	.2	-.1	.2	1.4	108	2.1	54	73	29	0	4	2	0
UT CEDAR CITY	55	27	68	20	41	-9	T	-.2	T	2.8	147	4.3	116	79	25	0	6	1	0
UT SALT LAKE CITY	54	37	67	32	46	-7	1.1	-.6	.5	5.8	161	7.2	113	81	43	0	1	3	1
VT BURLINGTON	59	35	73	22	47	-1	.5	-.2	.5	5.1	106	8.9	102	82	38	0	2	2	0
VA NORFOLK	67	49	78	42	58	-3	1.8	1.1	1.0	12.4	203	20.0	146	79	44	0	0	2	2
VA RICHMOND	69	46	86	41	57	-4	2.0	1.3	1.7	14.7	245	22.8	177	89	40	0	0	2	2
VA ROANOKE	69	47	89	37	58	-1	.9	.1	.7	8.2	128	14.5	112	83	48	0	0	1	1
WA COLVILLE	54	30	58	24	42	-7	T	-.3	T	4.5	225	7.5	129	70	39	0	5	3	1
WA QUILLAYUTE	57	35	64	29	46	-2	.8	-.6	.5	15.6	93	48.6	107	96	45	0	3	3	0
WA SEATTLE-TACOMA	56	39	64	36	48	-3	.2	-.3	.1	6.3	117	13.8	86	85	37	0	0	3	0
WA SPOKANE	52	31	57	21	42	-7	.1	-.2	.1	3.0	150	5.5	89	74	32	0	3	1	0
WV YAKIMA	59	34	65	27	47	-5	T	-.1	T	1.9	190	2.9	88	66	26	0	3	1	0
WV BECKLEY	66	44	83	35	55	0	1.5	.7	.9	4.9	69	10.5	72	91	49	0	0	4	2
WV CHARLESTON	73	48	90	36	60	1	1.5	.6	1.2	6.8	97	11.0	77	78	40	1	0	2	1
WV HUNTINGTON	73	49	89	39	61	2	1.2	.4	1.2	6.9	97	10.7	79	83	42	0	0	2	1
WV PARKERSBURG	70	48	84	43	59	2	1.2	.4	1.0	7.2	107	9.9	69	90	43	0	0	4	1
WI GREEN BAY	58	40	74	33	49	1	1.1	.4	.5	3.6	82	5.7	85	93	53	0	4	1	1
WI LA CROSSE	65	39	80	32	52	0	1.7	1.0	1.2	5.0	106	6.0	90	86	31	0	1	2	2
WI MADISON	61	40	80	33	50	0	.7	-.1	.4	3.2	64	4.8	66	83	44	0	0	3	0
WI MILWAUKEE	60	44	77	36	52	4	1.4	.7	1.0	5.4	96	7.5	84	77	46	0	0	4	1
WI WAUSAU	63	40	78	34	51	3	.6	-.2	.4	2.7	60	4.6	72	83	30	0	0	2	0
WY CASPER	46	22	65	13	34	-12	.9	.4	.4	3.6	150	5.4	150	89	44	0	7	4	0
WY CHEYENNE	41	22	52	13	31	-14	.8	.5	.4	5.1	232	6.5	191	90	52	0	7	3	0
WY LANDER	46	25	63	14	36	-10	1.9	1.3	1.1	4.1	132	6.4	152	82	43	0	6	3	2
WY SHERIDAN	47	26	67	15	37	-10	1.8	1.2	1.0	3.6	129	4.7	107	81	42	0	6	3	2
PR SAN JUAN	90	73	92	69	81	2	.1	-.9	.1	1.1	20	6.3	57	79	47	3	0	2	0

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

HEATING DEGREE DAY DATA WEEKLY SUMMARY
 CLIMATE ANALYSIS CENTER-NMC-NWS-NOAA
 ASSESSMENT AND INFORMATION SERVICES CENTER-NESDIS-NOAA

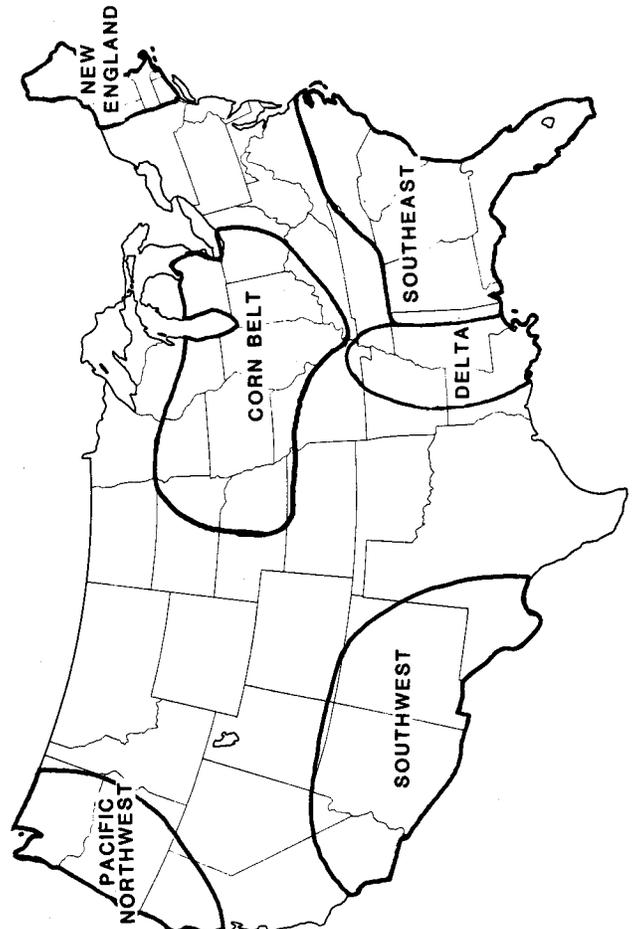
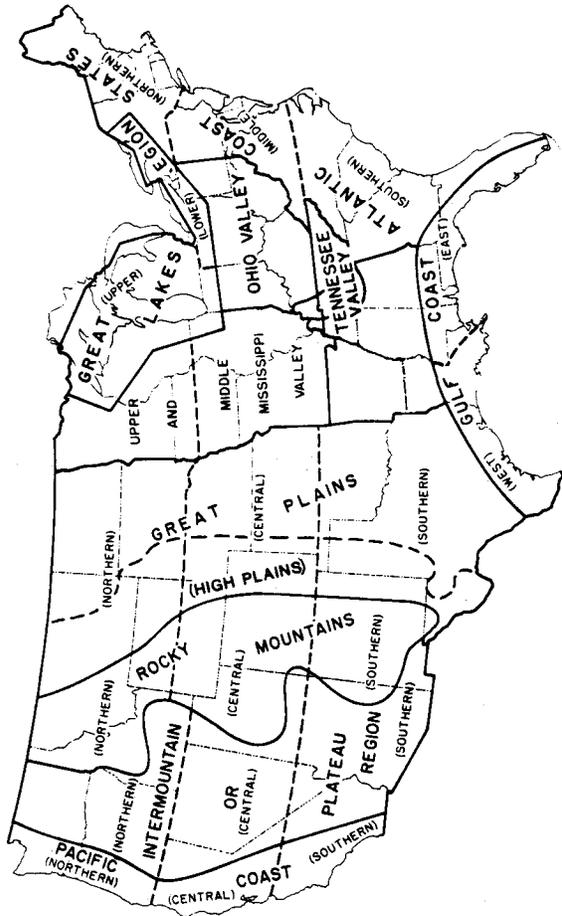
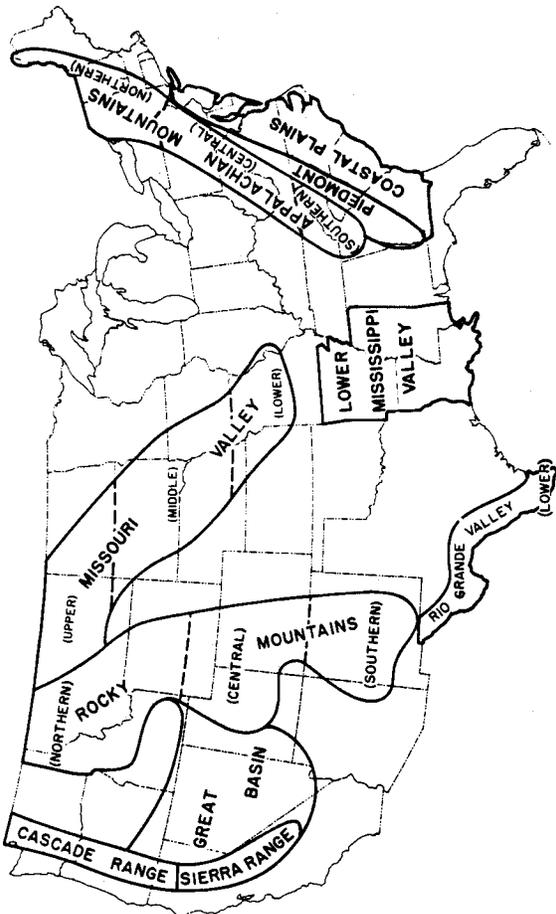
LAST DATE OF DATA COLLECTION PERIOD IS 4-28-1984

ACCUMULATIONS ARE FROM JULY 1

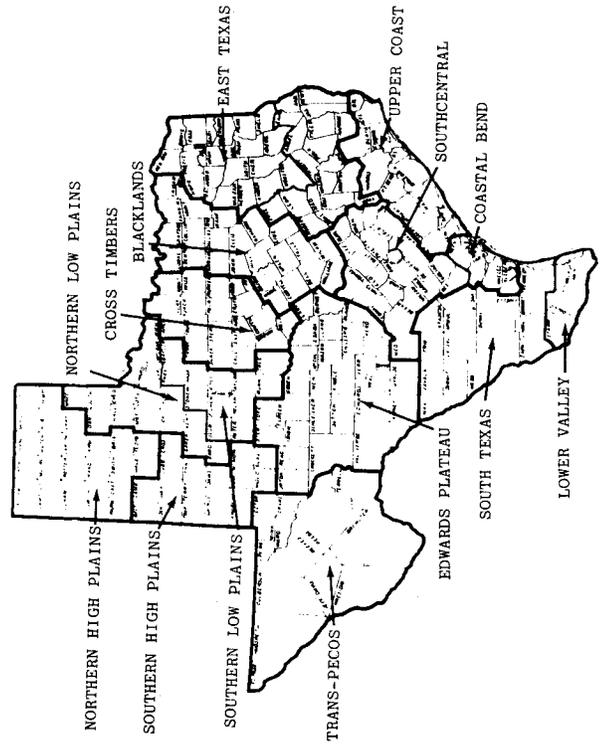
** = NORMAL LESS THAN 100 OR RATIO INCALCULABLE

STATE CITY	CALL	WEEK TOTAL	WEEK DEV FROM NORM	WEEK DEV FROM L YR	CUM TOTAL	CUM DEV FROM NORM	CUM DEV FROM L YR	CUM DEV FROM PRCT	CUM DEV FROM L YR	STATE CITY	CALL	WEEK TOTAL	WEEK DEV FROM NORM	WEEK DEV FROM L YR	CUM TOTAL	CUM DEV FROM NORM	CUM DEV FROM L YR	CUM DEV FROM PRCT	CUM DEV FROM L YR
AL BIRMINGHAM	BHM	18	4	-25	3165	340	292	12	10	MT MILES CITY	MLS	174	66	77	7079	-445	431	-6	6
AL MOBILE	MOB	3	0	-11	2071	376	171	22	9	MT MISSOULA	MSO	166	41	52	7231	-13	621	0	9
AL MONTGOMERY	MCM	10	3	-19	2393	127	258	6	12	NE GRAND ISLAND	GRI	84	11	-4	6569	274	417	4	7
AK ANCHORAGE	ANC	164	-14	9	8969	-925	-521	-9	-5	NE LINCOLN	LNK	84	18	13	6506	295	686	5	12
AK BARROW	BRW	486	66	179	18504	371	512	3	3	NE NORFOLK	ONK	94	14	16	7029	224	741	3	12
AK FAIRBANKS	FAI	204	12	84	12836	-694	496	-5	4	NE NORTH PLATTE	LBF	128	35	29	6995	391	785	6	13
AK JUNEAU	JNU	160	-1	48	7381	-759	117	-9	2	NE OMAHA	ON4	93	31	33	6804	764	789	13	13
AK KODIAK	KDU	198	21	56	6865	-812	125	-1	2	NE VALLENTINE	VTN	138	35	24	7249	216	810	3	13
AK NOME	OME	299	10	85	12404	-433	1032	3	9	NY ELY	ELY	200	53	53	6724	-296	-204	-4	-3
AZ FLAGSTAFF	FLG	197	53	43	6054	-518	-674	-8	-10	NV LAS VEGAS	LAS	35	15	25	2094	-414	-408	-17	-16
AZ PHOENIX	PHX	13	8	13	787	-655	-269	-45	-25	NV RENO	RNO	140	29	-1	4920	-642	-764	-12	-13
AZ TUCSON	TUS	31	21	25	1518	-206	-265	-12	-15	NV WINKNEMUCCA	WMC	175	58	46	5917	-17	66	0	1
AZ WINSLOW	INW	106	43	87	4387	-302	356	-6	9	NH CONCORD	CON	126	7	21	7046	-39	670	-1	11
AZ YUMA	YUM	12	7	12	506	-477	-182	-49	-26	NJ ATLANTIC CITY	ACY	101	26	37	5088	202	617	4	14
AR FORT SMITH	FSM	29	12	0	3913	471	436	14	13	NM ALBUQUERQUE	ABQ	103	53	67	4217	-110	-319	-3	-7
AR LITTLE ROCK	LM1	17	3	-15	3614	481	341	15	10	NM ROSWELL	ROW	33	17	19	3285	173	-297	6	-8
CA BAKERSFIELD	BFL	50	28	20	2029	-55	-340	-3	-14	NY ALBANY	ALB	125	25	16	6704	81	665	1	11
CA EUREKA	EKA	102	-3	2	2969	-1036	-65	-26	-2	NY BINGHAMTON	BGM	113	-3	-12	6734	-202	588	-3	10
CA FRESNO	FAT	35	4	5	1963	-622	-493	-24	-20	NY BUFFALO	BGF	89	-21	-33	6566	120	798	2	14
CA LOS ANGELES	LAX	29	-10	-5	967	-473	-193	-33	-17	NY NEW YORK	LGA	96	29	31	4958	201	595	4	14
CA RED BLUFF	RBL	47	9	-37	2404	-206	-130	-8	-5	NY ROCHESTER	ROC	91	-14	-37	6487	97	785	2	14
CA SAN DIEGO	SAN	16	-7	8	524	-642	-202	-55	-28	NY SYRACUSE	SYR	107	3	-20	6921	464	771	7	13
CA SAN FRANCISCO	SFO	62	-3	-11	1946	-841	-683	-30	-26	NC ASHEVILLE	AVL	62	15	-29	4599	249	321	6	8
CA STOCKTON	SCK	39	7	-30	2303	-307	-341	-12	-13	NC CAPE HATTERAS	HAT	21	-8	-18	2781	139	387	5	16
CO DENVER	DEN	170	71	75	6279	605	369	11	6	NC CHARLOTTE	CLT	44	23	-17	3535	246	186	7	6
CO GRAND JUNCTION	GJT	130	60	82	5358	-170	549	-3	11	NC CHARLOTTE	CLT	44	23	-17	3535	246	186	7	6
CO PUEBLO	PUB	120	47	57	5654	384	392	7	7	NC GREENSBORO	GSO	62	30	1	4113	316	234	8	6
CT BRIDGEPORT	BDP	102	11	7	5362	113	411	2	8	NC RALEIGH DURHAM	NDU	56	32	6	3735	260	330	7	10
CT HARTFORD	BDL	106	20	20	6085	139	589	2	11	NC WILMINGTON	ILM	12	4	-23	2581	123	-22	5	-1
DE WILMINGTON	ILG	94	30	34	5260	418	959	9	22	ND BISMARCK	BIS	175	53	55	8410	-223	787	-3	10
DC WASHINGTON	DCA	61	21	2	4174	124	524	3	14	ND FARGO	FAR	132	11	23	8633	-301	653	-3	8
FL APALACHICOLA	ACQ	5	2	-9	1685	275	283	20	20	ND WILLISTON	ISN	151	26	29	8137	-645	207	-7	3
FL DAYTONA BEACH	DAB	0	0	-14	1108	207	127	23	13	OH AKRON-CANTON	CAK	75	-14	-7	6022	63	903	1	18
FL FORT MEYER	FMY	0	0	-1	385	-55	31	-13	9	OH CLEVELAND	CLE	76	-17	-4	6339	438	1274	7	25
FL JACKSONVILLE	JAX	0	-1	-19	1557	150	19	11	1	OH COLUMBUS	CMH	66	-4	-11	5840	361	927	7	19
FL KEY WEST	KEY	0	0	0	78	-38	33	-33	73	OH CINCINNATI	CVG	48	-12	-19	5648	563	1183	11	26
FL MIAMI	MIA	0	0	0	186	-12	47	-6	34	OH DAYTON	DAY	75	7	0	6168	672	1107	12	22
FL ORLANDO	MCO	0	0	-2	759	101	124	15	20	OH TOLEDO	TOL	80	-13	-13	6762	480	1044	8	18
FL TALLAHASSEE	TLH	5	2	-13	1616	163	262	10	17	OH YOUNGSTOWN	YNG	77	-21	-7	6327	94	1146	2	22
FL TAMPA	TPA	0	0	-3	727	-12	101	-2	16	OK OKLAHOMA CITY	OKC	38	13	14	4118	428	517	12	14
FL WEST PALM BEACH	PBI	0	0	0	297	34	59	13	25	OK TULSA	TUL	33	11	13	3862	174	393	5	11
GA ATLANTA	ATL	14	-4	-36	3253	275	251	9	8	OR ASTORIA	AST	134	23	50	4386	-198	707	-4	19
GA AUGUSTA	AGS	7	-2	-26	2618	68	83	3	3	OR BURNS	4BM	183	51	27	7446	1020	832	16	13
GA MACON	MCM	3	-1	-21	2330	61	206	3	10	OR MEDFORD	MFR	114	27	1	4132	-325	-23	-7	-1
GA SAVANNAH	SAV	1	1	-18	1901	-20	87	-1	5	OR PENDELTON	PDR	128	44	32	5096	139	467	3	10
HI HILO-HAWAII	IHO	0	0	0	0	0	0	**	**	OR PORTLAND	PDX	109	21	45	3848	-450	226	-10	6
HI HONOLULU-OAHI	HNL	0	0	0	0	0	0	**	**	OR SALEM	SLE	129	29	43	4001	-492	-6	-11	0
HI KAHULUI-MAUI	OGG	0	0	0	0	0	0	**	**	PA ALLENTOWN	ABE	98	19	11	5745	139	678	2	13
HI LIHUE-KAUAI	LIH	0	0	0	0	0	0	**	**	PA ALLIANCE	ERI	82	-33	-28	6120	-230	803	-4	15
ID BOISE	BOI	148	54	47	6039	584	855	11	16	PA HARRISBURG	CXY	103	39	26	5762	595	1054	12	22
ID LEWISTON	LWS	122	39	30	4999	-120	385	-2	8	PA PHILADELPHIA	PHL	96	37	19	5162	349	703	7	16
ID POCASTELLO	PIH	167	48	34	7215	584	856	9	13	PA PITTSBURGH	PIT	80	1	-4	5979	269	836	5	16
IL CHICAGO	ORD	93	7	-1	6815	633	972	10	17	PA SCRANTON	AVP	97	7	-18	6063	-10	421	0	7
IL MOLINE	MLI	89	17	29	6489	198	892	3	16	RI PROVIDENCE	PVD	110	14	26	5441	-185	462	-3	10
IL PEORIA	PIA	80	13	28	6237	217	972	4	18	SC CHARLESTON	CHS	4	-3	-19	2028	-112	33	-5	2
IL ROCKFORD	RFD	97	8	20	7048	350	1012	5	17	SC COLUMBIA	CAE	15	8	-27	2916	310	96	12	3
IL SPRINGFIELD	SPI	61	3	10	6032	547	956	10	19	SC GREENVILLE	GSP	37	16	-31	3605	409	347	13	11
IN EVANSVILLE	EVV	29	-13	-30	4960	343	965	7	24	SD ABERDEEN	ABR	126	19	25	7878	-325	809	-4	11
IN FORT WAYNE	FWA	83	0	19	6305	236	1159	4	23	SD HURON	HON	116	13	19	7464	-315	854	-4	13
IN INDIANAPOLIS	IND	57	-7	-10	5856	388	957	7	20	SD RAPID CITY	RAP	174	61	63	6807	-84	609	-1	10
IN SOUTH BEND	SNB	81	-8	7	6380	274	1081	4	20	SD SIOUX FALLS	FSO	108	11	16	7761	182	667	2	9
IA DES MOINES	DSM	84	15	34	6651	278	960	4	17	TN CHATTANOOGA	CHA	25	3	-36	3852	334	457	9	15
IA DUBUQUE	DBQ	106	14	39	7242	152	837	2	13	TN KNOXVILLE	TYS	21	-7	-57	3933	341	335	9	9
IA SIOUX CITY	SUX	97	22	21	7024	268	554	4	9	TN MEMPHIS	MEM	16	2	-21	3383	203	406	6	14
KS CONCORDIA	CNK	89	30	11	5983	529	423	10	8	TN NASHVILLE	BNA	24	-3	-28	3986	288	606	8	18
KS DODGE CITY	DDC	85	29	20	5380	466	598	9	13	TX ABILENE	ABI	11	3	1	2868	264	117	10	4
KS GOODLAND	GLD	135	48	50	6393	563	833	10	15	TX AMARILLO	AMA	70	26	36	4693	562	162	14	4
KS TOPEKA	TOP	63	11	10	5535	344	678	7	14	TX AUSTIN	AUS	0	-3	-1	1879	118	-44	7	-2
KS WICHITA	ICT	66	24	0	5319	631	500	13	10	TX BROWNSVILLE	BRO	0	0	0	866	257	336	42	63
KY LEXINGTON	LEX	36	-15	-26	4945	269	697	6	16	TX CORPUS CHRISTI	CRP	0	0	-1	1271	301	252	31	25
KY LOUISVILLE	SDF	27	-15	-27	4777	359	669	8	16	TX DEL RIO	DRT	0	0	0	1731	221	210	15	14
LA BATON ROUGE	BTR	2	1	-8	2014	340	246	20	14	TX EL PASO	ELP	28	20	18	2482	-181	-356	-7	-13
LA NEW CHARLES	LSH	0	0	0	1635	56	2	4	0	TX FORT WORTH	DFW	7	0	0	2825	522	294	23	12
LA LAKE ORLEANS	MSY	1	1	-6	1833	344	361	23	25	TX GALVESTON	GLS	0	0	0	1429	175	187	14	15
LA SHREVEPORT	SHV	6	-1	-12	2733	474	277	21	11	TX HOUSTON	IAH	1	-2	-4	1847	298	173	19	10
ME CARIBOU	CAR	138	-24	6	8736	-250	534	-3	7	TX LUBBOCK	LBB	33	8	14	3598	120	-267	3	-7
ME PORTLAND	PWM	125	-6	2	6768	-231	410	-3	6	TX MIDLAND ODESSA	MAF	18	5	11	2866	215	10	8	0
MD BALTIMORE	BWI	84																	

AREA NAMES COMMONLY USED IN WEEKLY WEATHER & CROP BULLETIN



TEXAS



April 23 to 29

HIGHLIGHTS: Excess soil moisture caused further delays in land preparation and planting from the northern and central Plains through much of the eastern half of the Nation. Fieldwork was generally 1 to 2 weeks behind schedule across much of the Corn Belt. Farmers in this region had only 2 days suitable for field activities. In the East, growers had 3 to 4 days suitable for fieldwork. Western producers generally had a clear, dry week for planting. Soil moisture was rated short in dryland areas of the Southwest and in portions of the southern Plains, but supplies were mostly adequate to surplus elsewhere across the Nation.

Winter wheat was in mostly fair to good condition. Stands were 6% headed, compared with the 10% average. Spring wheat seeding was 30% complete in the five major producing States, 5 points behind average. Corn planting reached 5% completion in the 17 major producing States, trailing the average of 13%. Sorghum planting advanced northward into Oklahoma and Missouri; 22% was planted in the seven major producing States, 1 point behind average. Cotton producers in the 14 major producing States planted 27% of the acreage, compared with 22% a year earlier and the 31% average. Rice planting advanced to 38% finished in the five major producing States. Twenty-one percent of the rice crop had emerged. Soybean planting began across the South. Pastures and ranges were in fair to mostly good condition except in the Southwest where conditions were poor. A major spring storm with heavy snow caused abnormally high livestock losses in parts of Montana, North Dakota, South Dakota, and Wyoming. Elsewhere livestock continued in fair to mostly good condition.

SMALL GRAINS: Winter wheat was in mostly fair to good condition, except in dryland areas of Texas and the Southwest where stands were rated poor. Heading was confined to California and the southern Plains, reaching 6% in the 15 major producing States, compared with the 10% average. Heading was slower than normal except in California and Texas. Stands were jointing through the central third of the Nation.

Kansas winter wheat was 30% jointed, half the normal progress. Stands were rated fair to good, except in the northwest and north-central regions where conditions were poor. Wind sapped soil moisture in Oklahoma and caused some light damage to small grains. Five percent of the winter wheat was headed, compared with the 25% average. Texas wheat was 29% headed, equaling the average. Stands were stressed by warm, dry, windy weather.

Spring wheat seeding advanced to 30% completion in the five major producing States, 5 points behind average. Seeding progress ranged from 13% in North Dakota to 52% in Idaho. Planting lagged in all States except Minnesota and Montana.

CORN: Corn planting in the 17 major producing States reached 5% completion, 8 points behind the average progress. All States trailed their normal progress for this date. Wet soil conditions hampered land preparation and planting in nearly all producing regions. Planting was underway in all States, except Michigan, Nebraska, Pennsylvania, and South Dakota. Emerged fields were in fair to mostly good condition.

SORGHUM: Sorghum planting crept as far north as Missouri. Texas producers had planted 62%, while Oklahoma and Missouri growers were 2% and 1% finished, respectively. Progress was 3 points behind normal in each of the States.

COTTON: Cotton planting gained momentum as producers in the 14 major producing States seeded 27% of the acreage. This compares with 22% last year and the 31% average. Planting was behind in all States except Arizona, California, Louisiana, and New Mexico. Oklahoma was the only State where planting had not begun.

OTHER CROPS: Soybean planting became more widespread across the South. Progress ranged from just beginning in Louisiana to 5% finished in Arkansas.

Rice seeding in the five major producing States reached 38% completion, 8 points faster than a year earlier. Progress lagged normal in all States except Louisiana and Texas. California growers lagged the average by 20 points, and Mississippi producers were 18 points behind average. Rice had emerged on 21% of the acreage, compared with 15% last year.

Peanut planting became more widespread. Producers were 4% finished in Virginia, 7% in Texas, 10% in Mississippi, 24% in Georgia, and 27% complete in Alabama. All States were behind normal except Alabama.

Tobacco transplanting continued mainly in the Southeast. Progress ranged from 18% finished in North Carolina to complete in Florida.

FRUITS AND NUTS: Apples, peaches, and strawberries began blooming as far north as New Jersey in the Northeast, and Washington in the Northwest. Fruit trees made normal progress in the Lake States. Apples and peaches were rated mostly good in the Southeast.

Florida's citrus growers continued major pruning of freeze-damaged groves. Producers irrigated to maintain good growth. Valencia orange picking increased, while most grapefruit were shipped from Indian River and St. Lucie counties.

Texas producers continued pruning and irrigating citrus orchards. Grapefruit and Valencia oranges were picked on a limited scale in Arizona. Lemons were picked to fill orders, while the tangerine harvest was practically finished.

High winds caused moderate limb breakage in California orchards. The Coachella Valley table grape harvest is expected to begin in a couple of weeks. Citrus groves continued to bloom. Valencia orange and grapefruit picking continued active.

VEGETABLES: Vegetable planting got underway in northern growing areas. New Jersey growers began light harvesting of asparagus.

Florida's vegetable shipments rose 3% from the previous week. The only crops declining in volume were snap beans, cabbage, cauliflower, celery, escarole, lettuce, peppers, strawberries, and tomatoes. Potato digging was active and watermelon cutting got underway.

In Texas, the harvest of carrots, cabbage, and onions continued. All vegetables made good growth with warm weather, but irrigation was necessary to relieve dry conditions in many areas. Arizona's mixed vegetable harvest continued with steady volumes. Lettuce packing slowed because of limited market demand.

California growers harvested a wide variety of vegetables. Field preparation and planting progressed under generally sunny, dry conditions. Lettuce harvesting was past peak volumes in the San Joaquin Valley and was increasing along the central coast. Strawberry picking was increasing.

PASTURES AND LIVESTOCK: Winds dried ranges and pastures from California to Texas. Ranges were
(continued on p. 20)

CROP PROGRESS

FOR WEEK ENDING APR 29

	CORN % PLANTED		
	1984	1983	AVG.
COLO	2	12	30
GA	90	85	91
ILL	1	11	12
IND	2	6	4
IOWA	3	7	8
KANS	5	5	20
KY	9	6	22
MICH	0	2	4
MINN	4	5	7
MO	5	10	25
NEBR	0	2	10
N C	34	30	69
OHIO	1	10	15
PA	0	3	5
S DAK	0	0	0
VA	34	29	43
WIS	1	0	1
17 STATES	5	8	13

THESE 17 STATES PRODUCED 90%
OF THE 1983 CORN CROP.

	COTTON % PLANTED		
	1984	1983	AVG.
ALA	28	12	43
ARIZ	91	85	82
ARK	7	8	19
CALIF	95	75	90
GA	18	23	54
LA	19	8	18
MISS	12	15	24
MO	3	5	13
N MEX	34	20	34
N C	8	11	33
OKLA	0	0	1
S C	32	29	61
TENN	2	5	20
TEX	14	11	17
14 STATES	27	22	31

THESE 14 STATES PRODUCED 99%
OF THE 1983 COTTON CROP.

	WINTER WHEAT % HEADED		
	1984	1983	AVG.
CALIF	85	70	76
COLO	0	0	0
IDAHO	0	0	0
ILL	0	0	4
IND	0	0	0
KANS	0	0	0
MO	0	0	13
MONT	0	0	0
NEBR	0	0	0
OHIO	0	0	0
OKLA	5	10	25
OREG	0	0	0
S DAK	0	0	0
TEX	29	32	29
WASH	0	0	0
15 STATES	6	7	10

THESE 15 STATES PRODUCED 84%
OF THE 1983 WINTER WHEAT CROP.

	RICE % PLANTED		
	1984	1983	AVG.
ARK	20	14	28
CALIF	5	3	25
LA	66	52	65
MISS	23	16	41
TEX	98	87	87
5 STATES	38	30	44

THESE 5 STATES PRODUCED 98%
OF THE 1983 RICE CROP.

	RICE % EMERGED		
	1984	1983	AVG.
ARK	2	2	15
CALIF	0	0	2
LA	56	37	54
MISS	1	3	14
TEX	62	47	52
5 STATES	21	15	26

THESE 5 STATES PRODUCED 98%
OF THE 1983 RICE CROP.

	SPRING WHEAT % PLANTED		
	1984	1983	AVG.
IDAHO	52	67	65
MINN	40	20	39
MONT	50	50	35
N D	13	12	24
S DAK	35	30	56
5 STATES	30	25	35

THESE 5 STATES PRODUCED 94%
OF THE 1983 SPRING WHEAT CROP.

	SORGHUM % PLANTED		
	1984	1983	AVG.
COLO	0	0	0
KANS	0	0	0
MO	1	0	4
NEBR	0	0	0
OKLA	2	3	5
S DAK	0	0	0
TEX	62	66	65
7 STATES	22	23	23

THESE 7 STATES PRODUCED 85%
OF THE 1983 SORGHUM CROP.

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 1 to 2° above normal. Rain 2.00 to 3.00 in. north and west central, under 1.00 in. elsewhere.

Soil moisture adequate to surplus. Fieldwork: 4.2 days. Corn planted 54%, 57% 1983, 70% average. Cotton planted 28%, 12% 1983, 43% average. Wheat seeded 62%, 38% 1983, 64% average. Peanuts planted 27%, 6% 1983, 27% average. Sorghum planted 18%, 4% 1983. Activities: Routine care of livestock and poultry; spraying fruit trees; planting corn, cotton, peanuts and sorghum; spreading fertilizer and seed bed preparation. Conditions: Livestock, wheat and pastures mostly good. Pasture feed mostly adequate, stored feed mostly short.

ARIZONA: Almost stationary cold storm system prevailed 25th through 28th. Precipitation first three days confined mostly to White Mountains, only light amounts remainder of eastern half. Snow level 4,000 ft. with 4 to 26 in. in White Mountains. Shower, thunderstorm activity on 28th primarily over eastern two-thirds. Weekly amounts ranged from over 0.10 in. to 1.00 in. Isolated rain south central, three funnel clouds

sighted just west of Superstition Mountains. Very cold air behind cold front on 25th lowered maximum temperatures by 10 to 25°. Mostly sunny, warm prior to storm. Average temperatures varied from 2 to 9° below seasonal normals.

Occasional rains refreshed ranges, pastures following extended dry spell. Northern ranges adequate stock water. Soil moisture, range feed below average. Cattle, sheep fair to good. Soil moisture improved midelevation, southeast, range feed below average. Desert areas remain dry with little feed, most cattle moved elsewhere. Light insect damage Gila, Graham Counties. Cotton 91% seeded, 85% last year, 82% average. Seeding progress ranged from 65% in southeast, 93% Central Valley, 97% west. Some replanting central, west as result of soil crusting, low temperatures, varying weather conditions. Some plant damage on lighter soils central, west from strong winds, blowing sand. Plant growth slowed by cool temperatures. Wheat, barley, good condition, most of acreage headed, 35 to 49% turning color. Harvest underway in earlier planted fields Yuma County. Harvest of Poco, early maturing barley, started limited scale Maricopa County. Some wheat lodging from strong

winds La Paz County. Alfalfa harvest active, west, increased Central Valley. Alfalfa good condition, many growers irrigating, using weed, insect controls as needed. Spring lettuce packing complete Yuma, Parker-Poston, winding down Marana. Packing continued on limited scale Salt River Valley as result of slow lettuce market. Some fields ready for harvest passed over or disked up for lack of market. Harvest expected to start Willcox by May 11. Mixed vegetable harvests active Salt River Valley, greens, cabbage, carrots, green onions moving in volume. Harvest of potatoes active, quality excellent. Grapefruit, Valencias picked on limited scale. Few lemons picked on order, tangerine harvest practically finished.

ARKANSAS: Cool dry weather, at times warm and humid. Temperatures near normal. Moderate rainfall east, little or none west. High 90°, low 31°. Rain from 1.99 in. to none, most stations 0.50 in. or less.

Field activity finally underway. Nearly 6.0 days favorable for fieldwork. Soil moisture adequate. Crop progress moderate. Rice condition fair to good; planted 20%, 14% 1983, 28% average; emerged below 5%, 15% normal. Cotton fair condition; planted 7%, 8% 1983, 19% normal; just emerging, 10% average. Soybeans planted below 5%, 5% average. Winter wheat good condition, late boot to early heading stage. Oats good to poor. Corn 67% planted, 55% average; good condition. Sorghum good to fair; planted 33%, normal 29%. Pastures improving. Grazing near normal. Cattle condition fair to good.

CALIFORNIA: Weekly mean temperatures were as much as 4° below normal in the Sacramento Valley and as much as 6° below normal in the San Joaquin. The Sierra-Cascade nearly 10° below normal. Cold, arctic air replaced the near record-setting warmth of the previous week. The dry air let Sacramento drainage temperatures drop into the 30's on the valley floor and into the 20's on the east side foothills. Only the South Coast was warmer than normal.

Wind reduced moisture, lodged some small grains. Some emerged cotton damaged, replanting likely. Seed shortage reported. About 95% planted, 75% last year, 90% average. Wheat, barley planting north, mostly complete. Early planted emerging. Flooding, seeding, rice continues, 5% planted, 3% last year, 25% average, 0% emerged, 0% last year, 2% average. Wet field slowed activity Sacramento Valley. Wheat, barley irrigated central valleys. Winter wheat 85% headed, 70% last year, 76% average. Good growth alfalfa. Field corn progressing eastern San Joaquin, 8 in. stands. Sugarbeets irrigated, some digging last year's crop. Oat hay cut, baled. Small grain Desert area disced up, pastured, lack of rain. Spraying for insect, disease control. Light frost occurred in central coastal counties, no damage reported. Some pruning of cherries to insure larger size fruit. Some wind damage reported grapes. Central Valley pre-bloom applications gibberellic acid made to table grapes. Coachella Valley table grape harvest expected to be underway in couple weeks. Stone fruit orchards received moderate wind damage with limbs breaking, fruit scarring likely. Fruit continues to size nicely and later varieties thinned. Pomegranates blooming. Citrus bloom continues, petal fall increasing. Desert grapefruit harvest continues with good quality and fair demand. Central Valley grapefruit harvest underway. Valencia orange harvest continues slowly as fruit being packed limited volume for foreign, domestic markets. Quality reported good to excellent. Some areas reported almond trees down and limbs torn from trunk.

Some nuts have also dropped. No damage reported for other nut crops. Artichoke volume seasonally heavy. Asparagus volume heavy Delta, Salinas, and San Joaquin Valleys. Broccoli, cauliflower harvest fairly heavy Central Coast. Melon planting continued Sacramento, San Joaquin Valleys. Desert melons setting fruit. Celery harvest slowed South Coast, planting active Central Coast. Sweet corn harvest starting Coachella Valley. Lettuce harvest past peak San Joaquin Valley, increasing Central Coast. Shipment dry market onions started Imperial Valley. Processing pea harvest active San Joaquin Valley. Spring potato harvest increasing Kern district. Fall potato movement decreasing Tulalake-Butte Valley. Strawberry harvest increasing. Early market tomato fields setting fruit. Planting, processing tomatoes continued late districts. Winds dried ranges, dry land pastures showing green. Fall, winter calves being branded, processed prior movement summer pastures, weaning, sale. Movement livestock summer pastures increasing many districts.

COLORADO: Storm 23rd brought cold temperatures and 0.10 to 0.30 in. precipitation. Storm on 28th left 14 in. of snow in San Juan Mtns. and 0.20 to 0.40 precipitation on plains. Temperatures 6 to 9° below normal.

Winter wheat good condition; 10% pastured; 5% jointed; 17% last year; 21% average. Barley, good condition 68% seeded, 21% emerged; last year 61% and 38%; average 68% and 34%. Corn planting beginning, 2% in ground, last year 12% and average 30%. No sorghum planted. Sugarbeets 47% planted, last year 19%; average 59%. Days suitable for fieldwork: 2.0. Livestock continue under stress with more wet weather.

FLORIDA: Mostly sunny and warm with little to no rain. Widely scattered showers across a cool front which moved southeastward through the State early week. A few thundershowers formed along seabreeze fronts near the coasts latter half of the week; isolated amounts of 1.00 in. or more some areas. Early-to-midweek temperatures dipped into the 40's north; near record low 50's central. Otherwise nights were warm with temperatures in the 80's. Inland locations were warm in the low 90's last half of week.

Soil moisture mostly adequate; a few wet spots in the west and a few dry localities in the south. Corn planted, being cultivated. Tobacco transplanting complete, crop making slow progress. Peanut planting gaining, soybean planting beginning. Small grains heading. Peaches sizing, harvest to begin in about 3 weeks. Sugarcane good growth. Pastures have improved and are in fair to good condition, Panhandle, north; good to excellent, south. Cattle condition has improved and generally good statewide. Conditions for citrus growth and recovery good. Rain needed, irrigation being used. Some old freeze damaged trees showing very little growth. A lot of hedging and major pruning of freeze damaged groves. Harvest of Valencia oranges increasing. Most grapefruit coming from Indian River and St. Lucie Counties. Sunny skies prevailed in the vegetable area during the week. Widely scattered showers occurred in some areas. Overall vegetable shipments gained 3% over the previous week. Crops gaining were carrots, potatoes, watermelons. Shipments remained steady for Chinese cabbage, sweet corn, cucumbers, eggplant, radishes, squash. Supplies declined for snap beans, cabbage, cauliflower, celery, escarole, lettuce, peppers, strawberries, tomatoes. Potato digging active, new volume leader. Watermelon cutting underway. Good volume expected in two weeks Immokalee area.

GEORGIA: Rain and cooler temperatures on 23rd followed by warm and dry weather until late in the week. Over weekend of 28th and 29th showers returned. Temperatures averaged a degree or two above normal. All stations reported maximum temperatures in 80's with a few southern areas reaching the low 90's. Lowest temperatures in mid 30's in mountains of north. Rainfall totals in 1.00 in. range over north and east and under 0.30 in. elsewhere. Rain fell on up to 3 days. Mean four inch soil temperatures now in 70's over much of State.

Soil moisture 43% surplus, 55% adequate, 2% short. Average days suitable for fieldwork 3.3, same as last week. Rains and wet soils continue to hamper fieldwork. Corn 90% planted, 85% last year, 91% average; condition 4% poor, 52% fair, 42% good. Cotton 18% planted, 23% last year, 54% average; condition 10% poor, 70% fair, 20% good. Grain sorghum 12% planted, 8% last year, 17% average; condition 54% fair, 43% good. Peanuts 24% seeded, 26% last year, 43% average; condition 5% poor, 85% fair, 10% good. Tobacco transplanted 95% this year and last, average 98%; condition 8% poor, 63% fair, and 29% good. Watermelons 92% planted, 88% last year, 89% average; condition 12% poor, 63% fair, 22% good. Wheat jointing 98% this year, 97% last year; boot 92% this year and last; headed 82% this year, 73% last year. Wheat condition 23% fair, 68% good, 6% excellent. Rye condition 29% fair, 63% good, 5% excellent. Other small grains condition 36% fair, 58% good, 6% excellent. Apples 98% blooming, 88% last year; condition 9% fair, 73% good, 16% excellent. Peach condition 13% fair, 71% good, 14% excellent. Pastures 19% fair, 67% good, 10% excellent. Cattle 22% fair, 74% good; hogs 13% fair and 83% good.

HAWAII: Moderate to heavy showers were sandwiched at midweek between mostly sunny days.

The rains were a welcomed relief to crops in areas that had received little rain so far this year. The sometimes heavy showers did not cause any crop damage. Temperatures were above normal for most days and this contributed to disease and insect problems. Supplies of head cabbage forecast to remain heavy. Quality reportedly good. Chinese cabbage, and head lettuce supplies will also remain heavy. Papaya production expected to decline, but output will be maintained at a relatively high level. Banana production forecast to gradually decline.

IDAHO: A strong ridge of high pressure off the west coast circulated cool Canadian air into the State. The northerly weather pattern had little precipitation associated with it. Temperatures averaged between 5 and 10° below normal across most of the State. The warmest spot was Moscow at 2° above normal. Molad was the coldest at 10° below normal. Most areas of the State reported below normal precipitation. Porthill and Pocatello were slightly above normal. The northern region was 0.25 to 0.50 in. below normal.

Plantings advanced as 4.0 days were suitable for fieldwork. Spring wheat seeded rose to 52% compared to 67% in 1983 and 66% average. Spring barley, at 38% seeded, trailed last year's 40% and the 52% average. Sugarbeets advanced to 71% planted compared to 88% in 1983 and 80% average. Onions planted, at 84%, trailed last year's 89% and the average of 92%. Potatoes reached 21% planted compared to 27% in 1983 and 19% average. Winter wheat was 93% not yet jointed versus 81% last year. Pasture and range condition was rated poor to good. Fruit trees were in the bloom stage.

ILLINOIS: Temperatures 2° below normal to 6° above normal. Precipitation 0.13 to 4.30 in.

Soil moisture 1% short, 33% adequate, 66% surplus. Days suitable for fieldwork: 1.5. Wheat 1% excellent, 48% good, 34% fair, 10% poor. Oats seeded 50%, last year 68%, average 80%. Tillage for corn and soybeans 74% complete, last year 82%, average 86%. Corn planted 1%, last year 11%, average 12%. Winter wheat 0% headed, last year 0%, average 4%. Alfalfa condition 10% excellent, 69% good, 20% fair, 1% poor. Pasture condition 8% excellent, 63% good, 27% fair, 2% poor; supplying 44% livestock ruffage requirements, last year 47%, average 55%.

INDIANA: Extreme temperatures from lower 80's to low and mid 30's. Average daily highs from mid 60's to low 70's. Precipitation totals from less 0.25 in. in northeast sector to 1.25 in. in far southwest. Most areas from 0.40 to 0.70 in.

Fieldwork averaged 1.0 day. Topsoil and subsoil moisture adequate to mostly surplus. Spring cropland 60% tilled, 1983 75%, average 70%. Corn 2% planted, 1983 6%, average 4%. Oats 30% seeded, 1983 70%, average 65%. Oats 1 in. tall, 1983 3 in., average 2 in. Wheat fair condition. Wheat 6 in. tall, 1983 10 in., average 8 in. Wheat 15% jointed, 1983 40%, average 10%. Wheat 0% headed, 1983 0%, average 0%. Clover 60% seeded, 1983 85%, average 80%. Pastures fair.

IOWA: Wet week, near-seasonal temperatures. Month of April, excess of 5.50 in.; wettest April in 112 year long State record. About 7 in. snow fell 29th. Wet snow, high winds, heavy rains caused damage.

Days suitable for fieldwork: 2.4. Fertilizer applications 60% complete; 46% last week; 52% last year. Conventional tillage operations 62% complete; 50% last year; 75% normal completed. Conservation tillage operations 56% completed. Winter wheat crop condition 44% good, 45% fair, 11% poor to very poor. Pasture conditions 4% excellent, 41% good, 43% fair, 12% poor to very poor. Corn acreage 3% planted; 7% last year; 8% normal. Oat acreage, 64% sown; 57% last year; normal 79%. Oat acreage merged 6% complete; 2% last year, 35% normal. Topsoil moisture conditions 45% adequate, 55% surplus. Subsoil moisture conditions 2% short, 53% adequate, 45% surplus. Livestock generally good condition, normal death losses.

KANSAS: Precipitation averaged generally less than 0.25 in. over the west 0.25 to 0.50 in. southeast and 0.60 to 0.80 in. central and northeast. Temperatures averaged 52° northwest and 61° southeast. These were 4 to 6° below normal northwest and southwest, 2 to 3° above normal in the east and 1 to 3° below normal in the central and west central areas.

Wheat condition fair to good except poor northwest and parts north central. About 30% wheat acreage jointed, last year 50%, average 60%. No wheat headed, last year and average none. Few reports of insect problems. Light wind damage southwest. Soil-borne mosaic symptoms disappearing. Surface and subsoil moisture generally adequate west, surplus central and east. Nearly 95% oats and barley planted, 5% corn planted, 5% last year, 20% average. No sorghum planted, last year and average none. Range and pastures good to excellent. Days suitable for fieldwork: 2.5.

KENTUCKY: Sporadic showers received statewide. Totals generally 0.50 to 1.00 in. to locally heavier amounts. Mean temperatures low to mid 60's and 2 to 5° above normal.

Soil moisture 63% surplus, 37% adequate. Farmers average 2.3 days in the fields. Fieldwork 1 to 2 weeks behind normal. About 54% seeded tobacco beds have plants emerged, 75% last year and average. Plant condition fair.

Corn planting 9% complete, 6% 1983, 22% average. Wheat and barley fair to good. Pastures 85% normal. Alfalfa showing good growth and alfalfa weevil currently not problem.

LOUISIANA: Rainfall amounts averaged from a trace to 0.50 in. Average temperatures near normal. High 89°, low 42°.

Soil moisture short to adequate. Days suitable for fieldwork: 5.8. Activities included spring plowing, rice, corn, cotton, and sorghum planting, and application of fertilizers and insecticides. Spring plowing 81% 1984, 66% 1983, 78% average. Rice planting 66% 1984, 52% 1983, 65% average. Rice emerged 56% 1984, 37% 1983, 54% average, condition fair to good. Slow growth in some areas. Corn planting 90% 1984, 69% 1983, 76% average. Corn emerged 84% 1984, 62% 1983, 67% average, condition fair to good. Cotton planting 19% 1984, 8% 1983, 18% average. Cotton emerged 3% 1984, 1% 1983, 10% average. Soybean planting just beginning. Sorghum planting 63% 1984, 31% 1983, 35% average. Sorghum emerged 42% 1984, 11% 1983, 24% average, condition fair to good. Sweetpotato planting 9% 1984, 8% 1983, 16% average, condition good. Sugarcane condition poor to fair, growth slow. Winter wheat condition good. Few cases of scab disease reported. Wheat headed 88% 1984, 55% 1983, 73% average. Wheat turned color 10% 1984, 32% 1983. Vegetable condition fair. Strawberry harvest continues. Pastures and livestock condition fair to good.

MARYLAND AND DELAWARE: Maryland: Temperatures averaged mostly 2 to 4° below normal. Precipitation averaged 0.67 in., coming mostly in the early part of the week.

Cool, wet weather limited fieldwork to 2.8 days. Acreage plowed 35%; equal to last year, average 70%. Small grains remain in fair to good condition except oats which is fair. Spring oats 60% planted; 55% last year. Potatoes and snap beans planting ahead of last year, peas behind and sweetpotatoes equal to last year's progress. Potatoes 90% planted; 70% last year. Snap beans 40% planted; 25% last year. Green peas 75% planted; last year 100%. Tobacco bed planting complete. Peach bloom 80%, last year 85%. Topsoil moisture mostly surplus except on lower Shore where supplies adequate. Subsoil moisture mostly surplus through out the State. Pasture feed and hay adequate.

Delaware: Temperatures averaged 3 to 4° below normal. Precipitation averaged 0.67 in. with nearly 1.00 in. in the south. It was a cool, wet week.

Farmers worked an averaged 3.7 days in their fields, mostly late in the week. Small grain in mostly good condition. Potatoes 60% planted; 65% last year. Snap beans 10% planted. Green peas 75% planted this year and last. Peach bloom 100% 1984 and 1983. Topsoil and subsoil moisture were adequate in New Castle County and surplus elsewhere.

MICHIGAN: A warm spring week with plenty of showers. Temperatures averaged 5° above normal. It was wet over the State with especially heavy downpours over southern areas.

Wet conditions limited fieldwork. Farmers were able to enter fields by the weekend as warm weather began drying lighter soils. Corn planting just started, 2% complete last year, 4% average. Winter wheat greening well and in generally good condition. Fruit crops benefitted by the warm temperatures. Development near normal.

MINNESOTA: Thunderstorms at midweek and snow showers at weeks end put an end to below normal precipitation trend. Temperatures averaged 1 to

2° below normal for west central, southwest, and south central and normal to 2° above normal elsewhere. High: 81°, low: 23°. Precipitation averaged near normal for the south central and 0.33 to 1.11 in. above normal elsewhere. Greatest weekly total: 2.58 in.

Ground preparation and small grain seeding progress rapidly until rain interrupted fieldwork. Days suitable for fieldwork: 4.3. Topsoil moisture: 6% short, 66% adequate, 28% surplus. Winter wheat condition: 43% poor to fair, 57% good to excellent. Planted: Spring wheat 40%, 1983 20%, normal 39%; oats 52%, 1983 21%, normal 41%; barley 31%, 1983 16%, normal 33%; corn 4%, 1983 5%, normal 7%.

MISSISSIPPI: Average temperatures above normal, extremes 35 and 87°. Heavy thunderstorms with some hail the 26th. Greatest 24-hour rainfall 5.22 in.

Soil moisture surplus to adequate northern half, adequate southern half of State. Fieldwork: 3.4 days suitable, 4.5 1983, 3.7 average. Main activities, plowing and planting. Plowing 56% completed. Wheat condition good to fair; 75% heading, 45% 1983. Corn good; 70% planted, 37% 1983, 58% average; 45% emerged, 22% 1983. Rice 23% planted, 16% 1983, 41% average; 1% emerged, 3% 1983, 14% average. Cotton 12% planted, 15% 1983, 24% average; 1% emerged, 11% average. Sorghum 17% planted, 8% average. Soybeans 1% planted, 1% average. Sweetpotatoes 15% planted, 8% average. Watermelon acreage 38% planted, 26% 1983. Peanut acreage 10% planted, 5% 1983. Peach condition and livestock condition good to fair.

MISSOURI: Spring-like temperatures arrived in the State as the temperature averaged normal. Precipitation was widespread but light, generally less than 0.50 in. and less than 0.10 in. over the western Ozarks.

Corn planted 5%, 20% last year, 25% normal. Cotton 3% planted, 5% last year, 13% normal. Topsoil moisture 1% short, 25% adequate, 74% surplus. Days suitable for fieldwork: 1.6. Winter wheat mostly fair condition. Some yellowing due to excess moisture. Pastures mostly fair condition but improving. Livestock also mostly fair condition.

MONTANA: Major spring storm brought 3 to 5 feet of snow to southern portions of south central and 1 to 3 feet in some southwest and southeast areas. Precipitation in southern sections of southeast and south central ranged from 1.25 to 6.00 in. Strong winds with the storm left snow drifts 5 to 8 feet deep. Very strong winds over much of northeast on 27th caused large areas of blowing dust. Remainder of State light to moderate precipitation. Temperatures 4 to 10° below normal. First time in 13 weeks temperatures were below normal statewide.

Soil moisture mostly adequate except in northeast where soil moisture continues to be short. Fieldwork: 4.0 days suitable. Winter wheat growing and in good condition. Barley 50% planted, oats 40% planted. Spring wheat planted 1984 50%, 1983 50%, average 35%. Winter wheat headed 1984 0%, 1983 0%, average 0%. Calving 90%, lambing and shearing 80% complete. Ranges growing with 10% of livestock moved to summer ranges. Heavy livestock losses reported in southeast due to major snowstorm. Extent of losses have not been determined. Some ranches have sustained heavy loss of new lamb crop from this area which traditionally produces nearly 30% of State's sheep and lambs.

NEBRASKA: Two major storms, one midweek, one end of week. Precipitation 1.00 in. Panhandle, 3.00 in. southeast. Temperatures 1° below

normal east, 9° below normal west.

Winter wheat mostly fair. Wheat jointing 4%, 6% last year, 10% average. Corn planting less than 1%, 2% last year, 6% average. Oat seeding 50%, 60% last year, 85% average. Days suitable for fieldwork were 3.0.

NEVADA: Cold, low pressure system dominated most of period. Precipitation from this storm mostly on light side. Main impact was cold temperatures. Average temperatures ranged from 4 to 10° below normal. Extremes: 98 and 13°.

Cold, windy weather slowed fieldwork and planting operations all areas. Alfalfa hay harvest gaining momentum extreme south. Potato planting slowed by inclement weather.

NEW ENGLAND: Average temperatures ran close to normal, generally within 3°. Highest was 82° on the 29th at Manchester, NH; lowest, 21° at Canaan, VT. early on the morning of the 26th. Most precipitation occurred the first three days of the week. Greatest amounts fell in eastern Massachusetts, coastal New Hampshire, and western Maine. Largest measurement was 1.73 in. at Brunswick, ME.

Farmers preparing fields for planting in southern areas.

NEW JERSEY: Temperatures averaged 2° below normal. Extremes were 36° on the 24th and 80° on the 30th. Weekly rainfall averaged 0.28 in. north, 0.47 in. central and 0.60 in. south. The heaviest 24-hour total 0.62 in. on the 28th to 29th. Estimated soil moisture, in percent of field capacity, averaged 96% north, 95% central and 95% south. Four inch soil temperatures averaged 52° north, 57° central and 57° south.

Fieldwork: 3.2 days suitable. Below normal temperatures and excess soil moisture limited crop development and caused delays in planting. Scattered light asparagus harvest begun. Peaches and apples coming in bloom. Livestock forages in short supply.

NEW MEXICO: Unseasonably warm daytime temperatures early week; cold air mass moved across State on 26th. Record-breaking minimum temperatures occurred some northern areas on 26th and morning of 27th. Minimum temperature 10°, western mountains. Maximum temperatures 89° southeastern plains. Most areas received 0.25 in. or more of precipitation, except lower elevations of south.

Soil moisture supplies short to adequate. Soil erosion widespread from heavy winds. Irrigated wheat, barley good, dryland fields varied. Cotton planting: 34% current; 20% last year; 34% average. Mesilla Valley crops showed limited growth due to cooler temperatures. Lettuce harvest may be within 2 weeks. Supplemental livestock feeding heavy. Ranges barren.

NEW YORK: Cool, wet early in week. Most rain fell 23rd to 25th. Second half of week warmer and dry.

Soils cold and wet, poor plowing conditions. Oat planting less than 5% done, same in 1983, average 23%. Hay, pasture greening slowly. Western apples in tight cluster stage.

NORTH CAROLINA: Temperatures 3 to 5° below normal. Precipitation between 0.25 to 2.00 in.

Soil moisture: 56% adequate, 44% surplus. Days suitable for fieldwork: 3.5. Condition: Wheat 22% fair, 72% good, 6% excellent. Oats 4% poor, 34% fair, 61% good, 1% excellent. Barley 29% fair, 70% good, 1% excellent. Pasture 14% fair, 80% good, 6% excellent. Tobacco beds 24% fair, 74% good, 2% excellent. Irish potatoes 36% fair,

61% good, 3% excellent. Peaches 12% fair, 80% good, 8% excellent. Plantings: Corn 34%, 1983 30%, average 69%. Flue cured tobacco 18%, 1983 7%, average 29%. Cotton 8%, 1983 11%, average 33%. Major farm activities: Corn planting, tobacco transplanting, land preparation for spring planting, transplanting vegetables, haying, tending tobacco plant beds, applying chemicals, tending livestock and fertilizing pasture.

NORTH DAKOTA: Record-breaking April blizzard southwest through north central 26th to 28th. Snowfall 10 to 25 in. driven by 40 to 60 mph winds. Storm system also brought thunderstorms with hail as large as 1.50 in. in diameter southeast on 26th. Precipitation averaged from 4.00 in. northwest to around 1.00 in. southeast. After highs of 60's and 70's early in week, storm brought sharply colder weather by mid and late week. Temperature averaged from 7° below normal southwest to 1° below normal northeast and east central. Extremes were 74° south central on 23rd and 17° central.

Severe weather caused some livestock losses. Scours and pneumonia are concerns in week ahead. Snow and rain replenished moisture supply in west part of State. Supply as good as it has been in recent years. Seeding percent completed this week, last year and average: Hard red spring wheat 13, 12, 24; durum 7, 5, 14; barley 11, 7, 20 and oats 11, 10 21.

OHIO: Temperatures 4 to 6° above normal north, 3 to 5° above normal south. Ranges from 30's to 80's. Precipitation widespread, totals from 0.33 to 1.00 in.

Fieldwork severely limited due to excess moisture. Soil moisture 0% short, 12% adequate, 88% surplus. Days suitable for fieldwork: 1.0. Corn planted 1% 1984, 10% 1983, 15% average. Winter wheat headed 0% 1984, 0% 1984, 0% average; average height 5 in. 1984, 9 in. 1983; condition fair. Pasture condition fair to good.

OKLAHOMA: Temperatures averaged 6° below normal Panhandle to 1° above normal southeast. Rainfall ranged zero west central to 0.85 in. east central.

Extremely high winds and some tornadic activity swept across State. Statewide, damage light since small grain development behind average. Winds sapped moisture reserves producing early drought signs and stress southwest. Cotton planting expected to begin this week. Wheat good, pastures and livestock good to fair condition. Wheat headed: 5%; 10% 1983, 25% average. Sorghum planted: 2%; 3% 1983, 5% average. Cotton planted: 0%; 0% 1983, 1% average.

OREGON: Up to 1.00 in. precipitation at coast. Less than 0.20 in. in Willamette Valley and eastern areas. Overnight minimums in the 20's and 30's in south and northeast. These regions averaged 7° below normal. Western valleys had temperatures 5° below average.

Winter wheat in generally good condition. Spring grain seeding continues in east, nearing completion at lower elevations. Summer fallow fertilization and ground work. Peppermint seeding and fertilization in progress. Malheur County: Sugarbeet planting complete, fields 75% emerged; onions nearly all planted, 50% emerged; potatoes 60% planted. Onions around Milton-Freewater being cultivated, sprayed, and irrigated to aid emergence. Potato seedbed preparation in central areas and Klamath County. Some sweet corn and beans planted in west. Late planting of green peas. Sweet cherries, prunes, apples, and late peaches in fruit-set stage in

Willamette Valley and along the Columbia. In southwest, frost protection of fruit trees. Raspberries budding; marionberries and boysenberries in pre-bloom; strawberries blooming but crop prospects remain below normal. Cranberry dormant fungicide spraying complete. Range and pasture in good condition, growth reasonably good at lower elevations. Warmer weather would improve growth. Livestock in good condition. Some animals in summer pasture in east.

PENNSYLVANIA: Another rather cloudy damp and cool week, with 26th and 27th being the most sunny of the week. Average temperature was 1° below the normal of 52°. Precipitation amounts ranged from around 0.50 in. to just over 2.50 in. Heaviest amounts occurred mostly in the southern counties and as a result of thundershowers the latter part of the week, average precipitation was slightly above the normal.

Days suitable: 2.0. Moisture surplus to adequate. Activities: Spreading lime, fertilizer and manure; spraying; plowing; and planting oats, potatoes, tobacco beds, and sweet corn. Plowing 17% complete, last year 35%, average 52%. Oats 26% planted, last year 34%. Potatoes 6% planted, last year 16%. Planting tobacco beds virtually complete, last year 67%. Hay stand conditions good to fair. Feed from pasture average to below average. Peaches 23% pink and less than 5% in full bloom, last year 32% pink and 16% in full bloom. Cherries 9% pink and 10% in full bloom, last year 31% pink and 10% in full bloom. Apples less than 5% pink, last year 19%.

PUERTO RICO: Island average rainfall 0.56 in. or 0.69 in. below normal. Highest weekly total 2.31 in. Highest 24-hour total 2.22 in. Temperature averaged about 80 to 79° on coasts and 75 to 74° interior divisions. Mean station temperature ranged from 81.6 to 65.5°. Extremes 95 and 56°.

SOUTH CAROLINA: Week ended wetter than usual, temperature near or slightly above normal for the week. Rainfall 1.50 to 2.00 in.

Soil moisture adequate to surplus. Days suitable for fieldwork: 3.6. Corn condition fair to good; 80% planted, 73% last year, 87% average. Cotton planting 32%, 29% last year, 61% average. Tobacco growers transplanted 87%, 47% last year, 83% average; condition good. Wheat good condition; 56% headed, 50% last year, 70% average. Peaches condition good. Tomato condition good.

SOUTH DAKOTA: Average temperatures were 5 to 10° below normal west, and 1 above to 3° below central and east. Extremes: 81 and 12°. A blizzard in the west left from 1 to 4 feet of snow and caused significant livestock losses. Precipitation was above normal in almost all areas.

Topsoil moisture remained surplus in the southeast and was adequate over remainder of the State. Winter wheat in fair to good condition, though slow greening. Range and pasture conditions fair. Feed and stock water supplied adequate. Calving 73% complete, lambing 80%. Nineteen percent of cattle moved to summer pasture. Corn planted 0%, 1983 0%, average 0%. Spring wheat planted 35%, 1983 30%, average 56%. Sorghum planted 0%, 1983 0%, average 0%. Winter wheat headed 0%, 1983 0%, average 0%.

TENNESSEE: Frontal systems moved across the State throughout much of the week producing rainfall on five out of seven days. All areas of

the State received moderate heavy rainfall. Precipitation amounts ranged from 1.15 in. in the west to 2.41 in. midstate. Average temperatures ranged from 61° in the east to 66° in the west. Extremes ranged from 35° (Bristol) to 87° (Chattanooga).

Farmers averaged 2.7 days of fieldwork. Soil moisture 47% surplus, 53% adequate. Corn planted 1984 20%, 1983 12%, average 36%. Cotton planted 1984 2%, 1983 5%, average 20%. Wheat condition: 39% good, 57% fair, 4% poor. Wheat headed 4%, 9 days behind 1983 and 14 days behind the average. Tobacco plant condition: 25% good, 72% fair, 3% poor. Tobacco beds with plants up 85%. Fruit tree condition 37% good, 57% fair, 6% poor. Livestock and pastures in fair to good condition.

TEXAS: Mostly dry, mild weather prevailed first part week. End week, showers thunderstorms northern half State. Blowing dust West Texas trailed behind showers thunderstorms. Temperatures above normal Trans-Pecos, eastern half State. Temperatures below normal High Plains, near normal rest State. Precipitation below normal, except near normal High Plains, Trans-Pecos.

Crops: Warm temperatures high winds depleted soil moisture, short most areas. Crops stress Low Plains Valley. Ranges pastures little grazing. Livestock conditions fair, marketings heavy lack forage. Sorghum planting neared completion far north Low Plains dry conditions. Fields need rain. Greenbugs aphids problem, spraying increased Central Texas. Irrigation picked up Rio Grand Valley. Stand reduction South Texas. Corn planting progressed rapidly High Plains. First fields planted good stands. Producers concerned high winds emergence later planted fields. Northern Blacklands, emergence problems soil crusting. Central Texas fields wilt lack moisture. Irrigation valley, cultivating weed control active South Texas. Cotton planting nearing completion Blacklands, Cross-Timbers. Pre-plant irrigation occurring High, Low Plains. Soil temperatures rise Plains, planting week or two. Cotton slow growth Central Texas. Warmer temperatures increased squaring Coastal Bend, Rio Grande Valley. Wheat fields continue stress warm, windy weather. Irrigated fields Plains look good. Dryland fields need rain. Most wheat plains booted, some heading. Yield prospects declining daily Central Texas high temperatures dry conditions Aphids causing problems. First wheat field harvested Bee County, harvest spread other South Texas counties. Wheat harvest in Central Texas couple weeks. Statewide wheat condition 64% normal, compared with 84% year ago. Current reported conditions; 6% excellent; 28% good; 47% fair; 19% poor. Rice progressing poorly winds cool night temperatures. Fields watered. Sugarbeet planting virtually complete. Some replanting necessary earlier fields poor stands. Cotton planted 14% 1984, 11% 1983, 17% average; squaring 3% 1984, 0% 1983, 0% average. Rice planted 98% 1984, 87% 1983, 87% average; emerged 62% 1984, 47% 1983, 52% average. Sorghum planted all purposes 62% 1984, 66% 1983, 65% average. Wheat headed 29% 1984, 32% 1983, 29% average; turning color 6% 1984, 0% 1983, 0% average. Corn planted for all purposes 84% 1984, 76% 1983, 76% average. Peanuts planted 7% 1984, 11% 1983, 10% average. Sugarbeets planted 97% 1984, 90% 1983, 95% average. Sunflowers planted 0% 1984, 4% 1983, 4% average.

Commercial vegetables: Rio Grande Valley, spring vegetables good progress. Harvest active onions. Light supplies carrots, cabbage reported. Watermelons, cantaloups progressing well. Pruning irrigation continue citrus orchards. San Antonio-Winter Garden, irrigation heavy all vegetables, progressing well. Onion

harvest begin two, three weeks. East Texas, vegetables normal growth. Tomatoes blooming. Watermelons, cantaloups up; moisture needed. High Plains, onion, potato plantings complete. Onions growing rapidly dry conditions. Irrigation active most onion fields. Peach trees progressing well. Some fruit droppage due dry conditions. Light insect problems reported. Pecan trees blooming most areas. South Texas, some fruit dropped due drought conditions. Fair, good crop expected, adequate rainfall arrives.

Range and livestock: Conditions to decline. Wheat fields cut hay many areas. Supplemental feeding picked up. Planted coastal fields making slow growth dry weather. Stock tanks either low, dry. Young calves good growth. Wool production good; however, weights down. Marketings cattle increased, herd reductions numerous.

UTAH: Precipitation mostly light over west one-third of State and moderate to heavy over east two-thirds. Maximum temperatures averaged 8° below normal, ranging 11° below to 3° below. Minimums averaged 4° below normal, ranging 8° below to 1° above.

Only 4.0 days available for fieldwork. Soil moisture bordering on the surplus. Spring wheat 53% planted; barley 59%; oats 45%; onions 93% and peas 60%. Apricot trees in full bloom. Expected bloom dates for most other fruits May 11. Sheep shearing 68% completed; calving 84%; lambing 67%. Range and pastures feed on lower ranges looking good. Still too wet to allow much grazing.

VIRGINIA: Storm system beginning period brought rain most areas. Mid and late period weather mostly cool, dry. By 27th temperatures warmed to the 80's and lower 90's over most of State. Precipitation averaged 1.00 to 1.25 in.

Warm, dry days reduced topsoil moisture to 63% adequate, 37% surplus, and allowed 2.9 days suitable for fieldwork. Corn planting 34% complete, 29% last year, 43% average. Peanut planting just beginning, 4% complete, 6% last year, 12% average. Soybean land preparation continues. Hay cutting on small grain fields beginning. Fertilizing and liming active on vegetables and other crops. Wheat, hay, and fruit in excellent condition. Fruit trees full bloom. Potato condition fair to good. Pasture conditions excellent. Most livestock moved to pasture and in good to excellent condition.

WASHINGTON: Weather for week dominated by strong high pressure system centered to southwest of State. Relatively weak front brought rain to coast during weekend and cooler unstable air produced rain shower activity west of Cascades through 25th. No significant precipitation reported east of Cascades. Air flowing around high cooler than normal and most stations reported mean temperatures below seasonal expectations.

Cold weather continues to retard crop development. Potato planting ahead of schedule. Corn planting continues. Spring wheat and barley seeding continues. Herbicide application delayed due to windy weather. Alfalfa hay starting to be cut. Irrigation districts beginning to deliver water to customers. Protecting orchards from frost damage been necessary during week. Chelan and Okanogan Counties, Bartlett pear crop will be down substantially due to winter injury. Apple thinning sprays being applied. Commercial strawberry growers fumigating fields. Asparagus harvest has slowed down. Vegetable growers fertilizing and liming fields. Green pea planting Walla Walla County remains behind schedule. Western counties, rhubarb and readish harvests continue. Cold temperatures limiting

growth range and pasture forage, but some cattle now on grass. Dairymen continue to greenchop daily needs. Livestock in good condition.

WEST VIRGINIA: Temperatures were nearly 3° above normal across the State, except for the central, north central and northeast portions which averaged 1° above normal. Precipitation was nearly twice the normal amount for the week, ranging from 0.20 in. in Bluefield to 2.97 in. in Franklin.

Soil moisture surplus to adequate. Days suitable for fieldwork averaged 2.0. Main activities: Field preparation, fencing and general maintenance. Feed supplies adequate to short.

WISCONSIN: The weather over south started on a cool wet note with snow and rain and highs only in the 40's, while the northwest basked in sunshine. By midweek clouds broke up with highs into the 70's statewide, culminating in 80° weather on 27th. Scattered showers and thunderstorms occurred in the south and west on late 25th and early 26th. Thunderstorms developed again on 27th when a severe weather outbreak caused widespread destruction and death. Several tornadoes were also reported. Violent weather returned on 29th with severe thunderstorms reported in south and heavy snow in the northwest.

An average of 3.0 days were suitable for fieldwork. Spring plowing was estimated at 35% complete, planting of oats at 44% complete and corn planting at 1%.

WYOMING: Temperatures much below normal. Precipitation normal in western section. Spring blizzard dumped excessive moisture over north central and northeast portions.

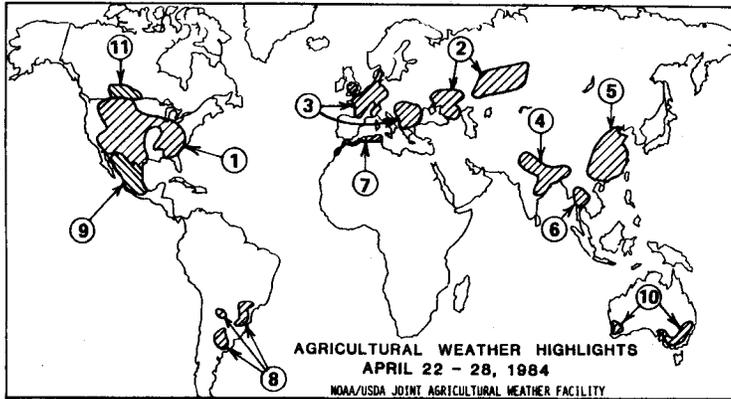
Topsoil moisture adequate 97% State. Days suitable for fieldwork: 2.0. Acreage planted: Spring wheat 35%; oats 30%; sugarbeets 50%; barley 50%; corn 5%; potatoes 10%. Winter wheat fair to mostly good condition, moderate freeze damage in southeast. Good prospects for alfalfa. Livestock fair to good condition. Spring calves born 75%. Death losses mostly normal, heavy in northeast. Farm flock: Ewes lambed 80%; shorn 65%. Range sheep: Ewes lambed 35%; shorn 45%. Death losses mostly normal, heavy in northeast. Spring blizzard in northeast, north central scattered livestock, paralyzed ranchers, heavy losses feared of range stock.

(continued from p. 13)

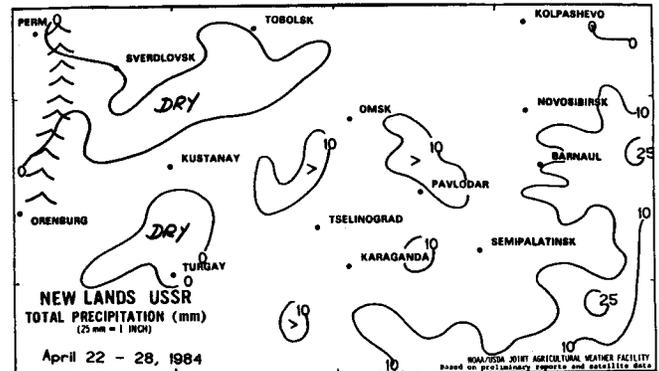
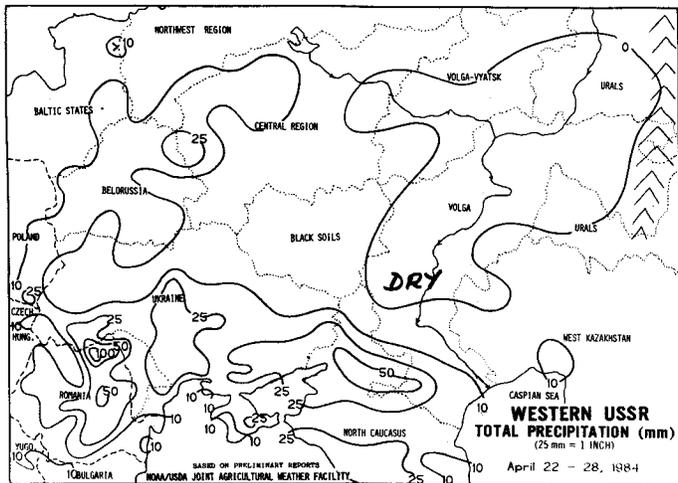
rated mostly poor in this region, but were fair to mostly good elsewhere in the Nation. Heavy snow fell across portions of Montana, North Dakota, South Dakota, and Wyoming causing abnormally high livestock losses in some areas. Elsewhere livestock continued in fair to mostly good condition.

International Weather and Crop Summary

April 22 to 28

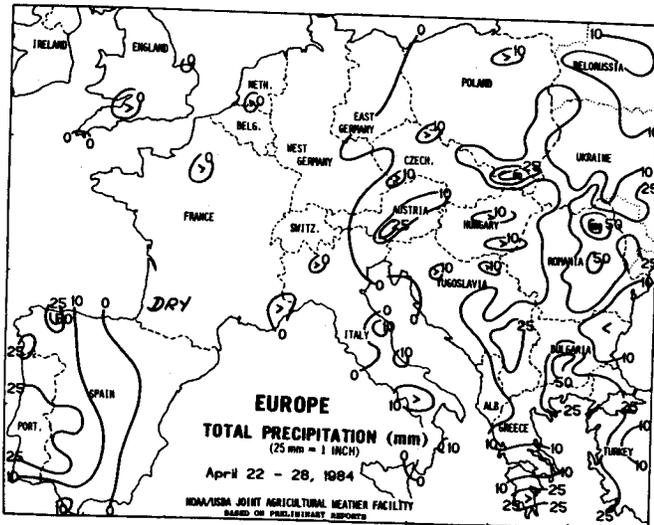


1. UNITED STATES .. A late season blizzard severely stresses livestock, causes some losses in the northern Rockies and Plains, but brings beneficial moisture to wheat. High winds over the southwestern quarter of the Nation burn young crops, erode topsoils, and deplete soil moisture. Wetness from the Corn Belt to the Southeast hampers fieldwork and planting.
2. WESTERN USSR ... Widespread showers continue to benefit crops in the southern Ukraine and central North Caucasus. A meager precipitation pattern continues to stress crops in the southern Black Soils, northeastern Ukraine, northern Caucasus, and lower Volga Valley. In the New Lands, precipitation is needed for planting moisture. Most spring grain seeding takes place after May 15.
3. EUROPE ... Dry weather causes few delays in spring seeding in the northwest. Wet weather continues to delay spring crop planting in the southeast.
4. SOUTH ASIA ... Premonsoon showers brought moisture to eastern India. Moderate rain delays wheat harvesting in the north.
5. EASTERN ASIA ... Rice continues to benefit from widespread rains. Dryness in the north is unfavorable for winter wheat and summer crops.
6. SOUTHEAST ASIA ... Good early season rains in Thailand may allow some corn and rice planting. Most planting will begin when additional rains arrive.
7. NORTHWESTERN AFRICA ... Dry weather continues to reduce yield prospects in Morocco and northwestern Algeria.
8. SOUTH AMERICA ... Mostly dry, cooler weather recently pushed into the crop areas of Argentina and center-south Brazil. Summer crop harvests continue throughout the region, while early planting of winter wheat has begun in Brazil.
9. MEXICO ... Abnormal dryness stresses crops and livestock in nonirrigated areas.
10. AUSTRALIA ... Weather conditions favor land preparation for winter wheat planting throughout the grain belt of southern Australia.
11. CANADA ... Cold air, with snow and rain, returns to the Prairie Provinces. Significant moisture falls over the eastern half of the grain belt as the planting season begins.

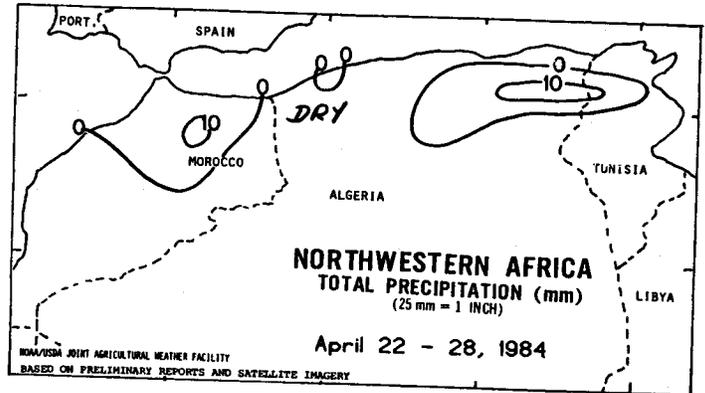


WESTERN USSR...Most of the southern Ukraine and central North Caucasus received abundant showers, around 25 mm. Precipitation in these areas benefited winter grains in the vegetative stage and newly emerged spring crops. Generally light, scattered precipitation covered remaining crop areas, except for a narrow band of significant showers (10-25 mm) which stretched northeastward from Belorussia through western crop areas in the Central Region. In the southern Black Soils, northeastern Ukraine, northern Caucasus, and lower Volga Valley a meager precipitation pattern continued to produce potential stress conditions for winter grains in the vegetative stage and newly emerged spring crops. Overall, subsoil moisture supplies appear adequate across northern crop areas and the south-central Ukraine, but are limited in the Black Soils, eastern Ukraine, lower Volga Valley, and North Caucasus.

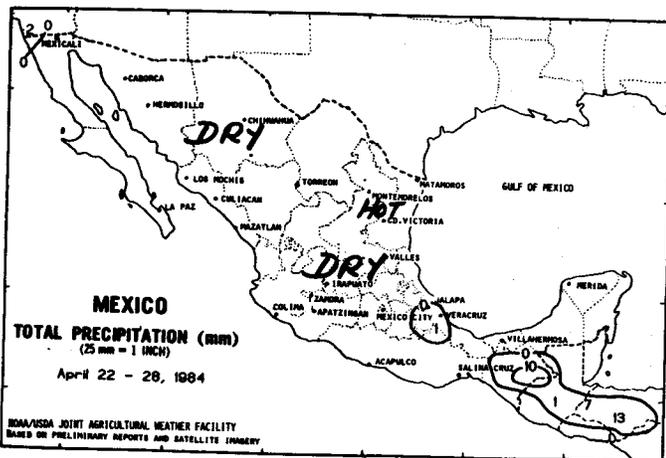
NEW LANDS...Light, scattered precipitation covered most spring grain areas. Fieldwork in preparation for spring seeding may be occurring in more southern areas, with most seeding to take place after May 15. Most of the total annual rainfall occurs from May through August coinciding with the normal crop season. Southern crop areas are the most drought prone. In general, moisture conditions during the winter have been near normal, but a large portion of the winter precipitation fell during the early winter months. Colder than normal weather in South Central USSR cotton areas may have delayed early cotton seeding, which normally begins by late April.



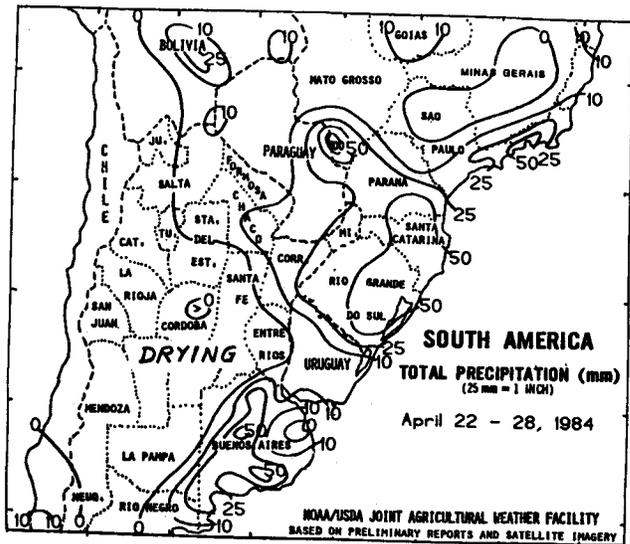
EUROPE...Mostly dry weather covered crop areas in England, France, the Netherlands, Belgium, West Germany, and northern Italy. The dry weather in these areas allowed fieldwork for spring seeding to progress with few delays. Showers are needed to aid emergence of spring crops and benefit winter wheat in the vegetative stage. In contrast, wet weather in crop areas in southeastern Europe continued to cause planting delays. However, soil moisture conditions should be plentiful in most areas. Crop areas in Poland received only light showers, continuing the unfavorably dry pattern of the past several weeks. In Spain, generally dry weather covered winter grains in the heading stage, but additional showers would benefit growth.



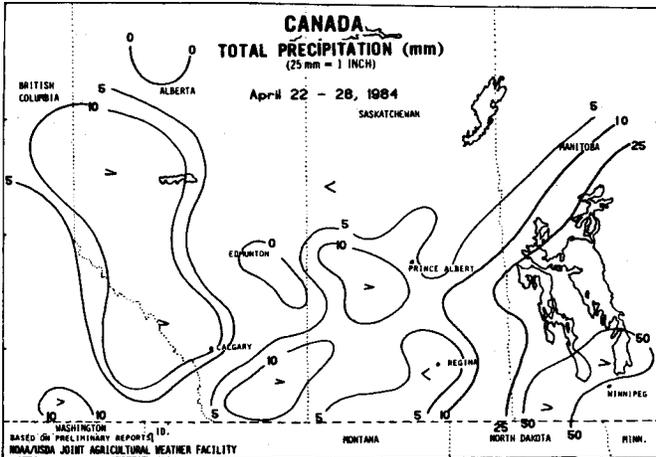
NORTHWESTERN AFRICA...Scattered showers fell across the grain areas of northwestern Africa but weekly amounts were light (less than 5 mm), except for isolated locations in Morocco, northeastern Algeria, and northwestern Tunisia. The winter grain crop is advancing through the grain filling stage throughout the region. Weekly temperatures averaged above normal in Morocco and Algeria, but below normal in Tunisia. Unfavorable weather has deteriorated crop conditions, especially in Morocco and northwestern Algeria. Significant rain is needed very soon to halt further declines in yield prospects.



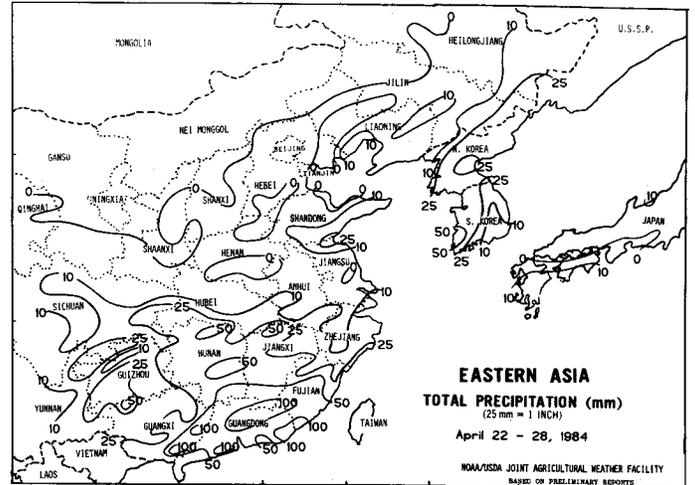
MEXICO...Abnormally dry, hot weather continued to stress rangeland vegetation and nonirrigated crops over much of the nation. A few light showers fell in the states of Veracruz and Chiapas; otherwise, the country remained dry. Temperatures were considerably hotter than usual over the northeast, and some districts had weekly extremes of 40-43°C (104-109°F), stressing livestock and immature crops. This spring, irrigation needs for most crops have been greater than usual; likely causing concern about the declining water levels in the reservoirs. The onset of the rainy season, which generally begins about mid-May in southern Mexico, could be later than usual this year because the tropical band of cloudiness and showers producing the rainy season is still about 500-700 miles south of the southern Mexican coast.



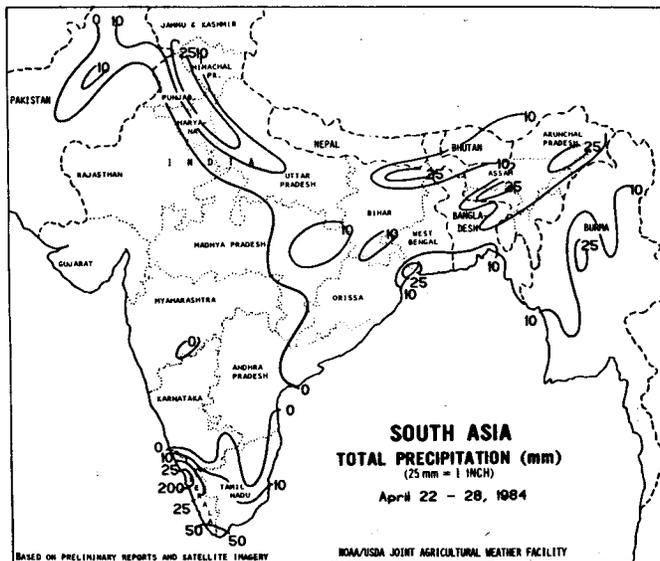
SOUTH AMERICA...Mostly dry, cooler weather prevailed over crop areas of Argentina, following some locally heavy, early week showers in Buenos Aires. The moisture slowed late sunflower and corn harvesting, but benefited southern winter wheat areas where planting begins next month. Crop harvesting should have made significant progress in Cordoba, Santa Fe, and northern cotton areas where earlier wetness plagued harvesting efforts. In Brazil, rain persisted in soybean areas of Rio Grande do Sul through southern Parana and extreme southern Mato Grosso do Sul early in the week, but drier, cooler weather moved into the region later in the week. Soybean harvesting likely resumed by week's end in some areas. Mostly dry weather prevailed all week in citrus and coffee areas of Sao Paulo and Minas Gerais. Recent moisture has aided wheat planting in Parana.



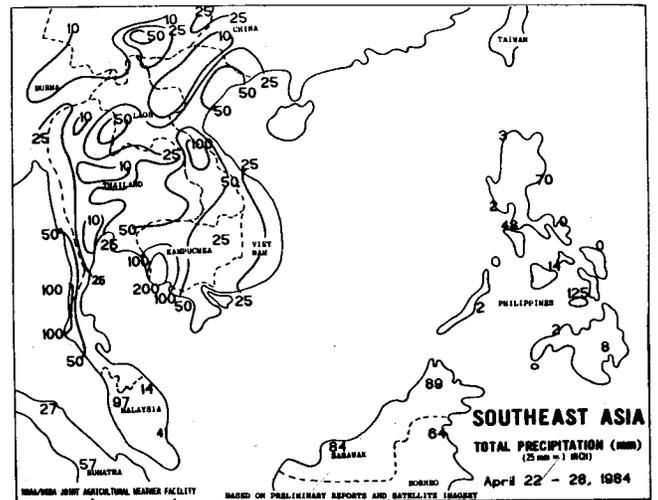
CANADA... Cold air returned to the Prairie Provinces after a few weeks of unseasonably warm weather aided land preparation for spring crop planting. Snow and rain fell over most crop areas, but weekly amounts were light (mostly less than 10 mm) in the western half of the region. Heavy precipitation (25-50 mm) fell over extreme eastern Saskatchewan and Manitoba. May is the optimum planting period for spring wheat, barley, and rapeseed. The weather plays a key role during two particularly critical phases of development: crop germination and emergence, and flowering to early grain formation. Thus, temperature and precipitation patterns from May through July are especially important. Saskatchewan is the leading spring wheat producing province, while Alberta is the leading barley producing province. About 80 percent of the rapeseed crop is divided almost equally between the two provinces.



EASTERN ASIA... Most significant precipitation was limited to areas south of the Yangtze River. Moderate to heavy rain, as much as 180 mm in Guangdong, covered the rice region in southern China this week. Moisture supplies are favorable for the early rice crop which normally reaches the heading stage in May. Intermediate rice is in the vegetative stage and has adequate moisture in Sichuan and Jiangsu, the two major producing provinces. Cotton, corn, and soybean planting continues with drier weather in the Yangtze Valley. Unfavorable dryness in most of the North China Plain is slowing summer crop planting and stressing nonirrigated winter wheat entering the heading stage. A weak frontal passage produced only scattered showers (less than 5 mm) in Hebei and northern Shandong. Moderate rain in southern Shandong and northern Jiangsu benefited winter wheat. Light rain in the northeast favored corn and soybeans as planting progresses.



SOUTH ASIA... Premonsoon shower activity increased in eastern India this week. Mostly light showers covered Bihar, West Bengal, Orissa, and Bangladesh. An isolated storm in eastern Madhya Pradesh produced 145 mm of rain. Wheat harvesting should be complete in this region, so the heavy rain should have little impact on the crop. Moderate rain early in the week in Punjab and Haryana interrupted wheat harvesting. Most of western India remained seasonably dry this week. Temperatures in most of India averaged slightly cooler than normal because of a cooling trend early in the week. Heavy rain (nearly 200 mm) likely caused localized flooding in Kerala.



SOUTHEAST ASIA... Increased precipitation in Indochina this week may signal the beginning of the wet season. Much of eastern and northern Thailand received greater than 25 mm of rain. Heavy rain in the north benefited reservoir levels. Western Thailand was relatively dry. If rains continue, corn and rice planting will make rapid progress. Precipitation in the Philippines during the last 2 weeks has improved rice planting conditions in Central Luzon. South Luzon remains unfavorably dry. Rain in the central islands benefited rice planting which was hampered by earlier dryness.

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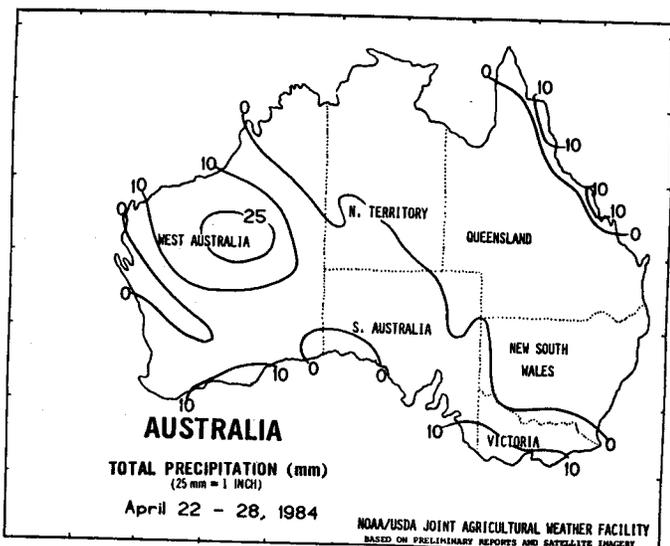
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**WEEKLY NEWS BULLETIN
SECOND CLASS**



AUSTRALIA...Dry weather over eastern wheat areas, including southeastern Queensland and New South Wales, aided fieldwork. Light showers covered the southern and western wheat areas, but weekly rainfall totals were less than 10 mm throughout the southern portion of the continent. Showers and thunderstorms produced heavier rain (10-30 mm) to the northeast of Western Australia's major wheat area. Weather conditions during the week generally favored land cultivation for winter wheat planting. In fact, early planting should be underway. Under normal conditions, New South Wales is the largest wheat-producing state, followed by Western Australia, Victoria, South Australia, and Queensland, in that order. South Australia is the leading barley producing state.

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