

# WEEKLY WEATHER AND CROP BULLETIN

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

U.S. DEPARTMENT OF AGRICULTURE  
Economics and Statistics Service  
World Food and Agricultural Outlook and Situation Board

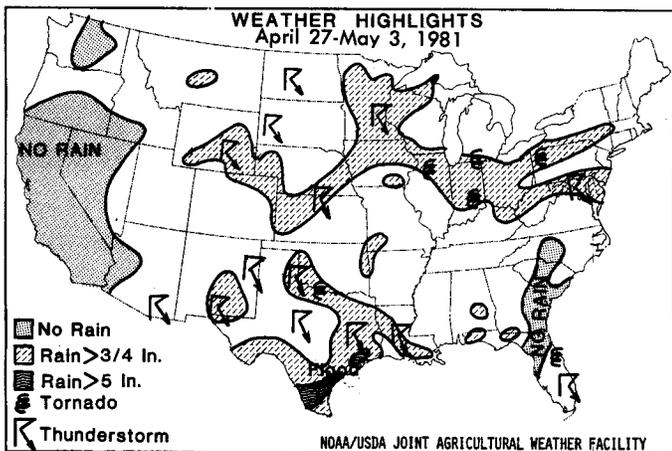
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May 5, 1981

## National Weather Summary

April 27 - May 3, 1981



**HIGHLIGHTS:** Showers and thunderstorms were widespread throughout the eastern United States. Heavy rains in southern Texas caused serious flooding. Showers moved through the Pacific Northwest and into the northern Plains where extreme drought has persisted. Average temperatures were warmer than normal over most of the Nation but cloudiness in southern Texas kept that area near normal.

**MONDAY...** While parts of the central Plains and the Midwest broke daily high temperature records for the third consecutive day, the record-breaking warmth spread into the Southeast. Florence, S.C., reached 96°; Sioux Falls, S.D., marked 91°; and Springfield, Ill., rose to 87°. Late afternoon thunderstorms developed in Iowa, southern Texas, Colorado, and Kansas. Rain spread across the Pacific Northwest.

**TUESDAY...** A cold front triggered showers and thunderstorms from eastern Texas to the Ohio Valley and lower Great Lakes region. Tornadoes erupted from southern Michigan into western Pennsylvania. Showers moved eastward to cover New Jersey and southern New England. Locally heavy rain caused flooding in western Pennsylvania. Unseasonably warm temperatures set records in California and across the South.

**WEDNESDAY...** Severe weather wrought destruction in the northern Mississippi Valley. Bands of thunderstorms moved from eastern North Dakota to Iowa. Hail, high wind, and a couple of tornadoes were reported through that area. Showers were also active from Kansas to Indiana and from Virginia to New York. Cooler air covered the Great Lakes area but the record-breaking heat continued in the Southwest.

**THURSDAY...** Thunderstorms were scattered over a large portion of the Nation. Tornadoes were spotted in Louisiana and North Carolina. Hail fell in the Pacific Northwest and showers were widely scattered from Arizona across the South and from the Great Lakes to Virginia. Bakersfield, Calif., warmed to a record 101°; Houston, Tex., reached 92°; and 85° was a record at Pocatello, Idaho.

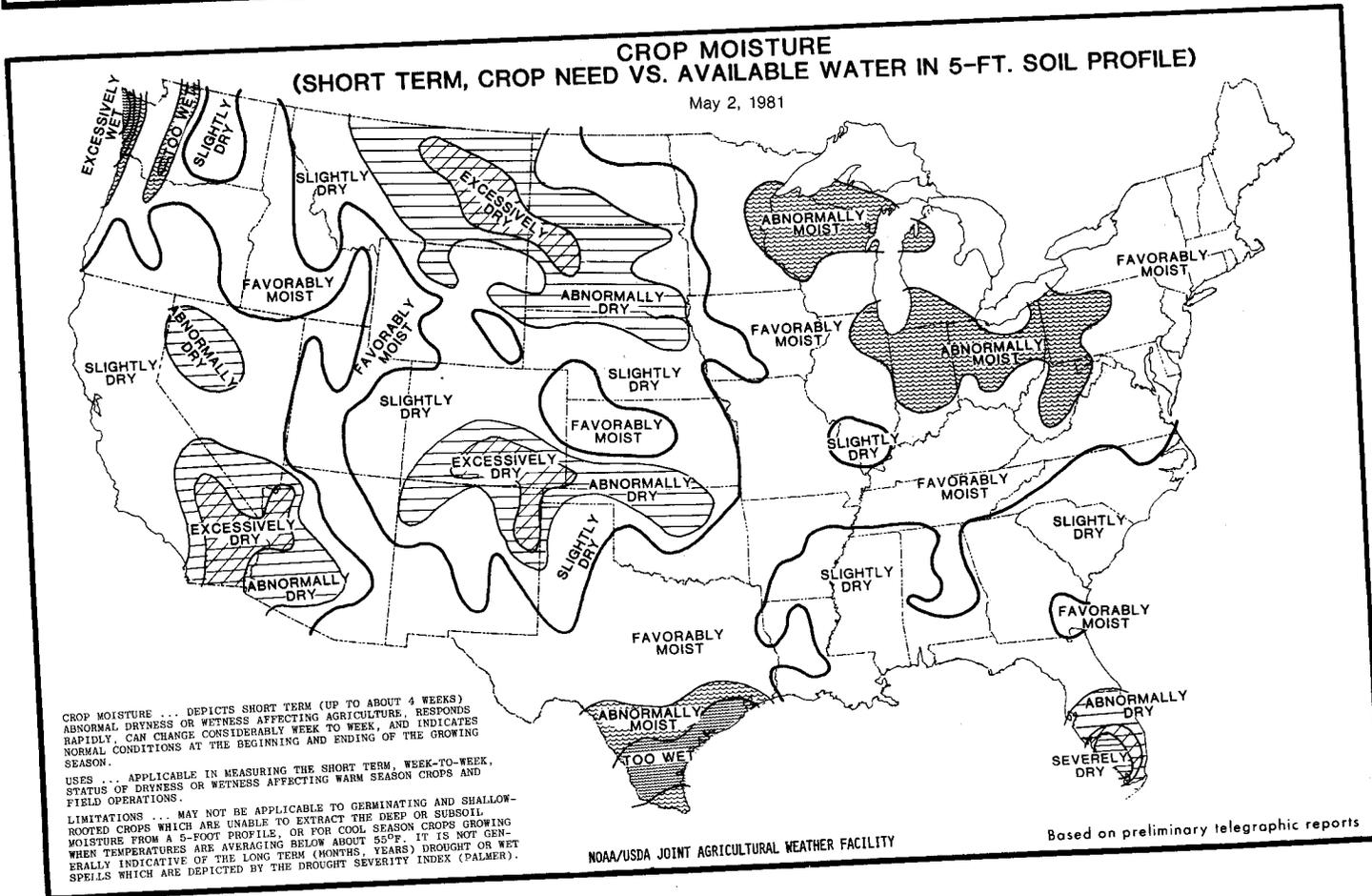
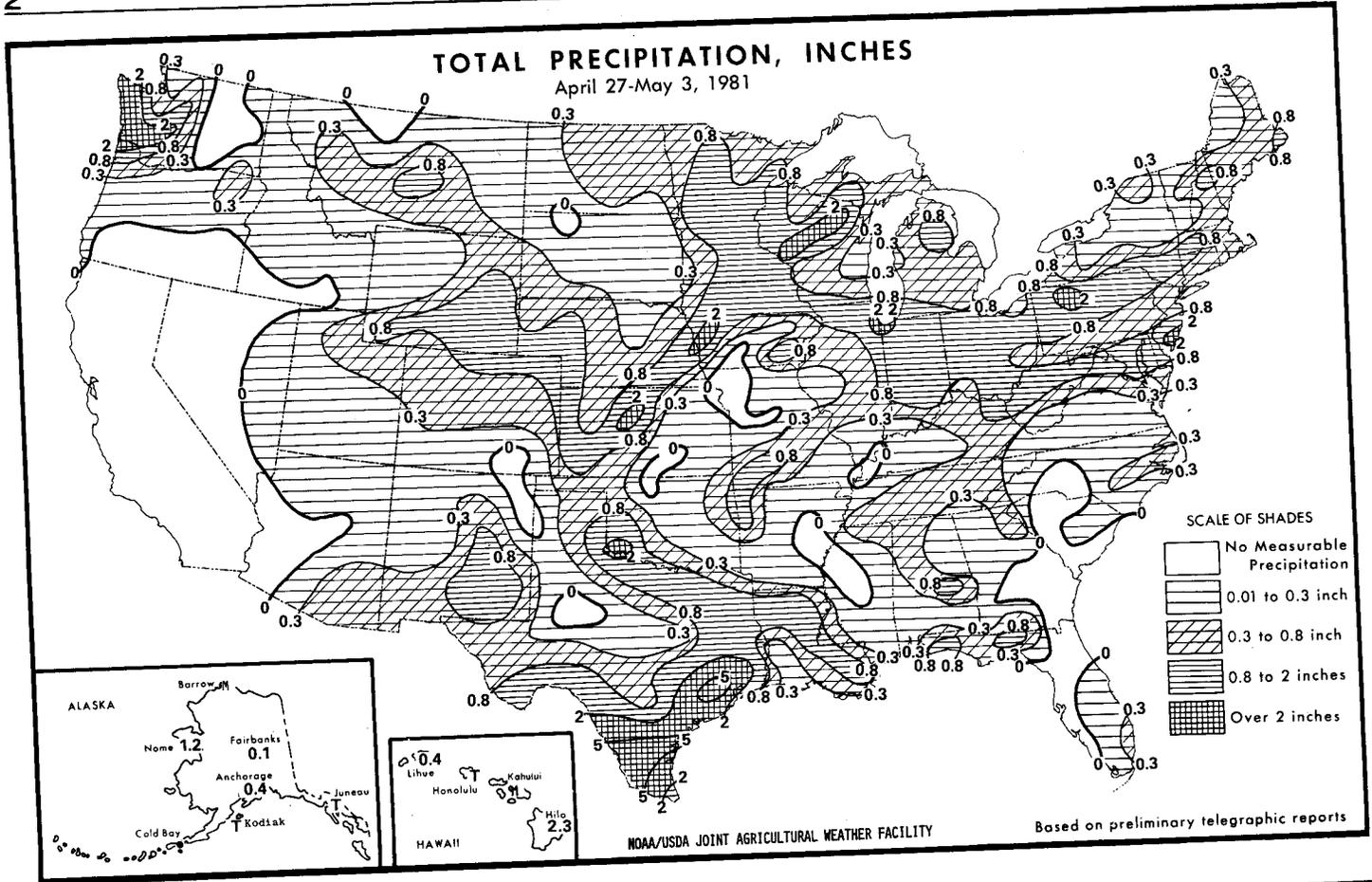
**FRIDAY...** Thunderstorms developed from southern Texas across the southern and central Rockies into Arizona as well as the northern intermountain region. Thunderstorms were also active from Texas to the Ohio Valley, Virginia, New York, and were widely scattered along the Gulf coast. Tornadoes were reported in Texas, Illinois, Indiana, and in Florida. Temperatures were still warm in the West and across the South but were quite cool in the northern Plains and the Great Lakes area.

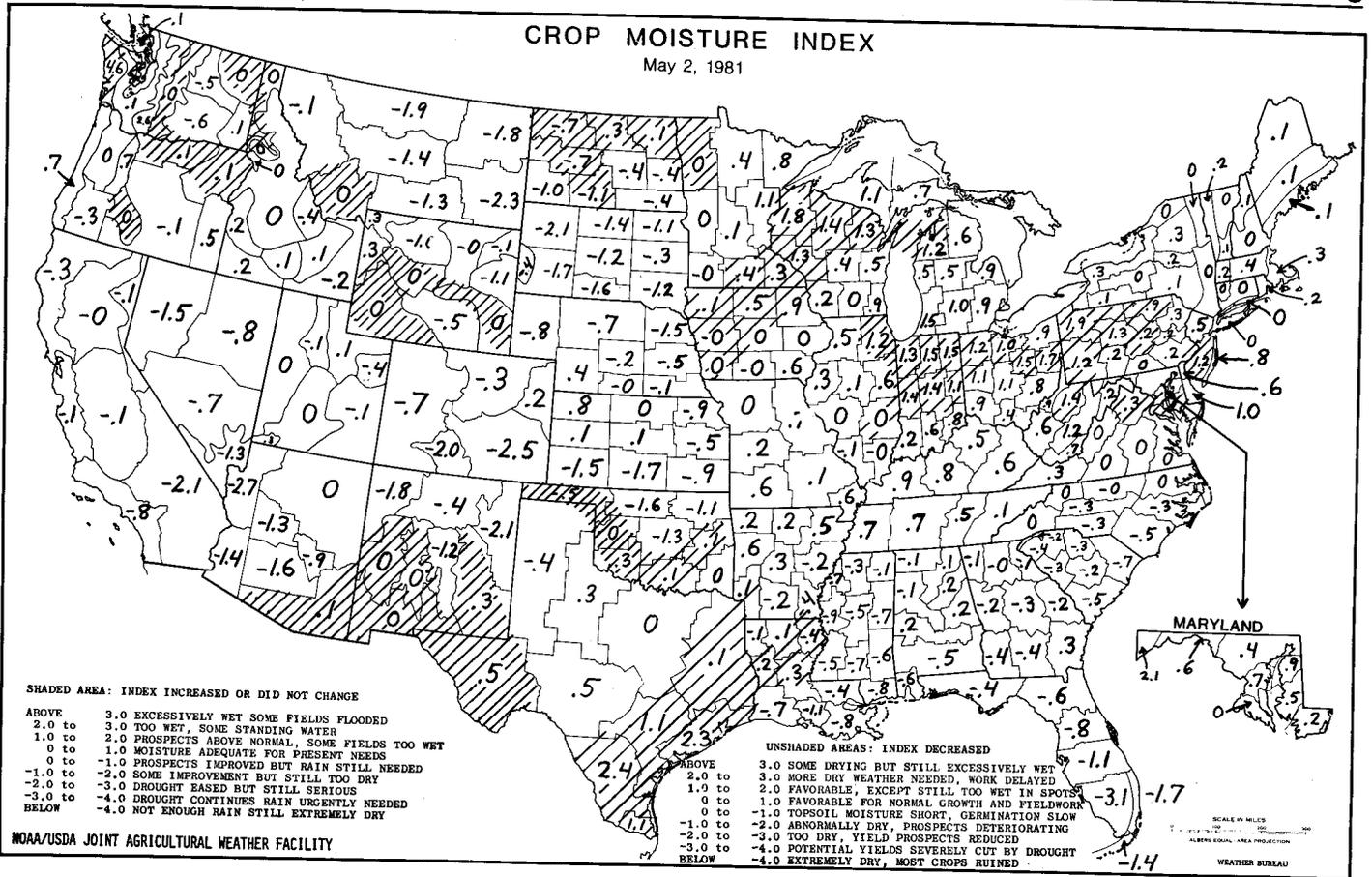
**SATURDAY...** A stationary front stretched across the Gulf of Mexico and reached into southern Texas. Thunderstorms and some heavy rain caused local flooding. Rain was also scattered over the middle and northern Atlantic coast. Strong thunderstorms developed over Wyoming and moved into the very dry area of western South Dakota. Warm temperatures were common over much of the Nation but it was cool in the Northeast.

**SUNDAY...** A low pressure system over western Texas caused showers and heavy rain along the Texas coast and throughout eastern Texas. Serious flooding resulted in portions of southern Texas. Thunderstorms reached into the central Plains and Rockies. Strong southerly winds raised dust in the central Plains which was sighted over Illinois later in the day. Temperatures were much cooler in the East and the Pacific Northwest.

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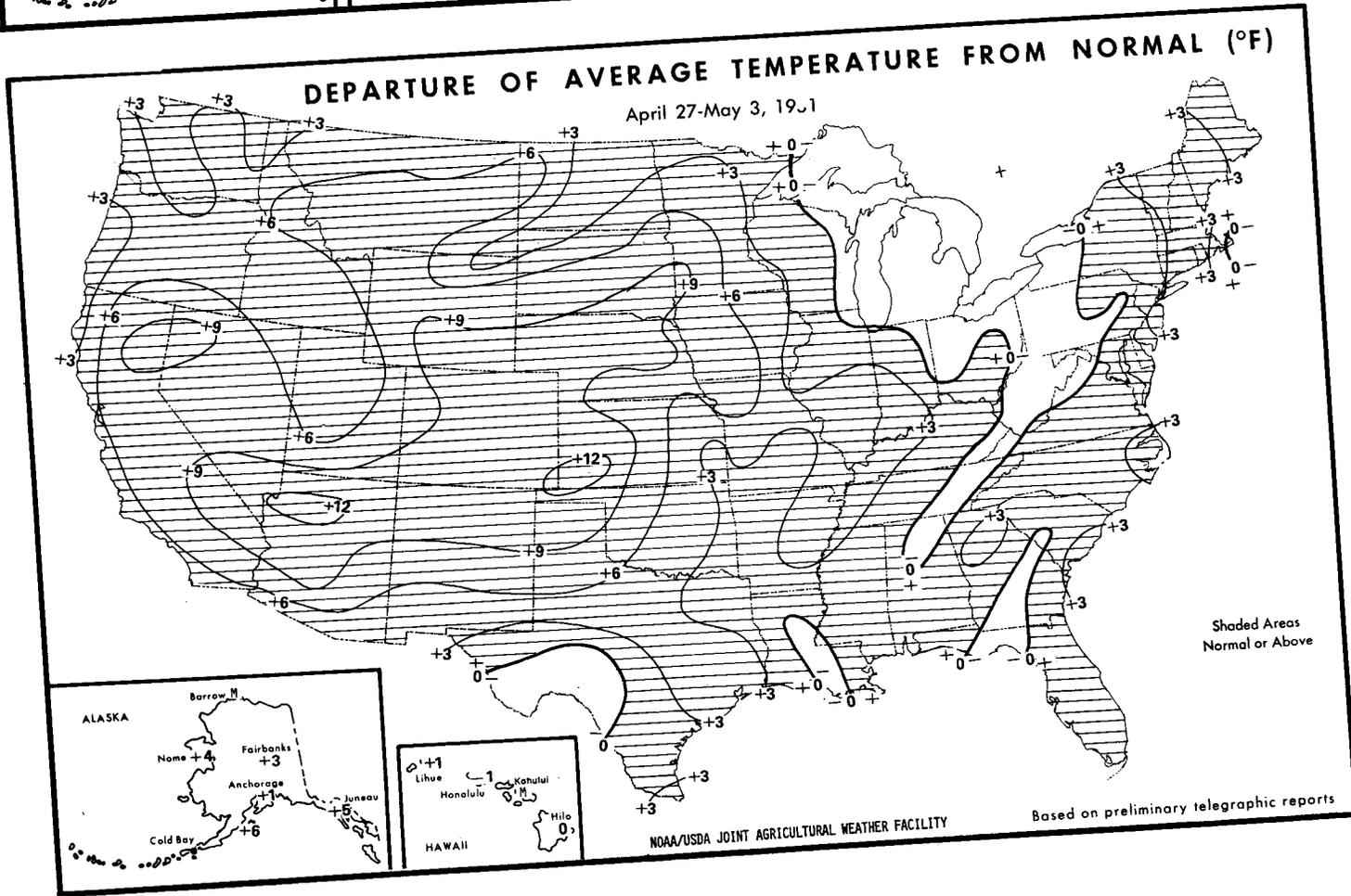
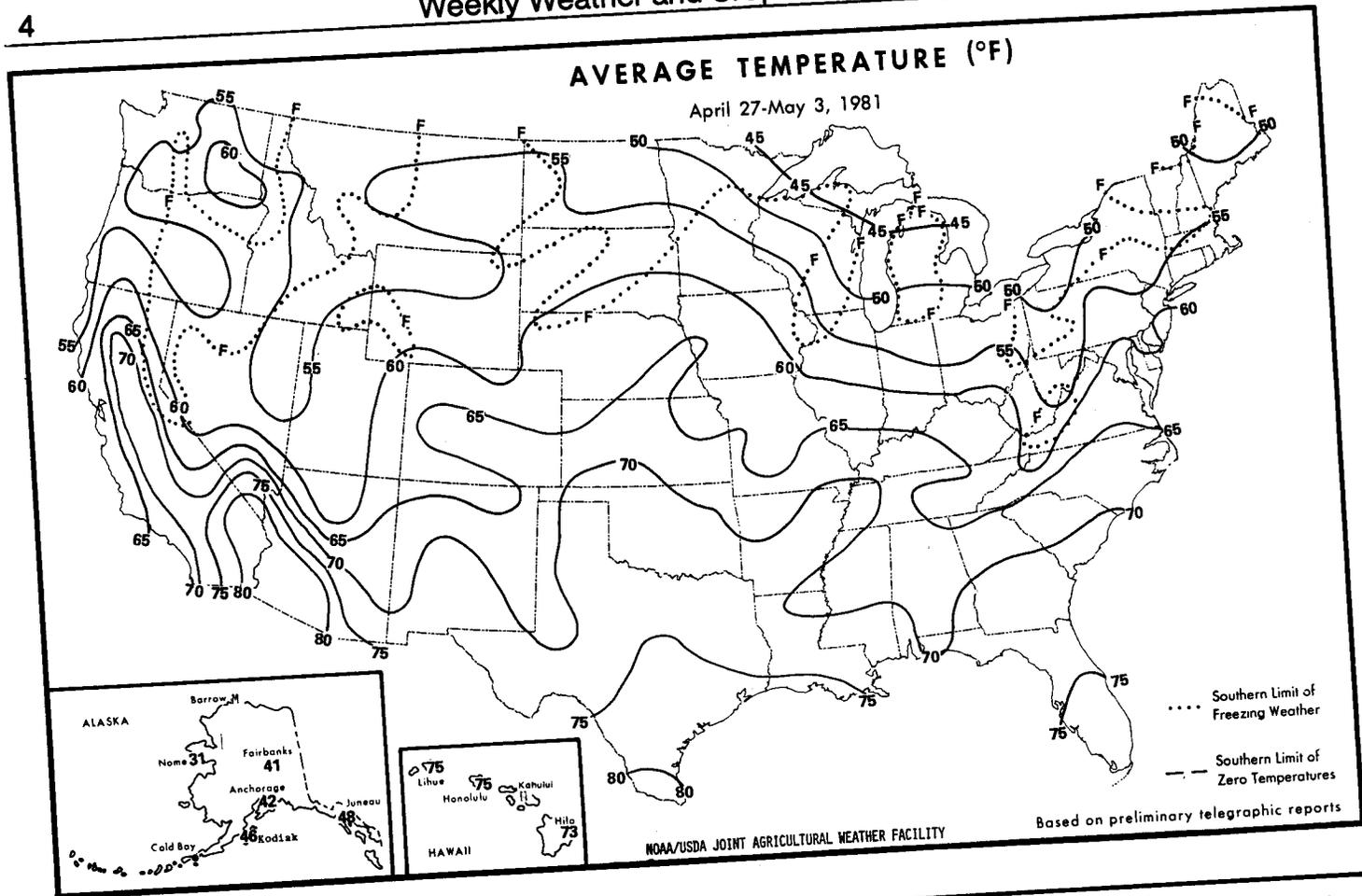


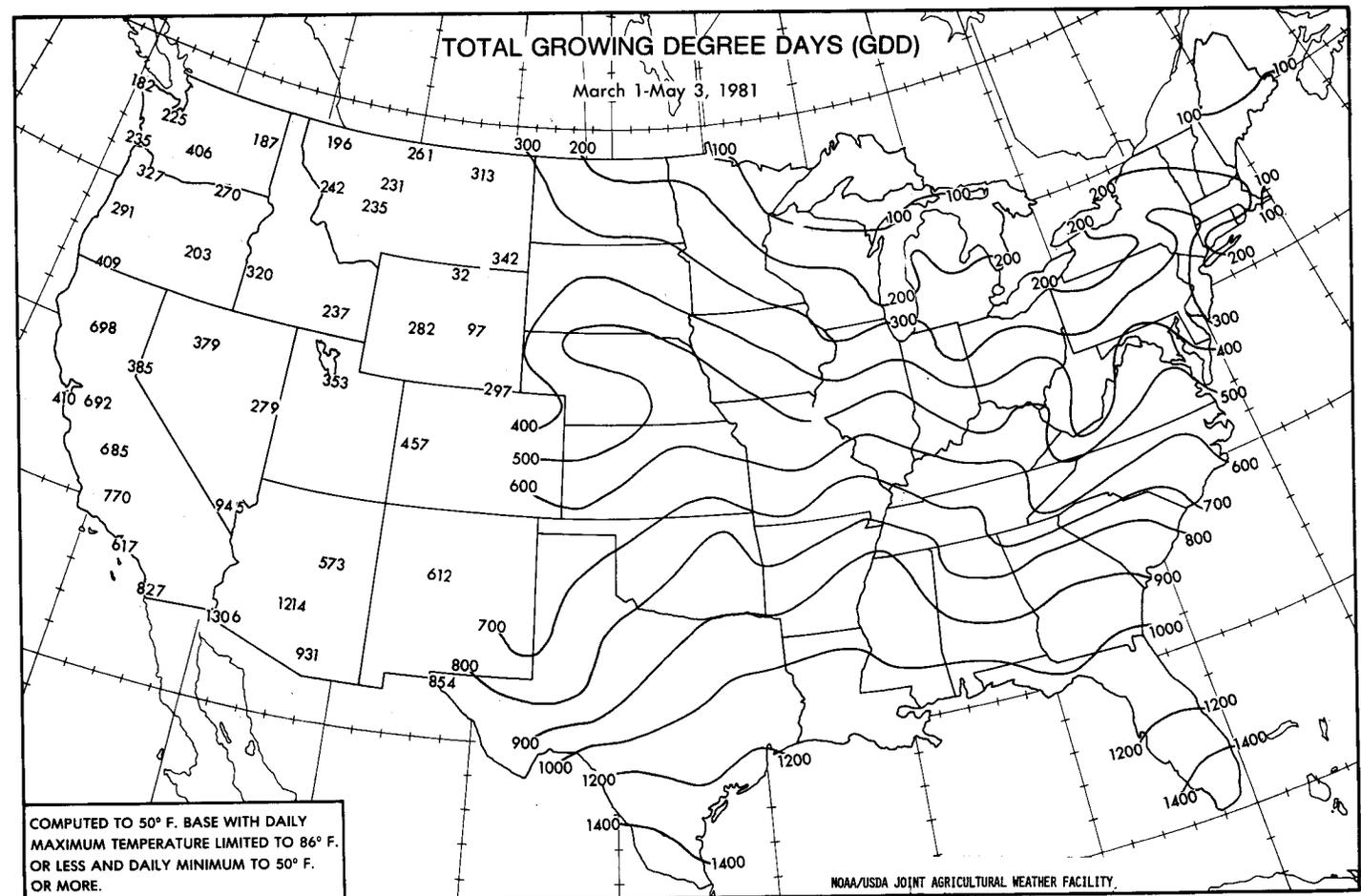
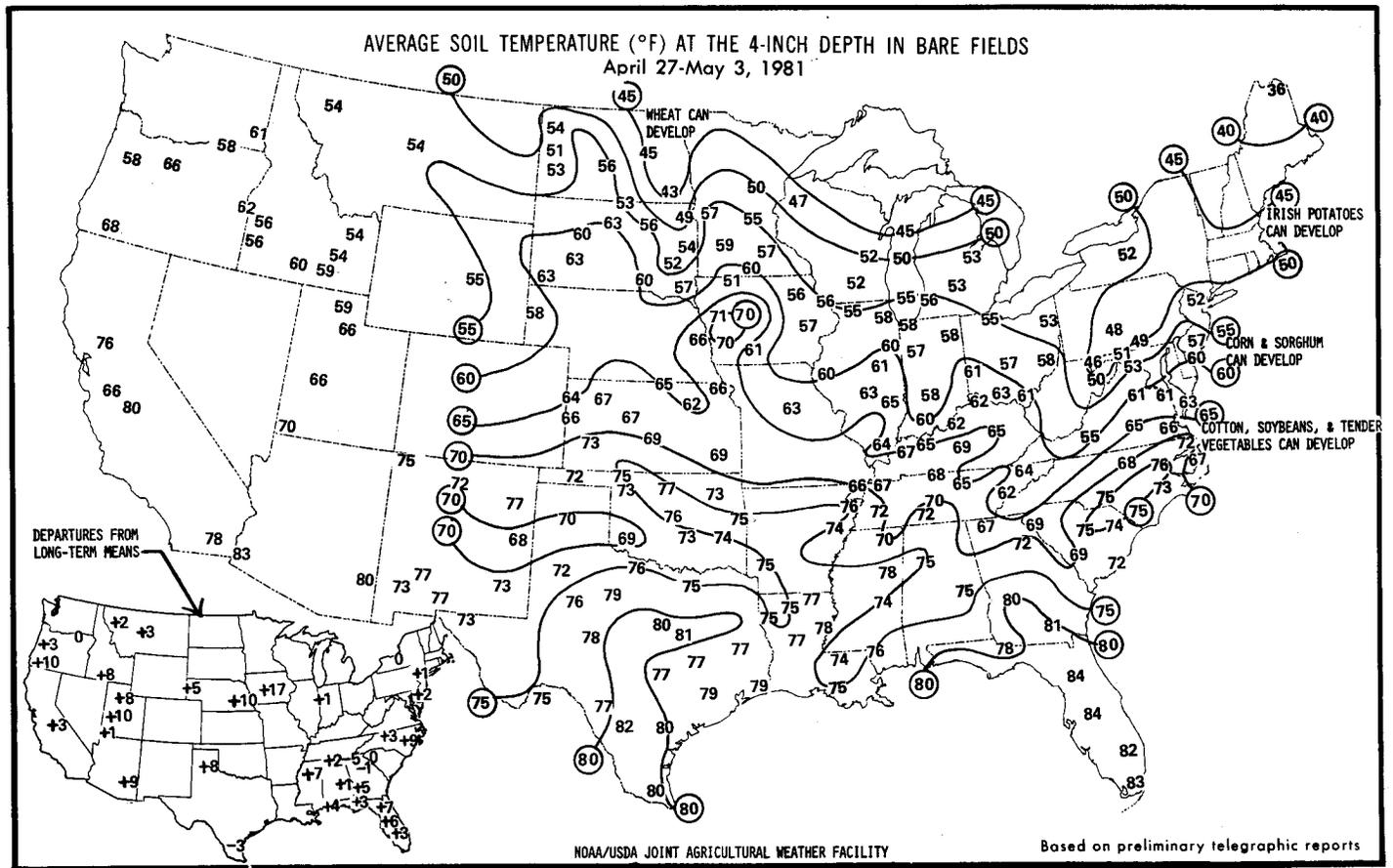
The Crop Moisture Index measures the degree to which moisture requirements of growing crops were met during the previous week. The index is computed from average weekly values of temperature and precipitation. These values are used to calculate the potential moisture demand. Taking into account the previous soil moisture condition and current rainfall, the actual moisture loss is determined.

If the potential moisture demand, or potential evapotranspiration, exceeds available moisture supplies, actual evapotranspiration is reduced and

the CMI gives a negative value. However, if moisture meets or exceeds demand the index is positive. Shaded areas indicate the index was unchanged or increased from the previous week's value; soils dried in the unshaded areas.

Local moisture conditions may vary because of differences in rainfall distribution or soil types. The type of agriculture and stage of crop development must be considered when assessing the impact of moisture conditions based on the Crop Moisture Index. Some general guidelines follow.





Weather Data for the Week Ending May 3, 1981

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. 2	PCT. NORMAL SINCE Mar. 2	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	TEMPERATURE °F		PRECIPITATION	
																		.01 INCH OR MORE	.50 INCH OR MORE		
AL BIRMINGHAM	82	53	87	44	67	2	.1	-.9	.1	3.3	62	9.7	62	89	34	0	0	1	0		
MOBILE	85	60	90	51	73	3	.1	-1.1	.1	1.6	27	11.6	73	91	36	1	0	1	0		
MONTGOMERY	82	58	87	52	70	3	1.0	.1	1.0	4.4	88	12.6	93	87	43	0	0	1	1		
AK ANCHORAGE	52	33	55	28	42	4	.4	.2	.4	.4	67	2.5	109	81	39	0	3	2	0		
BARROW	26	14	35	4	20	16	---	---	T	---	---	---	---	96	87	0	7	4	0		
FAIRBANKS	51	33	61	28	42	8	.1	0	.1	.1	25	1.1	85	55	31	0	3	5	0		
JUNEAU	59	38	64	28	48	7	T	-.7	T	1.6	52	10.9	104	86	37	0	1	1	0		
KODIAK	54	38	59	34	46	8	T	-.9	T	7.0	194	25.7	189	85	49	0	0	1	0		
NOME	35	28	35	22	31	9	1.2	-1.1	.5	1.9	271	4.8	200	88	74	0	7	5	0		
AZ FLAGSTAFF	71	44	76	32	58	14	.1	-.2	.1	3.3	220	5.8	114	73	26	0	1	2	0		
PHOENIX	94	71	100	67	83	13	T	-.1	T	1.0	143	2.9	161	45	18	7	0	0	0		
TUCSON	87	60	94	56	74	7	.7	-.7	.4	2.7	540	4.8	253	65	21	3	0	2	0		
WINSLOW	81	54	87	49	68	12	T	-.1	T	0	0	.9	69	54	18	0	0	0	0		
YUMA	92	68	96	63	80	7	0	0	0	.2	67	1.0	83	48	18	4	0	0	0		
AR FORT SMITH	82	56	87	45	69	4	1.2	0	1.1	3.8	103	8.1	87	90	42	0	0	3	1		
LITTLE ROCK	82	57	88	48	70	5	T	-1.3	T	2.6	57	8.8	66	95	41	0	0	1	0		
CA BAKERSFIELD	89	60	101	48	74	10	0	-.2	0	1.2	171	3.1	111	56	20	3	0	0	0		
EUREKA	58	47	62	42	53	3	T	-.6	T	2.5	63	13.7	89	73	0	0	0	0	0		
FRESNO	87	55	99	46	71	9	0	-.3	0	1.9	127	6.2	132	70	23	3	0	0	0		
LOS ANGELES	74	58	92	54	66	3	T	-.2	0	2.5	179	6.2	95	86	51	1	0	0	0		
RED BLUFF	86	59	93	50	73	11	0	-.4	0	2.9	126	10.3	101	70	24	3	0	0	0		
SAN DIEGO	72	63	80	60	68	6	T	-.1	T	2.1	175	7.6	165	87	64	0	0	0	0		
SAN FRANCISCO	74	50	92	46	62	6	0	-.3	0	3.1	148	11.4	118	82	41	1	0	0	0		
STOCKTON	89	51	99	45	70	10	0	-.3	0	2.7	169	7.8	115	83	26	4	0	0	0		
CO DENVER	77	51	81	48	64	13	.6	-.1	.6	2.3	192	3.0	130	65	25	0	0	1	1		
GRAND JUNCTION	79	51	87	45	65	10	.6	-.4	.4	1.2	171	1.5	83	58	23	0	0	2	0		
PUEBLO	83	51	89	48	67	14	.1	-.2	.1	.6	100	1.2	80	65	23	0	0	3	0		
CT BRIDGEPORT	64	47	71	45	55	4	.5	-.3	.2	.8	24	5.9	67	96	59	0	0	3	0		
HARTFORD	68	47	74	40	58	7	.7	-.1	.4	.8	24	8.4	83	79	37	0	0	4	0		
IC WASHINGTON	73	55	85	45	64	4	1.1	-.4	.6	1.7	57	4.9	60	88	50	0	0	4	0		
L APALACHICOLA	81	62	87	55	72	-1	T	-.7	T	1.9	48	6.5	58	98	55	0	0	0	0		
DAYTONA BEACH	82	60	88	55	71	0	0	-.5	0	1.9	66	7.7	96	86	48	0	0	0	0		
FORT MYERS	89	66	92	63	78	3	0	-.4	0	1.4	56	3.8	60	91	39	4	0	0	0		
JACKSONVILLE	86	58	92	47	72	2	0	-.7	0	4.3	134	9.9	102	97	35	2	0	0	0		
KEY WEST	84	75	86	74	80	1	T	-.5	T	.8	53	3.5	67	86	64	0	0	1	0		
MIAMI	86	71	90	69	79	3	.5	-.4	.5	1.3	65	6.6	102	78	46	2	0	1	1		
ORLANDO	88	62	91	57	75	2	.1	-.5	.1	1.8	60	6.4	75	90	36	2	0	1	0		
TALLAHASSEE	86	55	90	46	71	1	1.0	-.1	1.0	7.9	155	18.1	131	98	35	1	0	1	1		
TAMPA	84	62	87	55	73	-1	T	-.4	T	1.7	55	7.5	88	95	46	0	0	0	0		
WEST PALM BEACH	85	68	89	64	76	1	.7	-.2	.5	3.2	103	7.8	93	78	50	0	0	2	0		
GA ATLANTA	81	56	87	46	68	5	.1	-.9	.1	2.1	43	9.7	69	77	36	0	0	1	0		
AUGUSTA	83	50	89	41	67	1	0	-.7	0	2.1	54	8.2	72	89	30	0	0	0	0		
MACON	84	56	89	51	70	2	T	-.8	T	2.7	60	12.6	98	94	36	0	0	0	0		
SAVANNAH	87	59	91	51	73	5	T	-.6	T	3.4	89	7.3	76	78	27	4	0	0	0		
HI HILO	80	66	83	64	73	1	2.3	-.7	1.9	2.7	22	---	---	89	59	0	0	4	1		
HONOLULU	83	67	87	63	75	1	T	-.3	T	.5	19	2.3	23	84	53	0	0	0	0		
KAHULUI	81	67	87	62	74	0	---	---	---	---	---	---	---	83	56	0	0	3	0		
LIHUE	82	69	88	66	75	1	1.0	-.3	.2	3.0	75	---	---	85	56	0	0	6	0		
ID BOISE	70	45	82	31	58	6	T	-.3	T	2.1	210	4.3	113	76	32	0	1	1	0		
LEWISTON	71	50	87	41	60	8	.1	-.2	T	.6	67	2.6	84	80	39	0	0	1	0		
POCATELLO	68	44	81	37	56	8	.1	-.2	.1	1.1	110	2.5	86	77	35	0	0	2	0		
IL CAIRO	79	60	87	51	69	4	0	-1.1	0	1.2	27	5.9	48	---	0	0	0	0			
CHICAGO	66	41	79	34	54	2	2.1	-1.3	1.0	2.4	100	4.7	85	88	49	0	0	3	2		
MOLINE	69	46	86	32	58	4	.6	-.3	.4	.8	33	3.4	62	88	51	0	1	3	0		
PEORIA	69	47	84	35	58	4	.6	-.4	.4	.8	29	3.6	58	93	55	0	0	4	0		
ROCKFORD	65	42	80	31	54	2	1.1	-.2	.7	1.3	52	3.9	70	84	53	0	1	3	1		
SPRINGFIELD	73	51	87	38	62	6	.1	-.9	.1	1.3	50	3.8	61	89	44	0	0	2	0		
IN EVANSVILLE	77	53	88	41	65	5	.2	-.7	.1	1.2	29	4.6	41	91	39	0	0	3	0		
FORT WAYNE	64	45	78	37	54	2	1.2	-.4	.8	1.5	56	5.2	69	79	41	0	0	4	1		
INDIANAPOLIS	70	49	83	38	60	4	1.6	-.7	.9	2.4	73	5.7	66	82	46	0	0	4	2		
IA BURLINGTON	63	42	73	36	53	1	1.1	-.1	.9	1.3	50	4.0	56	93	57	0	0	3	1		
SOUTH BEND	69	49	83	39	59	5	.4	-.5	T	.6	24	2.4	44	91	54	0	0	0	0		
DES MOINES	76	51	88	42	64	10	T	-.7	T	.1	5	1.5	33	71	34	0	0	0	0		
DUBUQUE	65	47	80	44	56	5	1.3	-.3	.7	1.4	50	4.2	72	90	62	0	0	3	1		
SIoux CITY	76	49	80	41	62	9	.8	-.2	.8	1.0	63	1.8	56	73	33	1	0	1	1		
KS CONCORDIA	78	54	90	47	66	10	.4	-.2	.4	1.1	65	1.3	88	86	32	2	0	3	0		
DODGE CITY	85	57	92	48	71	14	.8	-.3	.3	1.7	131	2.1	88	86	32	2	0	2	1		
GOODLAND	77	49	85	44	63	11	1.1	-.7	1.0	4.3	478	5.3	294	84	36	0	0	2	1		
TOPEKA	77	49	86	37	63	5	T	-.9	T	1.1	52	1.6	39	88	43	0	0	1	0		
WICHITA	82	53	91	45	68	8	T	-.7	T	1.3	72	1.8	49	74	27	1	0	0	0		
KY LEXINGTON	72	50	82	39	61	3	.7	-.1	.4	2.0	49	6.9	59	87	43	0	0	3	0		
LOUISVILLE	76	54	87	44	65	6	.8	-.1	.6	1.7	41	5.3	46								

Weather Data for the Week Ending May 3, 1981

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. 2	PCT. NORMAL SINCE Mar. 2	TOTAL, IN., SINCE Jan. 7	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
LAKE CHARLES	84	66	90	62	75	4	.1	-1.0	.1	1.2	32	6.4	51	94	51	1	0	2	0
NEW ORLEANS	84	63	88	54	74	4	1.7	-.8	1.4	3.0	64	12.2	85	91	48	0	0	2	1
SHREVEPORT	81	61	87	55	71	2	1.2	-.1	.7	2.3	59	8.7	74	96	59	0	0	4	1
ME CARIBOU	56	34	63	30	45	7	.6	0	.6	2.7	129	7.1	109	84	38	0	0	1	1
PORTLAND	62	41	67	36	51	6	.4	-.4	.4	.9	28	8.9	86	93	46	0	0	2	0
MD BALTIMORE	71	49	85	41	60	3	1.5	-.8	1.0	2.4	75	5.9	66	84	46	0	0	4	1
MA BOSTON	65	47	74	44	56	5	.3	-.4	.3	.5	15	8.2	77	86	49	0	0	1	0
CHATHAM	56	44	63	42	50	1	.4	-.4	.3	1.2	11	9.0	71	93	70	0	0	3	0
MI ALPENA	56	35	65	29	46	2	.5	-.1	.5	1.0	56	3.5	70	91	45	0	4	1	1
DETROIT	61	41	69	36	51	0	.5	-.3	.4	.6	26	4.2	71	88	48	0	0	4	0
FLINT	60	38	68	34	49	0	.3	-.4	.3	.4	20	3.0	56	88	47	0	0	3	0
GRAND RAPIDS	63	36	71	29	50	0	.6	-.2	.6	.7	30	3.1	53	90	48	0	2	3	1
HOUGHTON LAKE	59	37	70	32	48	3	1.2	-.7	.8	1.5	88	4.6	100	87	42	0	3	2	1
LANSING	63	38	70	32	50	1	.4	-.3	.2	.6	26	2.5	43	95	53	0	1	3	0
MARQUETTE	51	30	58	26	41	0	.8	-.1	.7	2.6	130	6.9	128	93	50	0	6	4	1
MUSKEGON	61	37	70	30	49	1	.3	-.4	.3	.5	23	4.2	67	87	45	0	2	3	0
SAULT STE. MARIE	54	30	60	26	42	1	.4	-.1	.4	1.0	63	4.1	80	96	45	0	5	3	0
MN DULUTH	55	39	66	31	47	4	.9	-.3	.5	1.0	56	2.7	69	94	56	0	1	5	1
INT'L FALLS	58	38	72	29	48	6	.6	.2	.3	.6	55	1.1	41	89	45	0	1	4	0
MINNEAPOLIS	66	46	74	38	56	7	1.4	-.9	.9	1.4	93	3.8	127	84	44	0	0	4	1
ROCHESTER	64	43	76	36	54	5	1.7	1.1	1.0	1.7	100	3.9	139	96	59	0	0	5	1
SAINT CLOUD	64	47	78	38	55	9	1.2	-.7	.8	1.2	92	2.7	93	87	49	0	0	5	1
MS JACKSON	84	55	88	46	70	2	T	-1.1	T	3.7	74	9.1	64	94	41	0	0	0	0
MERIDIAN	84	55	89	45	70	2	T	-1.1	T	4.2	78	11.3	77	93	38	0	0	1	0
MO COLUMBIA	75	51	83	43	63	5	T	-1.0	T	.9	35	2.8	46	75	40	0	0	0	0
KANSAS CITY	76	53	85	46	65	7	T	-.8	T	.8	33	1.6	31	81	41	0	0	0	0
SAINT LOUIS	76	54	85	45	65	5	.8	-.1	.8	1.9	68	4.8	72	92	42	0	0	3	1
SPRINGFIELD	78	51	83	43	64	5	1.1	-.1	.8	2.4	83	5.1	72	89	43	0	0	2	1
MT BILLINGS	68	44	88	38	56	8	.3	-.1	.2	1.3	130	1.6	70	77	39	0	0	3	0
GLASGOW	70	41	85	37	56	9	.1	-.1	.1	.1	20	.2	14	70	20	0	0	1	0
GREAT FALLS	67	43	82	30	55	8	T	-.3	T	1.2	133	2.0	77	72	28	0	1	1	0
HAVRE	66	40	81	31	53	6	T	-.3	T	.2	33	.3	20	70	25	0	2	1	0
HELENA	67	45	81	31	56	10	.4	-.1	.2	1.0	143	1.2	75	75	32	0	1	3	0
KALISPELL	64	39	76	27	52	7	.3	0	.1	.8	89	4.3	119	92	36	0	2	3	0
MILES CITY	70	47	89	40	59	10	T	-.3	T	0	0	.2	13	73	26	0	0	1	0
MISSOULA	65	44	80	31	55	8	.3	.1	.3	.6	120	1.5	60	87	40	0	1	1	0
NE GRAND ISLAND	77	50	87	42	64	10	.4	-.3	.4	2.1	150	2.5	96	76	35	0	0	1	0
LINCOLN	78	51	87	43	64	10	1.4	-.8	1.4	2.8	175	3.2	107	77	38	0	0	1	1
NORFOLK	77	51	90	42	64	12	.5	0	.5	.6	43	1.1	41	71	27	1	0	1	1
NORTH PLATTE	74	49	86	42	62	11	.7	.2	.3	1.5	136	1.8	90	90	42	0	0	3	0
OMAHA	77	50	87	40	64	10	2.1	1.4	1.9	2.7	159	3.1	91	77	31	0	0	1	1
VALENTINE	74	47	89	32	61	11	.4	-.1	T	.6	67	.8	44	67	29	0	1	0	0
NV ELY	73	37	81	28	55	11	-.1	-.2	.1	1.0	111	2.0	105	70	17	0	2	2	0
LAS VEGAS	93	66	99	61	79	13	0	-.1	0	.9	225	1.8	138	30	11	5	0	0	0
RENO	79	38	89	28	59	10	0	-.1	0	.4	80	1.4	52	71	16	0	1	0	0
WINNEMUCCA	78	40	90	29	59	12	0	-.2	0	.5	71	1.5	63	57	14	1	2	0	0
NH CONCORD	67	39	73	31	53	6	.5	-.2	.4	1.0	38	9.2	119	77	32	0	2	4	0
NJ ATLANTIC CITY	70	49	85	46	60	5	2.2	1.5	1.4	3.1	84	7.4	69	93	46	0	0	4	2
TRENTON	68	49	76	45	59	3	.8	0	T	1.4	41	5.2	58	90	45	0	0	0	0
NM ALBUQUERQUE	84	55	88	50	70	11	.2	-.1	.1	.8	160	1.6	114	63	17	0	0	2	0
ROSWELL	83	57	88	51	70	8	1.8	1.7	1.7	2.0	500	2.5	192	84	30	0	0	1	1
NY ALBANY	66	41	69	32	53	3	.3	-.4	.2	.4	16	6.0	86	85	41	0	1	2	0
BINGHAMTON	60	43	64	36	51	4	1.1	-.4	.8	1.5	58	6.3	85	84	46	0	0	2	1
BUFFALO	57	40	63	35	49	1	.4	-.3	.3	1.5	58	6.1	75	85	47	0	0	2	0
NEW YORK	67	49	74	36	58	4	.6	-.2	.4	1.4	40	7.4	77	86	42	0	0	3	0
ROCHESTER	60	41	68	32	50	1	.2	-.4	.1	.8	35	5.2	73	92	47	0	1	2	0
SYRACUSE	63	42	66	34	53	3	.2	-.5	.2	.7	25	4.7	57	81	41	0	0	2	0
NC ASHEVILLE	77	45	85	33	61	2	T	-.8	T	1.7	43	6.9	61	97	35	0	0	1	0
CHARLOTTE	80	53	90	40	67	4	T	-.7	T	1.1	28	5.2	45	82	27	1	0	0	0
GREENSBORO	77	50	89	38	64	2	-.2	-.5	.1	1.5	47	5.8	59	85	32	0	0	1	0
HATTERAS	73	61	80	54	67	6	.5	-.2	.4	1.6	47	5.4	44	84	53	0	0	2	0
RALEIGH	79	52	89	38	66	4	T	-.7	T	1.4	47	5.4	56	87	33	0	0	1	0
WILMINGTON	82	56	90	42	69	4	.1	-.6	.1	2.8	78	7.0	68	91	33	2	0	1	0
ND BISMARCK	65	41	79	28	53	6	.4	0	.4	.4	50	1.0	59	89	36	0	1	2	0
FARGO	66	43	81	31	55	8	-.5	-.1	.3	.5	50	1.1	58	90	38	0	1	4	0
WILLISTON	69	43	81	37	56	10	-.1	-.2	.1	.1	17	.5	33	81	33	0	0	2	0
OH AKRON-CANTON	64	42	81	33	53	2	1.4	-.6	.6	2.4	86	7.8	100	80	43	0	0	3	2
CINCINNATI	72	49	85	40	61	4	.3	-.5	.3	1.3	36	5.8	57	93	56	0	0	2	0
CLEVELAND	61	41	75	33	51	0	.6	-.3	.4	1.4	50	5.0	63	91	48	0	0	2	0
COLUMBUS	68	48	84	41	58	4	1.1	-.2	.8	1.8	58	7.2	86	81	44	0	0	4	1
DAYTON	66	45	82	37	55	1	1.1	-.3	.4	1.9	63	5.5	68	97	58	0	0	4	0
TOLEDO	63	39	74	34	51	0	1.1	-.4	1.1	1.3	57	5.2	84	94	52	0	0	3	1
YOUNGSTOWN	63	40	79	32	51	1	1.1	-.2	.6	2.1	68	6.8	80	84	45	0	1	2	2
OK OKLAHOMA CITY	82	58	89	52	70	7	.2	-.7	.1	2.5	114	3.8	78	85	41	0	0	3	0

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

Weather Data for the Week Ending May 3, 1981

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. 2	PCT. NORMAL SINCE Mar. 2	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
OR TULSA	83	58	87	49	70	7	.2	.8	.2	1.8	69	4.2	71	98	42	0	0	3	0
OR ASTORIA	59	48	74	45	54	5	2.3	1.3	.8	3.5	63	14.6	62	90	69	0	0	5	2
OR BURNS	67	39	81	30	53	7	0	.2	0	1.0	125	2.7	71	84	32	0	2	0	0
OR MEDFORD	74	45	88	35	60	8	0	.2	0	.7	47	3.1	42	92	40	0	0	0	0
OR PENDLETON	68	48	81	41	58	5	.2	.1	0	.7	78	3.0	79	79	38	0	0	0	0
OR PORTLAND	66	50	79	46	58	6	.5	.1	.4	2.1	70	7.5	58	94	57	0	0	2	0
OR SALEM	67	45	80	39	56	5	.2	.2	.2	1.8	50	7.2	47	93	56	0	0	2	0
PA ALLENTOWN	67	45	75	39	56	3	.6	.3	.3	1.2	36	6.5	71	87	41	0	0	4	0
PA ERIE	56	37	68	33	47	-3	1.5	.7	.8	2.4	92	8.5	115	90	55	0	0	2	.1
PA HARRISBURG	69	47	77	38	58	2	.5	.2	.2	1.4	48	7.7	95	83	37	0	0	2	0
PA PHILADELPHIA	70	50	80	46	60	4	.8	0	.7	2.0	63	5.5	64	89	42	0	0	3	1
PA PITTSBURGH	65	42	80	32	53	0	1.5	.8	.9	3.0	97	7.7	93	87	44	0	1	2	2
PA SCRANTON	64	44	72	36	54	3	.9	.1	.6	1.2	50	9.9	152	77	44	0	0	2	1
RI PROVIDENCE	64	46	71	42	55	6	.5	.1	.6	1.2	50	9.9	152	77	44	0	0	2	1
SC CHARLESTON	86	58	93	42	72	5	T	.6	T	1.8	45	5.2	50	86	30	3	0	0	0
SC COLUMBIA	84	54	92	37	69	3	T	.8	T	1.5	33	5.6	43	75	28	0	0	1	0
SC GREENVILLE	81	53	89	42	67	4	T	.9	T	1.5	33	5.6	43	75	28	0	0	1	0
SD ABERDEEN	69	45	84	30	57	9	.1	.4	.1	.1	10	.5	25	82	36	0	1	0	0
SD HURON	74	46	91	32	60	10	T	.4	T	0	0	.1	5	85	29	1	1	2	0
SD RAPID CITY	72	45	82	38	58	10	.4	.2	.3	.5	45	.8	38	78	31	0	0	3	0
SD SIOUX FALLS	75	48	91	41	61	11	.1	.4	.1	.1	7	.6	19	78	33	1	0	2	0
TN CHATTANOOGA	79	51	87	43	65	2	.1	.8	.1	2.4	49	9.6	66	90	32	0	0	1	0
TN KNOXVILLE	76	52	83	41	64	1	.3	.4	.3	1.8	44	6.6	48	84	40	0	0	2	0
TN MEMPHIS	82	62	87	53	72	7	.5	.7	.5	3.2	71	8.2	57	76	35	0	0	2	0
TN NASHVILLE	78	52	86	41	65	2	.4	.5	.4	2.5	56	8.0	58	90	36	0	0	2	0
TX ABILENE	82	62	89	51	72	5	T	.6	T	1.9	173	4.5	141	90	49	0	0	2	0
TX AMARILLO	84	56	93	52	70	11	.4	.1	.2	2.2	314	2.5	156	81	33	3	0	1	0
TX AUSTIN	83	68	92	66	76	5	1.0	.1	.7	3.5	159	6.9	93	96	62	1	0	3	1
TX BEAUMONT	83	68	89	64	76	4	1.7	.6	1.1	3.7	116	10.5	90	96	63	0	0	2	2
TX BROWNSVILLE	89	72	92	65	81	4	1.0	.7	.9	4.5	643	7.1	182	93	57	3	0	1	1
TX CORPUS CHRISTI	83	68	88	55	76	1	5.0	4.4	3.0	7.4	569	11.8	236	100	69	0	0	3	2
TX DEL RIO	81	68	87	65	75	1	1.7	1.3	1.1	2.7	338	3.6	144	93	67	0	0	2	1
TX EL PASO	85	58	91	55	71	5	.7	.6	.6	1.1	220	2.7	193	85	29	1	0	2	1
TX FORT WORTH	83	62	91	55	73	5	1.5	.4	1.1	4.0	154	6.4	93	94	54	1	0	3	1
TX GALVESTON	79	72	83	71	76	4	.2	.4	.2	.5	20	4.0	48	96	79	0	0	1	0
TX HOUSTON	86	69	92	63	77	6	5.2	4.3	5.1	6.6	236	11.2	111	92	57	2	0	4	1
TX LUBBOCK	81	60	87	57	71	8	.1	.2	.1	1.3	144	2.2	122	92	41	0	0	2	0
TX MIDLAND	80	58	84	54	69	2	T	.3	T	.4	57	1.7	106	93	51	0	0	1	1
TX SAN ANGELO	80	61	86	56	71	1	.3	.2	.2	2.5	227	4.8	178	91	55	0	0	2	0
TX SAN ANTONIO	83	69	90	66	76	4	1.7	1.0	1.1	2.9	171	6.7	118	99	65	1	0	3	1
TX VICTORIA	84	69	90	64	77	4	3.4	2.7	2.1	4.4	232	7.8	128	100	67	1	0	3	2
TX WACO	86	65	94	60	75	5	.2	.8	.1	1.5	60	4.7	69	95	55	2	0	1	0
TX WICHITA FALLS	84	62	91	56	73	6	1.7	.8	1.0	3.4	170	6.9	157	93	53	1	0	3	2
UT BLANDING	77	50	84	46	64	14	.1	.1	.1	2.5	313	2.9	100	59	21	0	0	1	0
UT SALT LAKE CITY	73	47	87	40	60	8	.7	.3	.6	1.3	87	2.8	68	76	26	0	0	3	1
VT BURLINGTON	63	42	65	34	52	6	.2	.5	.2	1.0	53	6.9	130	86	40	0	0	1	0
VA LYNCHBURG	75	50	88	33	62	3	.1	.5	.1	.9	30	5.2	60	82	34	0	0	1	0
VA NORFOLK	74	54	89	50	64	4	.1	.5	.1	1.0	34	4.3	44	83	39	0	0	1	0
VA RICHMOND	76	50	89	43	63	3	.2	.4	.1	.9	30	4.3	48	85	38	0	0	2	0
VA ROANOKE	73	47	86	34	60	2	.2	.4	.2	1.3	46	4.1	47	87	36	0	0	1	0
WA COLVILLE	67	43	82	35	55	6	T	.2	T	.9	82	3.7	80	84	44	0	0	2	0
WA OMAK	75	54	77	50	64	13	0	.2	0	.5	63	3.6	103	59	40	0	0	0	0
WA QUILAYUTE	57	45	72	41	51	4	4.9	3.2	1.9	8.3	90	23.9	66	99	75	0	0	7	3
WA SEATTLE-TACOMA	61	47	73	42	54	4	.4	.1	.1	1.4	47	8.3	64	88	58	0	0	4	0
WA SPOKANE	65	43	82	34	54	5	T	.3	T	.2	14	2.6	46	88	40	0	0	0	0
WA WALLA-WALLA	71	50	85	42	60	4	.4	0	T	1.8	138	6.0	120	80	37	0	0	0	0
WA YAKIMA	72	43	87	33	57	5	0	.1	0	.1	20	1.7	65	79	33	0	0	0	0
WV BECKLEY	66	45	78	30	56	2	.2	.5	.1	1.5	42	4.2	40	86	41	0	1	3	0
WV CHARLESTON	72	48	86	32	60	1	1.0	.2	.5	2.4	69	8.0	77	96	42	0	1	3	1
WV HUNTINGTON	72	50	86	35	61	3	1.3	.6	1.0	2.6	70	7.5	76	96	47	0	0	3	1
WV PARKERSBURG	69	46	86	33	57	0	.3	.4	.2	.4	24	3.1	67	84	38	0	0	3	1
WI GREEN BAY	60	38	76	31	49	2	.7	.1	.5	.7	37	3.0	81	98	54	0	0	5	0
WI LA CROSSE	65	47	79	37	56	5	.4	.3	.4	.5	25	3.0	68	89	48	0	1	2	0
WI MADISON	65	39	81	30	52	3	.5	.1	.3	.6	30	3.8	78	84	52	0	0	2	0
WI MILWAUKEE	57	38	75	33	48	0	.5	.1	.3	.6	30	3.8	78	84	52	0	0	2	0
WY CASPER	70	41	80	33	56	10	.9	.6	.6	1.5	167	2.2	122	86	31	0	0	3	1
WY CHEYENNE	71	43	78	37	57	11	1.4	1.0	1.3	1.8	180	2.3	121	80	31	0	0	2	1
WY LANDER	71	43	80	34	57	11	.2	.4	.2	1.5	115	2.4	100	72	34	0	0	2	0
WY SHERIDAN	66	39	84	33	52	6	.3	.3	.1	.6	46	1.2	43	86	39	0	0	4	0
PR SAN JUAN	89	76	91	74	82	4	2.2	1.2	1.3	4.7	204	10.1	117	91	65	3	0	6	1

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

HEATING DEGREE DAYS (BASE 65°) FOR WEEK ENDING MAY. 3. 1981.

STATES AND STATIONS	WEEKLY			SEASONAL ACCUMULATION +			STATES AND STATIONS	WEEKLY			SEASONAL ACCUMULATION +			STATES AND STATIONS	WEEKLY			SEASONAL ACCUMULATION +		
	TOTAL	DEPARTURE*	DEPARTURE FROM 1979-80	TOTAL	DEPARTURE*	DEPARTURE FROM 1979-80		TOTAL	DEPARTURE*	DEPARTURE FROM 1979-80	TOTAL	DEPARTURE*	DEPARTURE FROM 1979-80		TOTAL	DEPARTURE*	DEPARTURE FROM 1979-80			
ALA. BIRMINGHAM...	008	101	2951	124	124	87	MAINE CARIBOU...	130	22	8769	282	333	YOUNGSTOWN.....	92	4	6549	384	160		
MOBILE.....	008	101	1804	124	124	161	PORTLAND.....	130	22	7017	44	165	OKLA. OKLAHOMA CITY	00	148	3241	424	460		
MONTGOMERY.....	008	101	2431	124	124	356	MD BALTIMORE.....	43	6	4729	91	324	TULSA.....	00	148	3157	501	341		
ARIZ. FLAGSTAFF.....	4	84	1410	1413	1413	0	MASS BOSTON.....	61	21	5674	265	328	OREG ASTORIA.....	78	28	3776	915	339		
PHOENIX.....	4	84	643	909	365	0	FLINT.....	137	95	7493	477	231	BURNS.....	45	228	6383	270	109		
TUCSON.....	4	84	1269	483	145	0	DETROIT.....	137	95	6540	359	275	MEDFORD.....	45	228	4090	579	73		
WINSLON.....	4	84	3978	638	600	0	GRAND RAPIDS.....	137	95	6661	150	275	PENDLETON.....	45	228	4660	320	601		
YUMA.....	4	84	392	613	153	0	HOUGHTON LAKE.....	137	95	6661	150	275	PORTLAND.....	45	228	4501	320	344		
ARK. FORT SMITH.....	4	84	3222	100	439	0	LANSING.....	137	95	6661	150	275	SALEM.....	45	228	4125	320	216		
LITTLE ROCK.....	4	84	2993	345	18	0	MUSKOGEE.....	137	95	6661	150	275	PA ALLENTOWN.....	62	25	5521	124	371		
CALIF. BAKERSFIELD	8	168	1724	445	139	0	ST. MARIE.....	137	95	6661	150	275	ERIE.....	45	228	6392	174	174		
EUREKA.....	8	168	3594	445	55	0	MINN DULUTH.....	129	1	8893	245	56	HARRISBURG.....	45	228	5237	128	142		
FRESNO.....	8	168	2848	445	55	0	INTERNATL FALLS.....	129	1	9375	601	449	PHILADELPHIA.....	40	1	5089	322	399		
LOS ANGELES.....	10	200	2181	445	17	0	MINNEAPOLIS.....	129	1	8893	245	56	PIESBURGH.....	40	1	6195	366	237		
RED BLUFF.....	10	200	2023	605	137	0	ROCHESTER.....	129	1	8893	245	56	SLANTON.....	40	1	6197	128	544		
SAN DIEGO.....	10	200	2482	605	137	0	ST. CLOUD.....	129	1	8893	245	56	R. I. PROVIDENCE.....	66	25	5863	149	520		
SAN FRANCISCO.....	10	200	2254	605	137	0	MISS JACKSON.....	2	5	2573	276	89	S. C. CHARLESTON.....	128	1	2403	25	187		
STOCKTON.....	10	200	2321	605	137	0	MERIDIAN.....	2	5	2370	5	76	COLUMBIA.....	128	1	3541	45	179		
COLO. DENVER.....	10	200	4476	1243	1245	0	MO. COLUMBIA.....	20	24	4811	157	455	GREENVILLE.....	128	1	3541	45	179		
GRAND JUNCTION.....	10	200	4329	1243	1245	0	KANSAS CITY.....	17	19	4751	482	544	S. DAK. ABERDEEN.....	58	42	6949	1313	760		
PUEBLO.....	10	200	4174	1243	1245	0	ST. LOUIS.....	17	19	4751	482	544	HURON.....	43	2	6614	1134	573		
CONN. BRIDGEPORT.....	6	12	5531	285	290	0	SPRINGFIELD.....	16	20	4105	379	283	RAPID CITY.....	50	50	5644	1254	338		
HARTFORD.....	6	12	6177	43	323	0	MONT. BILLINGS.....	63	42	5346	1408	643	SIoux FALLS.....	36	53	6539	1011	551		
DEL. WILMINGTON.....	30	25	4877	43	183	0	GLASGOW.....	63	42	5346	1408	643	TENN. CHATTANOOGA.....	18	28	3587	124	42		
D.C. WASHINGTON.....	25	8	3745	407	174	0	GREAT FALLS.....	63	42	5346	1408	643	KNOXVILLE.....	26	1	3891	451	334		
FLA. APALACHICOLA.....	0	0	1578	217	150	0	HAVRE.....	63	42	5346	1408	643	MEMPHIS.....	1	1	2685	522	427		
DAYTONA BEACH.....	0	0	1126	229	240	0	HELENA.....	63	42	5346	1408	643	NASHVILLE.....	21	1	3659	1	150		
FORT MYERS.....	0	0	467	10	126	0	KALISPELL.....	63	42	5346	1408	643	TEXAS ABILENE.....	0	0	2419	183	100		
JACKSONVILLE.....	0	0	1622	295	210	0	MILLS CITY.....	63	42	5346	1408	643	AMARILLO.....	0	0	3750	353	333		
KEY WEST.....	0	0	174	112	101	0	MISSOULA.....	63	42	5346	1408	643	AUSTIN.....	0	0	1673	64	117		
LAKELAND.....	0	0	949	271	339	0	NEBR. GRAND ISLAND.....	20	49	5247	920	920	BEAUMONT.....	0	0	1688	170	121		
MIAMI.....	0	0	282	61	339	0	LINCOLN.....	20	49	5247	920	920	BROWNSVILLE.....	0	0	677	229	285		
ORLANDO.....	0	0	1828	343	480	0	NORFOLK.....	20	49	5247	920	920	CORPUS CHRISTI.....	0	0	1101	171	182		
TALAHASSEE.....	0	0	1828	343	480	0	NORTH PLATTE.....	20	49	5247	920	920	DEL RIO.....	0	0	1488	359	446		
TAMPA.....	0	0	2293	26	355	0	OHAMA.....	20	49	5247	920	920	DEL PASO.....	0	0	2471	207	141		
WEST PALM BEACH.....	0	0	346	47	2	0	VALENTINE.....	20	49	5247	920	920	FORT WORTH.....	0	0	2309	73	831		
GA. ATLANTA.....	1	0	2933	141	139	0	NEV. ELV.....	70	65	6148	1011	211	GALVESTON.....	0	0	2309	168	182		
AUGUSTA.....	1	0	2851	311	146	0	LAS VEGAS.....	70	65	6148	1011	211	HOUSTON.....	0	0	1498	360	900		
MADISON.....	1	0	2194	43	68	0	RENO.....	70	65	6148	1011	211	LUBBOCK.....	0	0	1123	360	184		
SAVANNAH.....	1	0	2147	195	267	0	MINNEAPOLIS.....	45	65	5334	832	68	RIDLAND.....	0	0	2885	274	88		
IDAHO. BOISE.....	5	29	5094	424	45	0	N. H. CONCORD.....	82	27	7347	315	491	SAN ANGELO.....	0	0	1570	90	131		
LEWISTON.....	5	29	4433	74	256	0	N. J. ATLANTIC CITY.....	42	16	5701	872	662	SAN ANTONIO.....	0	0	1343	116	31		
POCATELLO.....	5	29	6160	472	47	0	TRENTON.....	46	11	5169	334	558	WACO.....	0	0	2093	35	262		
ILL. CAIRO.....	9	8	3507	294	409	0	N. MEX. ALBUQUERQUE	0	5	3924	323	132	WICHITA FALLS.....	0	0	2650	244	361		
CHICAGO.....	9	8	5919	330	305	0	ROSWELL.....	0	5	3182	501	331	UTAH SALT LAKE CITY	38	41	4852	839	149		
MOLINE.....	11	9	5985	233	418	0	N. Y. ALBANY.....	7	10	6904	266	574	VT. BURLINGTON.....	83	30	7577	49	681		
PEORIA.....	12	10	5741	187	496	0	BINGHAMTON.....	13	13	7135	202	494	VA. LYNCHBURG.....	34	2	4298	135	75		
ROCKFORD.....	12	10	6219	397	740	0	BUFFALO.....	11	13	6463	125	193	NORFOLK.....	25	2	3750	304	301		
SPRINGFIELD.....	12	10	5085	350	518	0	NEW YORK.....	11	13	5100	312	459	RICHMOND.....	25	2	4418	291	592		
IND. EVANSVILLE.....	2	13	4437	107	496	0	ROCHESTER.....	10	10	6590	152	220	ROANOKE.....	43	3	4414	192	135		
FORT WAYNE.....	2	13	6056	26	378	0	SYRACUSE.....	8	8	6544	152	320	WASH. GUILLAYUTE.....	38	19	4567	705	194		
INDIANAPOLIS.....	4	11	5458	26	339	0	N. C. ASHEVILLE.....	35	1	4158	20	192	SEATTLE-TACOMA.....	29	19	4015	729	315		
SOUTH BEND.....	5	5	5623	596	148	0	CHARLOTTE.....	17	1	3516	326	123	SPokane.....	27	19	4821	488	124		
IOWA. BURLINGTON.....	10	10	5752	225	433	0	GREENSBORO.....	22	10	3982	207	209	HALLA HALLA.....	57	11	4198	438	477		
DES MOINES.....	10	10	6391	645	146	0	HATTERAS.....	10	10	3192	499	437	YARITA.....	59	11	4711	998	844		
DUBUQUE.....	10	10	5917	645	146	0	RALEIGH.....	20	10	3751	276	240	W. VA. BECKLEY.....	65	6	5605	229	58		
SIoux CITY.....	10	10	5917	645	146	0	MILLINGTON.....	14	10	2913	484	272	CHARLESTON.....	48	6	4890	366	128		
KANS. CONCORDIA.....	15	41	4555	917	943	0	N. DAK. BISHARCK.....	80	29	7251	1377	910	HUNTINGTON.....	44	1	4790	211	181		
DODGE CITY.....	15	41	4035	843	1224	0	FARGO.....	74	38	8040	846	641	PARKERSBURG.....	53	1	4852	145	128		
GOODLAND.....	20	20	4957	923	850	0	MILLISTON.....	61	51	7089	1638	953	WIS. GREEN BAY.....	112	3	7431	283	9		
TOPEKA.....	20	20	4628	502	641	0	OHIO AKRON-CANTON.....	80	0	6030	40	35	LACROSSE.....	60	20	6520	661	502		
WICHITA.....	20	20	3940	669	864	0	CINCINNATI.....	44	15	5348	404	469	MADISON.....	60	20	6889	512	449		
KY. LEXINGTON.....	36	6	4767	135	122	0	CLEVELAND.....	98	15	2224	314	96	HILMAUREE.....	120	12	6827	224	156		
LOUISVILLE.....	20	20	4269	282	337	0	COLUMBUS.....	59	11	5439	101	134	WYO. CASPER.....	66	53	5960	1109	1236		
LA. BATON ROUGE.....	1	0	1860	311	33	0	DAYTON.....	70	11	5679	191	141	CHEYENNE.....	66	65	5595	1165	1104		
LAKE CHARLES.....	1	0	1805	311	146	0	TOLEDO.....	95	14	6599	451	225	LANDER.....	66	62	6158	1228	1166		
NEW ORLEANS.....	1	0	1500	35	6	0						SHERIDAN.....	86	32	6036	1176	942			
SHREVEPORT.....	1	0	2277	110	36	0														

## National Summaries of Weather and Agriculture

### April Weather Review

**HIGHLIGHTS:** Some rain fell in nearly all parts of the Nation. Only isolated areas in the Southwest were rainless. Most of western Texas had well above normal amounts of rain from showers and thunderstorms. Severe weather increased rapidly as the month progressed. Hail, high winds and tornadoes plagued many areas east of the Rockies and summerlike temperatures broke records from California across the South, in the central Plains and in the Midwest.

The first four days of the month were stormy as a cold front moved from the Rockies through the eastern United States. Thunderstorms triggered 10 tornadoes in Iowa and Wisconsin. High temperatures ahead of the front reached into the eighties as far north as New York State.

**FIRST WEEK...**A cold front, moving through the Pacific Northwest and into the northern Plains, brought cooler temperatures and gusty, westerly winds which blew dust across Montana. Ahead of the front, strong southerly winds through the central Plains caused the mercury to rise into the seventies in Minnesota. The front moved eastward through the northern States and triggered severe thunderstorms. Large hail and some tornadoes developed from Iowa to Pennsylvania.

**SECOND WEEK...**A succession of cold fronts moved from the northern Rockies through the eastern United States. Freezing temperatures reached into the central Plains early in the week and into the mid-Atlantic States later. As the cool air moved eastward it was replaced by unseasonably warm air--80° readings reached into the northern Plains. Showers and thunderstorms were widespread from the Southwest to the southern and central Plains, the middle Mississippi Valley, the Ohio Valley, and the mid-Atlantic States through New England. Heavy rain produced flooding in Texas and in southern Ohio; tornadoes twisted through areas from Oklahoma and Arkansas to southern Indiana. Strong south easterly winds blew dust back into Montana from the Dakotas.

**THIRD WEEK...**A low pressure system trailing a cold front southwestward, moved slowly from southern Alberta, Canada, across the northern tier of the United States. Some very welcome showers fell in the northern Plains but the amounts of rain were small. The southeastern States got some rain after over 2 rainless weeks. Severe weather plagued the State of Texas almost every day of the week and wet weather kept farmers out of the fields in many parts of the eastern United States. At the end of the week, temperatures were unseasonably warm. Temperature readings of 90° in Missouri and Iowa set record highs.

**FOURTH WEEK...**The four days of the last week in April were highlighted by record breaking heat in the west and, early in the week, across the South, the central Plains, and the Midwest. Thunderstorms produced hail in the Pacific Northwest and some snow fell in the higher elevations. Nearly all of the area east of the Rockies had showers or thunderstorms. Some heavy rains fell in east Texas and the northern Mississippi Valley and severe weather plagued the area from Minnesota to western Pennsylvania. Heavy rains in Pennsylvania caused local flooding.

### APRIL FIELDWORK

Land preparation and spring planting made rapid progress during the first half of April, but advanced slowly in some parts of the Nation during the latter half of the month. Rain and wet fields in the eastern Corn Belt delayed outside activities during much of the second part of April. By the end of the month spring planting was ahead of schedule in all areas except the eastern Corn Belt.

Corn planting was active at the beginning of April in the South and got underway in the Corn Belt about midmonth. By May 3, planting was 24% complete, lagging last year's 36% and the 26% average. All States were ahead of normal except Illinois, Indiana, Iowa, Michigan, Minnesota, and Ohio. Rain and wet fields slowed progress in these States and planting fell behind schedule. In the western Corn Belt rapid progress was made during the last week of the month.

Cotton planting was 45% complete by May 3, 6 points ahead of last year's progress. California planting was 94% complete and Arizona at 85%. All major States except Georgia, New Mexico, and Oklahoma were ahead of schedule. Rapid progress was made in most areas at the end of the month.

Spring wheat seeding reached 77% complete by May 3, compared to 72% last year and the average of only 49%. Montana producers seeded 30% of their acreage during the week ending May 3. Oats planting progress was ahead of normal throughout April. Emergence of spring planted grains in the northern Plains is spotty because of the lack of moisture.

Grain sorghum planting reached northward into Nebraska and parts of South Dakota, although most activity centered in southern areas.

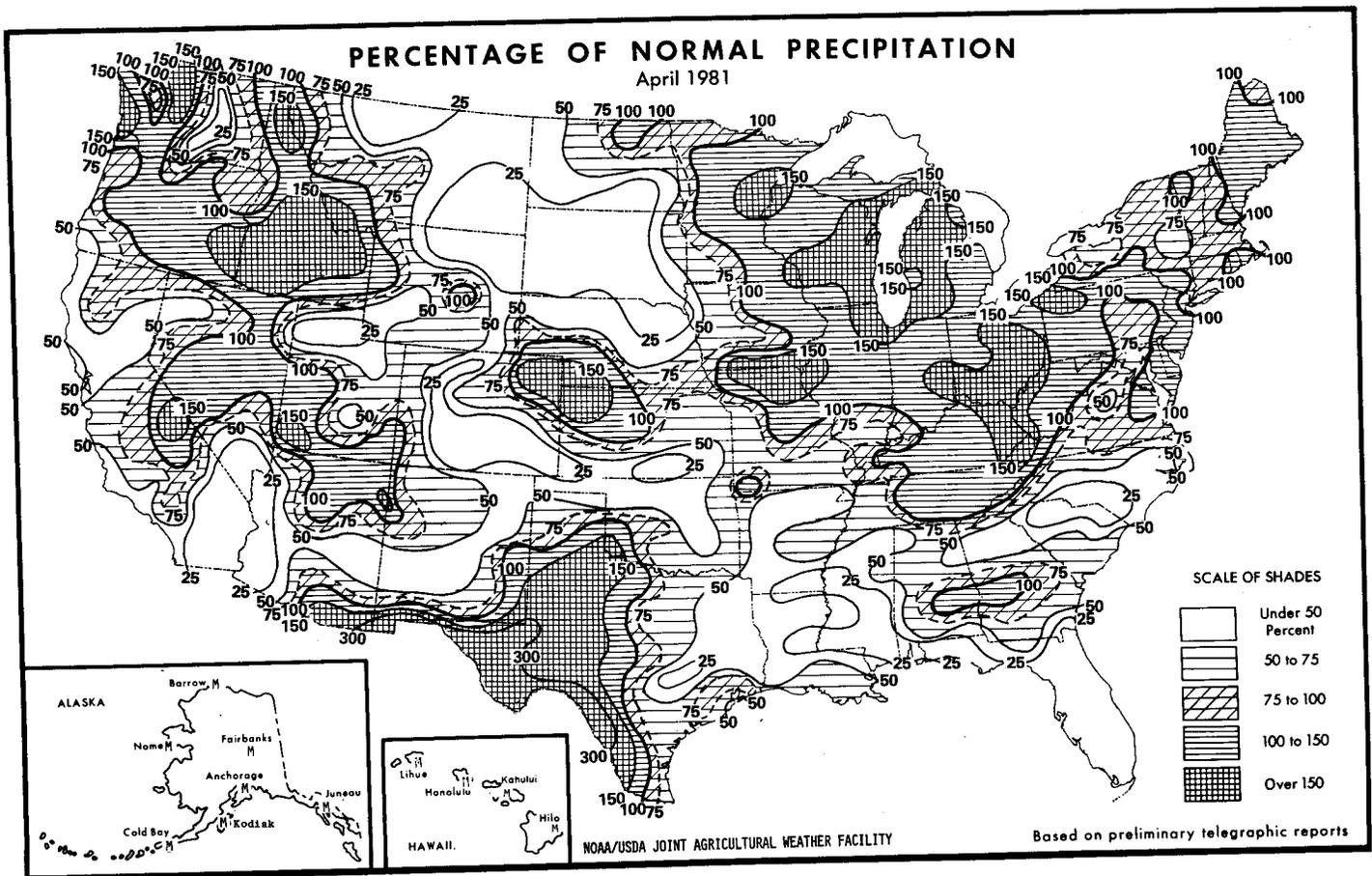
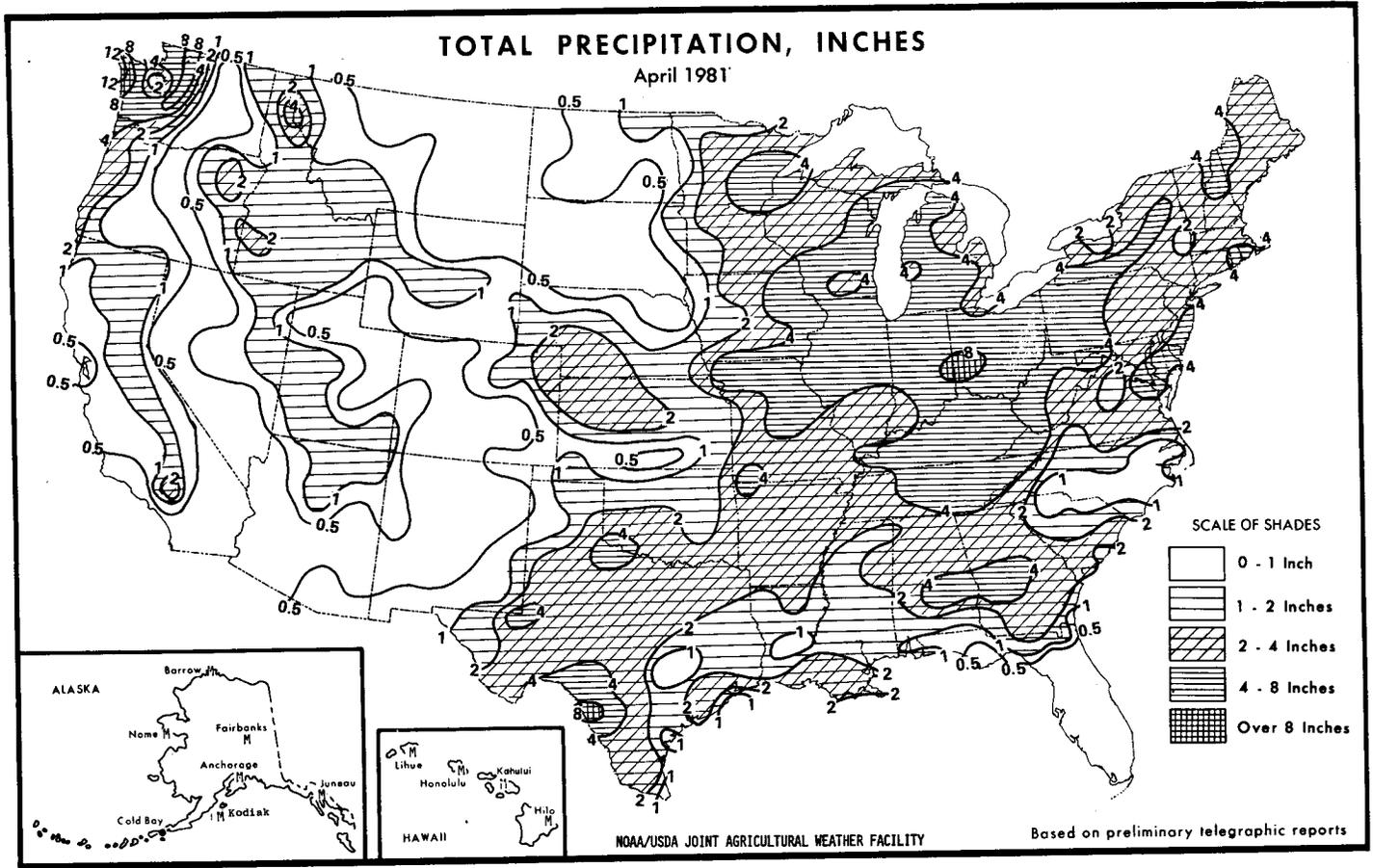
Rice seeding advanced to 68% complete by May 3, 6 points ahead of normal.

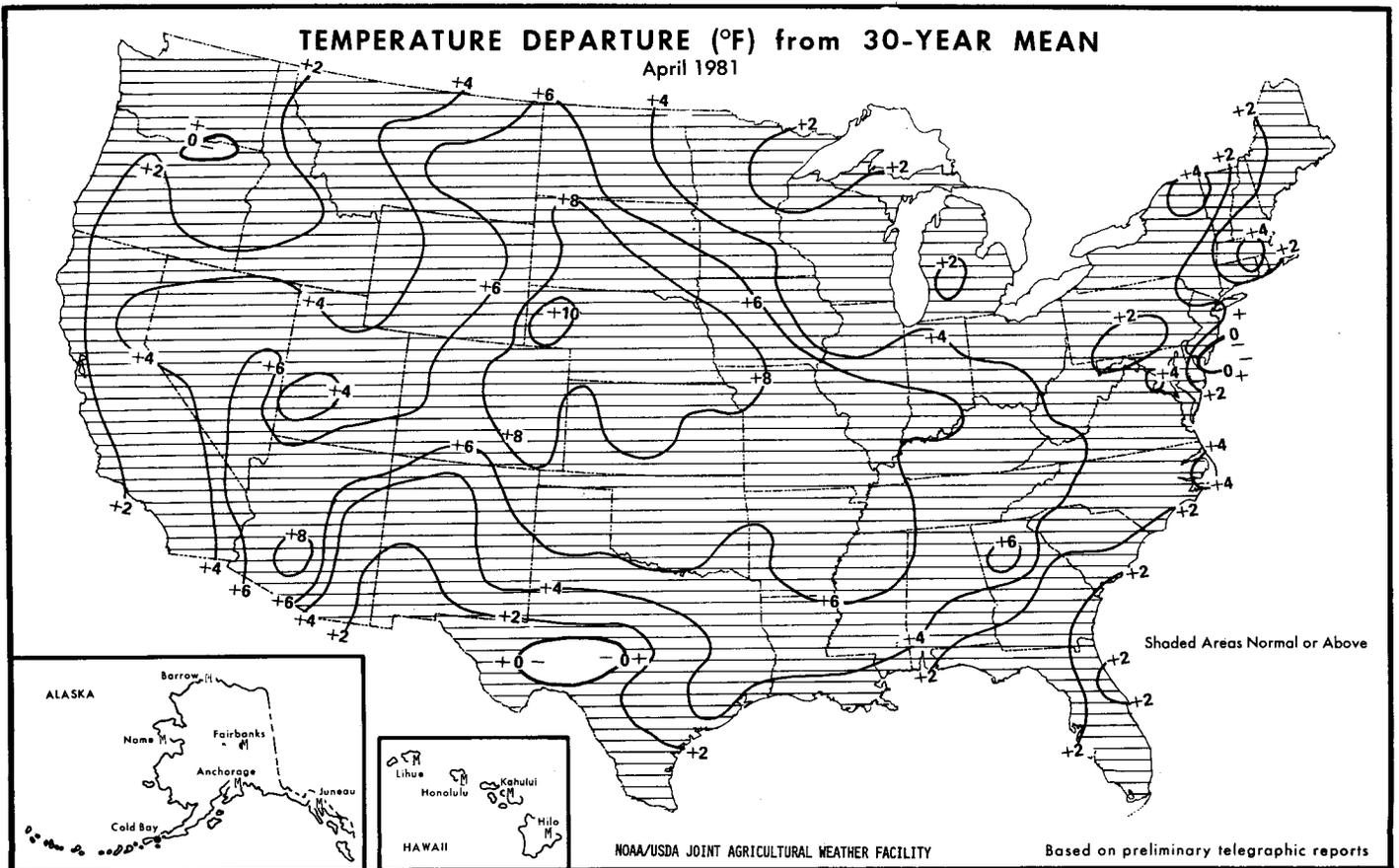
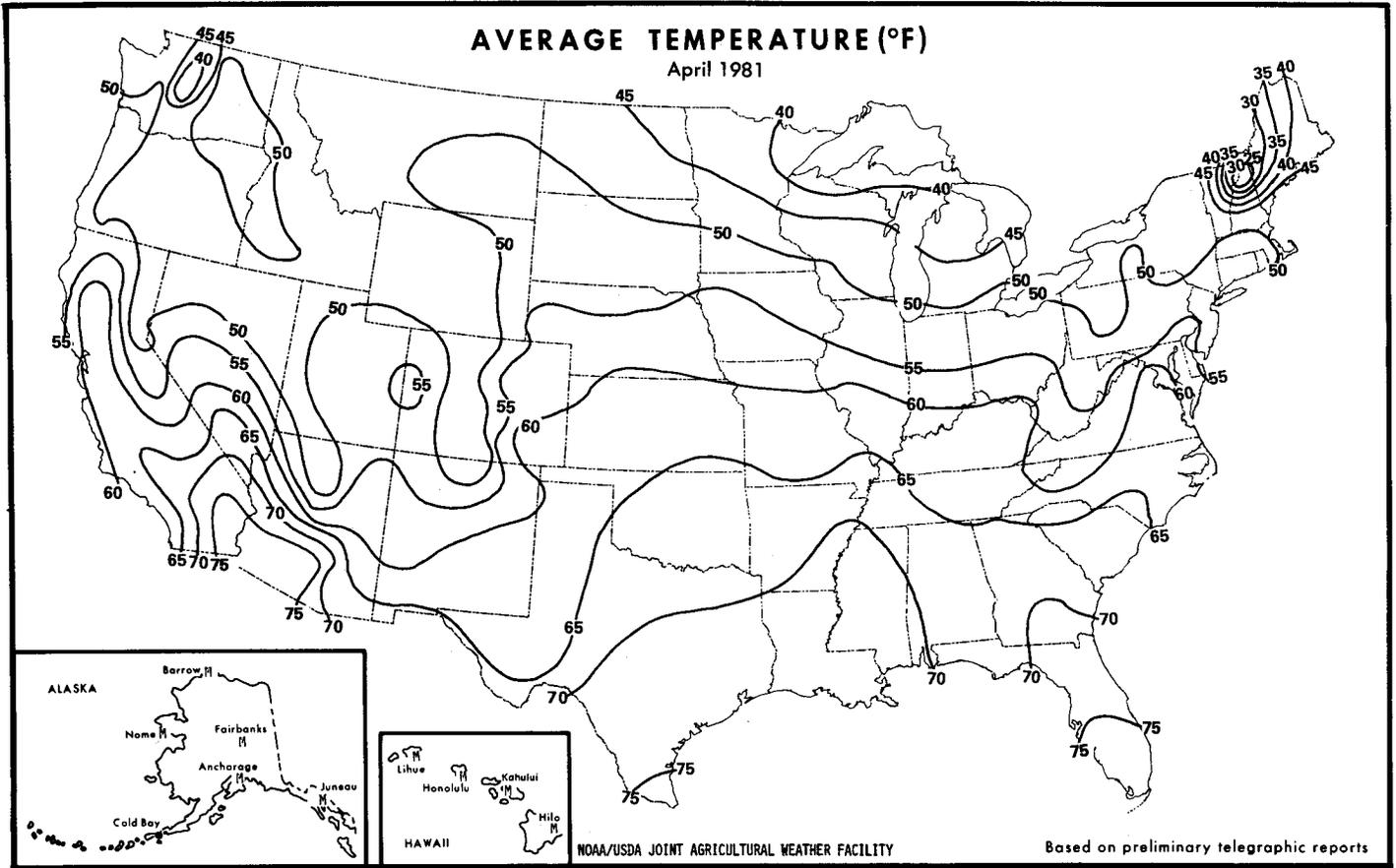
Soybean planting was just getting underway by the end of the month. Most major producing States held some acreage seeded by May 3, but most planting activity centered in the South.

Temperature and Precipitation Data for April 1981

States and Stations	Temperature OF		Precipitation Inches		States and Stations	Temperature OF		Precipitation Inches		States and Stations	Temperature OF		Precipitation Inches	
	Average	Departure	Total	Departure		Average	Departure	Total	Departure		Average	Departure	Total	Departure
AL BIRMINGHAM	67	4	2.5	- 2.1	LA BATON ROUGE	72	4	3.1	- 2.0	OK OKLAHOMA CITY	66	6	3.0	- .5
MOBILE	71	3	1.0	- 4.6	LAKE CHARLES	72	3	1.3	- 3.0	TULSA	68	7	1.9	- 2.3
MONTGOMERY	68	3	5.0	.5	NEW ORLEANS	71	2	2.3	- 1.9	OR ASTORIA	50	2	7.3	2.7
AK ANCHORAGE	---	---	---	---	SHREVEPORT	70	4	2.0	- 3.2	BURNS	45	1	.8	.1
BARROW	---	---	---	---	ME CARIBOU	40	3	2.2	- .2	MEDFORD	53	3	.6	- .4
FAIRBANKS	---	---	---	---	PORTLAND	45	2	3.5	.2	PENDLETON	50	1	1.2	- .2
JUNEAU	---	---	---	---	MD BALTIMORE	57	3	2.0	- 1.1	PORTLAND	53	2	1.8	- .4
KODIAK	---	---	---	---	MA BOSTON	52	3	3.1	- .4	SALEM	51	1	2.1	- .2
NOME	---	---	---	---	CHATHAM	47	0	3.6	.0	PA ALLENTOWN	47	2	3.4	- .4
AZ FLAGSTAFF	49	7	1.5	.2	MI ALPENA	44	4	3.4	1.0	ERIE	52	2	6.1	2.5
PHOENIX	76	8	.2	- .1	DETROIT	50	2	3.4	.2	HARRISBURG	54	1	2.8	- .2
TUCSON	69	3	.6	- .2	FLINT	48	2	4.3	1.4	PHILADELPHIA	55	2	3.6	.3
WINSLOW	57	3	.3	- .1	GRAND RAPIDS	47	0	6.1	2.7	PITTSBURGH	52	2	4.9	1.5
YUMA	75	4	T	- .1	HOUGHTON LAKE	44	2	3.9	1.5	SCRANTON	51	2	3.5	.1
AR FORT SMITH	67	5	2.9	- 1.8	LANSING	49	2	5.2	2.3	RI PROVIDENCE	51	4	4.1	.4
LITTLE ROCK	69	6	3.0	- 2.4	MARQUETTE	39	2	3.1	.2	SC CHARLESTON	67	2	1.9	- 1.1
CA BAKERSFIELD	65	2	.6	- .3	MUSKEGON	47	2	3.5	.3	COLUMBIA	67	3	1.9	- 1.6
EUREKA	51	1	.7	- 2.3	SAULT STE. MARIE	39	1	3.3	1.1	GREENVILLE	64	3	.9	- 3.4
FRESNO	63	3	1.0	- .2	MN DULUTH	39	0	4.5	1.9	SD ABERDEEN	50	6	.1	- 1.9
LOS ANGELES	61	2	.5	- .6	INT'L FALLS	41	3	1.5	- .2	HURON	53	7	.2	- 1.8
RED BLUFF	63	3	1.7	- .1	MINNEAPOLIS	49	4	2.2	.2	RAPID CITY	52	7	.3	- 1.8
SAN DIEGO	64	3	.2	- .6	ROCHESTER	48	3	2.5	.1	SIOUX FALLS	53	7	.6	- 1.7
SAN FRANCISCO	56	1	.2	- 1.4	SAINT CLOUD	46	3	3.3	1.0	TN CHATTANOOGA	65	5	3.8	- .6
STOCKTON	62	3	1.0	- .4	MS JACKSON	71	5	1.3	- 3.4	KNOXVILLE	64	4	4.8	- 1.2
CO DENVER	56	8	1.0	- .9	MERTDIAN	70	5	1.2	- 3.9	MEMPHIS	70	7	3.7	- 1.7
GRAND JUNCTION	57	5	.6	- .2	MO COLUMBIA	61	6	5.5	1.7	NASHVILLE	64	4	4.8	.7
PUEBLO	60	8	.1	- 1.2	KANSAS CITY	61	7	1.9	- 1.6	TX ABILENE	68	3	3.5	1.0
CT BRIDGEPORT	49	1	3.2	- .2	SAINT LOUIS	63	6	3.4	- .5	AMARILLO	63	6	.9	- .3
HARTFORD	52	4	2.9	- .9	SPRINGFIELD	63	6	3.1	- 1.2	AUSTIN	72	3	.8	- 2.7
DC WASHINGTON	62	6	2.6	- .3	MT BILLINGS	51	6	.4	- 1.2	BEAUMONT	73	4	3.2	- 1.0
FL APALACHICOLA	68	0	.2	- 3.4	GLASGOW	48	5	.2	- .5	BROWNSVILLE	77	2	.3	- 1.0
DAYTONA BEACH	71	1	.3	- 2.1	GREAT FALLS	47	4	.1	- 1.1	CORPUS CHRISTI	74	1	1.0	- 1.2
FORT MYERS	76	3	.1	- 1.9	HAVRE	46	3	.1	- .9	DEL RIO	72	0	7.5	5.9
JACKSONVILLE	70	2	.3	- 2.8	HELENA	46	3	.8	- .1	EL PASO	65	1	.7	.5
KEY WEST	79	1	.4	- 1.8	KALISPELL	45	3	.9	- .1	FORT WORTH	69	4	2.7	- 1.6
MIAMI	78	3	.1	- 3.5	MILES CITY	51	7	.2	- 1.1	GALVESTON	72	3	.3	- 2.3
ORLANDO	73	2	.2	- 2.5	MISSOULA	47	3	.7	- .3	HOUSTON	74	5	2.7	- .8
TALLAHASSEE	69	1	1.2	- 2.9	NE GRAND ISLAND	58	8	1.1	- 1.4	LUBBOCK	64	4	2.1	1.0
TAMPA	72	0	T	- 2.1	LINCOLN	59	8	1.9	- .6	MIDLAND	64	0	2.2	1.3
WEST PALM BEACH	76	2	.4	- 3.1	NORFOLK	58	9	.4	- 1.8	SAN ANGELO	66	1	3.5	1.8
GA ATLANTA	68	7	2.1	- 2.5	NORTH PLATTE	56	8	2.5	.6	SAN ANTONIO	73	3	2.2	- .3
AUGUSTA	65	1	2.3	- 1.1	OMAHA	58	8	1.7	- 1.1	VICTORIA	74	3	1.4	- 1.3
MACON	69	3	4.2	.6	VALENTINE	54	8	.5	- 1.3	WACO	70	3	2.7	- 1.3
SAVANNAH	69	3	1.8	- 1.1	NV ELY	47	6	1.1	.1	WICHITA FALLS	68	4	4.0	.8
HI HILO	---	---	---	---	LAS VEGAS	71	7	T	- .3	UT BLANDING	53	6	1.1	.2
HONOLULU	---	---	---	---	RENO	51	4	.2	- .3	SALT LAKE CITY	53	4	.5	- 1.6
KAHULUI	---	---	---	---	WINNEMUCCA	49	4	.2	- .5	VT BURLINGTON	47	4	3.1	.5
LIHUE	---	---	---	---	NH CONCORD	47	3	3.1	.2	VA LYNCHBURG	59	2	2.4	- .4
ID BOISE	50	1	1.9	.8	NJ ATLANTIC CITY	50	- 2	6.2	2.8	NORFOLK	61	3	2.3	- .3
LEWISTON	52	2	.9	- .2	TRENTON	55	3	3.9	.7	RICHMOND	61	3	3.0	.2
POCATELLO	48	3	1.3	.2	NM ALBUQUERQUE	59	3	.3	- .2	ROANOKE	59	3	1.8	- 1.0
IL CAIRO	67	7	3.3	- 1.1	ROSWELL	64	4	.8	- .3	WA COLVILLE	47	0	1.0	.0
CHICAGO	52	3	6.1	2.7	ALBANY	48	1	2.0	- .7	OMAK	51	2	.1	- .9
MOLINE	54	3	4.5	.7	BINGHAMTON	48	3	3.2	.0	QUILLAYUTE	47	1	12.7	4.5
PEORIA	55	4	5.7	1.3	BUFFALO	47	2	3.1	- .1	SEATTLE-TACOMA	50	1	1.6	- .9
ROCKFORD	51	3	5.2	1.3	NEW YORK	54	2	3.0	- .6	SPOKANE	46	0	.9	- .2
SPRINGFIELD	60	7	4.6	.5	ROCHESTER	48	2	2.0	- .7	WALLA-WALLA	54	1	1.4	.0
IN EVANSVILLE	62	5	2.5	- 1.6	SYRACUSE	50	3	2.0	- 1.1	YAKIMA	50	0	T	- .5
FORT WAYNE	52	3	5.3	1.7	ASHEVILLE	60	4	2.1	- 1.5	WV BECKLEY	56	4	3.4	.1
INDIANAPOLIS	57	5	5.8	1.9	CHARLOTTE	64	3	.7	- 2.7	CHARLESTON	59	3	4.0	.7
SOUTH BEND	53	5	5.3	1.3	GREENSBORO	62	3	1.1	- 2.1	HUNTINGTON	61	5	5.4	2.1
IA BURLINGTON	57	6	5.8	2.0	HATTERAS	63	4	1.8	- 1.3	PARKERSBURG	58	3	2.2	- 1.3
DES MOINES	58	8	2.0	- .9	RALEIGH	62	2	1.0	- 2.1	WI GREEN BAY	46	2	4.2	1.5
DUBUQUE	51	3	5.7	1.5	WILMINGTON	64	1	1.4	- 1.5	LA CROSSE	51	3	4.4	1.8
STIOUX CITY	57	8	.5	- 1.7	ND BISMARCK	47	4	.6	- .8	MADISON	49	4	3.4	.7
KS CONCORDIA	61	8	1.9	- .4	FARGO	46	4	.6	- 1.5	MTLAWKEE	47	2	4.9	2.1
DODGE CITY	61	7	.7	- 1.0	WILLISTON	49	7	.4	- .8	WY CASPER	48	5	1.6	.1
GOODLAND	56	7	3.9	2.5	OH AKRON-CANTON	52	3	6.5	3.2	CHEYENNE	50	7	.7	- .9
TOPEKA	61	6	2.0	- 1.6	CINCINNATI	58	4	5.1	1.5	LANDER	48	5	1.1	- 1.3
WICHITA	64	7	.4	- 2.6	CLEVELAND	51	3	4.6	1.1	SHERIDAN	48	4	.2	- 1.9
KY LEXINGTON	60	5	4.9	1.0	COLUMBUS	56	5	5.4	1.7	PR SAN JUAN	---	---	---	---
LOUISVILLE	62	6	4.4	.3	DAYTON	55	4	9.1	5.8					
					TOLEDO	50	2	3.5	.5					
					YOUNGSTOWN	51	3	4.8	1.1					

Based on 1941-70 normals



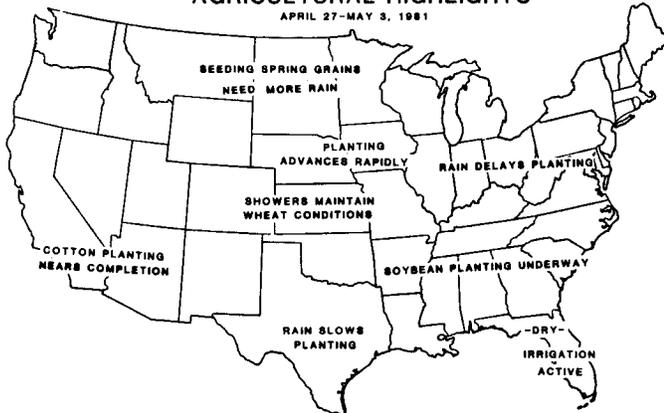


## National Agricultural Summary

April 27-May 3, 1981

### AGRICULTURAL HIGHLIGHTS

APRIL 27-MAY 3, 1981



**HIGHLIGHTS:** Wet weather continued to slow planting progress in the eastern Corn Belt. Farmers in these States had only 1 to 3 days suitable for fieldwork, while in other parts of the Nation up to 6 days were available. Soil moisture supplies were adequate to surplus in the east north central States, very short to short in the South Atlantic region, and short to adequate elsewhere. Winter wheat condition rated fair to mostly good. In the 15 major States, heading was 37% complete, compared to only 8% last year. Spring wheat seeding in the 5 major States was 77% complete, ahead of last year's 72% and the 49% average. Corn planting was slowed by rain in eastern areas of the Corn Belt, but made rapid progress in western areas. Planting reached 24% complete, 12 points behind last year and 2 points behind average. Cotton planting was 45% complete, 11 points ahead of last year. Grain sorghum planting reached into South Dakota. Rice seeding in the 5 major States was 68% complete, 6 points ahead of a year ago. Soybean planting was underway in most major producing States. Cattle were in fair to good condition.

**SMALL GRAINS:** Winter wheat rated fair to mostly good in all major producing areas. Heading was well underway in Kansas and just beginning in Nebraska. In the 15 major producing States, heading advanced to 37%, compared to only 8% last year. Development in Kansas progressed 2 weeks ahead of normal; heading was 45% complete, 35 points ahead of average. Early planted fields across the South were ripening. Fields in Arizona were maturing rapidly, and harvesting was expected to get underway soon. Pacific Northwest winter wheat rated good to excellent. In the northern Plains, wheat was in good condition but deteriorating due to drought stress.

Spring wheat seeding in the 5 major producing States was 77% complete, ahead of last year's 72% and the 49% average. Montana producers planted 30% of their acreage during the week and North Dakota growers planted 15%. Oats seeding continued ahead of normal in all areas.

**CORN:** Corn planting progressed slowly during the week in the eastern Corn Belt due to rain and wet fields, but made rapid progress in the western Corn Belt. Planting reached 24%

complete in the 17 major producing States, 12 points behind last year and 2 points behind average. Progress was behind normal in Illinois, Indiana, Iowa, Michigan, Minnesota, and Ohio. Colorado growers planted 30% of their corn acreage during the week; Kansas farmers, 25%; Iowa farmers, 23%; Kentucky growers, 21%; and Minnesota and Missouri producers, 20%. Emerging plants in early planted fields were in fair to good condition.

**COTTON:** Cotton planting in the 14 major producing States reached 45% complete, 11 points ahead of last year. Excluding California, planting stood at 39%, ahead of last year's 27% and the 30% average. Arkansas growers planted 48% of their acreage during the week; Tennessee growers, 39%; Missouri growers, 36%; and North Carolina producers, 35%. Earliest plantings in Arizona were growing well and squaring was underway in some fields. Some replanting was underway in California due to recent heavy rains.

**OTHER CROPS:** Grain sorghum planting was getting underway as far north as South Dakota, although most activity centered in southern areas.

Rice seeding in the 5 major producing States was 68% complete, 6 points ahead of a year ago. Planting ranged from 20% complete in California to 93% in Texas.

Peanut planting was 60% finished in Mississippi, 56% in Georgia, 33% in Alabama, 21% in North Carolina, and 13% in Virginia. Progress was slower than average.

Tobacco transplanting was completed in Georgia, 98% finished in South Carolina, 92% in West Virginia, and 67% in North Carolina. Plants remained in fair to good condition.

Soybean planting was underway in most major producing States, but only minor acreages have been planted thus far.

**FRUITS AND NUTS:** Early blossoming fruit trees suffered some damage due to frost. Apples and strawberries bloomed in New Jersey. Peaches were in fair to good condition with heavy sets reported. Growers were thinning trees in southern areas. Florida citrus grove condition was being maintained with irrigation; non-irrigated trees were showing stress. The Valencia orange harvest was in full swing. Arizona's citrus harvest made very good progress. In California, harvesting of avocados, oranges, lemons, and peaches continued active.

**VEGETABLES:** Dry conditions persisted in Florida's vegetable growing areas. Irrigation continued very active to help offset the dry weather. Total shipments increased 28% from the previous week. The only vegetables showing declines were carrots, cauliflower, celery, parsley, radishes, squash, and strawberries. The watermelon crop continued in fair to good condition; volume increased rapidly.

**PASTURES AND LIVESTOCK:** Pastures rated fair to good, except in parts of the Southwest and the northern Plains where dry conditions limited growth. Ranchers continued to turn herds onto rangelands. Calving and lambing neared completion. Livestock were in fair to good condition.

CROP PROGRESS  
FOR WEEK ENDING MAY 3, 1981

	WINTER WHEAT & HEADED		
	1981	1980	AVG.
CALF	87	90	NA
COLO	0	0	0
IDA	0	0	0
ILL	35	0	11
IND	15	0	15
KANS	45	0	10
MO	51	1	18
MONT	0	0	0
NEBR	1	0	0
OHIO	0	0	0
OKLA	80	15	50
OREG	0	0	0
S DAK	0	0	0
TEX	56	27	NA
WASH	0	0	0
15 STATES	37	8	NA
EXCL. STATES WITH NA	32	3	14

THESE 15 STATES PRODUCED 88%  
OF THE 1980 WINTER WHEAT CROP.

NA = NOT AVAILABLE

CROP PROGRESS  
FOR WEEK ENDING MAY 3, 1981

	SPRING WHEAT & PLANTED		
	1981	1980	AVG.
IDA	95	87	68
MINN	92	85	58
MONT	70	70	50
N D	63	58	35
S DAK	99	94	69
5 STATES	77	72	49

THESE 5 STATES PRODUCED 92%  
OF THE 1980 SPRING WHEAT CROP.

CROP PROGRESS  
FOR WEEK ENDING MAY 3, 1981

	COTTON & PLANTED		
	1981	1980	AVG.
ALA	82	54	64
ARIZ	85	79	81
ARK	65	28	31
CALF	94	97	NA
GA	77	57	79
LA	70	12	34
MISS	80	33	42
MO	42	29	28
N MEX	45	55	59
N C	73	53	51
OKLA	5	0	5
S C	91	81	78
TENN	60	37	31
TEX	23	21	22
14 STATES	45	34	NA
EXCL. STATES WITH NA	39	27	30

THESE 14 STATES PRODUCED 99%  
OF THE 1980 COTTON CROP.

NA = NOT AVAILABLE

CROP PROGRESS  
FOR WEEK ENDING MAY 3, 1981

	RICE & PLANTED		
	1981	1980	AVG.
ARK	47	46	60
CALF	20	55	NA
LA	81	71	50
MISS	90	56	65
TEX	93	95	93
5 STATES	68	62	NA
EXCL. STATES WITH NA	78	63	72

THESE 5 STATES PRODUCED 98%  
OF THE 1980 RICE CROP.

NA = NOT AVAILABLE

CROP PROGRESS  
FOR WEEK ENDING MAY 3, 1981

	CORN & PLANTED		
	1981	1980	AVG.
COLO	43	3	18
GA	97	89	93
ILL	18	45	34
IND	7	25	20
IOWA	28	53	30
KANS	45	30	20
KY	47	38	39
MICH	6	7	11
MINN	22	37	23
MO	43	46	33
NEBR	20	30	15
N C	91	80	83
OHIO	10	20	25
PA	15	8	12
S DAK	10	11	4
VA	59	38	48
WIS	7	7	5
17 STATES	24	36	26

THESE 17 STATES PRODUCED 93%  
OF THE 1980 CORN 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 ESS State Offices in cooperation with the National Weather Service.

ALABAMA: Temperatures 1° below normal. Rain-fall scattered, mostly north.

Soil moisture short. Fieldwork: 5.0 days suitable. Activities: Applying fertilizer and pesticides, planting, cultivation, care of livestock and poultry. Planting progress: Corn 90%, 72% 1980, 69% average; cotton 82%, 54% 1980, 64% average; peanuts 33%, 38% 1980, 47% average; sorghum 26%, 8% 1980. Wheat head-

ed 88%, 72% 1980, 79% average; wheat turning color 20%, 7% 1980. Soybeans planted 7%, 4% 1980. Condition: Wheat, corn, pasture, and livestock fair to good.

ARIZONA: Limited showers, thundershowers, dust storms most week. Precipitation mostly eastern two-thirds. Amounts mostly 0.10 to 0.50 in. Temperatures averaged mostly 3 to 12° above normal.

Cotton planting full swing, approximately 85% planted, earliest plantings growing very well, squaring underway some fields. Small grains faster than normal progress, harvest volume next two weeks. Alfalfa haying full volume, ahead of normal. Sugarbeets good growth, yield prospects excellent. Safflower growing very well. Corn, sorghum planting active, seasonal progress, earliest planting good stand. Lettuce, mixed vegetable harvest good progress, unusually warm weather accelerated growth, maturity. Cantaloups, watermelons very good progress, fruit sizing rapidly, indications early harvest. Potato harvest good progress, good yields reported. Dry onion harvest underway week's end. Citrus harvest very good progress. Grapes sizing well. Poor to fair ranges. Feed sparse in desert areas and mid-elevations. High elevations adequate feed. Cattle fair, sheep excellent.

ARKANSAS: Temperatures slightly above normal. Highest temperature 90°, lowest 33°. All departures from normal 0 to +4°. Most rainfall 1.59 in., least zero.

Soybeans planted 7%, 5% 1980, 5% average. Rice planted 67%, 46% 1980, 60% average. Cotton planted 65%, 28% 1980, 31% average. Corn planted 69%, 58% 1980, 66% average. Sorghum planted 66%, 42% 1980, 47% average. Wheat headed and beginning to fill. Soil moisture supplies short. Six days suitable for fieldwork. Forage cover on pastures average. Livestock good condition.

CALIFORNIA: A little rain at the beginning of the week, otherwise dry. Largest totals over northern mountains but sprinkles south over the Sierra to Yosemite. Warmer than normal average temperatures again, mostly 5 to 10° above, by end of the week. Record or near record maxima in portions of the San Joaquin Valley. Most divisions reported highs near to or a little above the century mark.

First cutting alfalfa complete. Control measures being applied field mice and aphids. Corn planting increasing. Wheat 87% headed, 8% turning color compared to 90%, 10% last year. Oats, barley slightly behind wheat in maturity. Sugarbeets being cultivated. Overwintered beets being harvested. Rice 20% planted, last year 55%. Cotton 94% planted, last year 90%. Small acreage being replanted due to recent rains. Harvest of Burlat cherries beginning. Harvest of Haas avocados, oranges, lemons, Desert Gold freestone peaches continued. Olives blooming San Joaquin Valley. Artichokes decreasing Salinas-Watsonville. Asparagus slowing Delta. Broccoli heavy, Central Coast. Brussels sprouts harvest continues Central Coast. Boysenberries set fruit. Cantaloup up San Joaquin Valley, harvest begin next week Desert. Carrots harvest active Desert. Cauliflower heavy Central Coast. Sweet corn harvest began Coachella, light. Garlic reaching maturity Fresno. Lettuce ending San Joaquin Valley, increasing Central Coast. Onions active Imperial, Fresno light. Bell pepper harvest underway Coachella Valley, doing well San Joaquin Valley. Spring potatoes increase Kern, Tulalake to plant fall crop soon. Strawberry picking increased on South Coast. Tomatoes growing well; fresh market Desert to begin next week. Warm weather rapidly maturing range feed. Movement lambs to market continues active. Shearing nearly complete.

COLORADO: Mostly dry and warm with temperatures averaging nearly 10° above normal. Weekend showers and thunderstorms dropped 1.00 to 2.00 in. of rain across portions of east central, northeast, and mountains. Higher mountain areas received 3.00 to 5.00 in. of new snow.

Winter wheat jointed 47%, 30% 1980. Corn seeded 43%, 3% 1980, 18% average; emerged 8%, 0% 1980, 2% average. Barley seeded 89%, 66% 1980, 74% average; emerged 69%, 21% 1980, 45% average. Spring wheat seeded 72%, 56% 1980. Sugarbeets seeded 91%, 47% 1980, 65% average. Oats seeded 89%, 45% 1980, 59% average. Onions seeded 90%, 65% 1980. Summer potatoes seeded 38%, 53% 1980, 54% average; emerged 17%, 2% 1980, 6% average. Fall potatoes seeded 15%, 10% 1980, 3% average. Six days suitable for fieldwork. Livestock good condition.

FLORIDA: Some isolated showers fell but overall, the dry spell continued. Persistent high pressure pattern over the Gulf continued to block return of moisture. Large sections, especially central, south have had no significant rains since the third week of March. Many areas had no measurable rain during April. Many rivers and water table levels at or near all-time record lows. Some 0.50 in. rains fell around the Panhandle and Big Ben areas at midweek. A few isolated showers fell elsewhere around the State, and 0.50 to 1.00 in. rains fell near the Lower East Coast at start of weekend. Temperatures were mild, near to 4° above seasonal norms. Very dry air pushed downstate during weekend. Morning of the 3rd was cool with lows ranging from the mid 40's to near 50° north, mostly 50° central, and lows to mid 60's, south.

Soil moisture short to very short. Light rain showers in a few scattered areas helpful but not sufficient to relieve dry conditions. Irrigated corn, tobacco good condition, unirrigated poor to fair. Peanut planting in west delayed by dry soils. Soybean planting beginning but most growers waiting for rain. Cotton planting continues in Panhandle. Small grains about ready for combining. Sugarcane good condition. Pastures poor to fair north, very poor central and south. Cattle fair condition. Citrus growers continue to depend on irrigation. All areas dry. Lakes, ponds, streams running low. Valencia orange harvest full swing. Grapefruit movement slowing. Dry conditions persisted in vegetable areas except for scattered showers near Lower East Coast. Warm days, mild nights continued. Temperatures were near to 4° above normal. Irrigation continues very active all areas. Total shipments up 28% from previous week. Harvest gained snap beans, chinese cabbage, sweet corn, cucumbers, okra, peppers, potatoes, tomatoes and watermelons. Supplies about steady cabbage, eggplant, escarole and lettuce. Volume declined carrots, cauliflower, celery, parsley, radishes, squash and strawberries. Hot, dry conditions slowing strawberry harvest in north. Watermelon crop condition continues fair to good but irrigation heavy where available. Volume increasing rapidly.

GEORGIA: Light rainfall northwest half 29th. Amounts averaged 0.10 to 0.25 in., up to 0.80 in. locally. Spotty amounts averaged less than 0.10 in. extreme southeast 1st. Temperatures near normal except 4 to 5° above northern third. Warmest spot Dublin 92° on 28th. Coolest Clayton at 35° on 26th.

Soil moisture very short to mostly short. Six days suitable for field activities. Corn 97% planted, last year 89%, average 93%; condition fair to good. Tobacco 100% transplanted, last year 97%, average 99%; condition fair to good. Peanuts 56% planted, last year 46%, average 70%; condition mostly fair to good. Watermelons 93% seeded, last year 87%, average 92%; condition fair to good. Soybeans 11% planted, last year 6%, average 12%; condition mostly fair to good. Cotton 77% planted, last year 57%, average 79%; condition fair to good.

Sorghum 27% seeded, last year 15%. Small grains fair to good, dry weather stress many areas. Peaches and apples condition fair to mostly good with peach spraying and thinning active. Vegetables mostly fair to good. Livestock fair to mostly good. Pastures fair to good.

**HAWAII:** Heavy showers passed through Hawaiian chain. Beneficial to most agricultural sectors. However, wet conditions interrupted farm operations some Islands. Pineapple, sugar harvest curtailed Island of Maui. More rains needed in the Kohala section Island of Hawaii. Spraying frequent to control disease and insect infestations. Vegetables: Supplies up most crops. Bananas: Rains beneficial. Production light. Papayas: Rains beneficial. Harvest generally steady this week, but increase expected this month. Pineapples: Harvesting steady. Sugar: Wet fields slowed operation some plantations. Pastures: Rains were welcome some areas.

**IDAHO:** Temperatures averaged above normal. Precipitation moderate. Thundershowers on 1st most areas. Wind gusts up to 50 MPH. Spring wheat planted 85%, 87% 1980, 68% average. Spring barley planted 76%, 82% 1980, 64% average. Sugarbeets planted 98%, 98% 1980, 90% average. Potatoes planted 27%, 35% 1980, 35% average. Dry peas planted 66%, 98% 1980, 64% average. Lentils planted 72%, 98% 1980, 74% average. Fruit in full bloom. Corn planting just underway. Emergence levels good, mostly behind last year. Cattle and sheep moving to summer range. Feed supplies adequate. Six days suitable.

**ILLINOIS:** Temperatures 1 to 14° above normal. Precipitation heavy north, up to 2.00 in. northeast; light to none south.

Corn planting 18% complete, 45% 1980, 34% average. Soybean planting 3% complete, 7% 1980, 3% average. Winter wheat condition 29% excellent, 69% good, 2% fair; 35% headed, none 1980, 11% average. Alfalfa condition 25% excellent, 70% good, 5% fair. Pastures 25% excellent, 65% good, 10% fair; supplying 75% roughage requirements livestock, 73% 1980, 68% average. Soil moisture 15% short, 65% adequate, 20% surplus. Fieldwork: 3.5 days suitable.

**INDIANA:** Showery week. Some high winds and soil erosion. Temperatures near normal, from 31 to 88°. Rainfall heavy in central and north, 1.40 in., in south, 0.60 in. Soil temperatures in high 50's and above normal.

Fieldwork averaged 2.0 days. Topsoil moisture adequate to mostly surplus. Subsoil moisture adequate. Spring cropland 94% plowed, 1980 80%, average 80%. Corn 7% planted, 1980 25%, average 20%. Wheat good condition. Wheat 15 in. high, 1980 9 in., average 10 in. Wheat 70% jointed, 1980 20%, average 30%. Wheat 15% headed, 1980 0%, average 15%. Oats 5 in. high, 1980 2 in., average 3 in. Pastures good.

**IOWA:** Warm temperatures averaging 3° above normal northeast and east central to 8° above normal all western districts. Showers fell midweek over most of the northeast quarter with lighter showers scattered southward. Moderate-to-heavy showers fell 3rd and early 4th in northwest and west central districts. Scattered light showers in southeast and north central.

Topsoil moisture: 38% short, 43% adequate, 19% surplus. Subsoil moisture: 43% short, 49% adequate, 8% surplus. Corn acreage planted: 28% complete, 1980 53%, normal 30%. Fieldwork: 5.1 days suitable. Crop conditions: Pasture, winter wheat, alfalfa hay, clover hay, oats, all mostly good. Livestock in good to excellent condition.

**KANSAS:** Spotty precipitation, 0.25 in. or less during week, heavy rains over portions west and north central 3rd. Temperatures averaged 54° northwest, 57 to 62° elsewhere, or 11° above normal west, 6 to 9° above normal elsewhere.

Wheat 2 weeks ahead normal development; 96% jointed and 45% headed, last year 55% jointed, none headed, average 70% and 10%. Greenbug threat controlled by spraying and predators. Wheat condition fair to good, down from last week. Corn planted 40%, last year 30%, average 20%. Alfalfa weevil serious problem. Fifty percent counties indicate subsoil moisture short summer fallow ground. Pasture and range condition fair but growth short, many stock ponds nearly dry. Six days suitable for fieldwork.

**KENTUCKY:** Temperatures averaged 2 to 4° above normal, warmest readings first of week. Precipitation averaged 0.50 in. from showers 24th and 25th.

Soil moisture mostly adequate. Farmwork and growing crops ahead of normal progress. Corn 47% planted, last year 38%, average 39%. Early corn looks good. Soybean planting beginning in west. Tobacco plants excellent condition and several weeks ahead of last year. First setting of tobacco expected this week. Plant size 12% larger than 4 in.; 35% 2 to 4 in.; and 53% less than 2 in. Angular leaf spot evident in number of tobacco beds. No blue mold confirmed. Wheat 66% heading, less than 10% at this date last year. Wheat prospects good to excellent and early season should be favorable for double cropping. Pastures excellent. Fruit prospects good to excellent with early strawberries beginning to ripen.

**LOUISIANA:** Rain variable. Greatest total 2.09 in. Soil moisture supplies short. Temperatures 1 to 3° above normal. Extremes: 46 and 92°.

Fieldwork: 5.4 days suitable. Spring plowing 96% complete, 73% 1980. Corn condition fair to good; planted 90%, 72% 1980, 84% average; emerged 86%, 63% 1980. Rice condition fair to good; planted 81%, 71% 1980, 80% average; emerged 73%, 62% 1980. Cotton planting 70% complete, 12% 1980, 34% average. Soybean planting 6%, 6% 1980, 4% average. Sweetpotatoes 43% transplanted, 14% 1980. Vegetables fair condition. About 71% of wheat acreage turning color, harvest expected early. Sugarcane condition fair to good. Livestock and pastures fair to good.

**MARYLAND AND DELAWARE:** Temperatures near normal. Highs in low 70's, lows in upper 40's. Precipitation varied from 1.75 to 0.25 in.

Topsoil moisture adequate. Subsoil moisture short to adequate. Days suitable for fieldwork: 3.0 for Maryland and 5.5 for Delaware. Plowing 90% complete. Corn planting 80% complete. Small grains good to excellent with heading beginning for all but wheat. Tobacco growers beginning field planting. Potatoes all planted. Fruit in full bloom, petals dropping.

**MICHIGAN:** Temperatures were 0 to 2° above normal in south central Lower Michigan. Elsewhere they ranged 0 to 2° below normal. Moderate to heavy precipitation fell from thunderstorms.

Planting progress slowed by rain and cooler temperatures. Only 2 days suitable for fieldwork. Soil moisture supplies: surplus in Upper Peninsula and Lower third of State; adequate to surplus elsewhere. Corn 6% planted, 7% last year, 11% normal. Oats 75% planted, 37% last year, 54% normal. Potatoes 40% planted, 14% last year, 21% normal. Sugarbeets 80% planted, 20% last year, 60% normal. More than average amount of sugarbeets being replanted.

**MINNESOTA:** Temperatures averaged from slightly above normal to 5° above normal over much of the State, and up to 7° above normal in the north-

west. Temperatures averaged somewhat warmer in the central and southwestern parts, with extremes of 90° in Pipestone and 24° in Faribault. Precipitation averaged near normal in most localities except for the southeastern quarter and locally in the northcentral where 0.50 to 1.00 in. above normal was recorded. Extremes reported of 0.13 Hallock and 3.10 in Winnebago.

Northwest received much needed rain. Moisture still short but enough rain to germinate crops and get off to good start. Southwest has become short of moisture. Only light rains as strong winds dry out soils. Eastern half receiving rain nearly every day. Moisture becoming surplus and limiting progress planting crops. Topsoil moisture rated 6% very short, 24% short, 55% adequate, and 15% surplus. Planted: Spring wheat 92%, 1980 85%, normal 58%; oats 86%, 1980 87%, normal 61%; barley 79%, 1980 78%, normal 48%; flax 21%, 1980 21%, normal 19%; field corn 22%, 1980 37%, normal 23%; soybeans 2%, 1980 3%, normal 2%; sugarbeets 89%, 1980 83%, normal 53%; potatoes 27%, 1980 20%; normal 13%; sunflowers 9%, 1980 11%, normal 8%; green peas for processing 54%, 1980 43%, normal 44%; sweet corn for processing 9%, 1980 12%, normal 7%. Emerged: Spring wheat 55%, 1980 29%, normal 28%; oats 57%, 1980 28%, normal 31%; barley 40%, 1980 22%, normal 20%; flax 8%, 1980 1%, normal 7%.

MISSISSIPPI: Temperatures slightly above normal. Extremes: 38 and 94°. Several cold fronts entered State with little effect on temperatures and only light rain.

Soil moisture short to very short except north central area with short to adequate. Fieldwork: 6.0 days suitable. Cotton 80% planted, 33% 1980, 42% average; 47% up to stand. Rice 90% planted, 56% 1980, 65% average; 47% up to stand. Corn 90% planted, 59% 1980, 70% average; 70% up to stand. Soybeans 5% planted, 2% last year, 5% average. Sorghum 25% planted, 3% last year, 9% average. Peanuts 60% planted, 30% 1980. Wheat 98% headed, 6% ripe; condition good. Pasture condition good to fair.

MISSOURI: Temperatures remained above normal and precipitation was light, especially in northern half.

Fieldwork: 4.8 days suitable. Corn 43% planted, last year 46%. Grain sorghum 14% planted, last year 11%. Soybeans 7% planted, last year 5%. Cotton 42% planted, last year 29%. Wheat 51% headed, last year 1%. Condition of winter wheat fair to good. Condition of pasture fair to good. Topsoil moisture supplies short to adequate.

MONTANA: Rain fell over much of State during week. Some areas of west, southwest and central divisions received heavy amounts. Over very dry northeastern and southeastern divisions rainfall amounts ranged from 0.10 to 0.66 in. Some parts of northcentral and central experienced fourth consecutive week of no rain. Temperatures were again above normal. Statewide, temperatures averaged from 6 to 9° above normal. The warmest temperatures of the season were recorded late in the week. Highest 90° at Broadus, lowest 24° at Polebridge.

Topsoil and subsoil short eastern third, adequate northwest, short to adequate elsewhere. Fieldwork: 6.0 days suitable. Winter wheat condition generally fair to good. Winterkill light. Current percent spring crops planted compared with last year and average: Spring wheat 70, 70, 50; barley 65, 65, 50; oats 55, 55, 45; sugarbeets 90, 85, 75; corn 30, 50, 30; potatoes 15, 30, 20; dry beans 10, 30, 20. Calving 90, lambing 85, shearing 80% complete. Cattle and sheep in good condition; 15% on summer ranges.

NEBRASKA: Precipitation light accumulations through 1st. Widespread rainfall 3rd with most amounts ranging from 0.50 to 2.00 in. in the eastern third. Temperatures 7 to 11° above normal.

Corn planting 20%, 30% last year and 15% normal. Chinch bugs and corn flea beetles active in the southeast. Wheat mostly fair to good; jointing 60%, 10% last year and 15% normal; heading 1%, 0% last year, 0% normal. Effects of chinch bugs and drought vary, but some damage reported in most eastern counties. Sorghum planting 1%, 2% last year, 0% normal. Alfalfa mostly fair to good. Pasture and range feed mostly short to adequate. Some herds being moved to pastures. Topsoil moisture mostly short to adequate. Subsoil moisture short. Days suitable 6.5.

NEVADA: Highly variable weather. Week began and ended with cold fronts tracking across State producing gusty winds and scattered showers north. Middle of week had record breaking temperatures all areas. Temperatures averaged 7 to 14° above normal.

Inclement weather slowed seedbed preparation and seeding operations. Low night temperatures not favorable plant growth. Good progress calving and lambing.

NEW ENGLAND: Alternating periods of rain and sunshine. High temperatures ranged from the 40's to 70's with lows from the 30's to 50's. Precipitation on the 29th, 30th and 2nd averaged about 0.25 in. with greater amounts south. Fieldwork: 0 days extreme north, 5 days elsewhere. Early blossoming fruit trees suffered some frost damage. Vegetable planting started. Some early peas, sweet corn, onions, radishes and beets planted. Little significant winterkill to cranberry bogs. Potato planting continues in southern New England. Farmers busy spreading manure and preparing seed beds. Alfalfa appears to have wintered well. Soil moisture is rated adequate to short across the region. Grazing conditions reported as short.

NEW JERSEY: Temperatures averaged near normal. Extremes: 32° at Newton on 4th and 86° at Cape May Court House on 29th. Rainfall averaged 1.01 in. north, 0.71 in. central and 1.72 in. south. Soil moisture, in percent of field capacity, averaged: 90 north, 90 central and 95 south. Four inch soil temperature averaged: 53 north, 57 central and 57 south. Total sunshine at Trenton from 27th thru 3rd was 44% of possible hours.

Showers maintaining soil moisture at an adequate level. Cool weather continues to slow crop development. Asparagus and greens remain in light supply. Spinach movement good. Apples and strawberries in bloom. Field corn planting becoming general. Pasture and hay fields look good.

NEW MEXICO: Temperatures averaged 3 to 10° warmer than normal. Scattered showers throughout the week.

Farming activities were at a standstill through most of the week due to rainfall. Soil moisture in short to adequate supply. Planting operations continued when and where moisture conditions permitted. Planting of cotton slowed due to rainfall. Some crusting of soil may occur in the southern areas due to heavy rains. Early planted fields continue to emerge. Alfalfa hay in good condition but some fields weedy. Some early cut hay rained on. Corn planting nearing completion in Curry and Roosevelt Counties. Sorghum planting expected to get underway soon. Irrigated wheat and barley in good condition and heading

out well in the south. Some hail damage occurred on the eastside. Heavy dryland wheat losses due to lack of early moisture. Lettuce and onions in good condition. Chile progressing well in the south. Peanut planting underway in the Portales areas. Ranges in poor to fair condition; however, recent showers should improve conditions. Livestock in fair to good condition.

NEW YORK: Rainfall light in most areas, temperatures near normal.

Corn planting less than 5% complete, same 1980, 7% average. Oat planting 52% complete, 25% 1980, 47% average. Potato planting beginning Upstate, 90% complete on Long Island. Orange County celery and onion planting progressing. Ontario County orchards showing winter bud damage. Tart cherries at full bloom around Lake Ontario. Apple buds in half-inch green to pink stage in all areas.

NORTH CAROLINA: Temperatures near normal to 4° above normal in the southeast. Precipitation below normal.

Fieldwork: 6.1 days suitable. Soil moisture: 39% very short, 50% short, 11% adequate. Conditions: Wheat, oats, barley, and rye mostly fair to good; pasture mostly fair; tobacco plant beds fair to mostly good; Irish potatoes fair to good; peaches mostly fair to good; truck crops mostly fair; tobacco plant supply adequate. Supplies: Feed grains mostly adequate; fuel supplies mostly adequate. Plantings: Corn 91%, 1980 80%, 83% average; cotton 73%, 1980 53%, 51% average; peanuts 21%, 1980 22%, 20% average; soybeans 7%, 1980 5%, 10% average; flue-cured tobacco 67%, 1980 34%, 41% average. Major activities: Planting corn, transplanting tobacco, and land preparation.

NORTH DAKOTA: Temperatures averaged 4 to 7° above normal. Averages from 51° north central to 55° southwest and southeast. Extremes: 83° southeast and 20° north central. Precipitation averaged 0.45 in. above normal to 0.08 in. below normal. Averages from 0.83 in. north central to 0.37 in. south central. Precipitation since April 1 varied from 0.40 in. below normal north central and northeast to 1.02 in. below normal east central.

Rain showers over most of the state brought needed moisture. More still needed especially southwest. Overall 61% of state short to topsoil moisture. Fieldwork delayed some areas early in week. Picked up by week's end. Average of 5.3 days suitable for fieldwork. Early seeded small grain emerged in generally good condition. Soil erosion less of a problem. Seeding of small grains near last year's early pace and well ahead of normal. Sizable acreage already emerged. Row crop planting getting underway, about the normal starting date. Percents seeded with last year and average: hard red spring wheat 63, 58, 35; durum 42, 46, 24; barley 52, 49, 31; oats 61, 53, 29; flax 9, 14, 8; potatoes 11, 22, 10; soybeans 3, 0, 2; corn 6, 6, 2; sunflower 2, 3, 2; dry beans less than one-half, 0, 2.

OHIO: Precipitation below normal. Rain reported around the middle of the week and again towards the end of the week. The weekend was rain-free with good drying conditions. Average high temperatures were in the low 60's in the north and in the upper 60's in the south. Average lows were in the upper 30's and lower 40's. Lows fell to around freezing at a few locations. Highest readings were in the mid-80's. Cumulative growing degree days since April 1 still above normal. Cumulative GDD's range from less than 200 in the northeast to nearly 400 in some southern sections.

Winter wheat rated good. No water damage reported. There has been water damage to the oats

crop with northeast and east central districts. Serious alfalfa weevil damage reported in fields in the south central district. Corn planting behind normal: soybeans planting began in the southern half last week. Corn planted 10%, 20% 1980, 25% average. Potatoes planted 25%, 35% 1980, 45% average. Oats planted 85%, 80% 1980, 85% average. Sugarbeets planted 80%, 65% 1980, 70% average. Soybeans planted 2%, 2% 1980, 4% average. Wheat jointed 30%, 10% 1980. Oats emerged 70%, 15% 1980. Days favorable: 1.5. Pasture condition very good. Soil moisture 27% adequate, 73% surplus.

OKLAHOMA: Warm and humid with many western areas receiving good rains late in the week. Most rains occurred during the late afternoon or nighttime hours. Temperatures averaged from 2° above normal in the southeast to 7° above normal in the northwest.

Wheat and other small grains continue develop well ahead normal. Recent rains beneficial but more needed. Wheat jointing: 100%, 1981; 85%, 1980; 100% average. Wheat heading: 80%, 1981, 15%, 1980; 50%, average. Sorghum planted: 15%, 1981; 5%, 1980; 10% average. Cotton planted: 5%, 1981; 0%, 1980; 5%, average. Days suitable for fieldwork: 5.8.

OREGON: Temperatures to record highs. Nighttime lows from high 20's to low 50's, mean temperatures only 2 to 6° above normal. Rainfall measured 0.40 in. along coast; 0.50 in. High Plateau area; 0.30 in. in north eastern, Willamette Valley, southwestern valleys and southcentral sections.

Soil moisture supplies mostly adequate; short in Jackson County. Winter wheat good to excellent; 34% booted. Some disease in small grains and grass seed fields. Flaming mint continues; spraying for cutworms underway. Dry bean planting started. Hay and alfalfa making good growth. Irrigation in use. Some blossom thinning of apples. Pears in full bloom at higher elevations. Cherry set appears good. Peach and prune sets erratic; some good, some light. Strawberries in bloom. Sprays continue to go on orchards and berry fields. Filbert nut clusters beginning to show. Norgold potatoes being planted in Klamath Falls area. Some eastern onions replanted due to crust and rain; western onions mostly planted. Asparagus harvest in full swing. Livestock condition good. Range and pasture mostly good. Eastern ranges making good growth. Coastal pastures excellent.

PENNSYLVANIA: Sunny and mild 27th, partly cloudy with showers 28th through 1st, clearing 2nd but cool through end of period. Temperatures averaged near normal and about 8° warmer than previous week. Daily highs mostly 50's to 70's and lows 30's and 40's. Extremes 81° and 22° with widespread freezing 3rd. Rainfall totals from 0.30 in. or less southcentral mountains to 1.50 in. west and up to 2.50 in. northcentral mountains. Elsewhere mostly 0.50 to 1.00 in. for wettest week in nearly a month.

Three days suitable. Moisture adequate to surplus. Activities: Plowing; discing; harrowing; spraying; liming; treating tobacco beds for blue mold; hauling manure; planting oats, potatoes, tobacco beds, corn, cabbage, and home gardens. Plowing 71%, last year 57%, average 69%. Soybeans 8% planted compared with 6% last year. Oats 77% planted, last year 57%. Potatoes 43% planted compared with 20% last year. Planting tobacco beds virtually complete. Corn 15% planted compared with 8% last year and average of 12%. Barley 8% in boot stage, last year less than 5%. Wheat 6% in boot stage, last year less than 5%. Hay stand conditions mostly good to fair. Feed from pastures mostly average. Peaches 20% pink and 71% in full bloom or past. Cherries 24% pink, 64% in full

bloom or past. Apples 28% pink, 39% in full bloom or past. Scattered frost damage reported to most fruit crops but severity varied greatly from one locality to another.

**PUERTO RICO:** Island average rainfall 0.80 in. or 0.56 in. below normal. Temperatures averaged 81 to 80° on Coasts and 76 to 74° Interior Divisions. Extremes: 94 and 56°. Temperature 82.3 plus 4. Rainfall 2.17 plus 0.94.

**SOUTH CAROLINA:** Temperatures at the beginning of the week much above normal then dropping sharply to well below normal by week's end. Rainfall continues well below normal.

Soil moisture short to very short. Corn crop fair to good, some damage by high winds and blowing sand, 56% cultivated; 98% planted but some need moisture for germination, 90 last year, 94 average. Cotton condition fair, 91% planted, 81 last year, 78 average. Tobacco 98% transplanted, 89 last year, 93 average. Condition good with cultivation, sidedressing applications. Peaches fair to good condition. All vegetables fair to good condition. Pastures, hay crops fair condition. Dry weather keeping grain heads from filling out well. Wheat turning color, 24%; oats, 28.

**SOUTH DAKOTA:** Dry most of week. Light precipitation most areas late in the week. Average temperature 8° above normal. Extremes: 25 and 91°.

Fieldwork made rapid progress, 6.0 days suitable. Topsoil moisture critically short over western half and southeastern Nebraska border counties. Adequate small pocket northeast and east central. Rest of State short. Subsoil moisture supplies critically short northwest, majority of west central and southwest, parts of central and east central and southern part of southeast. Adequate portions of east central, short elsewhere. Farm activities; small grain seedings, flax and corn planting, row crop preparation, calving and lambing. Over 75% of small grains and 20% of the flax has emerged. Sorghum and soybean planting just beginning. Winter wheat and rye good condition but moisture stress beginning to appear in more fields. Livestock in good condition. Calving 81% completed, lambing 87%. Stock water supplies short. Pastures poor west, fair east. Oats planted 99%, 1980 93%, average 71%. Barley planted 99%, 1980 91%, average 65%. Spring wheat planted 99%, 1980 94%, average 69%. Flax planted 46%, 1980 31%, average 20%. Corn planted 10%, 1980 11%, average 4%.

**TENNESSEE:** Front systems moved through midweek brought rain and thundershowers. Precipitation ranged from 0.05 to 1.22 in. Temperatures averaged near normal in the east and about 5° above normal in the west.

Fieldwork: 4.5 days suitable. Soil moisture adequate. Spring plowing 86% completed, 1980 and average 74%. Corn 60% planted, 1980 50%, average 45%. Cotton 60% planted, 1980 37%, average 31%. Tobacco seedlings in good condition. Small grains in good condition. Wheat 78% headed, 1980 22%, average 45%. Oats 60% headed, 1980 35%, 26% average. Barley 77% headed, 33% 1980, average 51%. Pastures and cattle in good condition. Plowing and planting activities in full swing.

**TEXAS: WEATHER:** Two cold fronts provided additional rains over State past week. Heaviest rains late week as 1st cold front stationary Coastal Plain while, upper atmospheric system over South Texas, coastal areas. Temperatures near normal Lower Valley, far West Texas; north-eastern two thirds above normal temperatures. Rainfall above normal Upper Coastal Plain westward across South Central Texas, Lower Coast. Other areas near normal; Central East Texas above

normal; far West Texas below normal; northwest Abilene below normal.

**RANGE & LIVESTOCK:** Rangeland, pastures, aided by recent rains; grasses, weeds growing well, providing livestock with excellent grazing. High Plains remain dry. Weeds now becoming a problem. Livestock good to excellent condition.

**COMMERCIAL VEGETABLES:** Rio Grande Valley, harvest of carrots, cabbage, onions delayed by wet fields. Cucumbers, watermelons continue to progress well. Harvest of Valencia oranges slowed due to rains. Coastal Bend, cucumbers, watermelons, other vegetables progressing well. Insects beginning to appear, damage light. San Antonio-Winter Garden area, carrot harvest slowed by wet fields. Rains helpful to watermelons, cucumbers, cabbage. East Texas, watermelons, tomatoes progressed well. Sweetpotatoes making good growth. North Texas tomatoes, onions showing good growth. Pepper planting virtually complete. Trans-Pecos region, tomatoes, onions, other summer vegetables recovering from high winds, hail. Cantaloupe planting complete. Plains, onion transplanting complete. Potatoes showing good growth; pepper planting continued. Thinning, spraying of peach trees continues. Early varieties developing well. Pecans in pollination stage, fruit set appears good. Spraying continues.

**CROPS:** Scattered showers improve moisture conditions. Planting spring crops limited progress. Edwards Plateau cotton, corn, sorghum, wheat fields minor to extensive hail damage. Limited cotton planting underway High Plains. Recent rains good preplant moisture; fields seeded soil temperatures warm. Cotton good stand Blackland areas; producers started insect control measures. South Texas fields good growth; some low-lying stands in water. Sorghum planting some progress; wet fields delayed seeding some areas. Scattered Edwards Plateau hail damage. South Texas good growth; Lower Valley heading out. Corn tasseling Lower Valley to Coastal Bend. Edwards Plateau hail damaged be replanted. Early corn good stand High Plains. Cross-Timbers cool soil temperatures. Wet fields slowing development. Wheat, small grain fields responded recent showers; fields head across State. Northern High Plains dryland wheat still moisture stressed. Wheat, oat fields turning color far north as Blacklands, limited harvest underway South Texas wheat fields.

**CROPS:** Southcentral Texas winds, rains blown over some wheat stands, armyworms problem Blacklands-Low Plains; producers continuing spraying operations. Reported wheat condition statewide is 15% excellent; 47% good; 32% fair; and 6% poor. Early rice fields along Texas Coast tiller stage. Heavy rains over weekend should increase supplies coastal irrigation water, weed control measures underway. Hay meadows good growth. Some baling operations interrupted by scattered showers. Cotton planted 23%, 21% 1980, 22% average. Rice planted 93%, 95% 1980, 93% average. Sorghum planted 71%, 66% 1980, 62% average. Wheat headed 56%, 27% 1980. Corn planted 85%, 82% 1980, 80% average. Peanuts 16%, 10% 1980, 14% average.

**UTAH:** Few isolated showers forepart period and more general activity over weekend. Accumulated amounts of moisture ranged from little or none to locally moderate. Average temperatures continued well above normal ranging between 6 and 13° above. Much above normal temperatures along with limited moisture caused marked increase in soil moisture deficit.

Fieldwork interrupted by welcome rains 2nd and 3rd. Spring planting continues ahead of last season. Small grains 75% to 90% planted. About 25% of the corn seeded. Light frost tipped hay crops scattered areas and damaged some home orchards. Extent of loss uncertain at this time. Winter wheat about 8 in. high and alfalfa over 7 in. Aphid and alfalfa weevil both active early this season and causing some damage.

VIRGINIA: A typical springtime week as far as temperatures were concerned. Warm early part of week with cooling trend occurring during latter few days. Scattered frost and record low readings reported 3rd. Temperature extremes: low 90's to upper 20's.

Topsoil moisture 39% short, 53% adequate, 8% surplus. Days suitable for fieldwork: 5.1. Corn planting progress 59% seeded, 38% last year, 48% average. Some replanting in southeastern areas. Soybeans 9% planted, 1% last year, 4% average. Peanuts 13% planted, 13% last year, 12% average. Cotton not yet

planted, 52% last year, 80% average. Flue-cured tobacco 5% transplanted. Haylage and small grain silage harvest active in northern areas. Apple and peach prospects excellent, pasture, hay and wheat continue excellent. Additional moisture needed.

WEST VIRGINIA: Temperatures near normal. High 90°, low 26°. Precipitation above normal except below normal in southern part of State. Precipitation ranged from 1.73 in. to trace amounts.

Soil moisture adequate to surplus. Days

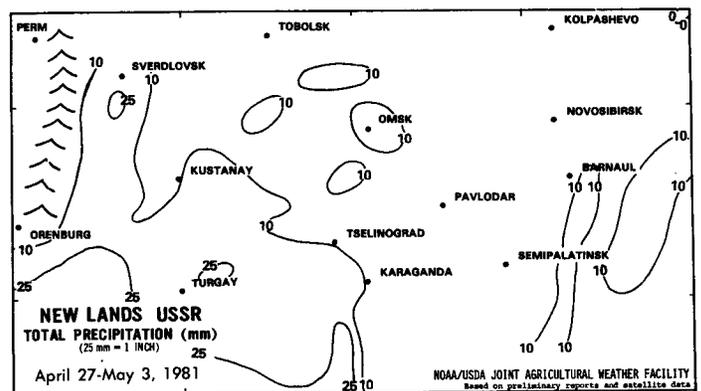
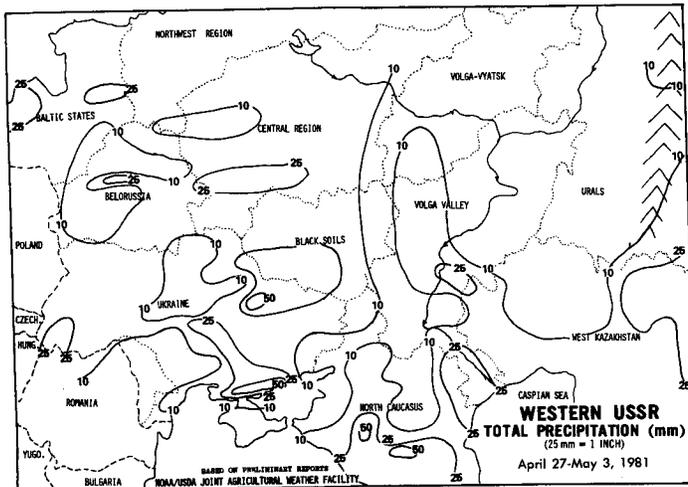
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### International Weather and Crop Summary

April 27-May 3, 1981

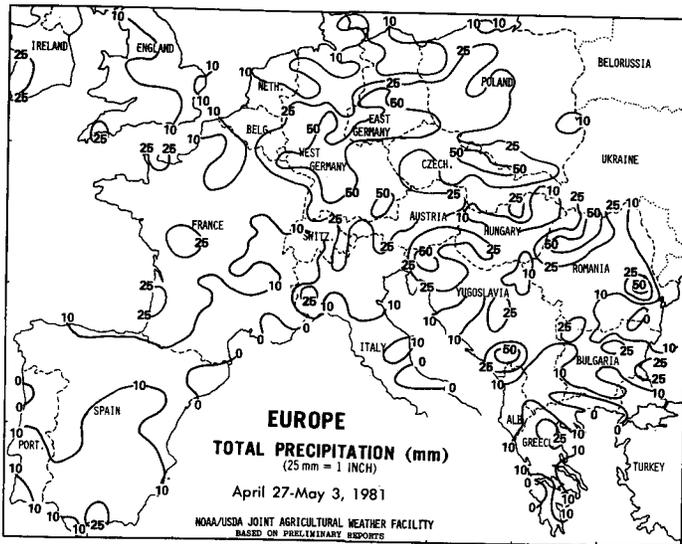
#### HIGHLIGHTS

- USSR:** Cool and rainy weather maintained unfavorable conditions for winter grains; heavy rains caused some washout of cotton.
- EUROPE:** Cool and rainy weather over most of the region was generally beneficial in the south and detrimental in the north.
- NORTHWESTERN AFRICA:** Conditions became too wet for maturing winter grains in parts of Morocco and Algeria.
- SOUTH ASIA:** Showers spread over the southeastern half of India; Bangladesh stayed mostly dry.
- CHINA:** Some beneficial rain fell in Hebei and the Manchurian Valley; heavy rains returned in the south.
- SOUTH AMERICA:** Showers in Brazil interfered with late harvest activities but provided beneficial moisture to the wheat area. Dry weather in Argentina aided crop harvests.
- THAILAND:** Premonsoon rains continue to improve moisture reserves for corn and rice plantings.
- CANADA:** Showers improved topsoil moisture conditions in the eastern wheat belt. Additional spring rains are needed to replenish topsoil reserves. Early planting has begun.
- AUSTRALIA:** Dry weather continued to cause adverse moisture conditions for wheat sowing.
- MEXICO:** Heavy rains helped northeastern corn, grain sorghum, and some citrus, while mostly dry weather continued elsewhere.

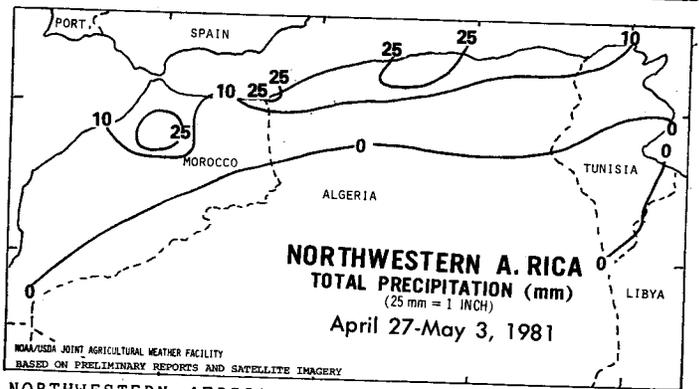


USSR: Temperatures in the winter grain belt rose to renew growth, but readings stayed lower than normal. This put crop development further behind normal, much like last year. Rainfall was generally above normal, as two frontal systems moved slowly through the area. Some parts of the belt received lighter rainfall, but abundant rains in other areas kept fields on the wet side and

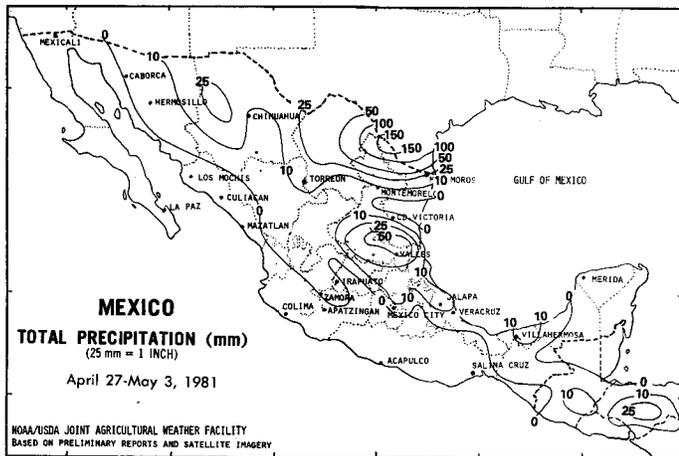
fieldwork behind schedule. In the New Lands, a weekend storm moving across the south dropped abundant, beneficial rain in the southwestern portion. Variable rainfall over the rest of the area averaged near the normal of 5 mm. However, more moisture should fall as this system and another from the northwest move slowly eastward. The storm in the south also caused heavy rains in the cotton-growing area. Heaviest amounts occurred in southern Uzbekistan and eastern Turkmenistan, and may have caused substantial washout of newly planted cotton.



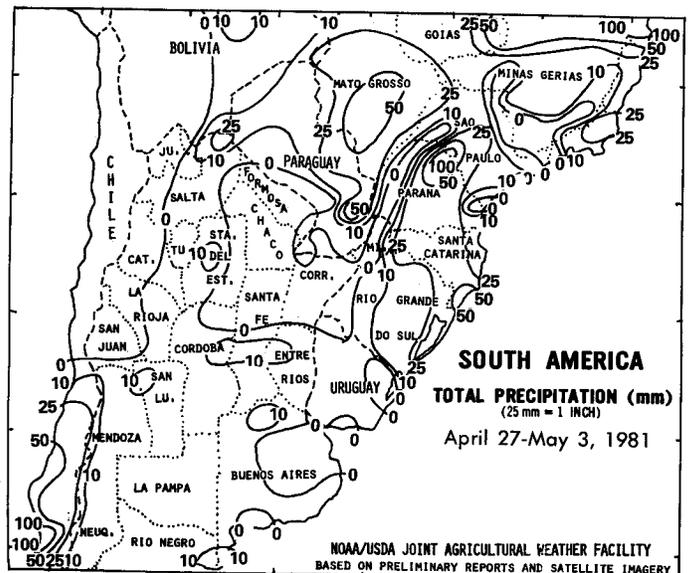
**EUROPE:** Relatively cold and wet weather dominated the region, and worsened some developing problems across the north. Conditions remained too cold for crop growth in the northeastern countries, and development of crops was further slowed in all other countries. The moisture benefited some areas which had become a little dry, but some other areas may have been too wet. Snow in the United Kingdom during the previous week caused substantial losses of new-born lambs, but major winter grain areas sustained little damage. Previously dry crop areas in Spain and northern Italy continued to receive generous rains, and further reductions in winter grain yield are unlikely. The water supply outlook for spring crops in Spain improved further, but shortages persist.



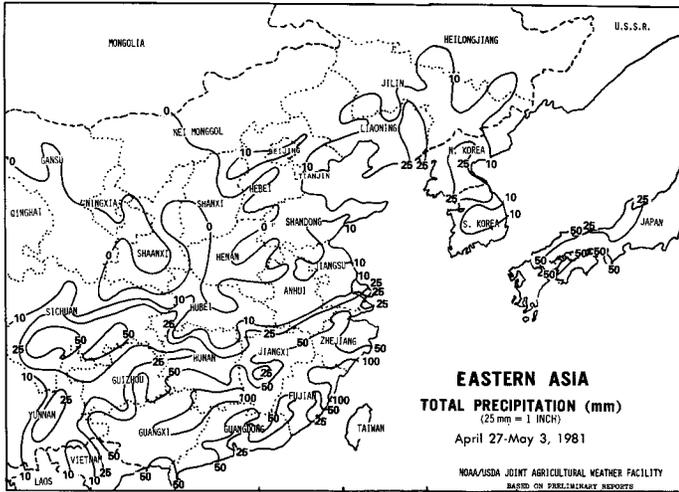
**NORTHWESTERN AFRICA:** A low pressure system that developed over Tunisia late in the week caused some above-normal rainfall in northern Morocco and Algeria. This moisture created somewhat unfavorable conditions for winter grains nearing maturity. Problems may be minimized if normal drier weather returns soon. Lighter rainfall in Tunisia should not have caused any problems.



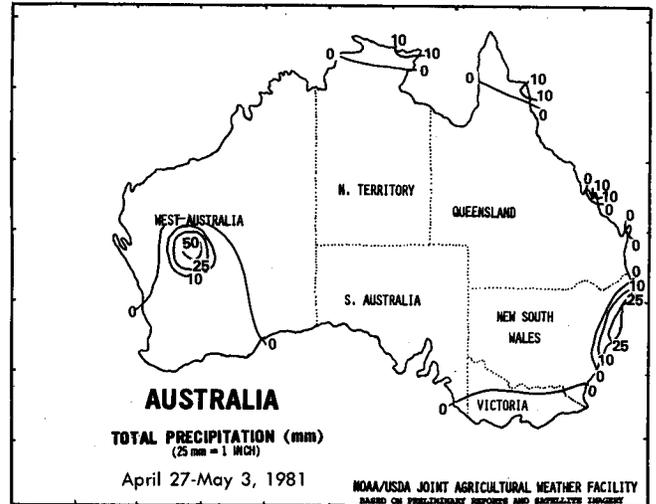
**MEXICO:** Heavy rains drenched the upper northeast, benefiting rangeland, as well as some corn and grain sorghum around Matamoros. Heavy showers also fell at Valles and improved growing conditions for citrus and sugar cane. Other citrus areas received only light rains. It was mostly dry with hot afternoons over the northcentral cotton fields, the southern Plateau corn belt, and the northwest farming areas. However, moderate rains fell over some northwestern mountain watersheds, improving water supply in a few reservoirs.



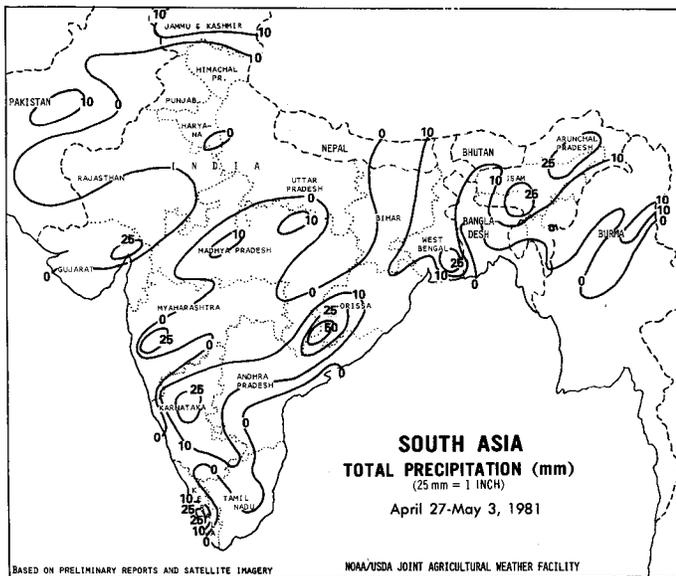
**SOUTH AMERICA:** Central and southern portions of Brazil's corn/soybean belt received significant rainfall. Weekly totals averaged 20-40 mm in most areas; however, Londrina, Parana reported over 100 mm. Since the soybean harvest is at least 80-85 percent complete in Parana, the heavy showers should not cause any significant reduction in overall yields. In fact, Brazil's crop harvest in general is progressing quite well, with about 75 percent of the total soybean crop already harvested. Showers in Rio Grande do Sul produced about 10-25 mm; the moisture will be highly beneficial for sowing wheat after the soybean harvest. In Argentina, relatively dry weather aided harvest activities. About 50 percent of the corn crop and over 40 percent of the sorghum crop have been harvested. Preparations for winter wheat sowing in Buenos Aires and surrounding provinces have also begun.



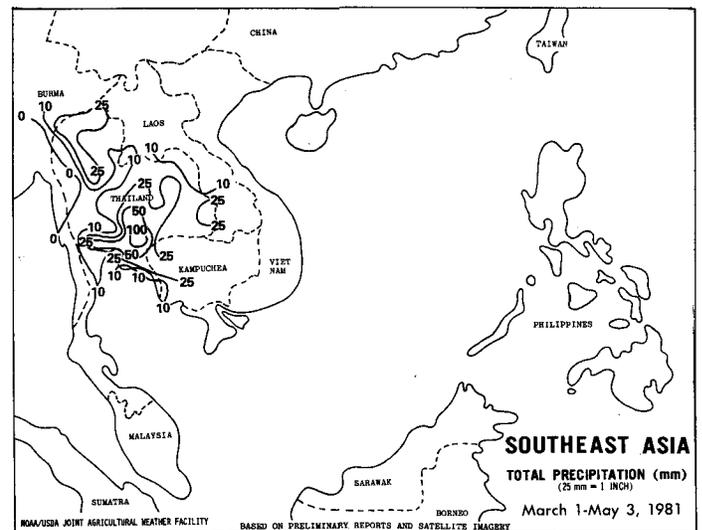
**EASTERN ASIA:** Light to moderate rainfall improved growing conditions in crop areas of Hebei, Liaoning, and Jilin in the northeast. Rainfall amounts ranging from 5 to 15 mm in northern crop areas of Hebei helped winter wheat, but some decline in potential yields may already have occurred. Moisture falling in the Manchurian Valley improved conditions in the western portions, but kept soils too wet in the east. Rainfall increased again south of the Yangtze River. Greatest amounts stayed in the hills, but kept streams running full and caused some localized flooding. In South Korea, rainfall increased somewhat, but remained below normal. Some crop areas could be a little short of water. Temperatures in all parts of the region stayed warmer than normal.



**AUSTRALIA:** Mostly dry weather prevailed in the southern Australia wheat belt. Significant weekly rainfall (greater than 10 mm) was confined to a small area in central West Australia and coastal areas of New South Wales. Localized shower activity was responsible for this scattered rainfall. Rain will be needed very soon in the wheat belt to provide sufficient moisture for successful planting and early crop growth.



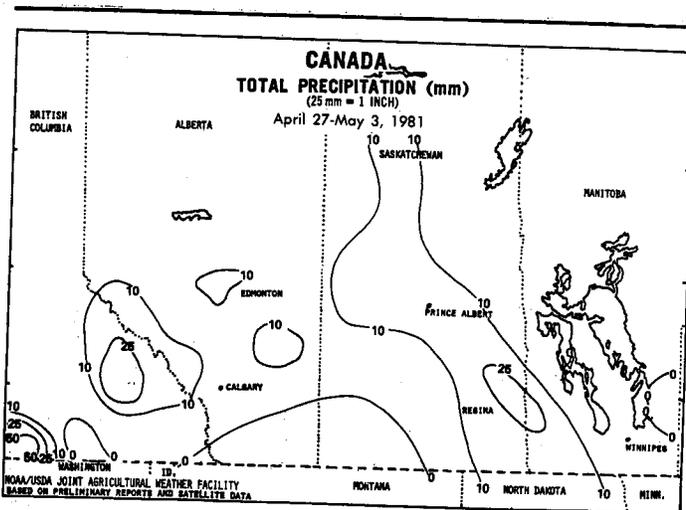
**SOUTH ASIA:** Rainfall remained on the light side in Bangladesh, allowing further drying of previously flooded fields. Scattered showers continued in eastern India and spread over the southeastern half of the country. Rainfall amounts were above normal at many locations, but coverage was spotty. Such pre-monsoon showers are expected at this time of year, but they appear to be starting a little earlier than normal this year. Although much of the moisture will be lost to normal high evaporation, this early onset of rains will replenish soil moisture somewhat, and provide optimism for the approaching rainy season. Fair weather prevailed in major wheat areas of the north as harvesting neared completion.



**SOUTHEAST ASIA:** Widespread showers produced significant weekly rainfall over much of Thailand. In the northern zone, 15-35 mm of rain fell during the week. Variable amounts (15-50 mm) were reported in eastern portions; however, in the area to the north and east of Bangkok weekly rainfall totaled 50-125 mm. Rainfall was light in the west and south. The pre-monsoon rainfall has been highly beneficial to agriculture.



# FIRST CLASS MAIL



**CANADA:** Showers produced 10-25 mm of weekly rainfall in Manitoba, eastern Saskatchewan and scattered locations in northern Alberta's wheat growing area. Southwestern Saskatchewan and southern Alberta were mostly dry throughout the week. Topsoil moisture is rated poor in this portion of the Canadian wheat belt. Early wheat sowing has begun in southern Saskatchewan with up to 30 percent of the intended wheat acreage planted in southwestern areas. The wheat growing region will need an adequate supply of topsoil moisture within the next month to ensure proper germination and uniform emergence of the wheat crop.

## State Summaries (Continued from page 21)

suitable for fieldwork: 2.6. Main activities fencing, gardening, livestock maintenance. Corn planted 13%, 16% in 1980. Oats planted 64%, 66% in 1980. Tobacco beds seeded 92%, 96% in 1980; emerged 72%, 64% in 1980. Wheat, pasture and livestock in good to fair condition. Barley, oats, potatoes, tobacco, hay and gardens in fair to good condition. Corn, apples and peaches fair condition. Hay, grain and other feed supplies adequate.

**WISCONSIN:** Temperatures averaged near normal. Week began and ended warm with highs in 70's and a few 80's 27th and 3rd. Cooler rest of week with highs 50's and 60's. Lows 30's and 40's. Extremes: 81° Madison 3rd and 25° Morse 1st. Rainfall heavy northern half where 1.00 to 2.00 in. fell. Lighter amounts south and east around 0.50 in. Measurable rainfall occurred every day somewhere in State.

Fieldwork slowed by rain and wet soils, averaged 2.0 days suitable. Oats 50% planted, 1980 60%, average 47%. Most farmers done planting oats south, but many in north have none planted on heavy soils. Early oats sown in March have good start. Winter wheat doing well. Planting of spring wheat and barley continuing. Spring plowing 40% done, 1980 45%, average 37%. South most advanced on plowing. Corn 7% planted, 1980 7%, average 5%. Much ground prepared and ready for planting corn in south. Soil temperatures averaging over 50° south. Hay fields growing well where not affected by winterkill. Pastures ahead of normal for early May. Planting continuing for early peas, potatoes, and sweet corn. Fruit trees in bloom southern areas. Tobacco beds being seeded. Soil moisture 45% adequate, 55% surplus. Wettest northwest.

**WYOMING:** Temperatures averaged well above normal. Warmest in Belle Fourche Drainage, 87°. Lowest temperature 22° in Snake Drainage. All areas reported below normal precipitation, with one exception in Big Horn Drainage.

Spring wheat planting: 65%; 65% year ago; 59% normal. Spring wheat emerged: 35%; 41% year ago; 30% normal. Oats planting: 70%; 58% year ago; 56% normal. Oats emerged: 35%; 14% year ago; 25% normal. Barley planting 75%; 72% year ago; 68% normal. Barley emerged 55%; 37% year ago; 40% normal. Sugarbeet planting 95%; 76% year ago; 78% normal. Sugarbeets emerged 30%; 6% year ago; 18% normal. Potatoes planted 5%; 5% year ago; 9% normal. Corn planted 20%; 11% year ago; 24% normal. Spring calving 90% complete; 85% year ago. Range ewes 55% lambled; range sheep 60% shorn. Farm flock ewes 95% lambled; farm flocks 85% shorn. Spring grazing prospects rated mostly fair.