

WEEKLY WEATHER AND CROP BULLETIN

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

U.S. DEPARTMENT OF AGRICULTURE
Statistical Reporting Service
and World Agricultural Outlook Board

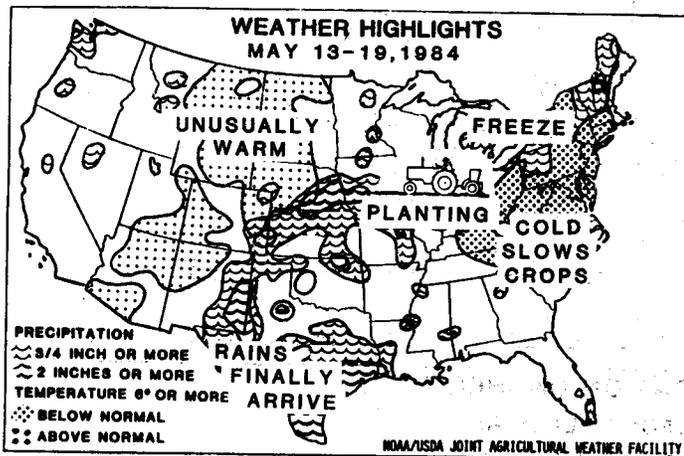
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May 22, 1984

National Weather Summary

May 13 to 19



HIGHLIGHTS: High pressure over the eastern United States caused unusually cold weather, and at midweek freezing temperatures spread over most of southern Michigan and into the central Appalachians. Warmer weather returned as the week ended. Warm weather prevailed through the Plains and the West during most of the week but cooled late in the week. Warm, moist air from the Gulf of Mexico triggered showers as it spread through the southern and central Plains and then eastward across the lower Great Lakes region and to the mid-Atlantic States. Heavy showers in much of southern and western Texas helped the dry conditions there, but some areas still need rain. Showers spread over the dry parts of eastern Montana and into Canada.

SUNDAY...Showers and thunderstorms lingered in the middle Mississippi Valley and redeveloped late in the day north of a cold front from New England through the Ohio and Tennessee Valleys and westward into the central Rockies. Light showers fell throughout the northern Rockies. Warm weather over the Plateau caused rapid snowmelt and the light showers aggravated local flooding.

MONDAY...Very light showers continued from Pennsylvania through New England as much cooler air dipped into the lakes region and the Northeast. Freezing temperatures reached into southern Michigan. Unusually warm weather over the Rockies continued to cause rapid snowmelt which was aggravated by light to moderate showers.

TUESDAY...Warm, moist air from the Gulf of Mexico flowed into southern Texas and northward through the Rockies. Scattered showers brought welcome relief to parts of southern Texas, while widespread showers and warm temperatures spread through the Rockies and the Plateau.

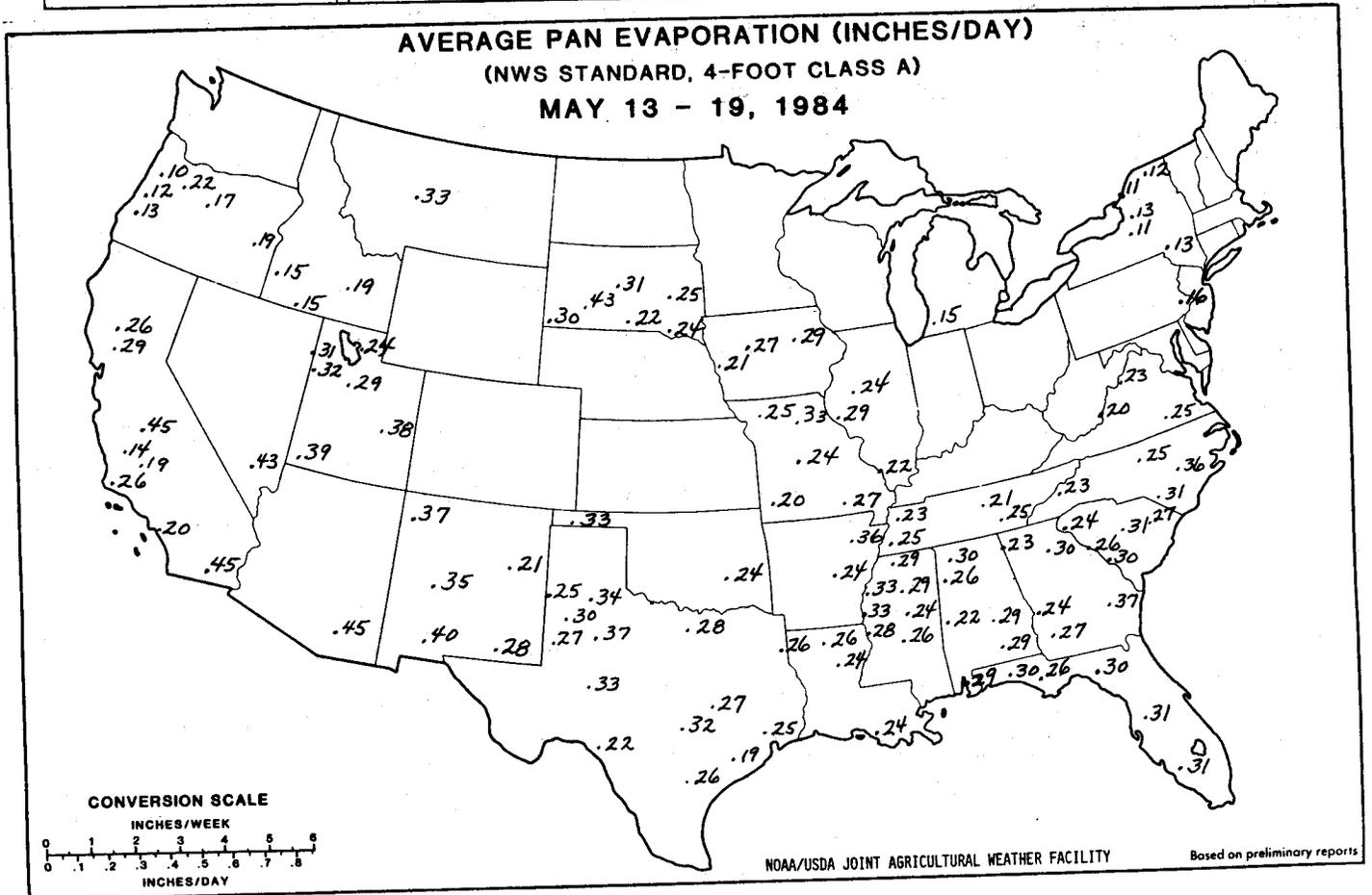
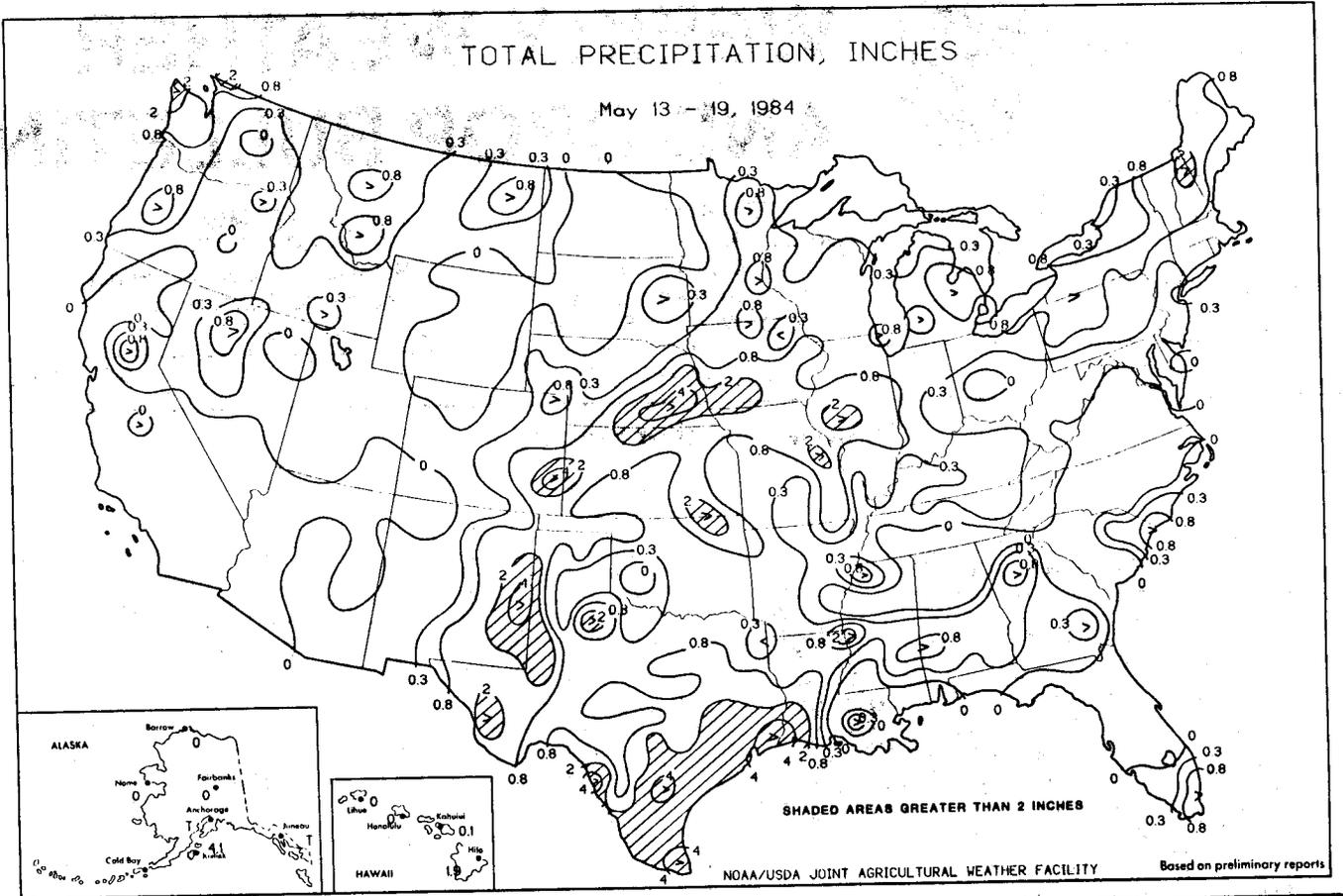
WEDNESDAY...A high-pressure system brought cold weather to the Northeast. Temperatures dropped to freezing through Michigan and to the central Appalachians. Behind the high pressure center, moist air flowed northward through Texas to cover the Rockies. Showers covered most of Texas with moderate to heavy amounts of rain falling in the Rio Grande Valley and the high plains of New Mexico.

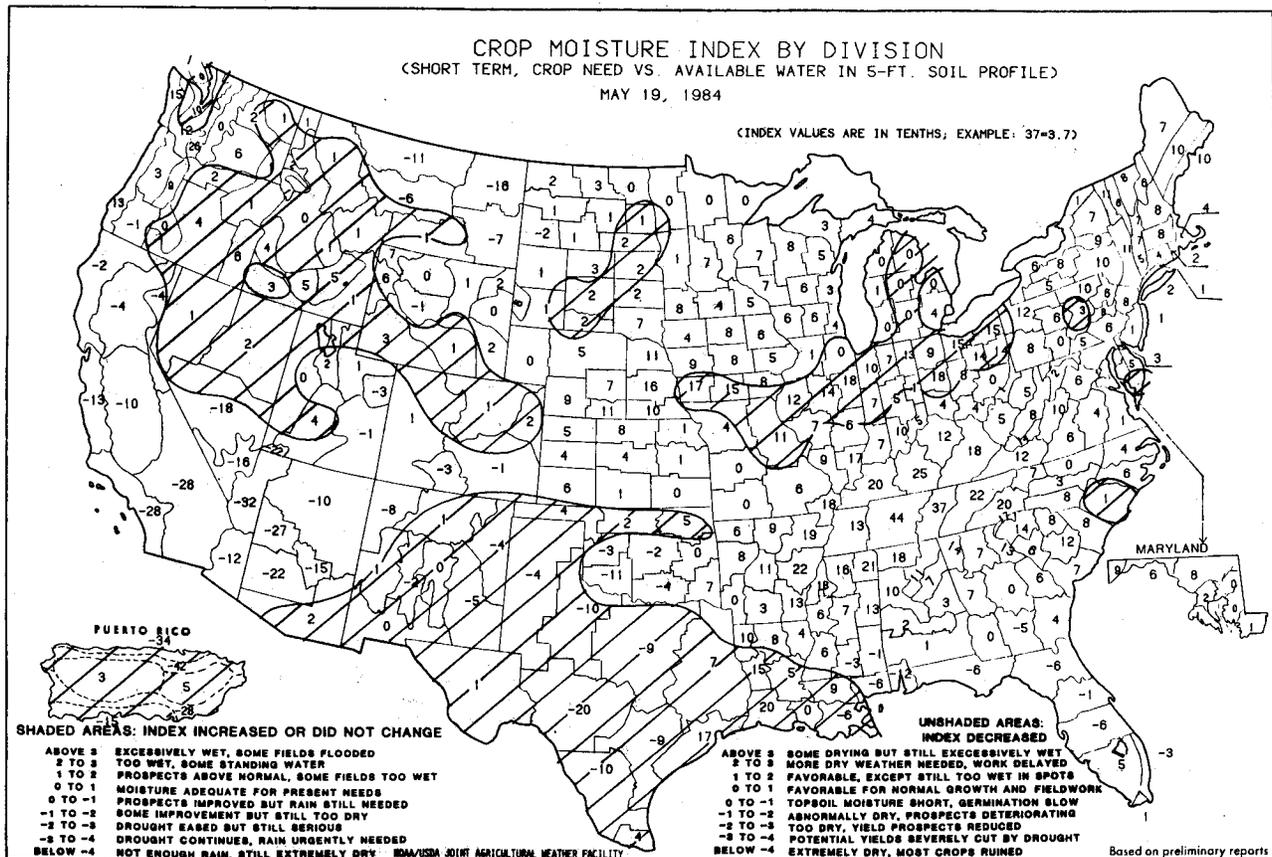
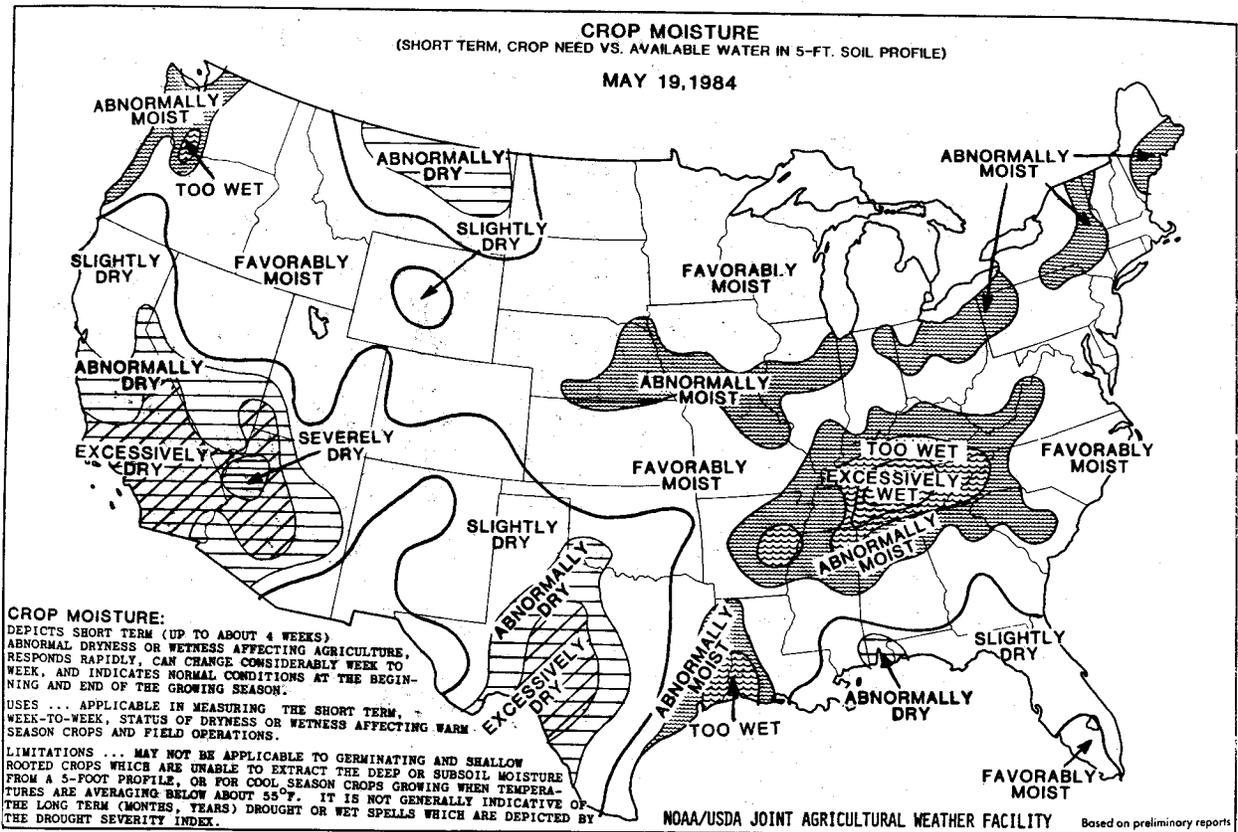
THURSDAY...Showers and thunderstorms continued and covered most of Texas, the High Plains through Kansas, into southern Nebraska, and to the Great Lakes. Heavy amounts of rain fell in southern Texas, the western High Plains of Texas, and southeastern Nebraska.

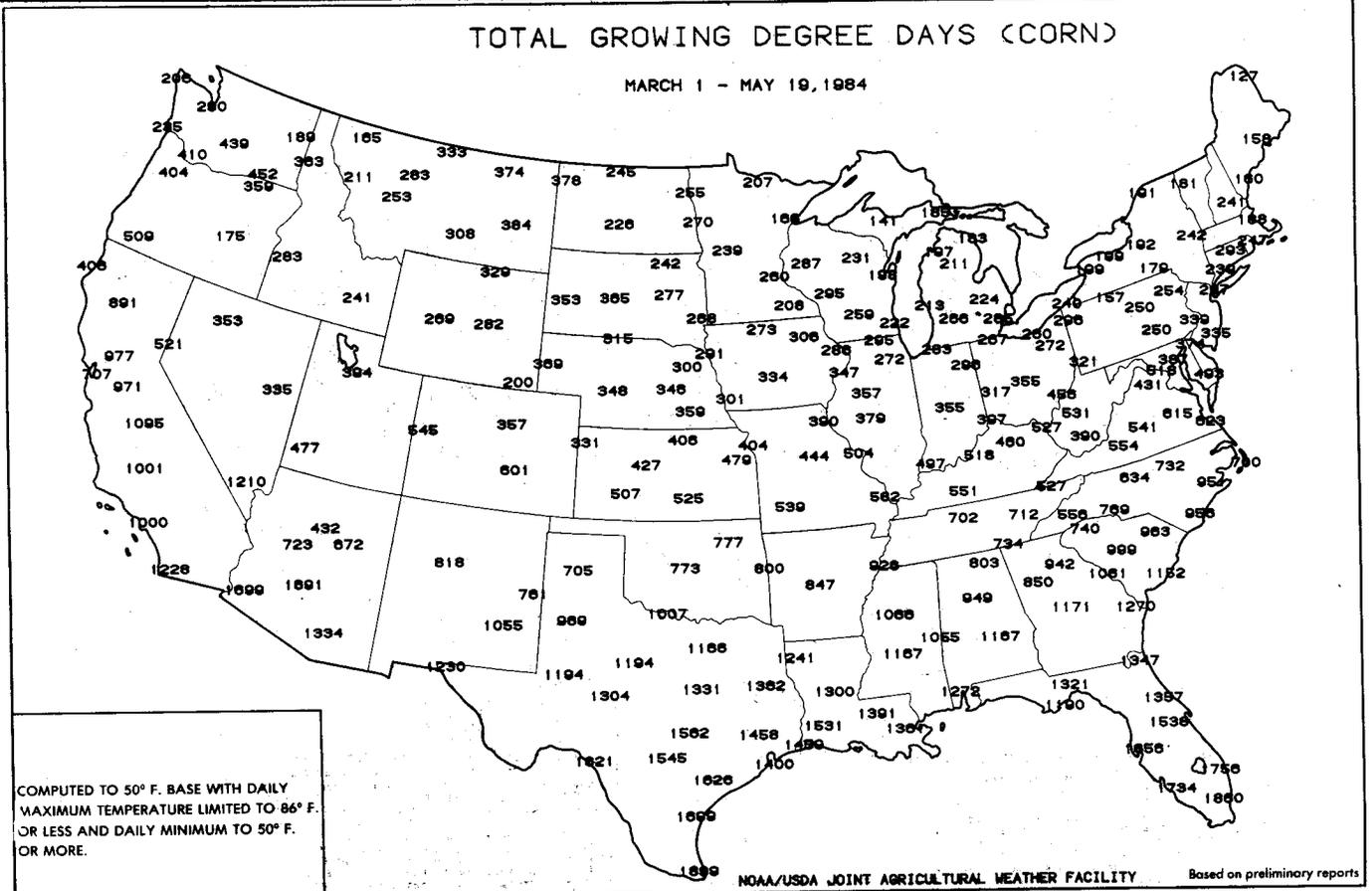
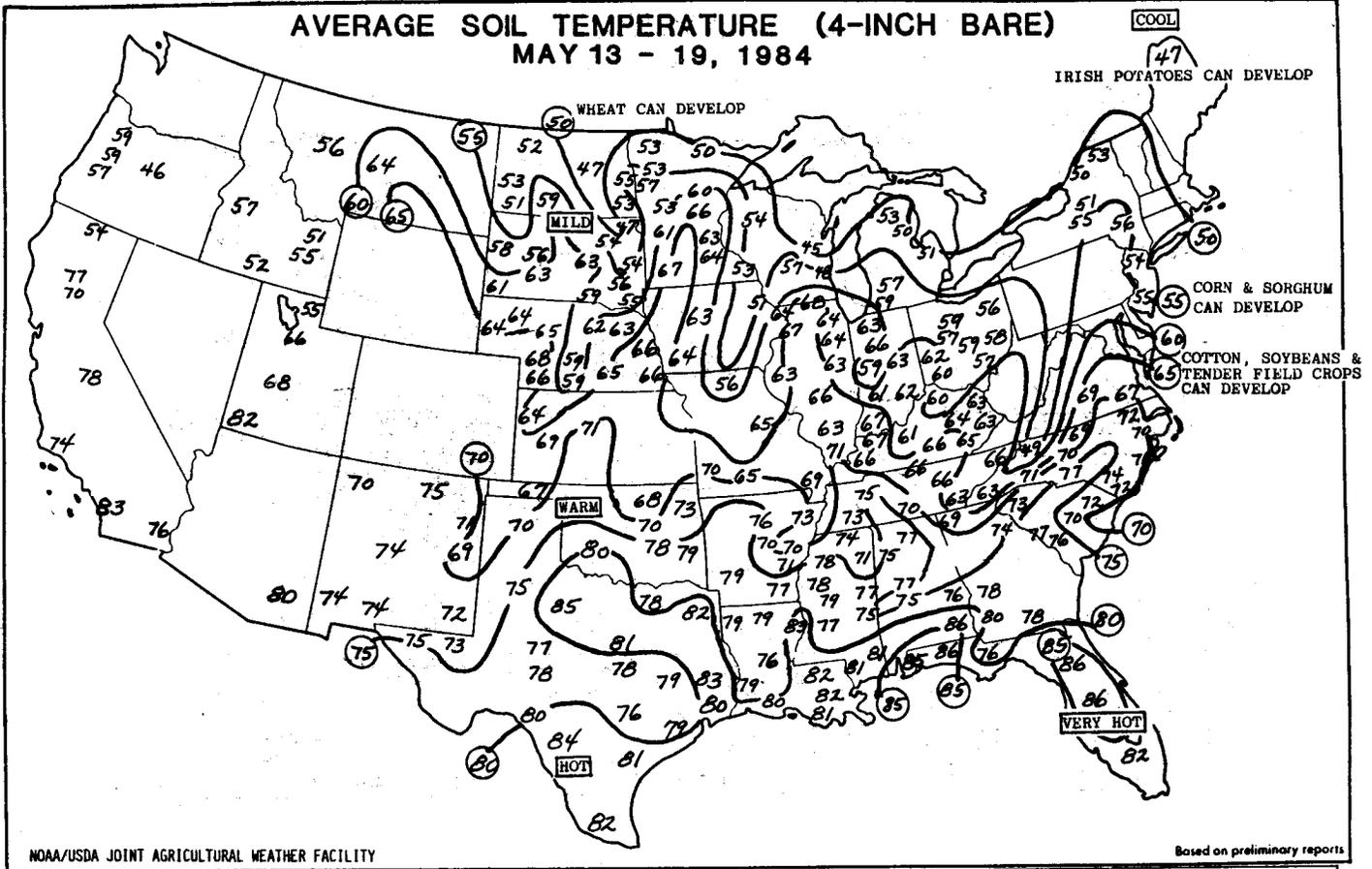
FRIDAY...Showers and thunderstorms spread through the southern and central Plains and eastward across the lower Great Lakes to the mid-Atlantic States. Heavy amounts of rain fell in the dry parts of eastern Texas and from southeastern Nebraska to south-central Iowa. Afternoon temperatures rose to the middle to high eighties as far north as Chicago.

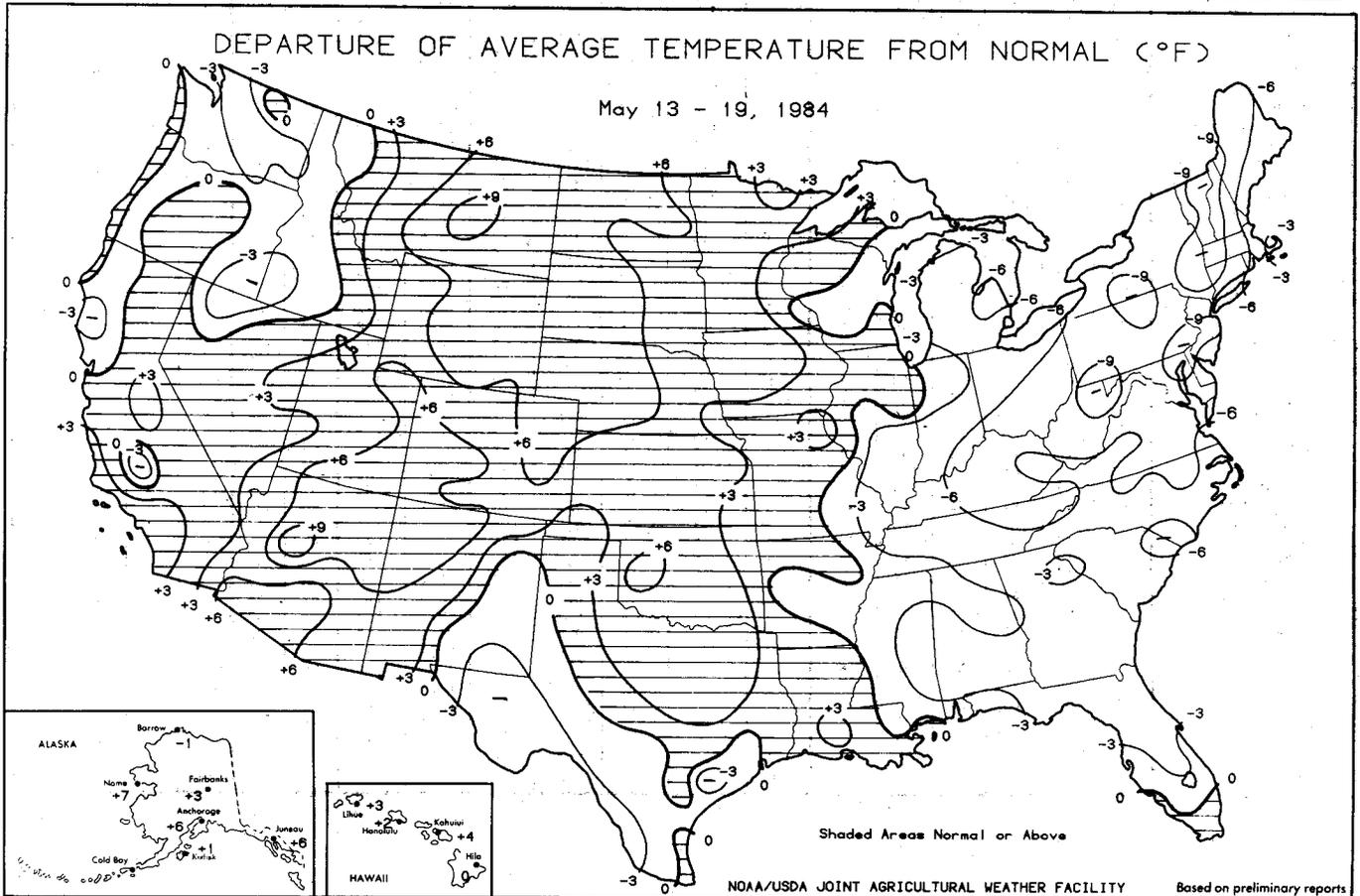
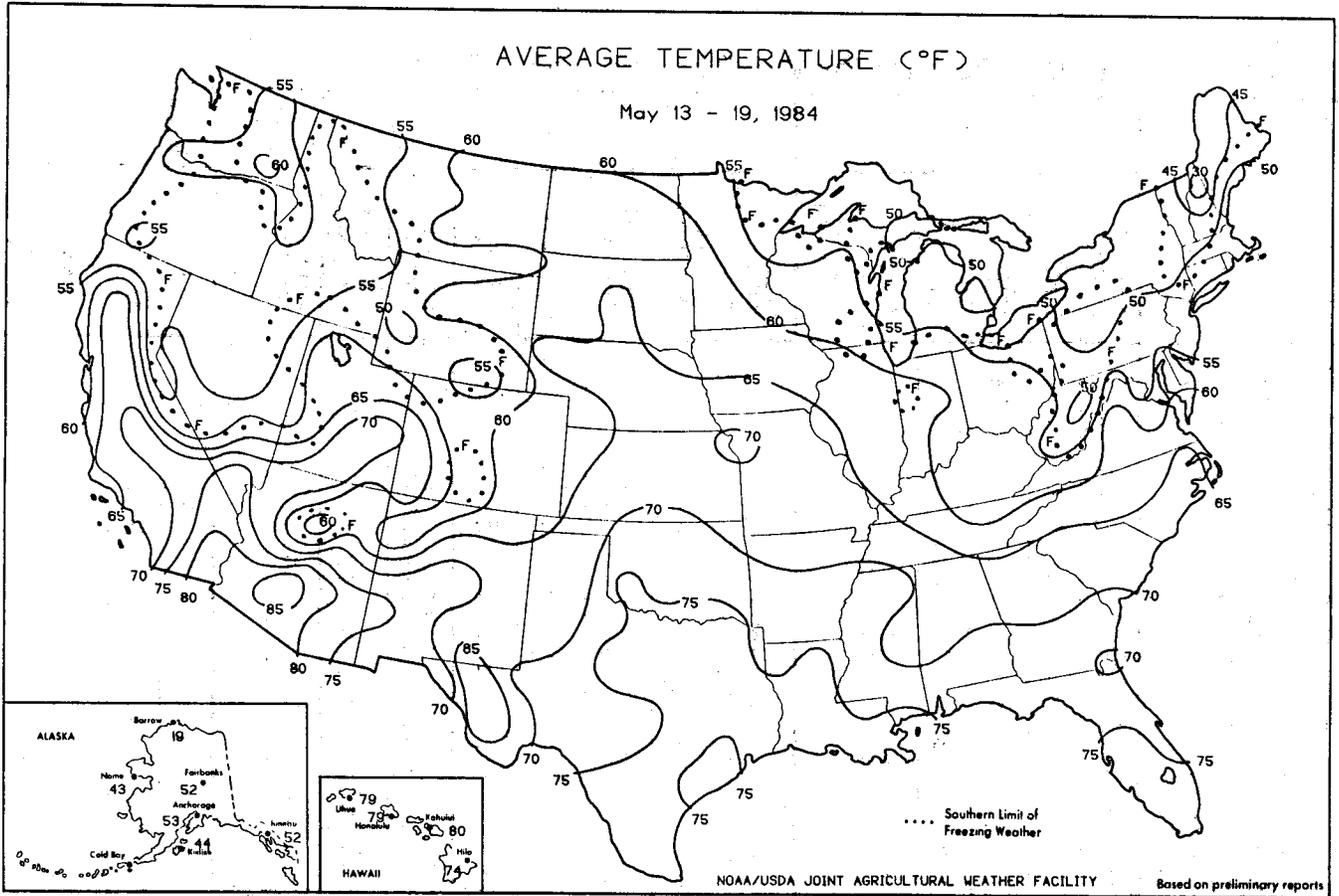
SATURDAY...Heavy thunderstorms and severe weather covered much of eastern Texas, southeastern Oklahoma, southwestern Arkansas, and southern Louisiana. Somewhat lighter storms covered most of the central Plains and heavy rain reached from northern Missouri to northwestern Ohio. Warm weather returned to the East but it was somewhat cooler in the Plains.

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Weather Data for the Week Ending MAY 19, 1984

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE MAR. 4	PCT. NORMAL SINCE MAR. 4	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	82	54	87	46	68	-2	0	-1.1	0	14.3	102	21.5	87	85	21	0	0	0	0
AL MOBILE	85	59	91	56	72	-3	0	-1.3	0	8.6	59	19.6	78	89	36	1	0	0	0
AL MONTGOMERY	83	57	90	50	70	-3	.6	-1.3	.6	11.1	91	20.4	94	90	39	1	0	1	1
AK ANCHORAGE	62	44	65	38	53	6	T	T	T	.9	69	3.2	110	61	33	0	0	1	0
AK BARROW	27	17	39	-3	19	-1	T	T	T	.5	71	.8	89	89	64	0	7	0	0
AK FAIRBANKS	66	39	72	31	52	3	T	T	T	1.0	91	2.6	124	73	23	0	1	0	0
AK JUNEAU	62	43	69	39	52	6	T	T	T	5.8	73	18.2	114	93	45	0	0	2	0
AK KODIAK	47	42	52	34	44	1	4.1	2.2	1.3	19.2	141	36.4	126	100	87	0	0	6	3
AK NOME	51	36	60	27	43	7	T	T	T	1.3	87	2.1	72	71	50	0	2	0	0
AZ PHOENIX	99	73	103	68	86	9	.2	.2	.2	1.1	100	1.4	61	43	14	7	0	1	0
AZ PRESCOTT	81	52	88	46	67	0	0	-1.1	0	.3	13	.3	5	43	12	0	0	0	0
AZ TUCSON	94	63	98	60	78	5	.1	.1	T	.4	44	1.0	43	45	13	7	0	2	0
AZ YUMA	98	70	104	61	84	5	0	0	T	.8	200	.0	69	43	15	7	0	0	0
AR FORT SMITH	81	59	88	52	70	0	.4	-.7	.4	9.2	85	12.6	81	88	48	0	0	1	0
AR LITTLE ROCK	81	59	89	55	70	0	.2	-1.0	.2	15.3	117	20.6	98	80	42	0	0	1	0
CA BAKERSFIELD	83	50	93	41	67	-4	0	-1.1	0	1.1	61	1.2	29	64	25	2	0	0	0
CA EUREKA	62	47	67	44	54	2	T	T	T	9.7	174	15.8	74	89	65	0	0	1	0
CA FRESNO	85	56	96	48	71	2	T	T	T	.6	21	1.8	26	63	19	2	0	1	0
CA LOS ANGELES	71	58	74	54	65	2	0	0	0	1.3	48	1.7	20	84	50	0	0	0	0
CA RED BLUFF	82	54	91	45	68	0	0	-2.2	0	1.8	44	4.1	33	63	21	2	0	0	0
CA SACRAMENTO	81	53	92	46	67	2	0	-1.1	0	1.4	41	2.9	27	72	23	2	0	0	0
CA SAN DIEGO	72	62	75	58	67	4	0	-1.1	0	.6	24	1.2	19	85	62	0	0	0	0
CA SAN FRANCISCO	67	49	70	44	58	0	0	-1.1	0	2.1	50	4.0	39	80	46	0	0	0	0
CO DENVER	76	50	83	45	63	6	.2	-.4	.2	4.1	87	5.1	88	73	26	0	0	1	0
CO GRAND JUNCTION	83	55	93	46	69	7	T	T	T	3.2	160	3.6	120	54	17	1	0	1	0
CO PUEBLO	81	51	87	46	66	5	.7	-.3	.6	3.4	126	3.7	109	83	30	0	0	2	1
CT BRIDGEPORT	63	43	70	40	53	-5	.4	-.4	.3	0.8	103	16.3	101	77	38	0	0	2	0
CT HARTFORD	64	37	70	31	51	-9	.3	-.4	.2	11.2	112	17.9	103	87	34	0	1	3	0
DC WASHINGTON	71	49	89	41	60	-6	T	T	T	11.6	143	16.7	122	67	32	0	0	1	0
FL APALACHICOLA	82	61	86	55	71	-3	0	-1.6	0	15.3	182	24.0	150	86	46	0	0	0	0
FL DAYTONA BEACH	81	59	90	50	70	-5	0	-1.7	0	7.6	113	12.6	99	76	40	1	0	0	0
FL JACKSONVILLE	83	56	91	48	69	-5	0	-1.1	0	9.8	103	16.6	99	92	37	1	0	0	0
FL KEY WEST	84	75	88	73	79	-1	.2	-.5	.2	8.1	180	12.4	144	76	56	0	0	1	0
FL MIAMI	84	68	89	67	76	-3	.9	-.6	.9	11.9	143	12.8	101	83	45	0	0	1	1
FL ORLANDO	85	62	90	58	73	-4	0	-.9	0	9.1	128	13.9	111	92	43	1	0	0	0
FL TALLAHASSEE	87	56	92	50	71	-3	T	-1.2	T	15.7	128	25.8	114	96	35	2	0	0	0
FL TAMPA	87	65	90	60	76	-1	0	-.8	0	2.7	41	7.6	62	88	42	1	0	0	0
FL WEST PALM BEACH	84	69	89	66	77	-1	.1	-1.3	.1	11.2	120	17.1	113	79	47	0	0	1	0
GA ATLANTA	79	56	85	51	67	-2	.9	0	.9	16.2	133	27.0	122	80	34	0	0	1	1
GA AUGUSTA	82	53	90	44	67	-4	0	-.8	0	14.8	151	23.1	125	85	30	1	0	0	0
GA MACON	84	53	92	44	69	-4	.1	-.8	.1	8.6	83	17.3	86	97	35	2	0	1	0
GA SAVANNAH	83	57	92	48	70	-4	0	-1.1	0	10.5	112	22.6	140	82	31	2	0	0	0
HI HILO	81	67	82	65	74	0	1.9	-.2	.5	18.0	57	39.2	69	89	59	0	0	6	1
HI HONOLULU	85	73	86	71	79	2	T	-3.2	T	3.1	57	4.6	38	76	46	0	0	0	0
HI KAHULUI	87	72	89	66	80	4	.1	-.1	T	1.1	26	5.2	43	68	46	0	0	2	0
HI LIHUE	83	74	84	71	79	3	0	-.7	0	3.0	32	6.8	34	73	56	0	0	0	0
ID BOISE	67	43	82	31	55	-3	.3	0	.3	4.2	135	5.9	100	80	39	0	1	2	0
ID LEWISTON	66	45	77	39	56	-3	.3	-1.1	.2	3.3	110	4.6	88	83	42	0	0	2	0
ID POCATELLO	72	41	89	31	56	2	.2	-1.1	.2	3.4	176	6.0	128	82	30	0	1	1	0
IL CHICAGO	73	45	91	36	59	-1	.5	-.2	.3	7.6	93	10.5	92	85	38	1	0	3	0
IL MOLINE	78	49	90	37	64	2	.4	-.5	.4	9.4	102	11.1	90	76	32	1	0	1	0
IL PEORIA	77	49	86	40	63	2	.9	0	.8	10.7	119	13.6	111	78	34	0	0	2	1
IL QUINCY	79	55	87	49	67	4	1.9	-.9	1.0	10.5	111	12.7	101	87	42	0	0	2	2
IL ROCKFORD	74	46	87	33	60	0	.3	-.5	.2	5.6	63	7.6	64	84	38	0	0	2	0
IL SPRINGFIELD	77	50	86	38	63	0	2.2	-1.5	1.4	12.0	132	14.6	115	84	36	0	0	2	2
IN EVANSVILLE	75	47	85	39	61	-5	.3	-.7	.3	15.0	135	18.4	105	85	35	0	0	.1	0
IN FORT WAYNE	72	45	86	35	59	-2	.7	-.1	.5	7.8	92	10.5	82	77	35	0	0	2	1
IN INDIANAPOLIS	74	45	85	37	59	-3	.2	-.7	.2	8.1	88	12.3	84	82	31	0	0	1	0
IN SOUTH BEND	69	45	87	34	57	-2	.4	-.2	.3	7.4	84	9.8	72	80	36	0	0	2	0
IA DES MOINES	76	55	87	48	66	3	1.3	-.3	.8	9.7	124	11.6	114	80	46	0	0	2	2
IA SIOUX CITY	74	55	81	43	64	2	.6	-.2	.5	11.0	186	12.5	167	83	45	0	0	2	0
IA WATERLOO	77	52	90	44	64	5	.2	-.7	.2	7.5	90	8.9	86	78	40	1	0	1	0
KS CONCORDIA	78	58	84	52	68	4	1.4	-.5	1.4	11.0	177	12.4	159	90	55	0	0	1	1
KS DODGE CITY	77	60	81	53	69	4	.6	-.2	.2	8.5	163	9.5	142	87	56	0	0	4	0
KS GOODLAND	72	55	79	50	63	4	.5	-.3	.4	6.4	160	8.7	178	95	49	0	0	2	0
KS TOPEKA	82	59	88	54	70	5	.5	-.4	.5	9.4	131	11.1	119	71	38	0	0	2	0
KS WICHITA	79	59	87	56	69	3	.4	-.6	.3	11.9	180	13.9	167	89	55	0	0	2	0
KY BOWLING GREEN	75	46	84	41	60	-6	.3	-.7	.3	21.2	180	27.2	130	94	38	0	0	1	0
KY LEXINGTON	70	45	81	37	58	-7	.5	-.5	.5	13.2	119	18.2	97	86	39	0	0	1	0
KY LOUISVILLE	74	47	85	42	61	-5	.7	-.3	.7	14.7	132	17.2	95	79	34	0	0	1	1
LA ALEXANDRIA	87	64	90	63	75	0	1.1	-.4	1.1	10.6	75	25.2	101	81	40	1	0	1	1
LA BATON ROUGE	87	66	90	63	76	1	0	-1.1	0	4.4	34	13.6	59	86	39	2	0	0	0
LA LAKE CHARLES	87	67	92	64	77	2	3.2	2.0	3.2	7.6	75	17.6	94	92	47	3	0	1	1
LA NEW ORLEANS	85	65	89	59	75	0	0	-1.2	0	7.0	59	16.4	72	87	40	0	0	0	0

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

+100 = NORMAL & ACTUAL NEAR THE SAME

Weather Data for the Week Ending MAY 19, 1984

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE MAR. 4	PCT. NORMAL SINCE MAR. 4	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE °F		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
ME SHREVEPORT	85	62	90	59	74	0	.3	-.8	.2	10.7	96	18.4	96	80	49	1	0	2	0
ME CARIBOU	54	37	65	32	45	-6	.5	-.2	.4	6.7	103	12.1	106	85	48	0	0	3	4
ME PORTLAND	60	39	67	34	49	-4	.4	-.3	.3	12.7	135	20.4	119	85	39	0	0	0	0
MD BALTIMORE	68	43	87	40	55	-8	.1	-.7	.1	10.9	125	16.7	109	79	31	0	0	0	1
MD SALISBURY	69	44	85	39	56	-7	.7	-.8	.1	13.3	146	19.8	121	96	39	0	0	0	0
MA BOSTON	61	45	72	42	53	-6	.3	-.5	.1	12.8	132	23.9	133	84	42	0	0	0	5
MA CHATHAM	61	46	64	42	53	0	.3	-.5	.3	14.7	148	22.5	118	—	—	0	0	0	0
MI ALPENA	61	37	76	27	49	-3	.1	-.5	.1	5.3	85	7.0	73	88	40	0	0	3	2
MI DETROIT	66	42	84	32	54	-4	.8	-.2	.5	6.9	93	9.1	81	86	41	0	0	1	4
MI FLINT	62	39	77	31	50	-6	.9	-.3	.8	6.6	100	7.7	77	91	44	0	2	3	3
MI GRAND RAPIDS	65	43	79	31	54	-4	.8	-.2	.8	6.2	79	8.2	72	88	43	0	2	2	2
MI HOUGHTON LAKE	61	39	77	29	50	-4	.6	0	.6	3.9	65	6.4	71	90	38	0	3	2	1
MI LANSING	64	42	80	31	53	-5	.6	0	.5	6.1	94	7.4	73	93	43	0	2	2	1
MI MARQUETTE	65	37	84	26	51	0	.1	-.8	.1	7.1	82	12.1	93	92	29	0	3	1	1
MI MUSKEGON	62	42	74	31	52	-4	.6	-.1	.6	5.4	74	8.0	68	82	44	0	1	2	1
MI SAULT STE. MARIE	60	36	79	29	48	-2	.7	-.6	.7	4.3	74	7.9	78	90	42	0	3	1	1
MN ALEXANDRIA	72	49	82	39	60	4	0	-.7	0	6.1	117	7.7	113	82	30	0	0	0	0
MN DULUTH	66	43	81	37	54	4	.3	-.4	.3	4.2	71	5.6	68	81	28	0	0	2	0
MN INT'L FALLS	65	41	75	31	53	1	.2	-.4	.1	2.7	68	3.7	65	87	33	0	1	3	0
MN MINNEAPOLIS	70	48	78	39	59	0	1.0	-.3	.8	7.1	129	9.5	132	79	37	0	0	2	1
MN ROCHESTER	67	46	76	38	56	-1	.5	-.2	.3	6.0	100	8.2	106	85	47	0	0	4	1
MS GREENWOOD	83	60	88	54	72	-1	0	-.1	0	15.1	105	23.0	93	79	35	0	0	0	0
MS JACKSON	85	56	91	49	71	-2	T	-.1	T	11.7	81	19.3	78	98	37	1	0	0	0
MS MERIDIAN	83	52	90	44	67	-4	.6	-.3	.6	12.6	89	20.3	83	97	33	1	0	1	1
MO CAPE GIRARDEAU	79	53	87	46	66	—	.2	-.9	.2	10.9	92	16.1	88	90	42	0	0	1	0
MO COLUMBIA	77	52	84	47	65	0	1.5	-.5	.9	14.3	147	18.0	130	89	47	0	0	2	2
MO KANSAS CITY	78	56	85	50	67	2	.5	-.5	.5	12.0	146	14.1	134	76	41	0	0	1	0
MO SAINT LOUIS	79	55	86	45	67	1	.7	-.1	.5	13.3	151	17.4	131	86	33	0	0	2	0
MO SPRINGFIELD	77	55	86	50	66	1	.3	-.7	.2	10.9	109	15.8	112	79	45	0	0	2	0
MT BILLINGS	78	49	89	40	64	8	.1	-.4	.1	2.4	53	4.1	67	54	21	0	0	1	0
MT GLASGOW	78	47	91	37	63	8	.4	0	.3	1.5	68	2.1	70	69	23	1	0	2	0
MT GREAT FALLS	70	44	81	37	57	4	.5	0	.5	2.8	74	4.3	74	76	34	0	0	2	0
MT HAVRE	75	45	87	36	60	5	.2	-.2	.1	.7	27	2.2	63	77	24	0	0	2	0
MT HELENA	71	45	85	35	58	5	.7	-.3	.4	2.7	108	3.1	84	73	31	0	0	3	0
MT KALISPELL	63	40	73	35	51	-1	.5	-.1	.3	3.9	134	5.4	93	85	44	0	0	4	0
MT MILES CITY	80	48	94	40	64	7	.2	-.4	.1	1.6	47	1.7	40	73	26	1	0	2	0
MT MISSOULA	65	40	80	30	53	0	.8	-.4	.4	4.6	159	5.8	112	92	42	0	1	3	0
NE GRAND ISLAND	76	58	82	50	67	6	2.1	1.2	1.0	15.1	229	17.5	219	83	48	0	0	3	2
NE LINCOLN	75	56	84	44	65	3	4.1	3.2	2.4	15.2	211	17.0	189	85	57	0	0	4	2
NE NORFOLK	74	56	81	44	65	4	1.1	-.3	1.0	11.8	207	15.0	208	83	43	0	0	3	1
NE NORTH PLATTE	76	54	83	45	65	7	.1	-.7	.1	7.7	157	9.1	152	76	37	0	0	3	0
NE OMAHA	74	57	83	47	66	4	1.0	0	.5	11.7	165	12.9	142	85	55	0	0	4	1
NE SCOTTSBLUFF	78	52	87	42	65	7	.4	-.2	.4	6.3	158	7.2	147	79	28	0	0	2	0
NE VALENTINE	78	51	87	45	65	7	T	-.6	T	4.7	107	5.2	100	69	29	0	0	0	0
NV ELY	72	35	83	24	54	3	.1	-.2	.1	2.2	88	3.0	73	73	21	0	2	1	0
NV LAS VEGAS	91	62	99	54	77	3	0	-.1	0	0	0	T	0	22	8	5	0	0	0
NV RENO	72	42	87	30	57	2	.1	-.2	.1	.6	40	1.2	31	72	19	0	1	1	0
NV WINNEMUCCA	67	38	85	30	52	-3	1.4	1.2	.7	4.1	256	5.1	146	87	33	0	1	3	2
NH CONCORD	62	32	73	29	47	-9	1.0	-.4	.5	9.5	128	16.5	127	89	32	0	5	4	0
NJ ATLANTIC CITY	66	42	82	37	54	-7	.1	-.6	.1	11.8	131	17.8	109	80	33	0	0	2	0
NM ALBUQUERQUE	84	55	95	49	69	5	T	-.1	T	1.1	110	1.4	74	62	17	1	0	0	0
NM CLOVIS	73	57	89	55	65	-1	4.0	3.5	2.1	4.4	176	4.8	137	80	44	0	0	1	0
NM ROSWELL	78	59	93	58	69	-2	2.0	1.8	.9	2.5	250	2.5	147	80	42	1	0	3	2
NY ALBANY	59	37	71	31	48	-10	.8	-.1	.5	10.5	138	14.8	117	91	42	0	1	4	0
NY BINGHAMTON	56	40	78	36	48	-8	.9	-.2	.7	10.3	129	15.3	114	86	41	0	0	4	1
NY BUFFALO	54	42	62	36	48	-9	.8	-.2	.6	6.9	92	12.1	92	87	53	0	0	4	1
NY NEW YORK	64	49	76	44	56	-6	.2	-.6	.2	12.3	127	18.1	110	80	41	0	0	2	0
NY ROCHESTER	57	40	74	34	49	-8	.6	0	.5	8.0	123	13.1	115	88	47	0	0	3	0
NY SYRACUSE	58	39	77	33	49	-8	.5	-.2	.5	7.5	91	12.2	88	90	44	0	0	4	1
NC ASHEVILLE	75	43	81	36	59	-5	T	-.9	T	13.1	120	21.9	117	94	34	0	0	1	0
NC CHARLOTTE	78	50	86	44	64	-4	0	-.8	0	13.3	136	23.2	130	72	25	0	0	0	0
NC GREENSBORO	76	46	87	38	61	-6	0	-.8	0	10.2	116	19.0	117	74	25	0	0	0	0
NC HATTERAS	70	56	80	45	63	-4	.2	-.8	.2	10.0	109	16.7	90	79	41	0	0	1	0
NC NEW BERN	79	54	90	45	66	-3	0	-1.0	0	13.8	159	22.3	128	81	32	1	0	0	0
NC RALEIGH	76	48	88	36	62	-6	0	-.8	0	11.0	128	21.5	134	81	30	0	0	1	0
NC WILMINGTON	77	54	87	44	65	-6	.7	-.3	.7	10.2	111	17.7	105	83	35	0	0	1	1
ND BISMARCK	73	46	88	37	60	4	0	-.5	0	5.3	156	6.0	143	76	29	0	0	0	0
ND FARGO	74	48	85	35	61	5	0	-.5	0	3.1	76	5.0	96	65	26	0	0	0	0
ND GRAND FORKS	75	45	87	32	60	5	T	-.4	T	3.0	91	4.1	91	70	26	0	1	0	0
ND WILLISTON	76	47	87	36	62	7	.3	-.1	.3	2.6	93	3.5	90	70	25	0	0	1	0
OH AKRON-CANTON	62	42	77	32	52	-7	.7	-.7	.3	9.2	108	13.2	97	93	47	0	1	4	0
OH CINCINNATI	71	43	84	37	57	-6	.1	-.8	.1	10.5	111	13.7	86	80	34	0	0	1	0
OH CLEVELAND	63	42	77	29	53	-6	.9	-.1	.4	9.1	112	14.3	107	90	42	0	1	3	0
OH COLUMBUS	69	42	86	35	56	-6	T	-.8	T	8.4	95	11.4	81	80	35	0	0	0	0

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

Weather Data for the Week Ending MAY 19, 1984

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION								RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE MAR. 4	PCT. NORMAL SINCE MAR. 4	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	TEMPERATURE °F		PRECIPITATION	
																		.01 INCH OR MORE	.50 INCH OR MORE		
DAYTON	69	46	83	37	57	-5	T	-.8	T	8.6	99	12.5	91	69	35	0	0	0	0	0	0
TOLEDO	67	42	86	33	55	-4	.7	0	.6	9.0	123	11.2	97	90	41	0	0	0	3	1	0
YOUNGSTOWN	62	42	76	32	52	-6	.6	-.1	.3	8.3	98	11.9	86	89	42	0	1	3	0	0	0
OK OKLAHOMA CITY	85	63	95	60	74	5	.4	-1.0	.4	7.1	88	8.7	81	78	41	1	0	1	0	0	0
TULSA	81	63	91	58	72	3	.5	-.7	.5	10.7	104	14.0	103	85	47	1	0	2	0	0	0
OR ASTORIA	58	46	62	43	52	0	.7	-.1	.5	14.8	118	30.1	91	91	66	0	0	4	0	0	0
BURNS	63	38	76	25	51	-2	0	-.1	0	3.4	262	4.4	210	77	36	0	1	0	0	0	0
MEDFORD	72	43	84	33	58	0	T	-.3	T	3.3	94	6.0	65	84	36	0	0	1	0	0	0
PENDLETON	67	45	79	41	56	-2	.1	-.2	.1	4.0	154	6.4	112	74	34	0	0	1	0	0	0
PORTLAND	64	49	72	46	57	0	.4	-.1	.1	8.4	124	14.4	82	83	52	0	0	4	0	0	0
SALEM	65	44	71	41	54	-1	.3	-.1	.2	10.3	143	18.0	93	97	53	0	0	3	0	0	0
PA ALLENTOWN	63	42	77	38	53	-8	.3	-.5	.2	12.5	126	17.7	105	80	39	0	0	2	0	0	0
ERIE	58	42	71	34	50	-5	1.2	-.5	.9	8.4	99	12.4	91	86	51	0	0	3	1	0	0
HARRISBURG	65	43	82	37	54	-8	.4	-.4	.3	11.4	134	16.9	115	85	39	0	3	0	0	0	0
PHILADELPHIA	64	44	78	40	54	-9	.3	-.5	.2	12.2	134	17.1	110	79	37	0	0	7	0	0	0
PITTSBURGH	63	41	79	32	52	-8	.8	0	.6	8.6	98	12.1	83	81	35	0	1	4	1	0	0
SCRANTON	60	42	76	37	51	-8	.7	0	.4	9.5	128	13.7	112	78	42	0	0	4	0	0	0
RI PROVIDENCE	62	41	70	38	52	-6	.3	-.5	.2	11.9	118	21.5	116	87	33	0	0	0	0	0	0
SC CHARLESTON	80	57	89	49	69	-4	0	-1.0	0	15.9	175	24.5	150	87	36	0	0	0	0	0	0
COLUMBIA	83	50	90	38	67	-5	T	-.9	T	10.9	104	19.9	101	90	26	2	0	0	0	0	0
FLORENCE	79	53	88	43	66	-5	.2	-.6	.2	13.1	152	20.4	178	78	29	0	0	1	0	0	0
GREENVILLE	81	51	89	44	66	-2	0	-.9	0	15.7	128	25.9	119	79	28	0	0	0	0	0	0
SD ABERDEEN	71	50	80	37	61	3	0	-.6	0	5.1	113	6.5	114	74	35	0	0	0	0	0	0
HURON	74	50	83	41	62	5	.5	-.1	.5	4.8	104	6.4	108	89	44	0	0	1	0	0	0
RAPID CITY	78	47	86	40	63	7	0	-.6	0	4.3	96	4.7	84	74	27	0	0	0	0	0	0
SIoux FALLS	74	49	81	38	62	3	T	-.7	T	8.3	148	10.1	144	85	42	0	0	1	0	0	0
TN CHATTANOOGA	78	49	84	43	64	-4	0	-.9	0	14.5	114	22.2	94	87	32	0	0	0	0	0	0
KNOXVILLE	77	47	84	39	62	-6	.4	-.4	.4	16.4	149	23.2	113	92	39	0	0	0	0	0	0
MEMPHIS	81	60	86	51	71	0	T	-1.1	T	17.7	126	24.1	102	75	34	0	0	1	0	0	0
NASHVILLE	77	49	84	45	63	-5	T	-1.0	T	22.1	180	26.3	121	88	36	0	0	1	0	0	0
TX ABILENE	85	66	91	64	76	3	.3	-.5	.2	1.0	18	2.5	33	76	33	2	0	3	0	0	0
AMARILLO	81	56	92	51	68	2	T	-.6	T	2.1	60	3.1	69	77	32	1	0	3	0	0	0
AUSTIN	86	67	93	64	77	2	1.2	-.2	.5	3.7	51	6.4	55	89	41	2	0	4	1	1	1
BEAUMONT	84	68	87	64	76	0	7.2	6.2	7.2	12.0	129	22.3	127	99	64	0	0	1	1	1	1
BROWNSVILLE	85	72	88	69	79	-1	5.7	5.2	2.8	5.8	176	11.1	179	95	57	0	0	6	2	2	2
CORPUS CHRISTI	82	69	87	66	76	-3	2.1	1.4	1.5	2.5	53	8.9	109	94	65	0	0	4	1	1	1
DEL RIO	83	67	90	64	75	-2	1.7	1.2	.7	1.7	46	3.3	65	84	38	1	0	4	2	2	2
EL PASO	87	58	95	54	73	1	.5	-.4	.3	.9	129	1.2	80	72	22	3	0	3	0	0	0
FORT WORTH	85	66	91	64	76	2	.5	-.5	.5	8.4	99	12.5	102	82	45	-2	0	1	1	1	1
GALVESTON	82	70	88	65	76	0	4.2	3.5	4.0	5.9	89	10.1	83	94	65	0	0	2	1	1	1
HOUSTON	84	65	89	61	75	0	2.8	1.7	1.4	6.0	62	14.2	86	87	49	0	0	3	2	2	2
LUBBOCK	82	58	90	54	70	1	.2	-.4	.1	.7	20	.8	18	83	38	1	0	3	0	0	0
MIDLAND	79	61	89	59	70	-2	3.0	2.5	1.9	3.0	120	3.6	100	82	41	0	0	3	2	2	2
SAN ANGELO	84	64	90	62	74	0	.5	-.1	.2	1.2	29	4.2	74	91	40	2	0	4	0	0	0
SAN ANTONIO	83	67	91	64	75	-1	2.8	1.9	1.0	5.2	80	7.5	89	50	1	0	3	3	3	3	3
VICTORIA	81	67	88	64	74	-2	2.6	1.6	1.3	5.9	89	10.4	93	91	60	0	0	5	2	2	2
WACO	88	67	94	63	77	3	1.4	-.3	.9	5.4	62	7.2	56	85	39	4	0	3	1	1	1
WICHITA FALLS	88	63	94	59	75	4	.2	-.9	.1	3.2	42	4.2	42	76	34	3	0	0	0	0	0
UT BLANDING	79	51	88	43	65	8	0	-.1	0	1.4	88	2.1	50	58	21	0	0	0	0	0	0
CEDAR CITY	79	43	88	32	61	4	.1	-.1	.1	2.9	116	4.4	102	59	14	0	1	1	0	0	0
SALT LAKE CITY	76	52	85	43	64	4	.1	-.2	.1	6.8	142	8.2	108	75	29	0	0	1	0	0	0
VT BURLINGTON	56	37	65	32	47	-9	1.2	-.5	.9	8.7	130	12.5	118	88	39	0	1	5	1	1	1
VA NORFOLK	72	52	90	46	62	-4	T	-.9	T	13.8	159	21.4	131	61	30	1	0	1	0	0	0
RICHMOND	73	44	89	36	59	-7	0	-.8	0	15.5	187	23.6	155	80	30	0	0	0	0	0	0
ROANOKE	74	44	86	36	59	-6	0	-.8	0	11.2	127	17.5	114	75	30	0	0	0	0	0	0
WA COLVILLE	62	45	73	34	53	-2	.4	-.1	.1	6.3	210	9.3	137	86	62	0	0	4	0	0	0
QUILLAYUTE	57	44	59	39	51	-1	3.2	2.2	2.2	24.6	122	57.6	118	96	65	0	0	5	2	2	2
SEATTLE-TACOMA	60	47	65	44	53	-2	.9	-.6	.7	9.2	144	16.7	98	88	53	0	0	4	1	1	1
SPOKANE	63	43	74	38	53	-2	.4	-.1	.2	4.4	157	6.9	99	80	46	0	0	3	0	0	0
YAKIMA	68	41	77	32	55	-3	T	-.1	T	2.4	200	3.4	97	69	32	0	1	1	0	0	0
WV BECKLEY	65	38	79	30	52	-9	T	-.9	T	8.9	92	14.5	85	82	35	0	2	0	0	0	0
CHARLESTON	71	41	86	34	56	-8	T	-.8	T	9.5	100	13.7	82	80	29	0	0	1	0	0	0
HUNTINGTON	71	42	86	35	57	-8	.1	-.9	.1	10.0	101	13.8	85	80	30	0	0	1	0	0	0
PARKERSBURG	69	44	83	34	57	-7	T	-1.0	T	8.9	93	11.6	67	89	37	0	0	2	1	1	1
WI GREEN BAY	67	42	78	33	54	-1	.6	-.1	.5	6.2	94	8.3	93	95	39	0	0	4	0	0	0
LA CROSSE	69	48	79	39	59	-1	.6	-.2	.4	7.3	103	8.3	91	89	36	0	0	1	2	0	0
MADISON	70	43	78	31	57	-1	.4	-.3	.4	6.4	89	8.0	84	79	40	0	1	2	0	0	0
MILWAUKEE	69	47	85	38	58	3	.7	-.1	.3	7.9	107	10.0	93	74	39	0	0	3	0	0	0
WAUSAU	67	45	74	37	56	0	.4	-.4	.4	6.4	91	8.3	93	89	34	0	0	1	0	0	0
WY CASPER	78	43	87	32	60	7	T	-.5	T	4.3	110	6.1	120	71	20	0	0	0	0	0	0
CHEYENNE	72	44	79	40	58	6	.1	-.5	.1	5.7	150	7.1	142	88	24	0	0	0	0	0	0
LANDER	75	45	84	32	60	7	T	-.6	T	4.4	86	6.7	108	55	23	0	1	0	0	0	0
SHERIDAN	77	43	86	36	60	7	T	-.6	T	4.3	96	6.1	100	79	27	0	0	0	0	0	0
PR SAN JUAN	88	73	90	73	81	1	.4	-.9	.3	1.7	18	6.9	47	80	55	1	0	0	4	0	0

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

National Agricultural Summary

May 14 to 20

HIGHLIGHTS: Generally open weather across most of the Nation allowed 4 to 6 days of land preparation and planting. Moderate to heavy rains moved through Texas and spread into New Mexico late in the week, relieving drought conditions in some areas. Beneficial showers pushed northward through the central Plains and into the western Corn Belt. Planting in this region was slowed by rain late in the week but soil moisture was replenished. Cold temperatures returned to northern regions early in the week, causing some limited damage to early blooming fruit crops. Soil moisture was generally adequate to surplus, except from California through most of Texas and across the extreme southern portions of the Gulf Coast States where short supplies were reported.

Corn planting advanced rapidly to 65% completion, lagging the average of 71%. Soybeans were 17% planted, 9 points behind normal. Sorghum was 29% planted compared with the average of 35%. Cotton planting reached 59% completion, 6 points behind average. Winter wheat was in fair to good condition; 30% was headed compared with 33% a year earlier. Spring wheat seeding was 88% complete, 11 points ahead of normal; 52% of the acreage had emerged. Rice was 81% planted, 3 points behind average; 58% of the acreage had emerged. Cool temperatures slowed vegetable growth in northern producing areas; harvesting and planting increased. Apples were in the early bloom stage across the northern producing areas, while peach picking moved into southern South Carolina. Pastures and ranges were rated fair to good, except in the Southwest where poor conditions prevailed. Livestock were in fair to good condition.

SMALL GRAINS: Winter wheat was in fair to good condition with adequate moisture available for development, except in dryland areas of the Southwest and portions of Texas were dry condition left the crop in poor condition. Winter wheat was 30% headed, lagging last year's 33% and the 49% average. Heading was underway in all States except Colorado, Idaho, Montana, Nebraska, Ohio, and South Dakota. Harvesting was 9% finished in Texas compared with the 1% average for this date.

Spring wheat seeding in the five major producing States reached 88%, ahead of last year's 81% and the 77% average. Progress was equal to or ahead of normal in all States except Idaho. The crop had emerged on 52% of the acreage, 1 point behind the normal pace.

CORN: Corn planting in the 17 major producing States was 65% complete, ahead of last year's 60%, but 6 points behind the average. Progress was behind normal in all States except Colorado, Indiana, and Michigan. Warm, dry weather allowed rapid planting throughout the Corn Belt. Producers in Nebraska planted 50% of their acreage during the week, while those in Iowa and Minnesota planted 43% and 42%, respectively. Late in the week, showers across the central Plains and western Corn Belt replenished soil moisture supplies and slowed planting in some areas. Stands began silking in the extreme South.

SORGHUM: Sorghum planting was 29% complete in the seven major producing States, equal to last year but behind the 35% average for this date. Planting lagged normal in all States except Missouri and Texas. Planting ranged from 4% finished in Kansas and South Dakota to 69% complete in Texas. Showers brought some relief to drought-stressed dryland sorghum in Texas. Planting resumed in some areas after receiving much needed rains. The Texas crop was 19% headed.

SOYBEANS: Soybean planting was 17% complete in the 18 major producing States, compared with 13% a year earlier and the average of 26%. Producers in Illinois, Louisiana, and Ohio planted 23%, 19%, and 18%, respectively, of their acreage during the week. Progress was behind normal in all States except Louisiana and ranged from 4% finished in Kentucky to 29% completed in Louisiana.

COTTON: Growers in the 14 major producing States have planted 59% of their acreage, 1 point ahead of a year ago, but 6 points behind the average. Planting picked up after recent rains in Texas. Seven percent of the acreage had squared in Texas, 15% in Arizona, and 1% in Georgia. The crop was setting bolls in the Coastal Bend area and Rio Grande Valley of Texas.

OTHER CROPS: Rice seeding in the five major producing States was 81% finished, compared with 68% a year earlier and the 84% average. Planting was slower than normal in all States except California and Texas. Progress ranged from 72% finished in Arkansas to complete in Texas. Arkansas producers were 10 percentage points slower than normal. Rice had emerged on 58% of the acreage, behind the 66% average.

Peanut planting neared completion in Florida, reached 94% completion in Virginia, 87% in North Carolina, 86% in Georgia, 84% in Alabama, and 17% in Texas.

Less than 1% of the Kentucky burley tobacco crop had been transplanted, compared with the 10% average. In Virginia, flue and fire-cured tobacco transplanting was active but the transplanting of burley plants had not begun. North Carolina growers transplanted 85% of their flue-cured tobacco, equaling the average for this date.

Haying moved northward under generally ideal conditions in the eastern half of the Nation.

FRUITS AND NUTS: Cold temperatures returned to northern fruit producing areas, causing some limited damage to early blooming crops. Apples were beginning to bloom in the Northeast, while peach picking increased in the Southeast. Peach growers in southern South Carolina began harvesting early varieties. Florida citrus producers began increased use of irrigation in all areas. Some new growth was dying back on freeze-damaged trees. Valencia orange picking continued active.

Texas producers harvested some early peach varieties. Fruit size was small due to dry conditions. Pecan trees were past the bloom stage.

Grapefruit picking continued at moderate levels in Arizona. Valencia orange harvesting was complete. Peach picking declined but a few apricots and nectarines were harvested in the Central Valley.

Warm, dry weather aided fruit development in California. Producers harvested early stone fruits, Hass avocado's, Bing cherries, summer grapefruit, and Valencia oranges. The Coachella Valley table grape harvest continued to increase. Limb breakage continued in almond orchards.

VEGETABLES: Vegetable growth was slowed by cold temperatures across northern producing areas early in the week.

Florida's vegetable shipments increased 4% from the previous week. Watermelon harvesting moved northward into major producing areas.

Increased precipitation benefited most Texas vegetables, but halted harvesting operations late in the week. Irrigation of potatoes and onions continued on the High Plains. Arizona producers harvested moderate volumes of carrots and cabbage.

(continued on back cover)

CROP PROGRESS
FOR WEEK ENDING MAY 20

	SOYBEANS % PLANTED		
	1984	1983	AVG.
ALA	21	20	31
ARK	10	6	15
GA	26	33	38
ILL	27	17	36
IND	20	10	25
IOWA	13	15	27
KANS	5	4	10
KY	4	1	15
LA	29	12	23
MICH	15	10	22
MINN	16	14	31
MISS	16	12	21
MO	11	6	19
NEBR	6	10	15
N C	23	31	35
OHIO	20	15	35
S C	11	18	30
TENN	12	3	20
18 STATES	17	13	26

THESE 18 STATES PRODUCED 93% OF THE 1983 SOYBEAN CROP.

	COTTON % PLANTED		
	1984	1983	AVG.
ALA	90	90	91
ARIZ	99	99	97
ARK	84	83	88
CALIF	100	99	100
GA	75	86	88
LA	76	74	80
MISS	88	89	89
MO	89	61	79
N MEX	75	65	81
N C	88	77	92
OKLA	10	15	20
S C	88	96	92
TENN	75	58	80
TEX	36	35	45
14 STATES	59	58	65

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

	WINTER WHEAT % HEADED		
	1984	1983	AVG.
CALIF	100	95	98
COLO	0	2	9
IDAHO	0	0	1
ILL	10	36	50
IND	3	10	40
KANS	10	15	50
MO	30	34	54
MONT	0	0	0
NEBR	0	0	15
OHIO	0	5	2
OKLA	85	70	95
OREG	2	32	13
S DAK	0	0	6
TEX	74	78	85
WASH	2	20	10
15 STATES	30	33	49

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

	CORN % PLANTED		
	1984	1983	AVG.
COLO	75	64	69
GA	97	99	99
ILL	75	65	78
IND	65	50	60
IOWA	78	81	82
KANS	50	60	65
KY	45	18	65
MICH	70	50	62
MINN	62	59	69
MO	60	50	66
NEBR	65	65	70
N C	94	94	97
OHIO	50	45	70
PA	32	39	56
S DAK	28	32	57
VA	80	80	84
WIS	55	49	61
17 STATES	65	61	71

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

	SPRING WHEAT % PLANTED		
	1984	1983	AVG.
IDAHO	82	84	95
MINN	93	88	82
MONT	90	90	85
N D	83	71	65
S DAK	96	95	96
5 STATES	88	81	77

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

	SPRING WHEAT % EMERGED		
	1984	1983	AVG.
IDAHO	60	74	74
MINN	63	59	62
MONT	60	60	50
N D	39	30	38
S DAK	66	84	89
5 STATES	52	50	53

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

	SORGHUM % PLANTED		
	1984	1983	AVG.
COLO	10	11	16
KANS	4	4	10
MO	31	11	30
NEBR	6	8	15
OKLA	10	15	20
S DAK	4	3	13
TEX	69	71	73
7 STATES	29	29	35

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

	RICE % PLANTED		
	1984	1983	AVG.
ARK	72	67	82
CALIF	80	20	67
LA	88	84	91
MISS	84	81	85
TEX	100	97	97
5 STATES	81	68	84

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

	RICE % EMERGED		
	1984	1983	AVG.
ARK	43	40	61
CALIF	45	5	36
LA	80	73	85
MISS	46	46	62
TEX	94	88	91
5 STATES	58	48	66

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

State Summaries of Weather and Agriculture

These summaries provide brief descriptions of crop and weather conditions important on a national scale. More detailed data are available in Weather and Crop Bulletins published each Monday by SRS State Statistical Offices in cooperation with the National Weather Service.

ALABAMA: Temperatures 30° below normal. Rain none to 0.76 in. Soil moisture short to adequate. Fieldwork: 6.0 days. Corn planted 94%, 90% 1983. Soybeans planted 21%, 20% 1983, 31% average. Cotton planted 90%, 90% 1983, 91% average. Peanuts planted 84%, 90% 1983, 84% average. Sorghum planted 37%, 34% 1983, 33% average. Wheat turning color 40%, 24% 1983, 55% average. Hay first cutting 17%. Activities: Routine care of livestock and poultry; spraying fruit trees; planting corn, cotton, soybeans, peanuts, and sorghum; seed bed preparation; and hay harvest. Conditions: Cotton fair; corn mostly fair; peanuts, wheat, pasture and livestock fair to good.

ALASKA: Sunny and mild weather with periods of cloudiness. Scattered showers and winds did little to hinder seedbed preparation, planting and fertilizer most areas of railbelt. Farmers worked long hours and up to 7.0 days favorable for fieldwork. Small grain seeding varied from 25 to 100% complete. Barley seeding made excellent progress with over 70% of the 1984 crop in ground, ahead of last year's 50%. Progress on lighter soils were furthest along. Potato planting averaged 60% complete. Soil moisture supplies ranged from short to mostly adequate or better. Livestock in mostly good to excellent condition.

ARIZONA: Southern portions of very slow moving storm system brought showers, thunderstorms to

eastern two-thirds of State on 14th, 15th. Rainfall amounts mostly trace to 0.33 in. otherwise mostly sunny, hot dry weather prevailed. Maximum temperatures ranged lower 80's at 7,000 ft. level, upper 80's, lower 90's central basins, 95 to 105° lower deserts. Average temperatures 3 to 19° above seasonal normals. Cotton 99% seeded, 99% last year, 97% average. Seeding complete Maricopa, Pinal, La Paz, Yuma Counties. Cochise, Graham Counties 96% seeded, Mohave, Pima counties 99%. Some replanting Central Valley, southeast. Plants above average Yuma County, 15% squaring. Plant conditions average to below average other areas. Alfalfa harvest active west, Central Valley, increased in southeast. Demand good, trading active. Wheat, barley mostly good condition, 90% turning color. Harvest increasing Central Valley, west. Yuma County reported 15% harvested, Pinal County reported 10%. Dry onions, chipper, table potatoes moved in volume, harvest full-swing. Mixed vegetable harvests winding down Salt River Valley. Moderate volumes carrots, cabbage, limited volume greens harvested. Lettuce harvest expected to start by May 23 Willcox area. Grapefruit harvest continued at moderate levels, picking expected to be complete about three weeks. Valencia picking complete. Peach harvest declining, few apricots, nectarines, picked Central Valley.

ARKANSAS: Mild week with temperatures near normals, 30° above normal to 30° below. Light

amounts of rain first and latter portions of week. Most rainfall 1.91 in., least only a trace.

Soil moisture adequate to short in extreme southwest. Days suitable for fieldwork: 6.5. Crop growth moderate pace. Rice condition fair; planted 72%, 67% 1983, 82% average; emerged 43%, 40% 1983, 61% average. Cotton condition fair; planted 84%, 83% 1983, 88% average; emerged 36%, 53% 1983, 76% average. Soybeans good condition; planted 10%, 6% 1983, 15% average. Winter wheat good condition; headed 100%. Corn good condition; planted 81%, 85% 1983, 82% average. Sorghum good to fair condition; planted 71%; 58% 1983, 72% average. Pastures providing average forages. Cattle making good gains.

CALIFORNIA: Temperatures in all areas of the State were above normal with the southern third 30° above normal. The only precipitation occurred in the northern Sacramento Valley, but it was light. The week was warm early, quite cool midweek, then warming at the end. Seasonal precipitation totals still were above normal on the north coast and in the northern Sacramento Valley. The rest of State was below normal.

Rice planting active, 80% planted, 20% last year, 67% average, 45% emerged, 5% last year, 36% average. Shrimp, watergrass control continues. Field corn, sugarbeets progressing with irrigation. Barley, wheat drying rapidly. Winter wheat 100% headed, 95% last year, 98% average. Cotton progressing, cooler temperatures reduced emergence, San Joaquin. Thinning, cultivating, additional fields planted, Riverside. Lima beans normal. Safflower heading, San Joaquin. Warm, dry weather aided in fruit development. Early variety apricots being packed. Harvest of Hass avocados continues, excellent quality, yields. Harvest of Bing cherries increasing. Reported to be generally normal cherry year in northern San Joaquin Valley, however, yields expected to be down in other areas due to lack of winter chill. Fig growers preparing ground under trees for upcoming harvest. Grape vine treated for mildew, worms and hoppers. In San Joaquin Valley, gibberellin sold being applied to grapes intended for table use. Coachella Valley table grape harvest continues to increase. Bloom for kiwifruit complete. The early variety stone fruit harvest underway. In northern part of State, peaches being thinned. Pomegranates still in full bloom. Prunes treated for twig borer. Summer grapefruit harvest begun as desert harvest continues. Valencia orange harvest increasing. Many shipments to export markets reported, however, domestic movement slow at present. Limb breakage continues almonds. Growers tying trees. Artichoke harvest active, cutting back plants started. Asparagus harvest decreasing. Snapbean harvest south coast. Broccoli harvest fairly heavy. Brussels sprouts planting active. Cantaloup harvest underway Imperial Valley. Celery harvest fairly light south coast, started Santa Maria. Sweet corn harvest increasing desert. Lettuce harvest fairly heavy central coast. Market dry onion harvest increasing desert, San Joaquin Valley. Dehydrator onion harvest started desert. Spring potato volume increased Kern district. Strawberry harvest active, diversion to processors increasing. Market tomato harvest increasing desert. Processing tomato harvest to start in desert this week. Foothill range, pastures very dry. Movement livestock summer pastures nearing completion many districts. Summer range growth slow due to cool temperatures.

COLORADO: Typical weather with a few showers daily until the 18th and 19th, when widespread

rain accompanied an upper air disturbance across the State, with up to 1.30 in. reported. Temperatures were 6 to 90° above normal at most locations.

Winter wheat: Good condition, 50% jointed; 67% last year; 72% average. Barley: Good condition, 92% seeded; 96% last year; 93% average, 71% emerged; 85% last year; 83% average. Corn: Good condition, 75% planted; 64% last year; 69% average, 23% emerged; 11% last year, 28% average. Sorghum: Good condition, 10% planted, 11% last year; 16% average. Sugarbeets: 97% planted; 91% last year, 95% average. Days suitable for fieldwork: 5.5. Livestock in good condition, statewide, with condition improving.

FLORIDA: A weakening cold front moved into the north, continued southward, leaving the State by evening of 17th. Cooler air behind the front produced some brief readings in the upper 40's north but mostly 50's elsewhere. Afternoon highs cooled into the 70's. Weekend temperatures recovered into the 60's and 70's at night; 80's and 90's daytime. Rainfall spotty, light.

Soil moisture mostly short except for scattered southern areas which received some rain. Corn, tobacco, peanuts need rain. Irrigation active where available. Peanut, cotton planting continued but nearing completion. Soybean planting slow due to soils. Sugarcane good condition. Cutting small grains for hay about complete. Wheat harvest underway, yields variable. Pasture condition declined considerably due to shortage of rainfall, conditions poor to fair across most of State. Cattle condition declined slightly, ranging from fair to good statewide. Citrus groves dry; much irrigation all areas. Some new growth dying back on freeze damaged trees. Some trees dropping new green fruit as they adjust their crop for next season. Harvest active with good picking weather. Warm, dry weather prevailed vegetable areas. Rainfall limited to few light, widely scattered showers. Overall shipments gained 4% from previous week. Crops gaining were Chinese cabbage, sweet corn, potatoes, radishes, watermelons. Crops with fewer shipments were snap beans, cucumbers, escarole, lettuce, parsley, green peppers, squash, strawberries. Remaining steady were cabbage, carrots, celery, eggplant, tomatoes. Potato digging at peak level Hastings area. Watermelon cutting peaked, Immokalee area. Harvest progressed northward to west central area. Crop progress good, heavy producing north area. Tomato harvest active Palmetto-Ruskin. Sweet corn cutting underway in Zellwood.

GEORGIA: Rainfall limited to southwest third of State. Most amounts under 0.33 in. A few isolated 1.00 in. amounts reported. Most of north and east no rain. Highest temperature 93° at several southern locations on 14th. Lowest temperature 32° morning of 17th at Blairsville. Temperatures 3 to 60° below normal. Average daily open pan evaporation rates between 0.25 and 0.30 in.

Soil moisture 3% surplus, 59% adequate, 34% short, 4% very short. Average days suitable for fieldwork: 5.8. Dry weather makes good week for fieldwork, haying, planting and spraying major activities. Corn 97% planted, 99% last year, 99% average, silked 1%, 1% last year, 5% average, condition 3% excellent, 61% good, 36% fair. Cotton 75% planted, 86% last year, 88% average; squaring 1%, 0% last year, 3% average; condition 2% excellent, 44% good, 50% fair, 4% poor. Grain sorghum 45% planted, 38% last year, 40% average; condition 70% good, 26% fair, 4% poor. Peanuts 86% planted, 92% last year, 92%

average; blooming 0%, 1% last year, 2% average; condition 69% good, 27% fair. Soybeans 26% planted, 33% last year, 38% average; condition 2% excellent, 68% good, 30% fair. Watermelons 96% planted, 97% last year, 97% average; condition 53% good, 42% fair, 4% poor. Wheat 99% headed, 98% last year, 5% harvested, 1% last year, 5% average; condition 5% excellent, 67% good, 26% fair. Peaches 3% harvested, 1% last year, 3% average; condition 23% excellent, 63% good, 12% fair. Pastures 9% excellent, 69% good, 21% fair. Rye condition 5% excellent, 68% good, 26% fair. Other small grains 4% excellent, 63% good, 29% fair, 4% poor. Cattle 6% excellent, 79% good, 14% fair. Hogs 6% excellent, 79% good, 14%.

HAWAII: Island weather continued to favor crop development. Temperatures were normal on most days, but did climb a degree or two above normal highs on a couple of days. Skies were mostly sunny after a few brief morning showers that were mainly restricted to the interior sections of all islands.

Irrigation remains heavy in the major growing areas. Spraying for disease and insect control also reportedly heavy. Supplies of head cabbage heavy with head size and quality being fair to good. Chinese cabbage production moderate to heavy. Banana supplies will be steady while papaya production declining seasonally.

IDAHO: A strong cold front moved into the State bringing much cooler temperatures at the beginning and middle of the week. Temperatures moderated toward the normal range by the end of the week. Precipitation was generally above normal across the State except for the southeast. The wettest spot was Grangeville with 1.63 in. The driest location was Lewiston with 0.17 in.

Farmers had 5.0 days suitable for fieldwork. Spring wheat seeded advanced to 82% compared to 84% last year and the 94% average. Barley reached 65% seeded versus 70% in 1983 and the 18% average. Sugarbeet emergence rose to 82% versus 86% last year. Dry peas planted reached 78% complete. Potatoes climbed to 58% planted compared to 61% in 1983 and the 68% average. Corn planting advanced to 62% versus 70% for last year and average. Winter wheat growth continued to be slower than last year. Crop and pasture growth were slowed by cool temperatures.

ILLINOIS: Temperatures 40 above normal to 20 below normal. Precipitation 0.01 to 3.33 in.

Soil moisture 66% adequate, 22% surplus, 12% short. Days suitable for fieldwork: 5.3. Wheat condition 6% excellent, 64% good, 25% fair, 5% poor. Winter wheat 10% headed, last year 36%, average 50%. Oat condition 3% excellent, 62% good, 31% fair, 4% poor. Corn planted 75%, last year 65%, average 78%. Soybeans planted 27%, last year 17%, average 36%. Alfalfa condition 20% excellent, 71% good, 9% fair. Alfalfa first crop cut 5%, last year 2%, average 9%. Pasture condition 19% excellent, 75% good, 6% fair.

INDIANA: Temperatures 10 above normal north to 20 below normal south. Highs mid to upper 80's. Lows in low to mid 30's. Soil temperatures averaged low to mid 60's. Rainfall averaged 1.60 to 2.00 in. north, 1.00 to 1.30 in. central, 0.00 to 0.20 in. south.

Fieldwork average 5.3 days. Spring cropland 87% tilled, 1983 89%. Corn 65% planted, 1983 50%, average 60%. Corn 10% emerged, 1982 25%, average 40%. Soybeans 20% planted, 1983 10%, average 25%. Soybeans 2% emerged, 1983, 1983 3%, average 10%. Oats 100% seeded, 1983 97%, average 100%. Clover 95% seeded. Wheat fair to good

condition. Wheat 3% headed, 1983 10%, average 40%. Wheat 14 in. tall, 1983 19 in., average 17 in. Alfalfa 5% cut first time, 1983 1%, average 5%. Pastures fair to mostly good.

IOWA: Warmest week this spring; temperatures 2 to 60 above normal. Precipitation near or above normal.

Days suitable for fieldwork: 6.2. Fertilizer applications 90% complete; 89% last year. Conventional tillage operations 90% complete, 89% last year, 98% normal. Conservation tillage operations 87% complete; 87% last year. Winter wheat crop condition 6% excellent, 51% good; 35% fair; 8% poor to very poor. Pasture conditions 8% excellent; 65% good; 25% fair; 2% poor. Corn acreage planted 78% complete; 81% last year; 82% normal. Corn emerged 12% complete; 20% last year; 37% normal. Soybean acreage planted 13% complete; 15% last year; 27% normal. Oat acreage sown 100% completed. Oat acreage emerged, 88% complete; 81% last year; 93% normal. Topsoil moisture conditions 11% surplus; 76% adequate; 13% short. Subsoil moisture conditions 37% surplus; 60% adequate, 3% short. Slower livestock movement.

KANSAS: Precipitation varied greatly with averages from 0.04 in. south central to 1.11 in. southwest. Temperatures averaged from 660 northwest to 700 northeast, 70 above normal northwest to 10 above normal southeast.

Wheat condition good except poor northwest. Wheat 10% headed, 15% last year, 50% average. Light to moderate infestations of tan spot. Wheat streak mosaic and soil-borne mosaic also present. Corn 50% planted, 60% last year, 65% average. Sorghum 4% planted, 4% last year, 10% average. Soybeans 5% planted, 4% last year, 10% average. Light to moderate infestations of alfalfa weevil. Pastures and rangeland good to excellent. Surface and subsoil moisture adequate. Days suitable for fieldwork: 5.0.

KENTUCKY: Weather mostly fair skies and little or no precipitation. Chilly during first half of week with overnight lows 14th through 16th dipping into 30's. Average temperatures about 3 to 50 below normal. Precipitation non-existent in most cases leaving departure from normal of 0.75 in. to around 2.00 in.

Days favorable for fieldwork averaged 4.8. Farmers able to make rapid land preparation and planting progress as fields dried. Bottomlands still too wet, and some still underwater. Soil moisture 73% adequate, 27% surplus. Lowest reported surplus of season. Corn 45% planted, 18% last year, 65% average. Some replanting done. Corn 20% planted emerged. Some shift corn to other crops expected due to late spring. Soybeans 4% planted, 1% last year, 15% average. Tobacco plants still small, 57% under 2 in. tall, only 12% over 4 in. Need continued sunshine, warmer nights. Less than 1% burley set, same last year, average 10%. Less than 1% dark tobacco set. Wheat 65% headed, ahead of last year, behind 1982. Wheat silage being cut, yields fair. Pastures good condition. Some flood damage to pastures and hay fields. First hay cutting underway.

LOUISIANA: Dry conditions relieved by widespread weekend rains. Average temperatures 30 below normal southwest, near normal elsewhere. High 940, low 540.

Soil moisture short. Days suitable for fieldwork: 6.4. Activities included cotton, rice, sorghum, soybeans, corn and sweetpotato planting; spring plowing; hay cutting; wheat harvesting; and fertilizer, herbicide, and insecticide applications. Spring plowing 95% 1984, 91% 1983. Rice planting 88% 1984, 84%

1983, 91% average; emerged 80% 1984, 73% 1983, 85% average; condition good. Corn planting 96% 1984, 95% 1983, 97% average; emerged 93% 1984, 93% 1983, 96% average; condition fair to good. Cotton planting 76% 1984, 74% 1983, 80% average; emerged 58% 1983, 55% 1983, 62% average; condition fair to good. Soybean planting 29% 1984, 12% 1983, 23% average; emerged 15% 1984, 7% 1983, 13% average; condition good. Sorghum planting 85% 1984, 78% 1983, 61% average; emerged 74% 1984, 66% 1983, 52% average; condition fair to good. Sweetpotato planting 34% 1984, 27% 1983, 51% average; condition fair to good. Sugarcane condition poor to fair. Winter wheat condition good; turning color 90% 1984, 59% 1983, 79% average; harvested 11% 1984, 3% 1983, 7% average. Vegetable condition fair to good. Strawberry harvest over. Hay first cutting 39% 1984, 26% 1983, 36% average. Pasture and livestock condition fair to good.

MARYLAND AND DELAWARE: Maryland: Cool and dry week. Temperatures averaged 3 to 7° below normal. Precipitation was light ranging from mostly none on the Lower Shore to 0.72 in. at Oakland.

Small grains in mostly good condition. Barley headed 95% equal to 1983. Rye 95% headed; 100% last year. Wheat 30% headed; 50% last year. Oats 40% headed; 5% 1983. Field corn 65% planted; 75% 1983 and average. Soybean planting 5%, 15% 1983 and average. Tobacco planting 15% complete, 10% 1983 and average. Snapbean, tomato, cucumber and cantaloupe acreage planted at 80, 60, 60 and 74%, ahead of 1983 progress of 70, 55, 55 and 10%, respectively. Lima bean planting at 15% and sweet corn planting at 70% behind 1983 level of 70 and 75%, respectively. Watermelon planting progress at 60% equal to 1983. First cuttings of alfalfa hay 15% cut and other hay 10% cut.

Delaware: The week was dry and cool. Precipitation was scattered and light. Precipitation averaged 0.03 in. Temperatures were 5 to 7° below normal.

Days suitable for fieldwork: 6.3. Corn and vegetable planting the main activity. Small grains in good to excellent condition. Barley headed 90%; 95% last year. Rye headed 100%; 100% 1983. Wheat headed 15%, 60% last year. Field corn 70% planted, 75% 1983, 85% average. Soybeans 20% planted; just beginning 1983, average 15%. Snapbean, watermelon and tomato planting at 40, 70, 50%; ahead of 1983's 10, 60, 20%, respectively. Sweet corn, cucumber and cantaloupe planting at 60, 30, and 50%, respectively, was behind the 1983 progress of 75, 70 and 60%. Subsoil and topsoil moisture was adequate statewide. Hay cutting began in south, a little behind the normal pace.

MICHIGAN: Cold temperatures prevailed across the State. Moderate amounts of precipitation accompanied the cool temperatures except in northern areas where precipitation was light.

Planting active most of the week, but temporarily halted by late week rains. Statewide 5.0 days suitable for fieldwork. Moisture supplies rated mostly adequate. Corn planting 70% complete, 50% last year, 62% average. Soybeans 15% planted, 10% last year, 22% average. Oats 95% seeded, 90% last year, 92% average. Winter wheat condition mostly good. Fruit crops developing slightly behind normal. Vegetables progressing normally.

MINNESOTA: High pressure dominated at beginning and end of week, resulting in clear skies and cool temperatures. At midweek upper level disturbances resulted in warmer temperatures, scattered light showers, and isolated thunderstorms. Temperatures averaged 2 to 6° above normal. High: 85°, low: 27°.

Precipitation averaged 0.12 to 0.66 in. below normal. Greatest weekly total: 0.85 in.

Corn planting became extremely active. Soybean planting was moderately active. Small grain planting was nearly completed. Emergence started out behind normal, but soils warmed rapidly during week, so began to catch up. Alfalfa hay condition was good. Livestock were being moved to pastures. Days suitable for fieldwork: 4.5. Topsoil moisture: 4% short, 70% adequate, 26% surplus. Planted: Field corn 62%, 1983 59%, normal 69%; soybeans 16%, 1983 14%, normal 31%; spring wheat 93%, 1983 88%, normal 82%; oats 93%, 1983 91%, normal 88%; barley 90%, 1983 84%, normal 76%; sunflowers 34%, 1983 22%, normal 35%. Emergence: field corn 4%, 1983 5%, normal 18%, spring wheat 63%, 1983 59%, normal 62%.

MISSISSIPPI: Temperatures near normal, extremes 40 and 94°. Greatest 24-hour rainfall 1.76 in.

Soil moisture adequate northern half, short southern half of State. Planting progressed rapidly. Fieldwork 6.1 days suitable, 1.5 1983, 3.3 days. Plowing 82% completed. Cotton fair; 88% planted, 89% 1983 and average; 35% emerged, 51% 1983, 59% average. Soybeans fair; 16% planted, 12% 1983, 21% average; 3% emerged, 4% 1983. Rice fair to good; 84% planted, 81% 1983, 85% average; 46% emerged, 46% 1983, 62% average. Corn fair to good; 93% planted, 86% 1983, 90% average; 74% emerged, 59% 1983. Wheat good to fair; 99% heading; 100% 1983, 13% ripe, 6% 1983; 1% harvested, 0% 1983, 2% average. Hay 15% harvested, 15% 1983. Sorghum 58% planted, 38% 1983, 40% average. Sweetpotatoes 35% planted, 34% 1983, 38% average. Watermelons 85% planted; peanuts 48%. Peach condition and pasture condition both good to fair.

MISSOURI: Near normal temperatures covered the State. Rainfall at the beginning and end of the week. Northeast received over four in. while the Bootheel averaged less than 0.10 in. The rest of the State averaged about 0.50 in.

Planting progress jumped with 4.8 days suitable. Corn 60% planted, 50% last year, 66% normal. Soybeans 11% planted, 6% last year, 19% normal. Grain sorghum 31% planted, 11% last year, 30% normal. Cotton 89% planted, 81% last year, 79% normal. Winter wheat 30% headed, 34% last year, 54% normal. Winter wheat condition 9% excellent, 30% good, 34% last year, 54% normal. Winter wheat condition 2% excellent, 30% good, 58% fair, 10% poor. Pasture condition 6% excellent, 61% good, 32% fair, 1% poor. Topsoil moisture supplies 18% surplus, 78% adequate, 7% short.

MONTANA: Moderate to heavy thunderstorms passed over western portions of State early in week and over northeast section at midweek. Rainfall amounts ranged from 0.25 to 1.00 in. South central and southeast areas were dry. Temperatures normal west of the Divide, 4 to 8° above normal east of the Divide including southwest, 90° + temperatures observed in about half the area east of the Divide.

Soil moisture mostly short except west and south central portions. Fieldwork: 4.8 days suitable. Winter wheat fair condition east and north central, good elsewhere. Planting completed: Barley 90%, oats 80%, sugarbeets 60%, dry beans 40%, corn 55%, potatoes 25%. Spring wheat planted 90% 1984, 90% 1983, 85% average; emerged 60% 1984, 60% 1983, 50% average. Winter wheat headed 0%, 0% 1983, 0% average. Calving and lambing virtually complete. About 50% of livestock moved to summer ranges. Hay and range growth continued slow due to cool weather.

NEBRASKA: Temperatures 9° above normal west, 4° above east. Precipitation 0.25 in. Panhandle and west, 1.50 in. east.

Winter wheat mostly fair. Wheat jointing 65%, 85% last year, 80% average. Wheat heading less than 1%, 0% last year, 15% average. Corn planted 65%, 65% last year, 70% average. Sorghum planted 6%, 8% last year and 15% average. Soybean planted 6%, 10% last year and 15% average. Alfalfa mostly good to fair. Days suitable for fieldwork were 6.0.

NEVADA: Period characterized by wide swing in weather patterns--varying from winterlike to near-record heat. Temperatures averaged near normal northwest and far south, 3 to 5° above northeast and central. Southern and central areas extended their prolonged dry spell, while light to moderate precipitation fell north.

Low night temperatures slowed vegetative growth early in period. Scattered showers improved summer grazing prospects northern areas. Most cattle and sheep now on spring and summer grazing areas.

NEW ENGLAND: Average temperatures 7 to 12° below normal. Low of 21° at Canaan, VT. on the 17th; high of 75° at Lowell, MA. on the 19th. Precipitation over coastal northern regions averaged over 0.50 in., as high as 1.00 in. at Waterbury, VT.

Days suitable for fieldwork: 4.0. Progress generally 4 days behind schedule. Maine potatoes 30% planted, 25% last year, 60% normal. Field corn 30% planted, 20% last spring, 40% normal. Sweet corn 25% planted. Emergence light due to cool, cloudy conditions. Hay rated in good to fair condition. Fruit trees coming into bloom; poor pollinating conditions widespread.

NEW JERSEY: Temperatures averaged 7° below normal. Extremes were 31° on the 17th and 88° on the 20th. Weekly rainfall averaged 0.76 in. north, 0.30 in. central and 0.24 in. south. The heaviest 24-hour total was 0.94 in. on the 20th to 21st. Estimated soil moisture, in percent of field capacity, averaged 96% north, 84% central and 70% south. Four inch soil temperatures averaged 56° north, 61° central and 62° south.

Fieldwork: 6.0 days suitable. Below normal temperatures slowed plant growth early in the week but warmer weather returned later. Main farm activities: Planting of spring crops and harvesting vegetables. Pasture and hay growth good.

NEW MEXICO: Rains fell in varying intensity across the entire State. Resulting boost to moisture should help dryland grains and range forage. Cotton planting continued. Lettuce harvest continued, but slowly due to low prices. Onions in good condition. Cotton planted: 75%, last year 65%, average 81%.

NEW YORK: Temperatures 10° below normal. Precipitation normal.

Wet fields and cool weather hindering fieldwork and crop development. Oat planting 26% complete, 39% 1983, 73% average. Corn planting 8% complete, 20% 1983, 35% average. Pasture condition good. Hay condition good. Wheat condition fair to mostly good. Vegetable planting progressing slowly. Hudson Valley tree fruit petal fall stage. Western N.Y. sweet cherries petal fall stage. Apples late pink to early bloom. Tart cherries, peaches, pears full bloom.

NORTH CAROLINA: Temperatures averaged below normal 6 to 7° statewide, except for the coast line which was near normal. Precipitation ranged from none to 0.65 in., which was below normal in most areas.

Soil moisture: 4% short, 91% adequate, 5% surplus. Days suitable for fieldwork: 5.9. Condition: Wheat 8% fair, 84% good, 8% excellent. Oats 2% poor, 11% fair, 83% good and 4% excellent. Tobacco 2% poor, 48% fair and 50% good. Irish potatoes 4% fair, 92% good, 4% excellent. Peaches 73% good and 27% excellent. Plantings: Corn 94%, 1983 94%, average 97%. Flue cured tobacco 85%, 1983 73%, average 85%. Burley tobacco 3%, 1983 4%, average 14%. Cotton 88%, 1983 77%, average 92%. Peanuts 87%, 1983 63%, average 77%. Sorghum 37%, 1983 31%, average 41%. Soybeans 23%, 1983 31%, average 35%. Sweetpotatoes 22%, 1983 22%, average 21%. Major farm activities: Transplanting tobacco and sweetpotatoes, planting corn, cotton, peanuts, soybeans and sorghum, haying, applying chemicals and herbicides, cultivating corn and tobacco.

NORTH DAKOTA: Warm, windy weak with gusts to 40 mph and precipitation light. Temperatures ranged from 7° above normal southwest to 30° above normal north central. Extremes 93° west central and northeast on 16th and 17th to 31° north central on 17th. Precipitation ranged from trace to 0.20 in.

Strong winds caused soil erosion and depleted topsoil moisture to slightly below normal. Some damage to crops caused by blowing soil. Topsoil moisture 41% short or very short, 59% adequate. Small grain planting ahead of normal. Hard red spring 83% complete compared to 71% last year and average of 65%. Other crop comparisons to last year and average: Durum 70, 53, 55; barley 88, 71, 64; and oats 77, 66, 62. Sugarbeets 100% planted, average 87%. Planting of corn and potatoes ahead of average at 42% and 64% complete respectively; sunflower 12%, ahead of last 2 years.

OHIO: Temperatures 2 to 7° below normal. Highs upper 60's into 80's. Lows mid- to upper 40's. Precipitation sparse until late in period. Range from none to 2.50 in.

Soil moisture 0% short, 75% adequate, 25% surplus; 5.0 days suitable for fieldwork. Corn planted 50% 1984, 45% 1983, 70% average, condition fair. Soybeans planted 20% 1984, 15% 1983, 35% average. Winter wheat headed 0% 1984, 5% 1983, 2% 1979-83, condition fair. Pasture condition good.

OKLAHOMA: Temperatures averaged 2° above normal Panhandle, north central, and east central to 4° above normal central and southwest. Rainfall ranged 0.04 in. west central to 1.52 in. northeast.

Mild temperatures and light weekend showers aided wheat growth development. Some southwestern areas still dry and crops severely stressed and precipitation needed for later-maturing varieties to produce fair crop. Favorable weather provided good conditions for development of wheat heads. Small grains headed to soft dough stage. Wheat good, pastures and ranges good-to-fair, and livestock good condition. Wheat headed: 85%; 70% 1983; 95% average. Sorghum planted: 10%; 15% 1983; 20% average. Cotton planted: 10%; 15% 1983; 20% average.

OREGON: Temperatures warmed to normal statewide. Slight precipitation totaled less than 1.00 in. west of Cascades and less than 0.02 in. elsewhere.

Winter wheat in good condition, 2% headed, 32% last year, 13% average. Barley Yellow Dwarf, Septoria and rust continue to afflict many fields. Spraying slow due to weather. Spring grain seeding nearly complete. Light frost damage to spring grains and alfalfa in Klamath

County. Peppermint fertilization and oat hay planting in central areas. Field corn seeding in Malheur County; some frost damage. Sugarbeet thinning. Summer fallow work in east. In west, grass seeding and disease control spraying slowed by rains. Grass hay being cut; spraying for Tansy. Winter pears look good in Hood River and Jackson Counties. Bartletts in Hood River have a light set. Pesticide and herbicide application in both areas. Union County cherries just past bloom; some frost damage. Cherries in Willamette Valley setting fruit. Peach crop in the Valley looks good. Prune set generally poor. Filberts setting; insecticide and boron foliar applications. Walnuts in early bloom. Willamette Valley marionberries and boysenberries blooming. Strawberries past full bloom. Cranberry disease spraying mostly complete. In Hermiston-Boardman area, last cultivation of early potatoes, late potatoes emerging. In central areas potato planting in full swing. Klamath County potatoes about half planted. Malheur County potato planting just finished, earliest plantings emerged. Malheur County onions in one or two leaf stage. Willamette Valley vegetable plantings continue behind schedule. Livestock in generally good condition. Cool, wet spring prolonged good grass growth along Columbia Basin. At higher eastern elevations, grass growth slowed by weather. Western pastures have been muddy.

PENNSYLVANIA: A large, cold high pressure system caused the average temperature to be a full 8° below the normal. Nighttime lows dipped into the 20's in a few locations in the north and west. Precipitation was light and scattered showers. Some mountain stations saw snow flurries.

Days suitable: 4.0. Moisture surplus to adequate. Activities: Plowing; spraying; harvesting rye for green chop and silage; and planting oats, corn, soybeans, alfalfa, potatoes, sweet corn, cabbage and tomatoes. Plowing 66% complete, last year 78%, average 87%. Soybeans 6% planted, last year 9%. Oats 82% planted, last year 87%. Potatoes 65% planted, last year 65%. Corn 32% planted, last year 39%, average 56%. Barley 15% headed, last year 27%. Wheat 20% in boot, last year 45%. Hay stand conditions good to fair. Feed from pastures mostly average. Peaches 83% in full bloom or past, last year 95%. Cherries 86% in full bloom or past, last year 95%. Apples 50% in full bloom or past, last year 87%.

PUERTO RICO: Island average rainfall 1.43 in. or 0.22 in. below normal. Highest weekly total 6.63 in. Highest 24-hour total 4.22 in. Temperature averaged about 80 to 79° on coasts and 73 to 71° interior divisions. Mean station temperature ranged from 81.1 to 64.7°. Extremes 93 and 55°.

SOUTH CAROLINA: Weather practically rainless. Clear skies and unusually low humidities favored rapid drying of soils. Cooler than normal with near record low temperatures midweek; near normal temperatures by weekend.

Soil moisture mostly adequate to short. Days suitable for fieldwork: 5.7. Corn condition fair, 95% planted, 98% last year, 100% average. Cotton condition fair, considerable replanting necessary due to blowing sand, 88% planted, 96% last year, 92% average. Soybean planting in full swing, 11% planted, 18% last year, 30% average. Wheat condition mostly good, 61% turning color, 47% last year, 63% average. Tobacco condition mostly good, some premature blooming. Peach thinning continues, condition good, very light harvest underway. Watermelon condition fair to

good, early plantings setting fruit. Tomato conditions good to excellent, maturity ahead of last year. Hay harvest very active, yields excellent.

SOUTH DAKOTA: Average temperature was 3 to 8° above normal. Extremes: 91 and 35°. Little precipitation fell during the week.

Topsoil moisture was adequate in most of the State with some surplus and some short areas reported. Calving 92% and lambing 90% complete. Corn planted 28%, 1982 32%, average 57%. Spring wheat planted 96%, 1983 95%, average 96%. Spring wheat emerged 66%, 1983 84%, average 89%. Sorghum planted 4%, 1983 3%, average 13%. Winter wheat headed 0%, 1983 0%, average 6%.

TENNESSEE: A cold front moved through the State early the 14th causing scattered thundershowers in the west. A high pressure system dominated the weather through the 19th. Scattered thunderstorms developed centrally and in the west on the 20th. Temperatures averaged about normal in the west and averaged 5 to 10° below normal in the middle and eastern sections of the State. Rainfall amounts were generally light with isolated heavier amounts confined to the west.

Farmers averaged 5.6 days of fieldwork. Soil moisture 25% surplus, 75% adequate. Cotton planted 75%, 1983 58%, average 60%. Corn planted 60%, 1983 48%, average 76%. Soybeans planted 12%, 1983 3%, average 20%. Tobacco set 51%, 1983 7%, average 25%. Wheat headed 90%, 1983 81%, average 90%. Alfalfa hay, percentage of 1st cutting completed 50%. Pastures and livestock rated in mostly fair to good condition. Fruit trees in mostly fair to good condition.

TEXAS: First part week, slow moving cold front edged northern Panhandle triggering showers. Trough South Texas scattered shower. On 16th. Upper level disturbance West Texas scattered thunderstorms much Texas through 18th. Heavy thunderstorms developed ahead cold front moving through State over the weekend. Temperatures averaged 2° below normal. Low Plains, Cross-Timbers, Blacklands, East Texas. Normals Edwards Plateau, South central Texas, Coastal Bend, Upper Coast. Temperatures 1 to 3° above normal. High Plains, Trans-Pecos, South Texas, Lower Valley. Precipitation averaged 0.20 in. below normal. Low Plains. Cross-Timbers, Blacklands normal. Remainder State above normal.

Crops: Rain showers varying degrees temporary relief many drought stricken areas. Rain aid planting dryland crops High Plains, South Central Texas. Rain helped maturing grain sorghum, cotton. Rains West Texas relief severe drought conditions, temporarily slowed livestock movement. Cross-Timbers, Blacklands missed most rain this time. Additional moisture more beneficial. Grain sorghum planting irrigated land progressed well High Plains. Showers possible begin planting dryland fields. Low Plains, Cross-Timbers, land preparation completed, producers ready begin planting. Blackland sorghum looks fair; rain needed soon. Central Texas; plants small, should benefit recent rains. Coastal Bend, Rio Grande Valley, sorghum continues head. Rains helped stressed dryland crop. Sorghum virtually insect these areas. Corn progress well High Plains. Most fields emerged this time. Blackland corn fair; rain couple of weeks beneficial. Unfortunately, recent rains too late fields Central, South Texas. Many fields abandoned; borderline fields make light crop. Coastal Bend corn fair, continues tassel, small ears. Rio Grande Valley fields good recent rains alleviating irrigation needs. Statewide corn condition rated at 61% of

normal, compared with 74% a year ago. Irrigated cotton planting High Plains progressing well. Dry planting picked up recent rains. Some early fields drying out from winds. Cotton producers Cross-Timbers awaiting adequate soil moisture begin planting. Blackland fields look good producers continue spray insect. Trans-Pecos, early cotton emerging. Planting in full swing when ground dries slightly. Cotton beginning square central portions State, setting bolls Coastal Bend, Rio Grande Valley. Crop virtually insect free. Wheat harvest increased Blacklands. Early yields good. Irrigated wheat High Plains good. Dryland wheat benefitted recent rains, still behind normal. Central Texas harvest continues fair, poor yields. Oat harvest Central Texas low yields. Statewide wheat condition rated at 59% of normal, compared with 80% a year ago. Current reported conditions 4% excellent; 25% good; 46% fair; 24% poor and 1% failure. Recent rains helped rice crop, continues look good. Peanut planting slow dry conditions. Land preparation complete, planting major scale begin adequate soil moisture received. Early planted soybeans look good. Planting progressing rapidly High Plains.

Cotton planting 36% 1983, 35% 1983, 45% average; squaring 7% 1983, 2% 1982, 8% average. Rice emerged 94% 1984, 88% 1983, 91% average. Sorghum planted all purposes 69% 1984, 71% 1983, 73% average; headed 19% 1984, 6% 1983, 12% average; turning color 0% 1984, 0% 1983, 1% average. Wheat headed 74% 1984, 78% 1983, 85% average; turning color 34% 1984, 25% 1983, 77% average; harvested for grain 9% 1984, 1% 1983, 1% average. Oats harvested for grain 15% 1984, 8% 1983, 7% average. Corn planted for all purposes 99% 1984, 96% 1983, 98% average. Peanuts planted 17% 1984, 16% 1983, 18% average. Soybeans planted 17% 1984, 4% 1983, 9% average. Sunflowers planted 17% 1984, 20% 1983, 23% average.

Commercial vegetables: Rio Grande Valley, harvest cantaloup, honeydews, watermelons began; continued steady until rain halted operations. Peppers good progress, nearing harvest. Citrus hedging, pruning continues. Winter garden, onion harvest continues. Cucumber harvest underway Coastal Bend, some drought stress reported. High Plains, irrigation potatoes, onions continues. Most vegetables good progress. Trans-Pecos, cabbage harvest begin trucks can enter fields. Onions look good. Harvest early varieties peaches continues. Smaller fruit reported. Peaches statewide developing rapid rate. Irrigated peaches look good while other only fair. Spraying pecan nut casebears continues, slower pace. Not too many infestations reported present. Many trees past bloom stage. Dry weather may reduce years total crop. The outlook fair.

Range and livestock: Recent rains helped range, pasture conditions Trans-Pecos region. This the hardest hit drought area State. More rainfall needed ensure further progress pastures and ranges. Elsewhere, hay crops cut, yields significantly down. Rain Central Texas help green up ranges. Marketing livestock continues; slower pace. Grazing still limited, prospects look better.

UTAH: Precipitation mostly zero to light except moderate at isolated mountain stations. Maximum temperatures averaged 8° above normal, ranging normal to 13° above. Minimums averaged 6° below normal, ranging normal to 15° above. Warm temperatures increased snow melting resulting in extensive flooding in much of northern 2/3 of State.

A total of 6.3 days suitable for fieldwork. Spring wheat 90% planted, 70% up and growing.

Barley 89% planted, 67% growing. Oats 81% planted, 44% up. Winter wheat and alfalfa average 7 in. high. Some early forecasts of excellent sets of sweet cherries and peaches. Livestock doing well on new range feed. High winds, however, depleted soil moisture on rangelands southern part of State.

VIRGINIA: Dry spell begun previous period now well developed. Scanty rain this period of no value. Partly cloudy and cool with minimum temperature records equaled and exceeded. Scattered light frost did little or no damage.

Excellent week for farming with 5.5 days suitable for fieldwork. Topsoil moisture rated at 90% adequate, 10% short. Many farmers catching up to normal planting schedule. Corn planting 80% complete, 80% last year, 84% average. Corn crop rated good. Soybean planting 18% complete, 19% last year, 24% average. Peanut planting approaching completion, 94% complete, 94% last year, 89% average. Planted peanut stands look good. Flue-cured tobacco transplanting 47% complete, 38% last year, 50% average. Fire-cured tobacco transplanting starting, 13% complete, 17% last year, 24% average. No reported transplanting of burley or sun-cured tobacco. Fruit tree spraying active, thinning underway. Excellent hay cutting week. Small grains in good condition, some spraying for cerealeaf beetle and aphids. Livestock in good condition. Sheep sheering active.

WASHINGTON: Cool, unstable air associated with upper level disturbances produced rainfall nearly everyday west of Cascades. Measurable rain also observed over northeast corn of State.

Winter wheat remains average to above average condition most areas. Dry beans and lima bean being seeded. Some corn fields being replanted. First cutting hay gaining momentum. Application of apple thinning sprays continues. Chelan County, long bloom period in apples created timing problem for other cultural practices. Strawberry planting continues. Fruit rot may be concern this year for strawberry growers. Green pea fields Skagit County being sprayed for weed control. Spring planting vegetable crops continues as conditions permit. Asparagus harvest continues in east. Range seeding underway in Douglas County. Dairymen continue to green chop and put up grass silage. More warm weather needed for grass growth, particularly eastern counties. Winter wheat headed 2% 1984, 20% 1983, 10% average.

WEST VIRGINIA: Temperatures were well below normal across the State with frost in many locations on morning of 16th and 17th. The weekend brought warmer temperatures in the 70 to 80° range. The high temperature was recorded in Burlington at 87° while the low was 23° in Canaan Valley and Elkins. Rainfall was well below normal with most areas receiving less than 0.10 in.

Soil moisture adequate. Days suitable for fieldwork 4.6. Main activities: Soil preparation, planting corn and sowing oats. Feed supplies adequate to short.

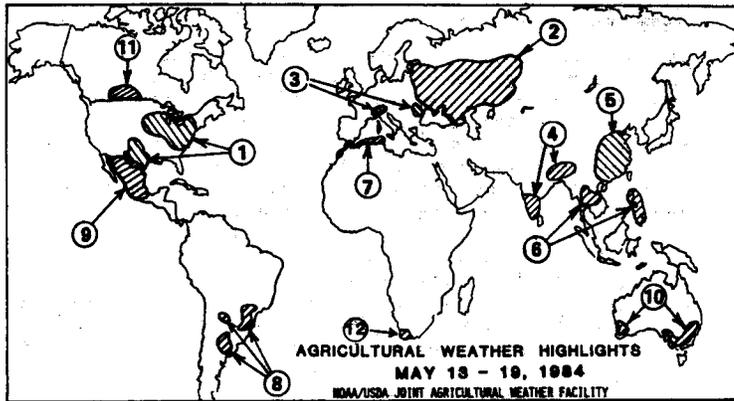
WISCONSIN: A quick transition to summer took place. Highs which were in the 60's at weeks start were in the 80's by the 18th while lows which started in the 20's and 30's moved up into the 50's and 60's. Precipitation was less than normal, the week started dry, showers moved across the State the 17th and 18th while the 19th and 20th were dry. Accumulations ranged from 0.25 in. in the north to 0.75 in. over the south.

Days suitable for fieldwork was estimated at 5.6. Corn planting increased to 55% complete as

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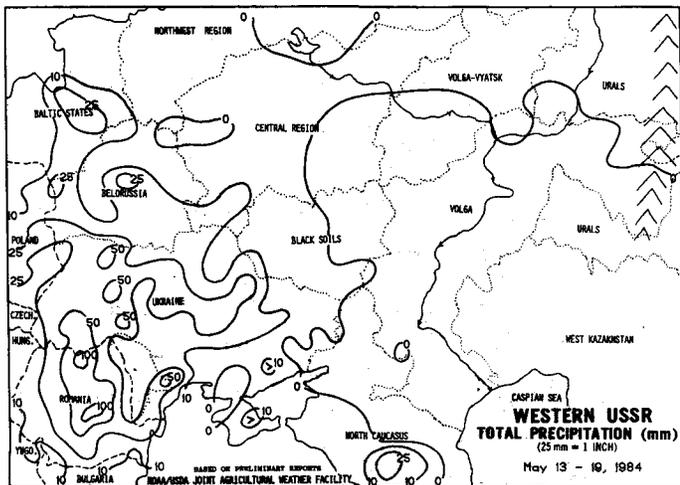
International Weather and Crop Summary

May 13 to 19

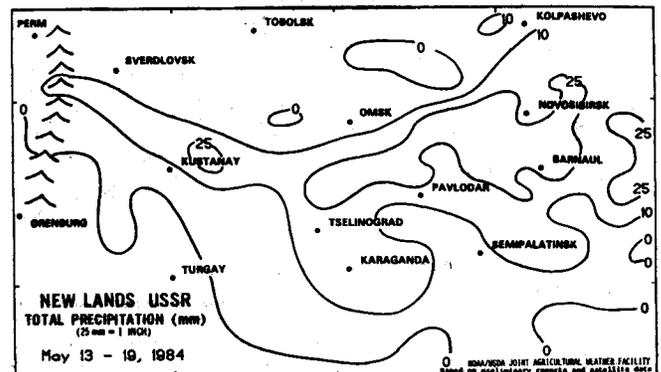


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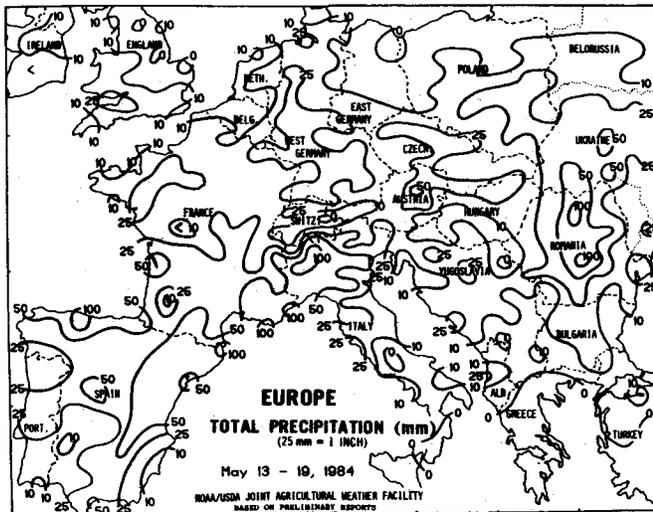
1. UNITED STATES ... Rains finally fall over West and South Texas, helping drought-stricken crops but more rain is needed. Sunny, drying weather favors rapid planting across the Corn Belt. Unusual cold over the eastern third of the Nation slows crop development and freezes some early fruit tree blooms in the eastern Great Lakes.
2. WESTERN USSR ... Widespread showers benefit crops in west European USSR. Continued unseasonably warm, dry conditions are stressing winter grains in the late vegetative stage and the early growth of spring sown crops in east European crop areas. Spring wheat planting begins in the New Lands.
3. EUROPE ... Showers benefit most crop areas but localized flooding is possible in parts of Romania and northern Italy.
4. SOUTH ASIA ... Premonsoon activity remains moderate while the wet season approaches.
5. EASTERN ASIA ... Dry weather returns to the northern wheat region. Extremely heavy rains cause flooding in southern rice areas.
6. SOUTHEAST ASIA ... Rice and corn planting benefit from moderate rains in Thailand. Favorable showers continue in the Philippines.
7. NORTHWESTERN AFRICA ... Late-season showers cover winter grains in Morocco. Most winter grains are maturing across the region and dry weather would be beneficial.
8. SOUTH AMERICA ... Mostly dry weather aids late stages of harvesting of corn, sorghum, and sunflowers in Argentina and soybeans in Brazil. Over 50 percent of Argentina's cotton and 25 percent of its soybeans are harvested.
9. MEXICO ... The rainy season comes on strong—wetting the eastern half of the nation. Many drought-stricken crops are helped, but rains are too late for others.
10. AUSTRALIA ... Rain aids wheat planting in Western Australia but dry weather limits topsoil moisture for wheat planting in southern and eastern crops areas. Rain is needed in the next few weeks for early crop establishment.
11. CANADA ... Widespread showers aid spring crop planting and emergence in the Prairies. About 70 percent of Saskatchewan's spring wheat is sown. More rain is needed in the south.
12. SOUTH AFRICA ... Heavy rains and localized flooding damage winter crops. As much as 170mm of rain falls in the winter area of Cape Province.



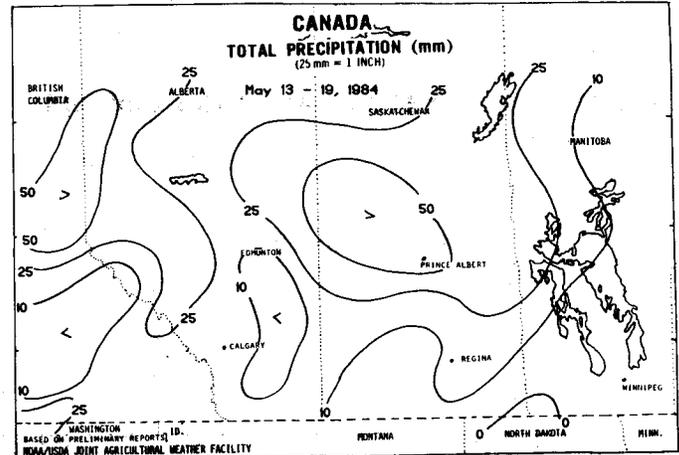
USSR...Widespread showers, around 25 mm, continued to benefit crop areas in the southern Baltic States, Belorussia, and the western Ukraine. In contrast, unseasonably warm, dry weather continued to cover crop areas in the North Caucasus, eastern Ukraine, Black Soils, Volga Valley, and southern Urals. Daytime highs around 30° C covered these areas on most days and reports indicated gusty winds and blowing dust in the North Caucasus. The unfavorable weather conditions are stressing winter grains in the jointing stage and newly emerged spring crops, such as corn and spring barley across the south. Winter grains normally enter the heading stage in late May, but the warm, dry weather may be accelerating the crop's growth in the south. That portion of east European USSR which has experienced unfavorable dryness historically accounts for about 40 percent of the USSR's total grain production. Rain is needed in this area to improve yield prospects.



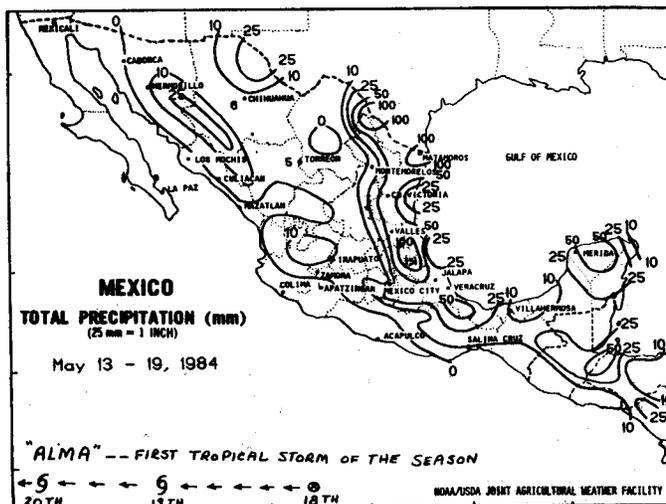
In the New Lands beneficial showers continued to cover spring wheat areas over the eastern half of the region. In the west, light precipitation continued the below-normal pattern which has covered the area since April. Spring wheat planting is beginning across the region and will intensify soon. Overall, moisture conditions for germination appear favorable in the east, but a drying trend is developing in the west. Weekly temperatures were above normal in the west and below normal in the east.



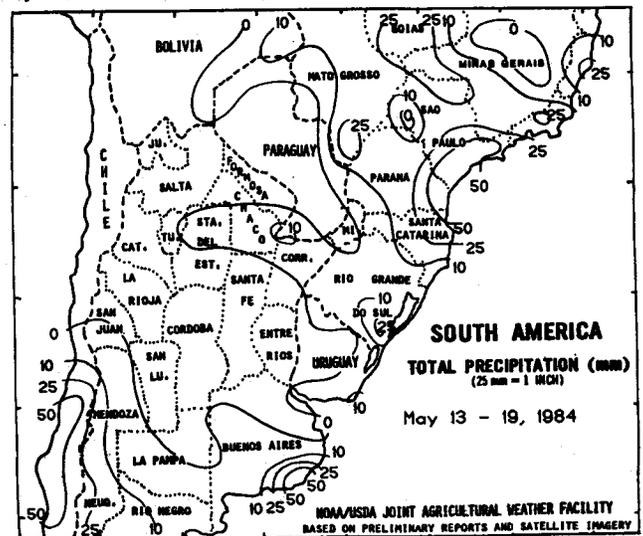
EUROPE...Showers covered the entire region benefiting winter grains and spring sown crops. In the north, the rain improved conditions for spring sown crops, particularly in Poland where April rains were below normal. Wet weather continued to cover crop areas in Romania, and localized flooding is possible, particularly in north-central crop areas where rainfall amounts as high as 100 mm were reported. Crop areas in Czechoslovakia and Hungary continued to receive beneficial showers, improving the low moisture situation. Wet weather increased soil moisture conditions for corn seeding in southern France, and benefited winter grains approaching the heading stage in northern Italy. Weekly temperatures were below normal in the west and near to above normal across the remainder of the region.



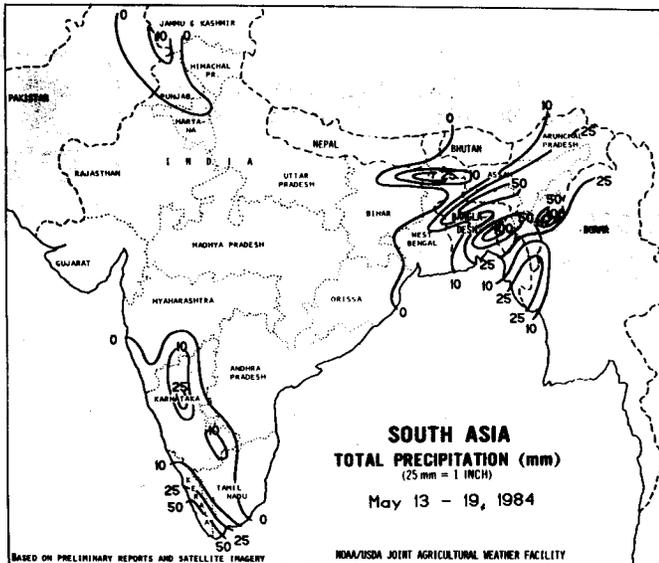
CANADA...Widespread showers covered nearly all of the Prairie grain belt, but the highest weekly amounts of rain tended to fall across northern crop areas. The moisture was extremely beneficial for emergence of spring crops in southern portions of Saskatchewan and Alberta. Less than 10 mm of rain fell in much of the south; more rain will be needed soon because soil moisture is limited. Soil moisture is reported to be adequate to good in northern areas where the heavier rains fell. Spring plantings progressed throughout the region with about 70 percent of Saskatchewan's spring wheat already sown. Rapeseed is about 30 percent planted in Saskatchewan. These figures indicate significant planting progress in the province despite the shower activity.



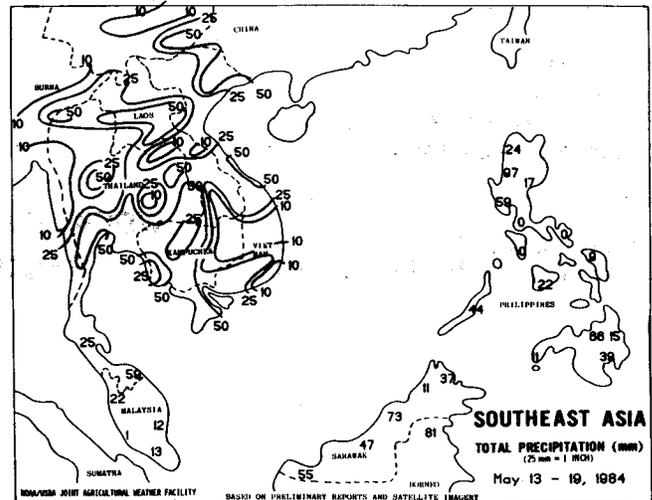
MEXICO...The rainy season strongly developed as unusually heavy precipitation fell along the eastern half of the nation. A few sections measured over 100 mm (4 inches). The rains should greatly help some of the drought-stricken orchards, rangeland vegetation, and immature crops. However, nonirrigated corn and grain sorghum in the northeast are probably too near maturity to be helped by the late-arriving showers. Showers also formed over the northwestern mountain watersheds and should improve water supplies for some west coast crops. The intertropical convergence zone offshore of the southern Mexico Coast was very active, and "Alma" the first tropical storm of the season formed on the 18th.



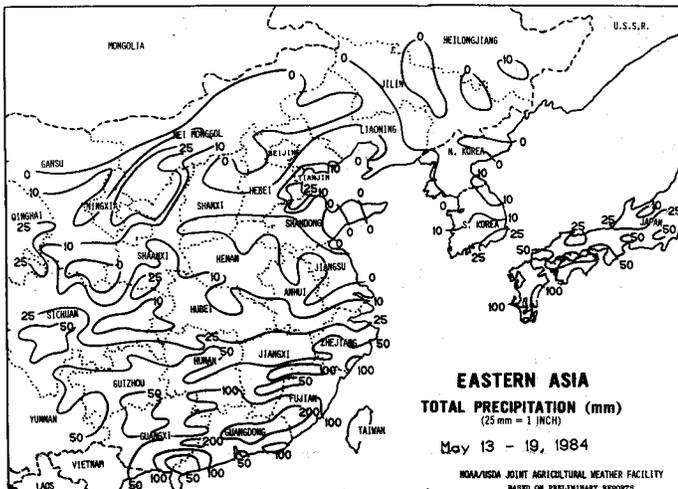
SOUTH AMERICA...Mostly dry weather covered the crop areas of Argentina, while scattered rainfall occurred over Brazil's center-south region. Harvesting of corn, sorghum, and sunflowers in Argentina and soybeans in Brazil is in the late stages. The dry weather aided the late harvesting of Argentina's cotton crop in the north, where earlier rains damaged the maturing crop. Soybeans are over 25 percent harvested, and the weather in recent weeks has aided maturation. While dry weather helps the harvest, it also lowers topsoil moisture for winter wheat planting. Subfreezing minimum temperatures and frost occurred during the first part of the week from Argentina into Rio Grande do Sul before a warming trend began on Wednesday. Wheat is being planted in southern Brazil while coffee is being harvested further north. Showers likely interfered with the coffee harvest in southern Minas Gerais and surrounding areas.



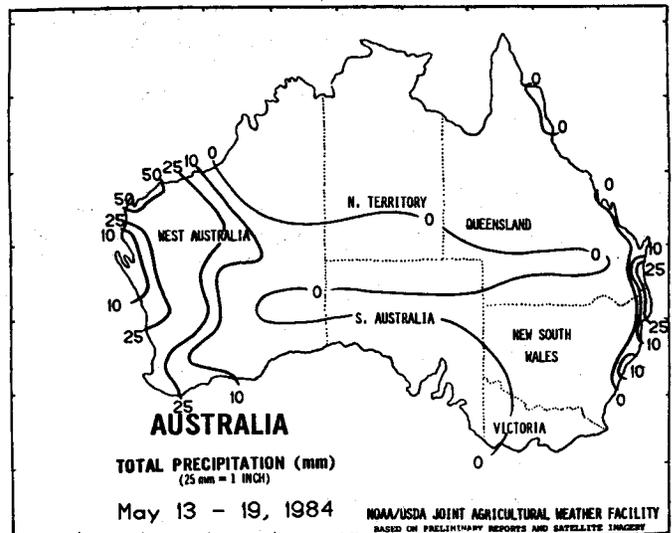
SOUTH ASIA... Premonsoon showers continue at a reasonably normal pace. Moderate to heavy rain in northeastern India supplied additional moisture for rice planting, which begins before the normal wet season in the rest of the country. Heavy rain, as much as 170 mm, in eastern Bangladesh likely caused flooding and possible crop damage. However, earlier dryness in the area slowed fieldwork and planting. Precipitation increased slightly in peninsular India this week. Seasonably warm temperatures have reduced the high soil-moisture levels which resulted from earlier above-normal rains. Mostly dry conditions prevailed in the north where wheat harvesting is nearing completion.



SOUTHEAST ASIA... Moderate shower activity continued in most of Indochina this week, however, southern Vietnam and eastern Kampuchea were dry. Rainfall was beneficial in south-central and central Thailand where rice and corn planting continue. Parts of northern Thailand were relatively dry but heavy rain last week improved reservoir levels. Temperatures were seasonable throughout most of Thailand. Precipitation in the northern Philippines continues to supply moisture for rice planting. However, southern Luzon was dry this week. Scattered showers and moderate temperatures favored rice in the vegetative stage in the southern Philippines.



EASTERN ASIA... Following relatively dry weather in the southern coastal provinces last week, precipitation inundated the area this week. Very heavy rain, 200-400 mm, fell in Guangdong and Fujian causing flooding and possible crop damage. Beneficial amounts of rain fell in the remaining rice areas. Light to moderate showers in the Yangtze Valley slowed summer crop planting early in the week, but dry weather followed. Dry weather returned to the North China Plain this week, following moderate rain last week. More moisture is needed but the dry weather favored corn and soybean planting. Winter wheat is in the grain filling stage in the north and would benefit from additional rain. Temperatures were cooler than normal this week in eastern China, but a favorable warming trend in the northeast aided early growth of corn and soybeans.

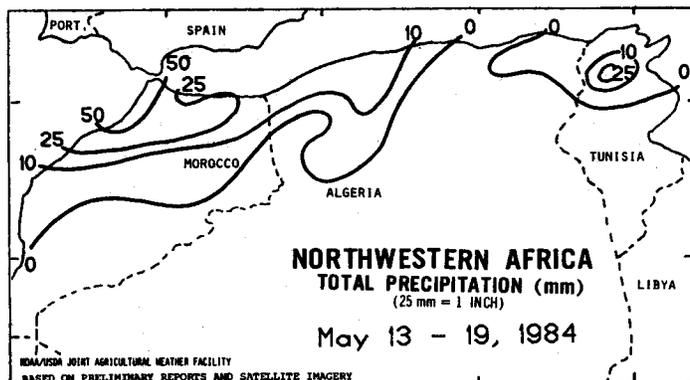


AUSTRALIA... Significant showers, producing a weekly average of about 25 mm of rain, covered Western Australia's wheat area. Recent rain in the west has provided ample moisture for wheat planting in most areas. However, light rain (less than 10 mm) fell in wheat areas of southern Australia; most eastern crop areas were dry during the week. Planting is underway in Australia's wheat belt; the recent dry weather aided land preparation but topsoils have become too dry in Queensland, New South Wales, Victoria, and South Australia. About 70 percent of Australia's wheat crop is produced in these four states. The wheat yield potential could be adversely affected if significant planting rains don't come by mid-June. Thus, rainfall during the next 3 weeks will be especially important for early crop establishment.



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NORTHWESTERN AFRICA...Late-season showers, 15-50 mm, covered winter grains in Morocco and northwestern Algeria. The early May rains in these areas slowed the potential for yield declines, but dry weather is now needed for grain maturation. Elsewhere, generally dry weather favored winter grains, normally in the maturing stage, in northeastern Algeria and northern Tunisia. Harvesting of the winter grain crop normally begins by late May, coinciding with the dry season.

(continued from p. 9)

The harvest of other crops was finished. California growers harvested a wide variety of vegetables. Dry conditions allowed active harvesting in all areas of the State. Strawberry picking continued active with increased diversion to processors.

PASTURE AND LIVESTOCK: Heavy snow melt in the Rocky Mountains slowed movement of livestock to summer ranges in some areas. Texas ranges received beneficial rain, but need additional moisture to sustain growth. Pastures and ranges were in mostly fair to good condition, except in the Southwest and portions of Texas where conditions were poor.

(continued from p. 16)

compared to 49% last year and an average of 61%. Oats planting was 83% complete, compared to 89% last year and a 91% average. Soil moisture was reported as 3% short, 73% adequate and 24% surplus. Fruit trees were blossoming in southern areas.

WYOMING: Most stations well above average temperatures. Significant precipitation spotty. Northwest mountains and southeast received most. Topsoil moisture adequate 82% State.

Days suitable for fieldwork: 6.0. Spring planting lags behind normal. Spring wheat planted, 70%; emerged, 45%. Oats planted, 70%; emerged, 45%, barley planted, 80%; emerged, 60%. Sugarbeets planted, 95%; emerged, 40%. Corn planted, 60%; emerged, 5%. Potatoes planted, 30%. Dry beans planted, 30%. Winter wheat fair to good condition. Livestock mostly good condition. Spring calving 90% complete. Farm flock: Ewes lambed 95%; shorn 85%. Range sheep; ewes lambed 75%; shorn 80%. Calf, lamb losses normal most areas. Above normal losses in area hard hit by April storm. Ranges, pastures good condition. Spring grazing prospects good.

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