

# WEEKLY WEATHER AND CROP BULLETIN

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

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

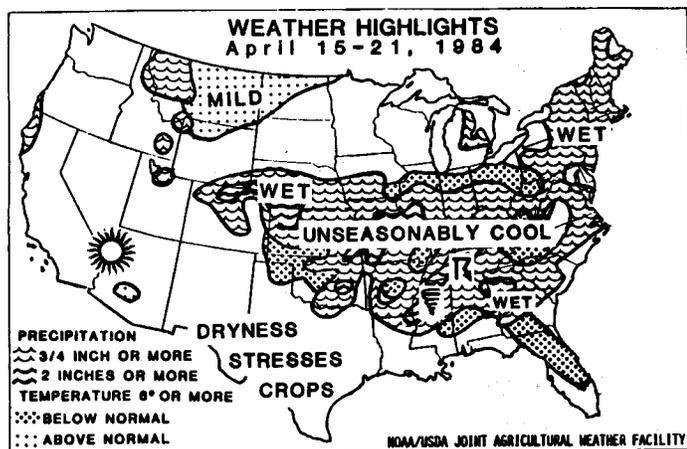
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April 24, 1984

## National Weather Summary

April 15 to 21



England. Cooler weather pushed into the Northwest but unusually warm weather continued from the Southwest through the northern Rockies.

WEDNESDAY...Heavy thunderstorms developed in the lower Mississippi Valley and lighter rain continued from the eastern Great Lakes and Ohio Valley to Virginia, Maryland, and New England. Cooler temperatures pushed through the Northwest to the northern Rockies, but warm weather remained from the Southwest into south-central Canada.

THURSDAY...A line of thunderstorms, accompanied by heavy rain and a few tornadoes, developed from central Mississippi to South Carolina. Lighter showers covered most of the area east of the Mississippi River. A winterlike storm gathered strength in the central Rockies and spread rain, snow, and gusty winds over much of the West.

FRIDAY...The winter storm, after causing heavy snow in Utah, moved into the Plains and dropped up to 2 feet of snow in eastern Colorado. Showers and thunderstorms covered the central Plains and moved to the central Mississippi River. Severe weather, including tornadoes and heavy rain, was scattered throughout the area. Lighter rain reached eastward to the Carolinas.

SATURDAY...Moderate to heavy showers and thunderstorms, accompanied by severe weather, continued in the central Plains and spread through the lower two-thirds of the Mississippi River Valley and the Ohio Valley. Local flooding occurred throughout the area. Temperatures were much cooler behind the storm.

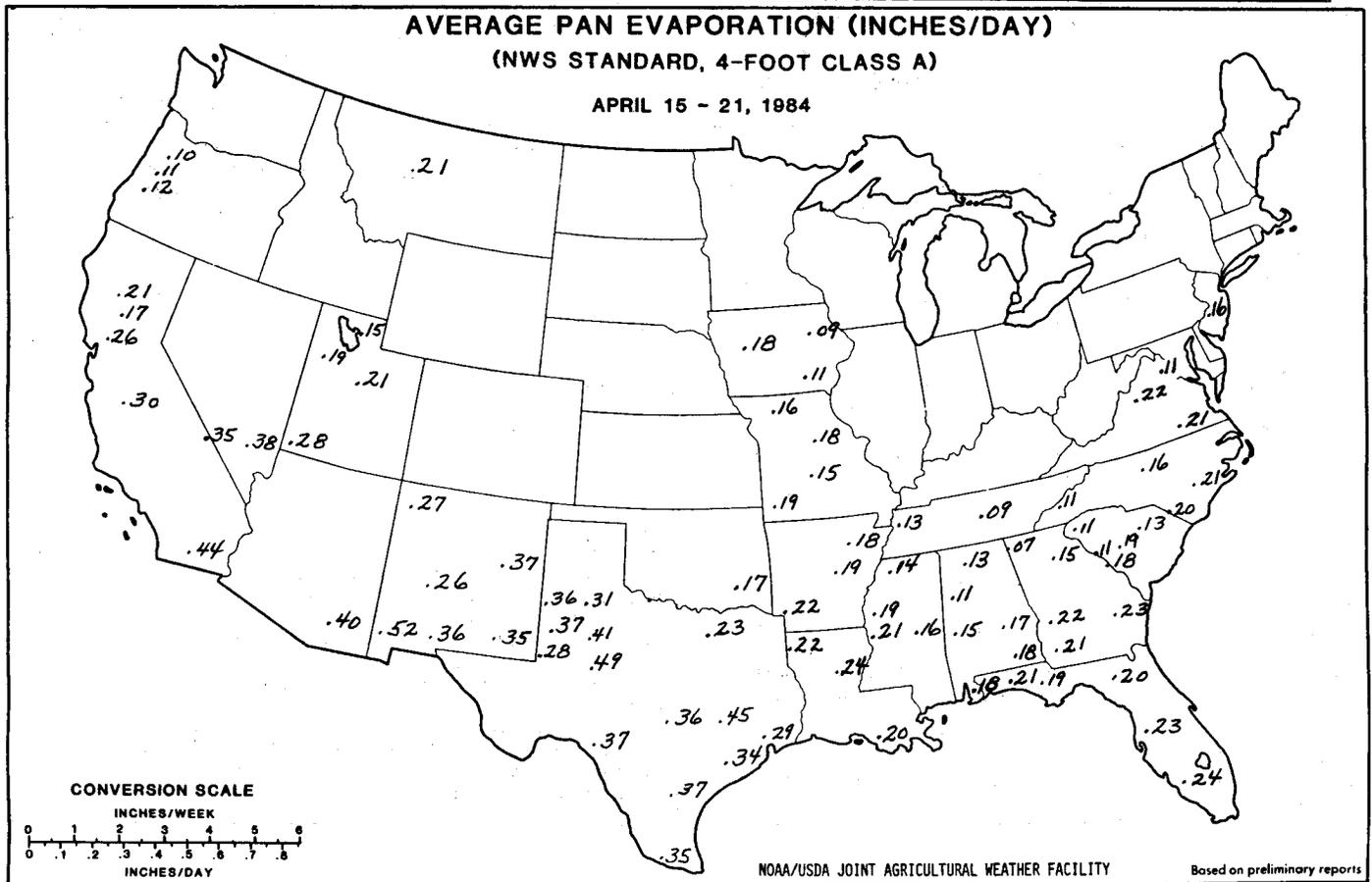
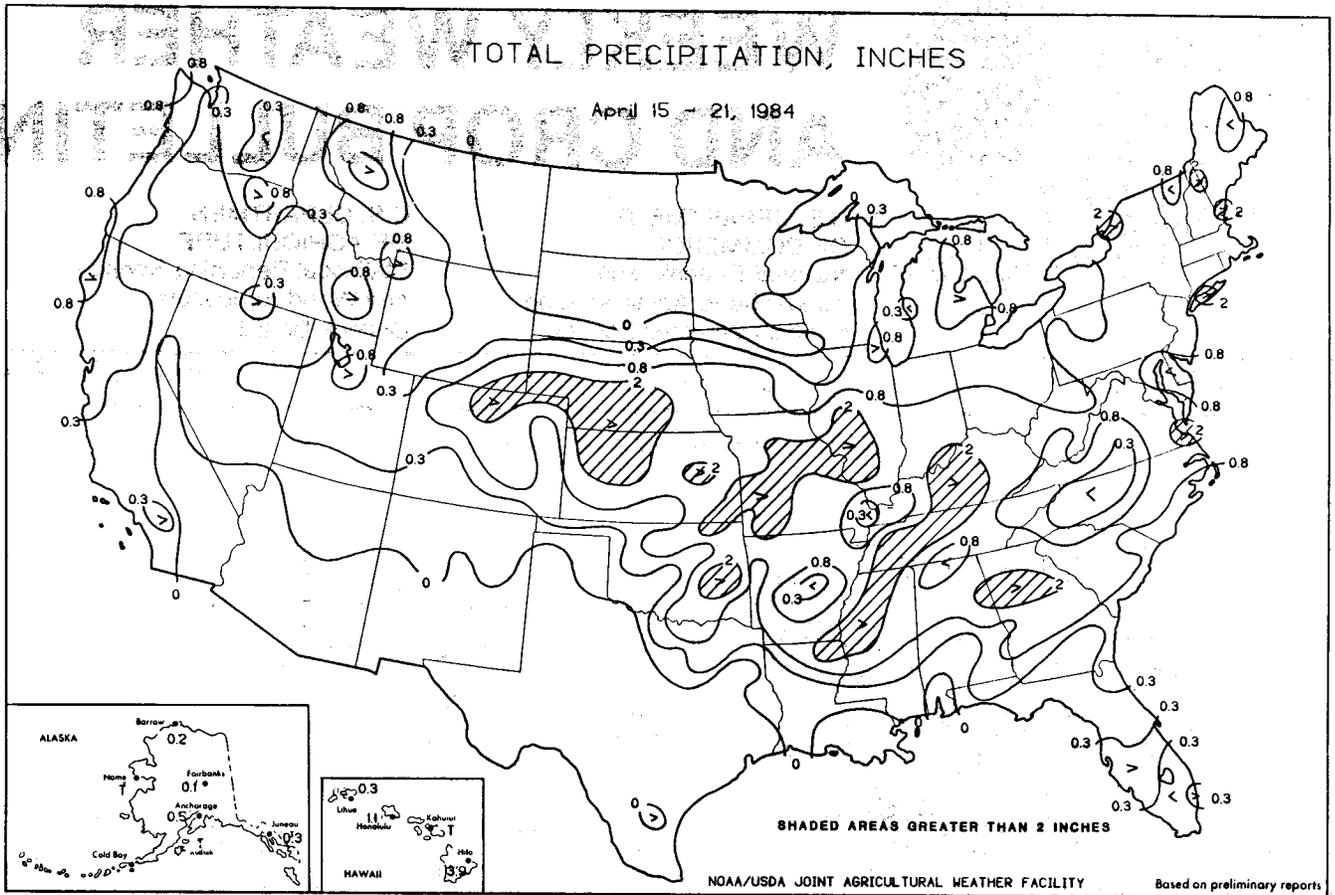
HIGHLIGHTS: Cool, wet weather dominated the area from the central Plains to the east coast. Average temperatures were 7 to 9 degrees cooler than normal in the central Plains and from the Ohio Valley to the Southeast. Heavy snow fell in the northern and central Rockies, and showers and thunderstorms were frequently accompanied by severe weather from the central Plains to the Southeast and along the east coast. No rain fell in southern Texas, the Southwest, or the northern Plains.

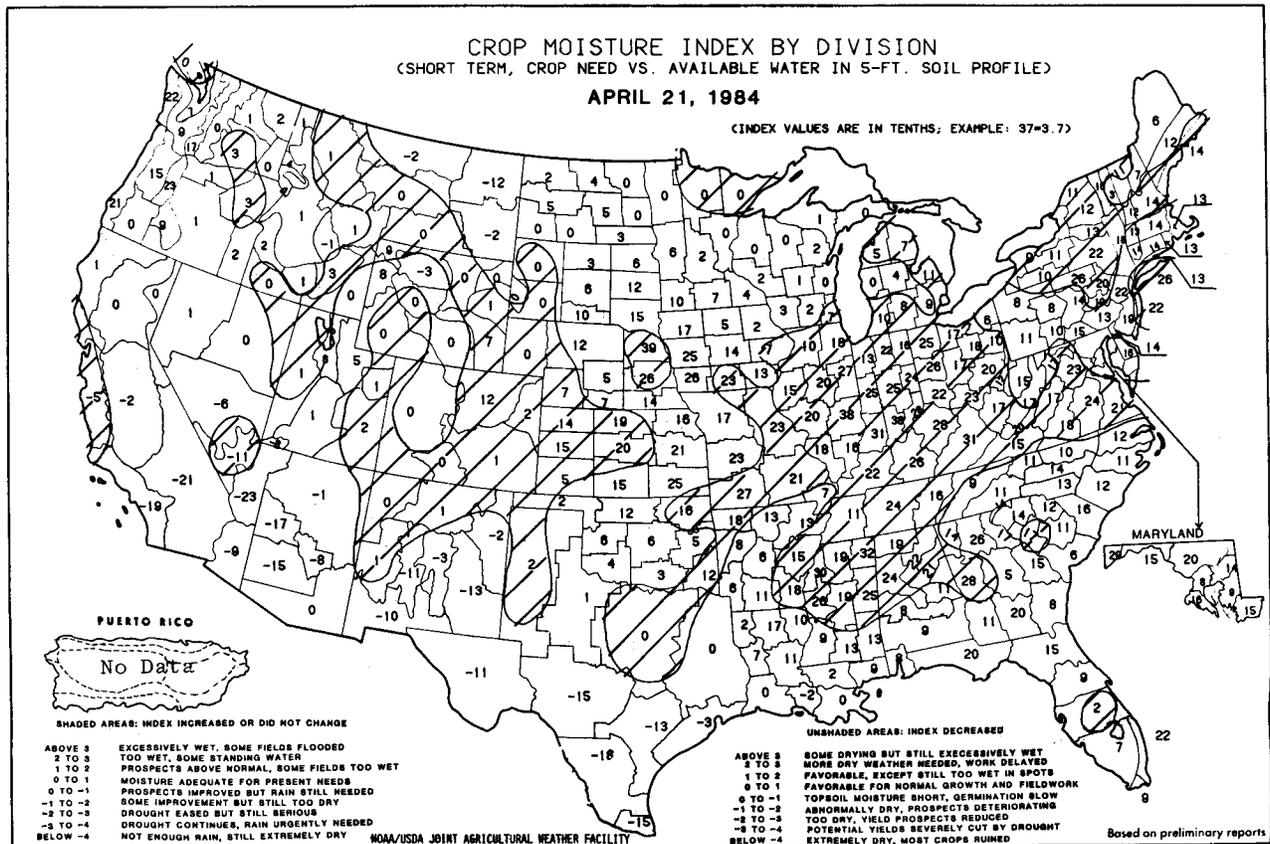
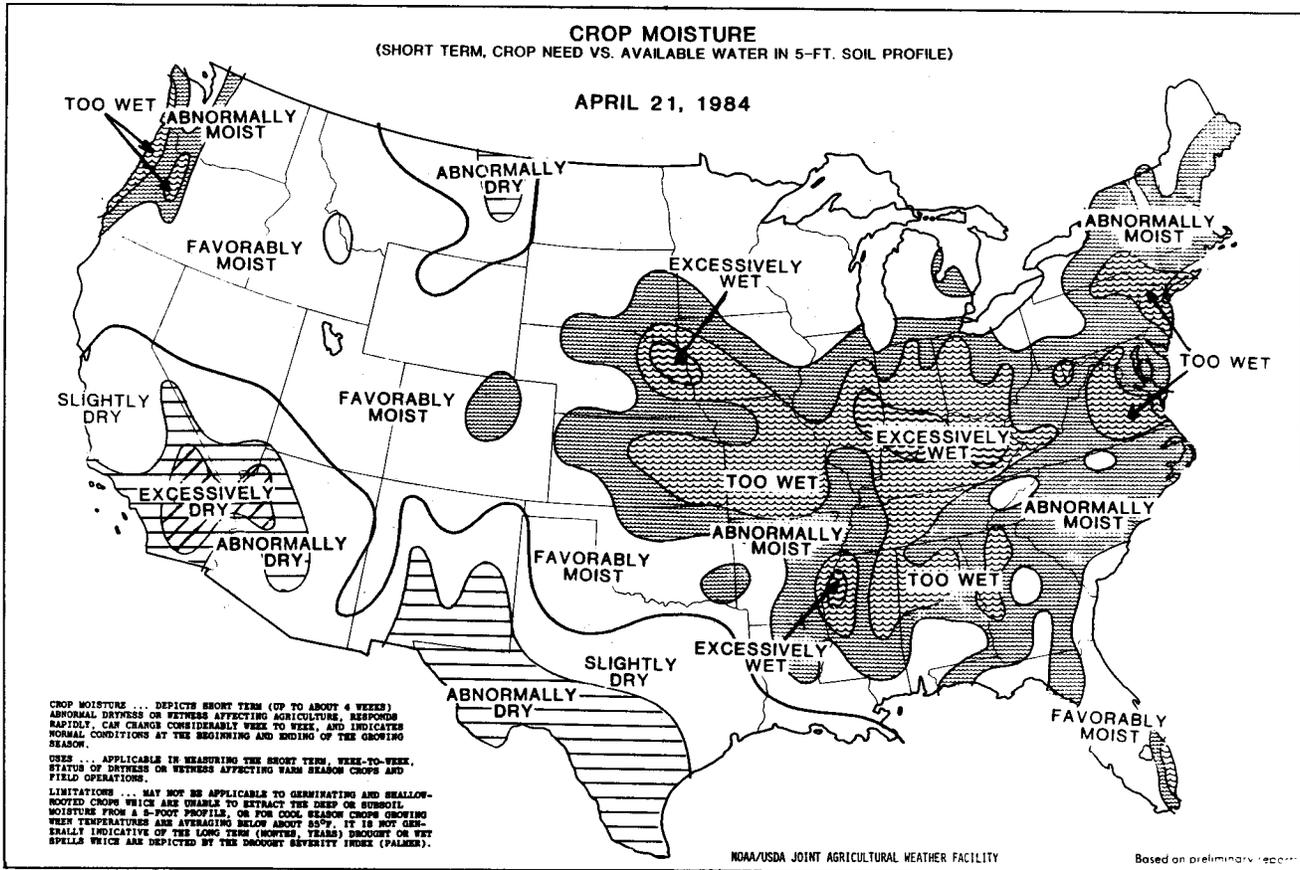
SUNDAY...Light rain lingered in the eastern portion of the central Plains and was somewhat heavier eastward through the Ohio Valley to the northeastern States. Thunderstorms produced heavier rain along the east coast and in Florida. Temperatures were unusually cool from the central Rockies to New England, but were warm in southern Texas and the Southwest.

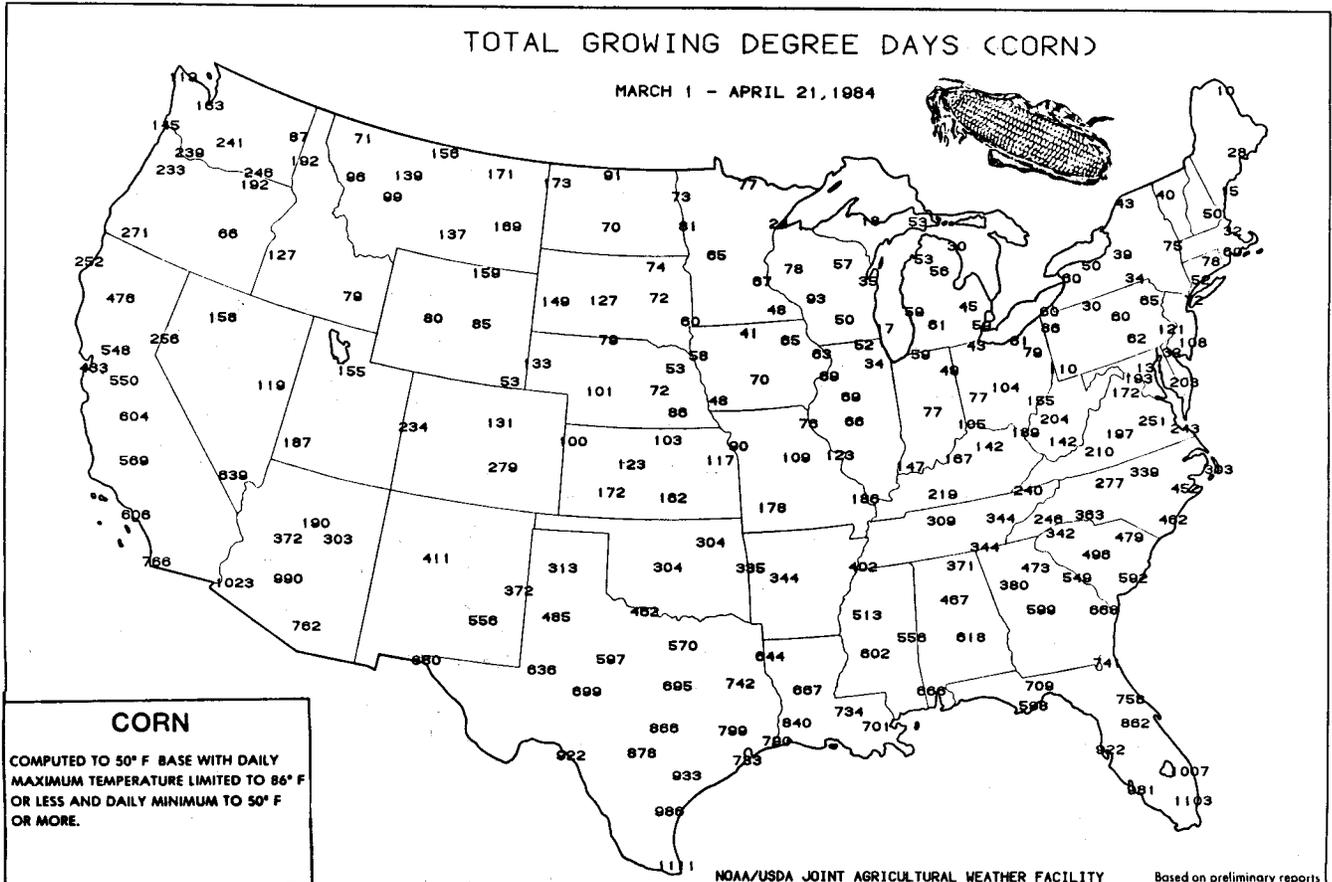
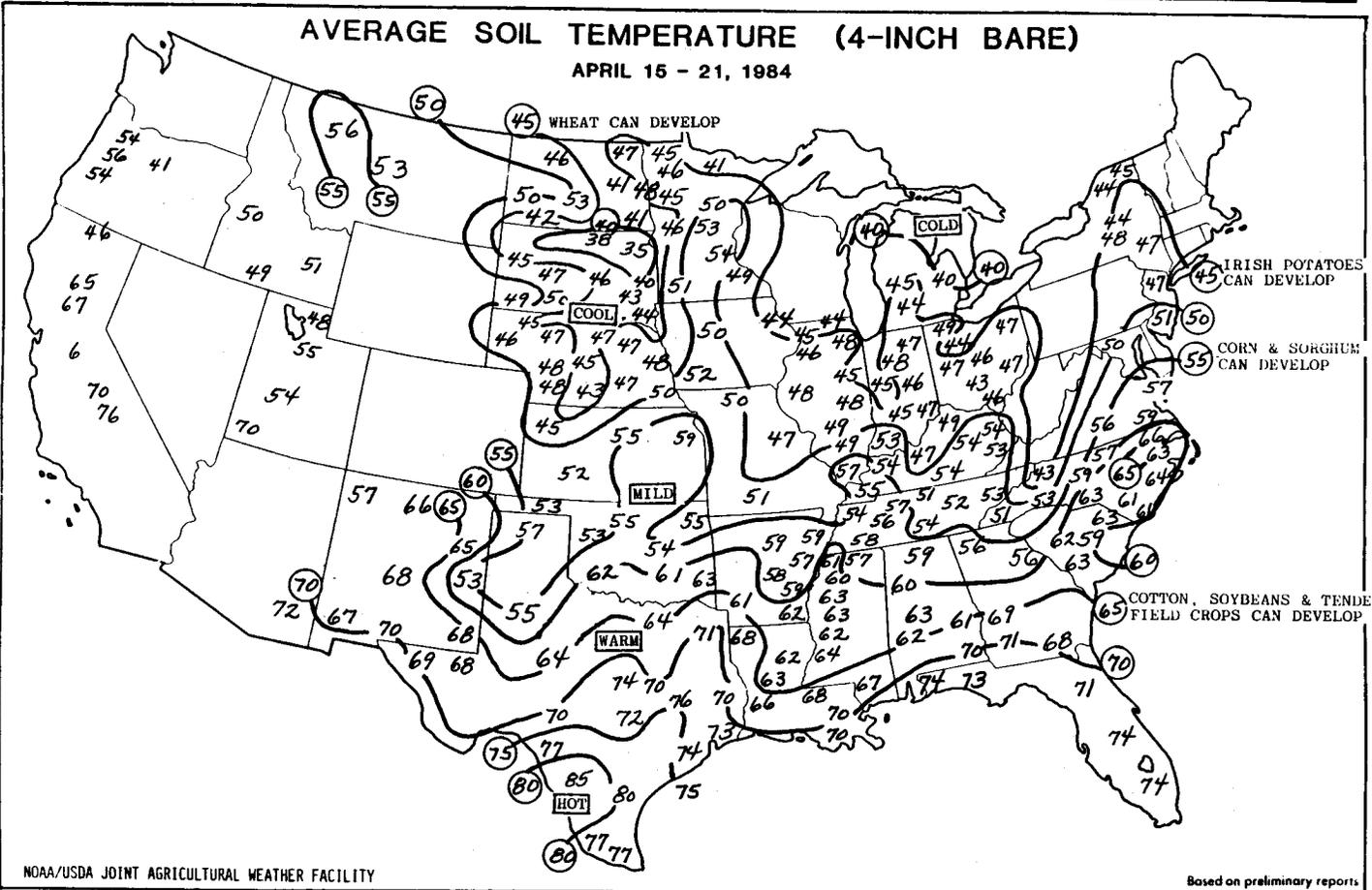
MONDAY...A strong low-pressure system in eastern New York spread heavy rain over the northeastern corner of the Nation. Light rain and cool temperatures reached from the eastern Great Lakes to the mid-South. Warmer weather over the Rockies and Plains brought readings in the eighties to Montana and southern Canada, and nineties and hundreds to the Southwest.

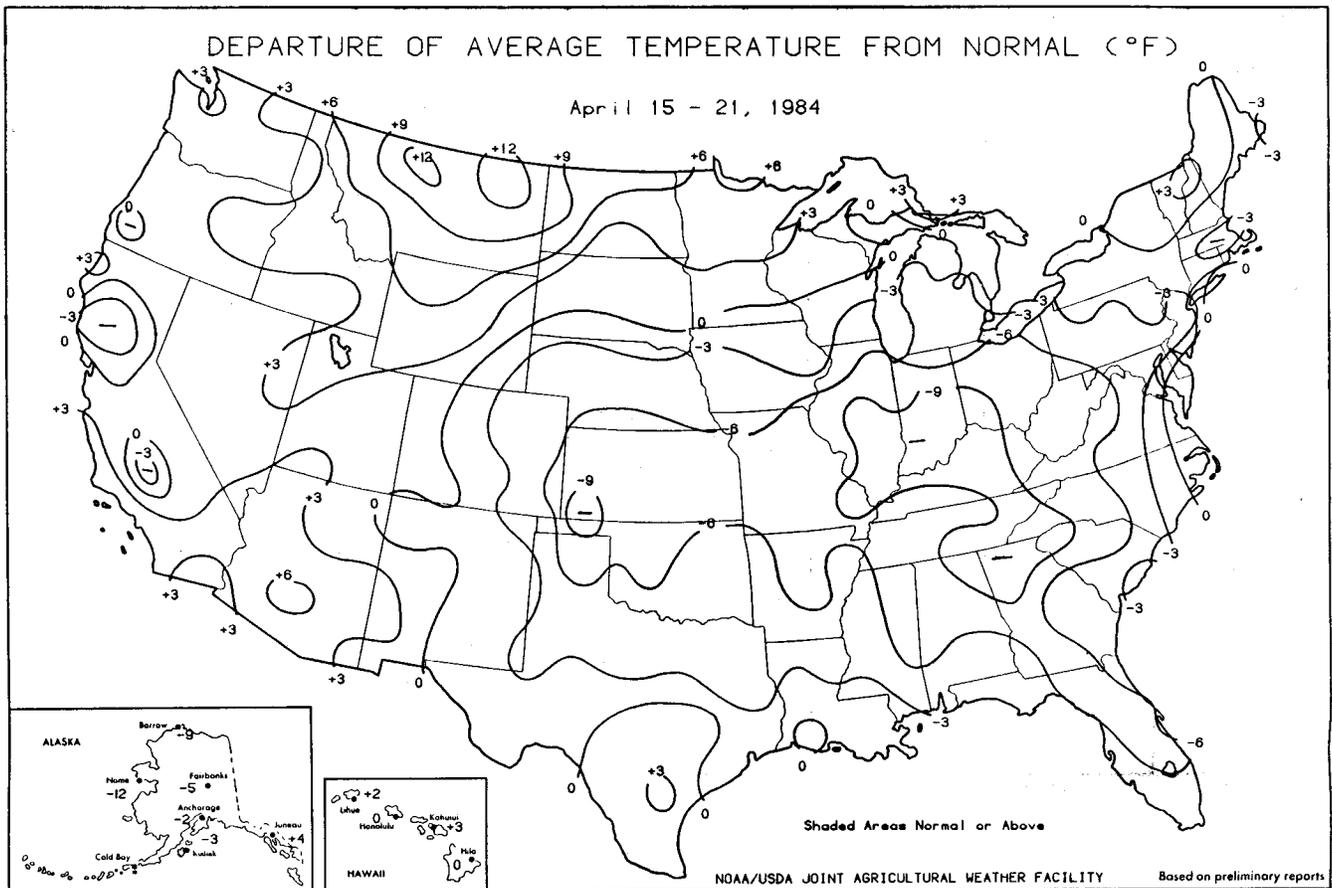
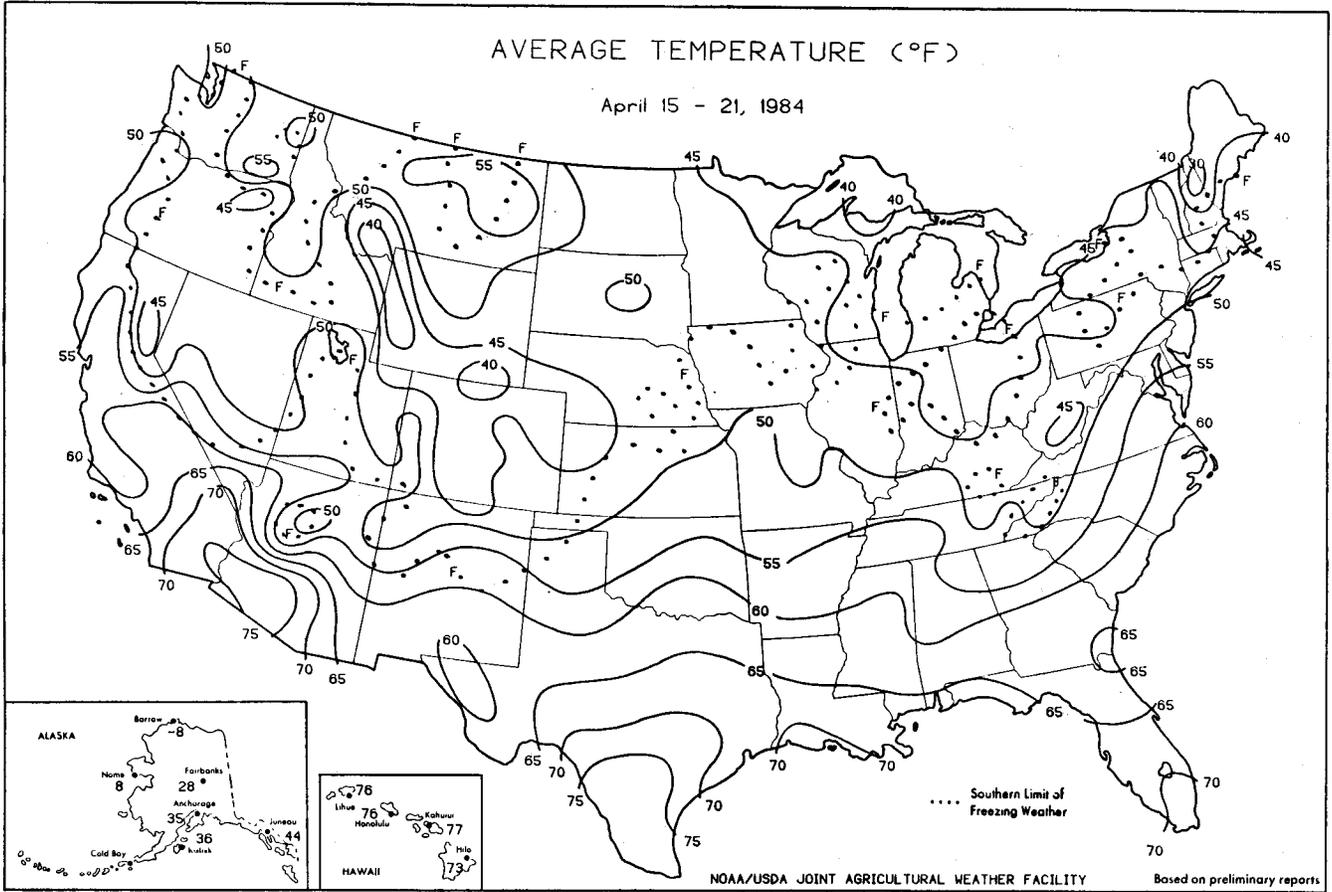
TUESDAY...Cool, wet weather continued from the Great Lakes southward, while showers and somewhat warmer temperatures covered the east coast. Swollen rivers caused local flooding in parts of New York and New

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Weather Data for the Week Ending APRIL 21, 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	TEMPERA- TURE °F		PRECIPI- TATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	67	45	82	34	56	-8	1.2	.1	1.2	7.9	81	15.1	74	90	44	0	0	3	1
AL MOBILE	75	54	82	45	64	-5	0	-1.2	0	8.1	84	19.1	96	88	44	0	0	0	0
AL MONTGOMERY	75	52	88	42	63	-3	T	-.9	T	6.3	73	15.6	87	92	41	0	0	2	0
AK ANCHORAGE	43	28	52	22	35	-2	.5	.4	.3	.8	89	3.1	124	76	52	0	5	4	0
AK BARROW	1	-18	18	-27	-8	-9	.2	.1	.1	.4	67	.7	88	83	55	0	7	2	0
AK FAIRBANKS	39	18	56	3	28	-5	.1	0	T	.6	86	2.2	129	76	38	0	7	2	0
AK JUNEAU	51	38	56	31	44	4	.3	.4	.1	4.0	80	16.4	126	94	48	0	1	5	0
AK KODIAK	42	30	46	26	36	-3	T	-1.2	T	11.1	166	28.3	129	71	43	0	7	1	0
AK NOME	16	-1	24	-9	8	-12	T	.1	T	.3	30	1.1	46	77	45	0	7	1	0
AZ PHOENIX	89	64	101	55	76	7	0	.1	0	.6	60	.9	41	33	13	4	0	0	0
AZ PRESCOTT	69	40	80	32	55	4	0	.1	0	.2	11	.2	4	37	16	0	1	0	0
AZ TUCSON	84	56	95	41	70	4	0	.1	0	.2	29	.8	38	32	10	3	0	0	0
AZ YUMA	87	61	101	53	74	3	0	0	0	.8	200	.9	69	45	14	2	0	0	0
AR FORT SMITH	69	47	79	36	58	-5	.6	.4	.5	6.2	95	9.6	85	88	36	0	0	3	1
AR LITTLE ROCK	68	48	82	38	58	-6	.2	-1.1	.1	8.1	99	13.4	83	85	48	0	0	3	0
CA BAKERSFIELD	74	46	88	40	60	-4	.2	.1	.2	1.1	79	1.2	32	78	26	0	0	1	0
CA EUREKA	58	45	62	42	52	2	.9	.2	.3	7.1	104	13.2	67	90	62	0	0	5	0
CA FRESNO	75	49	90	41	62	1	.1	-.2	.1	.6	26	1.8	28	78	26	1	0	2	0
CA LOS ANGELES	70	56	78	54	63	3	.1	.1	.1	1.1	48	1.5	18	78	44	0	0	1	0
CA RED BLUFF	68	47	80	39	57	-2	.4	.1	.3	1.8	56	4.1	36	88	35	0	0	2	0
CA SACRAMENTO	71	47	81	42	59	0	.1	-.2	.1	1.4	50	2.6	26	88	41	0	0	2	0
CA SAN DIEGO	72	60	78	54	66	4	.1	0	.1	.5	25	1.1	19	86	51	0	0	1	0
CA SAN FRANCISCO	64	48	72	45	56	1	.5	.2	.4	2.1	60	4.0	34	81	49	0	0	2	0
CO DENVER	57	33	75	26	45	-4	1.2	.7	.7	3.0	125	4.0	114	75	36	0	4	3	1
CO GRAND JUNCTION	67	41	78	35	54	1	.4	.3	.3	2.3	192	2.7	123	64	24	0	0	2	0
CO PUEBLO	66	34	85	24	50	-3	1.0	.8	.8	2.2	169	2.5	125	75	31	0	2	3	1
CT BRIDGEPORT	56	43	64	40	49	-1	1.7	.9	1.4	7.1	115	13.3	104	92	63	0	0	2	1
CT HARTFORD	56	39	68	32	47	-3	1.1	.2	1.0	7.6	112	14.3	101	94	50	0	1	5	1
DC WASHINGTON	64	47	67	44	55	-2	.6	-.1	.3	8.6	165	13.7	127	82	45	0	0	4	0
FL APALACHICOLA	73	58	78	49	65	-3	.2	-.6	.1	13.2	224	21.9	162	95	58	0	0	2	0
FL DAYTONA BEACH	76	51	81	45	64	-7	.1	.4	.1	6.3	147	11.3	110	87	45	0	0	1	0
FL JACKSONVILLE	78	53	86	48	65	-3	.4	.4	.4	8.5	155	15.3	120	94	43	0	0	2	0
FL KEY WEST	79	70	82	61	74	-4	-.1	.3	.1	5.7	248	10.0	156	76	54	0	0	2	0
FL MIAMI	80	62	84	55	71	-5	.7	-.1	.6	10.4	289	11.3	141	87	43	0	0	2	1
FL ORLANDO	77	53	87	48	65	-7	-.2	.3	.1	8.1	188	12.9	133	97	47	0	0	2	0
FL TALLAHASSEE	78	49	85	40	64	-4	T	-.9	T	14.4	182	24.5	135	99	37	0	0	1	0
FL TAMPA	77	60	89	57	69	-4	.3	0	.3	2.6	62	7.5	77	91	51	0	0	2	0
FL WEST PALM BEACH	79	58	83	51	69	-5	.1	-.7	.1	11.0	234	16.9	159	93	50	0	0	1	0
GA ATLANTA	61	45	71	38	53	-10	2.3	1.4	1.4	10.9	130	21.7	118	85	50	0	0	4	2
GA AUGUSTA	71	49	80	39	60	-4	1.1	.4	.8	9.9	146	18.2	117	88	45	0	0	4	1
GA MACON	74	51	83	44	62	-4	.8	0	.6	6.6	94	15.3	92	86	41	0	0	5	1
GA SAVANNAH	76	53	83	45	64	-3	.3	.4	.3	7.0	125	19.1	154	88	38	0	0	2	0
HI HILO	78	67	81	65	73	0	3.9	.8	1.5	11.9	55	32.7	70	89	61	0	0	6	4
HI HONOLULU	83	70	85	69	76	0	1.1	.9	1.1	1.8	43	3.3	30	78	53	0	0	1	1
HI KAHULUI	84	69	89	64	77	-3	T	-.2	T	1.0	29	4.6	41	72	49	0	-0	-1	0
HI LIHUE	81	71	82	69	76	2	.3	.5	.2	1.1	17	4.9	29	79	58	0	0	4	0
ID BOISE	62	43	79	38	53	3	.2	.1	.2	2.9	145	4.6	96	72	37	0	0	2	0
ID LEWISTON	61	45	84	40	53	2	.3	.1	.1	2.5	147	3.5	90	85	50	0	0	3	0
ID POCATELLO	62	35	77	29	48	3	1.3	1.0	.8	2.3	144	4.9	136	85	38	0	2	4	1
IL CHICAGO	49	35	56	33	42	-8	-.9	0	.5	4.9	94	7.5	89	94	61	0	0	4	1
IL MOLINE	54	39	60	32	47	-5	.3	-.7	.2	5.5	102	7.2	84	87	50	0	1	2	0
IL PEORIA	52	40	59	35	46	-7	1.6	.7	1.1	7.7	143	10.6	122	93	60	0	0	4	1
IL QUINCY	55	42	58	36	49	-6	-.9	0	.7	7.0	127	9.2	107	83	57	0	0	4	1
IL ROCKFORD	51	37	60	32	44	-5	.3	-.7	.2	3.3	61	5.3	64	85	48	0	1	3	0
IL SPRINGFIELD	52	39	57	34	46	-9	2.6	1.7	2.2	8.1	137	10.7	113	96	66	0	0	4	1
IN EVANSVILLE	56	42	60	36	49	-9	1.9	1.0	1.4	11.4	161	14.8	110	84	54	0	0	5	1
IN FORT WAYNE	49	38	57	32	44	-7	.6	-.2	.4	5.9	111	8.6	90	94	68	0	1	4	0
IN INDIANAPOLIS	50	38	58	33	44	-10	1.7	.9	1.0	6.1	103	10.3	91	89	64	0	0	4	1
IN SOUTH BEND	50	40	59	35	45	-5	.8	-.2	.3	4.4	73	6.8	63	84	55	0	0	5	0
IA DES MOINES	59	39	63	34	49	-3	1.7	.9	1.7	5.2	121	7.1	106	76	38	0	0	1	1
IA SIOUX CITY	60	38	63	34	49	-3	.5	0	.5	6.7	216	8.2	174	85	35	0	0	1	1
IA WATERLOO	58	36	60	30	47	-2	T	-.9	T	3.2	68	4.6	68	82	37	0	3	0	0
KS CONCORDIA	58	38	63	32	48	-7	1.2	.7	.7	6.3	203	7.7	164	90	46	0	1	2	1
KS DODGE CITY	59	39	69	35	49	-7	.8	.4	.6	5.5	220	6.5	163	78	40	0	0	2	1
KS GOODLAND	54	34	67	28	44	-6	1.6	1.3	1.2	4.3	253	6.6	254	87	48	0	2	3	1
KS TOPEKA	61	39	66	30	50	-6	1.0	.3	.6	7.5	188	9.2	151	85	42	0	1	3	1
KS WICHITA	61	41	67	35	51	-7	.5	0	.5	10.4	315	12.4	248	81	42	0	0	2	0
KY BOWLING GREEN	57	44	62	40	50	-8	2.1	1.2	.8	9.0	113	15.0	88	91	59	0	0	5	2
KY LEXINGTON	52	39	59	33	46	-11	1.9	1.0	1.4	7.7	105	12.7	85	96	60	0	0	6	1
KY LOUISVILLE	54	42	62	36	48	-10	2.2	1.3	1.7	8.5	118	11.0	77	85	54	0	0	5	1
LA ALEXANDRIA	76	57	85	47	66	-2	.1	-.1	.1	8.2	98	22.8	119	78	47	0	0	1	0
LA BATON ROUGE	79	57	88	47	68	-2	T	-.1	T	3.0	38	12.2	67	83	36	0	0	0	0
LA LAKE CHARLES	81	59	84	48	70	0	T	-1.0	T	3.7	69	13.7	98	84	47	0	0	1	0
LA NEW ORLEANS	77	57	84	45	67	-3	T	-1.0	T	6.5	89	15.9	87	86	46	0	0	0	0

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

+100 = NORMAL & ACTUAL NEAR THE SAME

Weather Data for the Week Ending APRIL 21, 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 1 MAR. *	PCT. NORMAL SINCE 1 MAR. *	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		
ME SHREVEPORT	75	53	86	44	64	-2	T	-1.1	T	5.5	82	13.2	90	86	44	0	0	2	2	0	0
ME CARIBOU	46	32	58	29	39	0	T	.9	.7	3.9	100	9.3	106	86	52	0	4	3	1	1	0
ME PORTLAND	47	37	55	32	42	-2	1.6	.7	.9	8.4	135	16.1	115	92	68	0	1	5	1	1	0
MD BALTIMORE	61	43	65	39	52	-3	.7	-.1	.7	7.8	134	13.6	110	90	47	0	0	3	0	0	0
MD SALISBURY	65	48	68	45	56	1	.4	-.3	.4	11.4	190	17.9	135	97	53	0	0	2	2	0	0
MA BOSTON	51	40	67	33	46	-4	1.6	.8	1.4	8.7	136	19.0	129	95	68	0	0	3	1	1	0
MA CHATHAM	50	40	54	35	45	-1	2.8	1.9	1.5	11.3	177	19.1	122	—	—	0	0	4	2	2	0
MI ALPENA	48	35	62	31	42	-1	1.2	.6	.6	4.8	130	6.5	92	95	66	0	2	3	2	2	0
MI DETROIT	53	37	61	30	45	-4	.6	-.2	.5	4.8	100	7.0	80	88	53	0	1	3	0	0	0
MI FLINT	49	36	59	32	43	-5	1.1	-.4	.4	4.8	117	5.9	79	97	62	0	1	5	0	0	0
MI GRAND RAPIDS	49	38	62	34	44	-4	.5	-.3	.2	4.2	88	6.2	74	91	65	0	0	5	0	0	0
MI HOUGHTON LAKE	48	35	60	30	42	-2	.6	-.1	.3	2.8	78	4.8	73	99	62	0	3	4	0	0	0
MI LANSING	50	38	60	33	44	-4	1.2	.5	.6	4.7	112	6.0	77	96	69	0	0	5	1	0	0
MI MARQUETTE	47	30	59	26	38	-1	T	-.8	T	4.1	82	9.1	98	87	41	0	6	1	0	0	0
MI MUSKEGON	51	37	62	30	44	-3	.2	-.6	.1	2.6	55	5.2	57	83	58	0	1	3	0	0	0
MI SAULT STE. MARIE	53	36	58	28	44	5	.3	-.2	.3	2.4	71	6.0	78	89	43	0	2	2	0	0	0
MN ALEXANDRIA	61	35	64	31	48	5	0	-.6	0	2.6	96	4.2	98	77	24	0	1	0	0	0	0
MN DULUTH	55	33	63	29	44	4	T	-.5	T	.9	27	2.3	41	76	35	0	3	0	0	0	0
MN INT'L FALLS	61	31	68	28	46	6	0	-.4	0	.2	10	1.2	32	61	20	0	5	0	0	0	0
MN MINNEAPOLIS	60	39	63	35	49	1	T	-.5	T	2.4	80	4.8	102	67	28	0	0	0	0	0	0
MN ROCHESTER	57	34	59	30	45	-1	T	-.6	T	2.1	66	4.3	88	81	34	0	3	1	0	0	0
MS GREENWOOD	70	51	83	41	60	-5	2.0	.8	1.1	11.7	122	19.6	98	87	46	0	0	4	2	1	0
MS JACKSON	74	52	87	41	63	-3	1.3	0	1.2	7.8	82	15.4	78	93	49	0	0	2	1	1	0
MS MERIDIAN	73	48	85	37	60	-5	.4	-.8	.4	8.3	83	16.0	78	100	49	0	0	2	0	0	0
MO CAPE GIRARDEAU	60	45	68	37	52	—	.2	-.8	.1	7.8	103	13.0	93	92	56	0	0	2	0	0	0
MO COLUMBIA	57	42	63	37	49	-7	3.2	2.3	2.0	10.9	191	14.6	149	94	52	0	0	3	2	1	0
MO KANSAS CITY	58	41	63	34	49	-7	1.2	.4	.8	8.8	196	10.9	160	84	46	0	0	3	1	1	0
MO SAINT LOUIS	58	43	61	38	51	-7	2.2	1.3	1.8	11.2	196	15.7	154	96	54	0	0	4	1	1	0
MO SPRINGFIELD	62	42	72	35	52	-6	2.1	1.1	1.8	9.7	159	14.6	143	82	41	0	0	4	1	1	0
MT BILLINGS	67	41	79	35	54	8	T	-.5	T	1.2	50	2.9	73	64	26	0	0	1	0	0	0
MT GLASGOW	72	41	78	34	57	12	0	-.2	0	.8	89	1.4	82	49	14	0	0	0	0	0	0
MT GREAT FALLS	66	44	82	32	55	11	.2	-.2	.1	1.7	89	3.2	82	74	38	0	1	2	0	0	0
MT HAVRE	71	38	81	30	54	10	T	-.3	T	.5	38	1.4	64	75	23	0	2	1	0	0	0
MT HELENA	63	38	79	31	51	7	1.1	-.9	.9	1.8	150	2.2	92	80	40	0	2	3	1	1	0
MT KALISPELL	61	42	82	38	52	7	.9	-.6	.4	2.7	180	4.2	95	75	44	0	0	4	0	0	0
MT MILES CITY	70	43	76	31	57	10	0	-.4	0	.5	33	.6	25	54	16	0	1	0	0	0	0
MT MISSOULA	62	41	81	35	51	6	1.3	1.0	.7	3.3	206	4.5	115	92	47	0	0	4	1	1	0
NE GRAND ISLAND	58	38	65	33	48	-4	2.4	1.8	1.8	8.8	259	11.2	233	80	37	0	0	2	2	2	0
NE LINCOLN	60	38	65	31	49	-4	1.7	1.0	1.4	7.7	203	9.5	170	91	44	0	3	3	1	1	0
NE NORFOLK	60	36	64	32	48	-2	1.4	-.9	1.4	7.9	272	11.1	252	87	34	0	1	1	1	1	0
NE NORTH PLATTE	57	30	64	24	44	-5	2.4	2.0	1.6	5.2	236	6.6	200	79	31	0	5	2	2	2	0
NE OMAHA	58	39	62	35	48	-4	1.7	1.0	1.6	7.6	205	8.8	154	85	43	0	0	2	1	1	0
NE SCOTTSBLUFF	56	34	67	27	45	-3	1.1	-.8	.9	3.8	200	4.7	168	77	42	0	2	3	1	1	0
NE VALENTINE	60	31	66	24	46	-2	.1	-.4	-.1	3.3	157	3.8	131	73	23	0	4	1	0	0	0
NV ELY	59	31	75	27	45	3	.3	-.1	.3	1.9	136	2.7	90	80	31	0	4	2	0	0	0
NV LAS VEGAS	80	56	95	48	68	3	0	0	0	0	0	0	0	29	9	2	9	0	0	0	0
NV RENO	61	35	78	23	48	1	T	-.1	T	.5	63	1.1	34	67	21	0	3	0	0	0	0
NV WINNEMUCCA	61	31	80	22	46	0	.2	0	.2	2.6	260	3.6	124	76	25	0	4	2	0	0	0
NH CONCORD	51	37	66	33	44	-1	1.3	-.6	.7	5.8	123	13.1	127	91	59	0	0	6	1	1	0
NJ ATLANTIC CITY	61	43	64	39	52	0	1.7	-.9	.7	9.9	162	15.9	119	92	51	0	0	3	2	2	0
NM ALBUQUERQUE	70	44	84	33	57	1	.1	0	.1	.7	100	1.0	63	51	14	0	0	2	0	0	0
NM CLOVIS	70	42	85	38	56	-2	T	-.2	T	.3	30	.7	35	56	18	0	0	0	0	0	0
NM ROSWELL	76	46	89	39	61	-2	0	-.1	0	.5	100	.5	42	40	13	0	0	0	0	0	0
NY ALBANY	55	42	66	30	48	0	1.4	-.7	.7	6.4	133	10.7	108	94	61	0	1	5	1	1	0
NY BINGHAMTON	51	39	59	32	45	-1	1.9	1.1	.8	6.9	133	11.9	112	93	62	0	1	6	2	2	0
NY BUFFALO	50	40	65	36	45	-2	.6	-.1	.3	3.2	65	8.4	79	93	67	0	0	4	0	0	0
NY NEW YORK	56	44	63	42	50	-3	1.0	.1	.6	9.9	152	15.7	119	91	65	0	0	3	1	1	0
NY ROCHESTER	52	41	57	36	46	-1	.6	0	.3	3.4	83	8.5	94	95	68	0	0	4	0	0	0
NY SYRACUSE	52	40	59	32	46	-2	1.3	.5	.5	3.9	75	8.6	80	95	63	0	1	5	1	1	0
NC ASHEVILLE	58	38	69	30	48	-9	.2	-.6	.2	7.9	107	16.7	110	97	55	0	1	2	0	0	0
NC CHARLOTTE	64	45	71	39	55	-7	.2	-.5	.1	9.0	132	18.9	127	87	43	0	0	2	0	0	0
NC GREENSBORO	63	43	72	35	53	-6	.1	-.7	T	7.5	127	16.3	122	83	38	0	0	2	0	0	0
NC HATTERAS	67	56	75	54	61	1	.7	0	.3	6.4	110	13.1	86	84	52	0	0	4	0	0	0
NC NEW BERN	72	53	81	43	63	0	.7	0	.5	9.5	186	18.0	130	87	42	0	0	3	0	0	0
NC RALEIGH	67	46	74	37	57	-4	.2	-.5	.1	8.0	145	18.5	142	92	38	0	0	2	0	0	0
NC WILMINGTON	71	54	78	48	62	-2	.4	-.3	.3	7.1	122	14.6	108	90	50	0	0	4	0	0	0
ND BISMARCK	62	30	66	26	46	1	0	-.4	0	3.2	188	3.9	156	87	25	0	6	0	0	0	0
ND FARGO	64	32	68	27	48	4	0	-.5	0	1.8	86	3.7	116	74	25	0	4	0	0	0	0
ND GRAND FORKS	63	34	67	31	48	5	0	-.4	0	1.7	94	2.8	93	83	28	0	2	0	0	0	0
ND WILLISTON	70	36	72	27	53	10	0	-.3	0	.9	64	1.8	72	68	20	0	1	0	0	0	0
OH AKRON-CANTON	51	37	56	32	44	-6	.4	-.4	.1	4.6	88	8.6	83	94	58	0	1	5	0	0	0
OH CINCINNATI	51	38	58	29	44	-11	1.7	-.9	1.1	7.1	116	10.3	82	94	63	0	2	6	1	1	0
OH CLEVELAND	50	35	62	29	43	-7	.4	-.4	.4	4.9	98	9.7	94	94	59	0	1	2	0	0	0
OH COLUMBUS	54	38	60	29	46	-7	.4	-.4	.2	5.6	104	8.6	80	82	48	0	1	3	0	0	0

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

Weather Data for the Week Ending APRIL 21, 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
DAYTON	50	38	56	30	44	-9	.9	.1	.6	6.1	115	10.0	96	89	58	0	1	4	1
TOLEDO	51	37	60	27	44	-5	.5	.3	.3	4.7	102	6.9	78	97	65	0	2	4	0
YOUNGSTOWN	51	40	58	34	45	-4	.4	.4	.2	4.6	84	8.2	75	94	59	0	0	5	0
OK OKLAHOMA CITY	68	46	80	42	57	-5	.7	.7	.1	6.1	174	7.7	126	74	40	0	0	1	0
TULSA	67	48	72	41	58	-5	.6	.4	.6	8.1	142	11.4	127	81	35	0	0	2	1
OR ASTORIA	56	41	59	33	48	0	.6	.4	.2	9.5	97	24.8	82	93	61	0	0	5	0
BURNS	58	35	77	27	46	2	.2	.1	.1	2.4	300	3.4	213	82	48	0	2	2	0
MEDFORD	60	42	67	36	51	0	.1	.1	.1	2.6	108	5.3	65	86	51	0	0	2	0
PENDLETON	62	43	78	38	52	1	.9	.7	.6	3.3	220	5.7	174	81	41	0	0	3	1
PORTLAND	61	46	65	37	53	2	.2	.3	.2	5.8	121	11.8	76	85	48	0	0	3	0
SALEM	60	41	61	30	50	1	.2	.3	.1	7.6	138	15.3	86	95	55	0	1	3	0
PA ALLENTOWN	58	41	64	38	49	-2	1.7	.7	.8	8.1	125	13.3	99	90	54	0	0	5	2
ERIE	48	38	61	34	43	-3	.7	.2	.5	3.7	67	7.7	73	88	62	0	0	3	1
HARRISBURG	56	40	61	37	48	-6	.9	.2	.5	8.1	150	13.6	117	90	54	0	0	3	1
PHILADELPHIA	59	43	65	40	51	-3	1.0	.2	.4	9.4	152	14.3	113	93	54	0	0	3	1
PITTSBURGH	53	39	60	35	46	-5	1.0	.2	.5	5.1	91	8.6	76	88	51	0	0	5	0
SCRANTON	55	43	62	37	49	-1	1.5	.8	.7	5.5	120	9.7	103	86	66	0	0	6	1
RI PROVIDENCE	54	39	63	33	46	-3	1.6	.7	.8	8.9	131	18.2	119	92	66	0	0	4	2
SC CHARLESTON	73	53	78	45	63	-2	.7	.1	.4	8.7	147	17.3	132	96	43	0	0	3	0
COLUMBIA	66	46	74	35	56	-9	.9	.1	.6	7.9	111	16.9	104	96	49	0	0	3	1
FLORENCE	68	49	74	41	58	-6	.5	.1	.3	8.7	150	16.0	121	97	53	0	0	3	0
GREENVILLE	62	43	71	38	52	-9	.4	.5	.3	8.7	101	18.9	104	89	50	0	0	2	0
SD ABERDEEN	60	37	63	34	49	2	0	.5	0	3.1	135	4.5	129	76	34	0	0	0	0
HURON	62	38	64	30	50	2	0	.5	0	3.3	138	4.9	132	89	35	0	1	0	0
RAPID CITY	63	32	67	28	47	1	0	.5	.7	1.4	61	1.8	53	70	24	0	5	0	0
STIOUX FALLS	61	35	65	30	48	0	.3	.3	.3	5.5	183	7.3	166	89	32	0	2	1	0
TN CHATTANOOGA	59	43	70	39	51	-10	.9	.1	.7	6.8	76	14.5	73	91	59	0	0	4	1
KNOXVILLE	61	42	79	36	52	-9	.3	.5	.1	5.6	73	12.4	72	93	60	0	0	4	0
MEMPHIS	67	50	84	39	59	-5	.8	.5	.3	8.8	98	15.2	81	87	47	0	0	5	0
NASHVILLE	63	46	78	44	55	-6	2.4	1.4	2.0	8.3	101	12.5	71	88	50	0	0	4	1
TX ABILENE	78	46	96	38	62	-4	0	.6	0	.7	28	2.2	48	62	19	2	0	0	0
AMARILLO	66	37	77	33	51	-6	0	.3	0	1.4	93	2.4	96	72	27	0	0	0	0
AUSTIN	87	59	97	48	73	3	0	.8	0	2.5	74	5.2	67	66	23	3	0	0	0
BEAUMONT	77	59	80	47	68	-2	0	1.0	0	2.9	55	13.6	101	94	57	0	0	0	0
BROWNSVILLE	89	64	98	50	77	1	0	.4	0	.1	6	5.4	120	88	33	4	0	0	0
CORPUS CHRISTI	88	60	94	46	74	0	0	.5	0	.2	10	6.6	118	78	32	4	0	0	0
DEL RIO	90	57	96	50	73	1	0	.5	0	0	0	1.6	52	43	13	4	0	0	0
EL PASO	79	50	88	37	64	0	0	0	0	.4	100	.7	58	31	11	0	0	0	0
FORT WORTH	74	53	90	45	63	-4	.1	.8	.1	6.1	133	10.2	123	77	36	1	0	1	0
GALVESTON	74	63	77	52	68	-2	0	.6	0	1.4	37	5.6	60	88	58	0	0	0	0
HOUSTON	80	57	88	43	69	-1	0	1.1	0	2.9	55	11.1	91	80	37	0	0	0	0
LUBBOCK	74	43	87	37	58	-3	0	.3	0	.5	31	.7	28	64	19	0	0	0	0
MIDLAND	81	47	92	40	64	-1	0	.2	0	0	0	.6	32	41	10	1	0	0	0
SAN ANGELO	84	49	97	34	66	-2	0	.5	0	.7	37	3.7	109	50	13	2	0	0	0
SAN ANTONIO	89	54	100	41	71	1	0	.7	0	2.0	65	4.3	65	67	16	4	0	0	0
VICTORIA	85	59	90	46	72	0	0	.7	0	1.9	63	6.4	84	79	35	1	0	0	0
WACO	83	51	93	37	67	-1	0	1.0	0	4.0	91	5.8	68	87	30	1	0	0	0
WICHITA FALLS	74	47	90	41	61	-4	0	.7	0	2.0	51	3.0	48	72	29	1	0	0	0
UT BLANDING	64	35	76	30	50	2	.3	.2	.3	1.2	100	1.9	50	69	30	0	2	2	0
CEDAR CITY	63	38	76	34	51	3	.1	.2	.1	2.8	165	4.3	123	64	24	0	0	1	0
SALT LAKE CITY	66	44	80	38	55	4	1.1	.5	.9	4.7	152	6.1	103	71	35	0	0	2	1
VT BURLINGTON	52	39	63	27	46	2	1.8	1.1	.9	4.6	112	8.4	105	86	56	0	1	4	2
VA NORFOLK	68	51	72	46	59	0	3.0	2.4	2.7	10.6	196	18.2	140	79	39	0	0	3	1
RICHMOND	66	48	68	42	57	-2	.8	.1	.6	12.7	240	20.8	170	93	44	0	0	3	1
ROANOKE	62	43	68	36	52	-5	.3	.4	.2	7.3	130	13.6	111	90	44	0	0	4	0
WA COLVILLE	62	42	79	38	52	5	.4	.2	.3	4.5	265	7.5	136	86	61	0	0	4	0
QUILLAYUTE	55	40	56	33	47	0	1.4	.1	.4	14.8	97	47.8	108	99	58	0	0	6	0
SEATTLE-TACOMA	59	44	72	38	52	2	.2	.4	.2	6.1	124	13.6	88	87	44	0	0	2	0
SPokane	58	40	79	32	49	2	.3	.1	.1	2.9	171	5.4	92	89	54	0	1	4	0
YAKIMA	65	36	77	33	51	0	.5	.4	.4	1.9	211	2.9	91	79	36	0	0	3	0
WV BECKLEY	51	37	58	33	44	-9	.6	.3	.4	3.4	54	9.0	66	98	64	0	0	6	0
CHARLESTON	55	41	64	38	48	-8	1.1	.4	.5	5.3	87	9.5	71	83	48	0	0	6	1
HUNTINGTON	56	44	64	40	50	-7	.9	.1	.5	5.7	90	9.5	75	82	49	0	0	5	1
PARKERSBURG	55	41	60	38	48	-7	.5	.2	.2	6.0	102	8.7	64	99	62	0	0	5	0
WI GREEN BAY	51	37	61	29	44	-2	.4	.3	.2	2.5	68	4.6	77	91	48	0	1	4	0
LA CROSSE	59	39	63	35	49	-1	0	.7	0	3.3	83	4.3	72	79	33	0	0	1	0
MADISON	52	35	60	26	44	-4	.2	.6	.2	2.5	60	4.1	63	89	46	0	2	2	0
MILWAUKEE	47	38	53	36	43	-3	.9	.1	.6	4.0	82	6.1	74	83	55	0	0	3	1
WAUSAU	55	38	63	33	47	2	.1	.6	.1	2.1	57	4.0	71	70	34	0	0	1	0
WY CASPER	61	32	78	23	47	3	.2	.2	.1	2.7	142	4.5	145	80	31	0	4	3	0
CHEYENNE	51	29	72	22	40	-3	2.3	2.0	1.5	4.3	226	5.7	184	84	46	0	4	4	2
LANDER	61	37	77	29	49	5	.7	.2	.5	2.2	88	4.5	125	70	29	0	2	3	0
SHERIDAN	67	35	80	26	51	7	.2	.3	.2	1.8	82	2.9	76	70	27	0	3	7	0
PR SAN JUAN	92	72	94	71	82	3	.2	.7	.1	1.0	22	6.2	62	82	45	5	0	2	0

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

## National Agricultural Summary

April 16 to 22

**HIGHLIGHTS:** Land preparation and planting progress was pushed further behind schedule by moderate to heavy showers from the central Plains through much of the eastern half of the Nation. Colder than normal temperatures retarded growth and development of crops and pastures through much of this region. Soil moisture supplies were adequate to surplus, except from portions of California to West Texas where dryland supplies were short. Farmers generally had 2 to 4 days suitable for fieldwork, except in portions of the eastern Corn Belt where less than 1 day was available.

Winter wheat continued in mostly fair to good condition. Stands were in the heading stage across the South. Corn planting was 2% finished in the 17 major producing States, 3 points behind normal. Cotton was 22% planted in the 14 major producing States, 1 point behind average. Spring wheat seeding reached 12% completion in the five major producing States, 6 percentage points behind the average. Sorghum planting was 20% complete, trailing the 21% progress for last year and the average. Rice was 26% planted, 5 points ahead of last year. Stands had emerged on 13% of the planted acreage, compared to 9% a year earlier. Peanut planting ranged from 5% finished in Texas to 11% complete in Georgia. Tobacco transplanting in the Southeast ranged from 5% complete in North Carolina to virtually complete in Florida. Peaches were blooming as far north as New Jersey. Pastures and livestock were rated in fair to good condition.

**SMALL GRAINS:** Winter wheat continued in mostly fair to good condition, except in dryland fields in the Southwest and West Texas where poor stands prevailed because of dry conditions. However, abnormally cool temperatures continued to retard crop growth, except in the southern Plains where stands made good growth. Most areas had sufficient soil moisture to sustain growth and development, except in Texas where western and southern areas had major moisture shortages. The crop continued greening in the northernmost growing areas.

Kansas wheat was in fair to good condition, except in the northwest where stands were poor. Warm temperatures early in the week promoted growth. Twenty percent of the wheat acreage reached the joint stage. Producers reported moderate alfalfa weevil and soil-borne mosaic infestations in central and eastern areas.

Wheat continued in good condition in Oklahoma with mostly light to moderate insect infestations in the west. Favorable temperatures boosted wheat development. Winter wheat and other small grains continued to show moisture stress in Texas, except in the Blacklands where adequate rainfall increased head weights. Elsewhere, wheat started to turn color prematurely because of a lack of moisture and hot temperatures. Winter wheat was rated mostly fair to good with 16% of the crop headed.

Spring wheat seeding was 12% finished in the five major producing States, 3 points ahead of last year but 6 points behind normal. Seeding had begun in all States and ranged from 4% complete in South Dakota to 30% finished in both Idaho and Montana.

**CORN:** Corn planting in the 17 major producing States was 2% complete, equaling last year but trailing the average of 5%. Planting was just beginning in Colorado, Kansas, and Missouri. The Southeast was the center of activity. Planting was 82% complete in Georgia, 18% finished in Virginia, and 20% complete in North Carolina. Wet field conditions left planting behind normal in all

States. Emerged plants across the South were in mostly fair to good condition.

**COTTON:** Cotton planting advanced rapidly in the Southwest but was just beginning elsewhere. Producers in the 14 major producing States planted 22% of the acreage, 1 point behind normal. Planting was underway in all States except Missouri, Oklahoma, and Tennessee. Arizona growers were 75% finished; 20% of the acreage was planted during the week. In California, 90% of the crop had been seeded.

**OTHER CROPS:** Sorghum planting was generally confined to Texas where 59% of the crop was planted. Oklahoma, with 1% seeded, was the only other major State showing any plantings. Dry conditions slowed sorghum growth in Texas, but planting continued to gain momentum as temperatures warmed. Growers in the Blacklands sprayed to control greenbugs.

Rice seeding was 26% finished, 5 points ahead of last year but 7 points behind normal. Progress ranged from 3% finished in California to 79% complete in Texas. Only Louisiana and Texas were ahead of schedule. Stands had emerged on 13% of the acreage in the five major producing States. Emergence was confined to early plantings in Louisiana and Texas.

Soybean planting was just starting in Arkansas and Georgia. Progress trailed normal in both States.

Peanut planting was 11% finished in Georgia, 8% complete in Mississippi, and reached 5% completion in Texas.

Tobacco transplants in the Southeast were rated good. Transplanting ranged from 5% finished in North Carolina to virtually complete in Florida.

**FRUITS AND NUTS:** Peaches were blooming as far north as New Jersey. The South Carolina crop virtually escaped the hail and frost that plagued portions of the State. Peaches were rated mostly good throughout the Southeast. Fruit trees were mostly at or past full bloom in the Northwest.

Freeze-damaged citrus trees in Florida showed new growth. Groves were in good condition with sufficient soil moisture. Grapefruit picking slowed but orange harvesting increased.

Tangerine and lemon picking was nearly finished in Arizona, but moderate volumes of grapefruit and Valencia oranges were shipped.

California's vineyards showed vigorous growth. Growers actively thinned many stonefruits. Valencia orange picking gained momentum. Some limb breakage was reported in almond orchards because of the heavy set.

**VEGETABLES:** Cool, wet weather continued to slow vegetable planting across much of the eastern half of the Nation.

Florida's vegetable shipments rose 8% from the previous week. Celery, sweet corn, lettuce, radishes, and strawberries were the only crops registering declines.

Texas vegetable crops made good growth, but heavy irrigation was required in most regions. Onion harvesting increased in the Rio Grande Valley.

Harvesting of vegetables continued active in Arizona's Salt River Valley but declined elsewhere.

California producers continued planting and harvesting a wide variety of vegetables. Lettuce harvesting reached peak volumes in the San Joaquin Valley. Strawberry picking continued under favorable conditions in all areas.

(continued on p. 10)

**CROP PROGRESS**

FOR WEEK ENDING APR 22, 1984

	CORN % PLANTED		
	1984	1983	AVG.
COLO	1	1	6
GA	82	72	84
ILL	0	0	2
IND	0	0	0
IOWA	0	0	0
KANS	1	2	10
KY	3	2	11
MICH	0	0	0
MINN	0	0	0
MO	1	0	12
NEBR	0	0	0
N C	20	13	53
OHIO	0	2	5
PA	0	0	2
S DAK	0	0	0
VA	18	12	28
WIS	0	0	0
17 STATES	2	2	5

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

	COTTON % PLANTED		
	1984	1983	AVG.
ALA	12	2	24
ARIZ	75	75	74
ARK	6	2	6
CALIF	90	65	74
GA	8	8	33
LA	5	1	7
MISS	3	1	9
MO	0	0	2
N MEX	25	14	10
N C	2	4	5
OKLA	0	0	0
S C	8	3	37
TENN	0	3	9
TEX	12	10	15
14 STATES	22	17	23

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

	SORGHUM % PLANTED		
	1984	1983	AVG.
COLO	0	0	0
KANS	0	0	0
MO	0	0	0
NEBR	0	0	0
OKLA	1	2	2
S DAK	0	0	0
TEX	59	62	62
7 STATES	20	21	21

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

	SPRING WHEAT % PLANTED		
	1984	1983	AVG.
IDAHO	30	57	48
MINN	8	1	20
MONT	30	30	15
N D	6	1	11
S DAK	4	1	37
5 STATES	12	9	18

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

	RICE % PLANTED		
	1984	1983	AVG.
ARK	6	4	16
CALIF	3	2	12
LA	55	34	52
MISS	13	8	29
TEX	79	82	82
5 STATES	26	21	33

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

	RICE % EMERGED		
	1984	1983	AVG.
ARK	0	0	8
CALIF	0	0	0
LA	45	24	41
MISS	0	1	8
TEX	29	30	39
5 STATES	13	9	17

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

(continued from p. 9)

**PASTURES AND LIVESTOCK:** Pastures were in fair to good condition. Below-normal temperatures across much of the East limited growth of grasses. Supplemental feeding continued in some areas. Livestock began moving to summer pastures in some regions.

## 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:** Air temperatures 5 to 10° below normal north to slightly below normal south. Rain-fall 1.00 to 3.00 in.

Soil moisture adequate to surplus. Fieldwork: 3.8 days. Corn planted 49%, 1983 30%, average 60%. Cotton planted 12%, 1983 2%, average 24%. Wheat headed 53%, 1983 20%, average 43%. Activities: Routine care of livestock and poultry, planting corn, cotton, and some vegetables; seed bed preparation; and spreading fertilizer and lime. Conditions: Wheat mostly good, pasture and livestock fair to good. Stored feed mostly short and pasture feed mostly adequate.

**ARIZONA:** Vigorous storm system, cool front moved across State on 19th. Winds 45 to 70 mph north, 30 to 45 mph south. Scattered rain, snow confined mostly northeast quarter State, snow level down to 6,500 ft. Higher elevations 1 to 3 in. snow. Moisture ranged from traces to 0.02 in. Cooler air behind cold front lowered maximum temperatures 10 to 15°. Prior to storm mostly sunny, very warm, dry. Average temperatures from normal at Douglas to 7° above at Phoenix.

Cotton planting active, 75% seeded. Progress compares with 75% seeded same date last year and average 74%. Plants emerging, some stands established most areas. Recent cool weather slowed progress of plants emerging southeast. Emerging plants, established stands generally good condition, normal growth. Some replanting necessary in most areas. Nearly 15% acreage Buckeye area replanted, little replanting other areas Maricopa County. Corn planting continued southeast, earlier plantings up to stand. Safflower, sorghum, corn made normal progress Yuma area. Alfalfa hay harvest increasing Yuma, La Paz Counties, strong demand. Alfalfa harvest begun Salt River Valley. Wheat, barley good condition, 90 to 95% acreage headed, 25 to 30% acreage turning color. Crop progress ahead of normal central, southwest. Spring lettuce packing to wind up this week Yuma, Parker-Poston. Harvest continued in Marana-Eloy. Large supply lettuce Salt River Valley moving slow, soft market. Cabbage, green onions, carrots, radishes, leaf lettuce good condition due cool nighttime temperatures. Harvest these, other mixed vegetables active Salt River Valley. Potato harvest began, chippers Queen Creek area, table stock potatoes around Tolleson. Tangerine, lemon harvest virtually finished. Grapefruit, Valencia harvest at midseason point, volumes moderate.

**ARKANSAS:** Cooler than normal with temperatures up to 7° below normal. Some rainfall at all reporting stations. Highest 87°, lowest 25°. Most precipitation 2.73 in., least 0.12 in.

Much land preparation. Over 4.0 days favorable for fieldwork. Soil moisture adequate to surplus. Crop progress moderate. Rice planted 6%, below 5% 1983, 16% average. No rice emerged, 8% average. Cotton planted 6% this year and normal, below 5% 1983. Soybean planting barely started, 4% average. Corn good condition; planted 48%, 51% 1983, 43% average. Sorghum fair; planted 19%, 10% 1983, 21% average. Winter wheat good, beginning to head. Oats poor to good. Pastures slow and below average. Livestock fair condition.

**CALIFORNIA:** Hot weather in the first part of the period (14th and 15th) was followed by cooling temperatures with a small amount of

precipitation over all but the southeast deserts. The southeast coast was 6° above normal. Precipitation occurred mainly on the 19th and 20th with the passage of a Pacific cold front.

Rice field seeding, Sacramento Valley. About 3% planted, 2% last year, 12% average. Cotton 90% planted, 65% last year, 74% average; leaf stage Riverside County. Corn planting, San Joaquin Valley, emerging. Barley progressing, Sacramento Valley. Sugarbeets treated, herbicides; bean field fumigation. Oat, alfalfa hay cut, windrowed. Greenchopping alfalfa, San Joaquin Valley. Normal cultural practices, discing, shredding, irrigation continue. Early variety Burlat cherries starting break color. Date pollination continues. Growth grapes very vigorous. Growers treating mildew, hoppers, grapeleaf skeletonizer. Wind causing breakage and damage new growth kiwifruit vines. Pear bloom generally complete. Stone fruits continue mature. Many varieties thinned. Desert peach harvest begun with good size, quality. Valencia orange harvest picking up momentum. South Coast region Valencias maturing early, not expected hold into summer. Some limb breakage reported almonds due heavy crop. Many growers propping limbs. Walnut bloom winding down. Artichoke supplies heavy Central Coast. Asparagus harvest continues Delta, Salinas, San Joaquin Valley areas. Broccoli supplies heavy, quality good. Some harvest curtailed poor market conditions. Cantaloups, honeydews, and other melons good crop progress Desert. Planting continues central valleys. Cauliflower supplies fairly heavy South and Central Coasts, quality good. Carrot harvest full swing Desert, active San Joaquin Valley. Quality good both areas. Celery harvest continues South Coast, planting Central Coast. Sweet corn harvest starts Coachella Valley this week. Dry onion harvest increasing in Desert, all sheds operating. Lettuce peak harvest San Joaquin Valley supplies heavy. Moderate supplies Central Coast as harvest increases. Summer potato harvest increasing Kern County. Fall movement from storage continues Tulalake-Butte Valley. Strawberry harvest continues favorable conditions all areas. Market tomatoes good progress Desert. Processing tomatoes good crop conditions all areas. Showers received over most State. Foothill, valley range nearing maturity central, southern districts. Some ranches completed movement livestock grazing areas.

**COLORADO:** Light snow showers early in week with 0.10 to 0.30 in. of moisture 19th west of Divide and portions of eastern plains. Major snowstorm northeast 20th, 13 in. snow at Denver, up to 3 ft. of snow west of Ft. Collins. Temperatures 1 to 3° below normal, except 1 to 3° above in San Luis Valley.

Winter wheat good condition; 15% being pastured. Barley, good condition, 39% seeded; 56% last year, 52% average; 10% emerged; 15% last year; 20% average. Spring wheat 30% seeded; 51% last year; 46% average. Oats 27% seeded; equal last year; average 28%. Corn planting 1%, 1% last year; 6% average. No sorghum yet planted. Livestock remain under stress with heavy spring snow late in week particularly hard on young.

**FLORIDA:** An early weak cold front had moved down through the Peninsula by evening, 16th, bringing some rainfall to a large area of the

State. Another upper air disturbance on the 16th swept over the State from west to east with a few more rain showers, mostly less than 0.50 in. The next day, still another weak upper air disturbance brought rainfall amounts of generally less than 0.10 in. statewide. Low temperatures fell to near 40° in Tallahassee, morning of 17th but remained in the 50's central areas and 60's south. Skies cleared on the 18th with weekend temperature highs moving predominately into the upper 80's.

Soil moisture mostly adequate; a surplus remains in a few northern areas. Corn, tobacco planting and replanting about complete. Growth slow due to cool nights. Peanut planting underway. Land for early soybeans about ready for planting. Small grains mostly good condition. Disease showing up in a few wheat fields. Cutting oats for hay underway. Sugarcane good condition. Pastures show variable improvement statewide. Conditions remain mostly fair, north, Panhandle; generally good central, south. Cattle condition has improved slightly but remains fair to good statewide. Citrus grove condition good. Soil moisture adequate, very little irrigation. A lot of new growth on healthy trees. Most freeze damaged trees showing new growth. Orange harvest increasing, movement of grapefruit slowing as supplies are low. A cold front moved through vegetable growing areas early week. Rainfall was light to locally heavy. Temperatures averaged 50's and 60's nighttime; 70's and 80's daytime. Overall vegetable shipments increased 8% from previous week. Crops gaining were cabbage, carrots, cucumbers, eggplant, peppers, potatoes, squash, tomatoes. Crops remaining relatively steady were snap beans, cauliflower, escarole. Crops declining in shipments were celery, sweet corn, lettuce, radishes, strawberries. Watermelons making good growth. First harvest began April 18. Good volume expected early May, Immokalee area. Potato digging winding down Dade, Ft. Myers area, gaining Hastings area. Strawberry picking declining seasonally.

**GEORGIA:** Cool and wet north with rainfall of 2.00 to 3.00 in. Warm and dry central and south 19th through 21st with locally heavy thunderstorms on 22nd. Temperatures 10° below normal north and 1 to 3° below normal central and south. Temperature extremes 28° at Blainsville and 88° at several southeastern stations.

Soil moisture 46% surplus, 53% adequate, 1% short. Average days suitable for fieldwork: 3.3. Rains and wet soils continue to hamper fieldwork. Corn 82% planted, 72% last year, 84% average; condition 8% poor, 50% fair, 41% good. Herbicides being applied to corn. Cotton 8% planted this year and last, 33% average. Tobacco 78% transplanted, 86% last year, 93% average; condition 9% poor, 62% fair, 29% good. Watermelons 86% planted, 80% last year, 84% average; condition 11% poor, 59% fair, 28% good. Peanuts 11% planted this year, 6% last year, 20% average; condition 10% very poor, 40% fair, 50% good. Soybeans 1% planted, none last year, 2% average. Grain sorghum 9% planted, 4% last year, 12% average, condition 52% fair, 48% good. Wheat jointing 95%, 94% last year; 84% boot, 80% last year; 61% headed, 59% last year; condition 29% fair, 63% good, 6% excellent. Rye 31% fair, 63% good, 4% excellent. Other small grains condition 30% fair, 63% good. Apples 90% blooming, 82% last year; condition 20% fair, 65% good, 13% excellent. Pastures 25% fair, 63% good, 12% excellent. Cattle 31% fair, 62% good, 5% excellent. Hogs 25% fair and 69% good.

**HAWAII:** Agricultural crops made generally good progress under variable weather conditions. Mostly sunny skies stated the week off, but were replaced by cloudy conditions and some unexpectedly heavy showers late in the week. Some areas of the State, however, remained dry during the week and ranchers in those parts increased feed supplements to their livestock.

Supplies of head cabbage, Chinese cabbage, and head lettuce will remain heavy. Banana production expected to go on a seasonal decline. Papaya production will maintain its heavy volume. Culling heavier now as supplies are abundant.

**IDAHO:** A series of weather systems brought widely scattered showers across the State. The southeast averaged 0.50 in. above normal precipitation, while the rest of the State was slightly below normal. Temperatures ranged from 1 to 7° above normal in the north. The rest of the State had slightly above to near normal temperatures.

Crop planting fell behind both last year and the average due to the wet field conditions in the north and east portions of the State. Spring wheat seeded advanced to 30% compared to 57% in 1983 and 47% average. Spring barley at 20% trailed last year's 34% and the average 36%. Sugarbeets at 44% planted trailed last year's 71% and the 58% average. Onions planted climbed to 70% compared to 78% in 1983 and 80% average. Potatoes planted advanced to 8% compared to 14% in 1983 and 10% average. Snow mold was reported in some winter wheat areas. Feed supplies were short at several locations. Fruit trees were at the bud and bloom stages.

**ILLINOIS:** Temperatures 1 to 16° below normal. Precipitation 0.21 to 3.58 in.

Soil moisture 1% short, 32% adequate, 67% surplus. Days suitable for fieldwork: 1.0. Wheat condition 5% excellent, 43% good, 39% fair, 13% poor. Oats seeded 26%, last year 27%, average 54%. Tillage for corn and soybeans 72% complete, last year 77%, average 80%. Corn planted 0%, last year 0%, average 2%. Winter freeze damage to peaches 55% no damage, 23% light, 10% moderate, 12% severe. Winter damage to apples 61% no damage, 31% light damage, 8% moderate. Alfalfa condition 1% excellent, 70% good, 27% fair, 2% poor. Pasture condition 3% excellent, 52% good, 40% fair, 5% poor; supplying 26% livestock roughage requirements, last year 38%, average 40%.

**INDIANA:** Average daytime temperatures 10 to 14° below normal. Average lows ranged from 2 to 6° below normal. Precipitation ranged from 1.00 in. in the northeast to 3.10 in. in the southwest.

Fieldwork: averaged 0 days. Topsoil moisture adequate to mostly surplus. Subsoil moisture adequate to surplus. Spring cropland 55% tilled, 1983 70%, average, 65%. Corn 0% planted, 1983 0%, average 0%. Oats 25% seeded, 1983 55%, average 40%. Wheat fair condition. Wheat 5 in. tall, 1983 8 in., average 7 in. Wheat 5% jointed, 1983 25%, average 5%. Clover 55% seeded, 1983 75%, average 70%. Tobacco plant beds 55% seeded, 1983 70%. Pastures fair.

**IOWA:** Cool, week; wet west and south central; near normal precipitation elsewhere. Four inch soil temperatures mostly 40's.

Days suitable for fieldwork: 2.9. About 35% oats sown, 12% last year; normal 55%. Corn planted 0%, 0% last year, normal 0%. Winter wheat condition 51% good, 43% fair, 6% mostly poor to very poor. Pasture conditions 2%

excellent, 39% good, 45% fair, 14% mostly poor to very poor. Topsoil moisture 38% surplus and 62% adequate. Subsoil moisture 36% surplus, 62% adequate, 2% short. Drier conditions brought relief to most livestock. Light to normal livestock death losses.

**KANSAS:** Precipitation averaged 0.75 to 1.00 in. southwest and south central, 1.00 to 2.00 in. elsewhere. Temperatures averaged 45° northwest to 52° southeast ranging 5 to 9° below normal.

Warm temperatures early in week promoted wheat growth. Wheat condition fair to good except poor northwest. About 20% wheat acreage in joint stage, last year 30%, average 40%. Few reports of moderate to severe alfalfa weevil infestation east central and southeast. Moderate soil-borne mosaic central and eastern third of State. Surface and subsoil moisture generally adequate west, surplus central and east. About 90% barley, 85% oats planted. Corn acreage 1% planted, last year 2%, average 10%. No sorghum planted, last year and average none. Range and pastures good to excellent. Days suitable fieldwork: 3.0.

**KENTUCKY:** Cloudy, damp and cool. Precipitation fell both early and over weekend. Precipitation was above normal except for west. Totals ranged from well over 2.00 in. in east and central to less than 1.00 in. in west. High temperatures mid 70's while lows dipped below freezing mark. Readings averaged 10° below normal.

Farmers average less than 2.0 days in field. Soil moisture 70% surplus and 30% adequate. Recent rains have brought surplus soil moisture to nearly all areas. Progress of fieldwork averaged about 12 days behind normal. Approximately 90% tobacco beds seeded and 1/3 seeded beds have plants emerged, last year 58% emerged and 62% average. Corn planting 3% complete compared with 2% in 1983 and 11% average. Planting got underway in number of southern counties. Wheat seeded early last fall generally in good condition. Winter loss substantial in late seeded wheat and barley. Weed and disease reports increasing. Pastures in fair to good condition. Need sunshine and fertilization for maximum production.

**LOUISIANA:** Rainfall amounts ranged from less than 0.25 to 2.00 in. during the week. Weekly temperatures averaged from 5° below normal to near normal. High 89°, low 42°.

Soil moisture adequate. Days suitable for fieldwork: 5.5. Activities included spring plowing, fertilizer and herbicide application, planting corn, rice, and sorghum, and caring for livestock. Spring plowing 74% 1984, 57% 1983, 69% average. Rice planting 55% 1984, 34% 1983, 52% average. Rice emerged 45% 1984, 24% 1983, 41% average, condition fair to good. Corn planting 89% 1984, 54% 1983, 66% average. Corn emerged 76% 1984, 50% 1983, 54% average, condition fair to good. Cotton planting 5% 1984, 1% 1983, 7% average. Sorghum planting 41% 1984, 16% 1983. Sorghum emerged 24% 1984, 7% 1983. Sweetpotato planting 2% 1984, 3% 1983. Sugarcane condition poor to fair. Winter wheat heading 68% 1984, 32% 1983, 54% average, condition good. Wheat turning color 4% 1984, 9% 1983. Vegetable condition fair. Pasture and livestock condition fair to good.

**MARYLAND AND DELAWARE:** **Maryland:** Temperatures averaged near normal on the lower shore for 4° below normal north and central. Precipitation averaged 1.33 in.; heavier amounts north and central regions.

Wet weather beginning in March has delayed most fieldwork for the second year in a row. Acreage plowed for spring crops 20% complete, 10% last year and average of 65%. Just under 2.0 days were suitable for fieldwork. Small grains came through the winter with only light freeze damage. Small grains were in fair to good conditions due to the cool wet spring. Excessive rains in March and April have drowned out areas of some fields. Tobacco was nearly all planted: last year 95%. Green pea planting 50%; last year 55%. Potatoes planting 60%; last year 45%. Sweetpotatoe beds 90%; 85% last year. Peach bloom 75%, 80% last year. Topsoil and subsoil moisture both excessive.

**Delaware:** Temperatures near normal south to 4° below normal north. Precipitation over 1.00 in. heavier amounts central.

The second cool, wet spring in a row causing fieldwork to fall behind normal. Acreage plowed at 15% was equal to last year but well behind the 80 to 90% expected for a normal year. Day suitable for fieldwork: 3.0. Small grains came through the winter in mostly good condition. Some areas drowned out due to excessive precipitation. Pea planting 55%; equal to last year. Potatoes 45% planted; last year 20%. Peaches 90% bloomed; 55% last year. Topsoil and subsoil moisture both surplus. Pastures supplying adequate amounts of feed.

**MICHIGAN:** There was a contrast in the weather between the upper and lower Peninsula. Precipitation was light with temperatures averaging 1° above normal across the upper Peninsula. Moderate to heavy amounts of precipitation fell over the lower Peninsula with temperatures averaging 3° below normal.

All fieldwork halted by the rain. Warm dry weather needed to dry saturated fields. Fruit trees developing normally.

**MINNESOTA:** There was a trend toward warmer than normal temperatures and below normal precipitation, except for near normal to slightly below normal temperatures in the southern portions. Temperatures averaged normal to slightly below normal for the southern third of the State and 2 to 6° above normal elsewhere. High: 71°, low: 22°. Precipitation averaged 0.39 to 0.61 in. below normal. Most stations recorded zero precipitation for the week.

An average of 3.0 days were suitable for fieldwork, but southwest averaged only 1.0 day. Topsoil moisture: 4% short, 78% adequate, 18% surplus. Small grain seeding was active on lighter soils. Anhydrous was being applied and 5% of corn ground has been prepared for planting. Winterkill of winter wheat and rye reported light except in northwest, where moderate to severe. Planted: Spring wheat 8%, 1983 1%, normal 20%. Oats: 14%, 1983 6%, normal 20%. Barley 8%, 1983 2%, normal 15%.

**MISSISSIPPI:** Average temperatures near normal. Extremes 29 and 88°. Rainfall above normal north, below south. Greatest 24-hour total 4.02 in. Tornadoes on 21st killing 15 people, injuring hundreds. Worst hit Water Valley, other towns, Schlater, Philipp, Coffeerville, Lafayette Springs, Hickory Flat, Ripley, Rienzi, Burnsville.

Soil moisture adequate to surplus. Fieldwork: 3.6 days suitable, 2.4 1983, 2.9 average. Main activities land preparation, applying fertilizer and chemicals. Plowing 50% completed, 38% 1983, 56% average. Wheat good to fair; 100% jointing, 87% 1983; 46% heading, 15% 1983. Corn fair to good; 65% planted, 25% 1983, 48% average; 40% to stand, 14% 1983. Rice 13%

planted, 8% 1983, 29% average; 0% to stand, 1% 1983, 8% average. Cotton 3% planted, 1% 1983, 9% average. Watermelons 36% planted, 18% 1983. Peanuts 8% planted, 2% 1983. Sorghum 10% planted. Feed grains short to adequate. Livestock condition fair to good. Pastures good to fair. Peach condition good to fair.

**MISSOURI:** Cool, moist air remained over the State. Temperatures averaged 7° below normal. Precipitation averaged 1.00 in. for most of the State and around 0.50 in. for the Bootheel. Columbia reported just a little over 3.00 in. for the week.

Corn planted 1%, none this time last year, 12% normal. Cotton planting not started, none this time last year, 2% normal. Topsoil moisture 24% adequate, 76% surplus. Pastures mostly fair condition. Cool weather limiting growth. Feed supplies mostly short.

**MONTANA:** Temperatures again above normal, ranging 6 to 12° above statewide. Significant rain over western portions of north central and central areas as well as some of west and southwest. Elsewhere over central areas precipitation mostly moderate. Northeast and southeast had no precipitation.

Topsoil and subsoil moisture short to adequate except eastern third, mostly short. Fieldwork: Days suitable 5.4. Winter wheat growing, condition mostly good. Barley and spring wheat 30%, oats 20% planted. Calving 85%, lambing and shearing 75% complete. Ranges growing slow. Stock water generally adequate except north central, northeast and southeast mostly short.

**NEBRASKA:** Temperatures 3° below normal Panhandle and north, 6 to 7° below normal remainder of State. Precipitation 0.25 in. north, 1.00 in. south.

Winter wheat mostly fair. Soil-borne mosaic, crown and root rot reported southern and central counties. Oat seeding 25%, 10% last year, 60% average. Topsoil moisture mostly adequate to surplus. Subsoil moisture adequate to surplus. Days suitable for fieldwork were 3.0.

**NEVADA:** Period started with sunny skies and above normal temperatures. Cooling trend occurred bulk of midweek with temperatures moderating again end of period. Extremes: 95 and 22°. Precipitation was heaviest in northeast with only scattered light amounts south. Precipitation in Sierras mostly in form of snow--up to 22 in.

Planting 1984 potato crop started. Alfalfa hay harvest continued to gain momentum slowly extreme south. Livestock movement to summer ranges progressing.

**NEW ENGLAND:** Average temperatures ran mostly within 3 or 4° of normal. Warmest the early half, coolest the latter half. Highest recorded was 72° at Ashburnham, MA, the 21st. Lowest, 19° at St. Johnsbury, VT, very early on the 22nd. Most rain fell the early part of the week. Less than 0.25 in. in northwestern ME., but generally over 0.50 in. everywhere else. Southwestern Maine, southeastern New Hampshire, and the upper Champlain Valley of Vermont received the most.

Wet conditions hampered farmer's fieldwork efforts.

**NEW JERSEY:** Temperatures averaged 3° below normal. Extremes were 26° on the 22nd and 70° on the 18th and 19th. Weekly rainfall averaged 0.84 in. north, 0.85 in. central and

0.93 in. south. The heaviest 24-hour total 0.88 in. on the 16th to 17th. Estimated soil moisture, in percent of field capacity, averaged 99% north, 97% central and 96% south. Four inch soil temperatures averaged 47° north, 50° central and 51° south.

Fieldwork: 2.8 days suitable. Cool, wet weather continues to slow crop planting and growth. Progress 10 days to 2 weeks behind normal in most areas. Peach bloom beginning. Asparagus and spinach being cut in very limited amounts. "Greens" moving to market. Topdressing fall seeded grains. Pasture and hay growth slow.

**NEW MEXICO:** Average temperatures were a little below normal in the eastern plains and near normal elsewhere. Minimum temperature +16° in central highlands, maximum temperature 91° southeastern plains. A winter storm that moved over the State on 20th and 21st brought rain and snow to the north and west. Most of the mountain areas received between 0.25 to 0.50 in. of precipitation with lesser amounts at lower elevations.

Irrigated crops rated in mostly good condition. Cotton planting continues with State average of 25% planted. Chile planting nearing completion in Mesilla Valley. Onions and lettuce in good condition. Cattle and sheep reported in fair condition. Supplemental feeding continues. Range conditions poor in all areas except northern mountain areas. Lack of moisture and spring winds continue to deteriorate soil moisture at lower elevations.

**NEW YORK:** Week cool and wet. Rainfall every day, heaviest amount first three days. Total rainfall 0.50 in. in west to over 2.00 in. in east. Thunderstorms midweek, snow flurries over Adirondacks by weekend. Temperatures below normal, mostly in the 40's. Warmest temperatures on 18th.

Plowing activity slowed by rain. Maple syrup season about over.

**NORTH CAROLINA:** Temperatures normal extreme east to 9° below normal in west. Precipitation ranged from 0.30 to 0.80 in.

Soil moisture: 47% adequate, 53% surplus. Days suitable for fieldwork: 3.1. Condition: Wheat 15% fair, 77% good, 8% excellent. Oats 2% poor, 33% fair, 61% good, 4% excellent. Barley 25% fair, 71% good, 4% excellent. Rye 2% poor, 11% fair, 80% good, 7% excellent. Pasture: 20% fair, 74% good and 6% excellent. Tobacco beds 24% fair, 74% good, 2% excellent. Irish potatoes 6% poor, 25% fair, 63% good, 6% excellent. Plantings: Spring Irish potatoes nearly complete. Corn 20%, 1983 13%, average 53%. Flue cured tobacco 5%, 1983 2%, average 24%. Cotton 4%, 1983 2%, average 5%. Major farm activities: Land preparation for spring planting, transplanting flue cured tobacco, planting corn, transplanting vegetable crops, fertilizing pastures, spraying peaches, marketing livestock, tending livestock, caring for tobacco plant beds, and equipment maintenance.

**NORTH DAKOTA:** Warm, dry week with plenty of sunshine. Temperatures averaged from 6° above normal northwest to 2° above normal southeast. Extremes from 74° central to 22° northeast. Precipitation was 0.40 in. below normal with no measurable amounts falling anywhere in the State.

Spring seeding continued or begun over most of the State. Seeding percent completed this week, last year and average: Hard red spring wheat 6, 1, 11; durum 2, 0, 5; oats and barley 3, 1, 9. Average statewide date for fieldwork to begin was April 18. Topsoil and subsoil moisture lacking in western third of State.

**OHIO:** Temperatures 6 to 10° below normal. Highs upper 50's to low 60's, lows upper 20's to low 30's. Precipitation 0.50 to 2.00 in., normals 0.70 to 0.80 in. Four-in. soil temperatures mid-40's, range from upper 30's to mid-50's.

Nearly all field activities at a halt. Most fields inaccessible due to excessive soil moistures. Soil moisture 100% surplus, 0.5 days suitable for fieldwork. Corn planted 0% 1984, 2% 1983, 5% average. Wheat height 4 in. 1984, 8 in. 1983. Wheat condition fair. Damage reported from freezing and from standing water. Pastures fair condition.

**OKLAHOMA:** Temperatures averaged 4 to 9° below normal. Precipitation ranged 0.01 in. southwest to 1.31 in. northeast.

Favorable temperatures boosted wheat growth and development. Insect activity mostly light with moderate infestations in west. Weeds continued problem. Dry weather aided row crop seedbed preparation and planting in west. Alfalfa harvest underway. Pastures greening. Wheat good, pastures good to fair, and livestock good condition. Wheat jointed: 75%; 60% 1983; 85% average. Sorghum planted: 1%; 2% 1983; 2% average. Cotton planted: 0%; 0% 1983, 0% average.

**OREGON:** Weekend was drier and warmer. Only traces of precipitation at coast. Midweek storms left up to 2.00 in. precipitation at coast and up to 1.00 in. in north central region. Rest of State received less than 0.30 in. by end of week.

Winter wheat in generally good condition. Fungicide spraying for rust underway in Willamette Valley. Spring grain seeding continues behind normal due to rains. Corn planting continues in Malheur and Umatilla Counties. Malheur County sugarbeet planting winding down. Soil moisture supplies adequate to surplus. Apples, pears and cherries in or past bloom along Columbia River and the Willamette Valley. Cool weather may hurt fruit set. Scab spraying well underway. Cranberries undergoing fertilization and spraying. Strawberries and blueberries in early bloom. Strawberries continue to look poor. Marion berries and boysenberries in early bud stage. Winter injury apparent in raspberries. Hermiston/Boardman area; onions mostly in one leaf stage; early potatoes emerged; asparagus harvest underway. Green pea seeding near Milton-Freewater. Central areas: Onions being planted; potato planting to begin next week. Klamath county preparing potato seedbeds. Malheur County: Onions approximate 80% seeded; potatoes approximate 30% seeded; fieldwork slowed by weather. In west harvesting radishes, spinach and green onions. Livestock in good condition; some movement to summer pasture. Ranges and pastures in fair to good condition; most areas need more sunny, dry weather for greenup. Spring moisture should improve summer growth.

**PENNSYLVANIA:** Cloudy, wet and cold week. Average temperature 4° below the normal of 50°. Temperature extremes 68 and 25°. Precipitation was mainly in the form of showers and thundershowers. Heaviest amounts occurred in eastern half of State. Weeks average near normal.

Days suitable for fieldwork: 1.0. Moisture mostly surplus. Activities: Repairing fences and equipment, spreading manure, plowing, top-dressing hay fields with lime and fertilizer, and planting oats, potatoes, tobacco beds and alfalfa. Plowing 11% complete, last year 22%, average 36%. Oats 11% planted, last year 11%. Potatoes less than 5% planted compared with 6%

last year. Planting tobacco beds 33% complete, last year 58%. Hay stand conditions good to fair. Feed from pastures below average to average. Peaches 0% pink, last year 8%. Cherries 0% pink, last year 11%. Apples 0% pink, last year less than 5%.

**PUERTO RICO:** San Juan mean temperatures 82.1 or 3.1° above normal. Total rainfall 0.07 in. or 0.80 in. below normal. Island data missing due to insufficient reports.

**SOUTH CAROLINA:** Colder and mostly wetter than usual, temperatures averaged 5 to 10° below normal, mostly less than 5° below normal in east. Rainfall totaled 1.00 to 1.50 in.

Soil moisture adequate to surplus. There were 3.6 days suited for field activity. Corn conditions remain fair to good, planting delay may shift some growers to soybeans; 69% planted, 37% year ago, 75% average. Cotton planting at 8%, 3% year ago, 37% average. Tobacco growers jumped at chances to transplant, reaching 76%, 23% year ago, 66% average; conditions good. Wheat fair to good condition; 20% headed this year and last, 48% average. Some diseases showing up in wheat due to wet conditions. Peaches virtually escaped hailstone damage in ridge, frost upstate; conditions good. Tomatoes started tying and pruning, condition fair to good.

**SOUTH DAKOTA:** Temperatures were near or slightly above normal. Extremes 71 and 15°. Little precipitation fell during the week. Topsoil moisture ranged from short in the west to surplus in the southeast, south central, and east central.

Winter rye in good to excellent condition. Winter wheat in fair to good condition. Some winterkill reported. Feed and stock water supplies in adequate condition. Range and pasture conditions fair to good. Calving 62% complete, lambing 70%. Thirteen percent of cattle moved to summer pasture. Spring wheat seeded 4%, 1983 1%, average 37%. Oats seeded 2%, 1983 4%, average 38%. Barley seeded 3%, 1983 1%, average 33%.

**TENNESSEE:** Temperatures were below normal averaging from 49° (Bristol) to 59° (Memphis). Precipitation was heavy in most sections of the State. Light rain fell early in the week followed by dry conditions for most of the State midweek. Heavy rains were received late on the 21st. Rainfall amounts ranged from 0.33 in. (Knoxville) to 2.50 in. (Nashville).

Farmers averaged 2.3 days for fieldwork. Corn planted 11%, 1983 5%, average 21%. Tobacco beds with plants up, 70%. Cotton planted 0%, 1983 3%, average 9%. Wheat condition 38% good, 57% fair and 5% poor. Pasture condition 32% good, 65% fair and 3% poor. Livestock in good condition.

**TEXAS:** Fair, dry weather prevailed across Texas early week. Few thunderstorms northeast. On 20th, intense springtime storm produced heavy thunderstorms north and northeast Texas. Few showers dampened southeast on 21st, northwesterly winds dry, cooler air over State. Temperatures generally 3 to 5° below normal West, East Texas, 10° above normal Upper Coast. Otherwise, normal. Rainfall near normal north central Texas, 0.10 in. below elsewhere.

**Crops:** Fieldwork progressed well during week, dry, open weather conditions prevailed. Soil moisture shortage major problem many areas. Soil temperatures beginning increase Plains, planting corn started. Crops Blacklands adequate rainfall, excellent this time. Rio Grande Valley dry, irrigation full swing. Livestock marketings

increasing. Sorghum planting gained momentum temperatures warm. Spring-like temperatures Plains, fieldwork completed. Stands Central Texas good; growth slowed lack moisture. Blackland sorghum good condition, some greenbug problems. Spraying underway. Irrigation active Rio Grande Valley, moisture condition deteriorating. Fields South Texas fair, root development hampered dry conditions. Corn planting good progress High Plains. Early-planted fields other areas cultivated, look good. Slow growth due lack moisture, Rio Grande Valley, corn beginning moisture stress, irrigation picked up. Fields Coastal Bend, South Texas currently look good; rain needed soon. Cotton planting good progress throughout week. Planting activities north into Blacklands, over Cross Timbers. Planting just beginning Trans-Pecos. Growth early-planted fields slow. Pre-plant irrigation Plains. Rio Grande Valley cotton beginning stress, irrigation picked up. Wheat, other small grains continue show moisture stress. Only exception Blacklands, adequate rainfall received, head weights expected high. Elsewhere wheat started turn color-prematurely most cases, due lack moisture, hot temperatures. Some fields cut hay due poor grain development. Rust, mildew problems slacked off due adequate spraying. Statewide wheat condition 68% of normal, compared with 84% a year ago. By week's end, 7% was reported excellent; 35% good; 44% fair; and 14% poor. Rice planting winding down, active flushing planted fields. Herbicide application underway. Emergence slow due cool temperatures. Sugarbeet planting nearing completion, early fields emerging.

Cotton planted 12% 1984, 10% 1983, 15% average. Rice planted 79% 1984, 82% 1983, 82% average; emerged 29% 1984, 30% 1983, 39% average. Sorghum planted all purposes 59% 1984, 62% 1983, 62% average. Wheat headed 16% 1984, 20% 1983, 18% average; turning color 2% 1984, 0% 1983, 0% average. Corn planted for all purposes 71% 1984, 63% 1983, 62% average. Peanuts planted 5% 1984, 10% 1983, 8% average. Sugarbeets planted 89% 1984, 81% 1983, 89% average. Sunflowers planted 0% 1984, 1% 1983, 2% average.

Commercial vegetables: Rio Grande Valley, good progress spring vegetables. Onion harvest increased. Cabbage harvest slow, light supplies reported. Citrus grove rehabilitation continues. San Antonio-Winter Garden, most spring vegetables good condition under heavy irrigation. Irrigation water decreasing. Watermelons have been planted. East Texas, some wind damage tomatoes. Sweetpotatoes good progress. High Plains, onion, potato planting nearing completion. Peach groves good sets. Some thinning started, because moisture shortage. Spraying underway. Pecan trees currently sprayed zinc. Most trees past bud break stage.

Range and livestock: Ranges showing some greening; growth slowed due drought conditions. Most ranges providing little grazing. Irrigated wheat pastures High Plains providing good grazing. Coastal, alfalfa crops planted; dry conditions slowed growth. Livestock markets increasing. Livestock conditions fair to good, despite shortage grazing. Lamb crop below normal some areas this spring. Lice, hornfly problems alleviated.

UTAH: Precipitation moderate to heavy in mountainous and western parts, light to moderate southeast, and zero to light Dixie and Uinta Basin divisions. Maximum temperatures averaged 6° above normal, ranging from normal to 10° above. Minimums averaged 3° above normal (except Dixie, 7° above), ranging 3° below normal to 7° above.

With 5.3 days suitable for fieldwork considerable progress made in spring land preparations. Barley 48 to 50% planted. Spring wheat 39 to 40%, oats 29 to 30%. Winter wheat condition fair. Range and pasture feed fair to good. Most spring range too wet for grazing. Sheep shearing 50% complete. Calving and lambing 60 to 66% complete. Death losses high especially in northern counties.

VIRGINIA: Near normal temperatures during period. Precipitation averaged about 0.75 in. Highs were in 60's and 70's. Low temperatures generally in upper 30's and 40's.

Topsoil moisture 39% adequate, 61% surplus with days suitable for fieldwork down to 1.3. Corn seeding was 18% complete, 12% last year, 28% average. Potato planting 72% complete, 66% 1983, 95% average. Wheat, pasture and tobacco condition was good to excellent. Some nitrogen leaching on small grains reported. Growth, fertilization and spraying slowed by cool, wet conditions. Fruit prospects good, blooming late. Spraying continues. Livestock in good condition, moving onto pastures. Feeder sales active.

WASHINGTON: The 14th's weather pattern result of deep low pressure located Gulf of Alaska and building high pressure over State. Air was dry and warm and easterly wind flow over State increased as low moved closer and high over Idaho on 15th strengthened. Under mostly sunny skies strong easterly flow, temperatures over State climbed into high 70's and 80's, setting record highs west of Cascades. Moist unstable air spread over State on 16th, and showers produced measurable rain most localities remainder of week.

Cool, wet weather continues to delay field preparation and planting activities many areas. Fall-seeded small grains in average to above average condition. Some small grain reseeding occurring. Stripe rust present some wheat fields. Planting potatoes and spring wheat and barley continues. Field corn planting has begun. Western areas, green chopping underway. Raspberries in good condition and making good growth. Blueberries in various stages of bloom, depending on variety. Peaches and nectarines at full bloom, while pears approaching full bloom. Sweet corn planting lower Yakima Valley progressing well. Warm weather accelerating asparagus harvest. Green pea planting remains behind schedule. Western counties, broccoli, cauliflower, and seed beets being planted. First crop radishes being harvested. Ranges, pastures and livestock in good condition, although weather limiting forage growth. Western counties, wet conditions continue to delay pasturing.

WEST VIRGINIA: Temperatures were near 8° below normal across the State except for the north central and northeast which averaged 4° below normal. Precipitation well above normal, ranging from 0.26 in. in the northeast to 2.21 in. in the southwest.

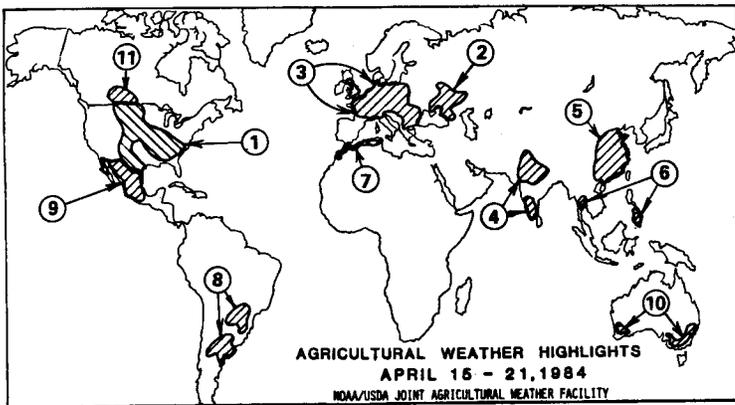
Soil moisture surplus. Days suitable for fieldwork averaged 0.6. Main activities: fencing and working livestock. Feed supplies adequate to short.

WISCONSIN: Cloudy, generally damp weather persisted over the southeast half of the State, while the west and northwest saw periods of sunshine. Weekly highs generally averaged in the 50's with lows in the 30's, however, highs in the 60's were recorded on the 20th. Rain accumulations of over 1.00 in. occurred in the extreme southeast with no precipitation reported

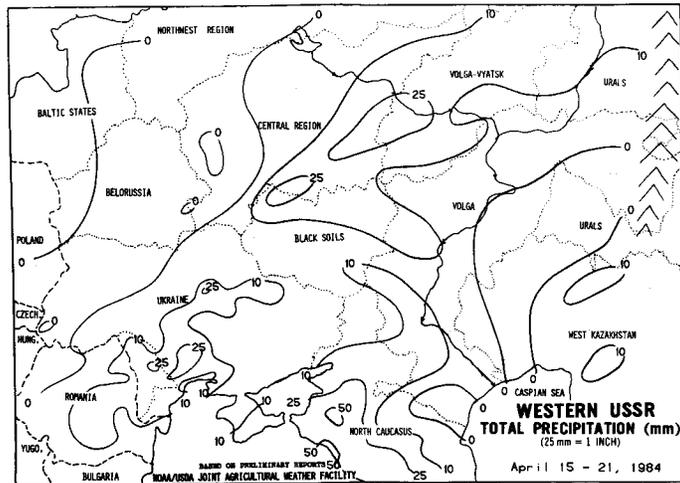
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## International Weather and Crop Summary

April 15 to 21

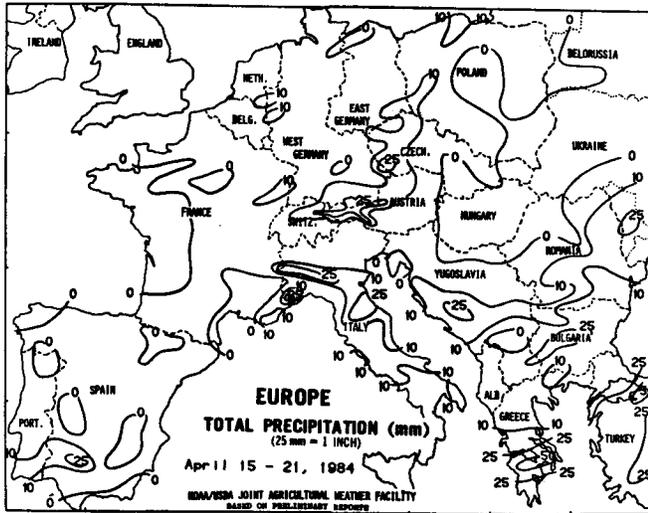


1. UNITED STATES ... Continued cool, wet weather over the Nation's midsection further delays land preparation and planting. Dryness stresses some crops and ranges over the southwestern Plains, while unusual mildness favors early planting of spring wheat in the northern Plains.
2. WESTERN USSR ... Significant showers benefit winter grains and newly emerged spring crops in the northern Black Soils and western North Caucasus. Spotty showers provide limited relief to crops stressed by continued dryness in the eastern Ukraine, northern North Caucasus, and southern Volga Valley.
3. EUROPE ... Moisture conditions for early crop growth appear good in England, France, and much of the southeast. Showers are needed in remaining crop areas, especially Poland and Hungary, for early growth.
4. SOUTH ASIA ... Clear weather allows wheat harvesting to continue. Rains persist in the south.
5. EASTERN ASIA ... Beneficial rains continue in most rice areas. Persistent dryness in the north is causing concern for the winter wheat.
6. SOUTHEAST ASIA ... Premonsoon rains may allow some early planting in Thailand's rice areas. Adequate moisture exists for rice in the south Philippines.
7. NORTHWESTERN AFRICA ... Showers maintain satisfactory yield prospects for winter grains in northeastern Algeria and northern Tunisia. Showers and cooler weather are needed in Morocco and northwestern Algeria to halt potential yield declines.
8. SOUTH AMERICA ... Locally heavy rain causes further harvest delays in Argentina and southern Brazil. In Argentina, corn is reported to be 85 percent harvested, sorghum is 70 percent harvested, sunflowers are 85 percent harvested, and soybean harvesting is just underway. Dry weather is needed throughout the summer crop areas.
9. MEXICO ... Continued sunny, dry weather aids fieldwork but depletes critically short soil moisture in some nonirrigated areas.
10. AUSTRALIA ... Showers cover all wheat areas with the heaviest weekly amounts occurring over New South Wales and southeastern Queensland. Land preparation is underway for wheat planting which begins in May.
11. CANADA ... Very warm and mostly dry weather aids fieldwork for spring crop planting but limits topsoil moisture supplies. (Detailed weekly summaries will begin next week).



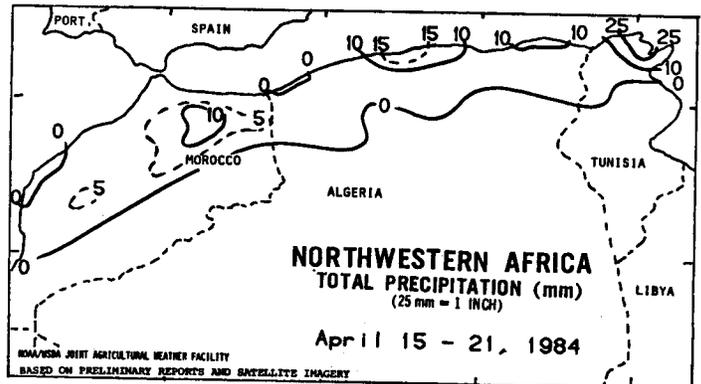
**WESTERN USSR...**Mostly dry weather covered the Baltic States, Belorussia, and the western Ukraine, while showers covered crops over the remainder of the region. Rainfall amounts in excess of 10 mm were mostly concentrated in the central Ukraine, western North Caucasus, northern Black Soils, and Volga Vyatsk region. The precipitation which fell on the northern Black Soils and the western North Caucasus was the first significant rainfall since the beginning of April.

benefiting winter grains in the vegetative stage and newly emerged spring crops. In the southern Black Soils, eastern Ukraine, northern North Caucasus, and southern Volga Valley, precipitation was lighter and scattered, providing limited relief to crops stressed by continued dryness. Soaking rains are needed to improve growing conditions in these areas. Weekly temperatures were above normal across the region. Winter grains are in the vegetative stage across the south, and are breaking dormancy across the north.

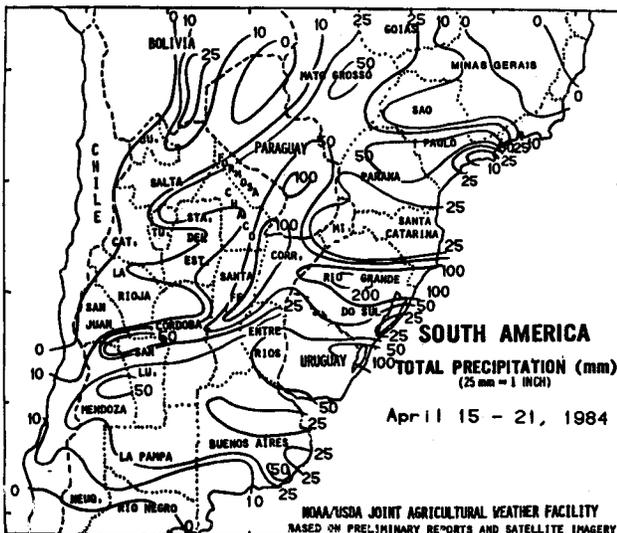


**EUROPE...**A generally light precipitation pattern covered most crop areas, except for a narrow band of heavier showers (10-25 mm) which stretched eastward from northern Italy through central Yugoslavia and central Romania. In the north, most of the moisture fell early in the week and dry weather immediately followed, allowing fieldwork for spring seeding to progress with few delays. Winter grains have broken dormancy, and are in the vegetative growth stage over the region. However, the crop is in the heading stage in the extreme south. Moisture conditions for early growth appear good in England, France, and much of the southeast. However, showers are needed soon in remaining crop areas, particularly Poland, Hungary and Czechoslovakia to ensure a good start to this year's growing season.

crop. In Brazil, very heavy rain (100-200 mm) fell in southern Rio Grande do Sul flooding the southern half of the state's soybean area. Soybean harvesting is over 45 percent complete in Rio Grande do Sul. Showers also fell further north in Parana and Mato Grosso do Sul, slowing late soybean harvesting. Mostly dry weather in Sao Paulo and Minas Gerais aided maturing coffee, but moisture is limited for early wheat planting in these northern crop areas.



**NORTHWESTERN AFRICA...**Showers covered winter grain areas over much of the region. Precipitation amounts around 10 mm were mostly concentrated in northeastern Algeria and northern Tunisia. Precipitation was lighter and more scattered in Morocco and northwestern Algeria. Rainfall in these areas was not enough to meet the high moisture requirements of the winter grain crop, which is normally in the early filling stages now. Hot weather accompanied the meager precipitation pattern, with daytime highs around 35° C reported by the end of the week. The hot weather increased evaporation rates, further stressing the crop. Yield prospects remain satisfactory in northeastern Algeria and Tunisia, but widespread showers and cooler weather are needed in Morocco and northwestern Algeria to prevent crop deterioration.



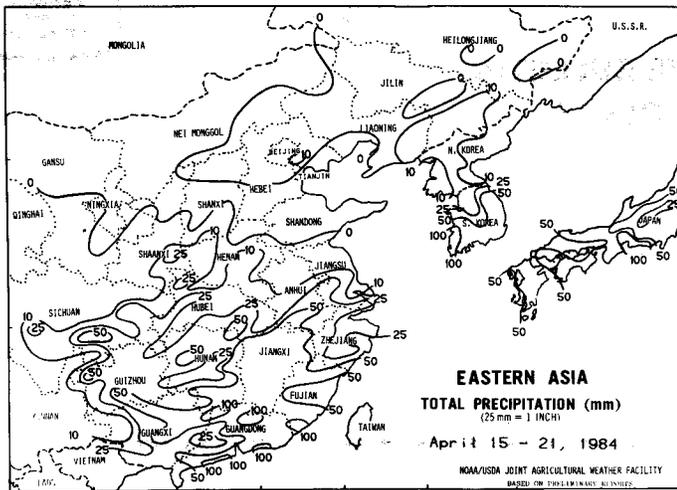
**SOUTH AMERICA...**Wetness continues to hamper harvesting throughout much of the summer crop areas of Argentina and southern Brazil. In Argentina, frequent showers slowed the corn, sorghum, and sunflower harvests which are reported to be 85, 70, and 85 percent complete, respectively. Early soybean harvesting was also delayed by the rain. In northeastern Argentina, heavy rain (50-150 mm) fell from northern Entre Rios through Corrientes, likely causing flooding along the already swollen river systems. More rain fell over the already damaged, mature cotton



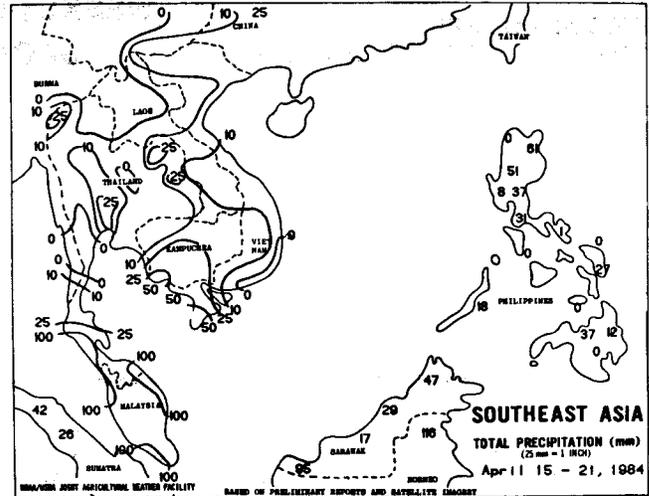
**MEXICO...**Sunny, warm weather continued over most areas, favoring field activities but further depleting soil moisture. Rainfall was generally limited to the state of Veracruz where amounts were mostly light, slightly aiding coffee, sugarcane, and citrus. Temperatures became very hot (reaching 40-44° C during the afternoon) ahead of a cold front moving through the northeast on the 20th and 21st, greatly stressing some rainfed crops, rangeland vegetation, and

livestock. However, temperatures dropped to pleasant levels as the front moved into the Gulf of Mexico. Showery weather slowly increased over a few sections in Central America, but the activity appeared to be lighter than the usual onset of the rainy season.

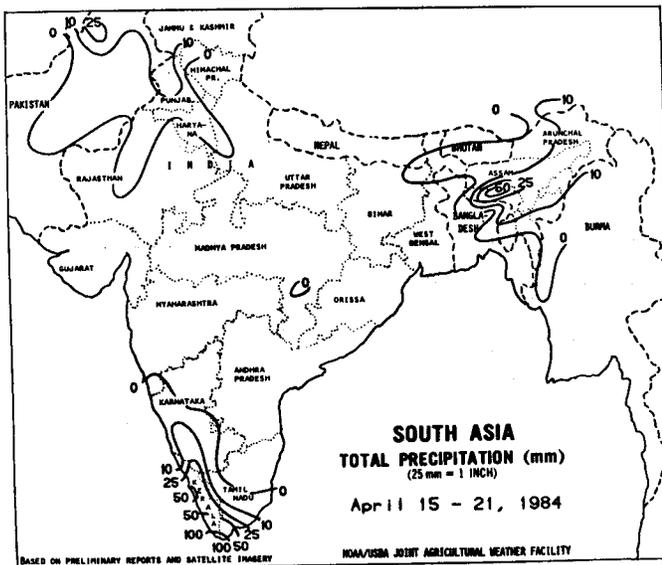
wheat should be mature, however, temperatures as high as 38° C (100° F) in Punjab stressed any remaining immature wheat. Moderate to heavy rains (50-170 mm) fell in Kerala, with lighter amounts extending up the western coast. Precipitation has been above normal in this area benefiting summer rice, and temperatures have been cooler than normal across the south.



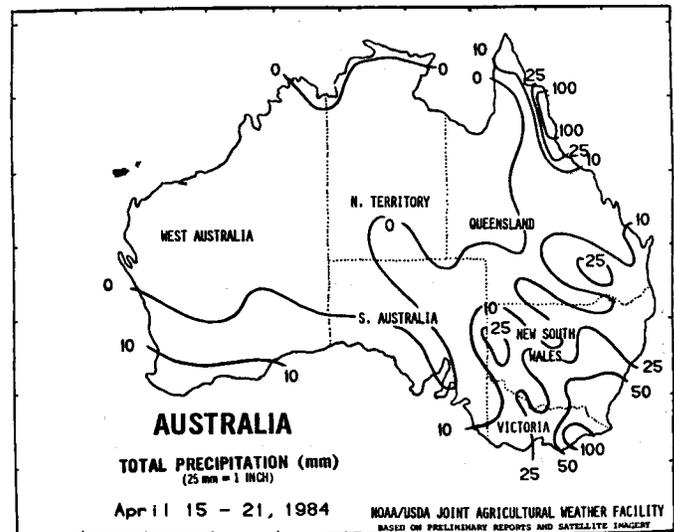
**EASTERN ASIA...** Precipitation continues to benefit most of the rice region in southern China. Moderate rain (25-75 mm) covered most of the area south of the Yangtze River. Early rice is nearing the reproductive stage with mostly favorable moisture supplies. Heavy rain (100-200 mm) fell in coastal Guangxi, Guangdong, and Fujian, producing some localized flooding. Wetness in the Yangtze Valley has slowed planting progress of intermediate rice, cotton, and corn. Rainfall pushed further north this week into the wheat areas in Shaanxi, Henan, and Jiangsu benefiting wheat entering the heading stage. Dry weather persisted in much of Shandong, Hebei, and Shanxi stressing nonirrigated wheat. Dry weather in the Manchurian Valley, where moisture supplies are adequate, aided summer crop planting. Temperatures averaged near to slightly above normal in most of China's crop areas this week.



**SOUTHEAST ASIA...** Premonsoon rains have begun in Thailand. The corn and main rice planting seasons depend on timely rain beginning in May. The important south-central rice area has received above-normal premonsoon precipitation and some early planting may have begun. Recent rains have improved moisture supplies in central and northern areas where planting may soon begin. Rice planting normally begins in April and May in the southern and northern Philippines respectively, coinciding with the northward progress of the rains. Precipitation has been near-normal in the central and southern islands. Recent rains in the north have improved moisture supplies.



**SOUTH ASIA...** Mostly dry weather favored wheat harvesting this week. Showers fell late in the week but were light and limited to northern Pakistan and India. Temperatures continue to be above normal in central and northern India. Most



**AUSTRALIA...** The winter wheat planting season usually begins in early May and extends through June across Australia's grain belt. Optimal planting for wheat is achieved by June 15, assuming favorable conditions. Preseason moisture accumulations during the past few months have provided adequate subsoil moisture reserves, while generally favorable weather recently has permitted

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land cultivation. During the week showers covered nearly all wheat areas. Weekly rainfall amounts were generally light (less than 15 mm) in Western Australia and South Australia. These areas produce nearly 30 percent and about 10 percent, respectively, of the total wheat crop. The storms intensified over southeastern Australia bringing 15-30 mm of rain to most wheat areas of Victoria, Queensland, and New South Wales. New South Wales is the leading wheat producing state, averaging about 40 percent of the total crop.

(continued from p. 16)  
in the northwest. Wet, slushy snow from 1 to 2 in. visited southern areas on the 22nd.

Oats were 20% planted, ahead of the usual 15%, while spring plowing was reported at 19% complete ahead of the usual 13%. Most activity occurred on the sandier soils and higher ground. The precipitation brought work to a halt as only 3.0 days were suitable for fieldwork.

**WYOMING:** Temperatures much above normal except southeast. Precipitation near normal except extreme eastern sections. Northeast received none. Southeast 1.00 to 2.00 in. above normal.

Topsoil moisture adequate 88% State. Days suitable for fieldwork: 4.0. Spring planting progressing slower than normal. Acreage planted: Spring wheat, 25%, normal 36%; oats, 20%, normal 33%; barley, 45%, normal 54%; corn, 5%, normal small amount; sugarbeets, 20%, normal 60%. Contract disputes slowing sugarbeet planting. Acreage emerged: Barley 10%; spring wheat 5%; oats 5%, winter wheat fair to good condition. Wind, freeze damage, none to light most areas. Fertilizer supplies adequate throughout State. Livestock fair to good condition. Spring calves born 70%. Farm flock: Ewes lambed 70%; shorn 30%. Range sheep: Ewes lambed 30%; shorn 35%. Calf, lamb losses light to normal. Pastures fair to good condition. Supplemental feeding continues in areas with snow cover.

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