

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

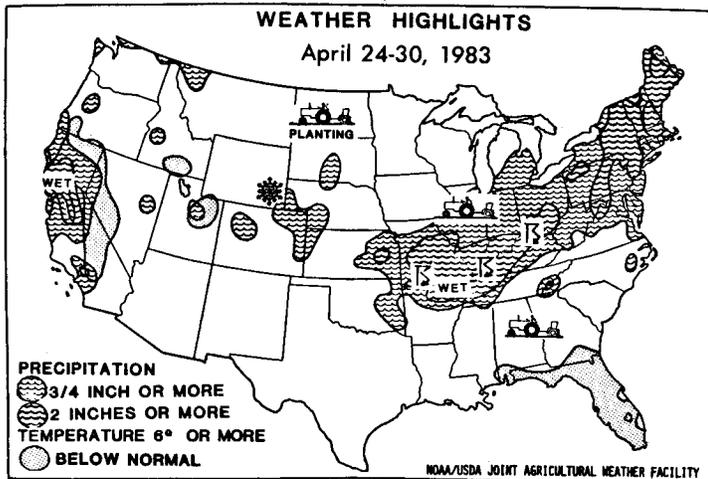
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May 3, 1983

National Weather Summary

April 24 to 30



TUESDAY...Light rain diminished over the Northeast, but a storm system developing in the central Rockies spread rain, with snow at high elevations, through that area and light rain into the central Plains. Light rain fell on the Pacific coast from central California through Washington and into the northern Rockies where the rain was mixed with snow.

WEDNESDAY...A cold front moved rapidly to a line from northern Ohio to western Oklahoma and triggered showers and thunderstorms along and behind it. Thunderstorms became quite severe from eastern Kansas into Illinois. Lighter showers fell in Nebraska and South Dakota, while snow covered North Dakota and the northern and central Rockies. A Pacific front moved onto the California coast and spread showers from central California to the Oregon coast.

THURSDAY...The cold front moved rapidly to New England but became stationary from the Ohio Valley into Oklahoma. Showers fell all along and behind the front through the Great Lakes, the northern Mississippi Valley, and the central Plains to Nebraska. Severe weather raged ahead of the front from southern Missouri through northern Kentucky. Snow early in the day changed to rain in the northern and central Rockies. The Pacific storm spread showers throughout California and Oregon and onto the central Plateau.

FRIDAY...The weather front became near stationary from New England through Pennsylvania, the Ohio Valley, southern Missouri, and into New Mexico. Severe weather hit again from southern Missouri through western Kentucky. Tornadoes, hail, and heavy rain damaged property and flooded parts of the area. Light to moderate showers and thunderstorms occurred behind the front from northern Missouri to Pennsylvania and New York to New England. Light rain fell in the central Plains and Rockies. The Pacific front triggered heavy rain

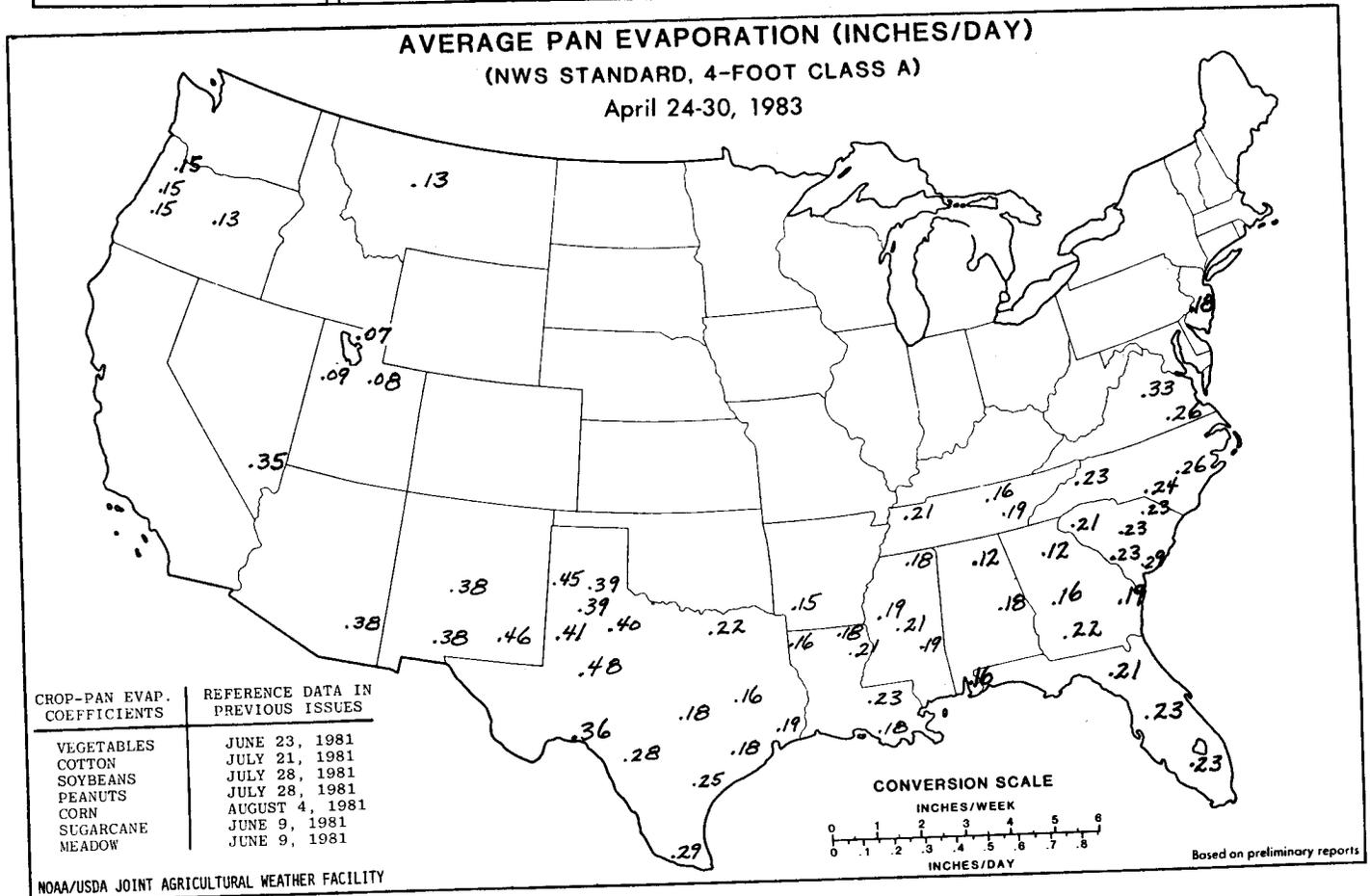
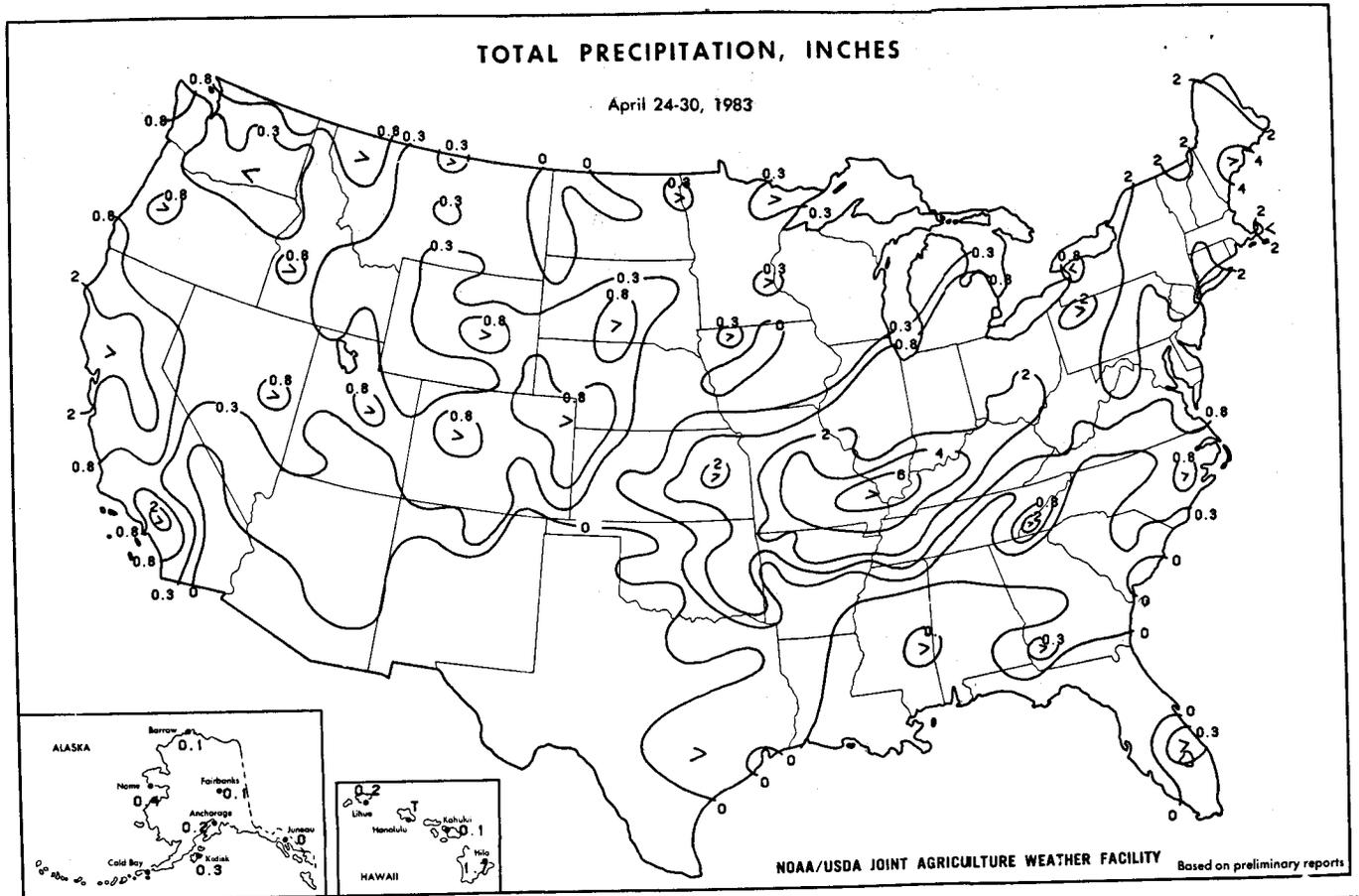
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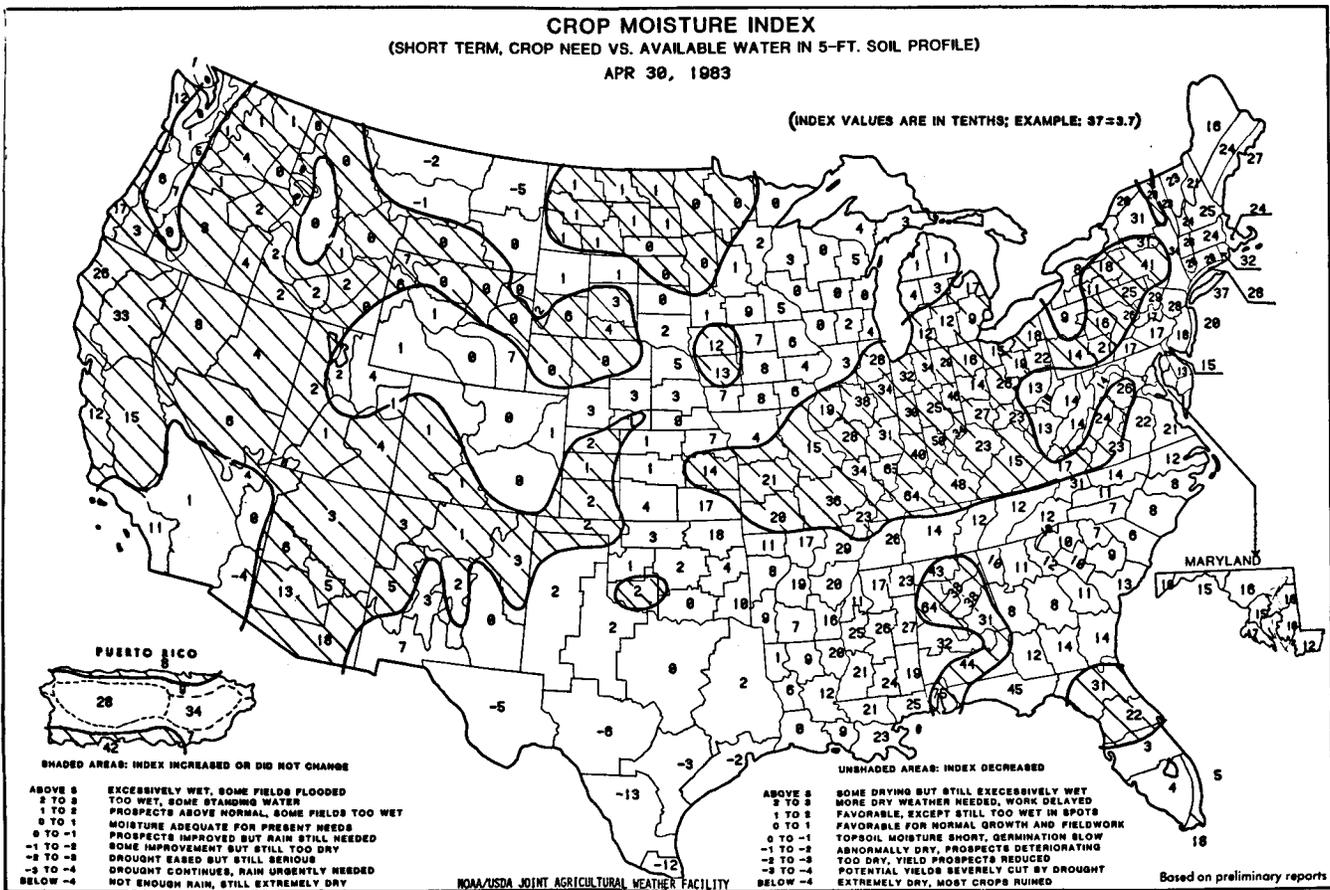
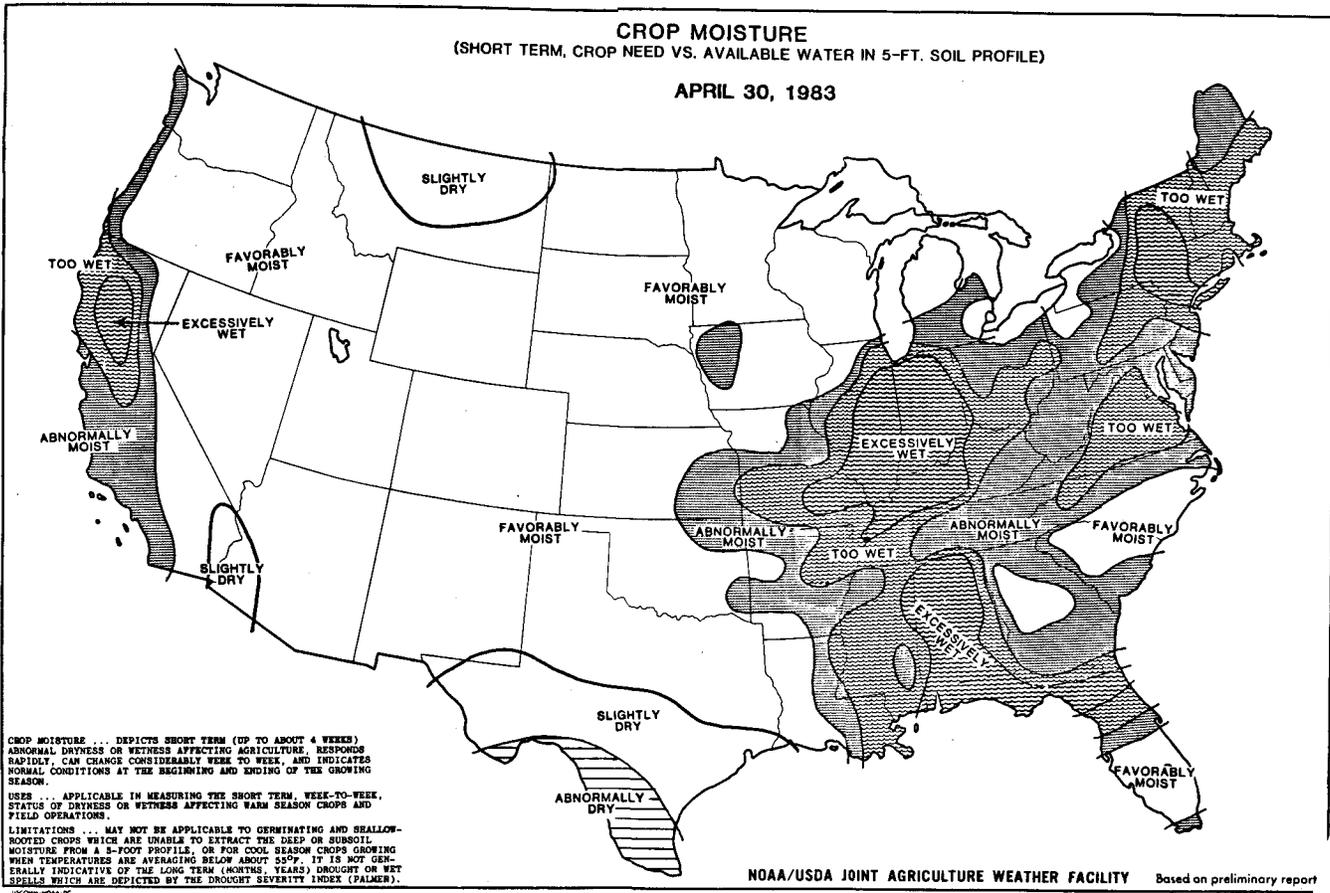
HIGHLIGHTS: A little rain fell in the Southeast early in the week with heavier amounts in the Northeast. Most of the South, the Corn Belt, and the central and southern Plains were without rain until midweek. A cold front moved rapidly to a line from New England to southern Missouri and Oklahoma and became stationary the rest of the week. Showers and thunderstorms raged along, ahead of, and well behind the front. Severe weather spread tornadoes, hail, and heavy rain from southern Missouri into the lower Ohio Valley. Pacific storms moved onto the west coast in a more southerly path than usual, spreading moderate to heavy rain over much of California and lighter rain over the Plateau and the central and northern Rockies. Snow fell over the northern Rockies and into the northern Plains early in the week and at higher elevations of the Plateau and Rockies later in the week.

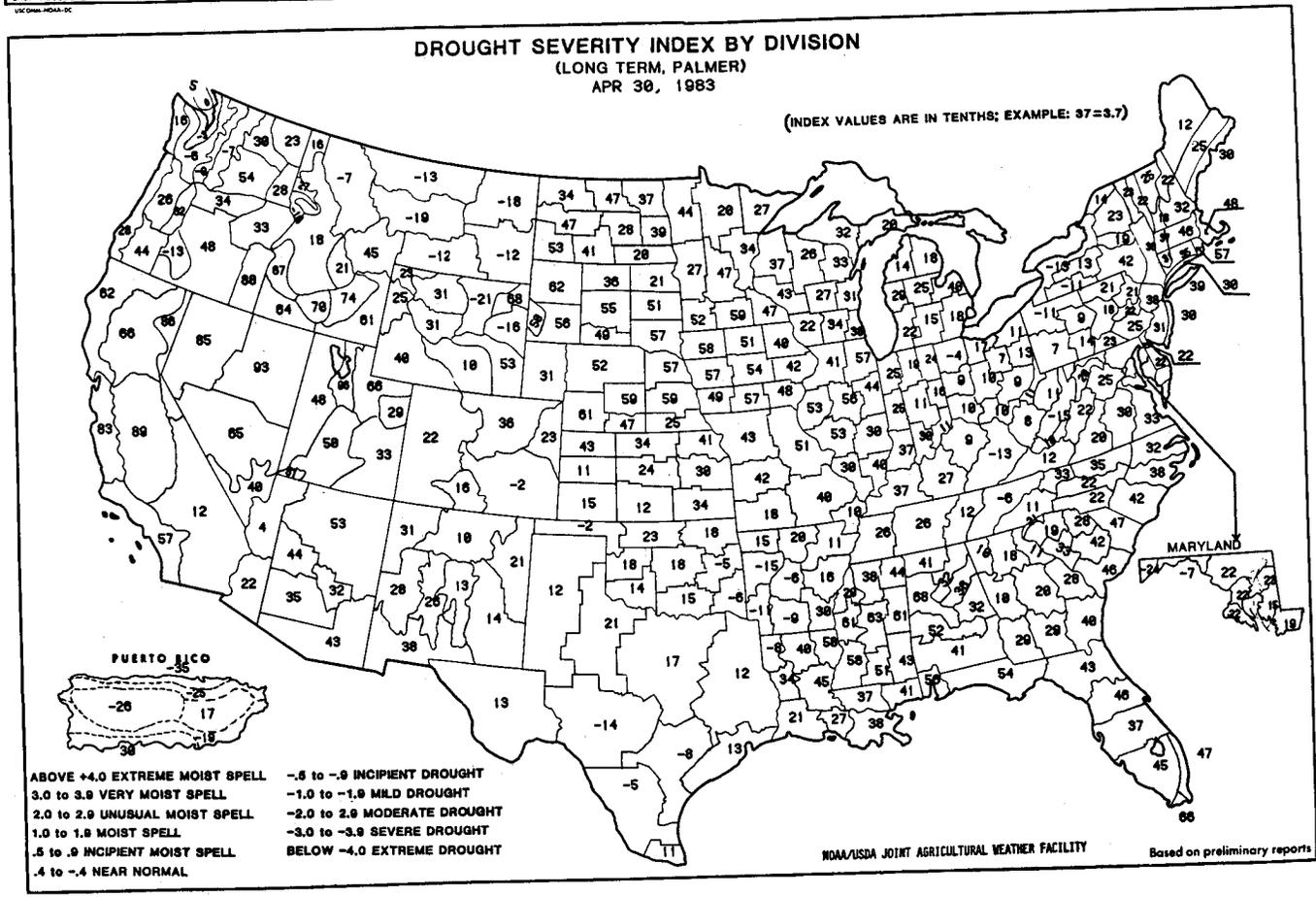
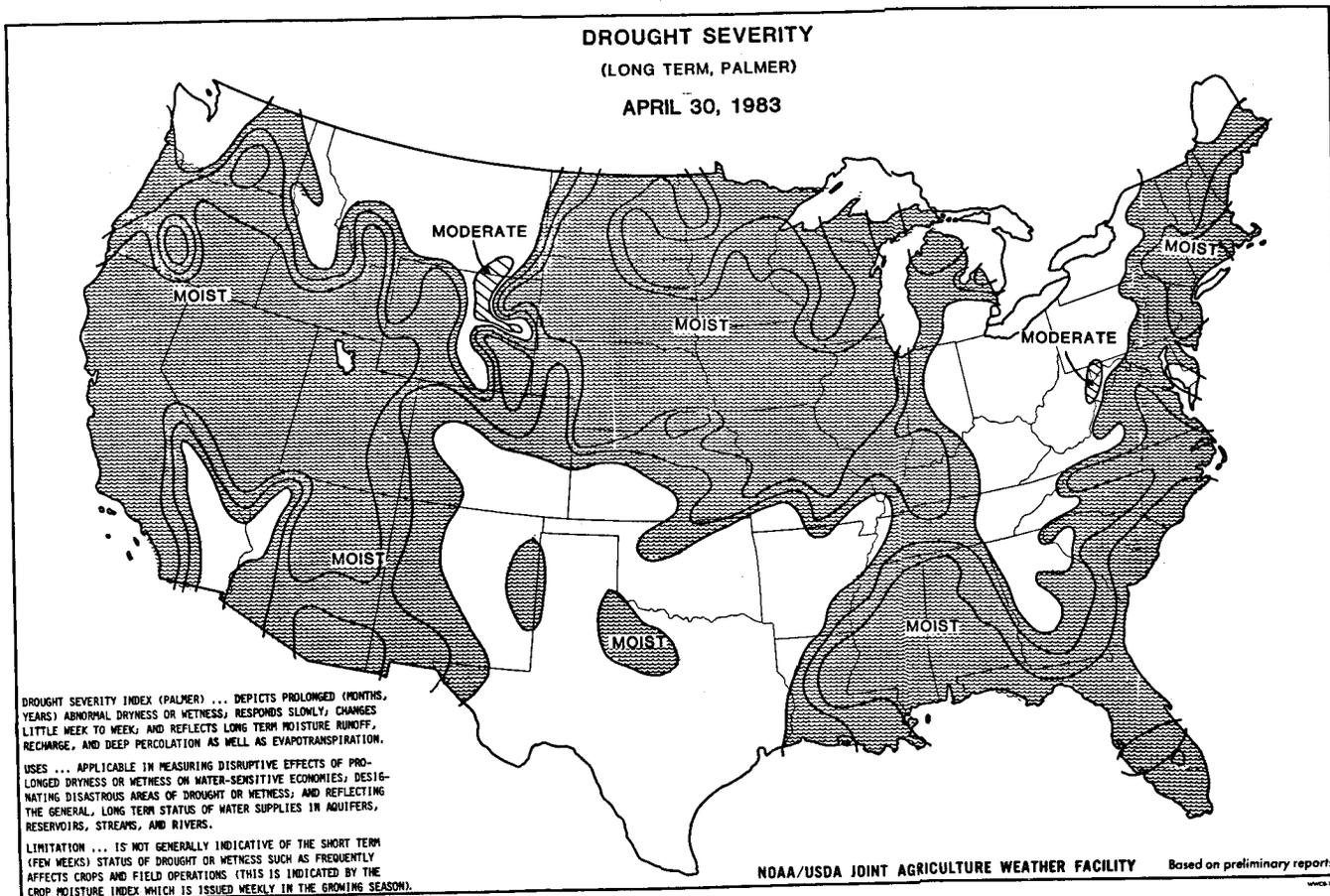
SUNDAY...A storm system moving up the east coast caused light rain over the Southeast and moderate to heavy rain in the Northeast. Very heavy amounts along the New England coast caused local flooding. Showers spread through the Northwest to the northern Rockies and into the Plains. Some moderate amounts fell in the northern Rockies and in northern California. Lighter rain reached to the southern California coast.

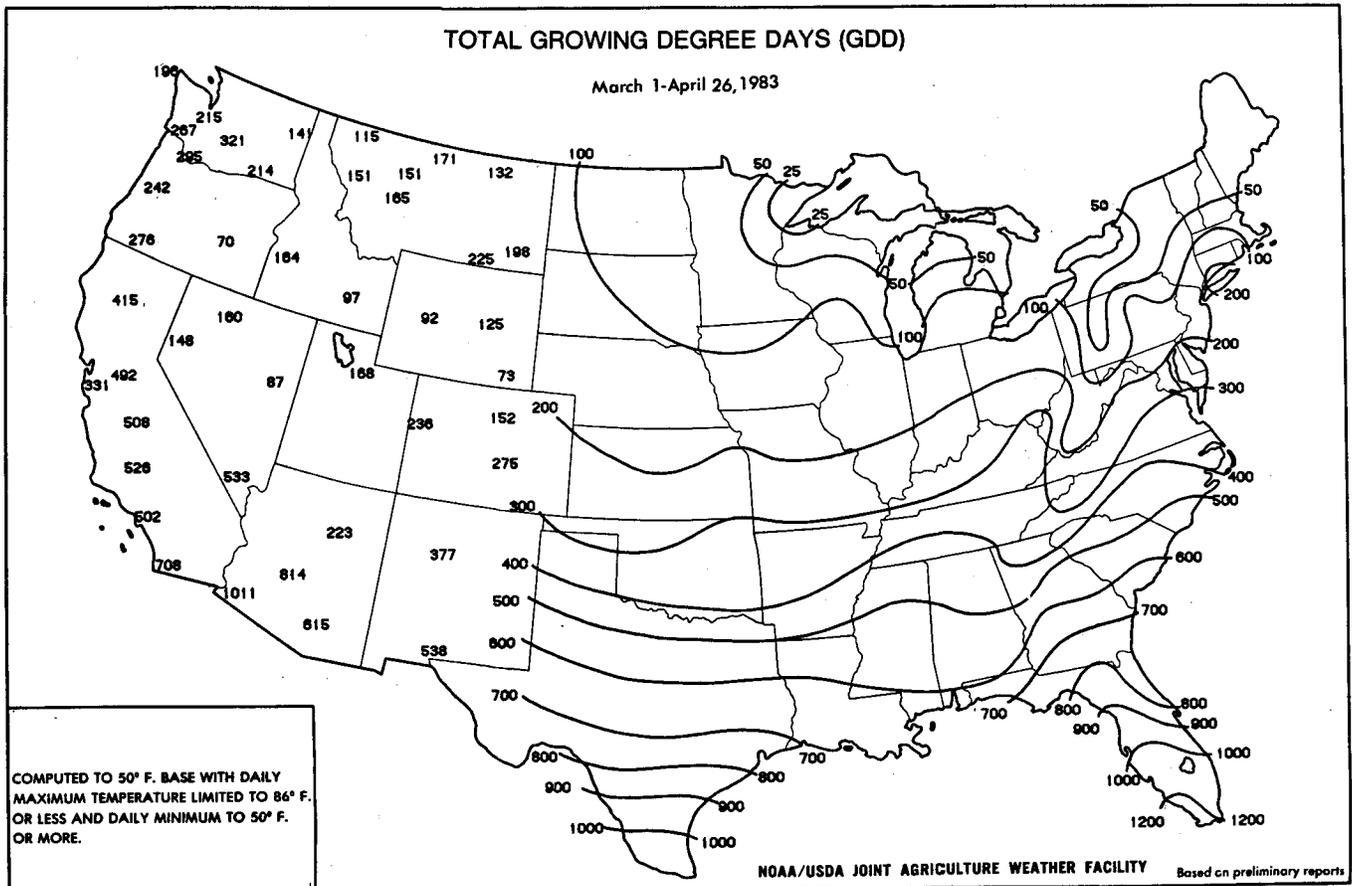
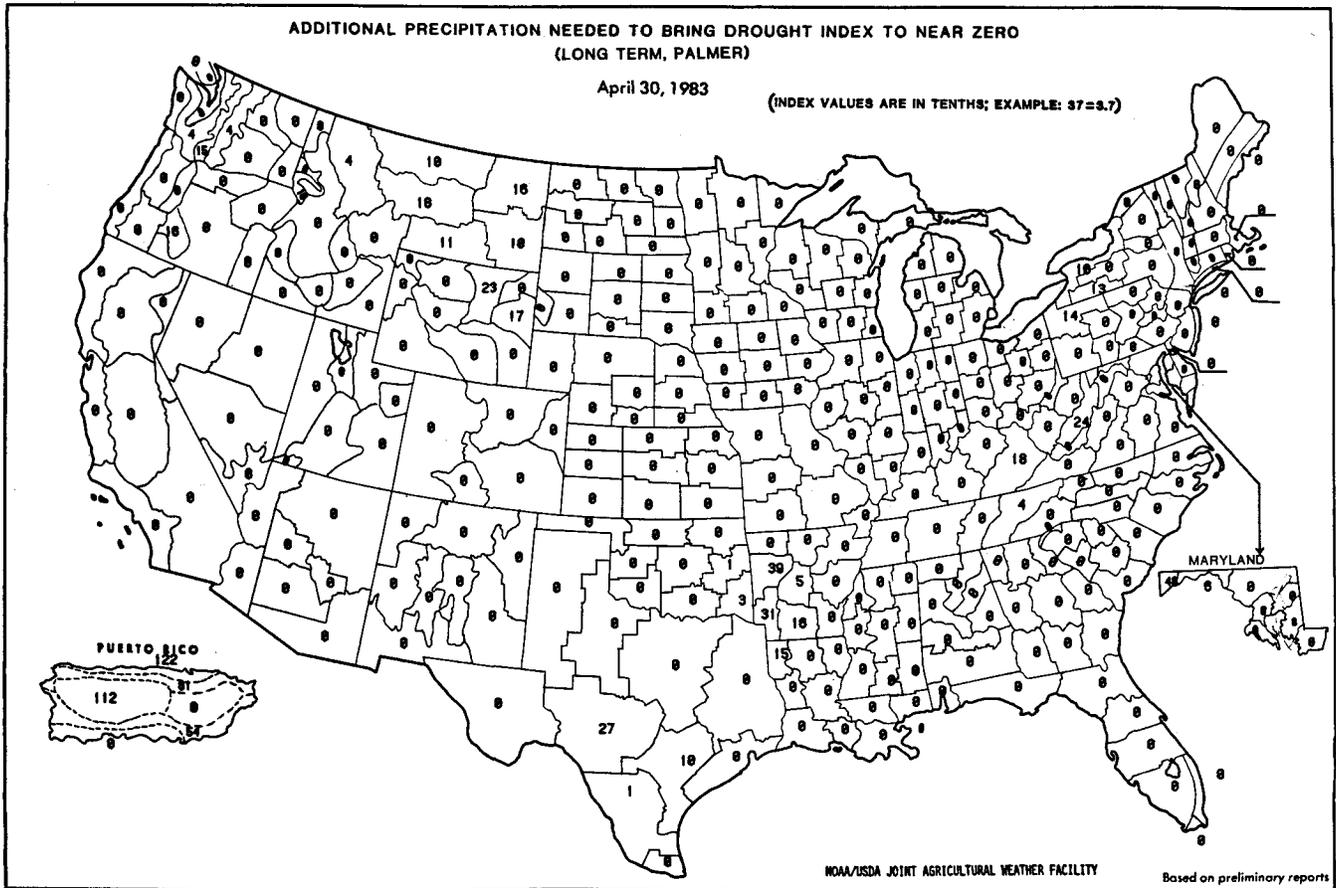
MONDAY...Showers continued in New York and New England with moderate rain falling in central New England. Rain continued to fall over the Pacific Northwest reaching south to northern California and east into the northern Plains. Freezing temperatures covered the Great Lakes area, and cooler than normal weather reached southward into the lower Mississippi Delta.

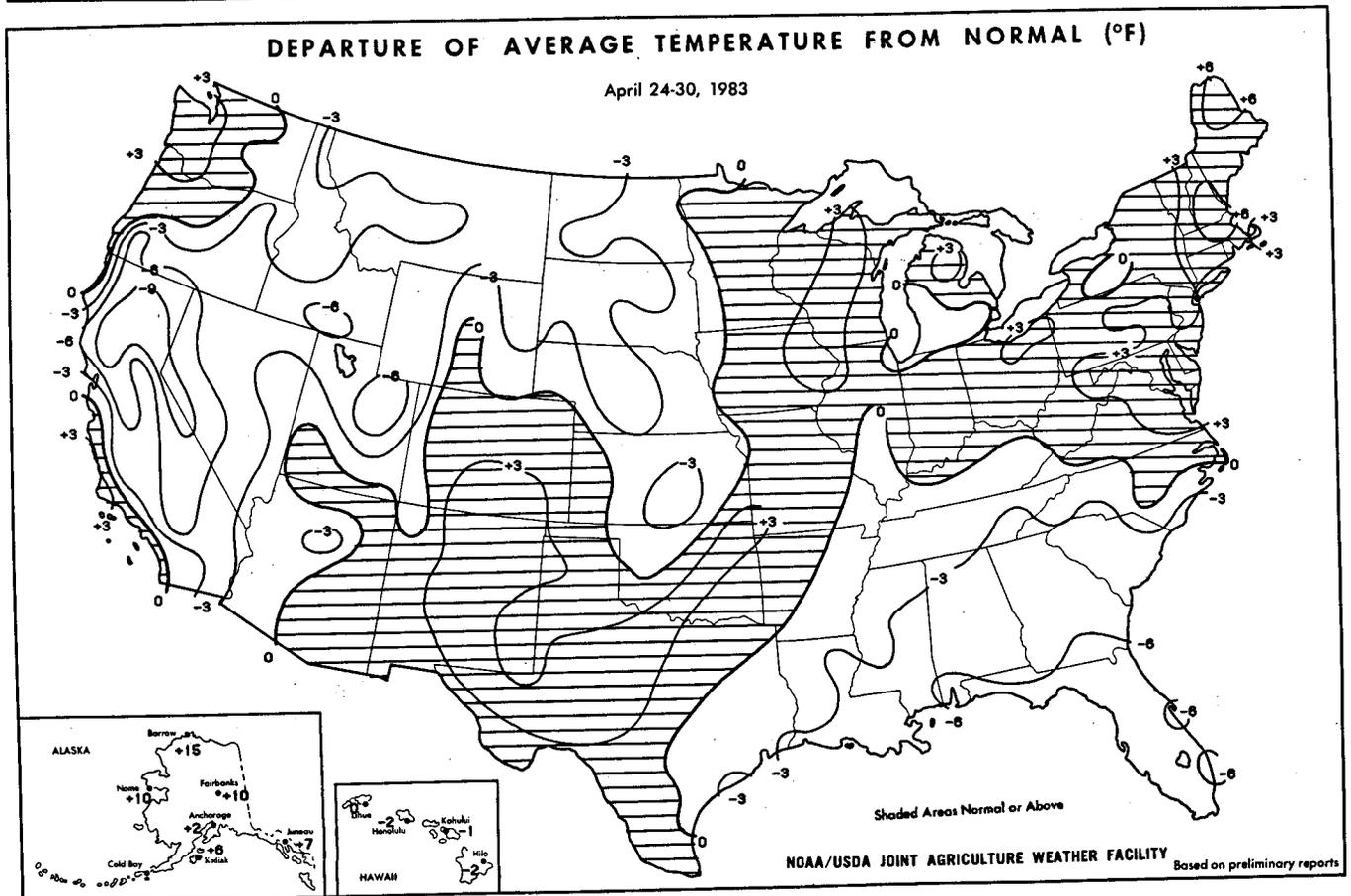
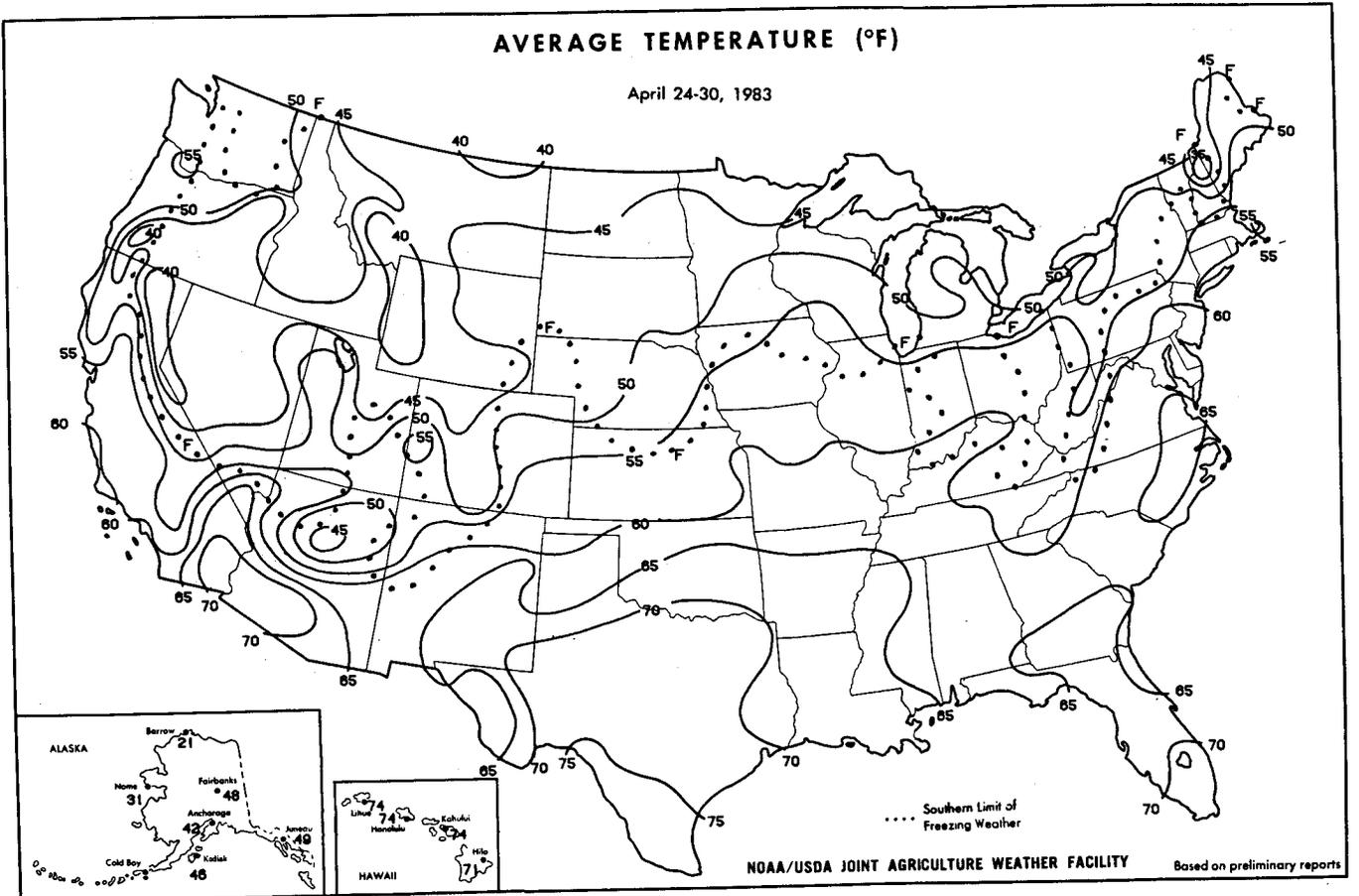
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Weather Data for the Week Ending April 30, 1983

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Feb. 27	PCT. NORMAL SINCE Feb. 27	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE °F		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	78	47	83	38	63	-3	T	-1.1	T	14.4	107	25.6	117	87	26	0	0	0	0
MOBILE	76	53	78	46	64	-6	0	-1.2	0	22.3	160	37.2	170	92	40	0	0	0	0
MONTGOMERY	80	47	85	40	63	-5	0	.9	0	21.6	183	34.4	180	91	31	0	0	0	0
AK ANCHORAGE	51	33	54	30	42	2	2	.1	.2	1.2	100	1.7	59	89	53	0	4	2	0
BARROW	25	16	35	5	21	15	.1	.1	.1	.2	33	.3	27	95	79	0	7	2	0
FAIRBANKS	58	37	63	30	48	10	.1	0	.1	.3	38	.7	39	71	30	0	1	2	0
JUNEAU	61	37	68	33	49	7	0	.7	0	3.1	42	8.4	60	95	43	0	0	0	0
KODIAK	52	40	62	37	46	6	.3	-1.2	.2	10.9	108	27.6	147	90	57	0	0	2	0
NOME	38	30	40	25	34	10	.4	.3	.4	1.4	78	1.6	48	79	66	0	6	3	0
AZ PHOENIX	86	62	90	58	74	3	T	0	T	3.3	275	5.2	208	47	13	1	0	0	0
PRESCOTT	63	40	67	35	52	-1	.1	0	.1	3.4	148	4.9	100	76	31	0	0	1	0
TUCSON	83	54	89	49	69	1	0	0	0	1.5	125	4.2	162	47	13	0	0	0	0
YUMA	83	60	88	54	72	-2	0	0	0	.2	50	1.3	144	49	19	0	0	0	0
AR FORT SMITH	79	55	86	36	67	2	.1	-1.0	.1	4.9	54	8.0	60	90	48	0	0	3	0
LITTLE ROCK	74	57	80	46	65	-1	.3	-1.0	.2	10.8	91	14.7	78	76	50	0	0	2	0
CA BAKERSFIELD	71	50	73	43	60	-5	.3	.2	.2	3.1	172	6.6	200	93	37	0	0	3	0
EUREKA	60	44	64	41	52	2	1.6	1.1	.9	16.2	182	34.0	167	95	68	0	0	7	1
FRESNO	70	51	75	45	60	-2	1.7	1.5	1.3	8.0	250	16.1	256	88	36	0	0	5	1
LOS ANGELES	66	53	68	44	60	-1	.4	.3	.2	9.6	310	19.4	252	86	56	0	0	3	0
RED BLUFF	61	46	68	41	53	-8	2.6	2.4	1.1	15.1	343	28.3	250	93	57	0	0	5	2
SACRAMENTO	61	46	62	42	53	-7	2.8	2.6	1.4	11.8	288	21.1	215	94	61	0	0	1	0
SAN DIEGO	68	59	72	57	64	2	.5	.3	.5	8.9	330	14.2	245	78	51	0	0	1	0
SAN FRANCISCO	60	50	63	46	55	-1	1.7	1.5	.7	12.8	261	25.6	223	87	57	0	0	6	1
CO DENVER	64	41	76	38	53	2	.5	0	.3	6.7	186	6.9	164	83	32	0	0	4	0
GRAND JUNCTION	68	46	79	40	57	2	.7	.5	.5	2.9	171	4.1	146	72	28	0	0	3	1
PUEBLO	73	44	81	37	58	3	.1	-.2	-.1	3.2	145	3.8	146	90	25	0	0	1	0
CT BRIDGEPORT	63	46	75	40	55	2	1.9	1.0	.9	15.4	179	27.6	211	86	60	0	0	1	1
HARTFORD	69	46	88	34	57	4	1.5	.6	1.3	15.6	168	25.0	171	79	43	0	0	3	1
DC WASHINGTON	73	51	88	41	62	1	.9	-.2	.8	11.9	163	16.9	144	79	40	0	0	2	1
FL APALACHICOLA	74	53	77	46	64	-7	0	-.7	0	17.6	200	26.7	185	89	50	0	0	0	0
DAYTONA BEACH	76	51	80	47	64	-8	0	-.5	0	13.9	228	22.4	213	96	42	0	0	0	0
JACKSONVILLE	77	48	82	45	63	-7	0	-.9	0	13.2	165	24.6	185	92	37	0	0	0	0
KEY WEST	79	69	81	64	74	-5	.2	-.3	.2	8.7	249	29.8	452	70	52	0	0	1	0
MIAMI	81	60	83	55	70	-6	.1	-.9	.1	7.5	129	18.2	198	81	40	0	0	0	0
ORLANDO	80	56	85	48	68	-6	0	-.6	0	9.6	152	19.5	179	89	36	0	0	0	0
TALLAHASSEE	80	47	83	39	64	-6	0	-1.0	0	21.4	189	31.3	169	92	30	0	0	0	0
TAMPA	79	57	86	50	68	-5	0	-.5	0	10.8	169	18.9	175	95	42	0	0	0	0
WEST PALM BEACH	79	62	84	53	71	-4	.2	-.7	.2	9.0	129	26.3	233	80	46	0	0	2	0
GA ATLANTA	75	50	81	43	62	-3	T	-.9	T	11.8	103	19.5	104	70	28	0	0	1	0
AUGUSTA	78	47	83	41	62	-4	T	-.7	T	12.9	142	22.6	150	84	30	0	0	0	0
MACON	78	50	85	41	64	-5	T	-.8	T	10.8	108	23.8	140	77	31	0	0	0	0
SAVANNAH	77	53	83	45	65	-4	0	-.8	0	14.6	174	25.3	192	82	31	0	0	0	0
HI HILO	77	66	78	64	71	-2	1.7	-1.2	.7	12.5	40	14.1	29	92	64	0	0	7	1
HONOLULU	80	68	83	66	74	-2	T	-.3	T	.9	17	1.2	11	81	50	0	0	1	0
KAHULUI	80	68	83	66	74	-1	.1	-.1	.1	1.2	27	1.8	18	84	54	0	0	2	0
LIHUE	78	70	80	68	74	0	.2	.5	.1	1.6	18	2.4	13	79	55	0	0	3	0
ID BOISE	58	40	63	33	49	-3	1.5	1.3	1.0	5.1	189	8.0	160	89	42	0	0	4	1
LEWISTON	62	40	68	36	51	-3	.3	0	.2	2.2	96	4.7	115	88	40	0	0	2	0
POCATELLO	54	35	57	28	44	-4	.3	0	.2	3.8	146	5.4	132	85	44	0	2	3	0
IL CHICAGO	66	39	82	28	52	-1	1.5	.7	.7	11.3	155	14.1	148	84	35	0	2	4	1
MOLINE	70	46	82	33	58	3	.2	-.8	.1	7.4	95	9.4	97	76	30	0	0	2	0
PEORIA	68	47	81	37	58	2	1.0	0	.8	9.7	126	11.2	112	79	40	0	0	3	1
QUINCY	67	47	80	39	57	0	1.8	.9	.8	9.7	123	10.6	105	84	51	0	0	3	2
ROCKFORD	69	42	82	30	55	3	.2	-.8	-.1	6.5	81	8.7	86	86	34	0	1	2	0
SPRINGFIELD	69	47	80	35	58	0	1.5	.6	.7	7.9	100	9.3	89	80	48	0	0	4	1
IN EVANSVILLE	71	50	79	33	61	1	5.1	4.2	2.4	14.7	146	17.3	111	79	49	0	0	3	2
FORT WAYNE	68	45	81	33	57	3	1.3	.5	.6	6.5	87	8.2	74	74	44	0	0	4	1
INDIANAPOLIS	69	46	79	34	58	1	1.4	.5	1.3	7.5	87	9.5	75	85	51	0	0	3	1
SOUTH BEND	64	43	75	35	53	1	1.7	.8	.6	7.9	95	9.6	83	81	44	0	0	3	3
IA DES MOINES	69	47	82	36	58	2	T	-.8	T	7.4	117	10.7	137	66	33	0	0	1	0
SIOUX CITY	66	41	75	31	53	-2	.1	-.6	.1	7.3	159	8.4	153	73	34	0	0	1	0
WATERLOO	69	43	82	31	56	4	T	-.9	T	6.2	94	8.4	109	83	32	0	2	1	0
KS CONCORDIA	66	45	76	32	55	-2	.4	-.2	.4	5.4	120	8.2	155	81	48	0	0	2	0
DODGE CITY	67	47	87	34	57	-1	.1	-.4	.1	5.6	170	7.5	183	83	49	0	0	3	1
GOODLAND	65	41	81	34	53	0	.9	.5	.1	4.1	171	5.2	173	89	44	0	0	2	1
TOPEKA	70	50	83	40	60	1	1.5	.7	1.5	10.8	177	12.1	166	79	47	0	0	3	0
WICHITA	66	48	77	36	57	-3	.5	-.1	.3	8.9	193	11.7	202	89	58	0	0	3	2
KY BOWLING GREEN	69	48	78	37	59	-2	2.5	1.6	1.5	11.0	99	15.4	79	91	52	0	0	4	1
LEXINGTON	69	49	79	35	59	0	1.8	.9	1.1	6.6	66	9.4	59	81	46	0	0	4	2
LOUISVILLE	71	51	81	37	61	1	3.4	2.5	2.3	9.3	89	12.3	76	79	40	0	0	4	2
LA ALEXANDRIA	78	57	81	45	68	-3	T	-1.3	T	9.2	77	20.1	100	76	46	0	0	0	0
BATON ROUGE	79	55	83	45	67	-4	0	-1.3	0	19.0	158	29.2	149	91	42	0	0	0	0
LAKE CHARLES	79	58	82	47	69	-3	0	-1.1	0	4.7	55	14.6	91	94	52	0	0	0	0
NEW ORLEANS	79	57	85	48	68	-3	0	-1.1	0	19.1	172	34.8	181	92	46	0	0	0	0

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

National Weather Summary (continued from front cover)

in southern California and lighter showers through the rest of the State and over the Plateau to the central Rockies.

SATURDAY...A strong stationary front was located from New England through the Ohio Valley to Oklahoma and into Colorado. Showers and thunderstorms hit on both sides of the front.

Severe weather hit southwestern and central Missouri and from western Tennessee to the northern Ohio Valley. Lighter showers and thunderstorms reached through Tennessee, the central Plains and the Rockies. Some moderate showers fell in western Nebraska. Rainshowers dotted much of the southern Plateau and California, while snow was the rule in the higher elevations of the Sierras, Nevada, and Utah.

Weather Data for the Week Ending April 30, 1983

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Feb. 27	PCT. NORMAL SINCE Feb. 27	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE			
																90 AND ABOVE	82 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
ME SHREVEPORT	78	56	80	40	67	-2	T	-1.1	T	5.1	51	16.1	99	96	55	0	0	1	0
ME CARIBOU	57	40	65	35	49	6	1.3	.6	.5	7.7	133	12.8	136	90	60	0	0	5	1
ME PORTLAND	59	42	76	37	50	4	3.5	2.7	3.0	16.4	184	24.9	173	92	58	0	0	4	1
MD BALTIMORE	72	50	87	41	61	3	1.0	.2	1.0	13.3	168	20.4	161	75	39	0	0	2	1
MD SALISBURY	73	51	85	42	62	4	1.1	.4	.9	13.0	157	18.1	128	88	44	0	0	2	1
MA BOSTON	66	49	83	43	58	5	2.0	1.2	2.0	16.5	185	26.5	177	87	49	0	0	3	1
MA CHATHAM	54	44	60	42	49	1	1.8	.9	1.5	17.6	—	26.9	—	94	79	0	0	3	1
MI ALPENA	62	33	78	27	47	2	.2	-.4	.2	5.4	110	8.7	116	90	41	0	4	2	0
MI DETROIT	64	39	79	32	52	0	1.3	.6	.8	6.2	94	7.8	83	75	37	0	2	3	1
MI FLINT	62	38	76	33	50	0	1.3	.6	.9	6.2	102	8.2	92	83	44	0	0	2	1
MI GRAND RAPIDS	65	36	76	31	50	-1	1.6	.8	.6	8.5	120	11.1	116	64	30	0	1	3	2
MI HOUGHTON LAKE	62	38	73	28	50	3	.1	-.5	.1	4.6	96	6.7	94	84	35	0	2	2	0
MI LANSING	62	36	74	31	49	-2	1.4	.8	.9	7.4	123	9.2	102	90	46	0	1	3	2
MI MARQUETTE	57	29	70	25	43	0	.1	-.9	.1	8.2	114	14.1	142	90	37	0	6	1	0
MI MUSKEGON	60	37	71	31	49	-1	.2	-.5	.2	6.1	90	8.4	85	79	36	0	2	1	0
MI SAULT STE. MARIE	57	28	75	24	42	-1	-.1	-.4	-.1	5.3	113	8.6	112	92	40	0	7	1	0
MN ALEXANDRIA	63	36	71	29	49	2	.2	-.4	.2	2.4	62	3.5	74	82	29	0	1	1	0
MN DULUTH	57	33	68	26	45	2	.2	-.4	.2	4.4	100	6.2	105	84	38	0	3	2	0
MN INT'L FALLS	56	32	73	25	44	0	.1	-.4	.1	1.8	53	2.9	66	83	40	0	5	1	0
MN MINNEAPOLIS	65	42	72	30	53	2	.3	-.2	.3	7.1	173	8.9	178	82	35	0	1	2	0
MN ROCHESTER	63	39	72	30	51	1	.2	-.5	.2	4.5	90	6.5	116	80	34	0	1	1	0
MS GREENWOOD	76	55	81	42	65	-2	0	1.2	0	13.4	100	24.7	115	90	53	0	0	0	0
MS JACKSON	79	54	83	41	66	-2	0	1.3	0	21.7	160	35.8	170	94	42	0	0	0	0
MS MERIDIAN	78	49	82	39	63	-4	T	1.1	T	18.7	138	31.0	146	96	42	0	0	1	0
MO CAPE GIRARDEAU	72	51	80	35	62	-1	6.6	5.5	5.3	14.9	149	16.3	107	91	56	0	0	2	2
MO COLUMBIA	69	49	82	39	59	0	4.4	3.4	1.9	12.0	154	12.8	127	91	56	0	0	5	3
MO KANSAS CITY	68	48	79	38	58	-1	1.0	.2	1.0	8.4	127	9.6	116	86	48	0	0	3	1
MO SAINT LOUIS	71	52	83	38	61	1	2.8	2.0	.9	10.7	137	12.4	117	88	50	0	0	4	4
MO SPRINGFIELD	73	52	79	36	62	3	4.8	3.8	2.5	12.8	156	14.1	127	83	53	0	0	3	3
MT BILLINGS	58	32	79	25	45	-4	.3	-.2	.2	1.3	37	1.7	39	84	30	0	5	2	0
MT GLASGOW	55	31	75	19	43	-5	-.1	-.2	.1	.7	54	.9	43	77	30	0	5	2	0
MT GREAT FALLS	54	30	70	23	42	-5	-.1	-.4	.1	1.9	68	2.3	56	82	31	0	5	2	0
MT HAVRE	54	31	79	21	43	-5	.3	0	.2	1.1	50	2.1	72	89	32	0	5	3	0
MT HELENA	57	32	64	25	45	-2	.2	-.1	.1	.9	47	1.3	52	80	33	0	3	4	0
MT KALISPELL	53	31	63	26	42	-5	1.6	1.4	1.1	3.6	180	5.5	131	97	50	0	4	4	1
MT MILES CITY	59	36	75	28	47	-3	T	-.4	T	.9	36	1.2	40	74	25	0	3	1	0
MT MISSOULA	57	33	65	28	45	-2	.3	.1	.3	1.9	95	3.4	94	87	36	0	3	3	0
NE GRAND ISLAND	66	39	79	29	53	-3	.1	.6	.1	4.7	102	5.7	112	81	41	0	1	2	0
NE LINCOLN	68	41	78	31	55	-1	T	.7	T	4.8	96	6.3	111	85	38	0	1	1	0
NE NORFOLK	65	41	75	30	53	-1	T	.6	T	5.8	141	7.2	141	82	34	0	1	1	0
NE NORTH PLATTE	60	39	73	27	49	-3	.8	.3	.5	3.7	116	4.3	113	85	46	0	1	4	0
NE OMAHA	67	45	76	38	56	1	T	.8	T	7.7	148	9.9	157	73	38	0	0	0	0
NE SCOTTSBLUFF	60	37	74	36	49	-2	1.2	.8	.5	4.2	156	4.4	152	86	44	0	0	5	1
NE VALENTINE	58	35	78	24	47	-4	1.0	.4	.4	2.8	88	2.9	78	79	41	0	1	4	0
NV ELY	53	31	58	22	42	-2	.8	.6	.7	3.5	159	5.9	190	90	40	0	5	3	1
NV LAS VEGAS	73	54	78	49	64	-3	T	0	T	1.4	175	2.2	147	47	20	0	0	1	0
NV RENO	53	32	57	27	43	-7	1.0	.8	.5	3.0	250	5.7	190	95	43	0	4	5	1
NV WINNEMUCCA	54	33	62	27	44	-5	.5	.3	.2	2.4	133	4.3	130	88	44	0	2	4	0
NH CONCORD	65	43	82	32	54	6	2.2	1.5	1.6	13.0	191	19.1	172	89	46	0	1	4	1
NJ ATLANTIC CITY	73	49	86	39	61	6	1.0	.3	.9	13.3	156	19.1	132	87	46	0	0	2	1
NM ALBUQUERQUE	79	46	82	40	62	4	0	.1	0	.6	55	2.4	141	42	9	0	0	0	0
NM CLOVIS	78	48	82	43	63	3	0	.3	0	1.2	67	2.6	108	52	14	0	0	0	0
NM ROSWELL	84	51	86	46	67	2	0	.1	0	.7	78	1.3	93	42	14	0	0	0	0
NY ALBANY	64	44	82	35	54	3	2.1	1.4	.7	13.1	198	18.8	188	92	53	0	0	5	3
NY BINGHAMTON	60	43	80	31	51	2	3.0	2.3	.8	11.1	166	15.1	144	86	52	0	1	4	2
NY BUFFALO	60	40	72	33	50	1	.5	-.2	.4	5.7	83	8.4	72	88	45	0	0	4	0
NY NEW YORK	68	51	84	43	59	4	2.4	1.6	2.0	19.6	223	26.7	196	92	53	0	0	3	1
NY ROCHESTER	59	41	72	34	50	0	1.5	.9	.5	6.0	97	8.6	87	90	50	0	0	5	1
NY SYRACUSE	62	41	74	32	52	1	2.3	1.5	.7	8.7	118	11.7	99	95	55	0	1	5	3
NC ASHEVILLE	72	43	80	36	57	-2	T	.8	T	11.8	119	20.7	134	85	34	0	0	1	0
NC CHARLOTTE	75	47	82	39	61	-3	.1	-.6	.1	8.8	101	16.5	109	80	29	0	0	1	0
NC GREENSBORO	74	47	81	40	60	-1	.1	-.7	.1	11.3	140	16.5	120	76	31	0	0	1	0
NC HATTERAS	71	54	77	44	62	0	.5	-.3	.4	14.4	180	31.0	201	87	46	0	0	2	0
NC NEW BERN	77	50	85	42	63	-2	.4	-.3	.4	12.9	172	24.9	174	92	35	0	0	2	0
NC RALEIGH	76	49	86	38	63	0	.1	-.6	.1	11.7	158	19.5	148	76	31	0	0	1	0
NC WILMINGTON	75	50	82	42	62	-4	.2	-.6	.2	11.7	144	23.9	173	91	39	0	0	1	0
ND BISMARCK	58	32	73	23	45	-3	T	-.4	T	2.3	88	2.8	82	78	28	0	4	1	0
ND FARGO	61	34	75	24	48	-1	T	-.5	T	2.6	84	3.3	92	79	30	0	3	1	0
ND GRAND FORKS	60	35	76	29	48	1	.3	0	.3	2.4	100	3.0	94	81	33	0	2	3	0
ND WILLISTON	58	29	75	18	44	-4	T	-.3	T	1.1	50	1.5	54	77	29	0	5	0	1
OH AKRON-CANTON	65	44	78	35	55	2	1.4	.6	1.1	7.9	105	10.8	94	81	46	0	0	3	1
OH CINCINNATI	70	47	80	32	59	1	1.6	.8	1.1	7.0	80	9.7	69	81	43	0	1	4	1
OH CLEVELAND	66	44	80	34	55	3	1.3	.5	.9	6.8	91	9.2	81	78	43	0	0	3	1
OH COLUMBUS	68	45	80	32	56	1	2.1	1.2	2.0	7.3	92	9.2	77	83	43	0	1	3	1

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

State Summaries (continued from p. 16)

in west late 27th and spread eastward across the State late 27th ending in east early 28th. Rain amounts were on the light side with most places receiving less than 0.00 in. Showers developed again in the west late 28th, spread eastward and ended early 29th. More important rains developed across State 1st afternoon and night with southern portions of the State receiving 1.00 in. of rain.

Northern parts received less than 0.50 in. Warmest temperature for the week was on 26th with an 81° reading at Juneau and Lafarge. The coldest was 29th morning at Duluth-Superior with a temperature of 28°.

There were 5.0 days suitable for fieldwork. Soil moisture 4% short, 72% adequate and 24% surplus.

(continued on P. 9)

Weather Data for the Week Ending April 30, 1983

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE FEB. 27	PCT. NORMAL SINCE FEB. 27	TOTAL, IN., SINCE JAN. 1	PCT. NORMAL SINCE JAN. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE		PRECIPITATION	
																90 AND ABOVE	52 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
DAYTON	68	45	78	31	56	0	1.7	-.9	1.5	7.5	100	9.6	83	74	42	0	1	2	1
TOLEDO	65	40	80	30	53	1	1.2	-.5	.6	6.1	95	7.5	80	80	43	0	2	3	1
YOUNGSTOWN	66	44	81	34	55	4	2.0	1.2	1.3	8.9	116	11.2	93	77	45	0	0	4	2
OK OKLAHOMA CITY	77	53	82	41	65	1	.1	-.8	.1	4.8	86	9.3	126	87	45	0	0	1	0
TULSA	79	57	84	46	68	3	.4	-.7	.2	6.0	76	10.9	108	87	49	0	0	4	0
OR ASTORIA	61	44	71	35	53	3	1.2	-.3	.5	13.1	98	35.3	122	94	56	0	0	4	0
BURNS	52	32	58	26	42	-4	-.6	-.5	.2	4.1	256	7.9	188	83	51	0	5	5	0
MEDFORD	59	39	66	34	49	-4	-.6	-.4	.3	4.3	139	10.9	130	97	52	0	0	5	0
FENDLETON	62	41	68	36	51	-2	-.1	-.2	.1	3.7	161	5.9	128	86	37	0	0	3	0
PORTLAND	66	47	73	40	56	4	.1	-.4	.1	8.8	129	22.8	143	87	43	0	0	3	0
SALEM	65	41	71	34	53	2	.4	-.1	.2	11.4	146	27.8	150	96	53	0	0	2	0
PA ALLENTOWN	68	48	86	39	58	4	1.3	-.4	.8	13.4	152	19.5	144	78	44	0	0	3	1
ERIE	62	40	82	30	51	2	.8	0	.4	6.0	85	8.8	81	81	49	0	2	3	0
HARRISBURG	68	48	84	39	58	2	1.9	1.1	1.8	12.9	172	18.5	158	84	42	0	0	3	1
PHILADELPHIA	70	48	87	39	59	2	1.3	.5	1.1	14.6	176	20.9	163	83	42	0	0	2	1
PITTSBURGH	65	45	80	31	55	1	.9	-.2	.5	7.9	100	10.8	89	77	42	0	1	3	1
SCRANTON	64	44	83	33	54	2	1.7	1.0	.8	12.3	192	15.0	155	85	51	0	0	4	2
RI PROVIDENCE	67	47	82	40	57	5	2.8	1.9	2.7	20.4	213	29.7	194	83	48	0	0	2	1
SC CHARLESTON	76	53	83	48	64	-3	T	-.6	T	15.6	193	26.2	196	84	36	0	0	0	0
COLUMBIA	77	48	85	39	63	-4	-.1	-.7	.1	14.0	146	22.0	144	85	29	0	0	1	0
FLORENCE	77	51	85	47	64	-3	-.2	-.4	.2	13.6	170	22.3	173	83	36	0	0	1	0
SD GREENVILLE	73	46	80	38	60	-4	-.2	-.7	.2	10.7	96	18.5	101	84	33	0	0	1	0
ABERDEEN	61	33	74	21	47	-3	T	-.5	T	3.2	97	3.6	90	90	32	0	5	1	0
HURON	56	35	73	27	48	-3	-.2	-.4	.1	3.6	103	3.7	93	95	38	0	3	2	0
RAPID CITY	56	36	72	29	46	-3	-.5	0	.3	1.9	56	2.2	58	79	45	0	1	2	0
SIoux FALLS	62	36	74	28	49	-2	-.2	-.4	.1	6.1	139	6.9	125	93	41	0	3	4	0
TN CHATTANOOGA	76	45	84	35	61	-3	T	-1.0	T	10.0	83	17.1	82	87	26	0	0	2	0
KNOXVILLE	73	45	81	37	59	-3	-.4	-.5	.4	8.1	76	12.6	67	87	38	0	0	2	0
MEMPHIS	75	57	80	40	66	0	.6	-.7	.6	12.4	98	17.2	83	83	49	0	0	1	1
TX NASHVILLE	74	50	81	40	62	-1	.3	-.7	.3	10.3	92	15.8	84	88	43	0	0	4	0
ABILENE	84	60	91	42	72	4	0	-.7	0	2.5	63	4.8	89	73	32	1	0	0	0
AMARILLO	80	46	87	36	63	3	T	-.3	T	1.8	90	4.8	178	85	20	0	0	0	0
AUSTIN	80	61	85	49	71	-1	T	-.9	T	6.1	109	11.0	111	83	50	0	0	1	0
BEAUMONT	76	62	81	49	69	-3	T	-1.0	T	5.3	65	14.8	98	97	63	0	1	0	0
BROWNSVILLE	87	67	90	53	77	0	T	-.4	T	.6	24	4.3	86	89	47	3	0	0	0
CORPUS CHRISTI	83	64	87	49	74	-2	T	-.6	T	3.0	83	7.1	106	91	52	0	0	0	0
DEL RIO	88	64	94	53	76	2	0	-.5	0	1.1	37	2.8	67	69	32	2	0	0	0
EL PASO	83	56	88	48	69	3	0	-.1	0	1.8	360	2.7	225	41	13	0	0	0	0
FORT WORTH	80	61	88	46	71	1	.2	-.8	.2	5.0	71	8.8	85	77	47	0	0	1	0
GALVESTON	74	65	77	58	70	-2	T	-.7	T	3.1	53	10.6	100	93	72	0	0	0	0
HOUSTON	79	61	83	45	70	-1	.1	-1.0	.1	4.4	54	10.4	73	91	54	0	0	2	0
LUBBOCK	84	51	87	40	67	4	0	-.3	0	1.4	61	4.4	147	61	15	0	0	0	0
MIDLAND	89	56	94	41	72	5	0	-.3	0	.3	19	1.8	72	71	14	4	0	0	0
SAN ANGELO	86	61	92	43	73	4	0	-.5	0	2.0	65	4.5	102	88	36	2	0	0	0
SAN ANTONIO	82	61	87	45	71	0	.1	-.7	.1	4.0	85	7.0	92	84	44	0	0	1	0
VICTORIA	82	62	85	48	72	-1	T	-.8	T	4.5	88	10.0	119	89	51	0	0	2	0
WACO	81	60	84	39	70	0	T	-1.1	T	3.6	51	7.8	74	87	50	0	0	0	0
WICHITA FALLS	82	57	90	43	70	3	T	-.8	T	3.4	62	6.2	87	86	40	1	0	0	0
UT BLANDING	64	37	72	34	50	0	.1	-.1	-.1	2.5	147	5.6	165	71	28	0	0	3	1
CEDAR CITY	60	42	65	30	51	0	.7	-.5	.3	4.0	167	5.9	174	57	29	0	1	2	0
SALT LAKE CITY	58	40	71	31	49	-4	.7	-.3	.3	5.8	126	8.3	132	87	45	0	1	4	0
VT BURLINGTON	57	42	76	31	50	2	2.5	1.8	.8	9.2	164	14.0	167	92	58	0	1	6	3
VA NORFOLK	77	52	87	46	65	3	1.0	-.3	1.0	11.2	149	19.5	147	73	30	0	0	1	1
RICHMOND	78	52	88	47	65	4	.5	-.2	.5	11.4	156	16.9	139	83	32	0	0	1	0
ROANOKE	73	50	83	39	62	2	.3	-.4	.3	14.4	187	19.8	158	67	34	0	0	1	0
WA COLVILLE	59	39	67	33	49	0	1.1	-.8	.6	5.5	190	10.5	169	89	65	0	0	3	1
QUILLAYUTE	61	40	70	35	51	3	.9	-.5	.7	17.0	82	51.0	114	94	53	0	0	2	1
SEATTLE-TACOMA	63	45	71	41	54	3	.1	-.4	.1	5.0	74	16.5	104	92	41	0	0	2	0
SPOKANE	58	37	68	30	48	-2	-.2	-.1	.1	2.9	97	7.0	103	87	38	0	1	2	0
YAKIMA	66	40	74	32	53	1	.2	-.2	.2	2.5	278	6.1	203	73	29	0	1	1	0
WV BECKLEY	68	45	78	30	57	1	.4	-.4	.4	5.0	56	7.0	48	78	33	0	1	2	0
CHARLESTON	72	46	84	35	59	0	1.5	-.7	.8	7.0	82	10.9	78	73	28	0	0	3	2
HUNTINGTON	71	47	83	37	59	-1	1.0	-.2	.6	5.6	65	8.9	65	86	39	0	0	3	1
WI PARKERSBURG	69	47	80	34	58	1	1.5	-.7	1.1	9.0	107	12.8	91	75	37	0	0	4	1
GREEN BAY	63	39	74	30	51	2	T	-.7	T	2.9	57	5.1	77	78	35	0	2	1	0
LA CROSSE	68	44	78	32	56	3	T	-.8	T	3.7	63	5.3	76	76	27	0	1	1	0
MADISON	67	39	79	28	53	2	.1	-.7	.1	5.0	83	7.7	104	83	35	0	2	1	0
MILWAUKEE	63	40	80	32	51	3	.2	-.5	.2	8.9	135	11.9	138	79	40	0	1	1	0
WAUSAU	64	40	74	30	52	4	.1	-.7	.1	2.7	48	4.8	66	82	29	0	1	1	0
WY CASPER	55	34	75	30	45	-1	1.1	-.7	.6	4.5	161	5.4	159	88	43	0	3	3	1
CHEYENNE	58	36	66	32	47	1	1.1	-.8	.6	6.8	283	6.8	227	94	42	0	1	4	1
LANDER	55	34	70	29	45	-2	.5	-.1	.5	5.4	142	6.0	133	77	37	0	1	2	1
SHERIDAN	59	33	80	26	46	-1	.1	-.5	.1	1.1	30	1.4	31	77	37	0	5	2	0
PR SAN JUAN	90	77	95	76	83	4	.1	-.9	.1	6.3	93	7.2	59	87	57	3	0	1	0

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

+100 = NORMAL & ACTUAL NEAR THE SAME

State Summaries

WYOMING: Moisture slightly above normal in south-east and northwest. Elsewhere amounts near normal. Temperatures near normal.

Topsoil moisture adequate 93% State. Four days suitable for fieldwork. Spring wheat 35% planted, 10% emerged. Oats, 25% planted, 5% emerged. Barley, 55% planted, 35% emerged. Sugarbeets, 45% planted, 20% emerged. Corn, 5% planted. Win-

ter wheat mostly good condition. Alfalfa prospects mostly good. Livestock mostly good condition. Spring calving 80% complete. Farm flock: Ewes lambed 80%; shorn 80%. Range sheep: Ewes lambed 55%; shorn 55%. Calf, lamb losses light to normal most areas. Ranges, pastures mostly good condition.

(continued from p. 8)

National Agricultural Summary

April 25 to May 1

HIGHLIGHTS: Heavy rain delayed fieldwork in California, and from Missouri northeastward into New England. However, growers in most other regions had clear, dry weather which provided 4 to 5 days suitable for fieldwork. Soil moisture supplies were adequate to surplus except in southern Texas where additional moisture was needed to sustain crop development. Winter wheat was in fair to mostly good condition. Stands were 8% headed compared with the 17% average. Spring wheat seeding was 28% complete in the five major States, 10 points behind average. Corn planting in the 17 major States reached 9% finished, half the normal pace. Sorghum planting moved northward into Oklahoma and Missouri. Cotton producers in the 14 major States planted 24% of the acreage, compared with 29% a year earlier and the 36% average. Rice planting advanced to 33% finished in the five major States. Seventeen percent of the rice crop had emerged. Soybean planting began across the South. Pastures and ranges were in fair to mostly good condition. Some livestock were moved to summer rangelands.

SMALL GRAINS: Winter wheat was in fair to mostly good condition in the major producing areas as warmer temperatures increased growth and development. Heading was confined to the extreme southern regions, reaching 8% in the 15 major producing States compared with the 17% average. Heading was slower than normal in all major States. The crop was jointing through the central third of the Nation.

Kansas winter wheat was 60% jointed, 5 points behind the average. Stands were in good to excellent condition with slight insect and disease problems. In Oklahoma, 10% of the acreage was headed. Texas winter wheat was 32% headed with some areas reporting short soil moisture. California stands were 70% headed compared with the 74% average.

Spring wheat seeding gained momentum with 28% of the acreage seeded in the five major producing States, 10 points behind average. Seeding progress ranged from 16% in North Dakota to 70% in Idaho. Planting lagged in all States except Idaho and Montana.

CORN: Corn planting in the 17 major producing States reached 9% finished, half the average progress. Only Indiana and Ohio equaled their normal progress. Heavy rains slowed planting in the extreme southern portions of the Corn Belt southward into Tennessee. Planting was underway in all States except South Dakota. Emerged plants were in fair condition in southern areas due to excessive moisture.

SORGHUM: Sorghum planting advanced northward into Missouri. Texas growers had planted 67%, 2 points ahead of average. In Oklahoma, producers had planted 5% of the acreage, the same as a year ago and average. Missouri farmers seeded 3% of the crop, 4 points behind normal.

COTTON: Cotton planting gained momentum as producers in the 14 major producing States seeded 24% of the acreage. This rate compares with 29% last year and the 36% average. Planting was behind in all States except Arizona. Oklahoma was the only State where planting was not underway.

OTHER CROPS: Soybean planting became more widespread. Progress ranged from just getting started in Virginia to 2% finished in Ohio and Georgia.

Rice planting in the five major States reached 33% completion, 20 points slower than a year earlier. Progress was behind normal in all areas. California producers lagged the average by 27 points, and Mississippi growers were 41 points

behind average. Rice had emerged on 17% of the acreage, compared with 26% last year.

Peanut planting became more widespread. Producers were 4% finished in Virginia, 6% in Mississippi, 14% in South Carolina, 15% in Alabama, 22% in Georgia, and 12% in Texas. All States were behind normal except Texas.

Tobacco transplanting became more widespread. However, reduced growth in plant beds due to cool weather will delay setting in many areas. The previous freezing temperatures injured many transplants in South Carolina. Growers were busy replanting damaged fields.

FRUITS AND NUTS: Peaches began blooming as far north as New York. Apples and strawberries bloomed in New Jersey in the Northeast and Washington in the Northwest. Apple and peach crops in the Southeast were rated fair to very poor due to previous freeze damage. Texas producers thinned peach orchards due to a heavy set.

Citrus groves in Florida were in excellent condition with sufficient moisture. Harvesting of the remaining Valencia oranges was very active in all areas. Grapefruit harvesting centered mostly in the lower east coast.

The Texas harvest of Valencia oranges and grapefruit continued. Pecan trees were in excellent condition. Some south Texas orchards were setting fruit.

Citrus picking continued slow in Arizona. Valencia oranges, lemons, and grapefruit were picked to fill orders. Groves remained in good condition.

California's navel orange harvest neared completion. Valencia orange picking has begun, but most fruit was small in size. Pecans leafed out and in catkin stage. Almonds progressed normally, but walnuts showed some blight problems. A hail storm knocked leaves off trees in Contra Costa County and in northern Sacramento Valley orchards. Rain caused heavy losses of early cherries. The bing variety showed a very light set.

VEGETABLES: Vegetable planting advanced into northern growing areas. Replanting of tender vegetables destroyed by the previous freezing temperatures was completed in many areas. Growers cut asparagus and spinach in New Jersey.

Mild days and cool nights continued in Florida's vegetable areas. Total shipments increased 16% from the previous week. The only crops showing decreased volumes were cauliflower, escarole, strawberries, and tomatoes. Strawberry picking remained active. Watermelon harvesting was very light as cool nights delayed the crops maturity.

In Texas, the harvest of carrots, cabbage, and squash was active. All vegetables made good growth with warmer weather. The spring onion harvest neared completion in the Rio Grande Valley, while harvesting gained momentum in the San Antonio-Winter Garden area.

Arizona's lettuce harvest was finishing in central areas. Mixed vegetable harvesting continued with steady volumes.

Rainfall hampered field activities in California. Growers harvested a wide variety of vegetables. However, wet fields slowed field preparation and planting of most crops. The wet weather also caused some quality problems in strawberries.

PASTURES AND LIVESTOCK: Pastures were rated fair to good across most of the Nation. Warmer weather aided the growth of grasses in all areas except southern Texas where additional moisture is needed to sustain growth. Cattle were in fair to good condition, but heavier than normal death rates of newborn calves were reported in several regions. Herds began returning to summer rangelands in many areas.

CROP PROGRESS

FOR WEEK ENDING MAY 1

WINTER WHEAT % HEADED				RICE % EMERGED				CORN % PLANTED				COTTON % PLANTED				
	1983	1982	AVG.		1983	1982	AVG.		1983	1982	AVG.		1983	1982	AVG.	
CALIF	70	72	74	ARK	2	7	21	COLO	5	26	16	ALA	18	27	58	
COLO	0	0	0	CALIF	0	0	3	GA	83	93	91	ARIZ	85	80	81	
IDAHO	0	0	0	LA	45	59	66	ILL	12	26	18	ARK	8	9	22	
ILL	0	0	6	MISS	4	22	26	IND	10	20	10	CALIF	75	90	94	
IND	0	0	5	TEX	47	73	58	IOWA	10	11	23	GA	20	39	61	
KANS	0	0	10	5 STATES	17	26	32	KANS	10	20	25	LA	14	25	33	
MO	0	2	12	THESE 5 STATES PRODUCED 98% OF THE 1982 RICE CROP.				KY	6	26	27	MISS	20	22	34	
MONT	0	0	0					MICH	2	13	6	MO	11	4	18	
NEBR	0	0	0					MINN	1	13	11	N MEX	35	60	58	
OHIO	0	0	0					MO	12	38	28	N C	15	23	45	
OKLA	10	30	45					NEBR	2	5	10	OKLA	0	1	1	
OREG	0	0	0					N C	37	82	83	S C	29	35	66	
S DAK	0	0	0					OHIO	15	35	15	TENN	6	10	24	
TEX	32	45	35					PA	4	2	8	TEX	12	17	21	
WASH	0	0	0					S DAK	0	0	2	14 STATES	24	29	36	
15 STATES	8	13	17					VA	24	51	48					
THESE 15 STATES PRODUCED 80% OF THE 1982 WINTER WHEAT CROP.				RICE % PLANTED												
					1983	1982	AVG.									
				ARK	14	17	37	17 STATES	9	19	18	THESE 14 STATES PRODUCED 99% OF THE 1982 COTTON CROP.				
				CALIF	3	2	30	THESE 17 STATES PRODUCED 93% OF THE 1982 CORN CROP.								
				LA	62	70	77									
				MISS	18	42	59	SORGHUM % PLANTED								
				TEX	89	90	91		1983	1982	AVG.					
				5 STATES	33	37	53	COLO	0	0	0					
				THESE 5 STATES PRODUCED 98% OF THE 1982 RICE CROP.				KANS	0	0	1					
								MO	3	7	7					
								NEBR	0	0	0					
								OKLA	5	5	5					
								S DAK	0	0	0					
								TEX	67	66	65					
								7 STATES	29	28	28					
								THESE 7 STATES PRODUCED 90% OF THE 1982 SORGHUM CROP.								

State Summaries of Weather and Agriculture

ALABAMA: Rainfall extreme north less than 0.25 in. Temperatures below normal.

Fieldwork 4.2 days. Soil moisture adequate to surplus. Wheat headed 40%, 1982 71%, average 74%. Wheat turning color 4%, 1982 7%. Corn planted 60%, 1982 and average 71%. Cotton planted 18%, 1982 27%, average 58%. Peanuts planted 15%, 1982 33%, average 29%. Sorghum planted 6%, 1982 14%, average 15%. Condition: Wheat mostly good, pastures and livestock fair to good. Stored feed and pasture feed short to adequate. Plowing 50%, 1982 71%.

ARIZONA: Spring like weather dominated State, gusty winds 25 to 35 mph present. Upper air disturbance brought precipitation northern half, rainfall amounts light side, mostly less 0.25 in. Temperatures ranged 6° below normal, 3° above.

Range, pasture conditions improving during April, above normal rainfall kept ranges good to excellent condition. Northern ranges had abundant soil moisture, spring feed unable to grow due cold temperatures. Winds caused some drying ranges northeast. Central, southwestern Desert ranges, pastures remained good condition, spring growth available although warm temperatures drying out feed. Southeastern ranges had spring feed growth beginning, cool weather slowed growth. Cattle, sheep mostly good to excellent condition, ranges supplying average to above average amounts feed. Light insect damage central, western ranges. Arizona cotton growers made good progress during peak time planting season, approximately 85% acreage planted, ahead last years 80%, average 81%. West some below average crop development, plants showing signs typical early season insect injury. Remainder State continued mostly average crop development.

Plants emerging those areas, somewhat delayed southeastern parts by cool temperatures. Weed, insect controls, irrigation applications applied as needed. Wheat, barley growers preparing harvest small grains. Harvest expected begin next week early planted fields Yuma County. Remainder early planted small grains turning color while later plantings reached heading stage. Alfalfa haying activities increasing, most growers cutting, baling. Corn, sorghum planting increasing southeastern counties, winding down Yuma County. Early planted stands made satisfactory progress. Spring lettuce harvest rapidly declined central area, should begin Willcox area around May 20th. Growers Maricopa, Pinal Counties harvesting manufacturing potatoes, digging table potatoes underway first May. Dry onion harvest begin then central area. Mixed vegetable volume continued, most should be complete mid-May with exception green onions which will continue into summer. Cantaloups, watermelons, honeydew melons made satisfactory progress, weather had some severe effect fields Mohave County. Runners developing Yuma County, limited fruit development underway. Citrus activities slow. Movement Valencia oranges, lemons, grapefruit occurred as orders taken, filled. Citrus groves remained good condition.

ARKANSAS: Warmer weather and reduced shower activity. Temperatures ranged from +6 to -2° below normal. No precipitation at many stations, others 1.00 in. or less to 3.79 in.

Four days suitable for fieldwork. Soil moisture adequate to surplus. Slow crop growth. Cotton planted 8%, 9% 1982, 22% average. Rice planted 14%, 17% 1982, 37% average; emerged below 5%, 7% 1982, 21% average. Rice fair to good condition.

Wheat good to fair, 1/3 headed. Oats good, 1/2 of crop heading. Corn planted 61%, 64% 1982, 54% average. Many corn fields replanted. Sorghum planted 15%, 34% 1982 and average. Condition good to poor. Pastures improving. Livestock fair to good condition.

CALIFORNIA: Following the trend of past weeks, temperatures continue below normal and precipitation above normal for most of the districts. The North Coast and Sacramento Valley districts had the highest average precipitation amounts with 2.40 and 2.90 in. respectively. Individually Ukiah had a weekly total of 5.80 in. and Blue Canyon 5.7 in. The South Coast District temperatures were normal while the remaining districts were from 3 to 9° below normal. Blythe recorded the weekly high temperature of 90° and Alturas recorded the low of 21°.

Fieldwork of most crops delayed by intermittent showers. Rice field operations continue behind normal, 3% planted, 2% last year, 3% average. Cotton planting continued with 75% planted, 90% last year, 94% average. Some reseeded of cotton was active. Winter wheat is 70% headed, 72% last year, 74% average. Planting of dry beans gaining momentum. Sugarbeet and field corn planting getting underway. Some cut oat and alfalfa hay damaged by rain. Activity limited due to rain. Evidence of tree loss continues. Trees being pulled. Early cherry, Burlat, sustained heavy losses - rains caused fruit to crack. Bing variety very light set. Hail storm 29th, eastside Contra Costa County and northern Sacramento Valley. Leaves knocked off. Damages not yet determined. Kiwifruit heavy bud set. Vine losses reported. Growth slow due to cool soil. Pecans leafed out, catkin stage. Blight problems in walnuts. Almonds progressing normally. Prune good to heavy set. Navel orange harvest winding down. Quality diminishing, fruit soft and some puff and granulation. Valencia orange harvest started, small sizes. Desert grapefruit harvest continues, quality good. Rainfall hampered activities in vegetable areas. Artichoke quality variable. Asparagus harvest continues. Broccoli harvest continued Salinas-Watsonville area, South Coast area. Carrot harvest active San Joaquin Valley. Cauliflower supply limited South Coast with moderate supply in Salinas-Watsonville area. Celery harvest continues South Coast, variable quality. Lettuce harvest reached mid-point San Joaquin Valley, good quality; limited harvest South Coast. Movement fall potatoes continues Tulelake-Butte Valley area. Harvest fall crop expected complete end of week, Riverside area. Horseradish harvest full swing Tulelake Basin. Strawberry harvest delayed by rains, quality problems. Harvest active South Coast area, price and quality good. Planting market tomatoes rain delayed most areas. Field preparation planting of processing tomatoes continued as weather permitted. Range conditions continue excellent. Grass maturing Foothill Districts, movement livestock summer grazing areas increasing. Fat lambs moving to market. Sheep shearing nearing completion northern areas.

COLORADO: Mostly clear and warm during first half of week. From 27th thru 30th cooler temperatures and extensive precipitation. In mountains 1 to 2 feet new snow. Moderate rain at lower elevations. On 29th and 30th a few severe thunderstorms on eastern Plains.

Winter wheat excellent condition; 17% jointed; none headed to date. Spring fieldwork behind normal due to wet soils. Corn 5% planted, last year 26%, average 16%. Barley 61% seeded, average 73%; 38% emerged, in 1982 37%, average 42%. Spring wheat 52% seeded, about normal. Oats 40% seeded, last year 74%, average 62%. Most spring crops in good condition. Two days suitable for fieldwork. Topsoil and subsoil moisture adequate to surplus.

Range and pasture condition good. Livestock in good condition.

FLORIDA: Mild, dry spring weather prevailed, low 80's early week, low to mid 80's late week. Some record lows recorded night of 25th, south, central areas, lows averaged 40° north and 50's south. The only precipitation during the week occurred along southeast coast late 29th, 30th.

Soil moisture adequate south, adequate to excessive all other areas. Showers continued during week, flooding low, poorly drained fields. Corn poor condition. Tobacco fair condition. Peanut, soybean, cotton planting delayed due wet cold soils. Wheat condition declining, all wheat headed. Sugar-cane fair to good condition. Pasture conditions fair to good across the State. Conditions in the north, central and Panhandle improving. Cattle in mostly good condition Statewide. Citrus grove condition excellent. Moisture generally adequate, few growers irrigating. Remaining Valencias holding well, with harvest very active all areas. Remaining grapefruit located on Lower East Coast. Mild days, cool nights continued in vegetable areas. Night temperatures early week averaged below normal. Skies mostly sunny with little to no rain. Winds mostly light to moderate. Irrigation increased some areas to maintain soil moisture. Total shipments increased 16% from previous week. Harvest gained snap beans, cabbage, sweet corn, cucumbers, okra, potatoes radishes, Southern peas, squash. Supplies about steady carrots, celery, Chinese cabbage, eggplant, lettuce, parsley, peppers. Volume declined cauliflower, escarole, strawberries, tomatoes. Commercial picking of strawberries, Hillsborough-Manatee area, continues to decline while U-pik increases. Watermelon harvest very light as maturity delayed by cool nights. Rainfall amounts in State were very low, under 0.10 in.

GEORGIA: Week marked transition to more seasonal weather conditions. Cool and wet into midweek. But dry and mild by late in period. Temperatures about 5° below normal, but near normal by end of period. Rainfall somewhat spotty, but averaged about 0.75 in. north and 2.00 in. south. A sunny, pleasant 30th and 1st with temperatures about 5° above normal. Dry except for scattered light showers extreme north late 30th.

Soil moisture 74% adequate, 23% surplus, 4.0 days suitable for fieldwork. Planting, land preparation and spraying main activities. Corn 83% planted, 93% last year, 91% average; condition 24% poor, 55% fair, 21% good. Cotton 20% planted, 39% last year, 61% average; condition 21% poor, 79% fair. Grain sorghum 8% planted, 19% last year, 20% average; condition 31% poor, 69% fair. Peanuts 22% planted, 32% last year, 47% average; condition 13% poor, 65% fair, 18% good. Soybeans 2% planted, 4% last year, 5% average; condition 75% fair, 25% good. Tobacco 94% transplanted, 99% last year, 98% average; condition 32% poor, 62% fair, 6% good. Watermelons 88% planted, 91% last year, 89% average; condition 5% very poor, 33% poor, 58% good. Wheat 93% boot, 71% headed, condition 8% very poor, 8% poor, 39% fair, 43% good. Considerable frost damage to wheat in central areas. Rye condition 7% very poor, 11% poor, 33% fair, 46% good. Other small grains 5% very poor, 7% poor, 35% fair, 51% good. Apples 88% in bloom; condition 31% very poor, 24% poor, 33% fair, 12% good. Peaches 41% very poor, 15% poor, 26% fair, 18% good. Pastures 4% poor, 33% fair, 56% good, 5% excellent.

HAWAII: Weather was generally fair for crop growth. Overcast skies and moderate rainfall prevailed over most of the Island Chain. The rains helped crops in East Hawaii gradually recover from drought-like conditions during the first quarter. Heavy cabbage and lettuce supplies expected to continue. Most other vegetables will have light to

moderate production. Papaya production expected to continue increasing into summer.

IDAHO: A low pressure system moving through the State was a dominate factor for the rainfall received over the entire State the first part of the week. Northern portions then came under the influence of continuous northerly air flow which kept that area dry for the remainder of the week. Southern areas on the other hand had a mixture of weather phenomena which created record breaking rainfall amounts. Several stations in south reported rainfall measurements of over 1.00 in. within a 24-hour period. Temperatures averaged out to be near normal considering the mixed bag of weather the State received over the week. Rain returned limiting farmers to 4.0 days of fieldwork. Spring wheat seeded rose to 70% complete compared to 69% last year and 70% average. Barley seeded at 43% trailed last year's 48% and the average of 56%. Potatoes at 29% planted were ahead of the previous year's 27% and the average 24%. Onions planted progressed to 91%, 9 points behind 1982. Sugarbeets at 90% were 2 points ahead of last year. Dry peas were 46% planted while corn moved to 14% planted. Forage growth on ranges was slow. Livestock were in good condition.

ILLINOIS: Temperatures average 1° below normal to 3° above normal, maximums above 70° south. Precipitations moderate to heavy ranging from 0.20 to 7.00 in., lightest north, heaviest extreme south, some flooding.

Soil moisture before weekend's rain 2% short, 62% adequate, 36% surplus. Days suitable for fieldwork 4.5. Corn 12% planted, 1982 26%, normal 18%. Winter wheat condition 4% excellent, 78% good, 18% fair. Oats 73% seeded, 1982 93%, normal 85%. Tillage for 1983 corn and soybeans acres 83% complete, 1982 88%, normal 85%. Pasture supplying 50% livestock roughage requirements; condition 13% excellent, 75% good, 12% fair. Alfalfa condition 10% excellent, 76% good, 14% fair. Livestock good condition.

INDIANA: Fieldwork averaged 5.0 days. Topsoil and subsoil moisture adequate. Spring cropland 80% tilled, 1982 80%, average 75%. Corn 10% planted, 1982 20%, average 10%. Oats 85% seeded, 1982 80%, average 75%. Oats 3 in. tall, 1982 1 in., average 3 in. Wheat fair to good condition. Wheat 11 in. tall, 1982 7 in., average 10 in. Wheat 40% jointed, 1982 30%, average 30%. Wheat 5% in boot, none headed, 1982 0%, average 5%. Apple buds 60% alive, peach buds 45% alive. Pasture fair to good.

IOWA: Temperatures varied from near normal west to a few degrees warmer than normal east. Little precipitation fell until the weekend.

Days suitable 5.6. Plowing completed 56%; 83% last year; 80% normal. Fertilizer applied 54%; 77% last year; 56% normal. Oats seeded 62%; 93% last year; 84% normal. Oats emerged 5%; 30% last year; 46% normal. Corn planted 10%; 11% last year; 23% normal. Topsoil moisture 3% short; 76% adequate; 21% surplus. Subsoil moisture 52% adequate; 48% surplus.

KANSAS: Precipitation averaged 1.00 to 1.25 in. east, diminishing westward 0.30 to 0.50 in. central and northwest, less than 0.10 in. southwest. Temperatures averaged 56 to 59° west and central, 61 to 63° east--normal northeast, 1 to 3° above normal elsewhere.

Wheat 60% jointed, 80% last year, 65% average; 0% headed, 0% last year, 10% average. Corn 10% planted, 20% last year, 25% average. Sorghum 0% planted, 0% last year, 1% average. Spring planting of small grains nearly complete. Wheat good to excellent Statewide. Insect, disease and wind damage slight. PIK acres heavily grazed or being destroyed. Soil moisture adequate west, adequate to surplus central and east. Pasture and range

good to excellent, providing 46% of roughage requirements. Days suitable for fieldwork: 3.0.

KENTUCKY: Week brought showers and thunderstorms along with heavy rains. Daytime highs averaged from mid 70's to low 80's with night-time average lows from 30's to low 40's. Mean temperatures ranged from mid 50's to mid 60's. Precipitation amounts ranged from less than 1.00 in. across parts of southeast to near 7.00 in. across parts of west.

Soil moisture mostly surplus after weekend rains. River bottoms and other low-lying fields were flooded. Days suitable for fieldwork: 3.0. Farm work 8 days behind schedule. Corn planting slowest progress since 1973. Corn 6% planted, last year 26%, average 27%. Tobacco plants fair to good condition. Plant development slow and 3/4th of plants up are size of dime or less. Tobacco setting will be later than usual. Barley heading, wheat beginning to head. Peach and strawberry prospects reduced by earlier freezes. Pastures good to excellent.

LOUISIANA: Virtually no rainfall. Temperatures averaged from 1° above normal in the northwest to 2° below in the southeast. High 86°, low 39°.

Soil moisture adequate. Days suitable 5.1. Spring plowing 72%, 87% 1982. Corn planted 79%, 91% 1982; 84% average. Corn emerged 67%, 85% 1982, 75% average. Rice planted 62%, 70% 1982, 77% average. Rice emerged 45%, 59% 1982, 66% average. Condition poor to fair with some reports of losses due to watermold. Sorghum planted 41%, 50% 1982, sorghum emerged 14%, 36% 1982, condition fair. Wheat headed 68%, 93% 1982, 85% average. Wheat turning color 30%, 23% 1982. Condition fair to good. Reports of septoria on wheat acreage, but past treatment stage. Sugarcane rated fair to good. Vegetables rated fair to good. Commercial strawberry growers expecting 40% loss due high water. Some vegetable farmers picking strawberries, planting cucumbers. Sweetpotato beds look good. Pasture and livestock fair to good condition. Cotton planted 14%, 25% 1982, 33% average.

MARYLAND AND DELAWARE: Temperatures 1 to 5° above normal, highs upper 80's, lows upper 30's. Rainfall totals mostly between 1 to 2 in. Since March 1 stations reporting 4 to 10 in. above normal rainfall.

Warm, dry weather enabled plowing progress. In Maryland 35% plowed, last year 80%. Small grains fair to good. Several diseases and wet spots results of abundant moisture. Oats planted 55%, last year 90%. Tobacco beds all seeded. Potato acreage planted 70%, last year 100%. Green peas 70%, last year 100%. Snap beans 25%, last year 35%. Sweetpotato beds 100% this year and last. Peaches 35% in bloom. Days suitable for fieldwork: 5.0. In Delaware 5.0 days suitable for fieldwork, 50% of land was plowed, last year 85%. Small grains good up north, mostly fair southern 2/3. Corn planting underway. Barley beginning to head. Acreages planted: Green peas 75%, last year 100%; potatoes, 65%, snap beans 0%; peaches 100% in bloom.

MICHIGAN: After several weeks of below normal temperatures, spring-like conditions have returned to State. Average temperatures were close to 2° above normal. Heavy rains late in the week caused flooding problems in southwest.

Rain limited fieldwork. Corn planting got underway and is 2% in, 10% last year, 6% normal. Oats planting 35% complete, 65% last year, 50% average. Sugarbeet seeding 35% complete. Onion and celery planting in western areas. Planting of early varieties of potatoes has begun.

MINNESOTA: Temperatures averaged 1.6° below normal for northeast and 1.6 to 2.6° above normal for east central and southeast. Elsewhere near normal. Extremes 77° Preston and 23° Browns Valley. Precipitation averaged below normal with 0.03 to 0.10 in. below normal for southwest, cen-

tral and east central, 0.29 to 0.58 in. below normal elsewhere. Precipitation totals averaged 0.08 to 0.20 in. for northern 1/3 of State and 0.31 to 0.54 elsewhere. Greatest amount 1.57 in. at Minneapolis.

Average date to begin fieldwork was May 1. Southern counties very wet but Red River Valley topsoil is dry and ready for planting. Hay fields and pasture in good condition but very little growth so far. Topsoil moisture rated 8% short, 52% adequate, and 40% surplus. Subsoil rated 5% short, 52% adequate, and 43% surplus. Planted: Spring wheat 30%, 1982 32%, normal 43%; oats 27%, 1982 41%, normal 46%; barley 23%, 1982 20%, normal 35%; sugarbeets 34%, 1982 39%, normal 41%; green peas for processing 19%, 1982 21%, normal 26%. Ground prepared: Field corn 12%, 1982 18%, normal 27%; soybeans 4%, 1982 9%, normal 13%.

MISSISSIPPI: Temperatures 5 to 8° below normal. Extremes 30 and 85°. No rainfall during week except in extreme north area of State.

Soil moisture surplus to adequate. Land preparation and planting active. Fieldwork: 4.5 days suitable, 2.2 last year, 3.0 average. Cotton 20% planted, 22% last year, 34% average. Rice 18% planted, 42% last year, 59% average; 4% to stand, 22% last year, 26% average. Corn 40% planted, 65% last year; 24% to stand, 48% last year. Sorghum 3% planted; peanuts 6%; watermelons 28%; sweetpotatoes 4% planted. Winter wheat 54% headed, 92% last year; condition fair to good. Pasture condition good to fair. Peach condition fair to poor.

MISSOURI: Normal temperatures occurred throughout State, marking the first time this year temperatures have been normal Statewide. Rainfall was widespread and plentiful. Individual storms dumped well over 2.00 in. of rain in areas. Almost 7 in. fell in the southeast, while only 0.75 in. fell in the extreme northeast. Tornadoes touched down in the southwest part of the State, and flooding occurred over much of the southern half. This was attributed to a stationary front lying east and west over State.

Sixty-two percent of plowing for spring-planted crops completed, 76% last year and 62% normal. Oats 75% sown. Corn 12% planted, 38% last year and 28% normal. Cotton 11% planted, 4% last year and 18% normal. Winter wheat 2% excellent, 34% good, 55% fair and 9% poor. Pasture condition 4% excellent, 43% good, 47% fair and 6% poor. General livestock condition 1% excellent, 48% good, 48% fair and 3% poor. Topsoil moisture supply 59% surplus, 39% adequate and 2% short. There were 3.0 days suitable for fieldwork.

MONTANA: Temperatures averaged 2 to 5° below normal. Warm early in week, cool midweek and warming again end of the week. Moderate to heavy precipitation early in week in west, mostly light precipitation elsewhere except some areas of south central that received moderate amounts midweek.

Topsoil moisture short to adequate, subsoil moisture mostly adequate. Winter wheat condition still good--cool weather slowing growth. Nearly 5.0 days suitable for fieldwork. Planting progress: Spring wheat 50%, normal 30%; barley 60%, normal 40%; sugarbeets 45%, normal 50%; oats 40%, normal 30%. Calving 85%, lambing 80%, shearing 75% complete. Ranges growing slowly. About 10% cattle and sheep moved to summer ranges.

NEBRASKA: Rainfall was general across State with 0.10 to 0.20 in. north and 0.30 to 0.50 in. south. Heavy amounts of up to 3.00 in. fell in parts of State over the weekend. Temperatures 5° below normal in west and 3° below normal in east.

Winter wheat good, jointed 10%. Corn planting 2%, 5% last year and 10% normal. Oat seeding 65%, compared to 90% last year and normal. Feedlot conditions improved until weekend rains. Both top-

soil and subsoil moisture mostly adequate to surplus Days suitable 5.2.

NEVADA: Storm fronts moved across State beginning and end of period. Both systems produced significant amounts precipitation with rain, snow and hail valleys and heavy snow higher elevations. Weekly temperatures averaged 5° below normal all areas.

Field activities increasing between showers and generally inclement weather. Potato planting gaining momentum. Alfalfa hay harvest on upswing extreme south. Range grazing prospects excellent.

NEW ENGLAND: Cool temperatures hit New England early in the week. Frontal systems passing through the region, however, brought warmer conditions from 27th on. Temperatures averaged 2 to 5° above normal. Precipitation was on-and-off throughout New England during most of the week, with heaviest rainfall 25th, 26th, 30th and 1st. Northern areas received the greatest amounts with 2.42 in. measured in St. Johnsbury, VT.

NEW JERSEY: Temperatures averaged 6° above normal. Extremes 33° at Glassboro on the 27th and 89° at Trenton, Pemberton & Hammonton on the 29th. Rainfall averaged 0.09 in. north, 0.01 in. central and 0.02 in. south. Heaviest 24-hour total 0.13 in. at Long Valley on the 25th to 26th. Estimated soil moisture, in percent of field capacity, averaged 94% north, 86% central and 85% south. Four in. soil temperatures averaged 57° north, 64° central and 61° south.

Fieldwork: 2.6 days suitable. Above normal temperatures reducing excess soil moisture and improving crop growth. Fieldwork increasing as soils become workable. Asparagus, spinach and "greens" moving to market. Apples in bloom. Peaches past full bloom in south. Blueberries and strawberries beginning to bloom. Soil preparation for field corn and soybeans progressing as soils dry. Fall seeded grains being topdressed. Some oats being planted. Pasture and hay growth improved.

NEW MEXICO: Temperatures near normal Statewide. Scattered showers few north locations over weekend. Minimum temperature 21° northern mountains. Mostly open weather.

Cotton 35% planted. Alfalfa good, cutting continues south. Wheat good with some excellent, mostly jointed. Barley good, 80% jointed. Corn planting continues. Lettuce, onions good condition. Lettuce harvesting beginning. Cattle, sheep good condition. Range fair to good. Cotton 35% planted, last year 60%, average 58%.

NEW YORK: Temperatures above normal, rainfall well above normal across State.

Fields in most areas continued wet and largely unworkable. Oats under 5% planted, 10% 1982, 27% average. Hay condition good. Vegetable planting progress slow. Most areas too wet for onions or potatoes. Strawberries wintered well. Western apple orchards from green tip stage to three leaf stage. Hudson Valley apples in tight cluster stage. Most peaches in pink stage, some early varieties in bloom in Columbia County.

NORTH CAROLINA: Temperature near normal Statewide. Precipitation light to moderate.

Soil moisture: 65% adequate and 35% surplus. Days suitable for fieldwork: 4.3. Condition: Small grains mostly good. Tobacco plant beds: 5% poor, 54% fair, 41% good. Irish potatoes: 38% poor, 39% fair and 23% good. Peaches: 77% poor, 14% fair and 9% good. Pasture: 21% fair, 72% good and 7% excellent. Truck crops: 29% poor, 51% fair, 17% good and 3% excellent. Planted corn 37%, 82% last year, 83% average. Irish potatoes: 86%, 100% last year, 98% average. Major farm activities: Corn planting, planting

potatoes, land preparation and transplanting tobacco.

NORTH DAKOTA: Most of week cool with temperatures near normal east and around 3° below normal west. Extremes from 77° northeast, east central and south central on 25th and 26th to low of 12° west central 29th. Precipitation averaged 0.30 in. below normal.

Planting of small grain and row crops behind normal due to cool soil temperatures and some wet fields. Small grain seeding nearly complete south-east but just getting underway northern part of State. Planting row crops to start along southern part of State. Soil moisture conditions mostly adequate with some shortage report in southeast and northwest. Seeding of small grains done for hard red spring wheat 15%, durum 6%, barley 10% and oats 14%. Averages are 26%, 17%, 23% and 23%. Winter wheat, rye mostly stooing or earlier stages. Pastureland mostly fair to good condition.

OHIO: Temperatures averaged above seasonal levels across the State. Precipitation averaged 1.00 to 3.00 in. with over 5.00 in. reported along the southwestern border. Soil temperatures have been cool throughout the season, but increasing with warmer air temperatures.

Favorable condition early in the week for fieldwork. Winter wheat height to 9 in., crop reported in good condition. Apples fair to good, peaches fair condition. Seeding sugarbeets and tomatoes. Corn, planted 15%, 35% 1982, 15% average. Potatoes, planted 20%, 25% 1982, 25% average. Soybeans, planted 2%, 5% 1982, 2% average. Oats, planted 70%, 65% 1982, 65% average. Tobacco beds, sown 90%, 95% 1982. Days favorable: 5.0. Pasture condition good. Soil moisture 3% short, 82% adequate, 15% surplus.

OKLAHOMA: Temperatures ranged from 1° below normal in north to 4° above normal east central. Rainfall ranged from none in west to 1.30 in. northeast and southeast.

Welcomed sunshine and warmer temperatures increased growth and development of wheat and other small grains. Wheat in good condition. Pastures and livestock in good to fair condition. Alfalfa first cutting underway. Cotton planted: 0%, 1% 1982, 1% average. Wheat heading: 10%, 30% 1982, 45% average. Sorghum planted: 5%, 5% 1982, 5% average.

OREGON: Precipitation along coast up to 3.00 in.; up to 0.90 in. mid-State; less than 0.50 in. elsewhere. Temperatures averaged 1 to 2° above normal from Upper Coast to Willamette Valley; 2° below normal elsewhere.

Winter wheat in good to excellent condition. Some fields booting; evidence of rust in Pendleton area. Barley condition good. Corn planting continues; early fields emerged. Hay fields making good growth; cutting ready to start. Spraying, planting and fertilizing continuing. Thinning sprays going on apples in Hood River Valley; blossom drop sprays going on pears. Scab and fire-blight sprays being applied in southern area pear orchards. Strawberries blooming; new plantings going in. Root rot and virus apparent in red raspberries. Twig blight in cranberry bogs at high levels. Potato and onion plantings continue; early fields emerged. Snap bean and sweet corn seeding started; peas all in; early broccoli and cauliflower about all planted. Asparagus harvest in full swing. Livestock in good shape; calves doing well. Some ticks starting to show up in Umatilla County. Range prospects excellent as cattle were being turned out.

PENNSYLVANIA: More spring-like than the previous weeks. Average temperature of 55° was 3° higher than normal and jumped 14° above last week's average. Average temperatures have not been this high since last October. Extremes were 87 and 25°. Av-

erage precipitation of 1.42 in. was 0.60 in. above normal. Most of the rain fell in the beginning and end of the week and there was no pattern to the distribution.

Days suitable: 4.0. Moisture surplus to adequate. Activities: Plowing; discing; spraying; spreading manure, fertilizer and lime; green chopping and ensiling rye; and planting oats, corn, tobacco beds, potatoes, sugar peas, onions, cabbage, lettuce, and alfalfa. Plowing 39% complete, last year 49%, average 58%. Oats 41% planted, last year 58%. Potatoes 19% planted compared with 38% last year. Planting tobacco beds 70% complete, last year 48%. Corn less than 5% planted, last year less than 5%, average 8%. Hay stand conditions good to fair. Feed from pastures average to below average. Peaches 40% pink and 23% in full bloom or past, last year 45% pink and 14% in full bloom or past. Cherries 36% pink and 13% in full bloom or past, last year 45% pink and 10% in full bloom or past. Apples 27% pink and less than 5% in full bloom or past, last year 26% pink and 7% in full bloom or past.

PUERTO RICO: Island average rainfall 0.96 in. or 0.29 in. below normal. Highest weekly total 7.26 in. Highest 24-hour total 7.11 in. Temperature averaged about 83 to 79° on Coasts and 78 to 74° Interior Divisions. Mean station temperature ranged from 83.9 to 67.8°. Extremes 95 and 60°.

SOUTH CAROLINA: Warmest and driest week of spring during second coldest April on record. Weekend daily highs reached 80's with light scattered rainfall early in week the only precipitation.

Adequate soil moisture with 5.0 days suitable for field activity. Plowing reached 53%. Corn mostly growing out of cold injury, planting in high gear reached 73%, 94% last year, 93% average; condition poor to fair. Cotton condition poor, soils just now favoring seeding; 29% approaching year ago's 35%, behind 66% average. Tobacco injured by last week's freezes resulted in poor to fair condition, counties replanting as much as half or spots, transplant shortage and buying elsewhere. Peanuts planting at 14%, behind 36% year ago, 33% average, very poor to poor condition. Some wheat in heading, blooming stages vulnerable to cold injury, damage scattered Statewide, condition fair. Peach crop damaged Statewide, regional losses at least half due to cold, condition very poor to poor. Apples injury also severe, enough escaped for roadside sales but shipping questionable. Estimate 25% of tomato planting wiped out and already replanted. Harvest will be delayed 2 weeks and yields greatly reduced; condition fair to good.

SOUTH DAKOTA: Temperatures were near normal across the State. Extremes: 81 and 17°. Precipitation was greatest in the southwest and central with a high report of 2.32 in.

Topsoil moisture was mostly adequate or surplus except for small shortage areas in the extreme southwest and northeast corners. Major activities were field preparation, small grain seeding, calving and lambing. Fieldwork 4.0 days suitable. Winter wheat and rye in good to excellent condition throughout State. Feed and stock water supplies in good to excellent condition over State except extreme southwest where conditions are fair. Range and pastures in good condition. Calving and lambing 70% complete. Thirteen percent of cattle moved to summer pasture. Spring wheat seeded 36%, 1982 55%, average 66%. Barley planted 21%, 1982 52%, average 62%. Oats planted 23%, 1982 64%, average 69%.

TENNESSEE: Days suitable for fieldwork: 3.0. Soil moisture 1% short, 69% adequate, 30% surplus. Tobacco in fair condition; 85% of beds have plants up. Corn planted 13%, 1982 23%, average 38%. Cotton planted 6%, 1982 10%, average 24%. Wheat headed 3%, 1982 27%, average 39%. Some wheat disease

reported. Production loss due to freeze: Apples 54%, peaches 75%, strawberries 56%. Pastures fair to good condition. Cattle good condition.

TEXAS: Generally warm, dry conditions prevailed. Little precipitation. Temperatures warmer during week, only Central Texas significantly below normal.

Crops: Fieldwork continued to make good progress. Warmer temperatures, steady winds further depleted soil moisture. Planting of spring crops continued. Cotton planting continued, remains well behind last year. Planting Blacklands, Cross-Timbers active. Producers in Plains applying herbicides, awaiting warmer soil temperatures to get planting underway. South Texas, Coast, stands good conditions. Sorghum planting made good progress, activity extending to Low Plains. Stands Central, South Texas in good condition. Some replanting necessary Central Texas. Insect damage minimal. Irrigation active. Corn planting gaining momentum High Plains, complete or nearing completion southern areas. Recent warm temperatures aided development, stands in good condition. Small grain fields continue to develop rapidly. Moisture shortages significant as wheat, oat fields enter critical development. Plains most fields in boot stage, fields in other areas heading out, beginning to turn color. Greenbug problems diminished. Reported wheat condition 84% of normal compared with 66% last year. By week's end 21% excellent; 47% good; 30% fair; and 2% poor. Rice emerging, stands in good condition. Flooding underway. Cotton planted 12%, 17% 1982, 21% average. Cotton squaring 0%, 2% 1982, 1% average. Rice planted 89%, 90% 1982, 91% average. Rice emerged 47%, 73% 1982, 58% average. Sorghum planted all purposes 67%, 66% 1982, 65% average. Wheat headed 32%, 45% 1982, 35% average. Wheat turning color 1%, 4% 1982, 1% average. Oats for grain harvested 0%, 1% 1982, 0% average. Corn planted for all purposes 79%, 84% 1982, 79% average. Peanuts planted 12%, 6% 1982, 11% average. Sugarbeets planted 92%, 100% 1982, 98% average. Sunflowers planted 5%, 6% 1982, 3% average.

Commercial vegetables: Rio Grande Valley, harvest of spring onions nearing completion. Harvest of carrots, squash active. Watermelons making good growth. Harvest of grapefruit, Valencia oranges continued. Coastal Bend, cucumbers, watermelons continued to make good growth. Tomatoes developing well. San Antonio-Winter Garden, harvest of carrots, cabbage continued. Onion harvest gaining momentum. East Texas, tomatoes shown good growth. Watermelon planting continues. Trans-Pecos region, warm weather promoted rapid onion growth. Cantaloups, watermelons emerging. Moisture supplies short, irrigation stepped up. Plains, onions, potatoes making excellent growth. Peaches continue to develop rapidly. Producers applying cover sprays, thinning trees. Fruit set appears heavy. Pecan trees in excellent condition, some orchards South Texas setting fruit.

Range and livestock: Range, pasture conditions deteriorating. Despite warmer temperatures, growth of grasses, other forage slowed by lack of rainfall. Grazing remains fair, portions of Central, South Texas have limited availability. Livestock condition good to excellent.

UTAH: Recurring periods precipitation, accumulations moderate northwest but light southeast part State. Below normal temperatures all divisions, individual stations ranging 6° below to 2° above normal.

Floods, high water tables, and wet fields further delayed spring activity. Only 4.0 days suitable for fieldwork, Statewide. Spring wheat and barley 40% planted compared with 75% last year. Growth of winter wheat, hay, and pastures delayed by cool weather. Hay running short. Death losses, in newborn calves and lambs, above normal.

Fruit crop rated good, but warm weather needed for pollination.

VIRGINIA: Wet and cool at the beginning becoming dry and warmer by midweek. Rainfall at the beginning of the week averaged around 2.00 in. ranging from 2.60 in. at Warrenton to 0.10 at Farmville. Temperatures ranged from a high of 90° in central and northern divisions to a low of 28° at Blacksburg in the southwest.

Continued improvement in topsoil moisture, 69% adequate, 32% surplus, enabled farmers 3.3 days suitable for fieldwork, nearly double last week's average. However, planting progress is behind normal because of recent cold weather. Corn seeding jumped to 24% complete, 51% last year and 48% average. Germination has been slow because of cool temperatures and stands, so far, lighter than normal. Farmers began limited fertilizing and spraying. Soybean seeding underway in central areas and is about 1% complete, compared with 2% last year and a 4% average. Peanut growers have seeded 4% of the crop, considerably behind last year's 20% and the 13% average. Potato planting about 78% complete, 94% last year and complete on the average. Flue-cured tobacco transplanting about 1% complete, 2% last year and average. Plants in fair to good condition with no reported shortages because of freeze damage. Small grains still in good condition although some yellowing because of nitrogen leaching evident. Topdressing active. Minor problems have occurred with cereal leaf beetle and powdery mildew in the east and southwest, respectively. Cutting rye for silage active. Hay and pastures in good condition but growth has been slow. Spraying for alfalfa weevil active in some areas of central State. Seeding and fertilizing of other crops active. Fruits doing well except for early varieties. Vegetable planting getting underway. Greens up and doing well. Livestock in good condition with pasture use increased as fields dry out. Sheep shearing in the east has started and movement of lambs to market increasing.

WASHINGTON: Several short waves slid through the first half of the period. Cool, moist air was distributed by an on-shore flow and rain was widespread throughout the State. The latter half of the week was marked by a stalled low center off the California coast. The result was a drier flow from over land which suppressed clouds.

Wheat and barley in good condition. Seeding of spring field crops active. First cutting of alfalfa one week away. Apples in full bloom; thinning underway in Yakima Valley. Pollination conditions--fair to good. Berries range from full bloom to just starting. Truck farmers busy planting. Asparagus and other early vegetables coming off. Range and pasture in good condition. Livestock turned out and in good condition. Winter wheat headed, none same as last year and average.

WEST VIRGINIA: Temperatures above normal. High 90°, low 25°. Precipitation above normal except southern area. Range 0.22 to 2.25 in.

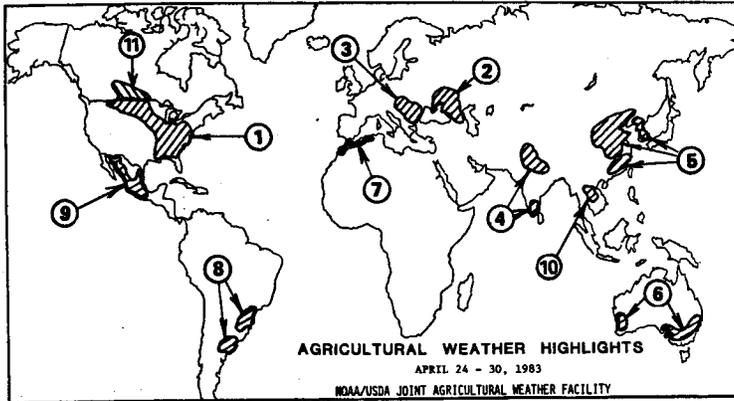
Soil moisture adequate to surplus. Days worked averaged 3.2. Main activities: Fencing, plowing, general maintenance and gardening. Corn, 3% planted. Oats, 47% planted. Tobacco beds, 93% planted and 39% emerged. Gardens 14% planted. Wheat and barley in good to fair condition. Pasture in fair to good condition. Fruit in poor to fair condition. Hay supply adequate to short, grain and other feed supplies adequate. Cool nights and damp conditions continue to hamper growth of pasture and crops.

WISCONSIN: The week started with warm dry weather with plenty of sunshine and temperatures reaching the 60's, 70's and 80's almost everywhere. The only exceptions were near Lake Michigan where the highs were in the 50's. Light showers developed

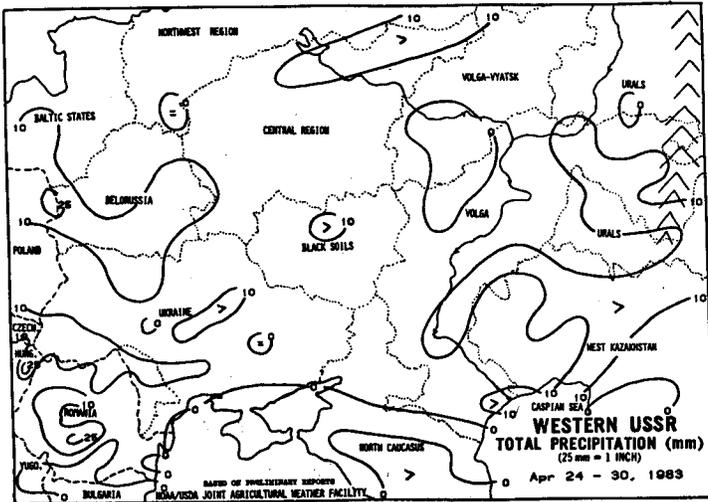
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International Weather and Crop Summary

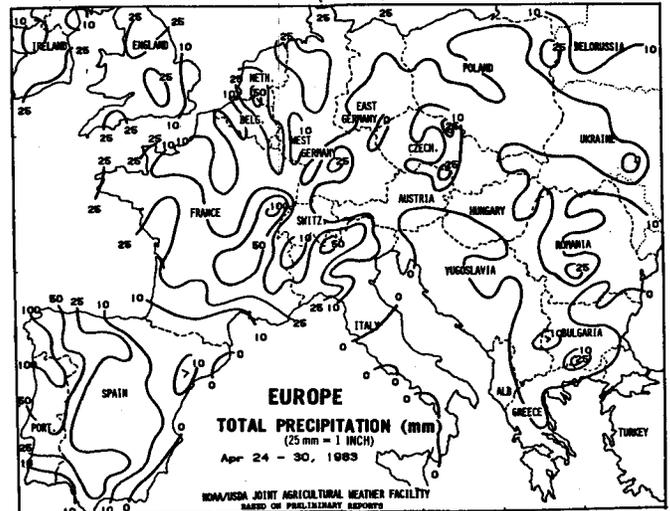
April 24 to 30



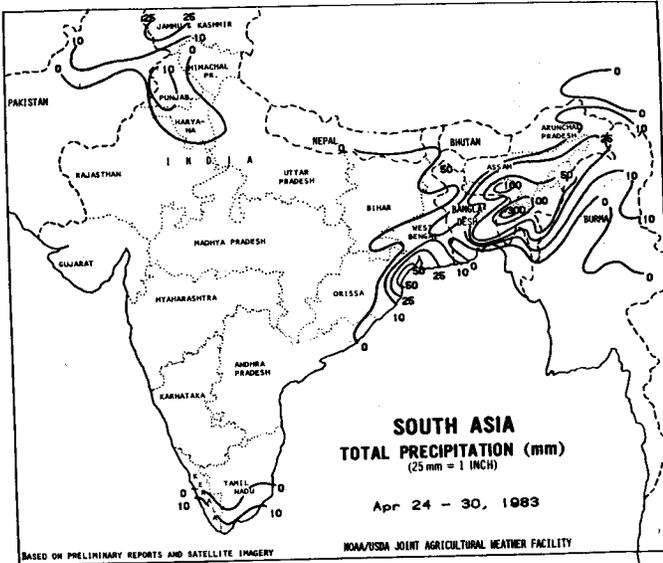
1. UNITED STATES ... Sunny, drying conditions favor corn planting in the Midwest during first part of week and field crops in the South and spring wheat in the northern Plains throughout the week. Rain delays field activities in California.
2. WESTERN USSR ... Drier weather returns to the major winter area where subsoil moisture is likely very low.
3. EUROPE ... Widespread showers continue to benefit crops in the Iberian peninsula. The southeast is becoming somewhat dry for winter grains in the vegetative stage and early growth of spring crops.
4. SOUTH ASIA ... Dry weather in wheat areas of Pakistan and India favors continued harvesting. Peninsular India remains dry, however, light rain indicative of premonsoon showers falls in extreme southern areas.
5. EASTERN ASIA ... Heavy precipitation covers much of the area, further delaying rice planting in the south, but benefiting winter wheat and summer crops in the north.
6. AUSTRALIA ... Preplanting rains benefit wheat areas of Queensland and northern New South Wales. Light showers cover remainder of wheat belt.
7. NORTHWESTERN AFRICA ... Dry weather continues to cover most winter grains in the heading stage, reducing yield prospects.
8. SOUTH AMERICA ... Heavy rain in southern Brazil delays the soybean harvest. Favorably dry weather aids corn and soybean harvests in Argentina.
9. MEXICO ... Continued dryness allows fieldwork, while soil moisture and irrigation supplies become shorter, especially in the central regions.
10. SOUTHEAST ASIA ... Some showers fall over eastern Thailand; elsewhere conditions are dry. Premonsoon showers increase in South.
11. CANADA ... Rain and snow cover Prairie Provinces with temperatures averaging slightly below normal.



WESTERN USSR... Generally light precipitation covered most crop areas as a ridge of high pressure persisted over the region. However, dry weather continued in the south-central Ukraine, stressing winter wheat in the vegetative stage. In addition, warm weather is further aggravating the low-moisture situation by increasing the rate of evaporation. Elsewhere, moisture conditions for crop growth appear favorable in the Baltic States, Belorussia, the western Ukraine, and the northern half of the region. In the southeast, topsoil moisture conditions likely are favorable in the eastern Ukraine, North Caucasus, and southern Volga Valley, but cumulative precipitation since August is well below normal, indicating that subsoil moisture supplies are extremely low. Weekly temperatures were 3-6°C above normal over the region, allowing sunflower and corn planting in the south and spring grain planting in the north.



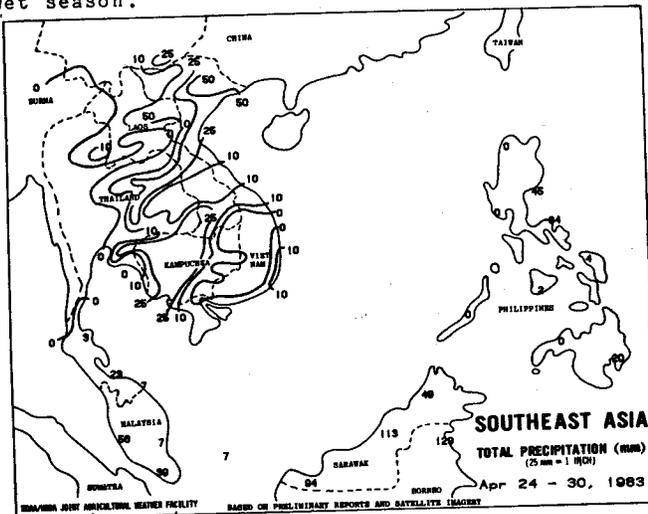
EUROPE... Widespread showers continued to cover the Iberian peninsula. Rainfall amounts ranged from 10 to 25 mm in Spain and 25 to 50 mm in Portugal, increasing reservoir levels. The moisture improved prospects for those winter grains still in the heading stage, as well as spring crop planting. In England, France, and West Germany, wet weather early in the week was followed by sunshine and drier weather, allowing spring fieldwork. Although light precipitation covered winter grains in Eastern Europe, unseasonably warm temperatures continued to reduce soil moisture needed for winter grains in the vegetative stage and spring planting.



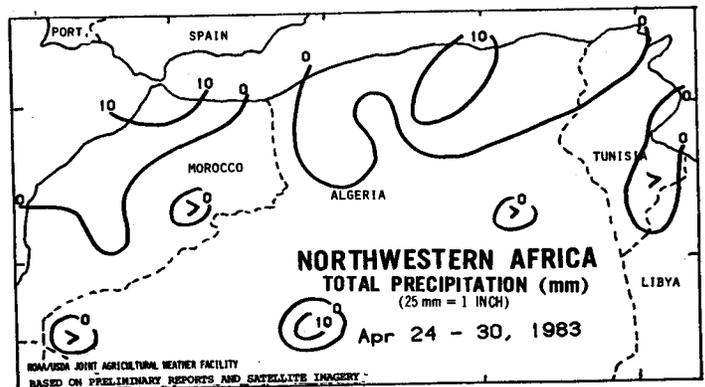
SOUTH ASIA... Northern Pakistan had one day of light showers with dry weather covering the area the remainder of the week. The dry weather favored continued harvesting of the winter wheat crop, reported to be about 50 percent complete. Heavy rains, which fell earlier in the month, are expected to damage the wheat crop minimally. Heavy rains, 100-300 mm, fell in eastern India and Bangladesh during the week. Northern India remained favorably dry for winter crop harvesting. The majority of peninsular India continued its persistent dry pattern. However, light showers were recorded in Kerala and Tamil Nadu, indicating that spring premonsoon activity may have begun. The late arrival of this moisture could delay planting of summer crops awaiting the onset of the wet season.



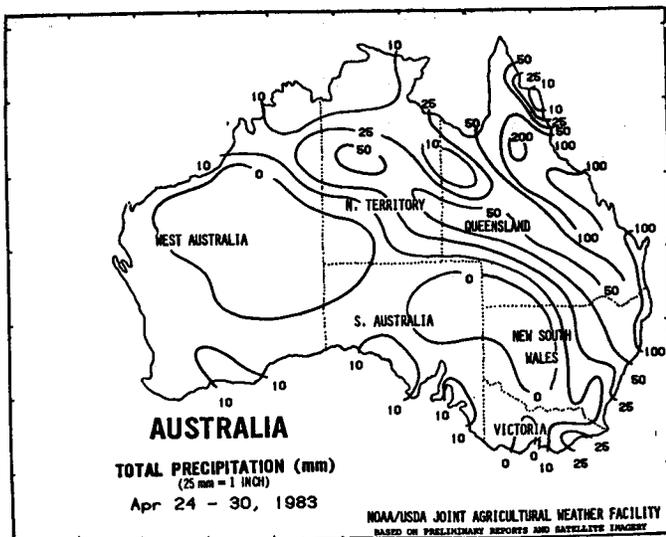
EASTERN ASIA... Heavy rainfall, 50-100 mm, covered much of the area south of the Yangtze River, continuing to hamper rice planting. The rain caused flooding in Guangxi and Guangdong during the week, while the southern coastal provinces remained relatively dry. Precipitation covered the wheat region in the North China Plain with heaviest amounts in the northern areas. This moisture benefited winter wheat as it nears the critical heading stage. Heavy precipitation was recorded in northeastern China, improving conditions for germination of corn and soybeans, which are normally being planted at this time. Substantial precipitation also fell in Korea, benefiting winter grains in late vegetative growth.



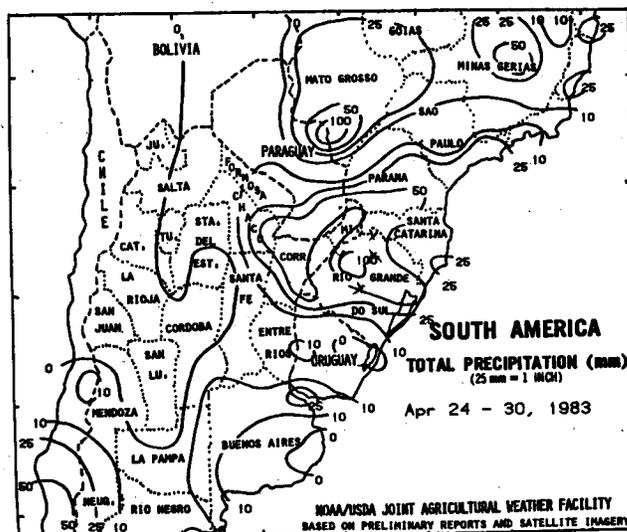
SOUTHEAST ASIA... Some showers fell over eastern Thailand with isolated amounts in excess of 20-25 mm. In general, however, totals were less than 10 mm. Virtually no rain fell in the important corn and rice growing areas of the Central Plains. Substantial rains, associated with the onset of the monsoon season, will be needed over the next several weeks to plant these crops. Premonsoon showers produced light rain over peninsular Thailand and satellite imagery suggests the likelihood of significant rain in Kampuchea. The strong westerlies circulation over southern China caused a band of heavy rain to extend into northern Vietnam and portions of Laos. Seasonal rainfall covered Malaysia while only scattered showers dotted the Philippines.



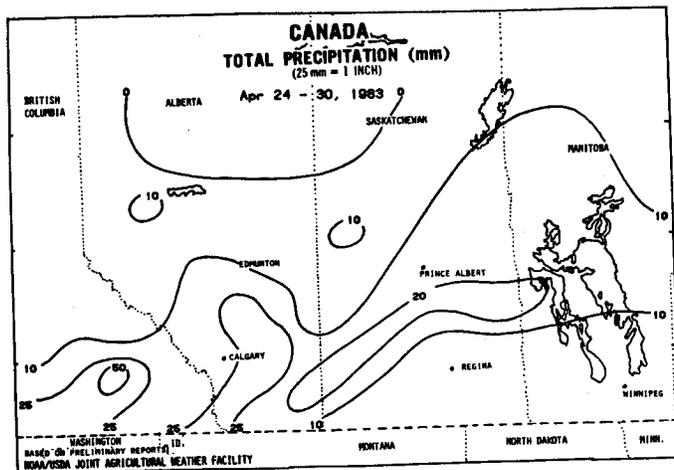
NORTHWESTERN AFRICA... Generally light precipitation covered winter grains in Morocco, but amounts were not significant enough to meet the moisture requirements of the crops. In northern Algeria, light showers benefited grains in central locations, but a large portion of the crop remained stressed by unseasonably warm, dry conditions. Grain areas in Tunisia also continued dry. Winter grains in all areas are in the moisture sensitive heading stage, and generally dry weather during the past several weeks in most areas has reduced yield prospects. Rain is needed soon in all crop areas to prevent the potential for further yield declines. Weekly temperatures were below normal in Morocco and above normal in Algeria and Tunisia.



AUSTRALIA... A broad band of substantial rains extended from the Northern Territory across nearly all of Queensland to northern wheat areas of New South Wales. The rains improved soil moisture supplies in southeastern Queensland and northern New South Wales in preparation for the wheat planting season which begins in May. Heavy rains drenched coastal areas of Queensland where sugarcane is maturing. Light showers covered the remainder of the wheat areas with locally heavier rain dotting portions of South Australia's crop area. The moisture situation has gradually improved during recent weeks, although additional rains are needed in crop areas to sustain the development of grains, cotton, and other crops.



SOUTH AMERICA... Heavy rain drenched southern Brazil for the second consecutive week, halting the soybean harvest in Rio Grande do Sul. The wet weather caused the harvest progress to lag slightly behind normal in the south. In contrast, more favorable weather in Parana allowed harvesting to progress at a more normal pace. Locally heavy showers also slowed late harvesting in southern Mato Grosso do Sul. The wet weather extended across into northeastern Argentina, causing harvesting delays from southeastern Chaco to the Brazilian border. Mostly dry weather further south aided corn, sorghum, and soybean harvesting from Cordoba through Santa Fe and northern Buenos Aires. Scattered showers fell over the wheat areas of Buenos Aires where planting will begin during May.



CANADA... The spring planting season will soon begin with mostly favorable moisture supplies throughout the Canadian Prairies. During the past week, both rain and snow covered the major grain areas. The heaviest precipitation fell over southern Alberta and extended northeastward through Saskatchewan. Minimal amounts of moisture fell elsewhere over the important agricultural lands of the Prairie Provinces. Temperatures averaged below normal for the week, delaying initial planting. Crop planting will become widespread during the next few weeks as spring temperatures warm the soil for crop germination and emergence.



MEXICO... Sunny, dry weather continuing over most of the country further depleted soil moisture in nonirrigated areas but favored fieldwork. Reservoir supplies are quite low in central areas, and the onset of the rainy season does not usually begin until a few more weeks. Warm weather continued over parts of the northeast, keeping crop water needs relatively high.

