

# WEEKLY WEATHER AND CROP BULLETIN

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

U.S. DEPARTMENT OF AGRICULTURE  
National Agricultural Statistics Service and  
World Agricultural Outlook Board

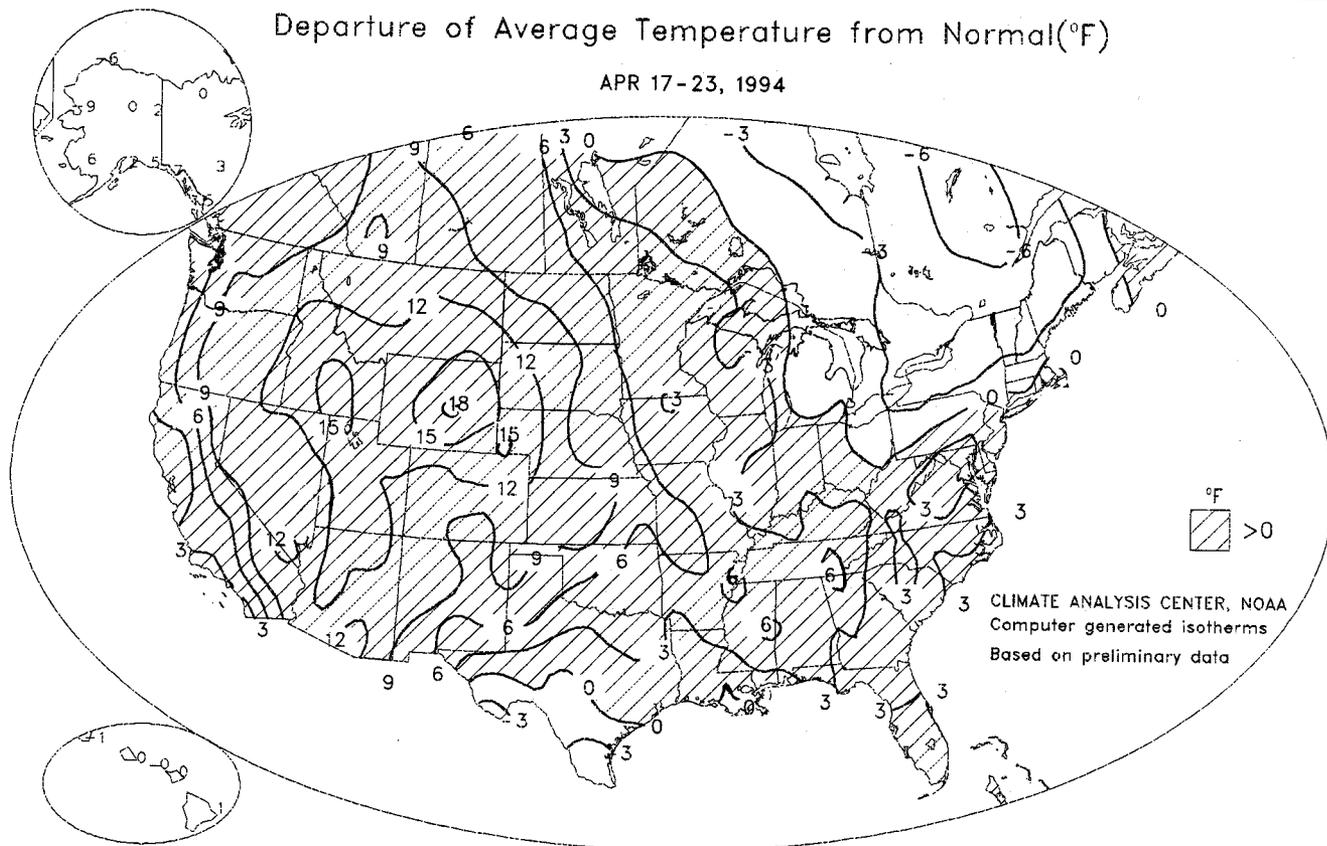
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April 26, 1994

## Departure of Average Temperature from Normal(°F)

APR 17-23, 1994



CLIMATE ANALYSIS CENTER, NOAA  
Computer generated isotherms  
Based on preliminary data

## HIGHLIGHTS

April 17 - 23, 1994

Warm, tranquil weather enveloped much of the Nation. Exceptions included frequent thunderstorms across **Peninsular Florida**, cool conditions in the **Northeast**, scattered midweek thundershowers in the **east-central Plains**, and increasingly stormy late-week weather from the **west coast** to the **northern Plains**. During the week, more than 100 daily record highs were tied or established. Many occurred in the **Central and interior Western States**, including 93°F in **Nebraska** at **Grand Island, Norfolk, and Omaha** on Monday, and 89°F in **Boise, ID** on Wednesday. **Pocatello, ID**, with 86°F on Thursday, tied an April record, and set or matched its fifth consecutive daily record. Meanwhile, thunderstorms ringed the **Gulf Coast States**. Some storms produced local downpours, including the one that deluged **West Palm Beach, FL** with 4.32 inches in less than 12 hours on Wednesday. Heavy rain also peppered the **east-central Plains**. Record warmth briefly slipped into the **Southeast** at midweek, where **Columbus, GA** and **Montgomery, AL** attained 90°F. However, a late-week front delivered cooler weather, with frost occurring as far south as **western Virginia**. On Saturday, **Charlottesville, VA**

and **Roanoke, VA** noted 33°F. **Burlington, VT** (24°F) and **Cleveland, OH** (27°F) tied daily record lows. Farther west, abundant jet stream energy chipped away at high temperatures and initiated a welcomed precipitation event. Late-week thunderstorms dumped more than 1 inch of rain on **Lubbock, TX**, more than doubling their rainfall total since January 1. Precipitation also spread from **California** to the **northern Plains**. In **central Nevada**, **Austin** was buried under 18 inches of snow (2 inches of liquid equivalent) by early April 24. Elsewhere, rainfall topped one-half inch at locations such as **Lewistown, MT** and **Oakland, CA**.

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# National Weather Data for Selected Cities

Weather Data for the Week Ending April 23, 1994

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 1	PCT. NORMAL SINCE Mar 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	TEMP. °F		PRECIP.	
																		.01 INCH OR MORE	.50 INCH OR MORE		
AL BIRMINGHAM	84	51	88	42	67	4	.0	-1.1	.0	11.3	113	21.2	107	91	34	0	0	0	0	0	0
MOBILE	81	61	85	53	71	2	1.0	-1.0	.0	9.5	97	17.4	87	92	48	0	0	0	0	0	0
MONTGOMERY	84	56	90	49	70	5	.1	-.9	.0	9.0	93	19.1	96	92	39	1	0	0	0	0	0
AK ANCHORAGE	47	30	52	14	39	1	.0	-.2	.0	1.9	156	2.8	100	90	54	0	0	0	0	0	0
BARROW	2	-14	15	-28	-6	-7	.0	-.1	.0	.1	44	.2	38	79	74	0	0	0	0	0	0
FAIRBANKS	54	26	65	-9	40	6	.0	-.6	.0	6.8	126	15.8	116	94	48	0	0	0	0	0	0
JUNEAU	55	36	64	28	45	5	.0	-.1	.0	13.9	178	30.0	147	93	78	0	0	0	0	0	0
KODIAK	44	37	46	30	40	2	1.7	-.2	.0	1.2	116	2.5	102	66	51	0	0	0	0	0	0
NOME	22	6	27	-4	14	-5	.0	-.2	.0	1.4	124	2.0	83	43	13	0	0	0	0	0	0
AZ PHOENIX	96	68	99	66	82	11	.0	-.1	.0	1.2	116	2.5	102	66	51	0	0	0	0	0	0
PRESCOTT	79	49	83	45	64	14	.0	-.2	.0	1.0	39	2.3	42	54	14	0	0	0	0	0	0
TUCSON	95	64	97	59	79	12	.0	-.1	.0	1.2	120	2.2	88	47	11	0	0	0	0	0	0
YUMA	98	69	101	67	83	11	.0	-.1	.0	.1	34	.4	42	48	13	6	7	0	0	0	0
AR FORT SMITH	84	55	87	45	69	7	.0	-.9	.0	5.0	72	12.4	108	86	33	0	0	0	0	0	0
LITTLE ROCK	81	57	86	51	69	5	.0	-1.0	.0	8.5	103	17.0	114	63	28	0	0	0	0	0	0
CA BAKERSFIELD	81	53	89	47	67	3	.1	.0	.1	1.2	80	3.1	91	59	19	0	0	0	0	0	0
EUREKA	60	50	61	46	55	4	1.1	.6	1.1	3.8	49	16.0	87	91	59	0	0	0	0	0	0
FRESNO	80	53	88	47	67	4	.3	.1	.3	1.2	44	4.3	67	76	20	0	0	0	0	0	0
LOS ANGELES	69	56	73	52	62	2	.0	-.1	.0	1.2	46	5.9	78	89	36	0	0	0	0	0	0
REDDING	77	50	83	47	64	5	.5	-.1	.5	2.7	44	12.4	75	86	32	0	0	0	0	0	0
SACRAMENTO	76	49	85	47	62	3	.1	-.1	.1	.4	11	5.0	49	92	39	0	0	0	0	0	0
SAN DIEGO	67	58	71	57	63	0	.0	-.2	.0	3.7	151	7.1	123	89	35	0	0	0	0	0	0
SAN FRANCISCO	63	51	69	49	57	1	.3	.0	.3	.8	19	8.6	73	90	55	0	0	0	0	0	0
CO DENVER	79	48	82	46	63	14	.0	-.4	.0	2.0	78	3.3	93	77	21	0	0	0	0	0	0
GRAND JUNCTION	81	52	83	46	66	11	.0	-.2	.0	1.8	102	2.6	91	70	18	0	0	0	0	0	0
PUEBLO	80	44	87	40	62	9	.2	.0	.1	2.2	150	2.9	138	80	21	0	0	0	0	0	0
CT BRIDGEPORT	62	41	70	34	52	2	.3	-.6	.2	8.5	128	16.8	130	66	26	0	0	0	0	0	0
HARTFORD	63	36	78	31	50	-1	.0	-.9	.0	8.1	124	17.3	131	56	25	0	0	0	0	0	0
DC WASHINGTON	71	51	83	44	61	3	.0	-.6	.0	10.0	193	18.5	174	57	24	0	0	0	0	0	0
FL APALACHICOLA	79	61	84	53	70	2	.1	-.5	.0	6.7	104	15.6	111	--	--	0	0	0	0	0	0
DAYTONA BEACH	81	64	87	60	73	3	4.9	4.3	3.4	8.5	184	16.7	160	97	62	0	0	0	0	0	0
JACKSONVILLE	81	58	86	50	70	1	.4	-.2	.4	3.7	66	11.1	89	96	50	0	0	0	0	0	0
KEY WEST	85	76	87	72	80	3	.4	-.1	.3	1.0	34	5.6	83	82	64	0	0	0	0	0	0
MIAMI	85	72	87	69	79	3	.2	-.5	.1	2.5	58	11.8	139	88	58	0	0	0	0	0	0
ORLANDO	86	66	89	65	76	4	2.8	2.4	2.3	4.0	88	11.6	117	93	53	0	0	0	0	0	0
TALLAHASSEE	82	67	89	47	70	2	.7	-.1	.7	15.2	166	26.1	134	93	46	0	0	0	0	0	0
TAMPA	87	58	89	67	77	5	.9	.7	.4	1.7	43	5.8	65	94	59	0	0	0	0	0	0
WEST PALM BEACH	85	71	89	69	78	3	5.7	5.0	4.0	9.2	186	18.4	178	93	58	0	0	0	0	0	0
GA ATLANTA	83	57	88	50	70	7	.0	-1.0	.0	8.7	95	17.6	94	80	37	0	0	0	0	0	0
AUGUSTA	83	49	91	41	66	2	.6	-.1	.6	7.5	104	15.7	101	95	40	1	0	0	0	0	0
MACON	84	53	92	47	68	3	.6	-.2	.6	7.7	102	16.0	95	92	41	1	0	0	0	0	0
SAVANNAH	84	56	91	51	70	3	2.0	1.3	2.0	5.9	97	11.4	88	91	36	1	0	0	0	0	0
HI HILO	81	68	83	64	74	1	1.6	-1.9	.6	24.3	94	60.2	131	89	68	0	0	0	0	0	0
HONOLULU	82	69	84	64	76	0	.0	-.3	.0	3.3	96	10.7	117	77	55	0	0	0	0	0	0
KAHULUI	80	68	82	66	74	0	.4	-.0	.1	4.9	115	7.2	64	84	63	0	0	0	0	0	0
LILUOUE	77	69	79	65	73	-1	.2	-.6	.2	4.2	60	14.9	92	80	64	0	0	0	0	0	0
ID BOISE	78	49	89	39	63	13	.2	-.1	.2	.9	38	3.1	64	65	29	0	0	0	0	0	0
LEWISTON	76	52	85	43	64	13	.0	-.3	.0	.6	32	2.3	55	69	30	0	0	0	0	0	0
POCATELLO	80	42	86	35	61	15	.0	-.3	.0	.4	20	2.3	56	84	18	0	0	0	0	0	0
IL CHICAGO	67	41	84	34	54	3	.0	-.8	.0	2.2	41	6.9	82	69	23	0	0	0	0	0	0
MOLINE	71	41	86	32	56	4	.3	-.6	.3	2.4	40	6.1	70	70	22	0	0	0	0	0	0
PEORIA	70	45	83	40	57	4	.0	-.9	.0	3.2	55	6.1	70	62	27	0	0	0	0	0	0
QUINCY	67	45	80	38	56	2	.5	-.4	.5	4.4	74	5.1	58	67	31	0	0	0	0	0	0
ROCKFORD	69	40	85	33	55	5	.0	-.9	.0	2.2	42	6.2	81	62	21	0	0	0	0	0	0
SPRINGFIELD	69	48	82	40	58	3	.8	-.1	.8	8.0	132	10.1	108	63	26	0	0	0	0	0	0
IN EVANSVILLE	75	49	84	41	62	3	.0	-1.0	.0	4.5	55	10.0	68	68	26	0	0	0	0	0	0
FORT WAYNE	67	41	82	33	54	3	.0	-.8	.0	6.5	118	10.0	108	67	26	0	0	0	0	0	0
INDIANAPOLIS	68	45	80	37	57	3	.1	-.8	.1	4.9	75	9.0	79	63	27	0	0	0	0	0	0
SOUTH BEND	66	38	82	33	52	2	.0	-.9	.0	2.4	40	6.3	62	65	23	0	0	0	0	0	0
IA DES MOINES	72	44	89	39	58	6	.2	-.6	.1	1.7	35	4.6	67	65	23	0	0	0	0	0	0
SIoux CITY	75	42	92	37	59	6	.0	-.6	.0	1.0	26	2.7	55	72	23	1	0	0	0	0	0
WATERLOO	71	38	92	32	55	4	.2	-.7	.2	1.8	38	4.0	60	78	22	1	1	0	0	0	0
KS CONCORDIA	79	52	92	47	65	11	.0	-.6	.0	1.0	26	1.8	35	80	37	1	0	0	0	0	0
DODGE CITY	80	51	88	43	66	9	.0	-.5	.0	1.4	47	2.3	54	77	35	0	0	0	0	0	0
GOODLAND	77	47	88	43	62	11	.0	-.3	.0	2.3	116	2.8	99	85	36	0	0	0	0	0	0
TOPEKA	77	50	90	43	64	7	.6	-.2	.6	2.1	45	3.4	50	82	36	1	0	0	0	0	0
WICHITA	79	52	85	47	66	7	.2	-.5	.2	2.3	48	2.3	34	87	34	0	0	0	0	0	0
KY BOWLING GREEN	76	46	83	41	61	3	.0	-1.0	.0	12.0	143	23.8	146	85	29	0	0	0	0	0	0
LEXINGTON	71	45	81	36	58	2	.1	-.8	.1	10.5	142	19.4	144	70	22	0	0	0	0	0	0
LOUISVILLE	74	48	83	40	61	3	.0	-1.0	.0	5.8	73	12.8	91	68	26	0	0	0	0	0	0
LA BATON ROUGE	80	60	82	53	70	0	2.8	1.5	1.6	12.1	136	21.7	112	97	53	0	0	0	0	0	0
LAKE CHARLES	80	62	83	56	71	2	.5	-.4	.3	4.6	81	9.9	72	94	54	0	0	0	0	0	0
NEW ORLEANS	82	59	86	53	71	1	.2	-.9	.2	7.2	86	11.0	57	89	47	0	0	0	0	0	0
SHERVEPORT	84	55	87	44	70	3	.0	-.3	.6	7.2	103	15.9	103	95	43	0	0	0	0	0	0

Based on 1961-90 normals.

Weather Data for the Week Ending April 23, 1994

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 1	PCT. NORMAL	SINCE	Mar 1	TOTAL,	IN.,	SINCE	Jan 1	PCT. NORMAL	SINCE	Jan 1	AVERAGE	MAXIMUM	AVERAGE	MINIMUM	90	AND	ABOVE	32	AND	BELOW	.01	INCH	OR	MORE	.50	INCH	OR	MORE
ME CARIBOU	42	29	48	21	36	4	-4	.5	.1	.1	.3	5.4	125	10.4	121	82	49	0	6	3	0																																	
PORTLAND	54	31	61	25	43	-2	-1	.1	.9	.1	8.9	131	15.6	114	73	30	0	5	1	0																																		
MD BALTIMORE	70	47	82	42	59	4	.7	.7	.7	10.6	184	19.3	161	62	24	0	0	0	0	0																																		
GALISSBURY	70	43	84	35	57	2	.7	.7	.7	10.7	161	19.3	141	91	29	0	0	0	0	0																																		
MA BOSTON	60	42	73	39	51	1	.8	.8	.8	9.4	146	17.6	129	55	28	0	0	1	0	0																																		
CHARHAM	56	42	63	37	49	3	.8	.8	.8	11.4	170	20.7	144	73	38	0	0	0	0	0																																		
MI ALPENA	59	30	70	26	45	2	.5	.5	.5	2.4	63	5.4	80	66	22	0	0	5	0	0																																		
Detroit	64	37	74	34	51	2	.7	.7	.7	4.3	90	8.5	102	63	26	0	0	0	1	0																																		
FLINT	63	31	68	27	46	-2	.6	.6	.6	2.9	66	5.5	78	72	26	0	0	4	2	0																																		
GRAND RAPIDS	63	32	76	27	47	-2	.8	.8	.8	3.0	58	7.4	87	69	25	0	0	5	0	0																																		
HOUGHTON LAKE	58	30	68	23	44	0	.5	.5	.5	3.6	98	6.9	109	69	25	0	0	0	0	0																																		
LANSING	62	29	74	25	46	-1	.7	.7	.7	3.3	75	6.3	89	83	25	0	0	6	0	0																																		
MARQUETTE	56	29	76	24	43	3	.5	.5	.5	2.9	61	5.0	58	65	27	0	0	6	1	0																																		
HUBKRON	57	32	72	27	44	-2	.2	.2	.2	2.6	54	7.9	92	71	29	0	0	5	5	0																																		
SAULT ST. MARIE	49	27	62	21	38	-2	.5	.5	.5	3.2	78	6.3	77	73	38	0	0	7	1	0																																		
MN ALEXANDRIA	63	38	76	32	50	5	.0	.0	.0	1.4	46	2.4	51	78	30	0	0	1	0	0																																		
DULUTH	61	34	75	29	48	7	.5	.5	.5	2.7	76	5.2	93	56	22	0	0	3	0	0																																		
INT'L FALLS	61	30	80	22	46	4	.4	.4	.4	1.3	60	2.2	58	64	27	0	0	5	0	0																																		
MINNEAPOLIS	67	42	84	36	55	6	.6	.6	.6	1.5	40	3.5	63	66	23	0	0	0	0	0																																		
ROCHESTER	66	37	86	31	51	4	.7	.7	.7	1.9	50	3.8	72	72	23	0	0	1	0	0																																		
MS GREENWOOD	85	54	90	44	70	5	0	-1.2	.0	9.8	101	16.7	87	93	32	2	0	0	0	0																																		
JACKSON	83	55	86	45	69	3	0	-1.3	.0	9.4	93	23.9	117	94	37	0	0	0	0	0																																		
MERIDIAN	87	56	90	46	71	6	0	-1.2	.0	11.6	105	26.4	122	91	35	1	0	0	0	0																																		
MO CAPE GIRARDEAU	76	51	82	44	63	4	.7	-1.0	.0	8.3	99	15.7	107	84	31	0	0	0	0	0																																		
COLUMBIA	73	48	83	42	61	5	.2	.7	.2	10.1	173	13.0	143	71	29	0	0	0	1	0																																		
KANSAS CITY	75	50	86	44	62	6	.7	.0	.7	3.2	66	5.3	76	73	33	0	0	0	1	0																																		
SAINT LOUIS	73	52	87	44	63	4	.1	.7	.1	7.5	120	11.1	109	60	25	0	0	0	1	0																																		
SPRINGFIELD	78	53	81	49	66	8	.4	.5	.4	10.6	155	14.7	141	75	30	0	0	0	1	0																																		
MT BILLINGS	75	47	84	42	61	14	.4	.4	.4	1.6	65	2.3	58	69	29	0	0	0	2	0																																		
GLASSGOW	71	42	83	36	57	10	.2	.2	.2	1.5	52	1.5	100	70	22	0	0	0	0	0																																		
GREAT FALLS	68	43	78	40	55	10	.4	.1	.4	1.1	52	2.1	59	76	26	0	0	0	2	0																																		
HAVRE	71	42	82	36	57	11	.3	.3	.3	1.3	94	1.9	79	84	25	0	0	0	3	0																																		
HELENA	71	41	80	38	56	11	.3	.1	.1	1.4	81	3.4	78	94	41	0	0	0	3	0																																		
KALISPELL	67	41	78	35	54	9	.2	.1	.1	1.4	81	3.4	78	94	41	0	0	0	3	0																																		
MILES CITY	78	47	88	44	63	15	.7	.4	.7	1.5	34	1.6	63	72	28	0	0	0	0	0																																		
MISSOULA	72	43	82	38	58	12	.8	.6	.7	1.9	115	2.7	74	81	25	0	0	0	2	1																																		
NE GRAND ISLAND	77	44	93	37	61	8	.6	.6	.6	1.9	52	3.8	78	85	22	2	0	0	0	0																																		
LINCOLN	76	43	94	37	60	6	.7	.7	.7	1.1	27	2.0	37	84	33	1	0	0	0	0																																		
NORFOLK	77	43	93	37	60	8	.6	.6	.6	.9	26	2.5	52	83	23	2	0	0	0	0																																		
NORTH PLATTE	76	44	89	39	60	10	.7	.5	.7	2.6	1.5	44	88	35	0	0	0	0	0	0																																		
OMAHA	76	43	93	32	60	6	.1	.6	.1	1.2	29	2.7	49	**	**	1	1	2	0	0																																		
SCOTTSBLUFF	80	44	83	37	62	14	.9	.5	.8	2.0	90	3.4	106	78	24	0	0	0	2	1																																		
VALENTINE	79	43	89	35	61	11	.7	.5	.7	.3	11	1.1	28	70	25	0	0	0	0	0																																		
NV ELY	74	35	79	30	54	12	.7	.2	.7	2.3	134	4.0	129	80	16	0	1	0	0	0																																		
LAS VEGAS	91	66	97	63	78	13	.0	.1	.0	1.1	21	.7	42	37	10	5	0	0	0	0																																		
RENO	74	46	82	40	60	10	.0	.1	.0	1.0	101	1.7	55	69	17	0	0	0	0	0																																		
WINNEMUCCA	76	41	86	38	58	11	.3	.1	.3	1.3	89	2.5	89	76	19	0	0	0	2	0																																		
NH CONCORD	57	28	66	22	43	-3	.7	.7	.7	7.0	142	11.3	113	83	26	0	5	1	0	0																																		
NJ ATLANTIC CITY	67	40	83	31	54	2	.8	.8	.8	11.3	177	19.0	147	72	24	0	0	2	2	0																																		
NM ALBUQUERQUE	83	55	87	51	69	12	.7	.7	.7	7.3	.9	51	47	13	0	0	0	1	0	0																																		
CLOVIS	82	51	88	46	66	8	.4	.2	.2	1.5	133	1.8	87	65	20	0	0	0	3	0																																		
ROSWELL	85	51	90	45	68	6	.3	.2	.3	1.0	138	1.0	65	54	20	1	0	0	1	0																																		
NY ALBANY	56	33	69	29	45	-3	.1	.6	.1	7.4	143	12.5	126	68	30	0	4	2	0	0																																		
BINGHAMTON	54	33	68	29	43	-3	.7	.7	.7	7.4	142	12.6	127	62	29	0	3	2	0	0																																		
BUFFALO	54	35	67	31	45	-2	.7	.7	.7	5.6	114	9.9	100	79	39	0	1	1	0	0																																		
NEW YORK	66	48	84	44	57	4	.1	.8	.1	8.1	125	15.7	127	56	21	0	0	0	1	0																																		
ROCHESTER	55	34	66	29	45	-3	.7	.6	.7	4.8	113	9.1	108	73	28	0	3	1	0	0																																		
SYRACUSE	55	35	66	30	45	-3	.1	.8	.0	9.3	175	14.6	149	69	33	0	3	2	0	0																																		
NC ASHEVILLE	77	45	82	42	61	4	.0	.9	.0	10.6	123	21.1	124	77	25	0	0	0	0	0																																		
CHARLOTTE	79	51	88	42	65	5	.1	.5	.1	7.1	109	13.2	94	66	28	0	0	0	1	0																																		
GREENSBORO	75	46	83	34	60	1	.7	.7	.7	6.0	102	12.1	98	69	26	0	0	0	0	0																																		
HATTERAS	73	58	78	47	65	5	.7	.8	.7	8.3	119	18.7	114	79	44	0	0	0	0	0																																		
NEW BERN	78	52	87	46	65	2	.7	.7	.7	6.3	100	14.1	95	95	36	0	0	0	0	0																																		
RALPHIGH	76	48	86	38	62	2	.6	.6	.6	6.8	118	13.2	103	78	33	0	0	0	1	0																																		
WILMINGTON	79	53	89	45	66	4	.2	.5	.2	9.1	134	19.4	122	93	40	0	0	0	1	0																																		
ND BISMARCK	71	39	84	30	55	6	.1	.3	.1	.9	46	1.9	67	82	23	0	1	1	0	0																																		
FARGO	68	35	86	25	51	6	.0	.5	.0	1.2	48	2.5	69	69	23	0	3	0	0	0																																		
GRAND FORKS	65	35	82	28	50	6	.7	.3	.7	.5	24	1.7	56	75	25	0	0	3	0	0																																		
WILLISTON	69	40	83	29	55	9	.3	.0	.3	1.2	74	3.0	118	74	20	0	0	1	2	0																																		
OH AKRON-CANTON	60	36	68	30	48	-2	.7	.7	.7	8.7	152	13.8	137	63	27	0	0	0	0	0																																		
CINCINNATI	68	45	80	37	57	2	.7	.8	.7	5.2	73	10.1	82	70	25	0	0	0	1	0																																		
CLEVELAND	60	37	70	27	48	-1	.7	.7	.7	4.5	85	7.9	83	66	27	0	0	0	2	0																																		
COLUMBUS	67	38	78	30	53	2	.8	.8	.8	4.9	83	10.2	102	65	25	0	0	0	1	0																																		
DAYTON	66	41	81	33	54	1	.8	.8	.8	6.0	99	11.1	107	58	26	0	0	0	1	0																																		

Based on 1961-90 normals.

Weather Data for the Week Ending April 23, 1994

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 1	PCT. NORMAL SINCE Mar 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE	MAXIMUM	MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	
																			.50 INCH OR MORE	.01 INCH OR MORE
TOLEDO	64	37	80	30	50	1	F	.7	F	5.4	109	10.1	120	71	24	0	0	1	1	
YOUNGSTOWN	59	34	66	27	46	-3	F	.7	F	9.2	168	13.4	139	64	26	0	0	4	0	
OK OKLAHOMA CITY	81	53	83	46	67	5	F	.7	F	4.3	92	7.1	96	89	38	0	0	0	0	
TULSA	81	55	85	51	68	5	F	.9	F	6.9	112	9.8	101	99	51	0	0	0	0	
OR ASTORIA	58	45	60	39	52	3	F	.6	F	10.5	98	28.7	101	99	51	0	0	0	0	
BURNS	71	35	79	25	53	9	F	.1	F	5.5	36	1.3	40	73	23	0	0	1	0	
MEDFORD	72	48	83	42	60	8	F	.1	F	1.0	62	4.0	54	84	36	0	0	0	0	
PENDLETON	73	50	82	40	62	10	F	.3	F	3.6	48	4.2	91	72	29	0	0	0	0	
PORTLAND	69	47	76	42	58	7	F	.4	F	1.0	66	12.1	82	93	38	0	0	0	0	
SALEM	69	44	74	38	57	7	F	.4	F	4.5	73	13.0	78	88	36	0	0	0	0	
PA ALLENTOWN	66	40	81	32	53	2	F	.8	F	8.6	146	17.5	145	58	23	0	0	1	1	
ERIE	56	35	71	30	46	-2	F	.8	F	6.3	114	10.2	102	79	30	0	0	0	0	
HARRISBURG	68	45	82	35	56	3	F	.8	F	7.9	139	16.7	148	59	22	0	0	0	0	
PHILADELPHIA	69	49	83	43	59	6	F	.9	F	9.2	144	16.7	130	54	24	0	0	2	2	
PITTSBURGH	63	39	73	31	51	0	F	.7	F	8.1	140	14.2	132	58	26	0	0	0	0	
SCRANTON	61	38	77	31	49	0	F	.7	F	7.8	163	12.0	133	61	21	0	0	3	1	
RI PROVIDENCE	61	40	69	37	50	1	F	.7	F	9.1	125	16.7	114	60	27	0	0	0	0	
SC CHARLESTON	82	55	90	48	68	2	F	.1	F	4.7	73	13.4	102	89	35	1	0	0	0	
COLUMBIA	85	51	93	42	68	2	F	.7	F	4.8	65	13.0	82	84	27	2	0	0	0	
FLORENCE	81	52	89	45	67	2	F	.6	F	5.8	93	12.8	98	90	32	0	0	0	0	
GREENVILLE	78	47	87	42	63	2	F	.8	F	6.6	79	14.3	85	72	29	0	0	0	0	
SD ABERDEEN	71	42	87	35	57	10	F	.3	F	1.1	45	2.4	65	80	26	0	0	0	1	
HURON	72	41	86	31	56	8	F	.4	F	1.1	33	2.7	63	83	34	0	0	1	0	
RAPID CITY	77	44	84	36	60	14	F	.5	F	.8	32	1.9	58	72	29	0	0	0	0	
SIOUX FALLS	72	41	87	34	57	8	F	.6	F	1.6	47	3.2	70	77	23	0	0	0	0	
TN CHATTANOOGA	84	49	88	44	67	6	F	.0	F	15.7	166	29.4	154	97	25	0	0	0	0	
KNOXVILLE	78	49	83	43	64	5	F	.8	F	19.0	238	34.9	215	77	32	0	0	0	0	
MEMPHIS	83	58	89	52	71	6	F	.0	F	9.5	98	19.3	109	69	27	0	0	0	0	
NASHVILLE	78	51	85	45	64	4	F	.0	F	12.5	153	23.1	148	73	25	0	0	0	0	
TX ABILENE	82	56	84	50	69	2	F	.2	F	2.2	79	4.0	82	90	36	0	0	1	1	
AMARILLO	83	50	89	48	66	8	F	.2	F	1.7	102	2.8	101	68	26	0	0	0	0	
AUSTIN	83	60	87	51	71	1	F	.6	F	2.0	56	5.6	74	89	45	0	0	1	0	
BEAUMONT	81	62	85	55	72	2	F	.7	F	7.0	120	15.2	109	97	51	0	0	3	0	
BROWNSVILLE	82	62	88	60	72	-4	F	.4	F	2.5	159	5.0	118	97	49	0	0	1	0	
CORPUS CHRISTI	84	63	83	58	71	-2	F	.5	F	5.1	242	7.2	124	95	52	0	0	2	1	
DEL RIO	84	60	87	50	72	0	F	.6	F	3.0	108	5.7	109	87	42	0	0	1	0	
EL PASO	87	56	95	45	72	7	F	.6	F	1.0	215	1.3	98	48	20	2	0	2	1	
FORT WORTH	83	59	85	49	71	6	F	.7	F	2.8	49	6.2	63	90	46	0	0	2	0	
GALVESTON	76	67	79	60	72	1	F	.1	F	2.5	61	5.0	53	97	70	0	0	0	0	
HOUSTON	82	62	84	51	72	2	F	.8	F	3.5	62	8.4	64	97	52	0	0	2	0	
LUBBOCK	86	54	89	46	70	7	F	1.2	F	1.9	123	2.4	94	90	28	0	0	2	2	
MIDLAND	84	52	88	45	68	2	F	.2	F	1	1	1.1	57	88	24	0	0	1	0	
SAN ANGELO	85	52	88	41	68	0	F	.4	F	.1	3	2.1	53	91	32	0	0	1	0	
SAN ANTONIO	83	57	89	45	70	0	F	.6	F	5.5	167	7.7	112	87	44	0	0	1	0	
VICTORIA	80	62	84	54	71	0	F	.9	F	6.0	145	8.3	80	95	49	0	0	3	0	
WACO	81	56	83	40	69	0	F	.8	F	3.8	83	8.5	102	98	50	0	0	2	1	
WICHITA FALLS	84	53	86	46	69	4	F	.7	F	1.3	28	3.2	40	89	34	0	0	0	0	
UT CEDAR CITY	77	46	81	41	61	12	F	.3	F	1.9	84	3.2	85	49	15	0	0	0	0	
SALT LAKE CITY	81	53	85	46	67	16	F	.0	F	3.1	88	5.3	89	65	21	0	0	0	0	
VT BURLINGTON	54	32	72	24	43	-3	F	.1	F	5.7	133	9.2	118	75	28	0	0	3	3	
VA NORFOLK	72	50	87	42	61	2	F	.7	F	10.9	181	18.6	141	75	30	0	0	1	0	
RICHMOND	75	47	89	37	61	2	F	.6	F	9.0	155	16.5	135	74	21	0	0	0	0	
ROANOKE	73	46	85	33	60	3	F	.6	F	6.9	117	16.8	145	72	20	0	0	1	0	
WA QUILLAYUTE	60	43	62	41	51	5	F	.4	F	16.5	94	44.4	100	99	39	0	0	0	0	
SEATTLE-TACOMA	66	46	71	41	56	6	F	.1	F	5.3	98	12.3	83	89	29	0	0	2	0	
SPOKANE	69	46	78	38	57	10	F	.3	F	1.0	42	3.3	56	80	26	0	0	2	0	
YAKIMA	75	46	84	34	61	10	F	.1	F	.9	85	2.3	76	84	22	0	0	1	0	
WV BECKLEY	68	43	79	32	55	3	F	.1	F	9.6	160	19.4	164	59	22	0	0	1	2	
CHARLESTON	73	47	88	35	60	4	F	.4	F	11.1	180	23.0	191	71	19	0	0	3	0	
HUNTINGTON	73	48	85	40	61	6	F	.2	F	11.5	184	21.4	173	61	24	0	0	0	0	
PARKERSBURG	68	42	79	31	55	0	F	.8	F	9.7	148	21.0	167	62	22	0	0	1	0	
WI GREEN BAY	65	35	83	27	50	4	F	.6	F	3.1	80	5.7	94	73	26	0	0	2	0	
LACROSSE	68	41	87	33	55	5	F	.1	F	.1	.1	.1	.1	73	26	0	0	0	0	
MADISON	68	36	84	28	52	4	F	.7	F	1.7	38	5.9	87	62	21	0	0	2	1	
MILWAUKEE	65	40	84	33	53	7	F	.8	F	2.1	40	7.8	93	52	21	0	0	1	0	
WAUSAU	63	34	80	27	49	3	F	.7	F	1.5	38	3.0	51	60	18	0	0	3	0	
WY CASPER	80	45	81	38	63	18	F	.2	F	.9	45	2.4	74	76	21	0	0	0	0	
CHEYENNE	73	43	77	40	58	14	F	.3	F	1.2	60	2.7	99	75	23	0	0	0	0	
LANDER	78	46	81	43	62	17	F	.5	F	2.0	75	3.3	89	54	16	0	0	0	0	
SHERIDAN	77	44	83	37	60	15	F	.5	F	2.0	92	5.0	138	70	25	0	0	1	1	

Based on 1961-90 normals.

# National Agricultural Summary

April 18 - 24, 1994

Lack of moisture stressed small grains in the lower Great Plains and Pacific Northwest. Drought conditions prevented some row crop planting in the Edwards Plateau of Texas. Washington and Oregon growers reported short soil moisture of 45 percent (%) and 51%, respectively. Field conditions in the Tennessee and Ohio Valleys improved steadily as the first full week of fair weather dried fields and allowed fieldwork to resume. Fieldwork in the Ohio Valley was 1 week behind schedule, but growers were beginning to catch up as fields dried. Where dry fields permitted, the Nation's corn planting surged for the week, ending 6 percentage points ahead of normal. Despite the favorable weather, Missouri's topsoil moisture was reported at 37% surplus, while Illinois and Ohio reported soil moisture of 44% and 29% surplus, respectively. Warm weather in the Great Lakes region allowed some planting of row crops to begin, but most soil temperatures remained too cool for corn. Planting progress for row crops was ahead of schedule.

**SMALL GRAINS:** The winter wheat crop remained in the mostly good to fair condition for the Nation. One-third of the winter wheat in Texas was in the poor category, reflecting the dry conditions. Producers in the Blacklands and Edwards Plateau cut some small grain fields for hay. Some wheat fields were infested with armyworms in the Blacklands. Winterkill in winter wheat was reported at 13% for South Dakota. Top soil moisture for Kansas was 22% short, with wheat jointing reported at 75%, compared with 65% for the 5-year average. Disease and insect problems remained light in Kansas. Dryland wheat condition in Washington was 17% poor, as drought-like conditions continued. Approximately one-quarter of Minnesota and North Dakota's winter wheat remained dormant, down from one-half last week. Wheat headed in the 19 major producing States was 10%, 3 points behind the average.

**Spring wheat seeding** was 23% complete, 7 points below the average. Idaho and Montana were ahead of schedule, while North Dakota's planting progress was 12 points behind the average.

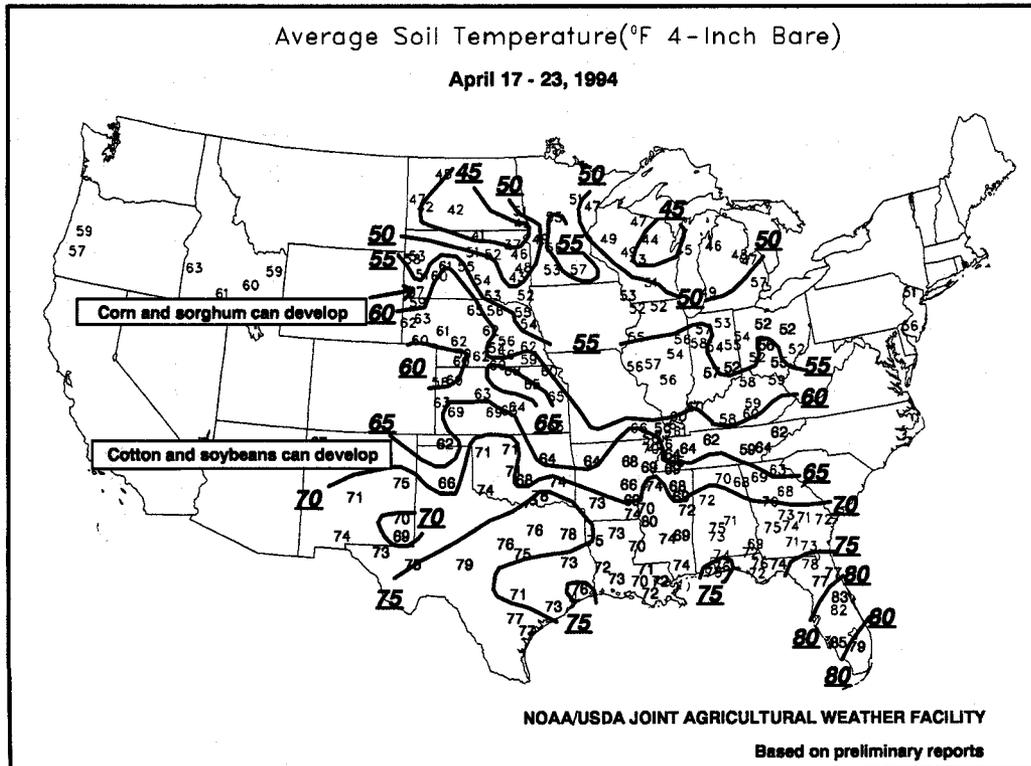
**FIELD CROPS:** Corn planted was 16% complete for the Nation, ahead of the average by 6 points. Iowa surged ahead of the average with 22% of the corn crop reported as planted, 18 points ahead of schedule. Corn planting in Illinois was slowed by wet field conditions and fell behind schedule by 3%. Despite surplus soil

moisture, corn planted was on schedule in Missouri. Corn planted in Kansas was 5 points ahead the average.

**Cotton planting** was 25% complete, 5 points ahead of the average for the 14 major producing States. Every State is equal to or ahead of the average, except for Alabama and New Mexico. Cool weather slowed cotton growth in central Texas. Planting on the Texas High Plains began, while cotton in the Rio Grande Valley began to square. Californian cotton growers have planted three-quarters of the 1994 crop. Mississippi cotton planted increased to 30%, 14 points ahead of normal.

**Sorghum planting** was 23% complete, 3 points ahead of normal. Planting was ahead of schedule in Mississippi by 17 points. Louisiana increased sorghum planted by 25% to match the average. Some Texas producers in the Edwards Plateau delayed planting sorghum due to lack of soil moisture. Mississippi sorghum is 31% emerged, 15 points ahead of the average.

**Rice seeding** was 43% complete, 12 points ahead of schedule. Some flushing of rice fields was reported in Arkansas, where rice planted was 42% complete, 18 points ahead of the average. Louisiana, Mississippi, and Texas have planted over one-half of their rice crop, with 46% of the Louisiana rice crop emerged.



### Crop Progress for the Week Ending April 24, 1994

#### COTTON PLANTED

State	Week Ending			1989-1993 Avg.
	Apr 24, 1994	Apr 17, 1994	Apr 25, 1993	
	Percent			
AL	30	5	25	34
AZ	77	54	62	69
AR	11	0	0	4
CA	75	45	70	75
GA	20	6	14	9
LA	25	1	7	17
MS	30	4	1	16
MO	3	0	0	3
NM	35	20	47	57
NC	13	2	3	9
OK	1	0	1	1
SC	16	4	7	8
TN	3	0	1	3
TX	20	18	17	15
14 Sts	25	14	17	20

These 14 States produced 99% of the 1993 cotton crop.

#### SPRING WHEAT PLANTED

State	Week Ending			1989-1993 Avg.
	Apr 24, 1994	Apr 17, 1994	Apr 25, 1993	
	Percent			
ID	77	69	30	63
MN	26	6	18	32
MT	31	13	8	28
ND	9	1	10	21
SD	58	28	22	61
5 Sts	23	9	13	30

These 5 States produced 97% of the 1993 spring wheat crop.

#### CORN PLANTED

State	Week Ending			1989-1993 Avg.
	Apr 24, 1994	Apr 17, 1994	Apr 25, 1993	
	Percent			
CO	11	2	6	6
GA	96	92	88	91
IL	7	0	0	10
IN	8	0	0	6
IA	22	3	0	4
KS	30	5	10	25
KY	15	2	11	17
MI	0	0	0	0
MN	20	0	0	3
MO	22	7	3	22
NE	14	1	1	7
NC	69	48	37	50
OH	10	1	1	6
PA	0	0	2	2
SD	2	0	0	0
TX	67	61	61	73
WI	1	0	0	0
17 Sts	16	5	4	10

These 17 States produced 91% of the 1993 corn crop.

#### RICE PLANTED

State	Week Ending			1989-1993 Avg.
	Apr 24, 1994	Apr 17, 1994	Apr 25, 1993	
	Percent			
AR	42	9	5	24
CA	2	0	1	2
LA	57	51	49	57
MS	60	40	7	28
TX	67	57	44	63
5 Sts	43	24	17	31

These 5 States produced 96% of the 1993 rice crop.

### Crop Condition

for the Week Ending April 24, 1994

#### WINTER WHEAT

State	VP	P	F	G	EX	Percent				
						VP	P	F	G	EX
AR	0	0	36	60	4					
CA	0	0	10	65	25					
CO	0	2	21	58	19					
GA	0	2	15	72	11					
ID	0	2	20	62	16					
IL	0	14	38	46	2					
IN	0	5	35	57	3					
KS	0	1	38	59	2					
MI	3	7	25	50	15					
MO	3	11	56	28	2					
MT	1	6	31	49	13					
NE	0	5	20	61	14					
NC	0	1	15	78	6					
OH	1	4	24	55	16					
OK	0	6	55	38	1					
OR	0	6	29	51	14					
SD	3	3	17	67	10					
TX	2	30	50	16	2					
WA	0	15	30	46	9					
19 Sts	1	8	37	48	6					
Prev Wk	1	8	36	49	6					
Prev Yr	0	2	19	62	17					

VP - Very Poor P - Poor F - Fair  
G - Good EX - Excellent

#### WINTER WHEAT HEADED

State	Week Ending			1989-1993 Avg.
	Apr 24, 1994	Apr 17, 1994	Apr 25, 1993	
	Percent			
AR	33	5	11	33
CA	95	70	95	88
CO	0	0	0	0
GA	96	86	49	78
ID	0	0	0	0
IL	0	0	0	1
IN	0	0	0	0
KS	0	0	0	4
MI	0	0	0	0
MO	0	0	0	0
MT	0	0	0	0
NE	0	0	0	0
NC	41	18	13	37
OH	0	0	0	0
OK	20	5	3	32
OR	0	0	0	0
SD	0	0	0	0
TX	30	21	22	31
WA	0	0	0	0
19 Sts	10	5	5	13

These 19 States produced 92% of the 1993 winter wheat crop.

#### GRAIN SORGHUM PLANTED

State	Week Ending			1989-1993 Avg.
	Apr 24, 1994	Apr 17, 1994	Apr 25, 1993	
	Percent			
AR	29	14	14	24
CO	0	0	0	0
IL	0	0	0	0
KS	0	0	0	0
LA	34	9	6	34
MS	47	38	18	30
MO	3	0	0	3
NE	0	0	0	0
NM	0	0	1	4
OK	3	1	2	4
SD	0	0	0	0
TX	65	62	53	56
12 Sts	23	21	18	20

These 12 States produced 98% of the 1993 grain sorghum crop.

## State Summaries of Weather and Agriculture

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

**ALABAMA:** Rainfall none to 0.70 in. north; none to 0.25 in. central; 0.53 to 4.26 in. south. Temperatures 1 to 6° above normal statewide. Lows 39 to 53° north; 44 to 55° central; 45 to 59° south. Highs 84 to 89° north; 85 to 91° central; 85 to 88° south.

Days suitable for fieldwork 5.0. Soil moisture 4% short, 75% adequate, 21% surplus. Percent acreage prepared 77%, 70% 1993, 73% avg. Corn planted 68%, 59% 1993, 72% avg. Sorghum planted 12%, 7% 1993, 19% avg. Peanuts planted 15%, 17% 1993, 21% avg. Wheat headed 52%, 34% 1993, 62% avg.; turning color 4%, 4% 1993, 14% avg.; 21% fair, 74% good, 5% excellent. Pasture 25% fair, 69% good, 6% excellent. Livestock 27% fair, 73% good. Seasonal activities: Planting corn, cotton, peanuts, sorghum, vegetables.

**ARIZONA:** Temperatures above normal; 8 to 14° above. Extremes 35°; 93° higher elevations; 49°; 105° deserts. Precipitation higher elevations; rainfall none to 0.42 in.

Cooperative weather, cotton planting increases; to date 77%, 62% 1993, 69% avg. Condition good. Small grain jointing 100%, 100% 1993, 100% avg.; heading 95%, 94% 1993, 94% avg.; turning color 47%, 45% 1993, 39% avg. Condition remains mostly good. Alfalfa condition excellent. Harvest progress remains moderate. Weed, insect, disease infestations light to moderate. Grapefruit, lemons, valencia oranges, peaches available central, western areas. Winter vegetable harvest slowing. Available from western, central areas: iceberg lettuce, potatoes. Central crops available included beets, broccoli, cabbage, carrots, cauliflower, green onions, kale, kohlrabi, leeks, leaf, romaine lettuce, mixed greens, rutabagas, swiss chard, spinach, turnips. Western crops available: Asparagus, rappini, salad soyov. Tomatoes available eastern areas.

**ARKANSAS:** Dry week, temperatures a few degrees above normal. Extreme 40°; 91°. Precipitation none to 0.82 in.

Days suitable for fieldwork 6. Soil moisture supplies 27% short, 69% adequate, 4% surplus. Crop development generally on schedule. Some flushing of rice fields reported. Corn planted 84%, 34% 1993, 65% avg. Peaches, apples, strawberries, tomatoes mostly good. Fertilization, weed control of pastures ongoing. Pasture 1% poor, 40% fair, 57% good, 2% excellent. Alfalfa 40% fair, 60% good. Other hay 45% fair, 55% good. Livestock fair to mostly good. Vaccination, deworming continuing for cattle.

**CALIFORNIA:** Weather warm dry last week over entire State. Temperatures 2 to 5° above normal coast, 9 to 13° above inland.

Good progress field activities until late rain slowed fieldwork most areas. Small grains matured rapidly, most fields headed out. Rice planting underway, ground preparation neared completion. Early seeded fields treated water weevils. Cotton planting active all growing areas. Corn planted grain, silage; emerged fields irrigated, sprayed weeds. Garbanzo beans, new crop sugarbeets irrigated, weeded. Harvest over-wintered sugarbeets ongoing. Alfalfa, barley, oats, forage mixes, sudangrass cut hay, greenchopped. Alfalfa treated weevils some areas. Orchard activities: fungicide treatment, weed control, irrigation. Stone fruit growers thinning heavy fruit set. Grape growers discing weeds, mildew spraying, suckering, bunch thinning. Walnut codling moth treatment active. Navel orange harvest 90% picked; quality deteriorating. Valencia orange picking desert area. Lemon harvest active south coast area. New crop citrus bloomed. Strawberry harvest active San Joaquin Valley, central coast, southern California areas. Asparagus harvest San Joaquin Valley good supply Salinas, Stockton Delta. Broccoli harvested central coast. Cabbage harvested Fresno County. Carrots packed Riverside County. Cauliflower movement Watsonville, Santa Maria light. Celery harvested south coast. Head lettuce fields Tulare County disced under due poor prices, while harvest complete Riverside County. Leaf, Romaine lettuce San Joaquin Valley light movement. Melons planted Sutter County, desert valley melons good growth. Peppers planted throughout central valley. Spring potatoes harvested Riverside County. Spinach

harvested Stanislaus County. Squash harvested central, desert valleys. Fresh market tomatoes planted San Joaquin Valley, showed good growth desert areas. Processing tomato fields irrigated, thinned, weeded Fresno County. Vegetable hot caps removed. Other crops being harvested: Radishes, turnips, taro root, oriental vegetables. Livestock movement summer pastures increased. Range, pasture conditions good despite dry conditions. Feed was plentiful, supplements fed drier areas. Recent precipitation upper rangelands kept grasses growing. Sheep grazing dry land wheat, barley. Both cattle, sheep remain in good condition.

**COLORADO:** High pressure covered the State for most of the week. A series of upper level disturbances moved across the State throughout the week triggering scattered thunderstorms each day. Thunderstorms were more numerous in the southern mountains, Rio Grande Basin on the 20th, 21st where up to 0.50 in. of rain was reported. The 22nd was an active weather day in the northern portions of the Platte River Basin where between 1.00 to 2.00 in. of rain fell. Temperatures remained 8 to 15° above normal statewide.

Days suitable for fieldwork 5.7. Soil moisture 3% very short, 35% short, 58% adequate, 4% surplus. Spring barley 56% seeded, 55% 1993, 65% avg.; 23% emerged, 26% 1993, 31% avg. Oats 56% seeded, 45% 1993, 58% avg.; 33% emerged, 15% 1993, 29% avg. Dry onions 92% planted, 70% 1993, 75% avg.; 2% poor, 5% fair, 61% good, 32% excellent. Sugarbeets 100% planted, 80% 1993, 81% avg. Spring wheat 32% planted, 18% 1993, 36% avg.; 16% emerged, 5% 1993, 9% avg. Corn 11% planted, 6% 1993, 6% avg. Summer potatoes 83% planted, 28% 1993, 37% avg. Winter wheat 3% pastured, 4% 1993, 6% avg.; 22% jointed, 12% 1993, 21% avg. Winter wheat 2% poor, 21% fair, 58% good, 19% excellent. Cows calved 85%, 85% 1993, 84% avg. Ewes lambed 90%, 85% 1993, 87% avg. Calving, lambing losses reported less than average. Livestock good to excellent. Pasture, range feed condition mostly fair.

**FLORIDA:** Temperatures 2 to 5° above normal. Highs; mid 80s to low 90s. Lows; upper 40s to upper 60s. Scattered showers, thunderstorms developed daily over Peninsula, northern areas. Rainfall under 0.50 in. to locally more than 5.00 in. Heaviest rain report was 8.04 in. near Ft. Lauderdale.

Soil moisture adequate to surplus Panhandle, north, central Peninsula mostly short with scattered adequate areas, southern Peninsula adequate. Peanut planting active. Cotton planting starting. Sugarcane making good progress. Tree condition greatly improved for the end of the fruit set period. Remaining fruit in good condition. Valencia harvest near peak. Grapefruit movement active lower east coast for both fresh, processing. Temple, Honey tangerine harvest almost complete. Caretakers cutting cover crops, hedging, topping, post bloom sprays almost over. Some locations east coast, Palmetto-Ruskin, received up to 4.00 in. rain at midweek. Some vegetable crop damage reported south from wind, storm. Midweek rains delayed some tomato harvesting south. Sweet corn harvest started at Zellwood. Watermelon harvest increasing. Extreme southern area season about complete. Leading vegetable shipments: Tomatoes, potatoes, sweet corn, cucumbers, peppers. Also available: Snap beans, blueberries, cabbage, carrots, celery, chinese cabbage, eggplant, escarole, iceberg lettuce, leaf lettuce, okra, parsley, romaine, specialty lettuces, radishes, squash, cherry tomatoes, watermelons. Pasture feed 40% fair, 60% good. Cattle herds fair to good.

**GEORGIA:** Temperatures 1 to 4° above normal. Maxima middle to upper 80s. Lows middle 30s northeast mountains, upper 40s central, lower 50s south. Generally dry northwest one to two rain days elsewhere. Rain totals mostly under 0.50 in. few local spots extreme south recorded 1.00 to 2.00 in.

Days suitable for fieldwork 5.6. Soil moisture 3% very short, 25% short, 68% adequate, 4% surplus. Corn 16% fair, 79% good, 5% excellent. Cotton 26% fair, 73% good, 1% excellent; dry soils delaying planting southeast. Sorghum 17% fair, 82% good, 1% excellent; 26% planted, 10% 1993, 12% avg. Peanuts 29% fair, 70%

good, 1% excellent; 18% planted, 16% 1993, 14% avg.; dry soils delaying planting southeast. Soybeans 1% planted, 0% 1993, 0% avg. Tobacco 17% fair, 78% good, 5% excellent; 97% transplanted, 92% 1993, 98% avg.; spraying for insect control, few cases of disease. Wheat 99% boot, 88% 1993, 96% avg.; few scattered insect problems. Other small grains 3% poor, 16% fair, 74% good, 7% excellent. Onions 17% fair, 70% good, 13% excellent; 9% harvested, 0% 1993, 20% avg. Watermelons 48% fair, 52% good; 94% planted, 92% 1993, 92% avg. Other vegetables 22% fair, 74% good, 4% excellent. Apples 98% good, 2% excellent; 92% blooming, 78% 1993, 93% avg. Peaches 8% fair, 82% good, 10% excellent; 100% blooming, 100% 1993, 100% avg.; 1% harvested, NA 1993, NA avg. Pastures good, fertilizing, weed control active. Cattle, hogs good.

**HAWAII:** No weather data available.

**IDAHO:** Temperatures as much as 18° above normal. High of 100° in Hagerman. Low of 30° in Aberdeen. Precipitation 0.01 to 0.15 in. north, none to 0.16 in. southwest, none to 0.23 in. south-central, none east.

Days suitable for fieldwork 5. Soil moisture 7% very short, 31% short, 62% adequate. Potatoes planted 22%, 5% 1993, 17% avg. Spring barley planted 74%, 28% 1993, 59% avg. Spring barley emerged 36%, 0% 1993, 28% avg. Oats planted 47%, 10% 1993, 37% avg. Oats emerged 25%, 0% 1993, 17% avg. Sugarbeets planted 97%, 40% 1993, 79% avg. Sugarbeets emerged 56%, 0% 1993, 26% avg. Onions emerged 90%, 0% 1993, 24% avg. Dry edible peas planted 53%, 4% 1993, 40% avg. Dry edible peas emerged 18%, 0% 1993, 7% avg. Corn planted 4%, 1% 1993, 7% avg. Lentils planted 49%, 1% 1993, 36% avg. Lentils emerged 14%, 0% 1993, 13% avg. Irrigation water supplies 13% poor, 23% fair, 61% good, 3% excellent. Hay, roughage supplies 2% poor, 90% fair, 8% good. Activities: Irrigating, planting potatoes, small grains, branding, fencing, moving cattle. Livestock reported in good condition with calving 95% complete, lambing 97% complete. Fruit trees in full bloom.

**ILLINOIS:** Limited precipitation, seasonably mild temperatures prevailed. Temperatures 3 to 6° above normal. Highs mid 60s to 70s; average low 40s north to 50s south. Limited precipitation of 0.25 in. or less north, a band of 0.25 to 0.75 in. central, 0.10 or less far north, south.

Days suitable for fieldwork 3.5. Soil moisture 3% short, 53% adequate, 44% surplus. Oats planted 94%, 9% 1993, 68% avg. Pasture 94% normal. Alfalfa 1% poor, 29% fair, 68% good, 2% excellent. Field conditions improved significantly with many growers able to enter fields after being sidelined for a few weeks. Farm activities consisted of corn, oat planting, spreading fertilizers, pesticides. These activities were limited in the southern half of the State to the sandy, drier soils as heavy rain from 2 weeks ago continues to delay fieldwork in most areas.

**INDIANA:** Warmer, drier than normal weather improved drying potential across State. Temperatures 2 to 8° above normal for the week. Highs were from the upper 60s to mid 70s while average lows were mostly in the 40s. Dry weather occurred across large parts of the north, east-central areas. Rainfall less than 0.20 in. across the State, which was mostly 0.75 to 0.90 in. below normal. Daily average 4-inch soil temperatures under bare ground averaged in the mid 60s to 70° across State.

Livestock doing well. Spring tillage began again mid-week. Pastures conditions continue to improve. Main activities: Tillage in many fields, planting corn, seeding oats, applying fertilizer, herbicides. Pastures 88% of normal, 86% last week. Topsoil 88% adequate, 12% surplus. Subsoil moisture 72% adequate, 28% surplus. Oats seeded 78%, 20% 93, 56% avg. Spring tillage 64%, 42% 93, 69% avg.

**IOWA:** Temperatures 6 to 9° above normal. Extremes 28°; 92°. Precipitation none portions of northwest up to 1.95 in. south central; State average 0.38 in. (normal 0.77 in.).

Days suitable for fieldwork 5.6 Topsoil 16% short, 81% adequate, 3% surplus. Subsoil 92% adequate, 8% surplus. Soybeans planted 2%, 0% 1993, 0% avg. Oats emerged 60%, 0% 1993, 25% avg. Fertilizer application 88%, 23% 1993, 62% avg. Primary seedbed

preparation 85%, 23% 1993, 62% avg. Hay, roughage availability 32% short, 68% adequate. Winter wheat 38% fair, 57% good, 5% excellent. Pasture 1% very poor, 9% poor, 53% fair, 33% good, 4% excellent. Livestock are reported to be in good condition. Conditions remained good for calving, farrowing. The cool nights have slowed pasture growth.

**KANSAS:** Temperatures across the State 6 to 12° above normal. Precipitation was mostly light. The eastern districts received 0.38 to 1.04 in. All other districts less than 0.25 in.

Days suitable for fieldwork 4.5. Topsoil moisture 22% short to very short, 72% adequate, 6% surplus. Subsurface moisture 7% short to very short, 87% adequate, 7% surplus. Farmers taking advantage of the fair weather to prepare seedbeds, plant corn. Corn planted 30%, 10% 1993, 25% avg. With favorable weather, planting will progress rapidly. Wheat jointing 75%, 30% 1993, 65% avg. Disease, insect infestations remain light, however, moderate infestations of Russian wheat aphids reported in the southwest. Light wheat streak mosaic is reported in central, western areas. Oats planted 99%, 60% 1993, 90% avg. Pasture, ranges mostly fair to good. Cattle receiving 40% roughage requirements from pastures. Burning of pastures continues.

**KENTUCKY:** Dry, warm, temperatures above normal. Highs 4 to 8° above normal, lower 70s to mid 80s. Low temperatures normal to 7° above normal, lower 40s to lower 50s. Precipitation below normal, amounts none to 0.20 in. Heaviest rainfall in far east.

Days suitable for fieldwork 4.7. Soil moisture 81% adequate, 19% surplus. Field preparation, planting active as soil conditions permitted. Farmers nearly week behind schedule, beginning to catch up. Corn planting very active western counties. Tobacco plants in beds 80% emerged. Plant condition fair to mostly good. Wheat height 14 in., most advanced wheat avg. 18 in. Wheat 3% poor, 18% fair, 72% good, 7% excellent. Pastures good to excellent, except little slower developing northern counties.

**LOUISIANA:** Temperatures 0.8 to 3.5° above normal. Extremes 41°; 88°. Rainfall none north central, northeast to 1.12 in. east central.

Days suitable for fieldwork 3.8. Soil moisture supplies 2% short, 60% adequate, 38% surplus. Corn 49% fair, 51% good; 96% planted, 83% 1993, 92% avg.; 93% emerged, 66% 1993, 80% avg. Planting winded down. Cotton 3% emerged, 1% 1993, 6% avg. Planting picked up momentum with warm weather. Hay 6% first cutting, 2% 1993, 4% avg. Cuttings were active in localized areas. Rice 46% emerged, 34% 1993, 43% avg. Planting made good progress. The crop was looking above average at this stage. Wheat 8% poor, 41% fair, 51% good; 90% headed, 71% 1993, 86% avg.; 8% turning color, 9% 1993, 12% avg. Spraying for armyworms done in some fields. Sorghum 22% emerged, 0% 1993, 22% avg. Spring plowing 85% plowed, 64% 1993, 73% avg. Rain delays continued to hamper progress. Sweet potatoes 4% planted, 0% 1993, 4% avg. Planting was in the initial stages. Sugarcane 42% fair, 58% good. Fertilization active. Livestock 4% poor, 57% fair, 39% good. Pasture 2% poor, 4% fair, 93% good, 1% excellent. Vegetables 36% fair, 64% good.

**MARYLAND & DELAWARE:** MARYLAND: Precipitation 0.27 in., normal 0.79 in. Temperature 60.3°, normal 54.2°. Extremes 28°; 87°.

Days suitable for fieldwork 6.2. Topsoil moisture 81% adequate, 19% surplus. Subsoil moisture 48% adequate, 52% surplus. Pasture excellent. Small grain mostly fair to good. Barley 14% headed, 3% 1993, 13% avg. Rye 14% headed, 1% 1993, 11% avg. Corn grain 6% planted, 5% 1993, 8% avg. Sweet corn 8% planted, 11% 1993, 13% avg. Potato 20% planted, 72% 1993, 67% avg. Apples 17% bloomed, 3% 1993, 42% avg. Peaches 95% bloomed, 57% 1993, 81% avg. Peaches in north, west part of State were permanently damaged by severe January freeze. Strawberries 33% bloomed, 6% 1993, 32% avg. Vegetable planting progressing behind normal.

DELAWARE: Precipitation 0.16 in., normal 0.78 in. Temperature 58.2°, normal 54.3°. Extremes 33°; 84°.

Days suitable for fieldwork 5.4. Topsoil moisture 100% adequate. Subsoil moisture 50% adequate, 50% surplus. Pasture excellent. Small grain condition mostly fair. Corn grain 10% planted, 5% 1993, 13% avg. Sweet corn 9% planted, 11% 1993, 16% avg. Potato 36% planted, 52% 1993, 74% avg. Apples 12% bloomed, 2% 1993, 48% avg. Peaches 66% bloomed, 73% 1993, 89% avg. Strawberries 20% bloomed, 1% 1993, 16% avg. Vegetable planting progressing behind normal.

**MICHIGAN:** Temperature extremes 20°; 79°. Precipitation none to 0.28 in. Warm weather made it possible for some spring planting.

Corn, oats planting were underway. Livestock were doing well. Feed supplies were adequate to short. Pastures were in fair condition, in need of some rain. Major activities: spreading fertilizer, lime, field preparation, planting, preparing equipment for planting.

**MINNESOTA:** Temperatures 4 to 7° above normal for the State. Extremes 20°; 88°. Precipitation 0.28 to 0.48 in. below normal for the State. Precipitation none to 0.45 in. for the State. Greatest weekly total 1.37 in.

Days suitable for fieldwork 3.9. Topsoil 1% very short, 1% short, 82% adequate, 16% surplus. Subsoil 2% short, 69% adequate, 29% surplus. Corn 40% land prepared, 5% 1993, 18% avg.; 20% planted, 0% 1993, 3% avg. Soybeans 6% land prepared, 2% 1993, 5% avg. Spring wheat 26% planted, 18% 1993, 32% avg. Oats 45% planted, 11% 1993, 32% avg. Barley 18% planted 15% 1993, 22% avg. Sugarbeets 14% planted, 10% 1993, 14% avg. Potatoes 8% planted, 4% 1993, 3% avg. Green peas 25% planted, 5% 1993, 20% avg. Fall seeded small grain 23% dormant, 6% poor, 68% good, 3% excellent.

**MISSISSIPPI:** Temperatures 3.2° above normal. Extremes 39°; 92°. The only precipitation occurred in the southern, coastal districts averaging less than one inch. Rainfall 0.29 in., 0.91 in. below normal. Soil temperature 72°.

Days suitable for fieldwork 4.8. Soil moisture 5% short, 80% adequate, 15% surplus. Corn 83% planted, 45% 1993, 61% avg.; 60% emerged, 23% 1993, 45% avg.; 6% poor, 23% fair, 67% good, 4% excellent. Cotton 30% planted, 1% 1993, 16% avg. Peanuts 25% planted, 3% 1993, 9% avg. Rice 60% planted, 7% 1993, 28% avg.; 32% emerged, 3% 1993, 9% avg.; 43% fair, 46% good, 11% excellent. Sorghum 47% planted, 18% 1993, 30% avg.; 31% emerged, 8% 1993, 16% avg.; 6% poor, 36% fair, 46% good, 12% excellent. Soybeans 14% planted, 0% 1993, 2% avg. Sweet potatoes 16% planted, 0% 1993, 4% avg. Watermelons 65% planted, 47% 1993, 59% avg.; 61% fair, 39% good. Wheat 100% jointing, 87% 1993, 95% avg.; 74% heading, 17% 1993, 64% avg.; 38% fair, 42% good, 20% excellent. Livestock 9% fair, 75% good, 16% excellent. Pasture 86% of normal. Activities: Land preparation for planting crops.

**MISSOURI:** Temperatures 2 to 9° above normal. Rainfall 0.40 in., ranging from 0.01 in. southeastern district to 0.84 in. northeastern district.

Days suitable for fieldwork 3.7. Topsoil moisture 3% short, 60% adequate, 37% surplus. Ground worked at least once for spring crops 70%, 34% 1993, 72% avg. Corn planting most advanced southwestern 59%, southeastern 41%. Grain sorghum, cotton planting began. Oats planted 92%, 20% 1993, 76% avg. Pastures 3% poor, 46% fair, 42% good, 9% excellent.

**MONTANA:** Temperatures well above normal. Precipitation light to moderate, except southeast light to none.

Days suitable for fieldwork 6.5. Topsoil moisture 23% short, 73% adequate, 4% surplus. Subsoil moisture 35% short, 61% adequate, 4% surplus. Field tillage work in progress 4% none, 24% just started, 72% well underway. Barley 40% planted, 11% 1993, 27% avg. Oats 25% planted, 8% 1993, 19% avg. Sugarbeets 59% planted, 40% 1993, 35% avg. Livestock most regions receiving supplemental feed. Calving 91% complete, lambing 80% complete.

**NEBRASKA:** Temperatures 7 to 9° above normal east, as much as 12 to 14° above normal west. Precipitation widely scattered averaging less than 0.10 in. except in the Panhandle with 0.91 in.

Days suitable for fieldwork 6.4. Topsoil 41% short, 59% adequate. Subsoil 2% short, 96% adequate, 2% surplus. Wheat 5% poor, 20% fair, 61% good, 14% excellent; 8% jointed, 8% 1993, 17% avg. Oats 96% sown, 18% 1993, 76% avg. Corn 14% planted, 1% 1993, 7% avg. Pasture, range 96% of normal. Spring calving 92% complete with spring calf losses at 33% below average, 67% average.

**NEVADA:** Some isolated thundershowers, mostly in north, east. Temperatures much above normal all areas but northwest. Cold

spring temperatures returned weekend. Extremes 24°; 105°.

Surface irrigation water supplies continue very short. Getting ready to plant potatoes, spring planting progress other crops about normal. Calving nearing completion, range flock lambing, shearing continues.

**NEW ENGLAND:** Precipitation none to 0.57 in. regionwide. Temperatures 34 to 44° north; 42 to 52° south. Maximum temperatures 48 to 73° north; 53 to 80° south. Minimum temperatures 14 to 28° north; 21 to 40° south.

Major farm activities: Greenhouses sales of spring flowers, early bedding plants picking up. Fixing fences. Starting to move livestock onto pastures. Planting peas. Plowing fields in preparation for planting other crops. Moving apples, potatoes out of storage.

**NEW JERSEY:** Temperatures near normal. Extremes 26°; 85°. Rainfall 0.06 in. north, 0.02 in. central, 0.01 in. south. The heaviest 24 hour-total 0.08 in. Estimated soil moisture, in percent of field capacity, 94% north, 91% central, 76% south. Four-inch soil temperatures 52° north, 54° central, 57° south.

Days suitable for fieldwork 6 to 7. Ground preparation 1 week behind. Extensive plowing. Planting spring vegetables, potatoes, corn, sweet corn, carrots. Limited planting peppers, tomatoes, squash. Peaches at or past full bloom. Apples beginning bloom.

**NEW MEXICO:** State got a preview of early summer as temperatures were 8° above normal. A few anomalies over the north half exceeded +10°. Very few spots even registered minimums below freezing. Precipitation was from scattered showers, thunderstorms, mainly over the central, east. Higher totals were between 0.25 to 0.50 in.

Days suitable for fieldwork 6.6. Soil moisture 82% short, 18% adequate. Light freeze damage in a few spots. Wind damage light to moderate across the State affecting planting, emerging crops. Cropland conditions: Alfalfa 9% poor, 35% fair, 56% good. Irrigated wheat 6% poor, 39% fair, 49% good, 6% excellent. Dryland wheat 35% very poor, 44% poor, 21% fair. Wheat crop 2% headed. Onions, lettuce fair to mostly good. Cattle, sheep very poor to good with over 90% in the fair to good range. Range feed 58% of normal.

**NEW YORK:** Dry, cool week. Highs mid 40s to mid 50s. Lows mid 20s to mid 30s. Extremes 18°; 84°. Precipitation sparse. Rainfall under 0.25 in.

Days suitable for fieldwork 3.3. Soil moisture mostly adequate to surplus. Pasture 90% of normal. Oat planting started. Hay, wheat fair to good condition. Some potato planting underway. Maple syrup production varied greatly depending on sugar bush location. Sap sweetness above average. Cold winter caused varying degrees of damage to fruit trees. Vineyards also experienced winter injury, severity depending on variety, site location. Vegetable planting active, especially in southern areas. Strawberry fields being uncovered. Orange County onions 65% planted. Cabbage plants for transplanting started arriving from southern areas.

**NORTH CAROLINA:** Mean temperatures 1 to 5° above normal. Smallest positive departures were in the northern half of the State. Rainfall 1.14 in. in northern Bladen County to no precipitation at many locations.

Days suitable for fieldwork 5.7. Soil moisture 19% short, 74% adequate, 6% surplus. Crop conditions: Wheat 1% poor, 15% fair, 78% good, 6% excellent; oats 2% very poor, 2% poor, 14% fair, 77% good, 5% excellent; barley 2% very poor, 1% poor, 14% fair, 77% good, 6% excellent; rye 2% poor, 14% fair, 80% good, 4% excellent; pasture 23% fair, 75% good, 2% excellent; outside tobacco plant bed; 2% poor, 16% fair, 77% good, 5% excellent; greenhouse tobacco plant beds 5% fair, 71% good, 24% excellent; irish potatoes; 3% poor, 32% fair, 65% good; peaches 21% fair, 75% good, 4% excellent; truck crops 3% poor, 31% fair, 60% good, 6% excellent; hay, roughage supplies 10% very short, 26% short, 63% adequate, 1% surplus; tobacco plant supplies 94% adequate, 6% surplus. Irish potatoes planted 98%, 95% 1993, 94% avg.; corn planted 69%, 37% 1993, 50% avg.; cabbage transplanted 94%, 94% 1993, 90% avg.; flue cured tobacco transplanted 31%, 15% 1993, 25% avg.; cotton planted 13%, 3% 1993, 9% avg. Activities included: Planting corn, cotton; transplanting tobacco, preparing land for planting. Other activities included: Planting potatoes, vegetables; tending livestock; equipment repair, general farm maintenance.

**NORTH DAKOTA:** Warm weather; measurable rain midweek. Temperatures 4° above normal north-central, northeast, east-central to 10° above normal southwest. Extremes 21° northeast; 87° south-central, west-central. Precipitation none north-central to 0.12 in. west-central.

Days suitable for fieldwork 6.2. Topsoil moisture above average. Topsoil 2% short, 88% adequate, 10% surplus. Subsoil 3% short, 88% adequate, 9% surplus. Planting progress similar to last year, behind average. Hard red spring wheat 9% planted, 10% 1993, 21% avg.; durum wheat 2%, 5% 1993, 8% avg.; oats 3%, 5% 1993, 17% avg.; barley 9%, 10% 1993, 19% avg.; sugarbeets 19%, 16% 1993, 13% avg. Winter wheat 21% fair, 72% good, 7% excellent; 25% dormant, 70% green, 5% stooling or earlier. Roughage requirements furnished by pastures 19%; pastures 93% of normal. Calving was 86% complete, lambing 90%, shearing 92%. Stockwater supplies 90% adequate, 10% surplus.

**OHIO:** It was a mostly dry week for producers, with widely scattered rainfall generally under 0.10 in. A cold front pushed across the State late on the 19th. Cool high pressure in the Ohio Valley after midweek produced low temperatures near or below freezing on the 22nd, 23rd. The week averaged 1 to 5° warmer than normal in most places. Highs 65 to 75°; average lows in the middle 30's to middle 40's. Coldest temperatures occurred on the 22nd, 23rd with some frost, lows in the 20° to lower 30°. Four-inch bare soil temperatures in the upper 50s to middle 60s for maximums, the middle, upper 40s for minimums.

Days suitable for fieldwork 4.2. Soil moisture 71% adequate, 29% surplus. With the exception of a few areas where soils were still wet, fieldwork advanced rapidly. Winter wheat 1% very poor, 4% poor, 24% fair, 55% good, 16% very good. Oats planted 51%, 11% 1993, 51% avg. Potatoes planted 10%. Sugarbeets planted 70%. Pasture 1% very poor, 7% poor, 31% fair, 52% good, 9% very good. Hay 4% poor, 38% fair, 48% good, 10% very good.

**OKLAHOMA:** Temperatures 6° above normal southeast to 11° above normal Panhandle. Precipitation none northeast, west-central, east-central, south-central to 0.50 in. southeast.

Days suitable for fieldwork 6.2. Topsoil 44% short, 55% adequate, 1% surplus. Subsoil 42% short, 58% adequate. Oats 71% fair, 29% good; 66% jointing, 34% 1993, 69% avg.; 14% headed, 1% 1993, 16% avg. Barley 55% jointing, 28% 1993, 64% avg. 11% headed, none 1993, 15% avg. Corn 94% seedbed prepared, 91% 1993, 93% avg.; 47% planted, 66% 1993, 44% avg.; 19% up to stand, 17% 1993, 15% avg. Soybeans 55% seedbed prepared, 30% 1993, 57% avg.; 14% planted, 10% 1993, 5% avg.; 2% up to stand, 1% 1993, 0% avg. Peanuts 69% seedbed prepared, 58% 1993, 57% avg. Pasture 91% of normal. Feeders, stockers were steady to \$3.00 lower.

**OREGON:** Temperatures above normal statewide. Coast 3° above normal, western valleys 6° above normal, eastern sections 9° above normal. Precipitation coast, northern Cascades 0.30 in., Willamette Valley 0.10 in., northeastern mountains, extreme eastern locations 0.20 in., elsewhere dry.

Soil moisture 51% short, 48% adequate, 1% surplus. Winter wheat 6% poor, 29% fair, 51% good, 14% excellent. Barley 53% planted. Columbia Basin of Oregon: Some wheat jointing with heads deep in boot, small grains showing drought stress, canola in bloom stage, summer fallow tillage underway. Willamette Valley grass-seed field fertilization continued, sugarbeet seed fields topped. Sugarbeet planting continued Klamath Basin. Bee activity generally high in orchards. Cherry blossom drop underway, blueberry bloom continued, orchard flailing underway, statewide. Strawberry bloom underway, Willamette Valley. No frost damage to cranberries, southern coast. Nurseries actively digging baled, burlapped plants. Potato, onion planting winding down. Willamette Valley sweet corn, snap peas, broccoli, onions planting continued. Livestock good. Range, pasture 85% of normal. Supplemental feeding winding down, cattle turn out on early public lands underway, calving, branding winding down.

**PENNSYLVANIA:** Dry week across the State. Heaviest precipitation 0.08 in. Warren. Many areas reported no precipitation. Temperature 53°, 5° above normal. Extremes 19°; 83°. Precipitation 0.01 in., 0.81 in. below normal.

Days suitable for fieldwork 5. Soil moisture 3% short, 55% adequate, 42% surplus. Plowing 15% complete, 15% 1993, 41% avg. Corn 0% planted, 2% 1993, 2% avg. Oats 33% planted, 22% 1993, 43% avg. Potatoes 10% planted, 4% 1993, 17% avg. Tobacco beds 80% planted, 66% 1993, 80% avg. Barley 2% boot, 1% 1993, 4% avg. Wheat 1% boot, 2% 1993, 2% avg.; 2% very poor, 11% poor, 26% fair, 48% good, 13% excellent. Hay stands mostly fair to good. Feed from pastures poor to fair. Peaches 17% pink, 21% 1993, 47% avg.; 3% full bloom or past, 9% 1993, 23% avg. Cherries 8% pink, 11% 1993, 39% avg.; 0% full bloom or past, 3% 1993, 19% avg. Apples 2% pink, 3% 1993, 21% avg.; 0% full bloom or past, 0% 1993, 5% avg. Activities: Plowing; planting oats; spreading fertilizer; hauling manure; caring for livestock.

**PUERTO RICO:** Rainfall 0.51 in. was 0.57 in. above normal. Highest total rainfall 2.82 in. at Adjuntas Aes, 2.50 in. at Maricao 2SSW, 1.79 in. at Pico del Este. Island temperatures 77 to 78° on the coasts, 71 to 74° interior with mean station temperature 61.4° at Pico del Este to 80.6° at Roosevelt Roads. Extremes 54°; 92°.

**SOUTH CAROLINA:** Temperatures 2 to 3° above normal statewide. Average rainfall 0.10 in.

Days suitable for fieldwork 6.2. Soil moisture 14% very short, 55% short, 31% adequate. Tobacco fair to good; 81% planted, 56% 1993, 70% avg. Corn fair to good; 96% planted, 82% 1993, 86% avg. Cotton 16% planted, 7% 1993, 8% avg. Cantaloupes fair to good; 81% planted, 66% 1993, 68% avg. Watermelons fair to good; 85% planted, 73% 1993, 78% avg. Cucumbers fair to good; 80% planted, 66% 1993, 72% avg. Snapbeans fair to good; 60% planted, 56% 1993, 56% avg. Tomatoes fair to good; 96% planted, 93% 1993, 94% avg. Oats fair to good; 75% headed, 40% 1993, 64% avg.; 4% turning color, 1% 1993, 3% avg. Rye fair to good; 13% turning color, 4% 1993, 6% avg. Wheat fair to good; 85% headed, 22% 1993, 58% avg.; 1% turning color, 0% 1993, 2% avg. Peanuts 23% planted, 11% 1993, 11% avg. Pastures 3% very poor, 47% fair, 50% good.

**SOUTH DAKOTA:** Temperatures 4 to 16° above normal. Extremes 27°; 91°. Light precipitation, most locations less than 0.25 in. Heaviest 0.83 in. west-central.

Days suitable for fieldwork 5.3. Topsoil moisture 1% very short, 37% short, 45% adequate, 17% surplus. Subsoil moisture 7% short, 68% adequate, 25% surplus. Winter wheat 3% very poor, 3% poor, 17% fair, 67% good, 10% excellent; estimated winterkill 13%. Winter rye 19% fair, 67% good, 14% excellent; estimated winterkill 3%. Spring planting progress near average. Barley 46% planted, 11% 1993, 49% avg. Oats 60% planted, 14% 1993, 62% avg. Spring wheat 58% planted, 22% 1993, 61% avg. Corn 2% planted, none 1993, none avg. Flax 2% planted, none 1993, 7% avg. Livestock 4% fair, 80% good, 16% excellent. Calving 72% complete, lambing 72%. Feed supply 1% very short, none short, 88% adequate, 11% surplus. Pastures 87% of normal, need additional growth before cattle will be moved. Water supply 70% adequate, 30% surplus.

**TENNESSEE:** Temperatures were slightly above normal. The Plateau, eastern areas 1 to 2° above normal while the west was about 5° above normal. Most locations recorded no rainfall.

Days suitable for fieldwork 4.8. Soil moisture 83% adequate, 17% surplus. Corn 19% planted, 19% 1993, 27% avg. Cotton 3% planted, 0% 1993, 3% avg. Sorghum 2% planted, 0% 1993, 3% avg. Tobacco 97% seeded, 97% 1993, 99% avg.; 77% plants up, 81% 1993, 88% avg. Wheat 81% jointed, 74% 1993, 85% avg.; 7% headed, 2% 1993, 13% avg.; 1% poor, 18% fair, 72% good, 9% excellent. Apples 95% budding or beyond, 96% 1993, 96% avg.; 68% blooming or beyond, 72% 1993, 86% avg. Peaches 96% blooming or beyond, 99% 1993, 100% avg. Strawberries 0% poor, 28% fair, 72% good, 0% excellent. Pastures 1% poor, 13% fair, 81% good, 5% excellent. Cattle, 16% fair, 82% good, 2% excellent. Full week of sunshine allowed field preparation to progress state wide allowing more corn, some cotton to be planted. Wheat condition improved as producers took advantage of dry weather to apply fungicides.

**TEXAS:** Week began warm, dry. Then, strong influx of moist, gulf air took place. Several weak weather disturbances interacted with moist air to trigger showers, thunderstorms latter half of the week. Clouds and showers resulted in some mild afternoon temperatures. West Texas received some badly needed moisture, amounts there

were generally under a half inch. Precipitation ran below normal except for Trans-Pecos, High Plains which received slightly above normal totals. Temperatures were generally above normal. However, readings were slightly below normal in Coastal Bend, South Texas, Lower Rio Grande Valley.

**Crops:** Corn planting increased in High, Low Plains. Fields were cultivated, fertilized from Blacklands southwards. In South Texas soil moisture was still critical, producers were beginning to irrigate where water was available. Corn 82% normal, 83% 1993. Cotton planting began on limited basis in High Plains. Land preparation continued as farmers applied herbicides, fertilized fields. Cool temperatures in South Central Texas slowed cotton growth, while irrigation began in southern areas. In Rio Grande Valley, plants began to square as fruit branches developed. Rice planting activities continued, slowed in some areas due to scattered showers, cooler temperatures. Sorghum planting continued in Blacklands, with most producers in Edwards Plateau delaying dry land planting due to lack of moisture. Cultivation activities progressed in Blacklands, while sidedressing was common in Upper Coast. Sorghum 88% normal, 76% 1993. Soybeans plantings continued in Blacklands, Upper Coast with dry conditions in Blacklands slowing progress. 19% planted, 14% 1993. Small grains: dry conditions throughout State continued to stress small grains. Many producers in Blacklands, Edwards Plateau were opting to cut small grains for hay or use for grazing. Some Blackland producers also reported armyworms infesting wheat, while oats suffered from head smut. Wheat 54% normal, 76% 1993. Sugarbeets 80% planted, 91% 1993. Sunflowers 1% planted, 6% 1993.

**Commercial Vegetables:** Rio Grande Valley carrot harvest began. Cloudy conditions affected crown set on some melon varieties. San Antonio Winter Garden vegetables made good progress. Trans Pecos chili planting continued. Irrigation activities continued on onions and cantaloupes with some growers preparing for onion harvest. East Texas preparation for setting out sweet potato transplants began, watermelon planting continued. High Plains onions made good progress with low insect pressure. Peaches fruit development progressed in Blacklands with some reports of disease, insect problems. East Texas trees blooming, while trees in Trans Pecos setting fruit. Peaches in Edwards Plateau sizing well. Producers in South Central Texas were thinning crops, spraying. Harvest continued in Rio Grande Valley. Pecans Trees continued leafing out and blooming across State. Some reports of phyloxera damage were occurring in Blacklands.

**Range and Livestock:** Pasture, range conditions continued to decrease over much of State as dry, windy conditions continued. Some areas benefited from showers last week, more rain is needed to boost growth of spring grasses. Culling of livestock herds continued as result of dry conditions, lack of hay. Hornflies began to infest livestock in Blacklands, South Central Texas, while lice, fly problems increased in Trans-Pecos.

**UTAH:** Temperature maximums 17° above normal, minimums averaged 10° above normal. Precipitation light in Uinta Basin with the rest of the State receiving little or no precipitation.

Days suitable for fieldwork 6.5. Soil moisture 22% short, 72% adequate, 6% surplus. Alfalfa hay height 4.8 in., 4.6 1993. Winter wheat 87% good, 13% fair. Fall barley 87% good, 13% fair. Spring wheat: Planted 91%, 54% 1993, 86% avg.; emerged 61%, 16% 1993, 53% avg. Barley planted 84%, 57% 1993, 85% avg.; emerged 53%, 20% 1993. Oats planted 57%, 40% 1993, 64% avg.; emerged 32%, 12% 1993. Corn planted 31%, 3% 1993, 15% avg. Sweet cherries bloomed 98%. Tart cherries bloomed 100%. Peaches bloomed 100%. Apples bloomed 98%. Pears bloomed 100%. Potatoes planted 10%. Cows calved 86%. Calf death losses 51% below normal, 49% normal. Ewes lambd on farm 91%. Ewes lambd on range 71%. Lamb death losses 27% below normal, 73% normal. Sheep sheared on farm 83%. Sheep sheared on range 76%. Pasture, range conditions good to excellent.

**VIRGINIA:** Temperatures above normal. Extreme high 89°. Precipitation near normal.

Days suitable for fieldwork 5.0. Topsoil 5% short, 95% adequate. Barley 1% poor, 46% fair, 47% good, 6% excellent. Wheat 50% fair, 46% good, 4% excellent. Pasture 29% fair, 64% good, 7% excellent. Alfalfa hay 18% fair, 76% good, 6% excellent. Other hay 42% fair, 50% good, 8% excellent. Peaches 54% very poor,

19% fair 27% good. Apple 9% fair, 91% good. Tobacco plant bed 77% fair, 23% good. Tobacco greenhouse 22% fair, 30% good, 48% excellent. Potato planting was virtually complete. Corn was 28% planted, 24% 1993, 27% avg. Peanuts planted 4%, 4% 1993, 7% avg. Soybeans planted 1%, 0% 1993, 1% avg. Cotton planted 23%, 0% 1993, 18% avg. Managing tobacco plantbeds, clipping tobacco greenhouses.

**WASHINGTON:** Temperatures 3 to 9° above normal west; 9 to 15° above normal east. Precipitation 0.05 to 0.56 in. west; none to 1.05 in. east.

Days suitable for fieldwork 6.2. Soil moisture 45% short, 55% adequate. Hay, other roughage supplies 2% very short, 19% short, 78% adequate, 1% surplus. Range, pasture 19% poor, 59% fair, 21% good, 1% excellent. Winter wheat dryland 17% poor, 33% fair, 42% good, 8% excellent; irrigated 1% poor, 2% fair, 82% good, 15% excellent. Spring wheat dryland 4% poor, 53% fair, 43% good; irrigated 5% fair, 89% good, 6% excellent. Barley dryland 15% poor, 45% fair, 40% good; irrigated 100% good. Spring wheat 93% planted, 49% 1993, 83% avg.; 70% emerged 19% 1993, 60% avg. Barley 92% planted, 37% 1993, 73% avg.; 68% emerged, 11% 1993, 49% avg. Potatoes 78% planted, 50% 1993, 58% avg.; 17% emerged, 3% 1993, 17% avg. Warm weather dominated, while some rain was received. Fieldwork was quite active with significant planting progress in small grains, potatoes. Drought conditions were reported in many areas in the east, moisture stress was becoming evident in many fields. Spring grain planting was winding down in many areas. Pears, apples were in bloom across the State; fire blight, apple scab infection periods were seen in both the Wenatchee, Yakima Valleys. Livestock continued to be turned out to spring pastures.

**WEST VIRGINIA:** Temperature 56°. Extremes 22°; 88°. Precipitation 0.09 in.

Days suitable for fieldwork 5.1. Soil moisture 4% short, 77% adequate, 19% surplus. Barley good. Wheat 2% fair, 98% good. Hay 27% fair, 73% good. Apples 10% poor, 69% fair, 21% good. Peaches 100% very poor. Soil prepared 32%. Corn planted 9%. Oats 51% planted; 25% emerged. Tobacco beds 99% planted; 55% emerged. Gardens 13% planted; 9% emerged. Soybeans planted 0%. Pastures 2% poor, 38% fair, 52% good, 8% excellent; 85% of normal. Cattle 19% fair, 81% good. Sheep 6% fair, 94% good. Hay feed supplies 16% very short, 52% short, 32% adequate. Other feed supplies 25% short, 75% adequate. Farm activities: Fertilizing, plowing, planting gardens, calving, lambing, mending fences.

**WISCONSIN:** Temperature 52°, 4° above normal. Extremes 13°; 87°. Precipitation 0.10 to 1.80 in. Weather was mostly dry, windy throughout the week. Rains over the weekend were welcome to help with germination, keeping the dust down.

Soil moisture 20% short, 77% adequate, 3% surplus. Fieldwork has been going very well in the central, southern areas of the State, reporters in the northern areas indicate patches of frost in the ground are slowing progress. In some of the southern areas there are reports of corn being planted, most reporters indicate the ground is still too cool for corn. Oats plantings have been going full steam last week with 45% planted, 4% 1993, 19% avg.

**WYOMING:** Temperatures this past week were above normal. The averages ranged from 10° above normal in Jackson to 18° above normal in Lander. Precipitation was two to four tenths of an inch below normal across the entire State. Deaver received the largest amounts of precipitation with 0.50 in.

Days suitable for fieldwork 6.3. Topsoil 41% short, 55% adequate, 4% surplus. Spring wheat 30% planted, 16% 1993, 45% avg.; 13% emerged, 0% 1993, 13% avg. Oats 35% planted, 24% 1993, 40% avg.; 17% emerged, 1% 1993, 11% avg. Barley 26% planted, 53% 1993, 71% avg.; 49% emerged, 14% 1993, 36% avg. Sugarbeets 60% planted, 38% 1993, 56% avg.; 27% emerged, 0% 1993, 5% avg. Corn 9% planted, 0% 1993, 7% avg. Prospective irrigation water supplies 32% short, 68% adequate. Spring calves born 87%, 85% 1993, 83% avg. Calf death losses 32% light, 68% normal. Farm flock: Ewes lambd 95%, 88% 1993, 90% avg.; shorn 96%, 85% 1993, 86% avg. Range flock: Ewes lambd 23%, 32% 1993, 41% avg.; shorn 63%, 62% 1993, 63% avg. Lamb death losses 14% light, 86% normal. Stockwater supplies 9% short, 91% adequate. Current rate of growth of hay, range grasses 24% slow, 49% average, 27% above average.

# International Weather and Crop Summary

## HIGHLIGHTS

April 17 - 23, 1994

**EUROPE:** Milder, drier weather promoted winter crop growth and spring crop planting.

**AUSTRALIA:** Dry weather favored summer crop harvesting and early wheat planting across eastern Australia.

**SOUTH ASIA:** Heavy rain in the east increased moisture for main-season rice, but caused additional flooding.

**SOUTHEAST ASIA:** Showers continued across Thailand's northern and eastern rice areas, but hot, dry weather in the corn belt impeded planting.

**EASTERN ASIA:** Rains benefited vegetative to reproductive winter wheat and increased topsoil moisture for summer crop planting across the North China Plain.

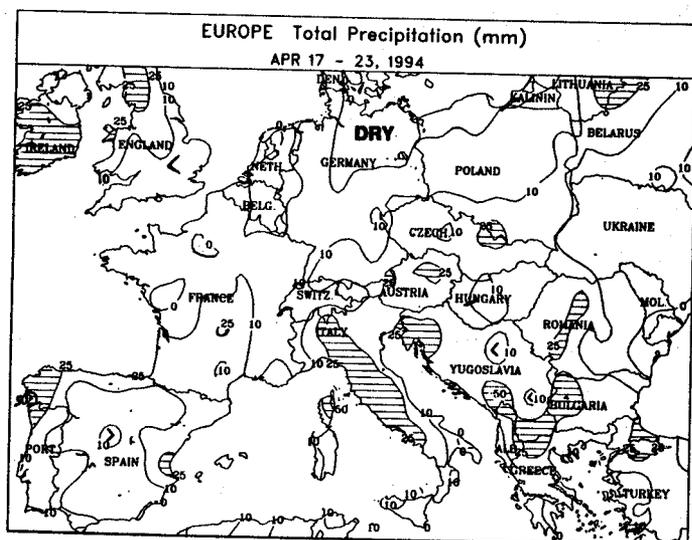
**SOUTH AFRICA:** Rain improved winter wheat planting prospects.

**NORTHWESTERN AFRICA:** Scattered showers and cool weather brought temporary relief to drought-stressed winter grains in Algeria and Tunisia.

**SOUTH AMERICA:** Wet weather delayed summer crop harvesting across southern Brazil.

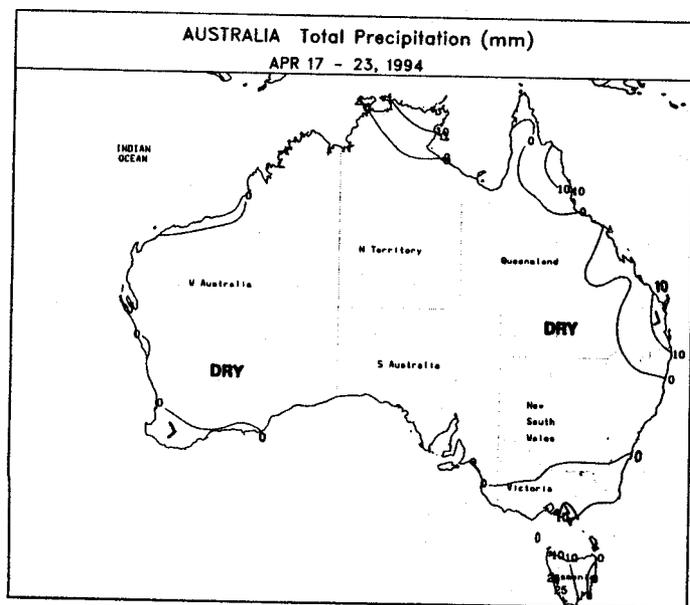
**FSU-WESTERN:** Winter grains continued greening as far north as Central Region in Russia.

**MEXICO:** Unseasonable rains fell across central Mexico, increasing reservoirs and topsoil moisture for pre-planting fieldwork.

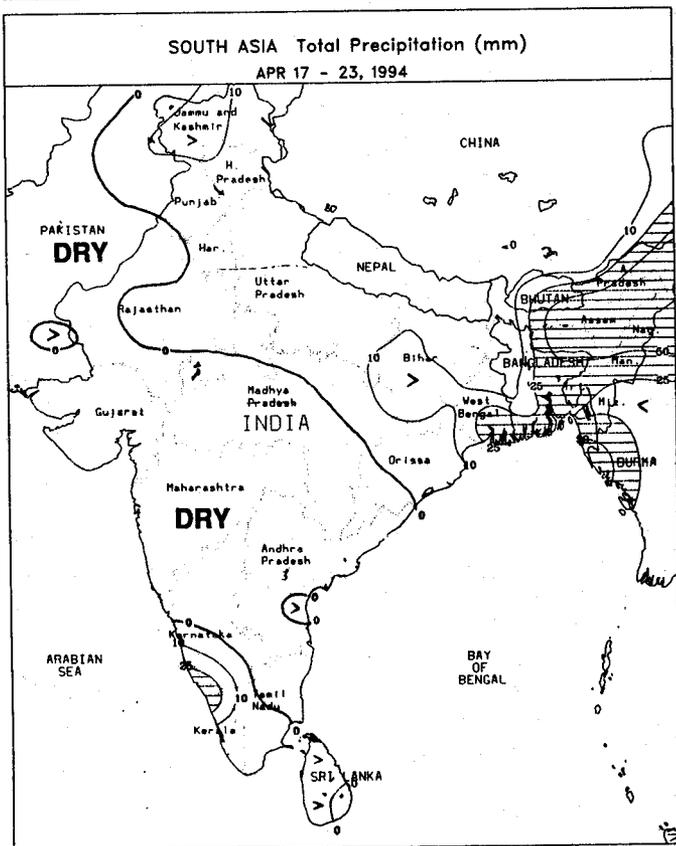


**EUROPE:** Drier, milder weather prevailed over most crop areas, promoting spring fieldwork and winter crop growth. In northern Europe, the generally dry weather, accompanied by average high temperatures of 13-16 degrees Celsius (C) and adequate soil moisture, favored growth of winter grains and oilseeds. Early spring crop planting was also underway across northern France. The favorable spring weather extended into southeastern England, but heavier showers (10-43 mm) slowed fieldwork elsewhere in the United Kingdom. Showers (10-28 mm) kept southwestern corn areas of France favorably moist for early planting. Highly variable rainfall over the Iberian Peninsula helped crops in Portugal and northwestern Spain, but provided little relief elsewhere in Spain from unfavorable dryness. In contrast, widespread showers (10-37 mm) over Italy and from the Czech Republic southward to Bulgaria moistened topsoils for winter grain development and summer crop planting. Soil moisture is limited over portions of southeastern Europe, especially in eastern portions of Romania and Bulgaria.

*Correction: On page 17 of last week's Bulletin (April 19, 1994), the heading for the European monthly percent of normal rainfall map should have read "March 1994."*

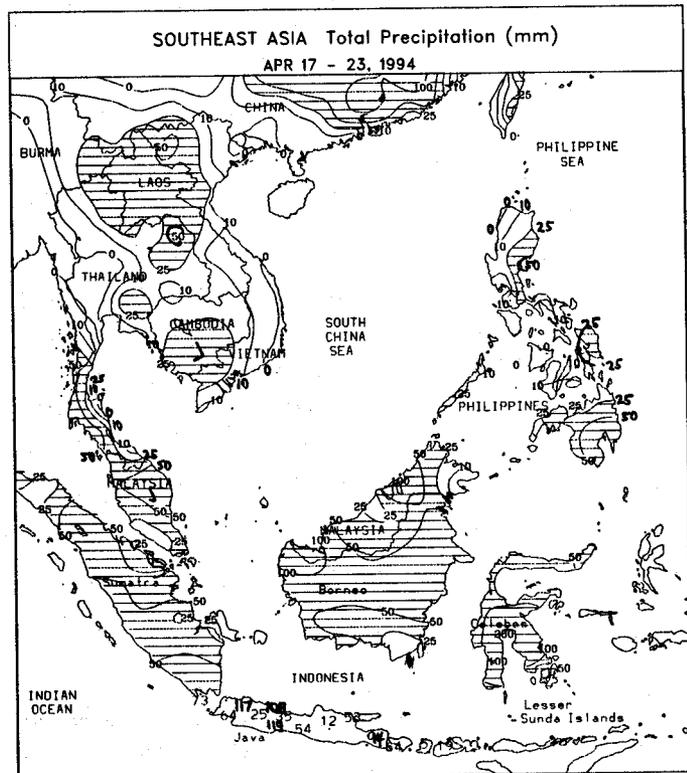


**AUSTRALIA:** Dry weather dominated the eastern crop areas, favoring summer crop harvesting and early wheat planting in east-central Queensland. Scattered light showers (1-17 mm) fell across the northeastern sugarcane areas of Queensland. Sugarcane harvesting usually begins in earnest by June. Rainfall has been below normal across the southeastern pastures during the past month, while New Zealand has received plentiful rain for pasture growth.

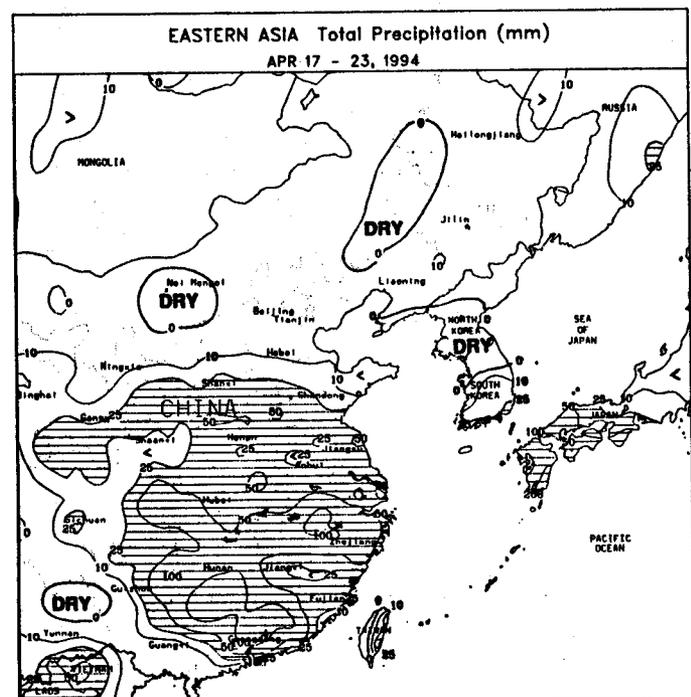


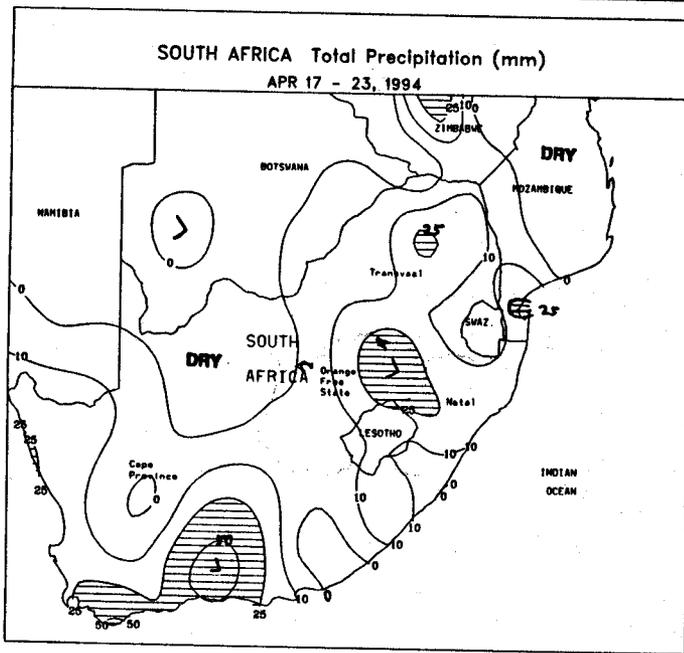
**SOUTH ASIA:** Scattered showers covered primary rice areas of eastern India and Bangladesh, increasing moisture for main-season planting. However, heavy rain (50-100 mm) concentrated over India's Eastern States caused more localized flooding and crop damage. The rain hampered harvest of the Boro rice crop in Bangladesh. Elsewhere, scattered, mostly light rain (less than 10 mm) covered the northern winter crop areas, and dry weather returned to India's southern interior. Temperatures averaged 1-2 degrees C below normal over most winter crop areas, but the highs reached the upper 30's to low 40's C, drying down maturing crops.

**EASTERN ASIA:** Moderate rains (15-50 mm) covered the North China Plain, benefiting vegetative to reproductive winter wheat and increasing topsoil moisture for summer crop planting. Since the majority of winter wheat is irrigated, the recent rains helped to ease irrigation water use and replenish supplies. Mostly dry weather prevailed as only light rain (1-7 mm) fell across Manchuria, allowing summer crop planting to progress. However, moisture is needed for germination. Widespread showers (15-70 mm) blanketed the Yangtze Valley and southern China, increasing irrigation supplies for rice. Heavier showers (60-150 mm) fell across southern Hunan, northeast Guangxi, northern Guangdong, and southern Jiangxi. Temperatures averaged 1-2 degrees C above normal across the North China Plain and 2-4 degrees C above normal across Manchuria and southern China.

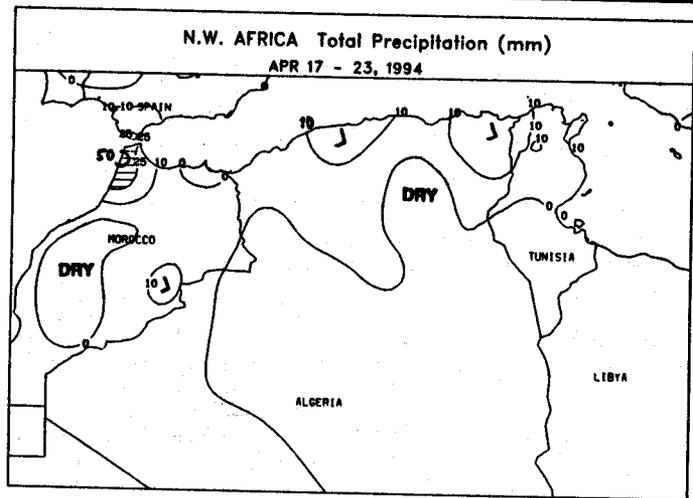


**SOUTHEAST ASIA:** Moderate to heavy rain (25-72 mm) continued over Thailand's northern and eastern rice areas. In contrast, hot, dry weather dominated the corn belt, slowing early planting progress. Scattered, variable showers (14-111 mm) continued over the Malay Peninsula, and much of eastern Malaysia and Indonesia. Heavy showers (50-100 mm) likely caused more flooding in western Java. In the Philippines, moderate to heavy rain (25-50 mm or more) benefited newly planted rice and corn.



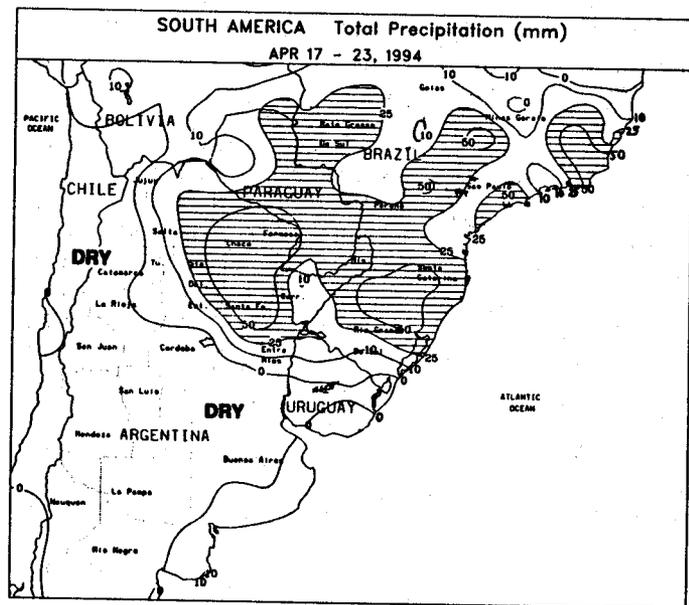


**SOUTH AFRICA:** Moderate to heavy showers (25-50 mm) in primary winter wheat areas of southern Cape province and eastern Orange Free State improved planting prospects. However, the rain in Orange Free State hampered corn harvests. Dry weather in the western corn belt aided maturing crops, but topsoils are becoming too dry for winter wheat germination from western Transvaal to Lesotho. Temperatures dropped to near freezing (1-2 degrees C) across the corn belt, and frost was possible in some areas.



**NORTHWESTERN AFRICA:** Dry weather over Morocco benefited early winter grain harvesting in the south but continued to limit moisture for filling crops in the north. In Algeria and Tunisia, scattered showers (4-10 mm, with local amounts in excess of 15 mm) brought only temporary relief to drought-stressed winter grains in the filling stage. Weekly average temperatures were 2-4 degrees C below normal over Morocco, Algeria, and Tunisia, lowering heat stress on crops.

**SOUTH AMERICA:** Moderate showers (25-70 mm) fell across most crop areas of southern Brazil, delaying corn and soybean harvesting, especially in Rio Grande do Sul and Parana. Typically by late-April, about 60 percent of soybeans are harvested. In Argentina, dry weather prevailed across the central crop areas, favoring summer crop harvesting. Minimum temperatures were reported from 0 to -1 degrees C across portions of northern Buenos Aires and northern La Pampa. The cool weather should have had little impact on second-crop soybeans, since most of the crop is in the late-filling to mature crop stage. Early-week showers (30-90 mm) slowed cotton harvesting in northern Argentina. Temperatures averaged 2-4 degrees C below normal across central Argentina and 1-3 degrees C above normal across southern Brazil. Southern Paraguay received 20-50 mm of rain, slowing soybean and cotton harvesting.



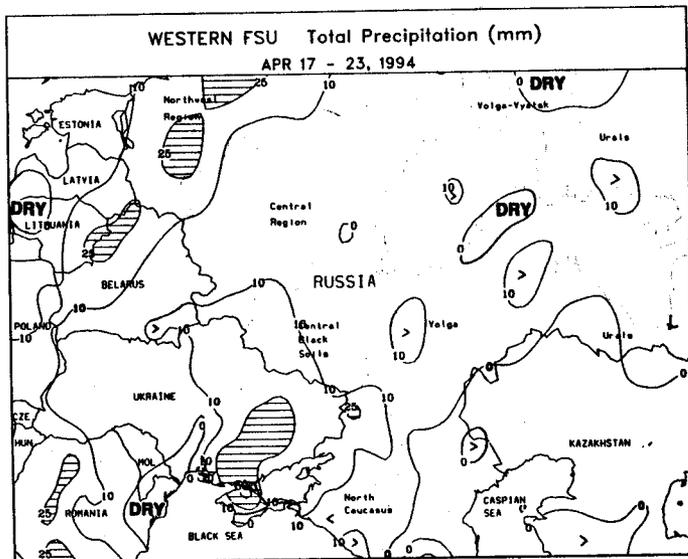
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**FSU-WESTERN:** Crop progress for winter grains ranged from mostly jointing over Ukraine and southern Russia (North Caucasus), to tillering in the Baltic States, Belarus, and central Russia (Black Soils Region and lower Volga). Winter grains remained dormant in northern Russia (Central Region, Volga Vystsk). Spring grain planting was likely well underway over Ukraine and southern Russia, where generally dry weather and above-normal temperatures allowed rapid progress. Significant rain (25-50 mm, locally reaching 98 mm) was confined to Crimea and southeastern areas in Ukraine, interrupting fieldwork. Adequate moisture reserves favored crop growth in Russia, most of Ukraine, Belarus, and the Baltic States. Unfavorably dry weather over Moldova and southwestern Ukraine limited moisture for winter grains and spring grain planting.



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