

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

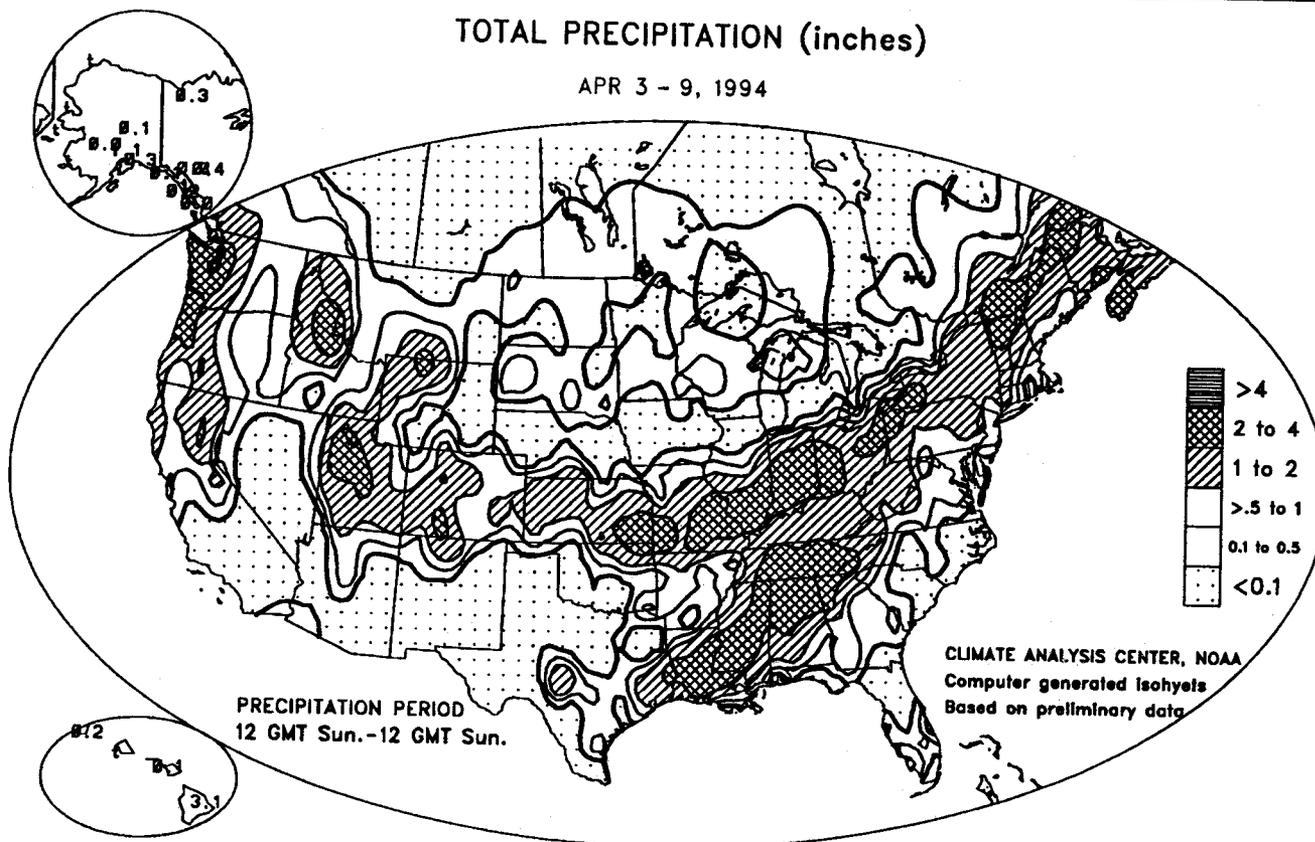
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April 12, 1994

TOTAL PRECIPITATION (inches)

APR 3 - 9, 1994



HIGHLIGHTS

April 3 - 9, 1994

A procession of spring storms, most notably a late-week system, mitigated long-term dryness in the central Plains. Unseasonably cold air, including a freeze into north-central Texas and the Ohio River Valley, preceded the late-week storm. A stripe of heavy snow accompanied the freeze from eastern Colorado, across parts of Kansas, into central Missouri and central Illinois. Midweek snow depths included 5 inches in Kansas at Garden City and Russell, 2 inches in Kansas City, MO, and 1 inch in Springfield, IL. Incredibly, the high temperature reached 79°F at Russell on Monday, but struggled only to 32°F on Tuesday. Farther north, a disturbance deposited 1 to 3 inches of snow from Wyoming to Wisconsin. Snow depths on Tuesday morning included 2 inches in Sioux Falls, SD and Madison, WI, and 1 inch in Ainsworth, NE and Waterloo, IA. Snowfall intensified across the

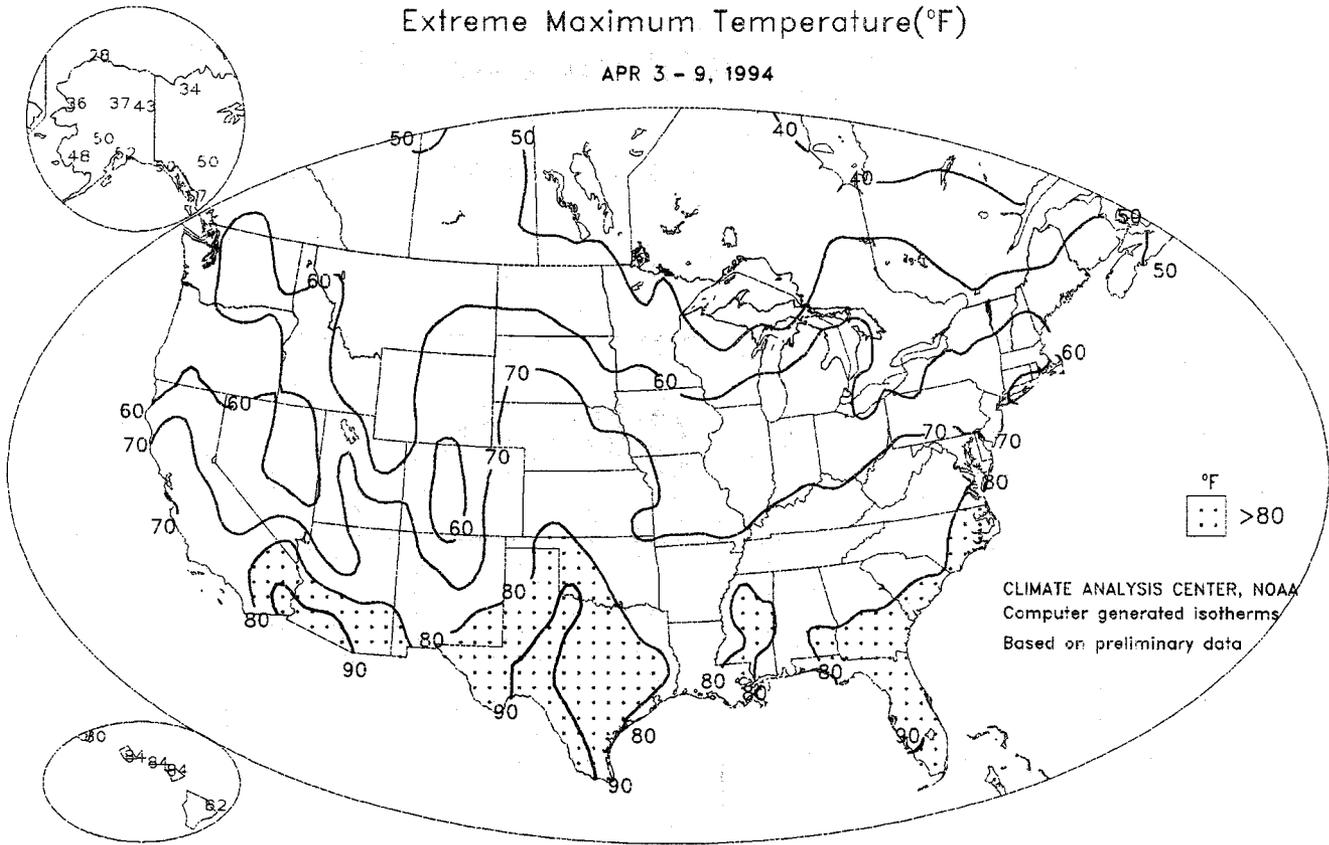
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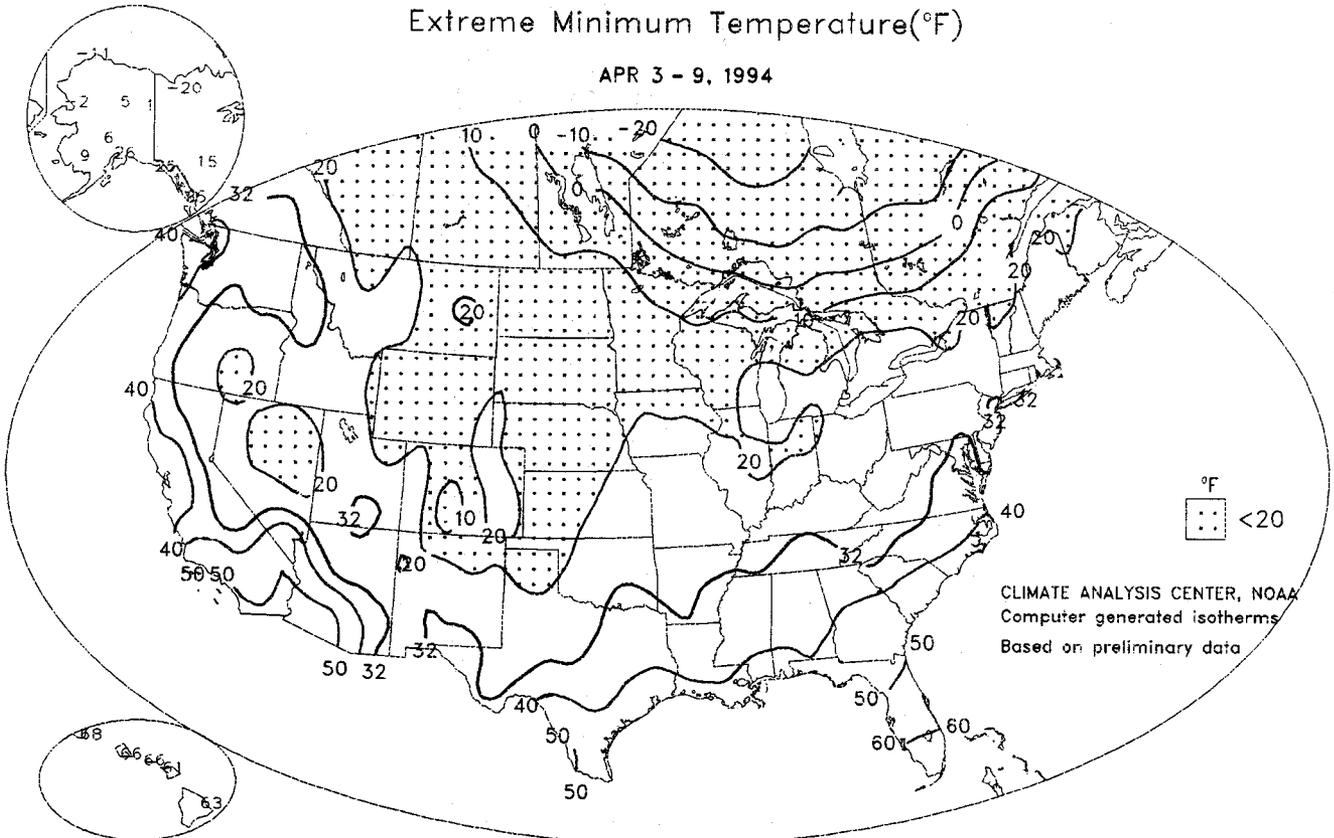
Extreme Maximum Temperature(°F)

APR 3 - 9, 1994



Extreme Minimum Temperature(°F)

APR 3 - 9, 1994



National Weather Data for Selected Cities

Weather Data for the Week Ending April 9, 1994

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS						
	AVERAGE	MAXIMUM	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	MINIMUM	90 AND ABOVE	32 AND BELOW	TEMP. °F		PRECIP.	
																			.01 INCH OR MORE	.50 INCH OR MORE		
AL BIRMINGHAM	68	46	75	38	57	-3	2.5	1.3	2.0	10.1	129	20.0	113	89	47	0	0	3	1	0	1	
MOBILE	74	48	79	43	61	-5	.2	.9	.2	4.5	58	13.4	69	94	49	0	0	1	0	0	0	
MONTCOMERY	74	45	82	38	60	-2	1.1	.0	1.1	6.8	89	17.0	94	91	42	0	0	2	2	0	0	
AK ANCHORAGE	45	29	52	26	37	5	.4	.3	.3	1.9	211	2.8	113	89	54	0	0	6	2	0	0	
BARROW	11	-2	28	-12	5	13	.0	.0	.0	.1	67	.2	48	84	77	0	0	7	1	0	0	
FAIRBANKS	40	22	46	17	31	7	.1	.0	.1	.2	47	1.0	74	76	48	0	0	7	1	0	0	
JUNEAU	50	34	54	29	42	5	.7	.6	.5	5.4	131	14.4	116	97	58	0	0	4	0	0	0	
KODIAK	46	34	48	29	40	4	.7	.2	.3	11.6	198	27.7	150	94	62	0	0	3	4	0	0	
NOISE	30	15	40	4	23	9	.0	.1	.2	1.2	168	2.5	118	79	59	0	0	7	1	0	0	
AZ PHOENIX	80	58	88	53	69	2	.0	.1	.0	1.4	133	2.0	86	34	14	0	0	0	0	0	0	
FRESNOCO	63	39	70	32	51	4	.2	.0	.2	.7	31	2.0	39	51	19	0	0	1	1	0	0	
TUCSON	81	50	88	44	66	2	.0	.1	.0	1.1	137	2.2	92	39	10	0	0	0	0	0	0	
TUMA	84	63	89	57	73	4	.0	.0	.0	.1	40	.4	44	28	13	0	0	0	0	0	0	
AR FORT SMITH	66	42	76	30	54	5	.3	.6	.3	4.4	86	11.8	122	83	39	0	0	0	0	0	0	
LITTLE ROCK	64	44	72	34	54	6	.9	.1	.7	5.5	88	14.0	109	82	41	0	0	0	0	0	0	
CA BAKERSFIELD	74	50	82	48	62	1	.1	.0	.1	1.1	88	3.0	95	46	15	0	0	0	0	0	0	
EUREKA	56	47	58	43	52	2	.6	.2	.2	2.7	42	14.9	87	85	46	0	0	0	0	0	0	
FRESNO	73	49	80	43	61	2	.4	.1	.4	.9	41	4.1	68	77	18	0	0	0	0	0	0	
LOS ANGELES	66	54	69	53	60	1	.2	.1	.2	1.2	52	5.9	82	86	28	0	0	0	0	0	0	
REDDING	68	45	76	35	57	1	.3	.3	.2	2.2	43	12.0	76	81	28	0	0	0	0	0	0	
SACRAMENTO	69	46	76	38	57	1	.3	.1	.2	.3	10	5.0	51	94	38	0	0	0	0	0	0	
SAN DIEGO	65	57	71	56	61	0	.0	.2	.2	3.7	175	7.1	131	79	33	0	0	0	0	0	0	
SAN FRANCISCO	63	48	71	44	56	1	.3	.1	.3	.6	15	8.3	74	92	49	0	0	0	0	0	0	
CO DENVER	57	30	71	25	43	-2	.7	.3	.4	1.6	92	2.9	106	77	30	0	0	0	0	0	0	
GRAND JUNCTION	57	37	69	31	47	-4	.8	.6	.7	1.8	134	2.6	106	76	35	0	0	5	3	0	0	
FUENJO	59	26	73	18	43	-6	.3	.1	.2	1.5	149	2.2	135	88	33	0	0	2	2	0	0	
CT BRIDGEPORT	55	36	57	31	45	0	.8	.1	.5	6.5	133	14.8	133	83	49	0	0	6	2	0	0	
HARTFORD	57	33	62	27	45	0	.7	.2	.3	6.4	134	15.6	137	83	42	0	0	4	4	1	0	
DC WASHINGTON	67	44	75	36	56	2	.7	.1	.5	9.2	232	17.7	188	88	44	0	0	0	0	0	0	
FL APALACHICOLA	76	53	79	41	64	-1	.4	.3	.4	5.6	108	14.6	113	88	44	0	0	0	0	0	0	
DAYTONA BEACH	79	60	86	51	70	2	.0	.5	.0	3.4	96	11.7	124	94	53	0	0	0	0	0	0	
JACKSONVILLE	79	54	84	46	67	0	.0	.6	.0	2.2	49	9.6	84	83	44	0	0	0	0	0	0	
KEY WEST	83	73	86	65	78	2	.0	.4	.0	.3	16	4.9	83	93	61	0	0	0	0	0	0	
MIAMI	84	71	87	65	77	3	.0	.5	.0	1.9	63	11.2	156	86	50	0	0	0	0	0	0	
ORLANDO	82	61	87	56	72	2	.0	.4	.0	1.2	32	8.8	97	95	52	0	0	0	0	0	0	
TALLAHASSEE	79	50	82	37	64	0	1.3	.3	.7	13.1	175	24.0	135	92	46	0	0	0	0	0	0	
TAMPA	83	60	86	53	71	2	.1	.3	.1	.7	21	4.8	57	93	53	0	0	0	0	0	0	
WEST PALM BEACH	83	68	87	62	75	2	.6	.1	.5	3.2	88	12.4	137	87	54	0	0	0	0	0	0	
GA ATLANTA	71	48	77	41	60	0	.7	.4	.6	6.5	90	15.3	92	92	47	0	0	0	0	0	0	
AUGUSTA	76	47	80	40	62	1	.1	.7	.1	6.5	114	14.7	104	94	42	0	0	0	0	0	0	
MACON	75	49	81	40	62	0	.3	.6	.2	6.4	108	14.7	97	94	43	0	0	0	0	0	0	
SAVANNAH	77	54	83	46	66	2	.0	.7	.0	3.8	80	9.2	80	90	42	0	0	0	0	0	0	
HI HILO	79	66	83	63	73	0	3.1	.7	1.5	21.6	116	57.5	148	90	67	0	0	0	0	0	0	
HONOLULU	83	70	84	67	76	1	.0	.4	.0	3.2	118	10.7	126	80	55	0	0	0	0	0	0	
KAHULUI	82	66	84	61	74	0	.1	.4	.1	4.3	127	6.6	63	86	60	0	0	0	0	0	0	
LIHUE	79	71	80	68	75	2	.2	.6	.2	3.6	68	14.3	99	83	71	0	0	0	0	0	0	
ID BOISE	56	36	62	28	46	0	.5	.1	.3	.7	40	2.9	69	80	30	0	0	1	3	0	0	
LEWISTON	56	41	65	37	49	0	.3	.1	.1	.6	45	2.3	63	76	37	0	0	0	0	0	0	
POCATELLO	51	30	56	20	41	-2	.2	.1	.1	.4	24	2.3	64	83	35	0	0	3	4	0	0	
IL CHICAGO	54	33	67	21	43	-2	.2	.1	.4	.2	29	5.7	86	78	36	0	0	3	1	0	0	
MOLINE	57	32	66	18	44	-2	.0	.8	.0	.6	15	4.3	63	76	29	0	0	3	0	0	0	
PEORIA	56	33	65	22	44	-3	.4	.4	.4	1.2	30	4.1	59	77	37	0	0	3	2	0	0	
QUINCY	56	34	66	26	45	-4	.6	.3	.5	1.3	31	2.0	28	75	39	0	0	4	2	1	0	
ROCKFORD	54	30	64	19	42	-2	.0	.8	.0	1.2	33	5.2	88	79	29	0	0	5	0	0	0	
SPRINGFIELD	55	33	65	23	44	-5	.7	.1	.5	2.4	56	4.6	60	86	43	0	0	4	3	0	0	
IN EVANSVILLE	59	36	70	27	47	-8	1.4	.4	.5	3.3	53	8.8	70	92	48	0	0	4	4	0	0	
FORT WAYNE	52	30	68	13	41	-4	2.1	.3	.8	3.8	97	7.3	95	94	56	0	0	5	4	2	0	
INDIANAPOLIS	54	33	65	22	44	-5	1.8	.0	.6	2.8	56	6.8	70	91	53	0	0	5	4	1	0	
SOUTH BEND	51	32	68	24	42	-4	.2	.7	.1	1.1	25	5.0	59	86	44	0	0	5	3	0	0	
IA DES MOINES	56	31	71	22	44	-3	.0	.7	.0	.2	6	3.1	61	69	30	0	0	4	1	0	0	
SIOUX CITY	56	26	67	16	41	-5	.1	.4	.0	.1	4	1.9	48	75	28	0	0	6	2	0	0	
WATERLOO	53	28	64	20	40	-4	.5	.2	.3	.6	19	2.8	55	87	36	0	0	4	2	0	0	
KS CONCORDIA	59	31	79	16	45	-4	.3	.2	.3	.4	14	1.2	29	79	30	0	0	4	1	0	0	
DODGE CITY	60	31	79	15	45	-6	.4	.0	.4	.9	43	1.7	54	83	38	0	0	3	2	0	0	
GOODLAND	60	27	73	17	43	-3	1.6	1.4	1.6	1.9	131	2.3	105	85	33	0	0	6	1	1	1	
TOPEKA	59	35	73	25	47	-5	.8	.2	.7	1.2	35	2.4	46	81	39	0	0	4	2	1	1	
WICHITA	59	36	72	27	48	-7	.9	.3	.8	1.3	38	1.3	24	80	44	0	0	4	2	1	1	
KY BOWLING GREEN	63	37	73	30	50	-4	1.0	.1	.5	8.3	129	20.1	139	91	49	0	0	3	3	0	0	
LEXINGTON	61	36	71	27	48	-4	1.1	.2	.8	8.0	143	16.9	145	85	44	0	0	3	3	1	1	
LOUISVILLE	63	38	73	29	51	-3	.7	.3	.4	4.6	77	11.6	96	87	44	0	0	2	4	0	0	
LA BATON ROUGE	72	47	80	39	59	-8	2.7	1.5	2.5	6.4	101	16.0	95	99	60	0	0	0	0	0	0	
LAKE CHARLES	72	51	79	40	62	-4	.8	.2	.5	2.8	67	8.1	66	97	55	0	0	0	0	0	0	
NEW ORLEANS	75	48	81	40	62	-5	.6	.5	.6	5.4	86	9.2	53	94	54	0	0	0	0	0	0	
SHREVEPORT	70	44	79	36	57	-6	.8	.1	.8	4.4	86	13.1	97	93	47	0	0	0	0	0	0	

Based on 1961-90 normals.

Weather Data for the Week Ending April 9, 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	TEMP. °F		PRECIP.	
																	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
ME CARIBOU	41	26	48	19	34	0	1.7	1.1	.6	4.1	130	9.2	123	86	58	0	0	6	5	2
PORTLAND	51	33	54	26	42	2	.6	-.4	.3	7.3	149	13.9	118	87	50	0	0	3	4	0
MD BALTIMORE	65	41	74	33	53	3	.7	-.1	.6	9.3	216	18.0	171	84	41	0	0	0	3	1
SALISBURY	66	40	74	28	53	2	.3	-.5	.3	9.2	176	17.8	145	91	41	0	0	2	1	0
MA BOSTON	58	38	63	36	48	3	.4	-.5	.3	7.8	165	16.0	134	84	45	0	0	0	3	0
CHATHAM	49	38	54	35	43	2	1.2	-.4	.7	8.6	174	17.9	142	90	58	0	0	0	2	2
MI ALPENA	48	24	67	18	36	-1	.3	-.2	.2	1.6	56	4.5	80	78	36	0	0	6	2	0
DETROIT	51	32	67	26	41	-2	.7	-.0	.3	3.0	88	7.2	104	82	41	0	0	6	3	0
FLINT	50	28	71	21	39	-3	.3	-.7	.7	1.7	57	4.4	77	79	36	0	0	6	1	0
GRAND RAPIDS	51	29	66	23	40	-2	.1	-.7	.1	1.5	42	5.9	86	72	36	0	0	6	1	0
HOOVERTON LAKE	46	25	59	17	36	-2	.5	-.0	.3	2.1	79	5.4	102	80	38	0	0	6	3	0
LANSING	51	28	69	19	39	-2	.7	-.7	.7	2.0	64	4.9	86	76	35	0	0	6	0	0
MARQUETTE	38	18	48	5	28	-5	.1	-.6	.0	2.3	66	4.5	60	82	50	0	0	6	2	0
MUSKOGON	48	29	58	21	38	-3	.1	-.6	.1	1.5	43	6.8	94	76	42	0	0	5	1	0
SAULT ST. MARIE	39	18	49	8	29	-5	.3	-.2	.3	1.9	63	5.0	70	89	42	0	0	6	1	0
MN ALEXANDRIA	46	25	53	14	36	-2	.3	-.2	.3	.7	36	1.7	47	87	41	0	0	5	1	0
DULUTH	40	24	49	10	32	-3	.3	-.2	.2	1.4	56	3.9	85	82	41	0	0	5	3	0
INT'L FALLS	40	20	52	7	30	-4	.1	-.2	.1	.7	49	1.5	51	81	40	0	0	6	2	0
MINNEAPOLIS	47	27	57	18	37	-5	.2	-.3	.1	.5	20	2.5	56	76	37	0	0	5	2	0
ROCHESTER	44	23	52	9	34	-7	.5	-.1	.3	.8	31	2.7	67	84	44	0	0	5	2	0
MS GREENWOOD	71	45	82	36	58	-4	2.0	-.8	2.0	7.7	104	14.5	87	93	42	0	0	0	2	1
JACKSON	69	44	79	36	56	-5	2.9	1.6	2.7	8.6	112	23.0	128	89	49	0	0	0	3	2
MERIDIAN	72	45	81	37	59	-3	2.4	1.0	1.7	8.7	102	23.4	122	89	49	0	0	0	2	1
MO CAPE GIRARDEAU	57	36	67	25	47	-8	1.6	-.6	1.1	5.9	93	13.4	106	94	50	0	0	2	4	0
COLUMBIA	57	34	69	28	45	-5	1.0	-.2	.5	3.0	74	5.9	80	88	46	0	0	2	3	0
KANSAS CITY	58	35	72	27	46	-5	.8	-.3	.6	1.5	45	3.6	65	77	44	0	0	2	2	0
SAINT LOUIS	58	37	71	29	47	-6	1.1	-.3	.5	2.5	53	6.1	71	84	40	0	0	2	1	0
SPRINGFIELD	60	37	69	28	48	-5	1.2	-.3	.7	4.8	96	9.0	104	86	42	0	0	2	3	2
MT BILLINGS	51	28	61	19	39	-3	.6	-.3	.4	1.4	86	2.1	67	85	42	0	0	5	2	0
GLASGOW	47	26	57	20	37	-3	.3	-.2	.3	.4	81	1.5	126	85	38	0	0	7	2	0
GREAT FALLS	49	30	59	25	40	-1	.5	-.2	.2	.7	45	1.7	58	86	39	0	0	3	5	0
HAVRE	51	27	60	23	39	-1	..	..	..	..	..	..	..	85	35	0	0	5	..	..
HELENA	51	30	59	26	41	0	.6	-.4	..	1.0	99	1.6	77	88	38	0	0	3	5	0
KALISPELL	50	31	61	28	40	0	1.0	-.8	.7	1.1	87	3.1	80	93	48	0	0	7	4	1
MILES CITY	53	30	65	23	42	-1	.1	-.1	.1	.5	56	1.6	83	90	37	0	0	6	1	0
MISSOULA	52	34	62	31	43	2	.6	-.4	.3	1.1	89	1.9	59	95	41	0	0	2	4	0
NE GRAND ISLAND	57	25	69	10	41	-6	.0	-.5	.0	.7	2	1.9	52	73	28	0	0	6	0	0
LINCOLN	57	28	72	15	43	-5	.7	-.6	.7	.1	2	.9	23	73	27	0	0	4	0	0
NORFOLK	57	26	69	13	41	-4	.7	-.4	.7	.1	3	1.7	45	74	28	0	0	6	1	0
NORTH PLATTE	59	25	75	14	42	-3	.1	-.3	.1	.1	6	.9	37	81	28	0	0	6	1	0
OMAHA	58	28	71	20	43	-4	.0	-.6	.0	.0	0	1.5	36	..	..	0	0	4	0	0
SCOTTSBLUFF	58	25	71	23	42	-1	.4	-.1	.3	1.1	73	2.4	101	87	28	0	0	7	2	0
VALENTINE	59	24	75	16	41	-4	.1	-.3	.0	.3	17	1.1	37	80	26	0	0	6	2	0
NV ELY	49	23	57	10	36	-3	1.3	1.1	.4	2.3	183	3.9	150	88	36	0	0	7	4	0
LAS VEGAS	73	54	79	50	64	3	.7	-.1	.7	.1	26	.7	45	32	16	0	0	0	0	0
RENO	58	37	68	31	48	1	.7	-.1	.7	1.0	122	1.7	58	64	29	0	0	2	1	0
WINNEMOCCA	55	31	63	18	43	-1	.5	-.3	.3	.9	90	2.2	90	83	28	0	0	4	3	0
NH CONCORD	57	30	65	22	43	3	.5	-.2	.2	5.5	154	9.8	114	93	33	0	0	4	3	0
NJ ATLANTIC CITY	58	37	64	27	48	1	.3	-.6	.2	9.7	207	17.4	155	88	46	0	0	2	4	0
NM ALBUQUERQUE	67	42	73	30	54	2	.7	-.1	.7	.6	88	.9	54	51	14	0	0	1	0	0
CLOVIS	69	37	76	22	53	-1	.7	-.1	.7	.9	115	1.1	68	63	17	0	0	3	0	0
ROSWELL	75	38	82	25	57	-1	.7	-.1	.7	.7	143	.7	54	59	15	0	0	1	0	0
NY ALBANY	53	30	65	25	42	-1	.9	-.2	.4	5.2	136	10.2	121	83	41	0	0	4	4	0
BINGHAMTON	50	30	60	24	40	-1	.6	-.1	.2	5.7	153	11.0	130	79	47	0	0	5	4	0
BUFFALO	51	32	64	26	42	1	1.9	1.2	.9	4.5	127	8.8	103	83	47	0	0	5	4	1
NEW YORK	58	40	60	36	49	1	.5	-.4	.3	6.7	142	14.3	135	81	44	0	0	0	3	0
ROCHESTER	52	30	63	25	41	-1	1.5	.9	.8	3.2	105	7.5	104	90	49	0	0	6	4	1
SYRACUSE	50	30	60	25	40	-2	1.2	.5	.7	6.4	171	11.7	142	89	49	0	0	6	5	1
NC ASHEVILLE	63	37	69	26	50	-3	.6	-.3	.3	8.2	118	18.6	122	92	44	0	0	1	2	0
CHARLOTTE	70	47	74	38	58	1	.2	-.5	.2	5.1	97	11.3	88	77	40	0	0	0	2	0
GREENSBORO	67	43	72	32	55	0	.1	-.5	.1	5.2	114	11.3	102	82	39	0	0	1	1	0
HATTERAS	70	51	78	47	60	4	.7	-.8	.7	7.1	132	17.5	118	91	51	0	0	0	0	0
NEW BERN	74	47	82	40	60	1	.7	-.7	.7	5.6	116	13.4	100	89	41	0	0	0	0	0
RALEIGH	71	45	79	35	58	2	.2	-.5	.1	6.1	133	12.6	107	91	41	0	0	0	4	0
WILMINGTON	75	50	83	43	62	4	.7	-.7	.7	8.3	153	18.6	128	93	38	0	0	0	0	0
ND BISMARCK	52	24	60	15	38	-1	.1	-.2	.1	.8	68	1.8	88	96	41	0	0	6	2	0
FARGO	49	27	54	16	38	0	.1	-.2	.1	1.1	73	2.4	91	79	44	0	0	5	2	0
GRAND FORKS	45	26	54	18	36	-1	.1	-.2	.1	.5	36	1.7	70	89	44	0	0	6	2	0
WILLISTON	48	23	58	15	36	-3	.7	-.4	.7	.9	89	2.7	139	88	38	0	0	6	1	1
OH AKRON-CANTON	53	31	61	22	42	-4	1.6	.9	.7	5.0	118	10.2	118	87	46	0	0	5	4	0
CINCINNATI	58	35	68	26	46	-4	1.0	.1	.5	3.2	60	8.1	76	84	49	0	0	4	4	0
CLEVELAND	53	30	66	23	42	-3	1.5	.8	.8	2.8	74	6.2	78	86	43	0	0	5	5	1
COLUMBUS	57	32	62	25	45	-1	1.4	.6	.7	3.4	82	8.8	105	91	45	0	0	5	4	1
DAYTON	54	33	64	27	43	-5	1.6	.6	.6	3.6	81	8.7	99	89	53	0	0	5	4	2

Based on 1961-90 normals.

Weather Data for the Week Ending April 9, 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	80 AND ABOVE	32 AND BELOW	.01 INCH OR MORE
													.50 INCH OR MORE							.50 INCH OR MORE
TOLEDO	56	29	64	21	39	-5	1.3	.7	.5	3.4	97	8.2	116	93	52	0	0	0	0	0
YOUNGSTOWN	52	30	61	20	41	-3	1.5	.8	.6	5.4	134	9.7	118	92	48	0	0	0	0	0
OK OKLAHOMA CITY	67	40	79	30	53	-4	.4	.4	.4	3.2	95	6.0	99	81	42	0	0	0	0	0
TULSA	65	40	72	31	52	-6	.6	.3	.3	4.7	105	7.6	95	83	64	0	0	0	0	0
OR ASTORIA	53	44	55	42	49	-2	2.9	1.7	.9	9.4	108	27.6	105	94	63	0	0	0	0	0
BURNS	50	27	54	17	38	-2	.2	.1	.1	.5	44	1.3	44	84	36	0	0	0	0	0
MEDFORD	59	38	64	32	48	-2	.3	.1	.1	1.5	68	3.8	55	90	32	0	0	0	0	0
PENDLETON	59	40	64	37	49	1	.4	.1	.3	1.0	63	4.2	102	70	32	0	0	0	0	0
PORTLAND	56	44	60	40	50	1	1.1	.4	.6	2.9	66	11.4	84	88	45	0	0	0	0	0
SALEM	57	43	60	33	50	2	1.7	1.0	.7	4.2	84	12.7	82	88	45	0	0	0	0	0
PA ALLENTOWN	61	36	68	30	48	-2	.7	.1	.5	6.6	154	15.5	149	88	45	0	0	0	0	0
ERIE	51	31	65	24	41	-2	1.7	1.0	.8	4.7	119	9.6	102	92	47	0	0	0	0	0
HARRISBURG	61	41	71	31	51	3	.6	.1	.4	6.8	162	15.6	156	82	38	0	0	0	0	0
PHILADELPHIA	64	43	71	35	54	6	.8	.0	.7	7.3	159	14.9	134	81	37	0	0	0	0	0
PITTSBURGH	57	32	68	20	44	-2	.8	.0	.5	5.8	132	11.8	127	80	33	0	0	0	0	0
SCRANTON	57	34	66	28	45	1	1.2	.5	.4	5.0	148	9.3	121	83	37	0	0	0	0	0
RI PROVIDENCE	59	35	63	30	47	3	.0	.9	.1	7.3	138	14.9	117	84	43	0	0	0	0	0
SC CHARLESTON	76	53	82	46	65	3	.0	.7	.0	.0	.0	.0	109	84	40	0	0	0	0	0
COLUMBIA	77	50	80	42	63	3	.0	.8	.0	4.3	82	13.0	77	82	35	0	0	0	0	0
FLORENCE	76	49	81	42	63	3	.3	.4	.4	4.5	89	11.4	97	88	40	0	0	0	0	0
GREENVILLE	67	43	72	33	55	-2	.3	.4	.6	4.9	73	12.6	83	90	35	0	0	0	0	0
SD ABERDEEN	54	29	64	18	41	-3	.3	.3	.3	.7	47	2.0	72	85	35	0	0	0	0	0
HURON	54	27	64	17	41	-1	.1	.3	.3	.5	20	2.1	63	82	36	0	0	0	0	0
RAPID CITY	57	25	69	20	41	-1	.4	.2	.3	.5	20	2.1	63	82	35	0	0	0	0	0
SIOUX FALLS	52	25	63	13	39	-4	.4	.3	.2	.7	48	1.9	77	85	35	0	0	0	0	0
TN CHATTANOOGA	65	41	76	36	53	-3	.3	.3	.2	.5	21	2.1	60	83	40	0	0	0	0	0
KNOXVILLE	65	39	75	32	52	-3	1.6	.5	1.1	12.6	170	26.4	154	90	47	0	0	0	0	0
MEMPHIS	67	45	78	35	56	-4	1.6	.7	.7	13.4	212	29.3	202	94	48	0	0	0	0	0
NASHVILLE	64	40	75	34	52	-5	1.6	.3	1.3	8.4	119	18.3	121	86	43	0	0	0	0	0
TX ABILENE	75	45	89	29	60	-3	.0	.6	1.2	9.2	149	19.7	145	84	43	0	0	0	0	0
ANGARILLO	68	33	77	17	50	-4	.0	.4	.4	.1	4	1.9	48	74	27	0	0	0	0	0
AUSTIN	76	50	83	40	63	-4	.0	.2	.0	1.2	103	2.3	102	71	22	0	0	0	0	0
BEADWENT	73	54	79	42	63	-3	1.2	.3	1.2	5.9	78	5.5	86	81	43	0	0	0	0	0
BROWNSVILLE	80	60	84	46	70	-3	1.6	.9	1.2	2.4	130	13.7	111	95	56	0	0	0	0	0
CORPUS CHRISTI	76	57	83	46	67	-4	.6	.3	.6	1.9	219	4.3	124	95	49	0	0	0	0	0
DEL RIO	79	55	90	44	67	-1	.0	.3	.6	4.1	309	6.1	122	92	49	0	0	0	0	0
EL PASO	79	51	83	40	65	-4	.0	.4	.0	2.5	152	5.2	126	72	38	1	0	0	0	0
FORT WORTH	72	46	83	35	59	-4	.0	.1	.0	.4	103	.6	53	31	13	0	0	0	0	0
GALVESTON	70	59	75	47	65	-3	.0	.8	.0	2.1	52	5.5	67	82	43	0	0	0	0	0
HOUSTON	74	50	82	40	62	-4	.3	.2	.3	1.9	66	4.5	53	83	63	0	0	0	0	0
LUBBOCK	75	39	84	25	57	-1	.0	.2	.0	2.9	70	7.7	68	96	53	0	0	0	0	0
MIDLAND	78	41	89	25	59	-3	.0	.1	.0	.2	16	.7	35	78	13	0	0	0	0	0
SAN ANGELO	77	47	91	33	63	-2	.0	.3	.0	.0	0	1.1	67	78	19	0	0	0	0	0
SAN ANTONIO	78	52	86	40	65	-2	.0	.4	.0	.3	3	2.1	66	74	27	1	0	0	0	0
VICTORIA	75	54	82	41	64	-3	.3	.2	.3	5.1	243	7.3	129	83	41	0	0	0	0	0
WACO	72	46	80	36	59	-5	.0	.6	.0	2.5	79	7.2	104	88	47	0	0	0	0	0
WICHITA FALLS	72	40	89	29	56	-4	.0	.6	.0	1.1	33	2.9	45	79	33	0	0	0	0	0
UT CEDAR CITY	55	33	66	25	44	-1	.4	.1	.3	1.6	95	3.0	90	78	31	0	0	0	0	0
SALT LAKE CITY	54	36	69	31	45	-2	1.4	.9	.7	2.9	115	5.1	104	81	35	0	0	0	0	0
VT BURLINGTON	47	26	57	12	36	-3	1.8	1.2	.7	4.7	156	8.1	126	94	56	0	0	0	0	0
VA NORFOLK	71	47	85	39	59	5	.1	.6	.1	10.5	227	18.2	154	79	39	0	0	0	0	0
RICHMOND	70	42	76	34	56	2	.3	.4	.2	8.2	183	15.7	144	81	18	0	0	0	0	0
ROANOKE	67	40	74	29	54	1	.3	.4	.3	6.0	135	15.9	157	74	32	0	0	0	0	0
WA QUILLAYUTE	51	43	55	38	47	2	4.4	2.4	1.6	15.0	106	42.8	104	96	50	0	0	0	0	0
SEATTLE-TACOMA	55	43	59	42	49	2	1.7	1.1	.6	4.9	113	11.9	87	87	50	0	0	0	0	0
SPOKANE	51	35	56	30	43	0	.7	.4	.4	.7	37	2.9	55	88	50	0	0	0	0	0
YAKIMA	59	34	63	26	47	0	.7	.5	.4	.7	82	2.1	75	81	38	0	0	0	0	0
WV BECKLEY	60	36	68	23	48	0	.4	.4	.3	8.1	184	17.9	175	83	35	0	0	0	0	0
CHARLESTON	67	37	79	27	52	0	.9	.2	.7	8.7	187	20.6	195	83	28	0	0	0	0	0
HUNTINGTON	65	37	73	28	51	1	.7	.1	.5	9.3	204	19.2	180	80	31	0	0	0	0	0
PARKERSBURG	62	35	72	26	48	-2	.9	.1	.7	5.9	120	17.2	157	89	31	0	0	0	0	0
WI GREEN BAY	44	26	52	19	35	-5	.9	.3	.8	2.0	74	4.6	93	86	51	0	0	0	0	0
LACROSSE	47	29	53	19	38	-5	.9	.3	.8	.0	.0	.0	.0	83	37	0	0	0	0	0
MADISON	51	28	63	19	40	-3	.3	.4	.2	.7	24	4.9	94	75	33	0	0	0	0	0
MILWAUKEE	49	31	66	24	40	-1	.1	.8	.1	1.3	34	7.0	103	73	39	0	0	0	0	0
WAUSAU	43	24	48	15	34	-6	.3	.3	.2	.8	30	2.3	51	83	37	0	0	0	0	0
WY CASPER	54	26	66	19	40	0	.2	.1	.1	.7	55	2.2	88	80	32	0	0	0	0	0
CHEYENNE	49	25	63	19	37	-2	.2	.0	.2	.8	58	2.3	109	85	31	0	0	0	0	0
LANDER	53	26	63	21	40	-1	.3	.2	.2	1.5	89	2.8	103	77	28	0	0	0	0	0
SHERIDAN	51	23	63	14	37	-4	.6	.3	.5	1.4	101	4.4	156	93	41	0	0	0	0	0

Based on 1961-90 normals.

March Weather in Historical Perspective

Preliminary data indicate that March 1994 was the 13th warmest and 4th driest such month during the 100-year period of record (table 1, fig. 1). The nationally averaged temperature of 45.1°F was 2.7°F above normal (fig. 2). Among the nine climatic divisions, only the Northeast region had an average temperature in the cold half of the March distribution. Farther west, near-record March warmth enveloped the West (10th warmest) and West North Central regions (9th warmest).

In addition to the warmth, the West North Central Region experienced its driest March on record. Near-record dryness covered the Northwest (ninth driest) and East North Central regions (fourth driest), which includes a portion of the Corn Belt (fig. 3). Broken down further, 12 States registered a 10th driest, or drier, March. Among them, four States (ID, MT, NE, and WY) had their driest March ever (fig. 4). In contrast, nine States from Tennessee to Connecticut were within the wettest tenth of the rankings.

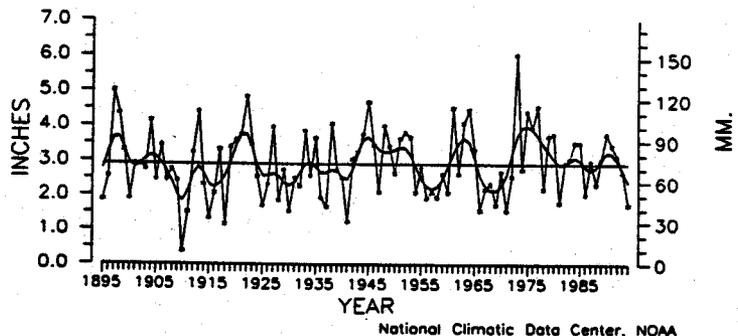
Table 1

Temperature and precipitation rankings for March 1994, based on the period 1895-1994. 1 = Driest/Coldest, 100 = Wettest/Hottest.

Region	Precipitation	Temperature
Northeast	89	44
East North Central	4	77
Central	45	56
Southeast	73	66
West North Central	1	92
South	40	67
Southwest	22	89
Northwest	9	88
West	15	91
National	4	88

Figure 3

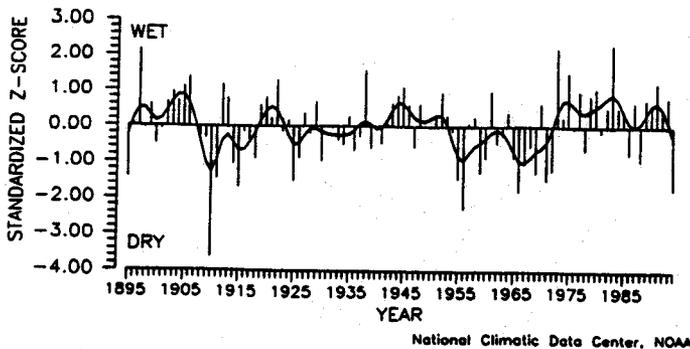
PRIMARY CORN AND SOYBEAN BELT
PRECIPITATION
MARCH, 1895-1994



National Climatic Data Center, NOAA
THICK SMOOTH CURVE IS 3-POINT BINOMIAL FILTER.

Figure 1

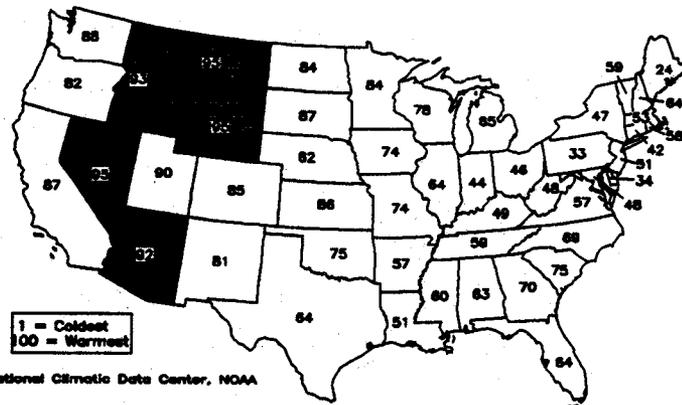
U.S. NATIONAL NORMALIZED PRECIPITATION INDEX
MARCH, 1895-1994



National Climatic Data Center, NOAA
THICK SMOOTH CURVE IS 3-POINT BINOMIAL FILTER.

Figure 4

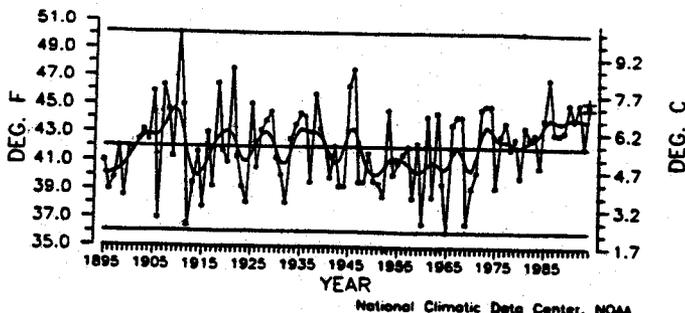
MARCH 1994 STATEWIDE TEMPERATURE RANKS



Temperature Ranks for the contiguous United States. Each state is ranked based on its data from 1895-1994. States having a rank of top ten coldest (rank 1-10) or top ten warmest (rank 91-100) are shaded.

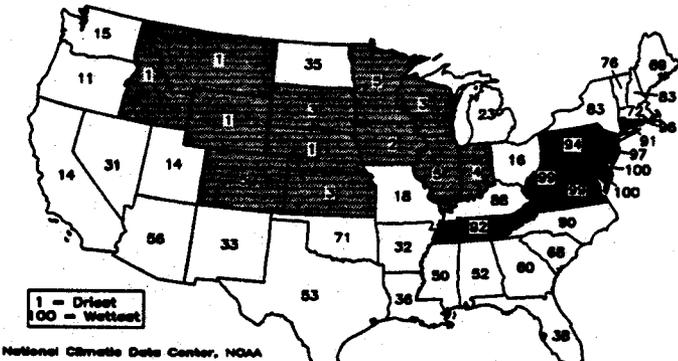
Figure 2

U.S. NATIONAL TEMPERATURE
MARCH, 1895-1994



National Climatic Data Center, NOAA
STRAIGHT HORIZONTAL LINES ARE: BASE-OF-THE-SCALE (TOP), LONG-TERM MEANS (MIDDLE), MINIMUM VALUE (BOTTOM).
THICK SMOOTH CURVE IS 3-POINT BINOMIAL FILTER.
CONFIDENCE INTERVAL FOR CURRENT YEAR IS INDICATED BY *.

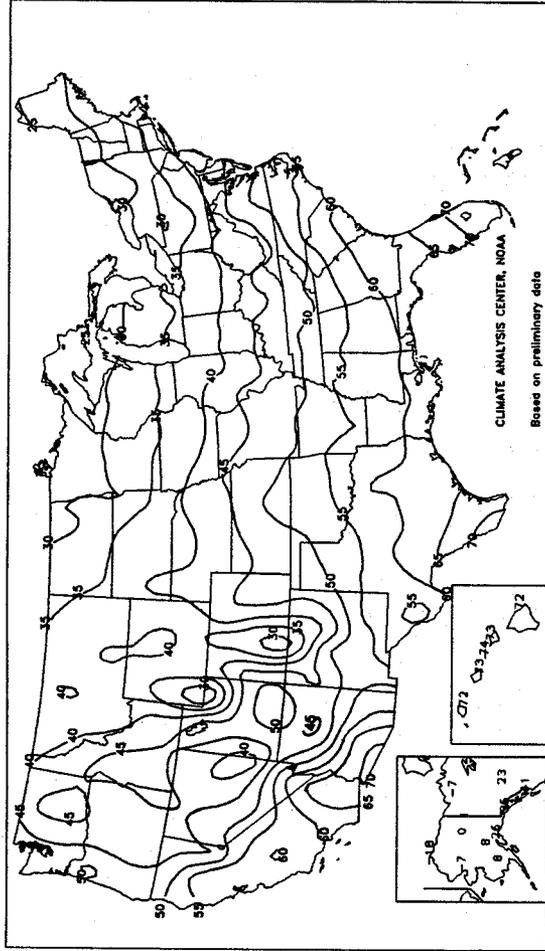
MARCH 1994 STATEWIDE PRECIPITATION RANKS



Precipitation Ranks for the contiguous United States. Each state is ranked based on its data from 1895-1994. States having a rank of top ten driest (rank 1-10) or top ten wettest (rank 91-100) are shaded.

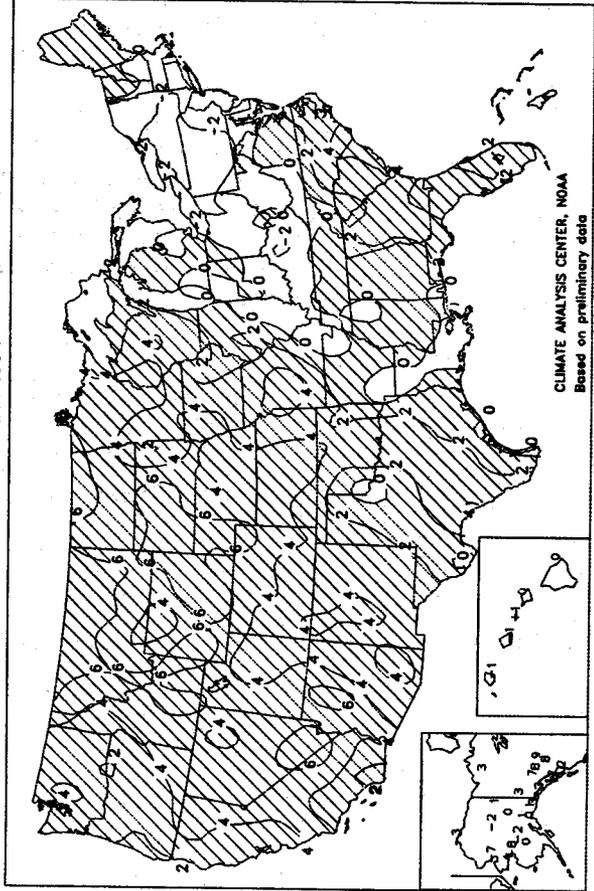
AVERAGE TEMPERATURE(°F)

MAR 1994



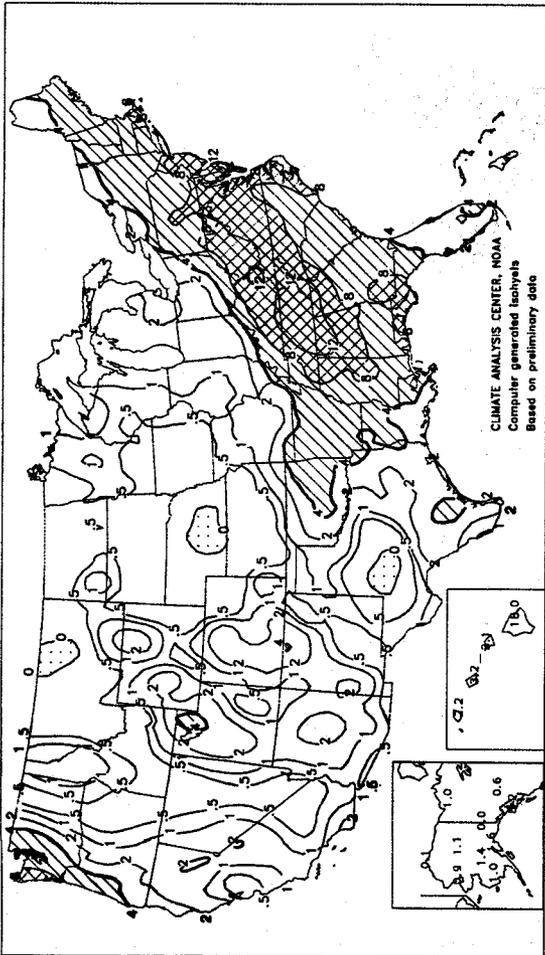
Departure of Average Temperature from Normal(°F)

MAR 1994



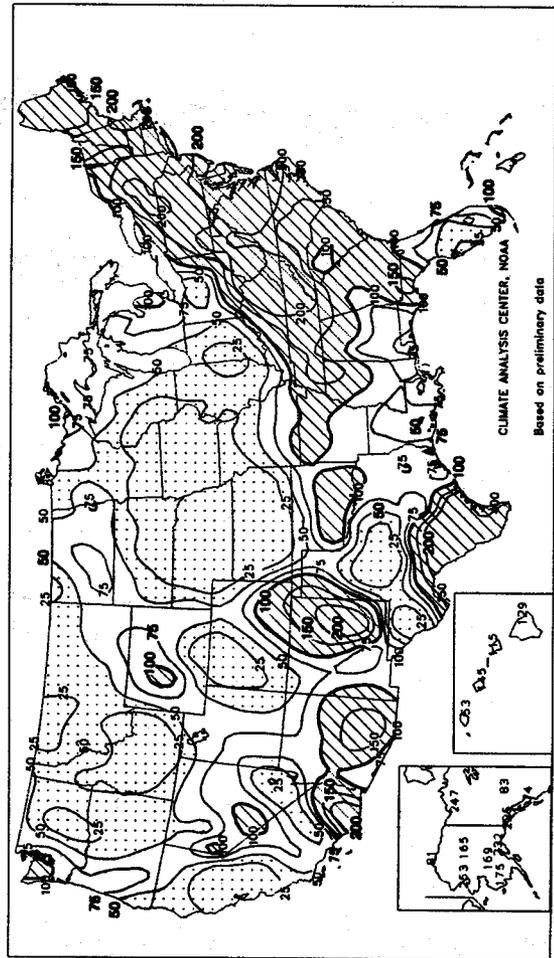
TOTAL PRECIPITATION (inches)

MAR 1994



PERCENT OF NORMAL PRECIPITATION

MAR 1994



Rain in the Central Plains Reverses Long-Term Trend

The arrival of heavy rainfall across Kansas on April 9 signaled a change in the dry weather pattern that has been in place since last autumn. Topsoil moisture remained 55 percent short to very short in Kansas at week's end, but should continue to improve with additional rain and snow on April 10-12. A week ago, on April 2, Kansas reported that topsoil moisture was 74 percent short to very short. Accumulated 6-month precipitation deficits (October 1, 1993 to April 7, 1994) ranged from 5 to 11 inches from north-central Oklahoma to eastern Iowa, including 10.5 inches in Chanute, KS and 7.2 inches in Ottumwa, IA.

The central Plains and Midwestern dryness are part of a large-scale regime that has affected much of the United States north and west of a line from Michigan to central Texas (fig. 1). Especially hard hit have been areas of the West that depend on winter precipitation for summer water supplies, such as the Sierra Nevada, Cascades, and Colorado River watersheds. In the southern High Plains, acute dryness continues to plague west-central Texas.

Only 5 of the 18 river basins in the United States (as defined by the U.S. Water Resources Council) received above-normal precipitation between October 1993 and March 1994 (table 1). Among those, the Mid-Atlantic Basin (6th wettest October-March) and the Tennessee Basin (15th wettest) have experienced considerable minor to moderate flash and river flooding since late January. Six-month moisture surpluses (October 1, 1993 to April 7, 1994) ranged from 5 to 18 inches from the Tennessee Valley to the Middle Atlantic States. Selected surpluses include 17.5 inches in Knoxville, TN, 17.4 inches in Jackson, KY, and 10.9 inches in Washington, DC.

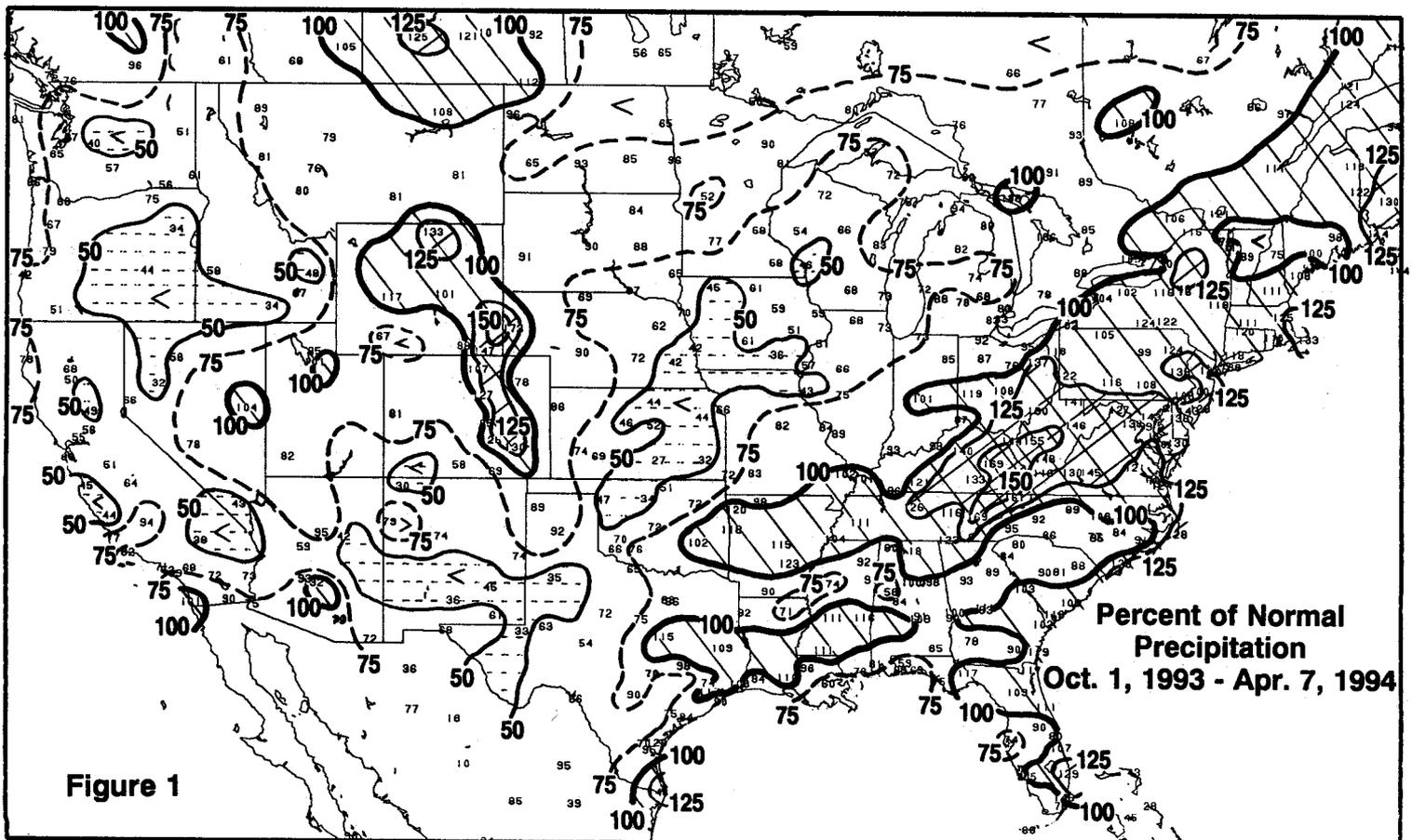
Table 1

River Basin Precipitation Rankings
(Rankings for 1895-1994; 1=Driest, 99=Wettest)
Oct. 1993 to Mar. 1994

Severe to Extreme Dryness/Wetness
(Long-Term Palmer Index < -3.0 or > +3.0)
March 1994

River Basin	Precip. Rank	% Area Dry	% Area Wet
1. Pacific Northwest	2	55.5	0.0
2. California	7	4.2	0.0
3. Great Basin	13	0.0	0.0
4. Lower Colorado	43	0.0	11.5
5. Upper Colorado	8	0.0	0.0
6. Rio Grande	16	0.0	7.3
7. Texas Gulf Coast	50	0.0	0.0
8. Arkansas-White-Red	35	0.0	5.1
9. Lower Mississippi	52	0.0	0.0
10. Missouri	9	0.8	50.4
11. Souris-Red-Rainy	24	0.0	51.4
12. Upper Mississippi	16	0.0	60.4
13. Great Lakes	24	0.0	8.5
14. Tennessee	85	0.0	0.0
15. Ohio	73	0.0	24.5
16. S. Atlantic-Gulf	68	0.0	0.0
17. Mid-Atlantic	94	0.0	38.6
18. New England	68	0.0	5.5

Note: Statistics provided by NOAA/National Climatic Data Center. For a map of the 18 river basins (as defined by the U.S. Water Resources Council), see the August 10, 1993 issue of the *WWCB* (Vol. 80, No. 32, page 10), or call (202) 720-1444.



National Agricultural Summary

April 4 - 10, 1994

HIGHLIGHTS: Fieldwork slowed across the Nation as rains made fields too wet to prepare for planting. Precipitation over the central Great Plains provided much-needed moisture for small grains. Rain, on top of saturated fields, caused some flooding in the middle Mississippi and Tennessee Valleys, and put field activities behind schedule. Cool weather hindered the growth of the fall seeded crops in the Great Plains and central Mississippi Valley. Rain, mixed with snow, in the Great Lakes region made fields too waterlogged to work. Despite the adverse conditions, crop progress was on, or ahead, of the 5-year average for all commodities except for spring wheat.

SMALL GRAINS: Cool weather slowed winter wheat growth in the central United States. Both Texas and Kansas had reports of some freeze damage from the cold front that pushed through early in the week. In Kansas, some wheat streak mosaic was discovered, but disease and insect problems remained light. Kansas wheat jointing was reported at 25 percent(%), which matches the average. Winter wheat condition was rated good in Montana, where 22% of the wheat was dormant, 65% was greening, and 13% was growing. Texas' small grains, in some parts of the State, showed signs of stress from lack of moisture. Texas wheat producers applied fungicides to control leaf rust in the Blacklands. The percentage of winter wheat headed in Texas was 3 points ahead of normal. Winter wheat headed was 3% in the 19 largest producing States.

Spring wheat seeding was 2% complete, 5 points below the average. Idaho was 60% complete, 30 points ahead of normal. South Dakota reported some field activity, but most wheat producers were waiting for warmer, dryer soil.

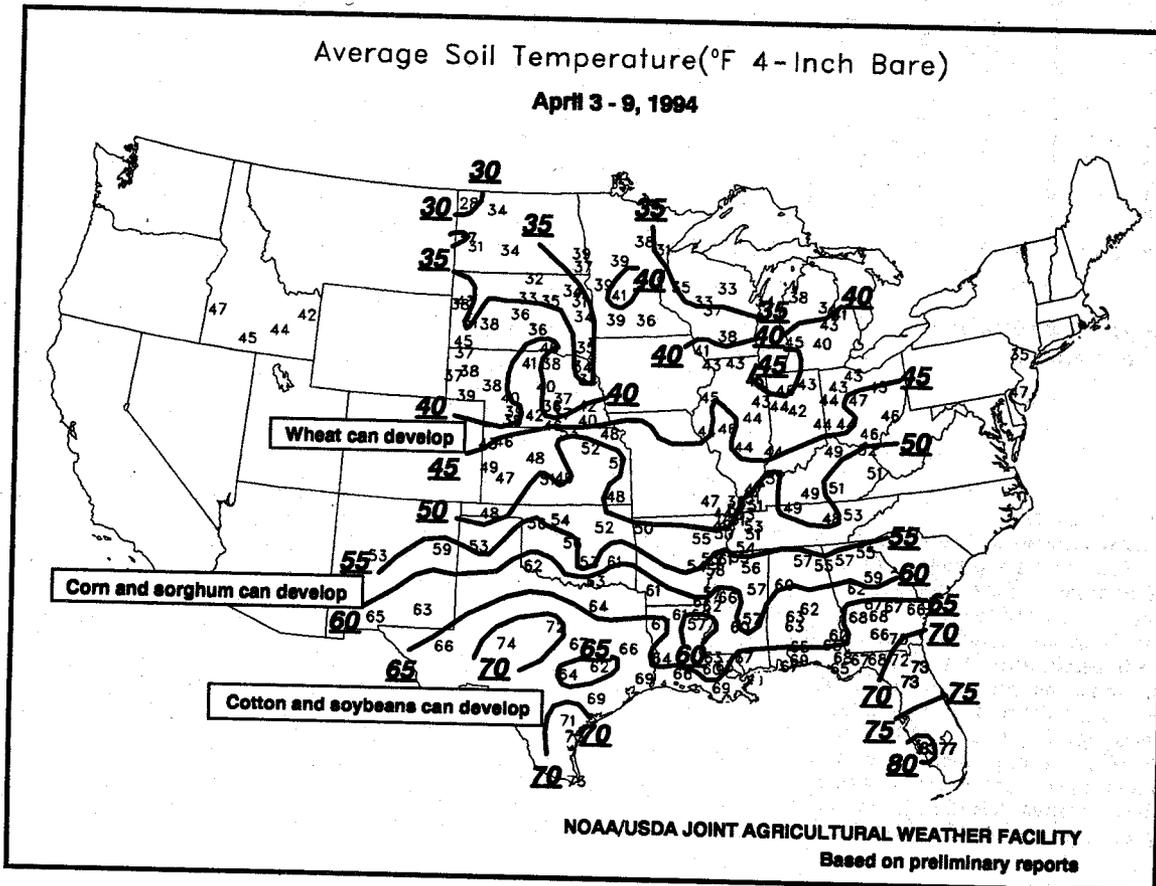
FIELD CROPS: Corn planted was 3% complete for the Nation, matching the average. Planting was more than half finished for Texas and Georgia. South-central Texas reported

some hail damage to corn fields. Existing stands, damaged by the cold weather, may need replanting in the Texas Blacklands. Georgia corn was 19% fair, 74% good, and 7% excellent, with some reports of wind damage.

Cotton planting was 9% complete, 1 point ahead of the average. Texas and Georgia were the only States ahead of normal out of the six States reporting progress. The growth of emerged plants in the Texas Blacklands was slowed due to the low temperatures. Some California cotton fields planted earlier in the season have emerged.

Sorghum planting was 19% complete, 4 points ahead of normal. Planting was underway in 5 of the 12 largest producing States. Planting was ahead of schedule in Arkansas, Texas, and Mississippi, with Texas more than half complete. Sorghum in Mississippi is 13% emerged, 10 points above average.

Rice seeding was 16% complete, 3 points ahead of schedule. Four of the five major rice producing States reported progress. California rice fields were prepared for planting where soil conditions allowed. In Louisiana, 21% of the rice crop emerged slightly ahead of schedule.



Crop Progress for the Week Ending April 10, 1994

COTTON (Percent Planted)

	Current	Last Wk	1993	Avg.
AL	2	0	2	4
AZ	38	28	24	44
AR	0	0	0	0
CA	10	5	10	24
GA	2	0	1	1
LA	0	0	0	1
MS	0	0	0	1
MO	0	0	0	0
NM	10	0	20	20
NC	0	0	0	0
OK	0	0	0	0
SC	0	0	0	0
TN	0	0	0	0
TX	16	13	12	11
14 States	9	7	7	8

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

SPRING WHEAT (Percent Planted)

	Current	Last Wk	1993	Avg.
ID	60	40	4	29
MN	1	0	0	5
MT	1	0	1	5
ND	0	0	0	3
SD	0	0	0	24
5 States	2	1	0	7

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

CORN (Percent Planted)

	Current	Last Wk	1993	Avg.
CO	0	0	0	0
GA	84	70	45	68
IL	0	0	0	0
IN	0	0	0	1
IA	0	0	0	0
KS	5	3	0	5
KY	1	1	1	2
MI	0	0	0	0
MN	0	0	0	2
MO	6	3	2	6
NE	0	0	0	0
NC	20	0	5	15
OH	0	0	0	0
PA	0	0	0	0
SD	0	0	0	0
TX	56	48	40	54
WI	0	0	0	0
17 States	3	2	2	3

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

RICE (Percent Planted)

	Current	Last Wk	1993	Avg.
AR	5	2	1	4
CA	0	0	0	0
LA	40	31	26	35
MS	14	6	3	8
TX	47	21	14	37
5 States	16	10	7	13

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

Crop Condition (Percent)

for the Week Ending April 10, 1994

WINTER WHEAT (Percent Headed)

	Current	Last Wk	1993	Avg.
AR	1	0	4	4
CA	45	15	50	45
CO	0	0	0	0
GA	43	16	10	31
ID	0	0	0	0
IL	0	0	0	1
IN	0	0	0	0
KS	0	0	0	0
MI	0	0	0	0
MO	0	0	0	0
MT	0	0	0	0
NE	0	0	0	0
NC	8	0	1	6
OH	0	0	0	0
OK	1	1	0	1
OR	0	0	0	0
SD	0	0	0	0
TX	11	7	4	8
WA	0	0	0	0
19 States	3	1	1	2

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

GRAIN SORGHUM (Percent Planted)

	Current	Last Wk	1993	Avg.
AR	11	2	5	5
CO	0	0	0	0
IL	0	0	0	0
KS	0	0	0	0
LA	5	3	2	13
MS	17	14	3	9
MO	0	0	0	0
NE	0	0	0	0
NM	0	0	0	2
OK	1	1	1	1
SD	0	0	0	0
TX	57	50	41	45
12 States	19	17	14	15

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

WINTER WHEAT

State	VP	P	F	G	EX
AR	0	0	54	38	8
CA	0	0	5	70	25
CO	1	4	28	57	10
GA	0	0	9	78	13
ID	0	2	29	62	7
IL	3	17	48	30	2
IN	0	10	50	40	0
KS	0	3	48	47	2
MI	5	10	25	45	15
MO	4	13	60	21	2
MT	0	4	25	55	16
NE	0	0	43	53	4
NC	0	2	19	73	6
OH	1	5	26	56	12
OK	0	6	36	58	0
OR	0	5	29	60	6
SD	0	0	28	70	2
TX	1	20	51	26	2
WA	0	1	45	51	3
19 State	1	6	41	48	4
Prev Week	1	5	40	49	5
Prev Year	0	2	19	61	18

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

(continued from front cover)

eastern Great Lakes States and New England on Wednesday and Thursday, while cold air plunged southward through the Plains. On Wednesday, Fort Wayne, IN experienced its heaviest April snow on record (more than 6 inches). Snowfall in the Northeast on Thursday included 11 inches in Plattsburgh, NY and 7 inches in Burlington, VT. Farther south, more than 2 inches of rain soaked areas from Louisiana to Tennessee. In the Plains, daily record lows at midweek included 29°F in Abilene, TX, 17°F in Amarillo, TX, 13°F in Hill City, KS, and 10°F in Grand Island, NE. A day later, as high pressure spread eastward, daily records were set in locations such as Champaign, IL (16°F) and Hot Springs, AR (28°F). Scattered sub-freezing temperatures spread into the Middle Atlantic States by Friday,

as lows reached 26°F in Asheville, NC and 29°F near Washington (Dulles Airport), DC. Late in the week, strong southerly winds and warm air returned to the Plains in advance of a powerful storm system. Winds gusted to 59 miles per hour at Hill City, KS. Farther north and west, snow spread from the Sierra Nevada to the northern Plains. More than 1.50 inches of precipitation (rain and melted snow) fell at Blue Canyon, CA. Snowfall topped 1 foot at Alta, UT. In Williston, ND, a 3.9-inch snowfall pushed the 1993-94 season into position as the snowiest of this century. On Saturday, areas from Kansas to Ohio received the first of several days of heavy rainfall. One-day totals exceeded 2 inches from southeastern Kansas to southwestern Ohio, causing widespread flash flooding.

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 0.62 to 2.85 in. north; 0.54 to 2.60 in. central; 0.02 to 1.77 in. south. Temperatures 5° below normal to 1° above normal statewide. Lows 30 to 39° north; 29 to 42° central; 33 to 45° south. Highs 76 to 83° north; 81 to 85° central; 80 to 86° south.

Days suitable for fieldwork 3.5. Soil moisture 35% adequate, 65% surplus. Percent acreage prepared 56%, 48% 1993, 54% avg. Corn planted 39%, 33% 1993, 53% avg. Sorghum planted 2%, 2% 1993, 7% avg. Wheat headed 44%, 16% 1993, 34% avg.; turning color 1%, 2% 1993, 4% avg.; 40% fair, 60% good. Pasture 11% poor, 48% fair, 41% good. Livestock 5% poor, 42% fair, 53% good. Primary activities: Spring plowing, planting, general care of livestock, poultry, catfish.

ARIZONA: Temperatures mostly normal; 1° below to 3° above. Extremes 22°; 82° higher elevations; 36°; 94° deserts. Precipitation reported higher elevations; rainfall none to 0.72 in.

Planting increasing for cotton; to date 38%, 24% 1993, 44% avg. Small grain jointing 100%, 98% 1993, 98% avg.; heading 81%, 70% 1993, 76% avg.; turning color 15%, 8% 1993, 12% avg. Condition good. Alfalfa condition remains mostly good. Harvest progress moderate to active, sheepling off activities continue light; stand renovation, new stand establishment mostly normal. Weed, insect, disease infestations moderate. Citrus harvest continues. Grapefruit, lemons, valencia oranges available central, western groves. Winter vegetable harvest steady. Available from western, central areas: Bok choy, broccoli, cauliflower, kale, boston, iceberg, leaf, romaine lettuce, parsley, spinach. Western harvest also included artichokes, asparagus, broccoflower, endive, escarole, salad savoy. Central crops available included beets, cabbage, carrots, green onions, kohlrabi, leeks, mixed greens, radishes, rappini, rutabagas, swiss chard, turnips. Tomatoes available eastern areas.

ARKANSAS: Showers first, midweek. Widespread frost midweek in northern half of State. Temperatures 5 to 9° below normal. Extreme 24°; 86°. Precipitation 0.01 to 1.63 in.

Days suitable for fieldwork 5. Soil moisture 5% short, 62% adequate, 23% surplus. More reports of septoria leaf blotch in some wheat fields. Corn planted 49%, 20% 1993, 25% avg. Some frost damage to peach orchards, good condition overall. Fertilization, liming, weed control of pastures ongoing. Pasture conditions 9% poor, 57% fair, 34% good. Alfalfa conditions 65% fair, 35% good. Other hay conditions 86% fair, 8% good, 6% excellent. Livestock mostly good. Vaccination, deworming continued for cattle. Cattle still on hay in some areas.

CALIFORNIA: Increasing upper level westerly flow on the 6th; brought more clouds, cooler weather. Showers, thunderstorms through the 8th; this was a stronger system with significant precipitation, snow down to the 4000 foot level.

Light, rain slowed field activities central, north. Small grains matured rapidly, many fields headed out. Rice fields prepared for planting where soil moisture allowed. Cotton planting slowly gained momentum San Joaquin Valley, desert planting progressed normally. Some early seeded fields emerged. Corn planting full swing central, south. Garbanzo beans, new crop sugarbeets cultivated, irrigated, weeded. Over wintered sugarbeets harvested. Alfalfa, oats, sudangrass, winter forage cut hay, greenchopped. Alfalfa treated aphids, weeds, weevils. Orchard activities: fungicide treatment, weed control, irrigation. Stone fruit growers thinning heavy fruit set. Grape growers discing weeds, mildew spraying. Grape shoots growing fast. Navel orange harvest 80% picked. Valencia orange picking desert area. Lemon harvest active south coast area. New crop citrus bloomed. Strawberry harvest active south, underway San Joaquin Valley, central coast area.

Head, leaf lettuce harvest progressed well, very good quality Fresno, Kern, Tulare, Riverside counties. Asparagus harvest continued, quality, volume good, San Joaquin Valley. Fresh market tomato transplanting, bell pepper planting continued Merced, San Joaquin counties. Onions, garlic, tomato fields treated to control weeds, irrigated, Fresno County. Garlic harvest beginning, Riverside County, good quality. Blooms in eggplant, peppers, assorted squash, gourds. Sweet corn planting underway, early plantings emerging, San Benito County. Vegetable hot caps removed, rapid growth all varieties. Melon planting continued. Crop growing well, Desert Areas. Other crops harvested; broccoli, potatoes, carrots, squash, herbs, oriental vegetables. Grasses continued maturing rapidly. Excellent weight gains cattle central valley, high quality feed. Feed supplies adequate, deteriorating, soil moisture depleted, grasses drying. Some cattle moved, rangelands to permanent pastures. Sheep grazing seed alfalfa fields. Livestock good condition, rain needed to improve pasture conditions.

COLORADO: A Pacific front moved through the State on the 4th, followed by cold Arctic air. Widespread snow ensued, mainly in the north. Skies cleared by the evening of the 5th, another front on the 7th brought winds over 60 mph to Weld County along with locally heavy snow in the central mountains. The major event of the week began on the 9th. A strong system moved slowly over the State for the next 3 days. Lower elevation stations reported mostly a mixture of rain, snow with moisture amounts generally between 0.50 to 1.00 in. 1 to 2 feet of new snow fell in the mountains. Temperatures mostly 2 to 4° below normal, but warmer near the Kansas border.

Days suitable for fieldwork 3.7. Soil moisture 5% very short, 33% short, 52% adequate, 10% surplus. Spring barley 28% seeded, 28% 1993, 30% avg.; 9% emerged, 5% 1993, 13% avg. Oats 36% seeded, 21% 1993, 30% avg.; 12% emerged, 2% 1993, 11% avg. Dry onions 72% planted, 34% 1993, 43% avg. Dry onion 14% fair, 59% good, 27% excellent. Sugarbeets 60% planted, 19% 1993, 24% avg. Spring wheat 14% planted, 9% 1993, 14% avg. Winter wheat 8% pastured, 6% 1993, 7% avg.; 1% very poor, 4% poor, 28% fair, 57% good, 10% excellent. Cows calved 80%, 72% 1993, 71% avg. Ewes lambled 81%, 78% 1993, 79% avg. Calving, lambing losses reported less than average. Livestock good to excellent. Pasture, range feed condition mostly fair.

FLORIDA: Temperatures 4° below normal to 5° above normal. Highs; mid 80s to low 90s. Lows; 40s to 60s. Rained on 0 to 2 days. Rainfall varied widely none to 2.00 in.

Soil moisture mostly short to adequate throughout State. Tobacco transplanting virtually complete. Corn planting active. Peanut planting starting. Making preparations for cotton planting. Sugarcane making good progress. Rain needed all areas. Most caretakers irrigating to maintain good tree condition during the fruit set period. Valencia harvest active. Seedless grapefruit moving to both fresh, process markets. Temple, Honey tangerine harvest almost over. Caretakers cutting cover crops, hedging, topping, post bloom spraying. Weather warmer than normal in major vegetable growing areas. Very limited precipitation except few location southwest. Growing season winding down most crops Homestead, steady west central, east coast. Planting about complete north. Tomato harvest started Palmetto-Ruskin. Leading vegetable shipments: Tomatoes, potatoes, sweet corn, peppers, cucumbers. Also available: Snap beans, cabbage, carrots, celery, chinese cabbage, eggplant, escarole, iceberg lettuce, leaf lettuce, romaine, specialty lettuces, radishes, squash, cherry tomatoes. Pasture feed 10% poor, 55% fair, 35% good. Cattle herds mostly good.

GEORGIA: Temperatures within 2° of normal. Warmest temperatures 70s northeast to 80s central, south. Coldest

temperatures 20s northeast to 50° southeast. Rains north, northwestern areas 1.00 to 2.00 in. Rainfall over remainder of State under 0.50 in., some under 0.25 in.

Days suitable for fieldwork 4.7. Soil moisture 4% short, 83% adequate, 13% surplus. Corn 19% fair, 74% good, 7% excellent; Planting corn. Some damaged due to high winds. Preparing cotton land, incorporating pre-plant herbicides. Sorghum 2% planted, 0% 1993, 2% avg. Peanuts 1% planted, 1% 1993, 1% avg.; preparing land for planting. Tobacco 13% fair, 83% good, 4% excellent; 72% transplanted, 36% 1993, 62% avg.; transplanting tobacco. Wheat 99% jointing, 90% 1993, 96% avg.; 84% boot, 47% 1993, 71% avg.; wind damage in some areas. Overall, crop in good condition. Other small grains 8% fair, 83% good, 9% excellent; wind damage in south. A few reports of cutting silage. Onions 82% good, 18% excellent; 0% harvested, 0% 1993, 1% avg. Watermelons 5% poor, 36% fair, 59% good; 76% planted, 56% 1993, 69% avg.; frost, soil insect damage. Other vegetables 25% fair, 72% good, 3% excellent. Apples 100% good; 12% blooming, 8% 1993, 52% avg. Peaches 15% fair, 85% good; 98% blooming, 92% 1993, 96% avg.; minor freeze damage north. Pasture 1% poor, 23% fair, 71% good, 5% excellent; applying fertilizer, weed control. Cattle 11% fair, 87% good, 2% excellent. Hogs 5% fair, 94% good, 1% excellent. Activities: Storm clean-up continuing in north. Caring for livestock, poultry, preparing fields, working on equipment.

HAWAII: Mostly sunny with light rainfall. Tradewinds light, 5 to 25 mph. Rainfall none to 4.10. Temperatures low 60s to mid 80s.

Weather was generally beneficial for agriculture allowing most crops to recover from the adverse mid-March conditions. Favorable weather allowed farmers to resume normal field, harvesting activities, schedules. Papaya production at seasonally lower levels. Papaya ringspot virus discovered spreading to new areas causing concern for industry. Sugarcane harvest starting up.

IDAHO: Temperatures 1° above to 4° below normal. Precipitation 0.18 to 1.57 in. north, 0.29 to 0.55 in. southwest, 0.02 to 0.30 in. south central, 0.03 to 0.32 in. east.

Days suitable for fieldwork 4. Soil moisture 2% very short, 46% short, 51% adequate, 1% surplus. Potatoes planted 8%, 1% 1993, 3% avg. Spring barley planted 45%, 4% 1993, 27% avg. Spring barley emerged 10%, 0% 1993, 7% avg. Oats planted 24%, 2% 1993, 15% avg. Sugarbeets planted 67%, 1% 1993, 38% avg.; emerged 7%, 0% 1993, 9% avg. Onions planted 99%, 0% 1993, 48% avg.; emerged 25%, 0% 1993, 5% avg. Irrigation water supplies 5% poor, 31% fair, 58% good, 6% excellent. Hay, roughage supplies 1% poor, 96% fair, 3% good. Activities: Planting small grains, sugarbeets, shipping seed potatoes, planting potatoes in southwest, south central, irrigation repair, service. Livestock reported in good condition with calving 88% complete, lambing 94% complete.

ILLINOIS: A cold front moved through the northern areas, settled over the south for much of the period. Temperatures 3 to 6° below normal. Highs low 50s to near 60°. Lows varied from near 30° north to the low 40s south. Rainfall varied from none far north to 4.33 in. at Iuka in the south.

Due to a postal processing problem, no further information is available at this time.

INDIANA: High temperatures low 50s north to the upper 50s south. Readings 2 to 6° below normal north 5 to 8° below normal south. Lows 30s to near 40°, which was 1 to 5° below normal. Precipitation near 2.00 in. was common across the State, with some precipitation arriving as snow. Soil temperatures under bare ground low 40s north to mid 40s central, south.

Wheat condition declined. Tillage, other field activities were limited by weather. Livestock stressed due to muddy, wet conditions. Farm activities this past week included: Fertilizer spreading, tillage, oats seeding, wheat top dressing, planting equipment preparation, miscellaneous chores.

IOWA: Temperatures 1 to 4° below normal. Extremes 13°; 73°. 1 to 3 in. snow north third on 4th. Precipitation trace southwest,

locally up to 0.60 in. northeast, far southeast; State average 0.12 in. (normal 0.69 in.).

Days suitable for fieldwork 5.7 Topsoil 41% short, 58% adequate, 1% surplus. Subsoil 84% adequate, 16% surplus. Oats sown 82%, 0% 1993, 41% avg. Fertilizer application 68%, 21% 1993, 46% avg. Primary seedbed preparation 66%, 22% 1993, 49% avg. Winter wheat winterkill 3%. Alfalfa hay winterkill 20%. Red clover hay winterkill 12%. Winter wheat 58% good, 42% fair. Pasture 3% excellent, 29% good, 46% fair, 19% poor, 3% very poor. Livestock are in mostly good condition. The dry March weather has been excellent for calving.

KANSAS: Temperatures mostly below normal, plus 1 to 5° below normal. Precipitation light to moderate, 0.04 in. northwest, 0.91 in. southeast.

Days suitable for fieldwork 3.5. Topsoil 55% short to very short, 41% adequate, 4% surplus. Subsurface moisture 18% short to very short, 81% adequate, 1% surplus. Seedbed preparations for row crops continue, were hampered by rain or snow. Light amounts freeze damage was sustained by wheat in the western, central districts where temperatures fell into the teens. Cool temperatures are slowing wheat growth most areas. Precipitation over most of the State is providing needed moisture. Wheat jointing 25%, 5% 1993, 25% avg. Disease, insect infestations remain light, however, Russian wheat aphids are moving northward in western third of State. Light wheat streak mosaic is reported in central, western areas. Corn planting in early stages. Corn planted 5%, 0% 1993, 5% avg. Majority of corn planted in south central, east central, southeast. Oats planted 97%, 35% 1993, 85% avg. Spring barley planted 100%, 30% 1993, 80% avg. Pasture, ranges fair to good. Cattle getting 25% roughage requirements from pastures. Some prescribed burning of pastures is occurring.

KENTUCKY: Cool, damp weather. Western, central areas, maximum temperatures 3 to 6° below normal; minimum temperatures 2 to 6° below normal. Eastern temperatures near normal. Moderate to heavy rainfall, 1.50 to 2.00 in. many areas.

Days suitable for fieldwork 1.6. Soil moisture 18% adequate, 82% surplus. Fieldwork up to a week behind normal. Tobacco beds 73% seeded, 57% 1993, 80% avg. Plants up 25% 1993, 13% 1993, 36% avg. Wheat 25% fair, 74% good, 1% excellent. Barley 26% fair, 74% good. Pasture condition fair to mostly good; need sunshine, warmer weather.

LOUISIANA: Temperatures 5.1 to 7.4° below normal. Extremes 30°; 86°. Rainfall 0.65 northwest to 2.49 central in.

Days suitable for fieldwork 3.8. Soil moisture supplies 4% short, 56% adequate, 40% surplus. Corn 7% poor, 54% fair, 39% good; 91% planted, 51% 1993, 72% avg.; 67% emerged, 34% 1993, 53% avg. Continued at a slow pace due to cool weather. Rice 21% emerged, 14% 1993, 20% avg. Planting continued in the southern parishes. Wheat 7% poor, 47% fair, 46% good; 53% headed, 42% 1993, 62% avg.; 0% turning color 3% 1993, 1% avg. Sorghum 1% emerged, 0% 1993, 6% avg. Spring plowing 74% plowed, 45% 1993, 56% avg. Slowed by showers. Sugarcane 48% fair, 52% good. Growers continued plowing out stubble, fertilization as weather permitted. Livestock 10% poor, 72% fair, 18% good. Worming, vaccinations active. Pasture 1% very poor, 9% poor, 9% fair, 77% good, 4% excellent. Fertilization active, growth was slowed by cool temperatures. Vegetables 47% fair, 53% good. Planting continued.

MARYLAND & DELAWARE: MARYLAND: Precipitation 0.57 in., normal 0.85 in. Temperature 53.9°, normal 49.8°. Extremes 18°; 76°.

Days suitable for fieldwork 2.9. Topsoil 20% adequate, 80% surplus. Subsoil 27% adequate, 73% surplus. Pasture good. Small grain condition mostly fair to good. Some small grain down-out reported due to excessively wet fields. Corn grain 0% planted, 2% 1993, 1% avg. Sweet corn 0% planted, 1% 1993, 2% avg. Potato 0% planted, 11% 1993, 31% avg. Apples 2% bloomed, 0% 1993, 14% avg. Peaches 9% bloomed, 3% 1993, 47% avg. Strawberries 0% bloomed, 0% 1993, 12% avg. Some fruit trees damaged due to frigid temperatures, ice in late January.

DELAWARE: Precipitation 0.53 in., normal 0.90 in. Temperature 51.9°, normal 49.3°. Extremes 28°; 72°.

Days suitable for fieldwork 2.0. Topsoil 100% surplus. Subsoil moisture 20% adequate, 80% surplus. Pasture condition good. Small grain condition mostly fair. Corn grain 0% planted, 1% 1993, 1% avg. Sweet corn 2% planted, 2% 1993, 2% avg. Potato 10% planted, 7% 1993, 34% avg. Apples 0% bloomed, 0% 1993, 15% avg. Peaches 23% bloomed, 0% 1993, 71% avg. Strawberries 0% bloomed, 0% 1993, 3% avg. Some fruit trees damaged due to frigid temperatures, ice in late January.

MICHIGAN: Extremes 4°; 71°. Precipitation none to 0.83 in. across the State. Cold temperatures, snow flurries early in the week reminded farmers that winter is not completely over. Extreme southern parts of the State recorded 1 to 5 in. of snow by midweek before a warming trend moved in to create a pleasant weekend.

Most fields were still to wet to work, some limited oat seeding on high ground in the southern part of the State have been completed. Livestock were in good condition, feed supplies remained adequate. Major activities: Hauling manure, pruning fruit trees, spreading fertilizer, preparing machinery for spring planting, making maple syrup, cleaning up downed trees.

MINNESOTA: Temperatures 1 to 6° below normal. Extremes 7°; 63°. Precipitation 0.15 to 0.48 in. below normal. Precipitation 0.06 to 0.43 in. for the State. Greatest weekly total 0.64 in.

Some operators have begun spring activities of field preparation, fertilizing, small grain planting.

MISSISSIPPI: Temperatures 53°, 5.3° below normal. Extremes 28°; 84°. Precipitation was heavy across most of the State. Rainfall 1.57 in., 0.32 in. above normal. Soil temperature 59°.

Days suitable for fieldwork 2.5. Soil moisture 44% adequate, 56% surplus. Corn 43% planted, 21% 1993, 37% avg.; 25% emerged, 9% 1993, 24% avg.; 15% poor, 70% fair, 15% good. Rice 14% planted, 3% 1993, 8% avg.; 5% emerged, 0% 1993, 1% avg. Sorghum 17% planted, 3% 1993, 9% avg.; 13% emerged, 2% 1993, 3% avg.; 34% poor, 63% fair, 3% good. Watermelons 26% planted, 21% 1993, 37% avg.; 30% fair, 70% good. Wheat 85% jointing, 71% 1993, 85% avg.; 15% heading, 9% 1993, 26% avg.; 35% fair, 47% good, 18% excellent. Livestock 20% fair, 75% good, 5% excellent. Pasture 78% of normal. Activities: Land preparation for spring crops, some planting.

MISSOURI: Temperatures 4 to 7° below normal. Rainfall 2.62 in., ranging from 1.00 in. northwestern, north-central districts to over 3.00 in. west-central, central, east-central, southwestern districts. Flooding reported in many central, southwestern counties.

Days suitable for fieldwork 2.8. Topsoil 10% short, adequate, 51% surplus. Ground worked at least once for spring crops 56%, 31% 1993, 59% avg. Corn planting most advanced in southeastern district at 28%, barely begun most central, northern areas. Oats planted 67%, 11% 1993, 56% avg. Pastures 11% poor, 52% fair, 36% good, 1% excellent. Pasture, wheat growth slowed by cool weather. Some low wheat fields flooded.

MONTANA: Temperatures varied; 5° above normal west, 5° below normal central third. Precipitation well above normal western third, central, south central divisions; near normal other divisions.

Days suitable for fieldwork 1.9. Topsoil moisture 12% short, 74% adequate, 14% surplus. Subsoil moisture 26% short, 67% adequate, 7% surplus. Field tillage work in progress 53% none, 32% just started, 15% well underway. Winter wheat 22% dormant, 65% greening, 13% growing. Wind damage to winter wheat 41% none, 40% light, 16% moderate, 3% heavy. Barley 5% planted, 2% 1993, 6% avg. Oats 3% planted, 1% 1993, 3% avg. Sugarbeets 6% planted, 0% 1993, 3% avg. Livestock grazing 76% open, 17% difficult, 7% closed. Livestock most regions receiving supplemental feed. Calving 79% complete, lambing 71% complete.

NEBRASKA: Temperatures 3 to 5° below normal. Precipitation less than 0.10 in. except for the Panhandle which averaged 0.30 in.

Days suitable for fieldwork 6.4. Topsoil moisture 72% short, 28% adequate. Subsoil moisture 3% short, 95% adequate, 2% surplus. Wheat 43% fair, 53% good, 4% excellent. Oats 71% planted, 2% 1993, 50% avg. Land preparation for planting active. Pasture, range condition 96% of normal. Spring calving 79% complete with minimal losses. Supplemental feeding when cattle is on stalks or in winter quarters.

NEVADA: Widely scattered light showers statewide. Northeast 0.73 in., southern areas just 0.03 in. Temperatures slightly below normal; 3° below normal northeast to 2° above normal south. Extremes 10°; 87°.

Many areas will have less than half of normal allocation for irrigation with surface water. Planting spring crops continues. Calving, lambing over halfway complete. Getting ready to move livestock to summer pastures.

NEW ENGLAND: Precipitation 0.10 to 2.36 in. regionwide. Temperatures 33 to 46° north; 39 to 48° south. Maximum temperatures 48 to 65° north; 55 to 67° south. Minimum temperatures 11 to 29° north; 20 to 50° south.

Major activities: Sugaring winding down. Greenhouses gearing up production of bedding plants for Spring season. Tending livestock.

NEW JERSEY: Weather data not available at this time.

Planting, plowing of ground. Ground preparation 1 to 2 weeks behind due to excessive topsoil moisture, rains. Fertilizing, pruning, fumigating of fruit trees.

NEW MEXICO: Late week storm dumped some precipitation over the northern half of the State with highest totals slightly over an inch. Temperatures over the north 2 to 3° below normal while temperatures in the south averaged near normal. Extremes 11°; 90°.

Days suitable for fieldwork 6.0. Soil moisture 80% short, 20% adequate. Light to moderate freeze damage in various areas affecting alfalfa, early fruit, some early vegetables. Crop conditions: Alfalfa 13% poor, 45% fair, 42% good. Irrigated wheat 11% poor, 42% fair, 42% good, 5% excellent. Dryland wheat 25% very poor, 64% poor, 11% fair. Onions 14% fair, 86% good. Lettuce fair to mostly good. Chile, potato planting continued. Cattle, sheep poor to good with supplemental feeding active. Range feed condition 58% of normal.

NEW YORK: Week started, ended mild; cool at midweek. Precipitation above normal except southeast where 0.50 in. fell. Temperatures: high of 66° in Poughkeepsie to a low of 1° below zero at Saranac Lake. Many places picked up 1.00 in. mixed precipitation. Most significant storm occurred on 6th, 7th. Some areas near the Canadian Border had 1 foot of snow. Dry rest of week for most areas.

Major activities: Tending livestock, spreading manure, moving crops from storage, attending meetings, readying equipment for spring plantings. Maple syrup season winding down.

NORTH CAROLINA: Temperatures 12° below normal to 2° above normal. Precipitation 4.25 in. Roanoke Rapids to no precipitation several locations.

Days suitable for fieldwork 4.3. Soil moisture 3% short, 79% adequate, 18% surplus. Crop conditions: Wheat 2% poor, 19% fair, 73% good, 6% excellent; oats 7% poor, 19% fair, 72% good, 2% excellent; barley 3% poor, 24% fair, 70% good, 3% excellent; rye 22% fair, 76% good, 2% excellent; pasture 2% poor, 33% fair, 65% good; outdoor tobacco plant bed; 2% poor, 29% fair, 69% good; greenhouse tobacco plant beds 91% good, 9% excellent; Irish potatoes; 35% fair, 65% good; peaches 6% fair, 81% good, 13% excellent; truck crops 6% poor, 47% fair, 47% good; hay, roughage supplies 10% very short, 39% short, 51% adequate. Feed grain supplies 4% very short, 16% short, 80% adequate; tobacco plant supplies 2% short, 91% adequate, 7% surplus. Irish potatoes planted 80%, 77% 1993, 81% avg.; corn planted 20%, 5% 1993, 15% avg.; cabbage transplanted 81%, 75% 1993, 84% avg. Activities: Planting corn, tobacco plant bed maintenance, preparing land for planting. Other activities included: Planting vegetables, transplanting tobacco, topdressing small grains, tending livestock; equipment repair.

NORTH DAKOTA: Mixture of rain, snow across State late in the week. Precipitation 0.11 in. south central to 0.49 in. northwest. Temperatures 3 to 7° below normal. Extremes 10° east central, west central; 66° south central.

Soil moisture above last year, average. Topsoil 83% adequate, 17% surplus. Subsoil 3% short, 81% adequate, 16% surplus. Expected starting date for fieldwork 18th, average 15th. Winter wheat 32% fair, 68% good; 92% dormant, 8% green. Hard red spring wheat none planted, none 1993, 3% avg.; durum wheat none, none 1993, none avg.; oats none, none 1993, 2% avg.; barley none, none 1993, 2% avg. Livestock mostly good, nearly all receiving supplemental feed. Calving was 69% complete, lambing 75%, shearing 79%. Hay, roughage, grain, concentrate supplies mostly adequate. Pastures 91% of normal; 94% still dormant.

OHIO: A fairly dry period ended this week with above normal precipitation over nearly all of State. Totals exceeded 3.00 in. at several locations in the south. The week was cool compared to normal. Highs fell short of normal, low 50s, to around 60° some southern counties. Lows upper 20s, to the upper 30s in the south. Soil temperatures low to mid 40s for the period, within 1 to 2° of normal. On the warmest days, soil temperatures climbed into the 50s, cool mornings, readings fell below 40° at nearly all sites.

Days suitable for fieldwork 2.3. Soil moisture 1% short, 45% adequate, 54% surplus. Snow accumulation covered, protected early grasses, fall seeded crops from below normal temperatures. The early grasses, fall seeded crops had just broken dormancy. As a result of cold temperatures, plant growth will be slowed, bud development will be a few days behind schedule. Winter wheat 1% very poor, 5% poor, 26% fair, 56% good, 12% excellent. Oats planted 19%, 3% 1993, 19% avg. Potatoes planted 3%. Sugarbeets planted 5%. Pasture 2% very poor, 7% poor, 39% fair, 45% good, 7% excellent. Hay 2% very poor, 8% poor, 39% fair, 45% good, 6% excellent.

OKLAHOMA: Temperatures 4° below normal north-central to 2° above normal southeast. Precipitation none east-central to 2.05 in. west-central.

Topsoil moisture 36% short, 63% adequate, 1% surplus. Subsoil moisture 38% short, 62% adequate. Oats 12% poor, 36% fair, 52% good; 28% jointing, 18% 1993, 40% avg.; 1% headed, 0% 1993, 3% avg. Barley 15% poor, 13% fair, 72% good; 25% jointing, 21% 1993, 44% avg.; 1% headed, 0% 1993, 0% avg. Corn 83% seedbed prepared, 75% 1993, 80% avg.; 24% planted, 14% 1993, 17% avg.; 5% up to stand, 5% 1993, 3% avg. Soybeans 37% seedbed prepared, 22% 1993, 39% avg.; 1% planted, 1% 1993, 1% avg. Peanuts 48% seedbed prepared, 47% 1993, 41% avg. Pasture 93% of normal. Livestock fair 12% good 88%. Feeder cattle prices firm. Stocker cattle, calves steady to \$1.00 lower.

OREGON: Temperatures above normal early, well below normal midweek, end of week above normal. Klamath Falls set new high record on 10th at 84°. Low record temperatures were broken on 7th morning in eastern areas with teens, 20s over a wide area. Precipitation was sparse with only a few coastal stations recording more than a tenth of an inch.

Soil moisture 91% short, 9% adequate. Winter wheat 74% planted, 37% emerged. Winter barley 55% planted. Field prep for fall seeding in cereal grains continues. Sugarbeets harvest continues, Malheur County. Hazelnut harvest continues; Willamette Valley. Apple harvest complete. Cranberry harvest continues, steady pace, good quality, size, color; southern coast. Pruning, training canberries. New strawberry fields looking good. Potato harvest continues, Malheur, Klamath. Some onions left to harvest, Malheur. Sweet corn harvest finishing up, Willamette Valley. Cauliflower processing underway. Livestock good. Pastures, ranges still very dry, needing rain. Fall cattle, calf processing underway. Hay, protein supplements continue being fed. Range, pasture 56% of normal.

PENNSYLVANIA: Above normal precipitation, some snow in the northwest. Eastern part of State below normal precipitation. Temperature 48°, 5° above normal. Extremes 15°; 72°. Precipitation 0.99 in., 0.18 in. above normal.

Days suitable for fieldwork 2. Soil moisture 10% adequate, 90% surplus. Plowing 3% complete, 2% 1992, 18% avg. Oats 1% planted, 0% 1992, 15% avg. Tobacco beds 10% planted, 3% 1992, 38% avg. Wheat 1% very poor, 10% poor, 25% fair, 45% good. Hay stands poor to fair. Activities: Hauling manure; some spring plowing, oat planting; caring for livestock.

PUERTO RICO: Rainfall 0.68 in. was 0.07 in. below normal. Rainfall 4.24 in. Sabana Grande, 2.38 in. at Jayuya, 2.08 in. at Lajas Aes. Highest 24 hour total 1.90 in. at Sabana Grande. Island temperatures about 77 to 78° on the coasts, 71 to 74° in the interior with mean station temperature 80.5° at Roosevelt Roads to 62.3° at Pico del Este. Extremes 51°; 91°.

SOUTH CAROLINA: Temperatures 1° below average in the Upstate to 3° above average in the Midlands, Coastal Plains. Average rainfall 0.20 in.

Days suitable for fieldwork 6.0. Soil moisture 5% very short, 39% short, 56% adequate. Tobacco fair to good; 22% planted, 7% 1993, 21% avg. Corn fair to good; 77% planted, 44% 1993, 58% avg. Cantaloupes fair to good; 59% planted, 30% 1993, 39% avg. Watermelons fair to good; 73% planted, 39% 1993, 54% avg. Cucumbers good; 41% planted, 37% 1993, 47% avg. Snapbeans good; 44% planted, 40% 1993, 36% avg. Tomatoes fair to good; 66% planted, 62% 1993, 69% avg. Pastures fair to good.

SOUTH DAKOTA: Cool early, mild late-week. Overall temperatures slightly below normal. Extremes -8°; 69°. Variable precipitation 0.50 to 1.00 in. west, south-central to 0.10 to 0.20 remainder. Heaviest 1.20 in. west-central.

Field activity started in isolated areas. Remainder waiting for warmer, dryer soil. Calving, lambing progressed. Other farm activities: Hauled grain, prepared equipment for fieldwork, early fertilizer application.

TENNESSEE: Temperatures cooler than normal again, although it did warm up late in the week. The unusually cold weather was felt statewide, with the northern areas having the coldest temperatures. Dyersburg, Tri-Cities area tied for the coldest average temperature for the week with 53°. The Tri-Cities airport recorded the State's coldest morning when the mercury dipped to 27° on the 8th. Precipitation was abundant statewide, except in the northwest. All stations, except Dyersburg, reported above-normal rainfall. Crossville was wettest; 4.22 in. inundated that area. Knoxville was close behind with 4.04 in.

Days suitable for fieldwork 1.0. Soil moisture 8% adequate, 92% surplus. Corn 3% planted, 0% 1993, 4% avg. Cotton 0% planted, 0% 1993, 0% avg. Tobacco 84% seeded, 80% 1993, 91% avg.; 42% plants up, 40% 1993, 58% avg. Wheat 20% jointed, 25% 1993, 50% avg.; 1% poor, 33% fair, 66% good. Apples 68% budding or beyond, 66% 1993, 74% avg.; 13% blooming or beyond, 12% 1993, 40% avg. Peaches 90% budding or beyond, 93% 1993, 91% avg.; 73% blooming or beyond, 77% 1993, 78% avg. Pastures 3% poor, 35% fair, 54% good, 8% excellent. Cattle 1% poor, 36% fair, 60% good, 3% excellent. Surplus soil moisture levels continue to put fieldwork behind schedule. Some corn may need re-planting because of the cool temperatures, excessive rain. Heavy rains and flooding have damaged some tobacco plant beds in East. Light frosts are holding back fruit crop development, any extensive damage has been limited to a few isolated areas. Fertilizer applications to wheat, pastures, hay fields are running 1 to 2 weeks behind schedule.

TEXAS: Cold front pushed through on 5th bringing snow to Panhandle, thunderstorms to southeast. Temperatures dipped into teens in Panhandle, into 40s as far south as Brownsville. Rainfall was heaviest in East Texas. A slow moving system later in week brought thunderstorms to Central Texas, along Coast on 8th. As system moved eastward, thunderstorms, snow in Panhandle gripped West Texas 10th evening. Rainfall amounts were light 8th, and heavy 10th evening in West Texas. Rainfall amounts for week were heaviest in Low Rolling Plains, Upper Coast, which received an average of 0.55 in. and 0.52 in., respectively. Rainfall was below normal for all areas except Low Rolling Plains and High Plains, with departures ranging from -0.07 in. Southern Texas to -0.58 in. in North Central Texas. Weekly individual station totals were 2.05 in., 1.58 in., 1.44 in.

Hobart, Beaumont, Abilene, respectively. Mean temperatures were mixed. Below normal locations were along Coast, in Plains, while it was normal in Southern Texas. Below normal departures -5° in Low Rolling Plains to -1° in South Central, along Upper Coast. Above normal departures +1° in East Texas, Trans-Pecos, Lower Valley to +2° in North Central, Edwards Plateau.

Crops: Corn planting was increasing in High Plains. In Blacklands where planting was almost complete, some existing stands were damaged by mid-week cold, some fields may need to be replanted. In South Central Texas some fields were damaged by hail storms. Corn 87% normal, 76% 1993. Cotton Northern Low Plains where land preparation continued, high winds caused soil erosion in some fields. Planting continued in Blacklands and southward, where growth of emerged plants was slowed due to cold weather. Rice planting continued where conditions allowed. Rice has emerged in some fields along Upper Coast. Sorghum stands in Blacklands were damaged from cold. Land preparation, planting continued in Edwards Plateau. Some producers in South Central Texas were scouting for aphids. Sorghum 86% normal, 71% 1993. Small grains many dryland fields across State were showing signs of stress from lack of moisture. Some wheat may have also suffered some freeze damage from low temperatures associated with cold front. Some wheat producers in Blacklands applied fungicides for leaf rust control. Wheat 61% normal, 77% 1993.

Commercial Vegetables: Rio Grande Valley: onion harvest continued. Harvest of 1015 variety onions was in full swing. Watermelons, honeydews were setting fruit. Cantaloupes made good progress. High Plains: onions, potatoes were planted. San Antonio-Winter Garden: cabbage harvest winding down in some areas. Cantaloupes, watermelons made good progress. East Texas: frost damaged some crops, land preparation continued. Trans-Pecos: planting of chilies, cantaloupes continued. Weeds being controlled along Rio Grande River. Peaches East Texas, peach crop in some orchards suffered considerable damage from midweek cold front. Crop may be light in some areas of Edwards Plateau due to earlier frosts. Spraying of fungicides, insecticides continued. Some early peaches were harvested in Rio Grande Valley. Producers were preparing for harvest in some areas of South Texas.

Range and Livestock: Livestock remained in fair to good condition across State. Lice infestations were heavy on untreated cattle in some areas of Northern Low Plains, while hornfly populations were increasing in some areas of Blacklands. Spring calving continued. Pastures were improving across State, areas were still in need of moisture to boost growth of warm season grasses. Supplemental feeding continued to decrease in most areas.

UTAH: Maxima were normal, minima 1° above normal. Precipitation was light to moderate across the State, except for Dixie division which received little to no precipitation.

Days suitable for fieldwork 4.7. Soil moisture 17% short, 39% adequate, 44% surplus. Winter wheat 86% good, 14% adequate. Fall barley 81% good, 19% adequate. Spring wheat planted 53%, 13% 1993, 53% avg.; emerged 19%. Barley planted 55%, 19% 1993, 51% avg.; emerged 17%. Oats planted 22%, 12% 1993; emerged 9%. Apricots bloomed 100%. Sweet cherries bloomed 14%. Tart cherries bloomed 9%. Peaches bloomed 31%. Apples bloomed 4%. Pears bloomed 17%. Cows calved 65%, 67% 1993, 70% avg. Calf death losses 60% below normal, 40% normal. Ewes lambed on farm 74%, 73% 1993, 75% avg. Ewes lambed on range 40%, 31% 1993, 36% avg. Lamb death losses 67% below normal, 33% normal. Sheep sheared on farm 70%, 52% 1993, 63% avg. Sheep sheared on range 37%, 25% 1993, 44% avg. Pasture, range conditions good to excellent.

VIRGINIA: Temperatures above normal. Extremes 20°; 85°. Precipitation near normal in the west, below normal in the east.

Days suitable for fieldwork 1.5. Topsoil 25% adequate, 75% surplus. Barley 4% poor, 57% fair, 36% good, 3% excellent. Wheat 2% poor, 63% fair, 33% good, 2% excellent. Pasture 2% poor, 54% fair, 42% good, 2% excellent. Alfalfa hay 56% fair, 44% good. Other hay 49% fair, 51% good. Peaches 44% very poor, 7% poor, 39% fair, 10% good. Apple 23% fair, 77% good. Tobacco planted 8% poor, 49% fair, 37% good, 6% excellent. Tobacco greenhouse 35% fair, 44% good, 21% excellent. Potato planting was about 70%

completed. Corn was 2% planted, 0% 1994, 3% avg. Topdressing small grains, overseeding pastures, hay fields, fertilizing, liming corn, soybean land, preparing peanut, cotton land for planting, monitoring aphid, cereal leaf beetles in small grains, pruning, spraying fruit trees.

WASHINGTON: Temperatures 3° below normal to 3° above normal west; 2° below normal to 4° above normal east. Precipitation 0.81 to 2.17 in. west; 0.09 to 1.38 in. east.

Days suitable for fieldwork 4.9. Soil moisture 42% short, 51% adequate, 7% surplus. Hay, other roughage supplies 3% very short, 11% short, 78% adequate, 8% surplus. Range, pasture 25% poor, 43% fair, 26% good, 6% excellent. Winter wheat dryland 1% poor, 50% fair, 46% good, 3% excellent; irrigated 5% fair, 90% good, 5% excellent. Spring wheat dryland 71% fair, 27% good, 2% excellent; irrigated 5% fair, 95% good. Barley dryland 75% fair, 25% good; irrigated 100% good. Scattered showers were a welcome relief from unusually dry spring; low soil moisture, reservoir levels remain major concern. Small grain, potato, vegetable planting continued. Pears blooming, apples near bloom; shortage of bees for pollination could impact fruit set. Ranges, pasturelands fair to poor, responding favorably to week's rainfall.

WEST VIRGINIA: Temperature 49°. Extremes 18°; 79°. Precipitation 1.25 in.

Days suitable for fieldwork 2.4. Soil moisture 37% adequate, 63% surplus. Barley good. Wheat 5% fair, 95% good. Hay 39% fair, 61% good. Apples 34% poor, 50% fair, 16% good. Peaches possible total loss due to January freeze. Soil prepared 9%. Corn planted 0%. Oats planted 5%. Tobacco beds 99% planted, 50% emerged. Gardens planted 6%. Soybeans planted 0%. Pastures 8% poor, 57% fair, 34% good, 1% excel.; 100% growing; 89% of normal. Cattle 15% fair, 85% good. Sheep 5% fair, 95% good. Hay feed supplies 29% very short, 36% short, 35% adequate. Other feed supplies 10% very short, 5% short, 85% adequate. Farm activities: Spraying fruit trees, calving, lambing, feeding livestock, bookkeeping.

WISCONSIN: Temperature 37°, 2° below normal. Extremes 1°; 70°. Precipitation 0.10 to 0.50 in.

Days suitable for fieldwork 2.2. Soil moisture 2% short, 85% adequate, 13% surplus. Intended spring tillage 8% complete, 5% 1993, 5% avg. Oats 19% planted, 0% 1993, avg. Frost is still in the ground in the north. Reporters indicate it is coming out slowly in the north, faster in the east, west-central areas. Precipitation has been less than normal, warmer weather is needed to bring out the frost, dry the fields. Manure hauling is the main field activity in these areas. Reporters indicate maple syrup production is steady, flow is still real good for some. In the southern areas of the State, temperatures have been mild throughout the week. Farmers have been actively doing fieldwork in the south oat plantings are over 30% complete in the southeast, south central districts. Winter wheat is greening in some areas, alfalfa appears to have come through the winter in good shape.

WYOMING: Temperatures 1 to 2° above normal in the south with the exception of Torrington, Douglas which were 1 to 2° below normal. Northern half 1 to 4° below normal with the exception of Moran, Thermopolis which ranged from 1 to 3° above normal. Precipitation was well below normal. The exception was in the northwest, scattered areas in the northeast where it was 0.05 to 0.38 in. above normal. Moran, Newcastle received the largest amount of precipitation with 0.63 and 0.65 in, respectively.

Days suitable for fieldwork 4.1. Topsoil 11% short, 85% adequate, 4% surplus. Spring wheat 11% planted, 6% 1993, 20% avg.; 1% emerged, 0% 1993, 1% avg. Oats 21% planted, 4% 1993, 16% avg.; 2% emerged, 0% 1993, 1% avg. Barley 53% planted, 25% 1993, 48% avg.; 6% emerged, 0% 1993, 12% avg. Sugarbeets 14% planted, 5% 1993, 18% avg. All livestock in good condition. Spring calves born 74%, 71% 1993, 69% avg. Calf death losses 33% light, 67% normal. Farm flock: Ewes lambed 82%, 78% 1993, 73% avg.; shorn 85%, 69% 1993, 69% avg. Range flock: ewes lambed 15%, 19% 1993, 28% avg.; shorn 45%, 29% 1993, 42% avg. Lamb death losses 12% light, 88% normal. Stockwater supplies 5% short, 95% adequate. Pastures, ranges: 67% still dormant, 33% growing.

International Weather and Crop Summary

HIGHLIGHTS

April 3 - 9, 1994

FSU-WESTERN: Mild weather in Ukraine and southern Russia favored rapid greening of winter grains and warmed topsoils for spring grain emergence.

EUROPE: Wet weather helped winter crops in the southeast, but Spain continued too dry.

SOUTH ASIA: Unseasonable rains increased moisture reserves but hampered winter crop harvests.

SOUTHEAST ASIA: Typhoon Owen brought heavy showers to the Philippines.

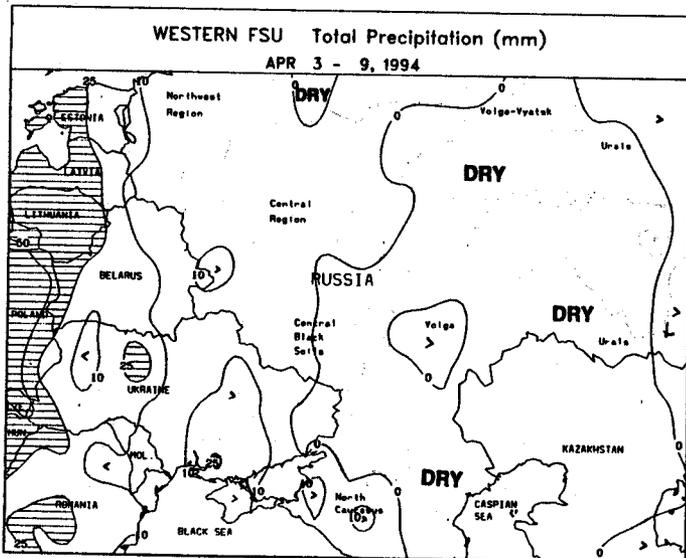
EASTERN ASIA: Rains benefited vegetative winter wheat across most of the North China Plain.

AUSTRALIA: Dry weather continued to favor summer crop harvesting and wheat field preparation across eastern Australia.

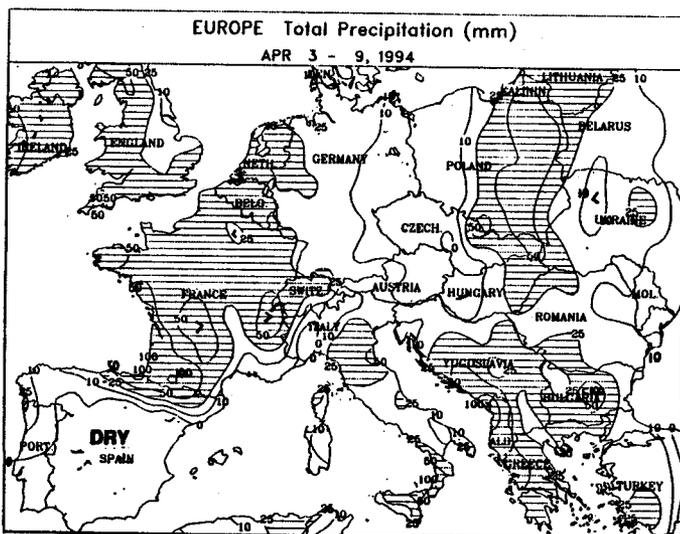
SOUTH AMERICA: Rains benefited immature soybeans in Argentina.

NORTHWESTERN AFRICA: Persistent dryness lowered yield prospects for Moroccan winter grains.

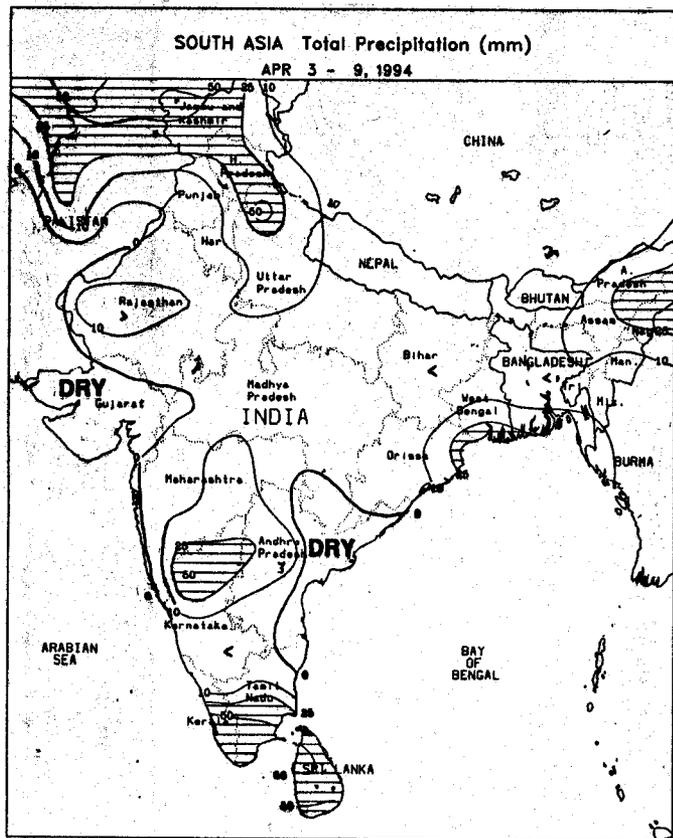
SOUTH AFRICA: Conditions favored corn maturation and early harvests.



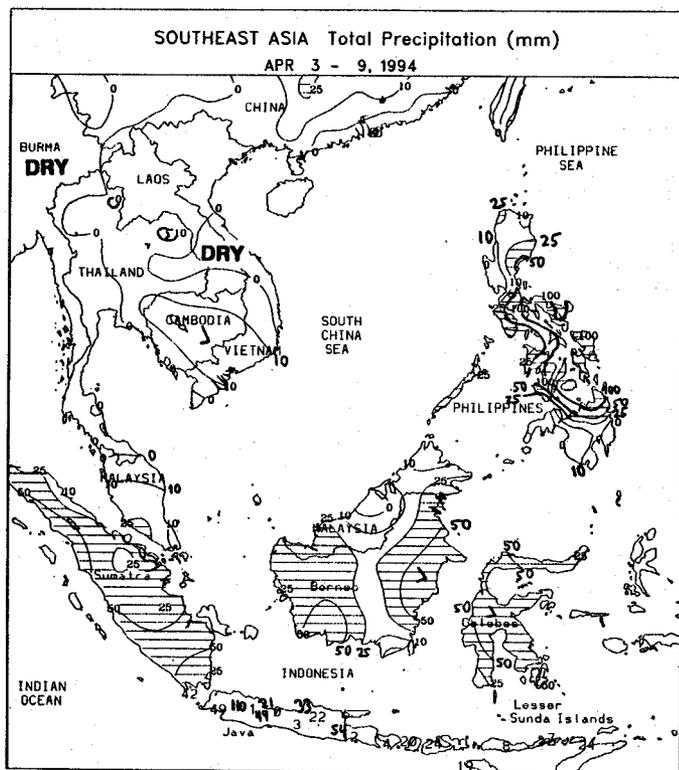
FSU-WESTERN: Unseasonably mild weather over Ukraine and southern Russia (North Caucasus and lower Volga) stimulated rapid greening of winter grains and warmed topsoils for spring grain emergence. Weekly average temperatures were 2-4 degrees Celsius (C) above normal in these areas. Light, scattered showers (10-25 mm) over Moldova, Ukraine, and southern Russia caused only minor delays in spring grain planting. Additional moisture is needed in Moldova and southern Ukraine for winter grains in the early vegetative stage and spring grain emergence. In the Baltic States and western Belarus, light to moderate rain (10-44 mm) delayed early spring fieldwork.



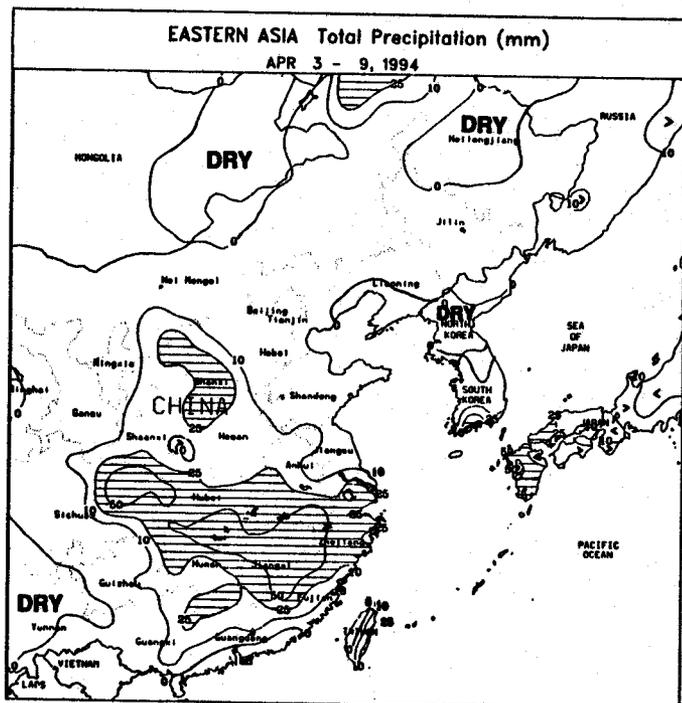
EUROPE: Showery weather covered most crop areas, maintaining adequate soil moisture for emerging winter grains in the north but slowing early spring fieldwork in France. Locally heavy rain (50-105 mm) soaked corn areas of southwestern France and winter rye areas of eastern Poland. Substantial rain also boosted moisture reserves in southeastern Europe, following winter dryness. Timely showers (10-50 mm, with scattered 50-122 mm) moistened crop areas of Bulgaria. Variable rainfall (10-59 mm, with 50-100 mm in southern Italy) helped crop development across Italy, Romania, and Greece. Frequent storms (20-60 mm) in the United Kingdom and the Benelux countries kept fields wet for greening winter crops. Light showers (less than 10 mm) were confined to eastern Germany, western Poland, the Czech Republic, and western Hungary. Unfavorably dry weather persisted over Spain. Temperatures averaged 1-3 degrees C below normal over most of Europe.



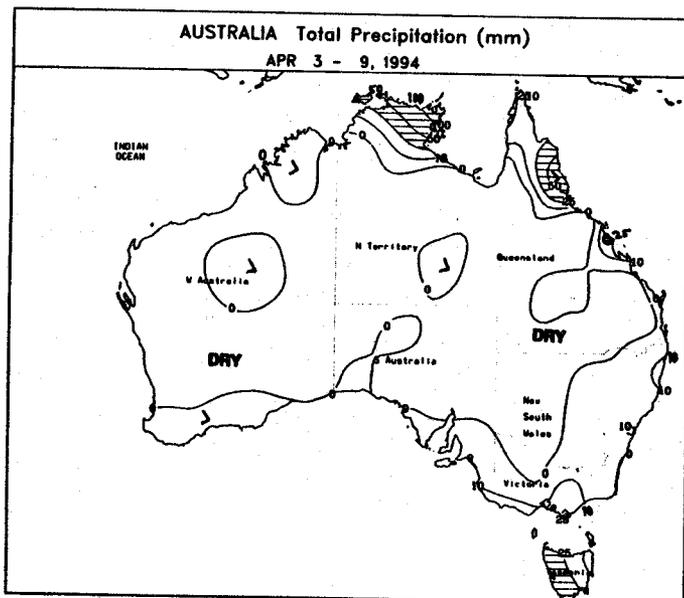
SOUTH ASIA: Unseasonable light to moderate showers (5-25 mm or more) fell across the region. In the northwest, mostly light rain (3-11 mm) benefited immature winter wheat, with heavier showers (25-63 mm) north of primary crop areas increasing irrigation reserves. The impact on early cotton planting was limited. Showers (5-37 mm, with accumulations exceeding 50 mm along the west coast) over southern India hampered rabi (fall-planted) crop harvests. In the east, showers tapered off from last week's excessive amounts, with most reports below 25 mm. The drier weather brought some flood relief and aided winter harvests.



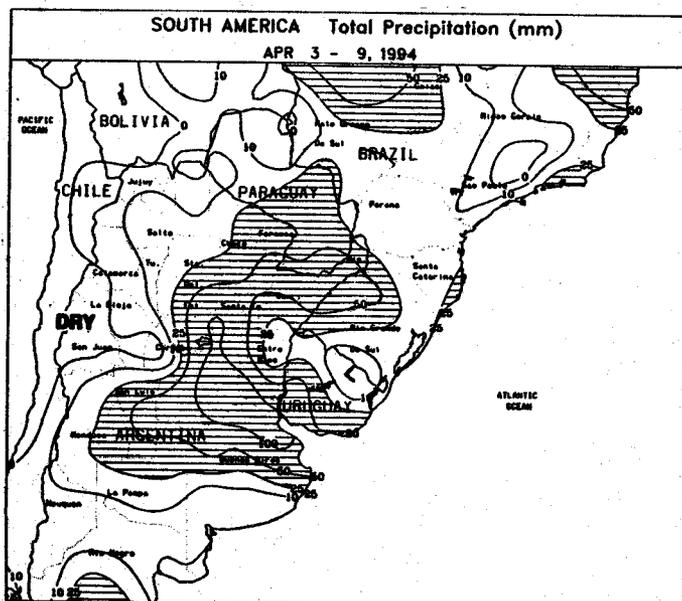
SOUTHEAST ASIA: Typhoon Owen hit the central Philippines with sustained winds of 70 knots and brought soaking rain (50-100 mm or more) to grain, sugarcane, and copra regions. Main-season rice and corn planting takes place in April and May throughout the islands. Seasonably drier and warmer weather returned to Indochina, favoring dry-season rice maturation. The dryness extended into the rice and oil palm areas of western Malaysia, where only 8-36 mm of rain fell. Further south, rainfall tapered off over eastern Malaysia and Indonesia, but much of Java received 25-50 mm or more, hampering rice harvests.



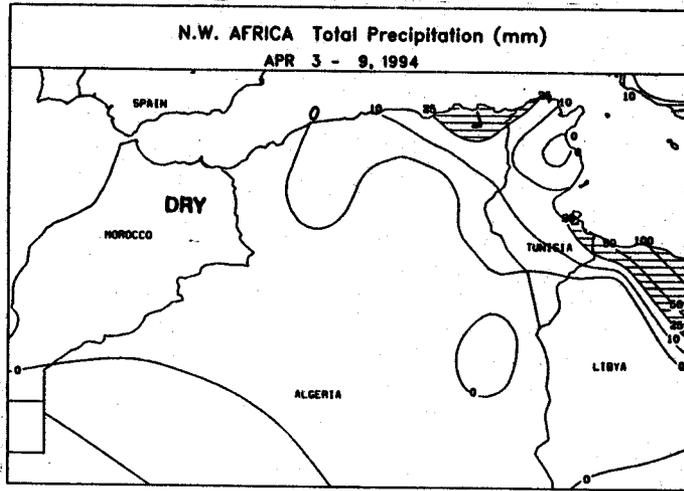
EASTERN ASIA: Light to moderate rain (10-35 mm) fell across most areas of the North China Plain (Shanxi, Henan, northern Anhui, and southern Jiangsu), benefiting vegetative winter wheat. However, the main wheat-producing states of Hebei and Shandong received less than 5 mm. Dry, warm weather (2 to 4 degrees C above normal) promoted spring wheat and early summer crop planting across Manchuria. Widespread showers (20-80 mm) from eastern Sichuan eastward across Yangtze Valley increased irrigation supplies for early double-crop rice. Temperatures averaged 3 to 5 degrees C above normal across most of China, spurring early spring growth.



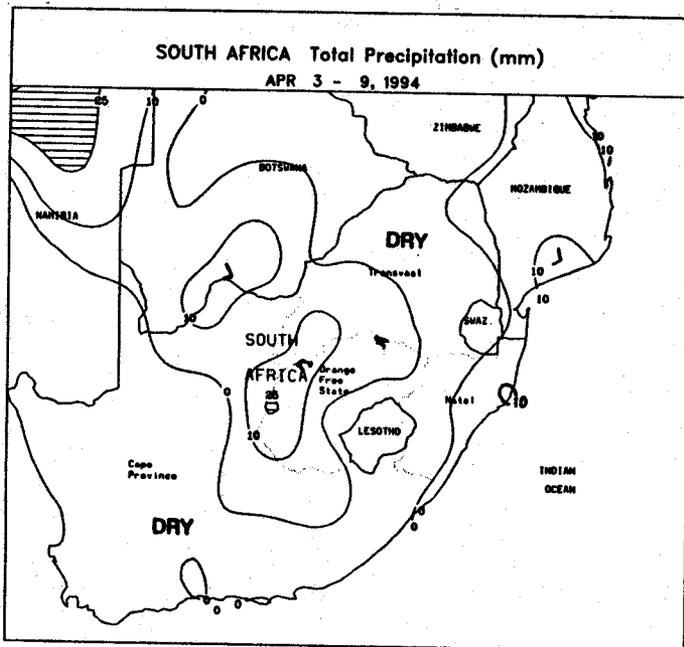
AUSTRALIA: Dry weather continued to favor summer crop harvesting and wheat field preparation across eastern Australia. Temperatures averaged 1-2 degrees C below normal in the east. Moderate showers (30-90 mm) dotted the northeast coast of Queensland, aiding sugarcane.



SOUTH AMERICA: Widespread moderate to heavy showers (30-100 mm, with localized amounts greater than 150 mm) covered the main Argentine soybean areas of northern Buenos Aires, southern Santa Fe, and Cordoba. The moisture aided filling second-crop soybeans but slowed main-season corn and soybean harvesting. Drier weather prevailed across southern Buenos Aires, favoring sunseed harvesting. Moderate showers (30-70 mm) continued across northern Argentina, slowing cotton harvesting and possibly reducing quality. Across most of southern Brazil, early-week dry weather allowed summer crop harvesting to progress, but showers developed late in the week. Rainfall ranged from 10 to 40 mm across most regions, with the heaviest amounts (30-60 mm) occurring in Rio Grande do Sul. Temperatures averaged 1-2 degrees C below normal across northern and central Argentina and extreme southern Brazil, while south-central Brazil experienced near-normal temperatures. Moderate rains (30-50 mm) fell across southern Paraguay, slowing cotton and soybean harvesting and possibly reducing cotton quality.



NORTHWESTERN AFRICA: The fourth consecutive week of dryness covered Moroccan winter grains, lowering prospects for crops in or nearing the filling stage. Further east, drought continued to negatively affect winter grains in western and central Algeria and most of Tunisia. Light to moderate rain (10-38 mm, with local amounts in excess of 50 mm) covered winter grains in eastern Algeria and coastal areas in Tunisia, stabilizing conditions for crops. However, on April 4, minimum temperatures ranged from 0 to -2 degrees C over eastern Algeria, creating the potential for local freeze damage to those winter grains in the flowering stage.



SOUTH AFRICA: Mostly dry, seasonably mild weather dominated the region, favoring maturing corn and promoting early harvests. Corn harvest typically runs through the beginning of June, overlapping winter wheat planting. Moisture is limited in sections of southwestern Cape Province for winter wheat germination, and rain is needed soon to prevent fieldwork delays.

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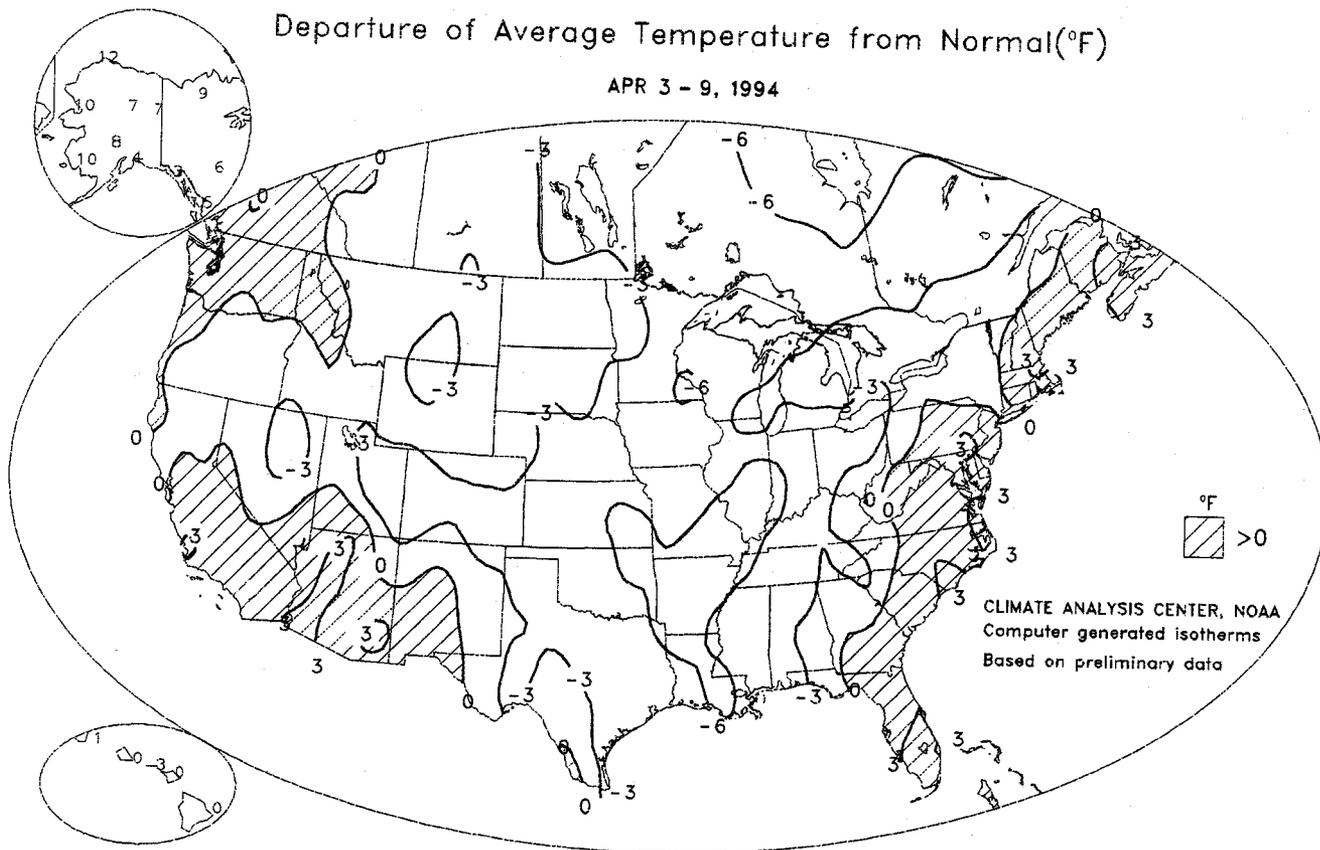
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