

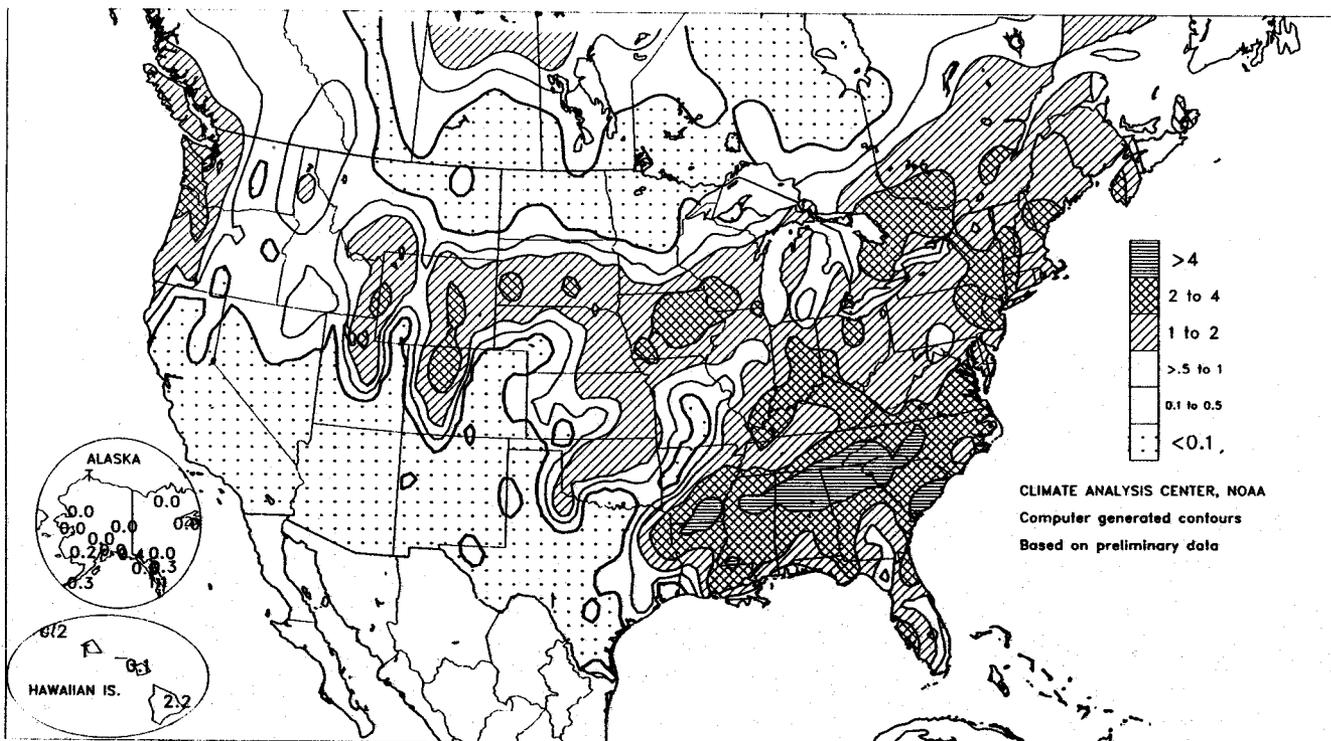
WEEKLY WEATHER AND CROP BULLETIN

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

Total Precipitation (Inches)

APR 27 - MAY 3, 1997



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

HIGHLIGHTS

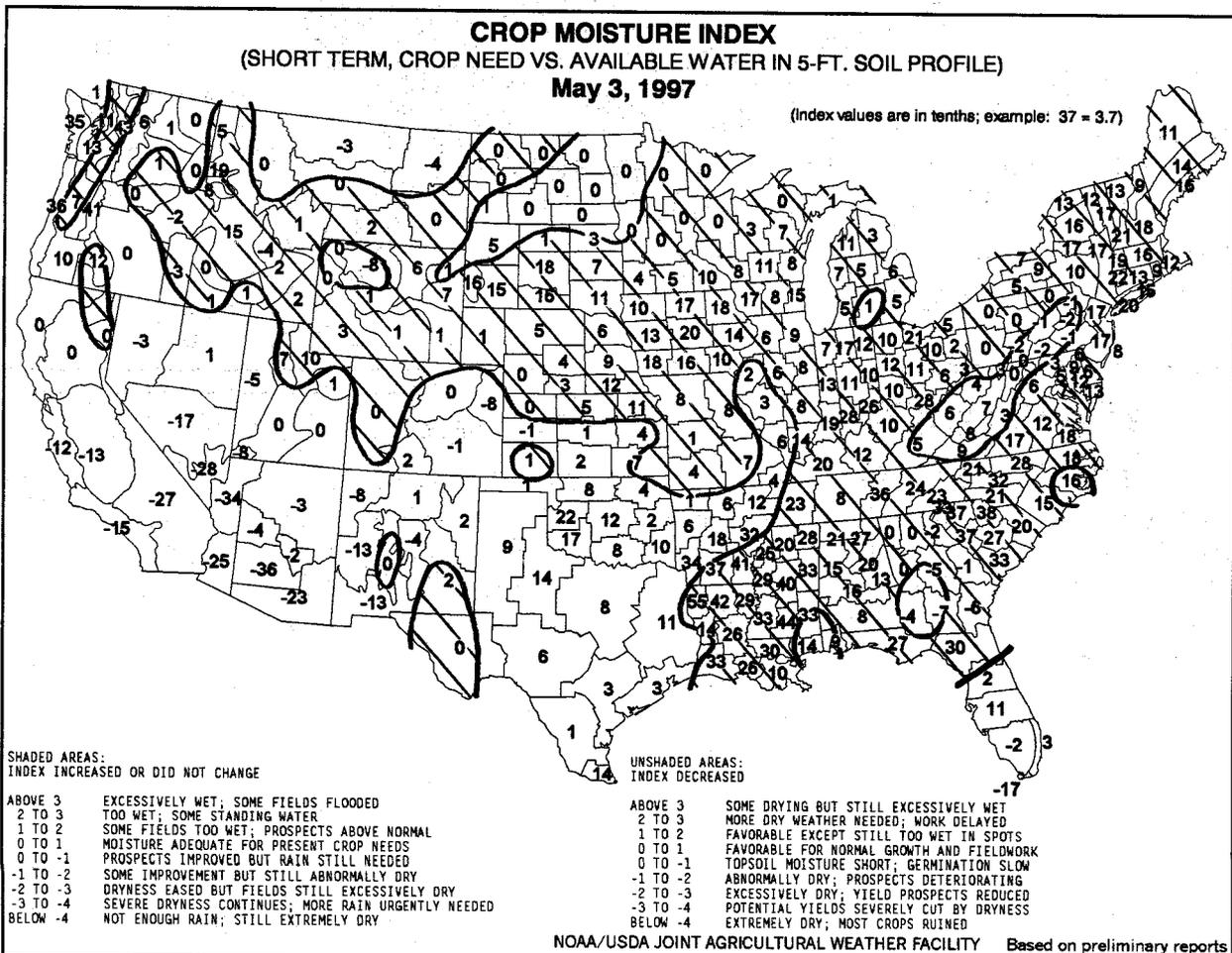
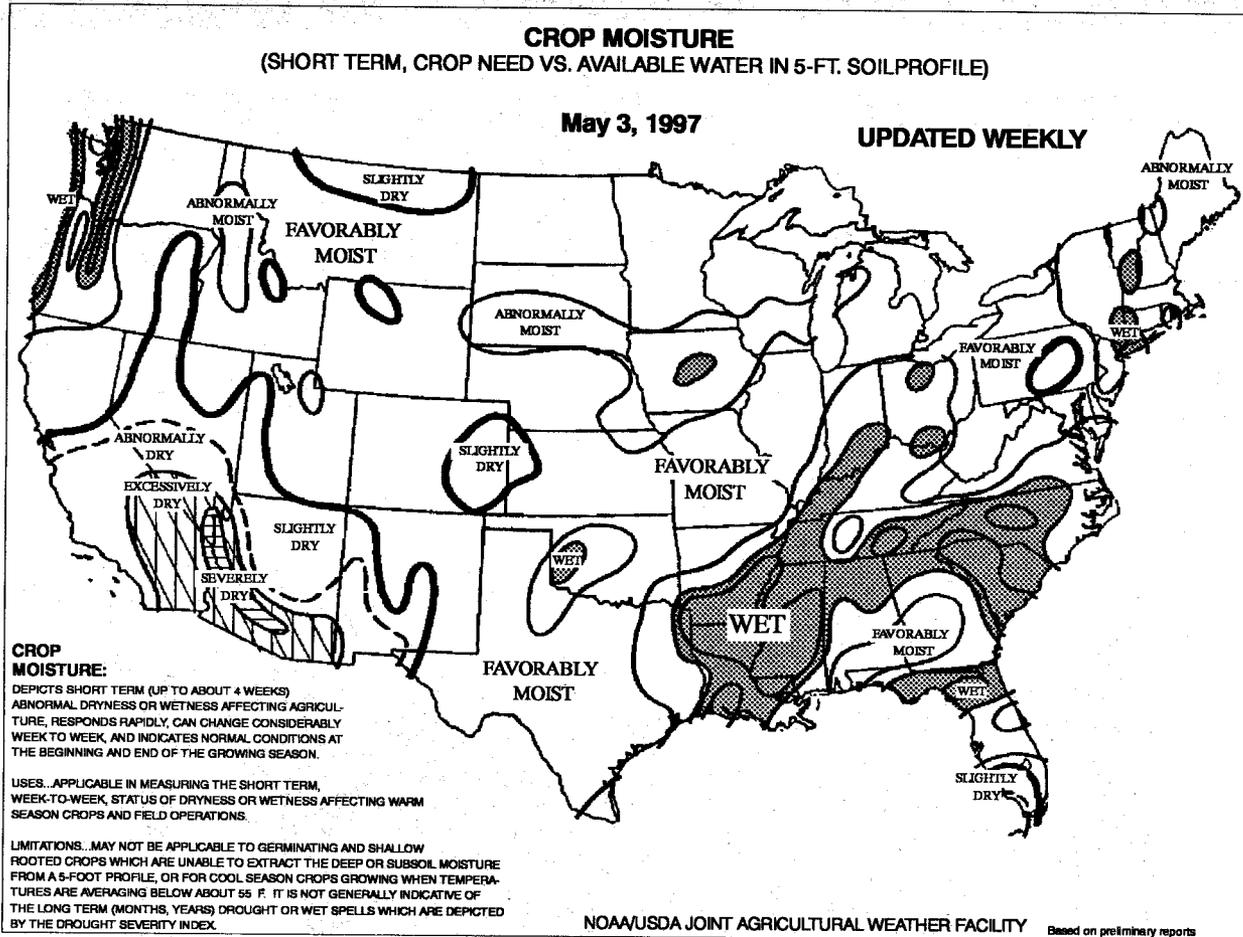
April 27 - May 3, 1997

Corn Belt planting progressed rapidly despite a fourth consecutive week of cool weather (2 to 7°F below normal) and the late-week passage of back-to-back storms. Another week of cool weather on the central High Plains included a light freeze at week's end. Sub-freezing temperatures also dotted the Northwest late in the week. Farther south, strong thunderstorms dumped more than 4 inches of rain in some areas from Arkansas and Louisiana to the Carolinas. Elsewhere across the Southeast, rains continued to ease the effects of a 2-month dry spell. Meanwhile, rainfall across the Midwest and Northeast erased April dryness, improving topsoil moisture.

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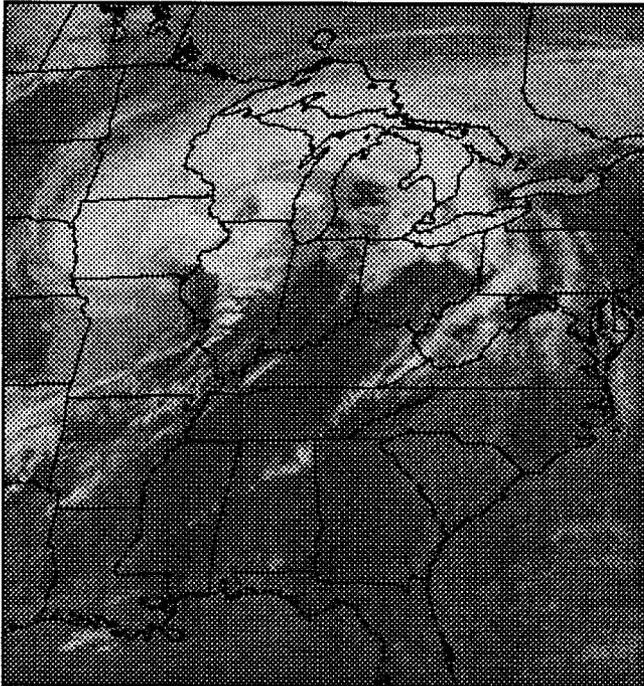
(Continued from front cover)

An early-week storm dropped 1 to 4 inches of rain from the central Gulf Coast to the East Coast. On April 28, Charleston, SC notched a daily-record rainfall of 3.73 inches. On the storm's northern fringe, 6.2 inches of snow blanketed Caribou, ME on April 28, their latest 6-inch snowfall on record. In the storm's wake, cool air cloaked Texas on Monday, producing daily-record lows in locations such as San Angelo (38°F) and San Antonio (48°F).

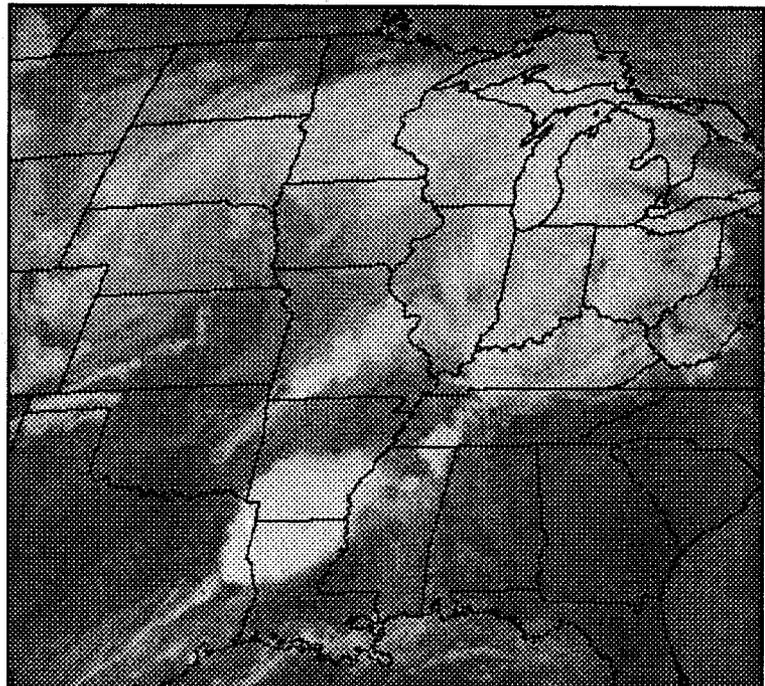
The first of two storms churned through the central Plains and Midwest on April 29-30. The system sparked rainfall in excess of 2 inches across parts of Iowa and southern Wisconsin. On Wednesday, wind gusts reached 60 mph in Springfield, IL and 52 mph in St. Louis, MO. As the storm departed on May 1, Chicago, IL received light snow and Sioux Falls, SD logged a daily-record low of 21°F. The second system arrived on the Plains on Thursday, reaching the

Midwest a day later. Unwelcomed heavy rain soaked South Dakota, while additional precipitation fell across the Midwest. Late in the week, heavy rain returned to areas from Arkansas and Louisiana to the Carolinas, boosting weekly totals to more than 4 inches in locations such as Columbus, GA, Greensboro, NC, and Beaufort, SC.

About a dozen daily-record lows were set across the Northwest on Friday, including 23°F in Ellensburg, WA and 27°F in LaGrande, OR. The chill spread onto the Plains by May 3, producing daily-record lows in Ulysses, KS (29°F) and Pueblo, CO (26°F). Pueblo's minimum was their lowest in May since a 25-degree reading on May 2, 1954. Temperatures dipped below freezing as far south as Dalhart, TX (30°F). In contrast, daily-record warmth dotted Florida, where highs soared to 91°F on Friday in Miami and 93°F on Saturday in Melbourne.



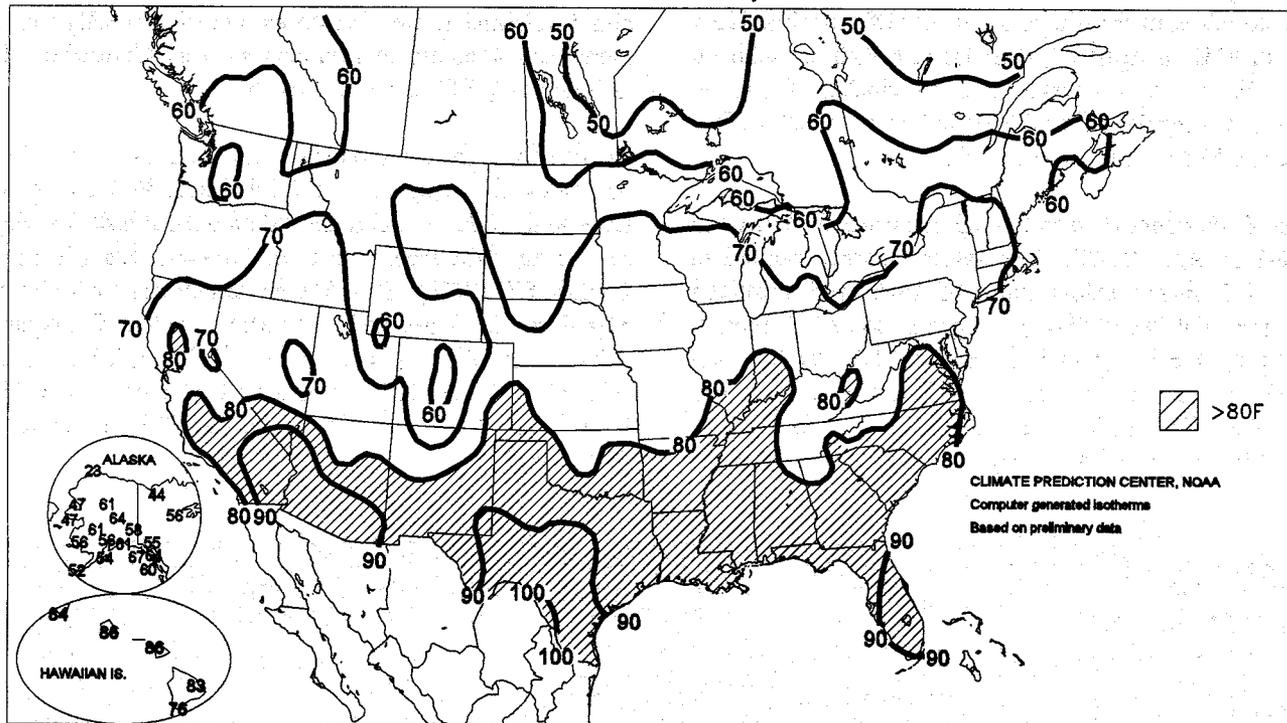
April 30, 1997, 2:45 p.m. CDT



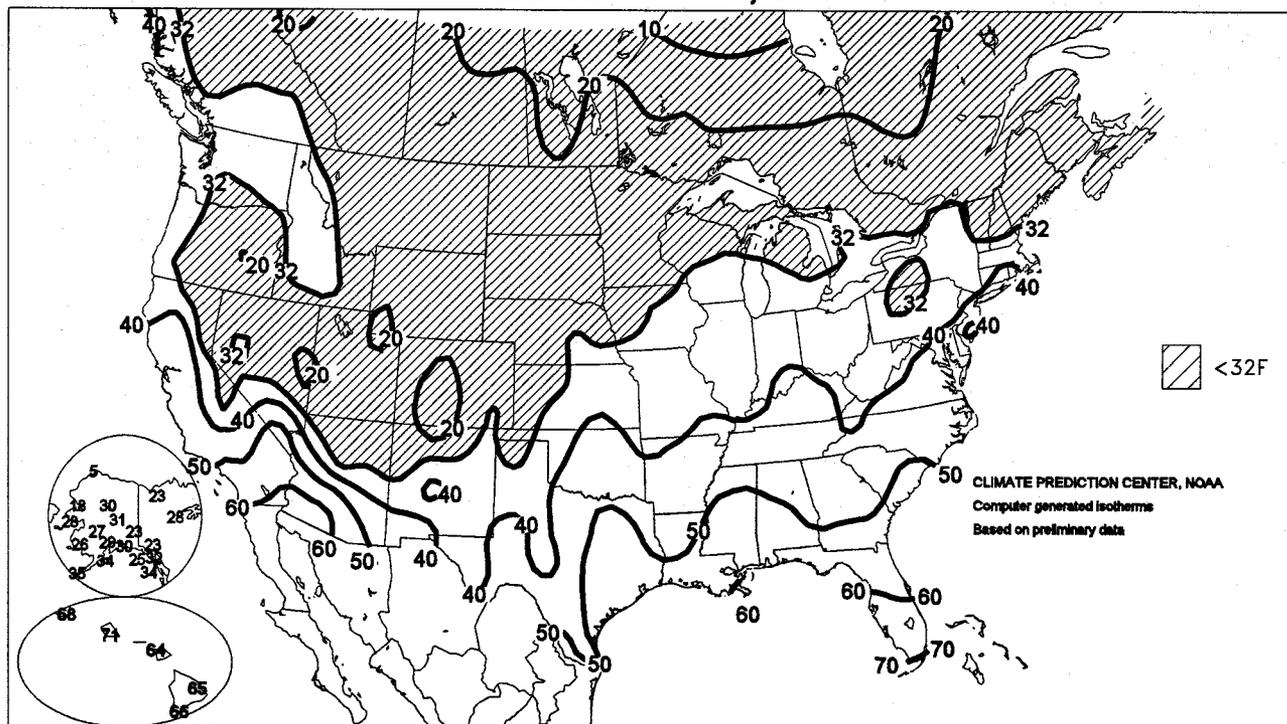
May 2, 1997, 10:45 a.m. CDT

GOES-8 satellite imagery shows a pair of dynamic storms crossing the Plains and Midwest 2 days apart. The latter storm produced more widespread rainfall due to the entrainment of low-level moisture.

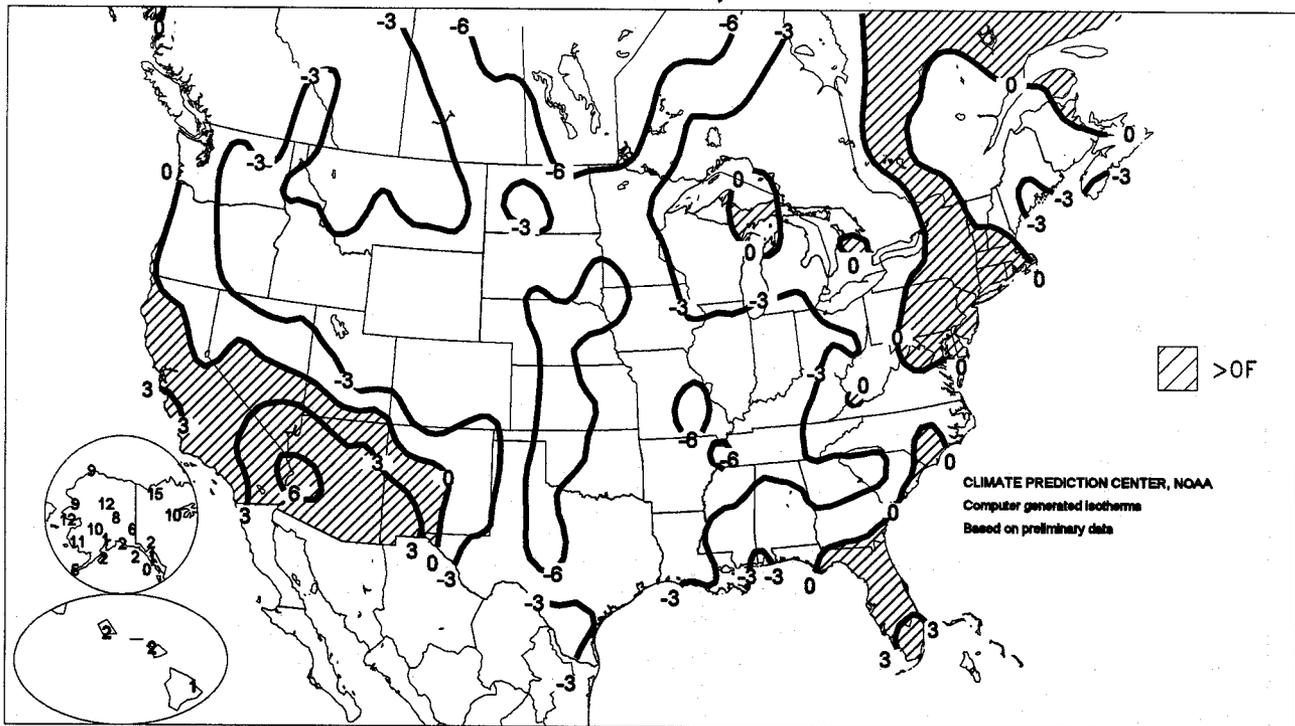
Extreme Maximum Temperature (°F) APR 27 - MAY 3, 1997



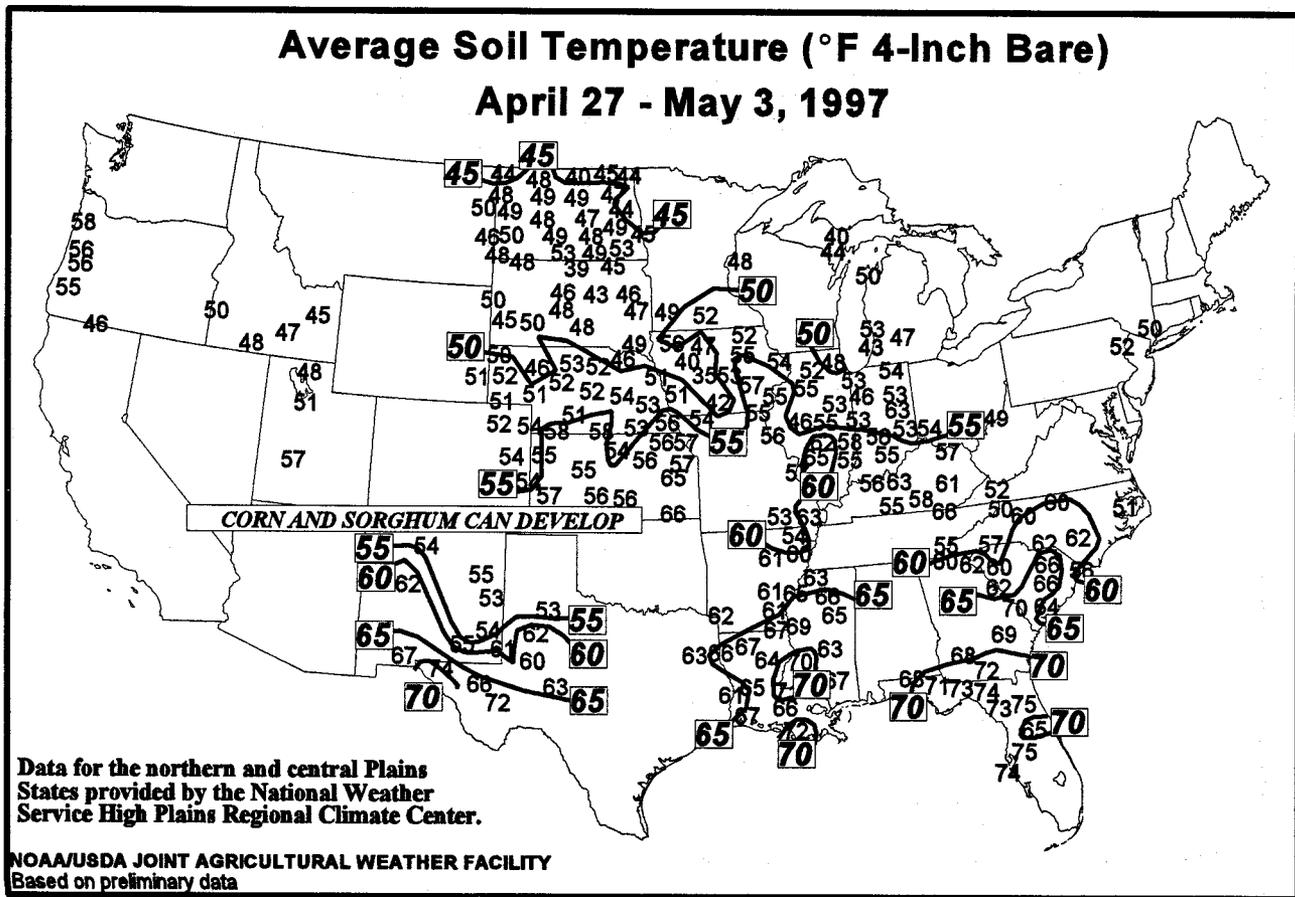
Extreme Minimum Temperature (°F) APR 27 - MAY 3, 1997



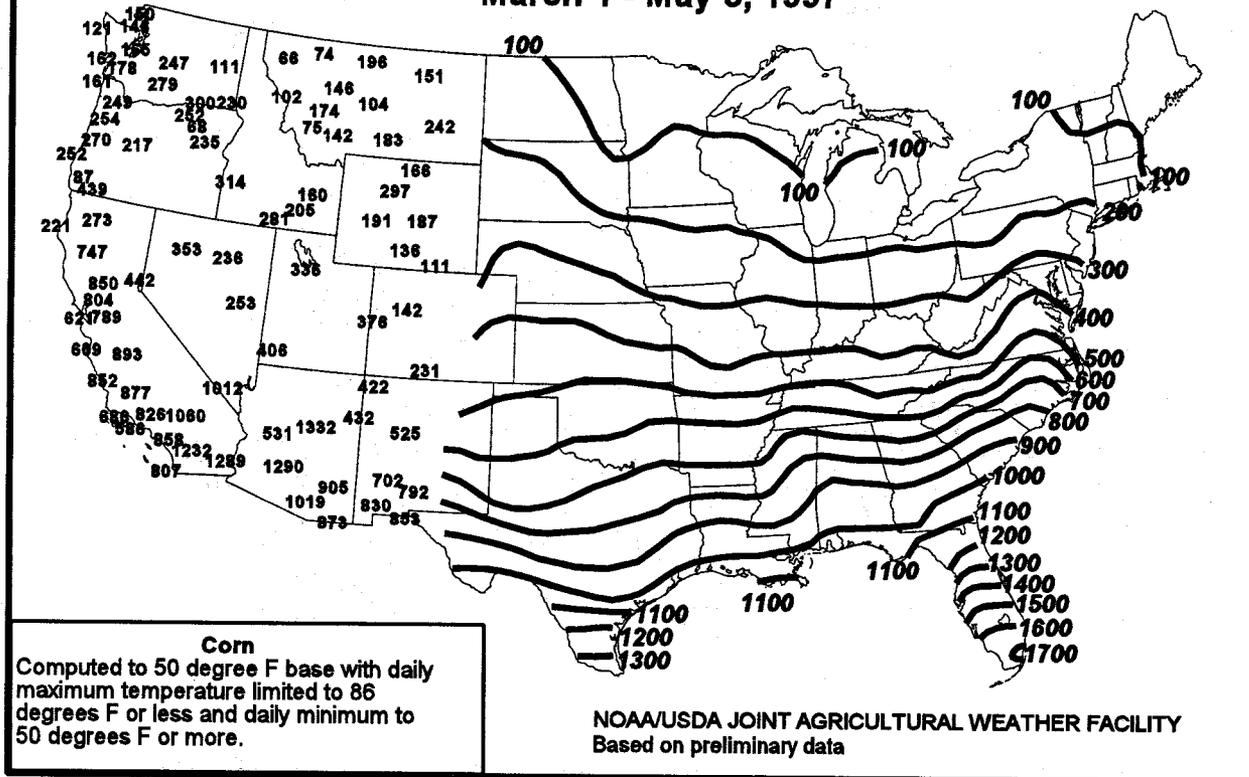
Departure of Average Temperature from Normal (°F) APR 27 - MAY 3, 1997



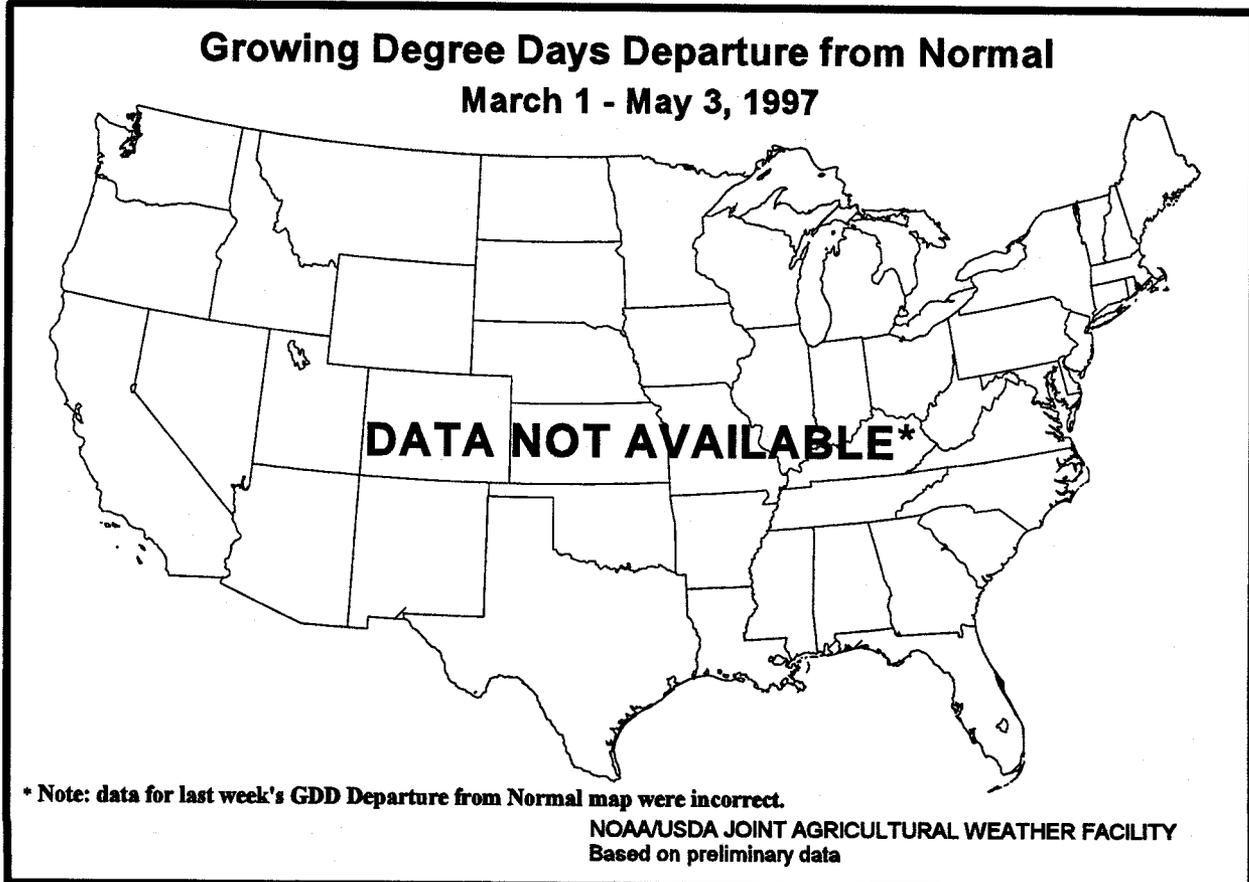
Average Soil Temperature (°F 4-Inch Bare) April 27 - May 3, 1997



Total Growing Degree Days March 1 - May 3, 1997



Growing Degree Days Departure from Normal March 1 - May 3, 1997



National Weather Data for Selected Cities

Weather Data for the Week Ending May 3, 1997

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	92 AND BELOW	PRECIP.	
																		.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	74	53	81	49	63	-2	2.98	1.83	-	9.38	81	20.50	98	-	-	0	0	-	-
AL HUNTSVILLE	70	51	80	47	61	-4	2.95	1.84	1.91	11.75	98	22.49	102	94	67	0	0	4	2
AL MOBILE	76	60	82	58	68	-3	0.70	-0.43	0.64	11.22	99	21.77	101	96	61	0	0	5	1
AL MONTGOMERY	75	56	83	52	66	-2	1.15	0.26	0.56	7.94	73	20.90	98	96	58	0	0	4	1
AK ANCHORAGE	53	33	58	29	43	1	0.00	-0.15	0.00	0.25	17	0.88	29	92	41	0	6	0	0
AK BARROW	21	13	22	4	17	9	0.01	-0.03	0.01	0.17	44	0.24	39	94	87	0	7	1	0
AK FAIRBANKS	61	35	64	31	48	8	0.00	-0.08	0.00	0.09	12	0.68	41	93	36	0	3	0	0
AK JUNEAU	53	35	64	32	44	1	-	-	-	-	-	-	-	-	-	0	1	-	-
AK KODIAK	46	39	54	34	42	2	1.62	0.41	0.44	14.01	150	30.92	141	94	77	0	0	6	0
AK NOME	44	32	47	28	38	12	0.00	-0.15	0.00	1.00	78	2.89	107	94	73	0	4	0	0
AZ FLAGSTAFF	64	31	68	22	48	2	0.00	-0.24	0.00	0.68	16	4.89	59	-	-	0	4	0	0
AZ PHOENIX	91	66	98	82	78	4	0.00	-0.02	0.00	0.02	2	1.47	59	31	13	6	0	0	0
AZ PRESCOTT	74	47	81	36	61	8	0.00	-0.14	0.00	0.75	28	3.81	66	-	-	0	0	0	0
AZ TUCSON	89	59	97	54	74	4	0.00	-0.05	0.00	0.02	2	1.84	64	38	14	2	0	0	0
AZ YUMA	93	67	98	86	80	6	0.00	-0.03	0.00	0.02	5	0.48	51	51	14	7	0	0	0
AR FORT SMITH	74	48	84	42	61	-4	0.20	-0.89	0.13	8.43	100	15.47	120	94	47	0	0	2	0
AR LITTLE ROCK	72	52	83	44	62	-4	1.93	0.65	0.76	15.68	148	22.95	132	-	-	0	0	3	2
CA BAKERSFIELD	79	50	85	46	64	-2	0.00	-0.08	0.00	0.21	13	2.99	84	70	15	0	0	0	0
CA EUREKA	60	47	69	39	54	2	1.09	0.83	0.35	5.91	70	17.28	90	92	38	0	0	6	0
CA FRESNO	80	53	84	48	67	2	0.00	-0.13	0.00	0.12	4	3.50	53	72	14	0	0	0	0
CA LOS ANGELES	71	56	78	55	63	2	0.00	-0.07	0.00	0.00	0	4.21	55	87	40	0	0	0	0
CA REDDING	73	51	79	43	62	1	0.00	-0.34	0.00	4.58	69	14.29	83	-	-	0	0	0	0
CA SACRAMENTO	79	54	84	48	66	-	0.00	-	0.00	0.89	-	8.27	-	-	-	0	0	0	0
CA SAN DIEGO	70	61	74	60	65	2	0.00	-0.09	0.00	0.29	11	3.56	60	87	52	0	0	0	0
CA SAN FRANCISCO	64	51	68	48	58	1	0.01	-0.13	0.01	0.54	12	8.33	69	88	41	0	0	1	0
CO ALAMOSA	60	26	66	17	42	-3	0.13	0.00	0.09	0.26	26	1.63	106	75	23	0	6	3	0
CO COLORADO	61	34	69	28	47	-3	0.00	-0.38	0.00	2.94	128	3.37	113	-	-	0	2	0	0
CO DENVER	62	35	66	26	48	-4	0.02	-0.47	0.02	1.46	46	2.13	50	-	-	0	3	1	0
CO GRAND JUNCTION	67	38	73	29	52	-5	0.28	0.10	0.23	2.88	166	3.59	129	76	23	0	1	3	0
CO PUEBLO	70	34	78	26	52	-5	0.00	-0.24	0.00	2.81	159	3.40	142	83	22	0	3	0	0
CT BRIDGEPORT	63	46	69	42	54	1	2.02	1.13	1.01	8.98	113	14.07	99	-	-	0	0	3	2
CT HARTFORD	65	44	77	38	54	0	2.32	1.39	1.39	7.59	96	12.15	84	80	42	0	0	4	2
DC WASHINGTON	73	51	81	47	62	1	1.68	0.96	1.22	6.95	112	11.95	103	81	49	0	0	3	1
DE WILMINGTON	70	48	75	43	59	2	0.84	0.00	0.39	5.19	72	8.84	67	-	-	0	0	4	0
FL DAYTONA BEACH	84	63	93	56	73	2	0.53	-0.03	0.53	5.18	96	7.67	68	-	-	1	0	1	1
FL JACKSONVILLE	81	62	89	56	72	0	2.06	1.48	1.74	6.46	101	10.64	79	98	59	0	0	3	1
FL KEY WEST	86	77	87	74	82	3	0.86	0.32	0.86	4.62	122	8.85	118	88	70	0	0	1	1
FL MIAMI	87	73	91	69	80	4	0.42	-0.52	0.40	7.28	128	10.48	107	89	63	2	0	2	0
FL ORLANDO	85	65	92	57	75	1	0.78	0.29	0.74	7.48	143	10.99	104	96	62	2	0	2	1
FL TAMPA	83	70	88	65	77	2	1.58	1.21	1.58	11.96	275	13.58	144	92	67	0	0	1	1
FL VALPARAISO/EGLIN	77	60	82	54	69	0	0.73	-0.31	0.56	8.94	80	21.06	107	-	-	0	0	3	1
FL WEST PALM BEACH	86	70	89	63	78	2	0.30	-0.73	0.19	8.28	130	18.98	145	90	61	0	0	3	0
GA ATHENS	72	50	80	42	61	-4	3.57	2.65	1.73	6.94	70	17.80	94	92	58	0	0	3	3
GA ATLANTA	71	52	78	48	61	-4	2.78	1.82	1.67	7.39	71	20.03	100	91	57	0	0	4	2
GA AUGUSTA	76	52	84	41	64	-2	3.07	2.31	1.29	5.80	67	14.10	85	98	56	0	0	4	3
GA COLUMBUS	76	56	84	50	66	-2	4.41	3.47	2.23	9.25	88	19.35	97	-	-	0	0	4	3
GA MACON	76	53	84	46	65	-3	1.50	0.72	0.59	4.99	58	15.46	86	97	55	0	0	3	2
GA SAVANNAH	78	60	87	53	69	-1	3.17	2.42	1.93	5.44	76	10.83	77	97	62	0	0	5	3
HI HILO	82	67	83	65	75	1	2.22	-0.84	1.02	26.35	87	36.51	72	88	59	0	0	6	1
HI HONOLULU	85	72	86	71	78	2	0.02	-0.28	0.02	5.90	153	13.77	143	80	50	0	0	1	0
HI KAHULUI	85	69	86	64	77	2	-	-	-	-	-	-	-	82	52	0	0	-	-
HI LIHUE	75	70	77	68	72	-3	-	-	-	-	-	-	-	85	72	0	0	-	-
ID BOISE	60	39	75	33	50	-3	0.99	0.11	0.33	2.37	89	5.25	102	81	38	0	0	2	0
ID LEWISTON	60	43	63	35	52	-2	0.76	0.48	0.44	4.29	186	7.92	176	-	-	0	0	6	0
ID POCATELLO	56	35	69	31	46	-3	0.68	0.38	0.41	1.51	58	3.48	76	78	38	0	1	4	0
IL CHICAGO/O'HARE	62	41	74	35	52	-2	1.06	0.24	0.51	3.84	58	9.63	101	86	43	0	0	5	1
IL MOLINE	64	43	78	36	54	-2	0.84	-0.12	0.40	3.89	54	9.38	93	-	-	0	0	3	0
IL PEORIA	63	42	73	36	52	-4	0.68	-0.20	0.24	4.28	61	10.54	105	96	45	0	0	4	0
IL ROCKFORD	61	40	75	35	50	-3	1.17	0.32	0.52	3.80	59	7.76	87	-	-	0	0	4	2
IL SPRINGFIELD	66	42	76	35	54	-5	0.79	-0.05	0.73	4.03	56	8.12	77	-	-	0	0	2	1
IN EVANSVILLE	67	45	82	38	56	-5	2.81	1.60	1.51	12.34	134	19.31	129	94	52	0	0	5	2
IN FORT WAYNE	61	40	77	36	51	-4	1.32	0.53	0.73	5.44	82	11.19	108	83	46	0	0	5	1
IN INDIANAPOLIS	64	43	81	37	63	-4	1.24	0.35	0.80	7.85	97	15.06	119	88	44	0	0	4	1
IN SOUTH BEND	61	39	73	30	50	-4	0.93	0.12	0.35	3.97	55	8.78	77	-	-	0	1	5	0
IA BURLINGTON	64	44	74	38	54	-3	0.59	-0.25	0.27	4.19	63	10.24	113	-	-	0	0	4	0
IA CEDAR RAPIDS	63	43	75	34	53	-2	1.98	1.19	1.53	3.72	64	7.41	94	-	-	0	0	2	1
IA DES MOINES	63	43	74	32	53	-3	2.83	1.72	1.82	5.78	94	6.89	82	83	41	0	1	3	2
IA DUBUQUE	60	41	73	33	50	-3	1.89	1.09	2.10	5.05	72	8.83	92	88	45	0	0	3	2
IA SIOUX CITY	63	36	79	25	49	-7	0.89	0.21	0.49	3.58	78	4.52	77	92	39	0	2	4	0
IA WATERLOO	63	39	75	31	51	-3	1.72	0.86	1.08	4.54	76	6.28	80	-	-	0	1	3	2
KS CONCORDIA	66	41	78	35	63	-4	1.42	0.89	1.07	3.23	66	4.76	77	86	39	0	0	3	1
KS DODGE CITY	67	39	78	34	63	-6	0.13	-0.45	0.12	2.02	52	3.24	65	88	37	0	0	2	0
KS GOODLAND	67	35	81	28	51	-8	0.38	-0.16	0.22	0.83	30	1.88	53	84	32	0	3	5	0
KS TOPEKA	68	42	76	34	55	-5	0.67	-0.16	0.31	5.65	96	8.52	108	86	34	0	0	3	0

Based on 1961-90 normals

Weather Data for the Week Ending May 3, 1997

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	01 INCH OR MORE	50 INCH OR MORE
KY WICHITA	68	42	77	37	56	-7	0.47	-0.32	0.47	4.76	82	7.28	93	88	35	0	0	0	0	0	0
JACKSON	88	47	80	43	58	-2	1.14	0.17	0.39	11.99	131	17.95	107	71	46	0	0	5	1	0	0
LEXINGTON	65	45	78	40	55	-4	2.80	1.84	1.00	16.94	194	24.93	188	86	46	0	0	5	2	0	0
LOUISVILLE	68	48	82	45	58	-2	1.81	0.79	0.99	20.64	221	29.30	188	85	44	0	0	4	1	0	0
PADUCAH	67	48	82	40	58	-4	3.85	2.69	3.30	14.61	141	22.55	128	71	44	0	0	3	1	0	0
LA BATON ROUGE	77	61	85	56	69	-3	3.30	2.08	1.76	14.70	137	28.34	134	71	44	0	0	2	2	0	0
LAKE CHARLES	76	61	84	50	68	-3	0.71	-0.33	0.89	11.51	162	24.78	163	96	62	0	0	2	1	0	0
NEW ORLEANS	76	63	82	58	70	-2	1.15	0.15	0.83	6.95	71	19.51	93	91	59	0	0	2	2	0	0
SHREVEPORT	74	58	83	45	65	-4	3.01	1.88	1.65	22.30	261	34.86	206	92	60	0	0	3	2	0	0
ME CARIBOU	52	32	64	24	42	-2	0.85	0.22	0.31	3.86	75	9.89	102	90	47	0	5	4	0	0	0
PORTLAND	55	37	61	32	46	-2	1.92	1.02	1.18	9.52	117	14.56	97	87	44	0	1	3	2	0	0
MD BALTIMORE	72	47	80	39	60	1	1.84	1.02	1.03	8.66	127	13.73	106	71	44	0	0	4	1	0	0
MA BOSTON	64	46	74	42	55	2	0.78	-0.01	0.49	8.00	105	11.50	78	89	37	0	0	3	0	0	0
WORCESTER	61	42	72	39	51	1	1.18	0.23	0.57	6.64	104	13.70	89	71	44	0	0	3	2	0	0
MI ALPENA	58	36	71	24	46	0	0.82	0.26	0.46	4.69	102	10.83	144	91	37	0	2	4	0	0	0
GRAND RAPIDS	61	40	71	35	50	-1	0.69	-0.07	0.28	3.46	55	10.19	106	84	41	0	0	5	0	0	0
HOUGHTON LAKE	58	36	66	29	47	-2	0.90	0.36	0.37	3.42	77	7.69	108	87	41	0	2	4	0	0	0
LANSING	60	37	69	32	49	-2	0.43	-0.24	0.15	3.96	73	9.02	112	71	44	0	1	5	0	0	0
MARQUETTE	55	34	68	28	44	0	0.13	-0.50	0.08	4.32	76	11.82	124	92	35	0	4	3	0	0	0
MUSKEGON	59	38	70	34	48	-2	0.95	0.30	0.53	3.26	57	8.53	90	87	46	0	0	3	1	0	0
MN DULUTH	54	32	64	28	43	-2	0.35	-0.23	0.31	1.62	37	3.12	49	91	42	0	3	3	0	0	0
INT'L FALLS	63	27	63	22	40	-8	0.07	-0.37	-	2.49	88	3.40	79	91	34	0	7	-	-	-	-
MINNEAPOLIS	61	37	72	28	49	-4	0.35	-0.30	0.19	2.42	52	4.23	85	81	31	0	2	4	0	0	0
ROCHESTER	59	38	71	31	48	-3	1.42	0.70	0.85	4.45	92	6.89	109	88	43	0	2	5	1	0	0
ST. CLOUD	60	34	70	27	47	-3	0.18	-0.43	0.11	1.89	47	3.86	72	83	31	0	4	2	0	0	0
MS JACKSON	75	57	84	52	66	-2	3.40	2.11	2.55	10.83	90	22.01	99	96	58	0	0	4	2	0	0
MERIDIAN	75	55	86	51	65	-3	3.45	2.32	2.80	12.12	96	22.70	98	98	62	0	0	4	1	0	0
TUPELO	70	53	80	48	62	-6	3.69	2.42	2.80	14.12	119	24.83	115	119	62	0	0	5	2	0	0
MO COLUMBIA	68	42	74	36	54	-4	0.40	-0.60	0.26	4.96	69	12.09	115	87	43	0	0	3	0	0	0
KANSAS CITY	67	43	74	35	55	-4	0.61	-0.33	0.29	5.99	99	9.30	113	84	39	0	0	3	0	0	0
SAINT LOUIS	68	44	79	40	55	-6	0.66	-0.19	0.42	6.01	81	12.78	112	91	42	0	0	3	0	0	0
SPRINGFIELD	67	42	74	34	55	-5	1.27	0.29	1.03	7.89	96	13.01	110	93	41	0	0	3	1	0	0
MT BILLINGS	58	38	74	33	48	-2	0.57	0.05	0.38	1.97	63	2.93	82	83	38	0	0	3	0	0	0
BUTTE	50	30	65	26	40	-2	0.75	0.44	0.30	3.04	166	5.18	188	71	44	0	6	5	0	0	0
GLASGOW	60	34	72	28	47	-3	0.43	0.15	0.43	2.28	187	2.63	141	87	30	0	2	1	0	0	0
GREAT FALLS	57	34	68	29	45	-3	0.61	0.16	0.57	2.42	89	2.85	68	71	44	0	2	1	0	0	0
KALISPELL	54	35	61	31	44	-3	0.66	0.33	0.48	3.27	147	6.31	130	90	38	0	3	5	0	0	0
MILES CITY	63	37	75	28	50	-2	0.03	-0.38	0.03	1.61	75	1.91	61	88	37	0	2	1	0	0	0
MISSOULA	55	36	69	32	46	-2	0.16	-0.14	0.08	3.27	158	5.71	139	88	37	0	2	3	0	0	0
NE GRAND ISLAND	65	37	77	33	51	-6	1.16	0.44	0.83	2.26	48	3.32	56	90	37	0	0	4	1	0	0
LINCOLN	66	39	78	32	53	-4	1.58	0.79	0.88	4.06	78	4.99	77	82	37	0	1	4	1	0	0
NORFOLK	61	36	75	29	48	-7	1.00	0.34	0.52	3.48	78	4.46	78	92	36	0	2	5	1	0	0
NORTH PLATTE	63	34	69	25	48	-5	0.09	-0.54	0.07	0.23	7	0.90	21	89	43	0	3	3	0	0	0
OMAHA	65	42	77	31	53	-4	0.99	0.16	-	4.38	86	5.54	84	91	41	0	1	-	-	-	-
SCOTTSBLUFF	61	36	72	27	48	-3	0.50	0.00	0.42	4.23	146	4.85	126	71	44	0	3	3	0	0	0
VALENTINE	57	36	65	27	46	-6	0.82	0.06	0.31	3.18	107	3.69	101	89	39	0	2	3	0	0	0
NV ELY	59	29	68	17	44	-1	0.04	-0.21	0.03	1.08	53	2.97	87	79	23	0	5	2	0	0	0
LAS VEGAS	85	62	91	56	74	5	0.00	-0.06	0.00	0.04	6	0.24	15	33	11	2	0	0	0	0	0
RENO	66	37	73	31	52	0	0.00	-0.12	0.00	0.02	2	4.03	125	66	24	0	2	0	0	0	0
NH WINNEMUCCA	62	34	75	31	48	-2	0.54	0.35	0.30	1.98	115	3.62	118	79	28	0	4	3	0	0	0
NJ CONCORD	63	36	77	28	49	0	1.19	0.48	0.81	6.92	117	12.35	112	71	44	0	3	3	1	0	0
NM NEWARK	70	48	76	46	59	2	1.80	0.86	0.83	9.11	112	14.76	101	83	37	0	0	4	2	0	0
NM ALBUQUERQUE	72	48	76	44	60	1	0.00	-0.10	0.00	1.76	157	2.43	120	58	15	0	0	0	0	0	0
NY ALBANY	63	41	76	34	52	0	1.59	0.87	0.78	6.67	107	9.03	83	83	37	0	0	4	2	0	0
BINGHAMTON	62	38	73	35	50	0	1.78	1.04	0.82	5.95	95	8.82	80	83	53	0	0	5	2	0	0
BUFFALO	62	39	72	35	50	-1	0.91	0.23	0.38	9.35	160	16.56	152	84	40	0	0	5	0	0	0
ROCHESTER	64	39	76	36	51	0	0.70	0.08	0.28	8.22	159	12.75	137	71	44	0	0	3	0	0	0
SYRACUSE	64	40	76	36	52	0	1.40	0.64	0.77	5.56	86	8.99	82	84	37	0	0	4	1	0	0
NC ASHEVILLE	68	48	77	39	58	-1	2.07	1.11	0.93	11.52	115	21.17	115	71	44	0	0	5	2	0	0
CHARLOTTE	72	53	82	50	62	-1	3.39	2.89	1.35	8.49	114	15.85	106	90	53	0	0	4	3	0	0
GREENSBORO	67	49	78	46	58	-4	4.29	3.53	2.31	12.31	179	18.10	135	92	55	0	0	4	3	0	0
HATTERAS	67	57	75	46	61	-2	3.20	2.36	2.75	9.48	116	16.97	96	91	64	0	0	3	1	0	0
RALEIGH	72	50	84	43	61	-2	3.67	2.96	1.17	9.49	141	15.44	111	91	61	0	0	5	3	0	0
WILMINGTON	72	57	80	47	65	0	2.06	1.31	1.14	5.30	68	12.15	72	81	37	0	0	5	2	0	0
ND BISMARCK	60	35	65	26	48	-2	0.30	-0.15	0.13	4.30	163	5.72	162	91	34	0	2	4	0	0	0
DICKINSON	59	33	67	28	46	-2	0.33	-0.19	0.18	4.22	151	5.20	148	71	44	0	3	2	0	0	0
FARGO	57	35	69	30	46	-4	0.09	-0.41	0.06	2.30	74	2.93	69	84	39	0	3	2	0	0	0
GRAND FORKS	54	35	66	30	44	-5	0.06	-0.32	0.06	1.64	67	2.53	69	71	44	0	3	1	0	0	0
JAMESTOWN	58	36	64	22	47	-3	0.09	-0.29	0.08	2.54	99	3.59	99	83	37	0	2	2	0	0	0
WILLISTON	58	33	64	27	46	-4	0.09	-0.28	0.05	1.21	57	1.65	53	90	33	0	3	2	0	0	0
OH AKRON-CANTON	63	39	75	33	51	-3	1.18	0.38	0.42	5.20	76										

Weather Data for the Week Ending May 3, 1997

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	01 INCH OR MORE	50 INCH OR MORE
OK TOLEDO	61	40	75	34	50	-3	1.79	1.12	1.10	4.69	80	11.30	121	85	44	0	0	6	1		
OK YOUNGSTOWN	84	37	74	31	51	-2	0.53	-0.21	0.26	5.72	88	7.10	66	88	41	0	2	5	0		
OK OKLAHOMA CITY	71	47	78	43	59	-6	1.12	0.20	1.10	6.12	104	8.73	102	87	41	0	0	2	1		
OR TULSA	72	47	79	42	60	-6	0.58	-0.50	0.47	6.18	81	9.84	88	85	37	0	0	2	0		
OR ASTORIA	57	44	65	39	50	0	2.59	1.76	0.82	22.59	189	38.73	131	91	49	0	0	7	3		
OR BURNS	56	31	68	20	44	-3	0.33	0.15	0.28	1.26	72	4.08	117	86	31	0	3	3	0		
OR EUGENE	60	42	69	35	51	-2	0.76	0.20	0.42	10.49	118	18.48	82	96	44	0	0	5	0		
OR MEDFORD	63	43	73	34	53	-1	0.53	0.29	0.23	1.98	64	6.51	84	87	34	0	0	4	0		
OR PENDLETON	59	41	67	31	50	-4	0.19	-0.06	0.09	2.36	100	3.78	76	86	40	0	1	5	0		
OR PORTLAND	58	46	66	40	52	-1	1.06	0.56	0.48	11.06	179	19.83	129	90	50	0	0	7	0		
OR SALEM	59	42	66	37	51	-1	0.42	-0.04	0.11	10.91	160	22.05	128	-	-	0	0	5	0		
PA ALLENTOWN	69	44	73	33	57	2	1.54	0.64	0.67	6.09	85	10.06	76	81	38	0	0	4	2		
PA ERIE	62	40	75	36	51	0	1.07	0.31	0.43	8.85	135	14.15	128	87	50	0	0	5	0		
PA MIDDLETOWN	72	47	79	39	60	3	0.59	-0.27	0.30	4.51	65	7.98	63	-	-	0	0	3	0		
PA PHILADELPHIA	70	48	74	43	59	2	1.77	0.92	0.91	7.91	106	13.38	99	78	51	0	0	4	2		
PA PITTSBURGH	66	40	76	32	53	-2	0.98	0.22	0.43	5.29	77	8.36	71	86	36	0	1	4	0		
PA SCRANTON	67	43	76	36	56	1	1.12	0.36	0.61	4.88	84	7.48	74	78	38	0	0	4	1		
PA WILLIAMSPORT	68	42	76	33	55	0	1.87	1.07	0.78	5.30	78	7.92	66	84	40	0	0	5	2		
RI PROVIDENCE	63	45	71	41	54	2	1.01	0.09	0.53	8.41	98	14.52	91	84	46	0	0	3	1		
SC BEAUFORT	77	61	85	55	69	0	4.83	4.14	2.78	8.22	113	12.62	88	-	-	0	0	3	2		
SC CHARLESTON	78	60	85	56	69	0	5.49	4.84	3.69	9.53	131	14.41	103	97	62	0	0	4	3		
SC COLUMBIA	73	53	82	44	63	-4	2.99	2.26	1.18	6.47	77	15.61	92	95	53	0	0	4	3		
SD GREENVILLE	70	51	81	47	61	-3	3.01	2.12	1.35	6.76	70	17.83	97	91	54	0	0	5	3		
SD ABERDEEN	59	36	68	30	48	-4	0.80	0.26	0.62	2.38	75	4.60	104	87	31	0	1	2	1		
SD HURON	60	38	71	32	49	-3	1.51	0.95	0.97	3.72	93	5.06	100	89	43	0	1	3	1		
SD RAPID CITY	55	34	68	28	45	-6	2.29	1.76	1.22	6.55	208	7.42	184	87	46	0	3	5	2		
SD SIOUX FALLS	60	33	75	21	47	-7	1.15	0.50	0.60	3.96	76	5.13	92	94	45	0	3	4	1		
TN BRISTOL	70	47	79	37	59	-1	1.48	0.67	0.61	9.77	133	17.84	127	-	-	0	0	7	1		
TN CHATTANOOGA	70	51	79	45	61	-2	3.42	2.45	1.57	11.56	107	22.94	112	97	55	0	0	5	4		
TN KNOXVILLE	71	50	81	43	61	-1	3.21	2.35	1.30	11.78	128	21.87	125	95	53	0	0	6	3		
TN MEMPHIS	89	52	79	46	61	-8	2.01	0.78	0.83	22.76	199	34.76	178	-	-	0	0	4	2		
TN NASHVILLE	69	48	79	44	59	-5	1.34	0.27	0.61	12.19	126	19.28	113	97	56	0	0	4	1		
TX ABILENE	77	50	91	40	64	-5	0.00	-0.56	0.00	3.97	113	7.56	133	81	37	1	0	0	0		
TX AMARILLO	72	41	85	32	57	-4	0.40	0.05	0.40	6.45	306	7.56	235	87	29	0	1	1	0		
TX AUSTIN	79	59	93	52	69	-4	0.24	-0.83	0.24	7.18	148	12.12	139	81	44	1	0	1	0		
TX BEAUMONT	77	61	84	54	69	-3	0.14	-0.91	0.08	9.20	127	19.83	129	-	-	0	0	4	0		
TX BROWNSVILLE	83	65	89	50	74	-4	0.14	-0.40	0.14	10.73	461	11.76	238	96	47	0	0	1	0		
TX CORPUS CHRISTI	85	63	93	50	74	-2	0.06	-0.53	0.08	9.64	326	10.92	166	90	49	1	0	1	0		
TX DEL RIO	86	57	97	42	72	-3	0.00	-0.50	0.00	6.59	230	8.83	202	87	29	3	0	0	0		
TX EL PASO	83	56	88	42	70	2	0.00	-0.04	0.00	1.27	235	1.98	146	42	16	0	0	0	0		
TX FORT WORTH	76	54	89	50	65	-3	0.00	-1.08	0.00	8.94	124	16.62	145	86	50	0	0	0	0		
TX GALVESTON	76	65	79	56	70	-3	0.02	-0.85	0.02	17.23	349	24.20	231	-	-	0	0	1	0		
TX HOUSTON	79	60	85	52	70	-2	0.76	-0.21	0.63	15.24	232	23.91	186	90	54	0	0	2	1		
TX LUBBOCK	78	46	88	36	61	-4	0.00	-0.36	0.00	5.77	288	7.35	240	78	27	0	0	0	0		
TX MIDLAND	81	51	91	44	68	-3	0.00	-0.36	0.00	2.30	163	4.19	172	76	24	1	0	0	0		
TX SAN ANGELO	79	49	89	38	64	-7	0.00	-0.56	0.00	5.37	190	10.25	218	84	36	0	0	0	0		
TX SAN ANTONIO	81	59	93	49	70	-2	0.00	-0.78	0.00	7.17	164	9.89	125	81	42	1	0	0	0		
TX VICTORIA	79	62	85	53	71	-3	0.20	-0.59	0.19	23.33	541	28.76	339	90	51	0	0	2	0		
TX WACO	77	54	88	50	66	-5	0.02	-0.91	0.02	9.21	155	19.52	202	86	50	0	0	1	0		
UT WICHITA FALLS	74	49	86	43	62	-5	0.00	-0.83	0.00	4.43	79	7.64	95	87	40	0	0	0	0		
UT SALT LAKE CITY	62	41	74	33	52	-2	0.70	0.22	0.33	2.05	48	5.95	90	81	31	0	0	5	0		
VT BURLINGTON	61	38	72	30	49	-1	0.94	0.26	0.42	4.68	89	7.56	87	82	36	0	1	3	0		
VA LYNCHBURG	68	45	78	39	57	-3	0.95	0.15	0.49	8.00	115	14.67	115	94	46	0	0	4	0		
VA NORFOLK	70	51	83	44	60	-1	1.33	0.56	0.56	6.22	86	11.11	78	91	52	0	0	4	1		
VA RICHMOND	71	50	79	44	60	-1	2.86	2.10	1.17	7.50	109	13.14	99	87	20	0	0	6	3		
VA ROANOKE	69	48	77	45	59	-1	0.94	0.10	0.78	5.81	82	11.37	89	88	40	0	0	3	1		
VA WASH/DULLES	72	45	80	38	58	1	1.08	0.27	0.89	6.97	105	10.64	88	81	19	0	0	3	1		
WA HANFORD	65	42	68	30	53	-	0.01	-0.11	0.01	1.03	112	2.79	120	71	23	0	1	1	0		
WA OLYMPIA	57	41	65	32	49	-1	1.16	0.57	0.50	16.12	190	30.09	135	-	-	0	1	7	1		
WA QUILLAYUTE	55	40	63	34	47	-1	2.41	0.96	0.55	42.17	215	68.91	148	96	49	0	0	7	3		
WA SEATTLE-TACOMA	55	44	64	38	50	-2	1.14	0.70	0.48	16.70	278	25.71	167	91	45	0	0	6	0		
WA SPOKANE	53	39	59	36	46	-4	0.74	0.46	0.29	5.02	179	8.09	129	88	38	0	0	5	0		
WA YAKIMA	62	39	63	30	50	-3	0.00	-0.11	0.00	0.89	74	2.23	71	81	28	0	1	0	0		
WV BECKLEY	66	41	76	34	53	-2	1.06	0.21	0.59	8.93	124	13.45	103	89	44	0	0	4	1		
WV CHARLESTON	71	44	81	39	57	-2	1.91	1.08	1.03	11.87	162	15.13	114	88	34	0	0	5	1		
WV ELKINS	66	36	77	30	51	-2	1.07	0.17	0.72	9.76	122	13.89	99	-	-	0	2	4	1		
WV HUNTINGTON	70	44	80	40	57	0	1.44	0.53	0.97	10.48	139	14.08	103	88	35	0	0	5	1		
WI EAU CLAIRE	61	38	74	31	50	-2	0.62	-0.15	0.42	2.67	55	4.48	68	-	-	0	2	3	0		
WI GREEN BAY	61	36	74	33	49	-2	1.83	1.24	1.37	4.30	92	6.90	100	95	47	0	0	5	1		
WI MADISON	61	40	72	34	51	-2	1.73	0.98	1.23	4.54	80	7.97	102	84	34	0	0	4	1		
WI MILWAUKEE	59	39	75	37	49	0	1.64	0.89	1.08	3.19	49	7.16	75	-	-	0	0	3	2		
WY CASPER	54	32	70	26	43	-5	1.06	0.61	0.61	2.26	84	3.36	87	91	45	0	3	5	1		
WY CHEYENNE	55	33	64	26	44	-3	0.20	-0.24	0.12	0.93	36	1.64	49	84	33	0	5	3	0		
WY LANDER	55	32	66	27	43	-5	0.81	0.26	0.65	2.74	79	3.33	74	84	40	0	5	2	1		
WY SHERIDAN	55	33	74	27	44	-4	1.16	0.67	0.56	2.43	64	3.33	77	88	48	0	3	4	1		

Based on 1961-90 normals

Note: These data are preliminary and subject to change. In the past, precipitation totals from a number of stations have been incomplete.

April Weather Summary

A month of major storms and massive runoff resulted in an April filled with temperature and rainfall/snowfall records, freeze damage, and unprecedented flooding. A prolonged cold snap in the wake of an early-April blizzard damaged jointing- to heading-stage winter wheat from southern Kansas to northern Texas, and helped to hold monthly temperatures 4 to 8°F below normal throughout the Plains. Monthly readings ranged from 2 to 6°F below normal across the East and Midwest. Only the Desert Southwest, southern Florida, and the immediate West Coast experienced above-normal temperatures.

The early-month blizzard added an unwelcomed 1 to 3 inches of moisture to the James and Red River basins, where major-to-record flooding was already anticipated. In eastern South Dakota, most crests on the James River occurred during the first 7 days of the month due to late-March snowmelt. The Red River surged to record levels after snowmelt began anew around mid-month. In Grand Forks, ND, where floodwaters overwhelmed most of the city, the Red River crested on April 22, 5.3 feet higher than ever before observed. The record-setting Red River crest moved from Wahpeton, ND, on April 15, to Pembina, ND, on April 28. From Anoka, MN to Lansing, IA, water levels peaked on the main-stem Mississippi River between April 10 and 15, exceeding those observed during June 1993, but remaining 2.1 to 4.6 feet below all-time records set in April 1965.

The severe freeze on the Plains resulted in several records. On April 12, minima dipped to April-record levels in Casper, WY (-6°F), Pueblo, CO (2°F), and Russell, KS (14°F). In Texas, lows of 27°F in Abilene (on April 13) and San Angelo (on April 14) were their respective lowest readings so late in the spring. Texas' cloudy, cool regime resulted in several April average-temperature records:

<u>Texas Location</u>	<u>Average/Departure</u>	<u>Former Record/Year</u>
San Angelo	59.2°F, -7.6°	60.6°F in 1973
Dallas-Ft. Worth	60.4°F, -3.8°	60.6°F in 1983
Waco	60.6°F, -6.5°	61.1°F in 1973
San Antonio	63.9°F, -5.5°	64.2°F in 1931

Three days before the cold weather peaked on the Plains, an April-record chill dotted the Midwest. On April 9, monthly records were tied or broken in Cincinnati, OH (15°F), Champaign, IL (16°F), and Indianapolis, IN (18°F). A day later, temperatures in the lower- to mid-20's damaged some fruit-tree blooms in the Middle Atlantic region. Farther south, frost and near-freezing temperatures on April 1-2, 9-10, and 14-15 resulted in scattered damage to blooms across the Southeast. At many locations, the persistent chill held temperatures to the lowest April levels in many years, including:

<u>Location</u>	<u>Average/Departure</u>	<u>Coollest April Since...</u>
Pittsburgh, PA	46.2°F, -3.5°	45.3°F in 1982
Grand Junction, CO	46.5°F, -5.7°	46.4°F in 1975
Louisville, KY	50.1°F, -6.2°	49.2°F in 1961
Evansville, IN	50.5°F, -5.7°	47.8°F in 1907
Wichita, KS	51.0°F, -5.4°	48.0°F in 1983
Abilene, TX	58.9°F, -6.1°	58.7°F in 1973

After a relatively placid winter, unsettled weather returned to the Northeast in the form of two major storms (March 31 - April 1 and April 18-19). On March 31 - April 1 in Massachusetts, an all-time record 33.0 inches of snow fell in Worcester, while 30.0 inches, accompanied by wind gusts to 73 mph, blanketed Milton (Blue Hill Observatory). East Jewett, NY tallied a total of 37.0 inches. The latter storm dumped another 17.0 inches on East Jewett, and 8.5 inches on Burlington, VT, their greatest 1-day total so late in the season. In eastern Massachusetts, Nantucket clocked a wind gust to 87 mph on April 19.

While the April Fool's Day storm departed the Northeast, a spring blizzard evolved over the Southwest before heading northeastward. In Flagstaff, AZ, 28.0 inches of snow fell on April 2--a 1-day April record--en route to a storm total of 44.3 inches. Three days later, snow on the Plains was driven by winds that reached 69 mph in Rapid City, SD and an April-record 68 mph in Scottsbluff, NE. Storm-total snowfall reached 17.3 inches in Bismarck, ND. Heavy snow fell on the central Plains and the Midwest on April 8-12, helping to set several monthly records. On April 25, locally heavy snow whitened the southern Plains, including 6.5 inches in Amarillo, TX, resulting in the last of several monthly snowfall records:

<u>Location</u>	<u>Total (Inches)</u>	<u>Former Record/Year</u>
Worcester, MA	24.0	21.0 in 1987
Boston, MA	22.4	13.3 in 1982
Providence, RI	18.0	9.6 in 1907
Omaha, NE	13.8	10.3 in 1983
Moline, IL	13.3	13.0 in 1982
Lincoln, NE	11.1	10.5 in 1945
Amarillo, TX	6.5	6.4 in 1947

The Plains blizzard wrapped up one of the snowiest seasons on record across the North Central States:

Seasonal Snowfall Records (Inches), 1996-97
Updated through April 30, 1997

<u>Location</u>	<u>Total</u>	<u>Date Set</u>	<u>Former Record</u>
Fargo, ND	117.0	March 3	89.1 in 1993-94
Alpena, MI	185.5	March 14	166.3 in 1970-71
Rochester, MN	84.6	March 14	77.5 in 1950-51
Marquette, MI	263.1	March 22	251.4 in 1995-96
Bismarck, ND	101.6	April 5	91.8 in 1993-94
Billings, MT	101.8	April 7	93.8 in 1954-55

Except for the Plains blizzard, the prevailing jet stream guided storms from the Northwest into the central or southern Plains, and across the East. For the second consecutive month, record rainfall pelted Victoria, TX. On April 4-5, Shreveport, LA measured their sixth-greatest 24-hour rainfall (7.81 inches) on record. By April 30, year-to-date rainfall reached 33.21 inches (219 percent of normal) in Shreveport and 28.78 inches (354 percent) in Victoria. The active storm track erased all but a few pockets of dryness across the Southeast and the central High Plains. Monthly rainfall records were established at a few sites:

<u>Location</u>	<u>Total (Inches)</u>	<u>Former Record/Year</u>
Kodiak, AK	12.09	not available
Victoria, TX	11.70	11.09 in 1991
Tampa, FL	10.71	8.04 in 1920
Amarillo, TX	6.45	5.47 in 1900
Grand Junction, CO	2.15	1.95 in 1965

Several other locations in Texas notched their wettest April in at least 20 years:

<u>Location in Texas</u>	<u>Total (Inches)</u>	<u>Wettest April Since...</u>
Corpus Christi, TX	5.94	6.00 in 1977
Lubbock, TX	5.79	6.18 in 1915
San Antonio, TX	5.73	8.80 in 1977
Austin, TX	5.59	6.08 in 1977

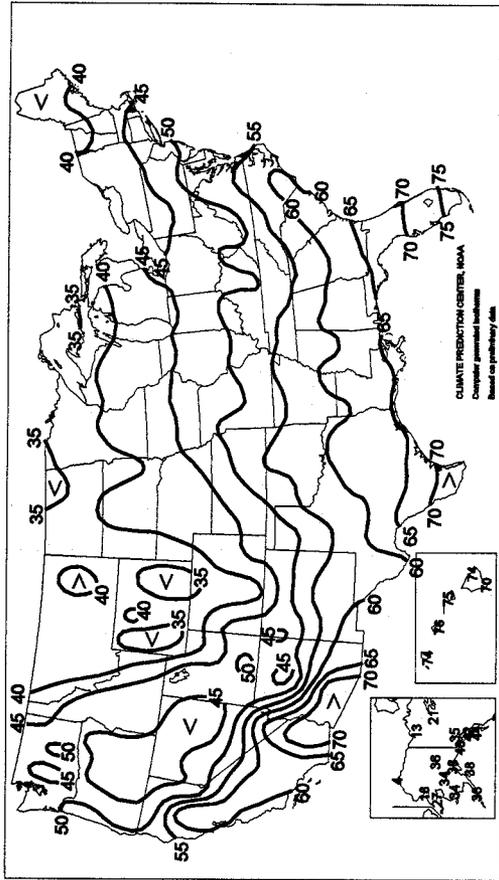
In contrast, the wet season ended on a dry note in California, where little precipitation fell after January. At the Los Angeles Civic Center, February-April rainfall totaled 0.08 inches (1 percent of normal). Similarly, a record-low 1.12 inches fell during the 3-month period in downtown Sacramento, eclipsing their 1964 standard. Drier-than-normal weather also prevailed during April throughout much of the Midwest and Northeast:

<u>Location</u>	<u>Total (Inches)</u>	<u>Driest April Since...</u>
L.A. Civic Center, CA	0.00	0.00 in 1970
Harrisburg, PA	0.92	0.45 in 1985
Ft. Wayne, IN	1.04	0.72 in 1947
South Bend, IN	1.36	0.50 in 1970

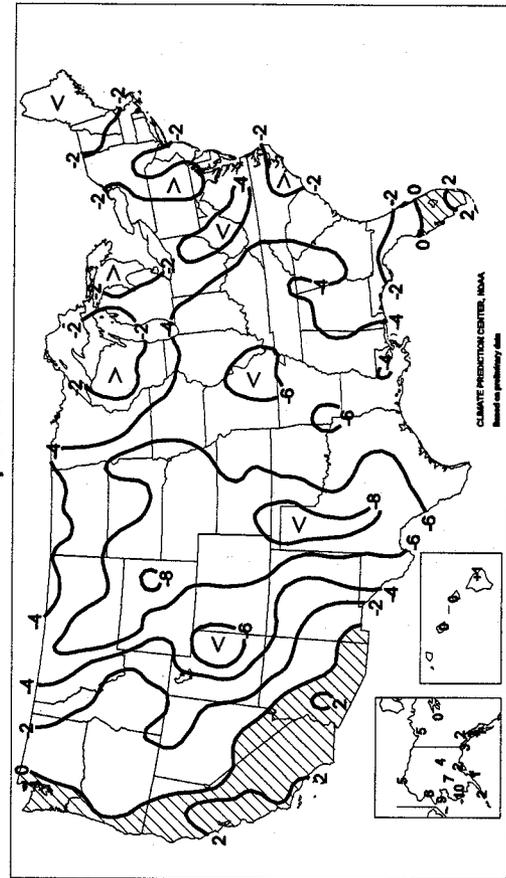
Spring arrived early in Alaska, including the earliest 60-degree day on record in Fairbanks (61°F on April 6). Statewide, monthly temperatures averaged 1 to 10°F above normal. Wet weather was restricted primarily to southern parts of the State, where totals reached a record 12.09 inches in Kodiak and 4.41 inches in Juneau. Above-normal rainfall in Hawaii was confined to westernmost areas.

The "April Crop Summary" will appear in next week's issue.

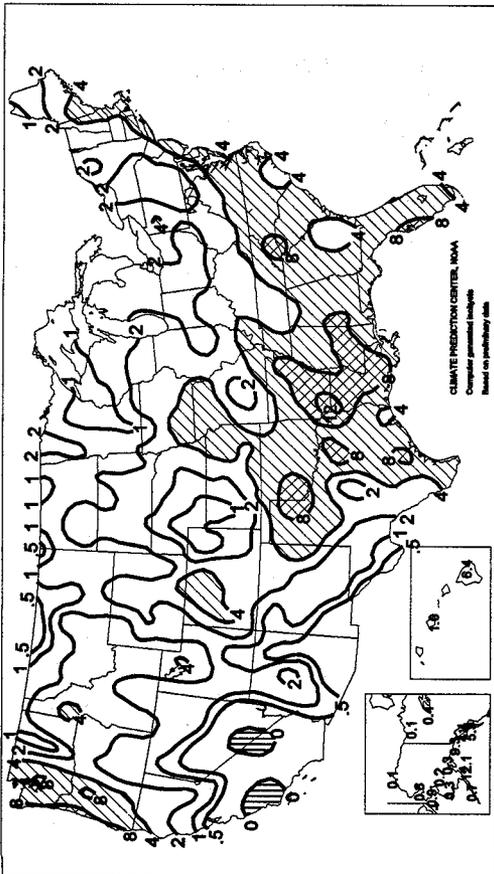
Average Temperature (°F)
April 1997



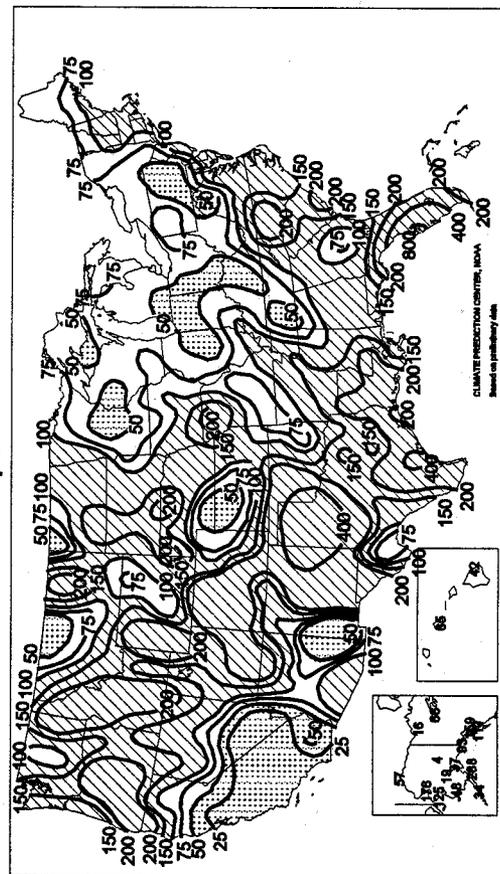
Departure of Average Temperature from Normal (°F)
April 1997



Total Precipitation (Inches)
April 1997



Percent of Normal Precipitation
April 1997



TEMPERATURE AND PRECIPITATION SUMMARY

April 1997

STATES AND STATIONS	TEMP. °F		PRECIP.		STATES AND STATIONS	TEMP. °F		PRECIP.		STATES AND STATIONS	TEMP. °F		PRECIP.	
	AVERAGE	DEPARTURE	TOTAL	DEPARTURE		AVERAGE	DEPARTURE	TOTAL	DEPARTURE		AVERAGE	DEPARTURE	TOTAL	DEPARTURE
AL BIRMINGHAM	58	-3	5.08	0.12	ME CARIBOU	36	-3	1.88	-0.77	RI SCRANTON	46	-3	0.96	-2.01
AL HUNTSVILLE	57	-4	3.24	-1.68	ME PORTLAND	42	-2	5.21	1.12	RI WILLIAMSPORT	47	-2	1.14	-2.11
AL MOBILE	63	-4	5.66	1.19	MD BALTIMORE	52	-2	2.39	-0.71	RI PROVIDENCE	47	0	4.69	0.69
AK MONTGOMERY	61	-3	5.74	1.40	MA BOSTON	46	-2	4.45	0.86	SC BEAUFORT	64	-2	5.17	2.32
AK ANCHORAGE	25	2	0.25	-0.43	MA WORCESTER	43	-1	4.37	0.44	SC CHARLESTON	63	-2	6.61	3.94
AK BARROW	-13	6	0.11	-0.13	MI ALPENA	39	-2	1.77	-0.47	SC COLUMBIA	60	-3	4.07	0.78
AK FAIRBANKS	35	5	-	-	MI GRAND RAPIDS	44	-2	1.70	-1.67	SC GREENVILLE	56	-3	4.11	0.26
AK JUNEAU	41	1	4.41	1.84	MI HOUGHTON LAKE	40	-2	1.31	-0.91	SD ABERDEEN	39	-5	2.01	0.06
AK KODIAK	38	1	12.09	7.89	MI LANSING	42	-2	1.69	-1.22	SD HURON	42	-5	2.70	0.61
AK NOME	5	9	0.85	0.17	MI MARQUETTE	36	0	1.03	-1.60	SD RAPID CITY	39	-6	1.78	-0.11
AZ FLAGSTAFF	40	-2	0.60	-0.88	MI MUSKEGON	42	-3	1.80	-1.11	SD SIOUX FALLS	6	-6	2.43	-0.09
AZ PHOENIX	71	1	0.24	0.02	MN DULUTH	36	-3	1.36	-0.89	TN BRISTOL	51	-6	3.77	0.47
AZ PRESCOTT	51	1	1.00	0.19	MN INT'L FALLS	36	-3	1.31	-0.27	TN CHATTANOOGA	56	-3	4.22	-0.09
AZ TUCSON	66	0	0.47	0.16	MN MINNEAPOLIS	43	-3	1.01	-1.41	TN KNOXVILLE	54	-4	3.68	-0.06
AZ YUMA	72	1	0.08	-0.05	MN ROCHESTER	42	-3	2.32	-0.41	TN MEMPHIS	57	-5	8.91	3.44
AR FORT SMITH	57	-4	3.62	-0.36	MS ST. CLOUD	41	-2	0.69	-1.66	TX NASHVILLE	54	-5	2.42	-1.95
AR LITTLE ROCK	58	-4	7.25	2.17	MS JACKSON	60	-4	7.77	2.29	TX ABILENE	59	-6	2.96	1.06
CA BAKERSFIELD	63	0	0.00	-0.57	MS MERIDIAN	60	-4	8.00	2.64	TX AMARILLO	49	-8	6.45	5.47
CA EUREKA	49	-1	3.06	0.18	MO TUPELO	57	-5	3.82	-1.44	TX AUSTIN	63	-7	5.59	3.02
CA FRESNO	64	2	0.00	-0.96	MO COLUMBIA	49	-5	2.67	-1.02	TX BEAUMONT	65	-4	4.91	1.40
CA LOS ANGELES	62	2	0.00	-0.72	MO KANSAS CITY	49	-6	4.13	1.01	TX BROWNSVILLE	71	-4	4.79	3.23
CA REDDING	60	2	3.31	1.23	MO SAINT LOUIS	51	-6	2.64	-0.85	TX CORPUS CHRISTI	69	-4	5.94	4.22
CA SACRAM/MCCLELL	63	-	0.33	-	MO SPRINGFIELD	51	-5	2.78	-1.20	TX DEL RIO	65	-6	2.56	0.58
CA SAN DIEGO	62	1	0.28	-0.51	MT BILLINGS	38	-7	1.81	0.07	TX EL PASO	61	-2	0.43	0.19
CA SAN FRANCISCO	58	3	0.29	-1.09	MT BUTTE	35	-3	1.75	0.83	TX FORT WORTH	60	-4	6.73	3.03
CO ALAMOSA	38	-3	0.32	-0.16	MT GLASGOW	40	-4	1.79	1.10	TX GALVESTON	66	-3	6.52	4.09
CO COLORADO	40	-7	3.29	2.11	MT GREAT FALLS	37	-7	1.30	-0.11	TX HOUSTON	64	-4	7.17	3.97
CO DENVER	41	-7	1.30	-0.40	MT KALISPELL	39	-5	1.32	0.22	TX LUBBOCK	54	-7	5.79	4.82
CO GRAND JUNCTION	47	-6	2.15	1.40	MT MILES CITY	41	-5	1.54	0.18	TX MIDLAND	59	-6	2.02	1.28
CO PUEBLO	44	-8	2.29	1.40	MT MISSOULA	41	-3	1.48	0.53	TX SAN ANGELO	59	-8	2.50	0.83
CT BRIDGEPORT	48	0	3.39	-0.39	NE GRAND ISLAND	44	-7	2.56	0.05	TX SAN ANTONIO	64	-5	5.73	3.23
CT HARTFORD	47	-1	3.13	-0.73	NE LINCOLN	45	-6	3.81	1.05	TX VICTORIA	65	-6	11.70	9.29
DC WASHINGTON	53	-3	2.41	-0.30	NE NORFOLK	43	-7	2.54	0.24	TX WACO	61	-7	5.48	2.27
DE WILMINGTON	50	-2	1.49	-1.89	NE NORTH PLATTE	45	-6	1.00	-0.99	UT WICHITA FALLS	58	-6	4.20	1.20
FL DAYTONA BEACH	68	-2	3.30	1.08	NE OMAHA	46	-6	3.55	0.89	UT SALT LAKE CITY	48	-1	2.22	0.10
FL JACKSONVILLE	65	-3	4.56	2.04	NE SCOTTSBLUFF	40	-8	3.89	2.32	VT BURLINGTON	41	-3	1.54	-1.22
FL KEY WEST	78	1	2.62	0.88	NE VALENTINE	40	-7	3.41	1.74	VA LYNCHBURG	51	-5	3.61	0.62
FL MIAMI	76	0	5.16	2.31	NV ELY	40	-2	1.09	0.10	VA NORFOLK	54	-2	3.01	-0.04
FL ORLANDO	70	-2	4.02	2.22	NV LAS VEGAS	66	2	0.00	-0.21	VA RICHMOND	54	-4	3.94	0.86
FL TAMPA	72	0	10.71	9.56	NV RENO	47	-1	0.22	-0.16	VA ROANOKE	53	-3	2.51	-0.75
FL VALPARAISO/EGLIN	65	-1	6.80	1.49	NH WINNEMUCA	43	-1	1.60	0.76	VA WASH/DULLES	50	-2	2.18	-0.92
FL WEST PALM BEACH	74	0	4.66	1.72	NH CONCORD	42	-2	3.65	0.74	WA HANFORD	52	-	0.33	-0.08
GA ATHENS	57	-4	3.99	0.01	NJ NEWARK	51	-2	3.08	-0.75	WA OLYMPIA	48	0	4.86	1.65
GA ATLANTA	58	-4	4.28	0.01	NM ALBUQUERQUE	53	-3	1.65	1.15	WA QUILLAYUTE	46	0	10.58	3.08
GA AUGUSTA	60	-3	3.36	0.04	NY ALBANY	44	-2	2.30	-0.89	WA SEATTLE-TACOMA	49	0	4.32	1.99
GA COLUMBUS	62	-3	5.84	1.54	NY BINGHAMTON	42	-3	1.54	-1.58	WA SPOKANE	43	-2	2.56	1.37
GA MACON	60	-4	2.80	-0.66	NY BUFFALO	42	-3	1.65	-1.23	WA YAKIMA	48	-2	0.29	-0.21
GA SAVANNAH	63	-3	3.73	0.69	NY ROCHESTER	44	-2	1.33	-1.28	WV BECKLEY	47	-4	2.63	-0.79
HI HILO	74	1	6.02	-9.24	NY SYRACUSE	44	-2	1.78	-1.57	WV CHARLESTON	50	-4	2.77	-0.64
HI HONOLULU	76	0	1.00	-0.54	NC ASHEVILLE	51	-4	5.26	1.37	WV ELKINS	44	-4	2.07	-1.73
HI KAHULUI	75	1	-	-	NC CHARLOTTE	58	-2	5.23	2.55	WV HUNTINGTON	51	-2	1.72	-1.89
HI LIHUE	72	-3	-	-	NC GREENSBORO	53	-4	7.22	4.39	WI EAU CLAIRE	44	-1	0.88	-1.95
ID BOISE	49	0	1.89	0.65	NC HATTERAS	56	-1	4.65	1.13	WI GREEN BAY	42	-2	1.67	-0.73
ID LEWISTON	49	-1	2.52	1.40	NC RALEIGH	55	-4	4.75	2.16	WI MADISON	43	-3	2.42	-0.76
ID POCATELLO	42	-3	1.16	-0.03	NC WILMINGTON	60	-1	3.04	0.17	WI MILWAUKEE	44	-1	2.16	-1.34
IL CHICAGO/O'HARE	45	-3	1.76	-1.86	ND BISMARCK	39	-4	3.26	1.59	WI CASPER	35	-8	1.80	0.24
IL MOLINE	45	-3	2.30	-1.60	ND DICKINSON	37	-5	3.63	1.75	WI CHEYENNE	36	-6	1.88	0.31
IL PEORIA	47	-4	2.76	-1.02	ND FARGO	38	-5	3.12	1.30	WI LANDER	38	-6	2.39	0.31
IL ROCKFORD	44	-3	1.90	-1.75	ND GRAND FORKS	37	-5	1.60	0.25	WI SHERIDAN	37	-7	1.40	-0.32
IL SPRINGFIELD	48	-5	1.48	-2.17	ND JAMESTOWN	38	-4	1.77	0.23	PR SAN JUAN	-	-	0.08	-3.54
IN EVANSVILLE	51	-6	4.16	0.15	ND WILLISTON	39	-4	0.27	-1.01					
IN FORT WAYNE	45	-4	1.04	-2.34	OH AKRON-CANTON	45	-4	2.51	-0.84					
IN INDIANAPOLIS	48	-4	1.97	-1.72	OH CINCINNATI	48	-5	1.98	-1.76					
IN SOUTH BEND	44	-5	1.36	-2.46	OH CLEVELAND	45	-3	2.20	-0.94					
IA BURLINGTON	47	-5	2.42	-1.07	OH COLUMBUS	48	-3	1.65	-1.57					
IA CEDAR RAPIDS	46	-4	2.51	-0.68	OH DAYTON	47	-4	1.42	-2.04					
IA DES MOINES	45	-4	3.45	-0.14	OH MANSFIELD	45	-4	2.21	-1.43					
IA DUBUQUE	44	-4	3.14	-0.58	OH TOLEDO	46	-2	1.56	-1.40					
IA SIOUX CITY	43	-7	3.07	0.73	OH YOUNGSTOWN	44	-3	2.98	-0.22					
IA WATERLOO	45	-4	3.62	0.32	OK OKLAHOMA CITY	55	-6	4.42	1.64					
KS CONCORDIA	48	-5	2.53	0.22	OR TULSA	56	-5	4.08	0.38					
KS DODGE CITY	48	-7	2.02	-0.03	OR ASTORIA	49	1	6.82	2.02					
KS GOODLAND	44	-6	0.77	-0.62	OR BURNS	42	-1	1.03	0.39					
KS TOPEKA	50	-5	4.99	1.91	OR EUGENE	50	0	3.31	0.20					
KS WICHITA	51	-5	3.81	0.96	OR MEDFORD	52	1	1.99	0.81					
KY JACKSON	51	-5	1.51	-2.45	OR PENDLETON	49	-2	1.56	0.50					
KY LEXINGTON	49	-6	1.89	-1.99	OR PORTLAND	51	0	3.73	1.34					
KY LOUISVILLE	50	-6	2.23	-1.99	OR SALEM	50	1	3.41	0.99					
LA PADUCAH	63	-5	5.03	0.02	PA ALLENTOWN	48	-2	1.62	-1.90					
LA BATON ROUGE	62	-6	9.51	4.14	PA ERIE	43	-3	2.25	-0.99					
LA LAKE CHARLES	64	-4	8.04	4.72	PA MIDDLETOWN	51	-1	0.92	-2.32					
LA NEW ORLEANS	65	-3	4.91	0.41	PA PHILADELPHIA	51	-1	2.58	-1.04					
LA SHREVEPORT	60	-5	11.93	7.96	PA PITTSBURGH	46	-3	1.57	-1.57					

Based on 1961-90 normals.

1997 Record Flooding Updated through April 1997

<u>Red River Basin</u>	<u>Location</u>	<u>Crest (feet above f.s.)/Date</u>	<u>Former Record/Date</u>	
Red River	Wahpeton, ND	9.2 feet on April 6 & 15	8.0 feet on April 5, 1989	
	Fargo, ND	22.5 feet on April 17	20.3 feet on April 15, 1969	
	Halstad, MN	16.7 feet on April 19	15.0 feet on April 22, 1979	
	E. Grand Forks, MN	26.1 feet on April 22	20.8 feet on April 26, 1979	
	Drayton, ND	13.5 feet on April 25	11.7 feet on April 28, 1979	
	Pembina, ND	12.9 feet on April 28	11.8 feet on May 1, 1979	
	Marsh River	Shelly, MN	10.7 feet on April 20	8.4 feet on April 19, 1979
	Pembina River	Walhalla, ND	7.0 feet on April 20	5.2 feet on April 18, 1950
		Neche, ND	6.5 feet on April 21	5.6 feet on April 20, 1979
	Sheyenne River	Kindred, ND	6.0 feet on April 9	5.7 feet on July 6, 1975
		West Fargo, ND	6.7 feet on April 10	5.0 feet on July 26, 1993
	Harwood, ND	8.0 feet on April 10 & 17	6.7 feet on April 13, 1996	
Maple River	Mapleton, ND	6.0 feet on April 9	6.0 feet on July 2, 1975	
Buffalo River	Hawley, MN	3.7 feet on April 7	3.4 feet on July 18, 1993	
	Dilworth, MN	15.1 feet on April 6	15.1 feet on July 2, 1975	
Wild Rice River	Twin Valley, MN	6.4 feet on April 6	4.2 feet on April 5, 1989	
	Hendrum, MN	16.7 feet on April 18	15.3 feet on April 21, 1979	
Wild Rice River	Abercrombie, ND	16.4 feet on April 7	14.6 feet on April 11, 1969	
Red Lake River	Crookston, MN	13.1 feet on April 17	12.3 feet on April 12, 1969	
Two Rivers	Hallock, MN	8.6 feet on April 21	7.5 feet on April 23, 1996	
Snake River	Alvarado, MN	4.6 feet on April 21	4.6 feet on April 20, 1979	
<u>Mississippi R. Basin</u>	<u>Location</u>	<u>Crest (feet above f.s.)/Date</u>	<u>Former Record/Date</u>	
Minnesota River	Montevideo, MN	9.9 feet on April 7	7.7 feet on April 12, 1969	
<u>Missouri River Basin</u>	<u>Location</u>	<u>Crest (feet above f.s.)/Date</u>	<u>Former Record/Date</u>	
Big Sioux River	Watertown, SD	2.1 feet on April 6	1.1 feet in June 1991	
	Castlewood, SD	2.2 feet on April 7	0.7 feet in March 1986	
James River	Columbia, SD	7.1 feet on April 23	6.1 feet on April 22, 1969	
	Ashton, SD	13.0 feet on April 4	9.4 feet on May 18, 1995	
	Redfield, SD	10.3 feet on April 7	6.3 feet on May 15, 1995	
	Huron, SD	10.1 feet on April 5	5.9 feet on May 19, 1995	
	Forestburg, SD	8.3 feet on April 7	5.3 feet on April 22, 1995	
	Mitchell, SD	8.6 feet on April 7	6.4 feet on April 23, 1995	
Turtle Creek	Redfield, SD	11.1 feet on March 30	8.9 feet on April 7, 1969	

Notes: This information was compiled from National Weather Service flood statements and spring flood outlooks. In some cases--especially in the Red River basin--water levels were affected by the presence of river ice and ice jams. Some crest information was estimated due to inoperable gauging equipment. As a result, all crest information is preliminary and subject to change. Crests are listed in terms of feet above flood stage (f.s.).

National Agricultural Summary

April 28 - May 4, 1997

HIGHLIGHTS

Farmers in the Corn Belt made significant progress planting corn as warmer, drier weather moved through the area. Below-normal temperatures combined with above-normal precipitation continued to slow or halt planting of spring crops in Tennessee, Kentucky, Virginia, and North Carolina. Early-week storms brought beneficial moisture to dry areas in the Southeast, but caused some localized flooding and slowed peanut and cotton

planting. Dry weather over the northern Plains helped the Red River Valley to slowly begin drying as farmers began planting spring grains. Cool, wet weather in the Northwest continued to hinder planting and slow crop development. An area extending from southeast Wyoming to western Kansas, where additional soil moisture was needed, remained dry. Warmth in the Southwest provided good planting conditions.

Wheat: The Nation's wheat crop, improving slightly over last week, remained in mostly good condition. Twenty-two percent of the crop was headed, equal to this time in 1996, but just behind the 5-year average of 25%. In Kansas, heading progress was behind normal. Warmer weather and gusty winds advanced the heading of wheat in Oklahoma. Many fields in Texas resumed growth after the April freeze damage. However, loss estimates continued to range from slight to severe. Wheat conditions in Washington were reported as good but behind normal due to cool, wet weather. Condition of the wheat crop in Nebraska declined as more moisture was needed in western areas.

Corn: Corn planting progressed rapidly to 50 percent (%) complete, compared with 40% last year and the average of 30%. Early-week dry weather helped Iowa farmers finally make significant planting progress as they planted 49% of the State's acreage. By week's end, Illinois farmers had planted the highest percentage of their corn crop on record for this date. Corn planting in Indiana advanced at a record pace. Only in the southern Ohio Valley and Southeast, where conditions were very wet, were corn growers kept out of fields. Minnesota corn growers planted 50% of the State acreage. Even though planting proceeded rapidly in Kansas and Nebraska, progress remained behind normal.

Soybeans: Nationwide, 9% of the soybean crop was in the ground, compared with 4% for both 1996 and the average. Like corn, soybean planting progressed at a record pace in Indiana. As farmers finished planting corn in Illinois, most switched to soybeans, but some in northern areas delayed planting due to cool soils. Many farmers in Ohio finished planting corn and immediately turned their attention to planting soybeans. Growers in other soybean-producing States made limited progress as they were waiting for soils to warm or dry.

Cotton: Cotton planting progressed slowly as cool, wet weather in the major cotton-producing States kept growers out of fields. At week's end, 25% of the crop was planted, behind both the 31% of a year ago and the average of 37%. Cotton planting was nearing completion in California and Arizona. Many cotton producers in Mississippi waited for dry weather to continue planting. Some planting got underway this week on irrigated fields in Texas.

Rice: Rice seeding advanced to 60% complete, 4 percentage points ahead of 1996 and 3 points ahead of the average. Twenty-seven percent of the crop was emerged, compared with 37% at this time last year and on average. Rice planting in California was in full swing. In Texas, early-week rains slowed planting and emergence. Arkansas growers made good progress in drier areas.

Other Small Grains: Barley planting, led by good progress in Washington and Montana, advanced to 20% complete, slightly behind the 23% of last year, but well behind the average of 43%. Conditions in the northern Plains improved, and spring wheat growers were finally able to enter drier fields. For the Nation, 13% of the spring wheat crop was planted, compared with 21% in 1996 and the average of 40%. Ideal conditions in Minnesota and Wisconsin allowed farmers to make rapid progress planting oats. By week's end, 57% of the Nation's oat crop was in the ground, compared with 49% in 1996 and the average of 53%.

Other Crops: Sorghum planting progressed to 22% complete as Kansas, Illinois, and New Mexico farmers started planting. Sorghum planting was just behind both the 25% planted at this time last year and the average. Peanut planting continued to fall behind as storms brought cool, wet weather to the Southeast. Seventeen percent of the peanut crop was planted in the eight major peanut-producing States, behind 25% of a year ago and the average of 29%.

Crop Progress and Condition

Week Ending May 4, 1997

Winter Wheat Percent Headed

	May 4 1997	Prev Week	Prev Year	5-Yr Avg
AR	90	74	57	71
CA	99	99	97	96
CO	1	0	0	0
GA	98	92	89	94
ID	0	0	0	0
IL	1	0	0	4
IN	0	0	0	2
KS	5	2	8	13
MI	0	0	0	0
MO	21	6	3	11
MT	0	0	0	0
NE	0	0	0	0
NC	85	35	63	66
OH	0	0	0	0
OK	55	33	53	64
OR	0	0	0	0
SD	0	0	0	0
TX	51	44	64	58
WA	0	0	0	1
ALL	22	16	22	25

These 19 States produced 92% of the 1996 winter wheat crop.

Soybeans Percent Planted

	May 4 1997	Prev Week	Prev Year	5-Yr Avg
AL	5	NA	8	8
AR	14	NA	9	6
GA	2	NA	3	4
IL	13	NA	3	3
IN	22	NA	2	5
IA	0	NA	3	6
KS	4	NA	7	3
KY	2	NA	0	3
LA	12	NA	10	7
MI	3	NA	0	1
MN	4	NA	2	3
MS	23	NA	28	17
MO	1	NA	3	2
NE	0	NA	2	2
NC	5	NA	4	7
OH	29	NA	0	4
SC	5	NA	3	3
SD	0	NA	0	0
TN	0	NA	1	1
ALL	9	NA	4	4

These 19 States produced 94% of the 1996 soybean crop.

Corn Percent Planted

	May 4 1997	Prev Week	Prev Year	5-Yr Avg
CO	52	11	71	40
GA	95	92	96	97
IL	77	37	46	30
IN	60	30	8	17
IA	53	4	50	33
KS	50	20	81	55
KY	44	35	29	46
MI	30	0	1	6
MN	59	9	28	24
MO	43	22	76	42
NE	30	6	55	32
NC	91	80	88	82
OH	71	39	4	19
PA	20	8	11	13
SD	5	0	17	13
TX	68	61	88	85
WI	18	4	4	10
ALL	50	18	40	30

These 17 States produced 90% of the 1996 corn crop.

Cotton Percent Planted

	May 4 1997	Prev Week	Prev Year	5-Yr Avg
AL	35	26	45	54
AZ	90	76	90	84
AR	7	4	19	26
CA	95	90	86	83
GA	21	13	36	43
LA	13	10	24	56
MS	11	10	32	44
MO	12	3	11	12
NM	65	60	63	64
NC	10	9	31	28
OK	1	0	1	4
SC	22	15	45	41
TN	7	3	12	19
TX	19	16	20	24
ALL	25	21	31	37

These 14 States produced 99% of the 1996 cotton crop.

Sorghum Percent Planted

	May 4 1997	Prev Week	Prev Year	5-Yr Avg
AR	57	51	53	52
CO	0	0	0	0
IL	3	0	0	1
KS	6	0	6	2
LA	55	53	49	45
MS	60	47	65	57
MO	4	2	9	9
NE	0	0	2	1
NM	1	0	1	4
OK	6	2	7	7
SD	0	0	0	0
TX	51	49	59	65
ALL	22	19	25	25

These 12 States produced 99% of the 1996 sorghum crop.

Oats Percent Planted

	May 4 1997	Prev Week	Prev Year	5-Yr Avg
IA	94	81	95	79
MI	74	70	22	37
MN	60	25	52	53
NE	87	73	99	89
ND	1	0	4	25
OH	93	80	50	65
PA	75	60	56	61
SD	13	5	50	54
WI	70	40	27	38
ALL	57	40	49	53

These 9 States produced 56% of the 1996 oat crop.

Peanuts Percent Planted

	May 4 1997	Prev Week	Prev Year	5-Yr Avg
AL	18	12	27	37
FL	19	15	31	NA
GA	24	14	38	47
NC	8	4	9	12
OK	16	0	8	5
SC	33	23	49	47
TX	6	0	6	4
VA	20	5	22	23
ALL	17	9	25	29

These 8 States produced 99% of the 1996 peanut crop.

Crop Progress and Condition

Week Ending May 4, 1997

Barley Percent Planted				
	May 4 1997	Prev Week	Prev Year	5-Yr Avg
ID	51	44	63	71
MN	8	2	5	28
MT	28	10	33	56
ND	2	0	4	25
SD	4	1	35	51
WA	72	44	55	75
ALL	20	11	23	43

These 6 States produced 82% of the 1996 barley crop.

Rice Percent Planted				
	May 4 1997	Prev Week	Prev Year	5-Yr Avg
AR	60	46	56	61
CA	35	15	9	12
LA	79	72	81	77
MS	84	78	76	71
TX	52	25	82	76
ALL	60	45	56	57

These 5 States produced 96% of the 1996 rice crop.

Winter Wheat Crop Condition by Percent					
	VP	P	F	G	EX
AR	1	24	45	28	2
CA	0	0	20	40	40
CO	3	10	27	49	11
GA	1	13	43	38	5
ID	2	3	14	67	14
IL	1	3	23	63	10
IN	1	6	31	51	11
KS	2	9	34	47	8
MI	2	9	33	38	18
MO	0	11	29	48	12
MT	2	6	29	55	8
NE	2	9	33	50	6
NC	0	4	34	54	8
OH	3	11	33	42	11
OK	14	18	35	32	1
OR	0	0	14	73	13
SD	19	21	29	28	3
TX	11	21	41	20	7
WA	0	2	30	53	15
ALL	5	12	33	42	8
Prev Wk	5	14	33	41	7
Prev Yr	22	26	26	22	4

*Spring Wheat Percent Planted				
	May 4 1997	Prev Week	Prev Year	5-Yr Avg
ID	71	64	73	79
MN	10	1	11	34
MT	29	10	36	58
ND	3	0	7	27
SD	13	2	56	61
ALL	13	5	21	40

These 5 States produced 96% of the 1996 spring wheat crop.

Rice Percent Emerged				
	May 4 1997	Prev Week	Prev Year	5-Yr Avg
AR	21	6	28	35
CA	5	0	0	0
LA	64	56	67	64
MS	39	11	57	49
TX	20	5	72	52
ALL	27	14	37	37

These 5 States produced 96% of the 1996 rice crop.

Pasture and Range Crop Condition by Percent											
Week Ending May 4, 1997											
	VP	P	F	G	EX		VP	P	F	G	EX
AL	0	4	25	64	7	NH	13	18	69	0	0
AZ	5	18	36	27	14	NJ	0	0	0	100	0
AR	1	3	32	58	6	NM	1	7	34	49	9
CA	0	10	80	10	0	NY	0	0	44	56	0
CO	4	14	38	39	5	NC	1	5	27	59	8
CT	0	32	25	43	0	ND	11	10	30	44	5
DE	0	5	21	68	6	OH	3	11	36	44	6
FL	0	0	20	75	5	OK	0	8	39	50	3
GA	1	5	34	56	4	OR	0	0	11	76	13
ID	2	1	18	57	22	PA	6	20	47	25	2
IL	1	5	30	56	8	RI	0	0	3	27	70
IN	2	12	36	43	7	SC	1	2	23	60	14
IA	1	10	36	45	8	SD	3	7	37	47	6
KS	1	4	27	62	6	TN	0	4	26	58	12
KY	2	13	39	40	6	TX	2	10	32	39	17
LA	0	4	28	56	12	UT	0	3	22	56	19
ME	57	43	0	0	0	VT	8	41	22	17	12
MD	1	3	17	64	15	VA	0	5	31	58	6
MA	21	7	20	52	0	WA	0	10	15	73	2
MI	3	18	49	24	6	WV	1	10	52	34	3
MN	5	22	44	27	2	WI	2	20	49	28	1
MS	1	4	30	53	12	WY	1	1	19	78	1
MO	0	9	35	49	7	ALL	2	9	35	47	7
MT	1	15	40	41	3						
NE	0	6	26	64	4	Prev Wk	NA	NA	NA	NA	NA
NV	0	0	7	93	0	Prev Yr	7	20	35	32	6

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

National crop conditions for selected States are weighted based on 1996 planted acres.

*Correction: The date for last week's spring wheat table should have been April 27 instead of April 20.

State Agricultural Summaries

These summaries, issued weekly in April through November and monthly in the other months, 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. The crop weather reports are also available on the Internet through the NASS Home Page on the World Wide Web at <http://www.usda.gov/nass/> or from JAWF at <http://www.usda.gov/oce/waob/jawf>.

ALABAMA: Days suitable for fieldwork 2.9. Topsoil 1% short, 61% adequate, 38% surplus. Spring plowing 86% complete, 82% 1996, 85% avg. Corn planted 91%, 88% 1996, 86% avg. Wheat headed 91%, 70% 1996, 74% avg.; 1% very poor, 5% poor, 26% fair, 65% good, 3% excellent. Livestock 1% poor, 15% fair, 73% good, 11% excellent. Welcome rains fell in most areas of the State. Wet fields delayed or halted fieldwork.

ALASKA: Days suitable for fieldwork 5.5. Topsoil 30% short, 70% adequate. Subsoil 20% short, 55% adequate, 25% surplus. Fieldwork progress on schedule to 10 days ahead. Barley seeding in the Delta area began on 25th. Local hay supplies 90% short, 10% adequate. Livestock were in mostly good to excellent shape after winter.

ARIZONA: Temperatures continued above normal, cotton planting neared completion. Small grains beginning to turn color in the west, central areas; 7% fair, 61% good, 32% excellent. Alfalfa harvest activity 0% light, 11% moderate, 60% active, 29% not being harvested; 6% fair, 49% good, 45% excellent. Central area vegetable growers continue to harvest spring vegetables. Among those being shipped are broccoli, cabbage, carrots, kale, iceberg, Romaine, leaf lettuces, green, dry onions, greens, spinach, turnips. Digging of table stock, chipping potatoes active. Cabbage, salad savoy, dry onions shipped from western fields. Valencia orange, grapefruit harvest steady. Light volume of peaches continued from the western area. Windy conditions, rising temperatures, little precipitation after the first week of April dried pastures. Mid to high elevation pastures mostly fair to good, while low elevation pastures mostly poor to fair. More precipitation needed going into the hot part of the year. Cattle, calf condition continued mostly fair. Stock water, soil moisture supplies short to adequate overall. Lower, mid elevation pastures were drying rapidly, higher elevation rangeland had mostly adequate supplies of water. Insect damage very light.

ARKANSAS: Main farming activities: Planting preparation, planting of row crops, fertilizing pastures, wheat. Field preparation for row crops, planting of rice, corn, cotton, soybeans, sorghum reported by several counties. Fertilizing, applying herbicides to wheat reported by several counties. Spring fruit, vegetable work reported by several counties. Livestock good.

CALIFORNIA: Field activities progressed rapidly under favorable weather conditions in most areas. Small grains neared maturity, except at higher elevations. Lodging was still a problem in some fields in the southern San Joaquin Valley. Desert area wheat harvest slowly gained momentum. Rice planting was in full swing. Emerged fields were sprayed for weeds, water weevils. Cotton planting neared completion in the San Joaquin, Sacramento valleys. Some replanting was ongoing in Fresno County, due to poor germination caused by soil crusting. Emerged fields were treated for aphids, lygus, thrips. Growth of corn, cotton, safflower was slowed by cool temperatures. Black eye bean, corn, grain sorghum, safflower, sunflower planting continued. Corn was treated for weeds in the Sacramento Valley. Seed alfalfa was sprayed for lygus. Sugar beet harvest continued in central, northern counties, while new crop fields were fertilized. Harvested small grain, forage crop fields were prepared for second crop plantings. Alfalfa, small grains, winter forage were cut for hay or green chopped. Harvesting of early variety peaches, nectarines, cherries was underway in the southern San Joaquin Valley. Apricots, nectarines, peaches began to turn color in the central San Joaquin Valley. Thinning of apricots was complete in the Santa Clara Valley. Apples, walnuts were sprayed for codling moth. Grapes were suckered, fertilized, treated for mildew, nematodes. Olives, avocados were beginning to bloom. Valencia oranges were actively harvested, while the navel harvest neared completion. New season navels were sprayed for thrips. Head, leaf lettuce harvests were nearing completion in the San Joaquin Valley. Lettuce harvest in the Salinas-Watsonville area picked up speed. Broccoli, cauliflower were harvested in Monterey County. Planting of sweet potatoes started in the San Joaquin Valley. Tomatoes began to bloom in central, southern counties. Asparagus harvest continued. Rising temperatures enhanced the development of zucchini, yellow squash. Cantaloupe, watermelons showed good emergence, strong winds slowed

growth. Watermelons were sprayed for aphids in the Sacramento Valley. Peas were harvested in Stanislaus County. A late viral disease ended second cuttings of spinach in Tulare County. Pumpkin growers in Sutter County were treating for cucumber beetle. Sweet corn, snap beans were irrigated, thinned. Onions, peppers, garlic were progressing well. Quality, quantity of rangeland grasses rated fair in most areas. Light rains in some areas provided temporary relief to the dry conditions. Irrigated pastures were in excellent condition. Livestock were in good condition. Some ranchers were taking cattle off local ranges as feed quality, quantity declined. New calves and lambs were doing well.

COLORADO: Days suitable for fieldwork 4.7. Topsoil 15% very short, 35% short, 46% adequate, 4% surplus. Subsoil 18% very short, 24% short, 55% adequate, 3% surplus. Spring barley 75% emerged, 67% 1996, 38% avg. Oats 58% emerged, 50% 1996, 33% avg.; 1% poor, 18% fair, 67% good, 14% excellent. Summer potatoes 94% planted, 96% 1996, 64% avg. Sugar beets 100% planted, 100% 1996, 92% avg. Dry onions 100% planted, 100% 1996, 84% avg.; 1% very poor, 3% poor, 15% fair, 64% good, 17% excellent. Cows 91% calved, 95% 1996, 90% avg. Ewes 93% lambled, 91% 1996, 89% avg. Livestock mostly in good to fair condition.

DELAWARE: Days suitable for fieldwork 3.3. Subsoil 80% adequate, 20% surplus. Topsoil 68% adequate, 32% surplus. Winter wheat 2% poor, 14% fair, 79% good, 5% excellent; 8% headed, 1% 1996, 5% avg. Barley 2% poor, 12% fair, 79% good, 7% excellent; 68% headed, 56% 1996, 66% avg. Corn 32% planted, 37% 1996, 40% avg. Potatoes 82% planted, 86% 1996, 87% avg. Green peas 94% planted, 96% 1996, 87% avg. Tomatoes 5% planted, 19% 1996, 11% avg. Watermelons 15% planted, 4% 1996, 5% avg. Cantaloupes 15% planted, 4% 1996, 5% avg. Sweet corn 29% planted, 28% 1996, 34% avg. Apples 85% bloomed, 64% 1996, 67% avg. Peaches 100% bloomed, 87% 1996, 89% avg. Strawberries 56% bloomed, 58% 1996, 54% avg. Hay supplies 45% short, 55% adequate. Activities: Wet conditions continue to delay spring planting of crops.

FLORIDA: Topsoil was adequate to surplus, in the Panhandle. Moisture in the peninsula was short to adequate, with scattered areas of surplus moisture. Nineteen percent of peanuts were planted. Cotton and soybean planting were starting. Corn, sugarcane, and tobacco had normal growth. Haying was starting. Rains slowed some vegetable fieldwork, with activity resuming rapidly after passage of storms. Vegetable volume leaders were tomatoes, potatoes, sweet corn, watermelons, and peppers. Citrus groves were in very good to excellent condition. Moisture was adequate, with abundant new growth. New-crop fruit was making normal progress. Trees were shedding little fruit that cannot be carried next season. Minimum care groves were showing stress. Valencia harvest was active in all areas. Movement of all seedless grapefruit for fresh and process use continues lower in the east coast. Caretakers were cutting cover crops, herbiciding, spraying, completing hedging, and topping. Pastures continued to improve. Beneficial rain was received in most areas. Cattle condition was fair to good. Pasture feed was 20% fair, 75% good, and 5% excellent. Condition of cattle herds was 25% fair and 75% good.

GEORGIA: Days suitable for fieldwork 3.4. Soil moisture 2% short, 72% adequate, 26% surplus. Corn 1% poor, 19% fair, 76% good, 4% excellent. Cotton 1% very poor, 7% poor, 45% fair, 45% good, 2% excellent. Hay 1% very poor, 7% poor, 34% fair, 53% good, 5% excellent. Peanuts 8% poor, 41% fair, 49% good, 2% excellent. Sorghum 2% poor, 22% fair, 73% good, 3% excellent; 11% planted, 27% 1996, 30% avg. Tobacco 7% poor, 40% fair, 49% good, 4% excellent. Wheat 99% boot, 98% 1996, 100% avg. Onions 23% fair, 36% good, 41% excellent; 62% harvested, 5% 1996, 27% avg. Watermelons 1% very poor, 3% poor, 47% fair, 43% good, 6% excellent; 95% planted, 92% 1996, 94% avg. Apples 1% poor, 31% fair, 56% good, 12% excellent; 99% blooming, 99% 1996, 99% avg. Peaches 3% poor, 6% fair, 33% good, 58% excellent; 2% harvested, 3% 1996, 3% avg. Another week of rainfall improved soil moisture conditions throughout the

State. Increased soil moisture levels improved condition ratings for most developing row crops. Crops approaching maturity did not benefit from the cool, damp weather. Activities: In areas where fields were workable, other activities included land preparation for planting, spraying vegetables, pecans, tobacco, controlling weeds in pastures, hay fields.

HAWAII: Weather conditions were beneficial for agriculture. Sunny skies, warm temperatures, gentle winds, and light to moderate rain favored agriculture. Banana production seasonally light to moderate. Overall papaya production steady. Head cabbage production moderate, crop condition improved. Watermelon harvest increasing. Ginger root harvest steady.

IDAHO: Days suitable for fieldwork 3.1. Cool, wet temperatures continue to delay crop development across State. Topsoil 41% surplus, 55% adequate, 4% short. Spring wheat jointed 3%. Barley jointed 4%. Winter wheat jointed 35%; booting 4%. Potatoes planted 28%, 42% 1996, 41% avg.; emerged 1%, 1% 1996, 1% avg. Sugar beets planted 97%, 97% 1996, 95% avg.; emerged 49%, 35% 1996, 47% avg. Corn planted 23%; 34% 1996; 22% avg. Dry beans planted 1%, 5% 1996, 3% avg. Dry peas planted 24%, 15% 1996, 42% avg.; emerged 17%, 7% 1996, 24% avg. Oats planted 47%, 46% 1996, 55% avg.; emerged 21%, 21% 1996, 31% avg. Onions emerged 99%, 88% 1996, 67% avg. Lentils planted 14%, 3% 1996, 34% avg.; emerged 4%, 1% 1996, 20% avg. Irrigation water supply 68% excellent, 32% good. Hay, roughage supplies 2% surplus, 45% adequate, 25% short, 28% very short. Activities: Planting small grains, potatoes, dry beans, corn, dry peas, sugar beets, moving livestock to spring pasture, fencing, branding, irrigating, hauling seed potatoes, weed control, fertilizing.

ILLINOIS: Days suitable for fieldwork 4.9. Topsoil 1% very short, 11% short, 74% adequate, 14% surplus. Farmers made significant planting progress last week. By week's end, 77% of the corn crop had been planted, which is the earliest progress on record for this date. Most progress was made in the northern districts, where over 60% of the crop was planted last week, in contrast to the Southeast District, where only 11% of the crop was planted. Cool soils continue to concern farmers as corn is slow to emerge, growth of wheat and hay is less than desirable. Farmers finished corn planting, most switched over to soybeans, some in the northern districts delayed planting due to cool soil temperatures. Soybean planting progressed to 13% statewide, which ties the record achieved in both 1987, 1988. Rains across the State at week's end caused short delays, snow in northern districts was reported on 1st night. Other activities for the week included ground preparation, spraying chemicals, spreading fertilizer. Alfalfa hay 1% very poor, 3% poor, 33% fair, 55% good, 8% excellent. Red clover 2% poor, 21% fair, 67% good, 10% excellent. Oats planted 99%, 96% 1996, 79% avg.

INDIANA: Days suitable for fieldwork 4.8. Topsoil 12% short, 75% adequate, 13% surplus. Subsoil 5% short, 87% adequate, 8% surplus. Corn, soybean planting is advancing at a record pace. Soil conditions have been ideal for tillage, planting in many areas. Winter wheat 75% jointed, 44% 1996, 56% avg. Range, pasture feed 2% very poor, 12% poor, 36% fair, 43% good, 7% excellent. Activities: Corn planting, soybean planting, applying fertilizer, applying herbicide, field preparation, caring for livestock.

IOWA: Days suitable for fieldwork 3.9. Topsoil short 1%, adequate 57%, surplus 42%. Subsoil short 2%, adequate 71%, surplus 27%. Dry weather early in the week helped farmers make significant progress in the fields. Warmer weather is still needed to help the plants grow, fieldwork is finally getting done. 1997 row crops primary seedbed preparation completed 81%, 84% 1996, 69% avg; fertilizer application completed 87%, 86% 1996, 73% avg. Corn planting is behind in the southwest, south central districts due to wet conditions. Corn planted 53%, 50% 1996, 33% avg. Oat seeding is nearing completion; planted 94%, 95% 1996, 79% avg.; emerged 48%, 48% 1996, 50% avg. Pasture feed 1% very poor, 10% poor, 36% fair, 45% good, 8% excellent. Winter wheat 1% very poor, 4% poor, 32% fair, 59% good, 4% excellent. Significant amounts of alfalfa winterkill were reported in the northern three districts. Calving, lambing season is drawing to a close, with most livestock reported in good condition.

KANSAS: Days suitable for fieldwork 4.4. Topsoil 11% short, 81% adequate, 8% surplus. Subsoil 1% very short, 8% short, 88% adequate, 3% surplus. Wheat jointing 87%, 79% 1996, 86% avg. Warmer temperatures have allowed farmers to resume planting spring crops, wheat condition to

improve. Disease reports of wheat streak mosaic, leaf rust. Alfalfa weevil, aphids present in some fields. Pasture feed 1% very poor, 4% poor, 27% fair, 62% good, 6% excellent. Major field activities included planting corn, grain sorghum, soybeans. Livestock activities included moving cattle to pasture, working cattle, calves.

KENTUCKY: Days suitable for fieldwork 4.3. Topsoil 2% very short, 12% short, 70% adequate, 16% surplus. Subsoil 2% very short, 14% short, 69% adequate, 15% surplus. Temperatures were below normal for fourth straight week with rainfall above normal for second week. Many farmers are waiting for soil temperatures to improve before planting their corn. Some corn in soil 2 to 3 weeks before emerging. 15% of intended corn acreage has emerged. Soybean planting is just starting. Tobacco plant development varies from conventional beds slow in developing, uneven, some being resowed, to greenhouse plants showing good development, growth with some plants already transplanted. Plant size in beds 56% less than 2 in., 32% 2 to 4 in., 12% larger than 4 in. Winter wheat little or no disease and/or insect damage. Wheat 1% very poor, 11% poor, 31% fair, 45% good, 12% excellent. About 31% crop headed out. Pasture, hay development slowed by cool temperature. Alfalfa weevil varies from non-existent to heavy infestation on some farms. Pasture feed 2% very poor, 13% poor, 39% fair, 40% good, 6% excellent. Hay 1% very poor, 16% poor, 43% fair, 34% good, 6% excellent.

LOUISIANA: Days suitable for fieldwork 2.7. Soil 1% short, 48% adequate, 51% surplus. Corn 3% poor, 16% fair, 53% good, 28% excellent; 99% emerged, 100% 1996, 94% avg. Wet weather forced corn growers to stop fertilizing recently emerged fields. Cotton 4% emerged, 11% 1996, 32% avg. Wet soils, cool weather delayed cotton planting. Hay 11% 1st cutting, 13% 1996, 13% avg. Rice 15% poor, 49% fair, 33% good, 3% excellent. Rice condition improved slightly as mid-week temperatures warmed to more normal levels. Sorghum 40% emerged, 38% 1996, 33% avg.; 5% emerged, 2% 1996, 3% avg.; planting was hindered by excessive soil moisture. Spring plowing 81% plowing, 97% 1996, 90% avg. Sugarcane 6% poor, 31% fair, 47% good, 16% excellent. Sweet potatoes 3% planted, 1% 1996, 3% avg. Wheat 1% very poor, 11% poor, 41% fair, 45% good, 2% excellent; 100% headed, 96% 1996, 94% avg.; 38% turning color, 23% 1996, 33% avg.; 0% harvested, 0% 1996, 0% avg. Wheat producers continued to report leaf rust. Livestock 6% poor, 33% fair, 55% good, 6% excellent. Vegetables 11% poor, 37% fair, 50% good, 2% excellent. Producers took measures to control disease in pepper, tomato plants. Pasture feed warmer weather toward the middle of the week resulted in increased pasture growth.

MARYLAND: Days suitable for fieldwork 4.7. Subsoil 5% short, 71% adequate, 24% surplus. Topsoil 5% short, 73% adequate, 22% surplus. Winter wheat 1% very poor, 3% poor, 21% fair, 62% good, 13% excellent; 18% headed, 9% 1996, 12% avg. Barley 2% very poor, 3% poor, 30% fair, 51% good, 14% excellent; 59% headed, 64% 1996, 65% avg. Rye 1% poor, 20% fair, 74% good, 5% excellent; 59% headed, 60% 1996, 46% avg. Field corn 35% planted, 41% 1996, 36% avg. Cantaloupes 41% planted, 63% 1996, 30% avg. Sweet corn 34% planted, 32% 1996, 31% avg. Watermelons 15% planted, 48% 1996, 23% avg. Tomatoes 59% planted, 69% 1996, 43% avg. Apples 66% bloomed, 59% 1996, 61% avg. Strawberries 60% bloomed, 50% 1996, 56% avg. Hay supplies 5% very short, 16% short, 77% adequate, 2% surplus. Activities: Excessive moisture has slowed field activities. Hail damage reported north of Baltimore.

MICHIGAN: Days suitable for fieldwork 6.0. Cold temperatures, wet soil prevented planting in northern regions. Throughout the lower peninsula, planting continued, cold weather kept spring growth to a minimum. Warmer temperatures, throughout the State, would benefit many fruit, field crops. A frost occurred in some fruit and vegetable regions. Soil moisture kept some farmers out of fields. Farmers welcomed the little rain that occurred during the week. Topsoil 2% very short, 23% short, 70% adequate, 5% surplus. Subsoil 1% very short, 23% short, 71% adequate, 5% surplus. Potatoes planted 59% 1997, 9% 1996, 12% avg. Sugar beets planted 98% 1997, 4% 1996, 32% avg. Asparagus, harvested 1% 1997, 1% 1996, 2% avg.

MINNESOTA: Days suitable for fieldwork 4.3. Topsoil 3% very short, 9% short, 66% adequate, 22% surplus. Corn 77% ground prepared, 45% 1996, 40% avg.; 59% planted, 28% 1996, 24% avg. Soybeans 23% ground prepared, 8% 1996, 11% avg.; 4% planted, 2% 1996, 3% avg. Spring wheat 10% planted, 11% 1996, 34% avg.; 1% emerged, 1% 1996, 7% avg. Oats 60% planted, 52% 1996, 53% avg.; 9% emerged, 5% 1996, 15% avg. Barley 8% planted, 5% 1996, 28% avg.; 1% emerged, 1% 1996, 5% avg.

Sugar beets 30% planted, 10% 1996, 31% avg. Sweet corn 12% planted, 6% 1996, 9% avg. Green peas 38% planted, 30% 1996, 33% avg. Potatoes 28% planted, 7% 1996, 16% avg. Flaxseed 0% planted, 0% 1996, 2% avg. Dry edible beans 1% planted, 0% 1996, 2% avg. Pasture feed 5% very poor, 22% poor, 44% fair, 27% good, 2% excellent. Winter wheat 4% very poor, 7% poor, 58% fair, 31% good. Alfalfa 8% very poor, 21% poor, 41% fair, 28% good, 2% excellent. Rye 2% very poor, 16% poor, 52% fair, 30% good.

MISSISSIPPI: Days suitable for fieldwork 2.6. Soil moisture 41% adequate, 59% surplus. Corn 98% planted, 93% 1996, 87% avg.; 89% emerged, 80% 1996, 73% avg.; 2% poor, 28% fair, 62% good, 8% excellent. Soybeans 23% planted, 28% 1996, 17% avg.; 10% emerged, 15% 1996, 11% avg. Wheat 100% jointing, 100% 1996, 99% avg.; 99% heading, 83% 1996, 86% avg.; 7% very poor, 15% poor, 43% fair, 32% good, 3% excellent. Peanuts 8% planted, 59% 1996, 46% avg. Sweet potatoes 10% planted, 10% 1996, 11% avg. Hay 20% harvested (cool season), 21% 1996, 10% avg. Watermelons 83% planted, 85% 1996, 77% avg.; 49% fair, 49% good, 2% excellent. Blueberries 20% fair, 52% good, 28% excellent. Cattle 1% very poor, 3% poor, 21% fair, 58% good, 17% excellent. Pasture feed 1% very poor, 4% poor, 30% fair, 53% good, 12% excellent. Activities: Planting cotton, rice, sorghum, other crops as weather permitted. Excessive rainfall throughout most of the week continued to halt most fieldwork, slowed crop progress. Many cotton producers are waiting for dry weather to continue planting.

MISSOURI: Days suitable for fieldwork 3.8. Topsoil 10% short, 65% adequate, 25% surplus. Favorable weather permitted most farmers to make significant corn planting progress last week; however, wet fields are still hampering planting efforts northern third of State. Initial planting of soybean, sorghum crops is underway across the State. Most favorable winter wheat condition ratings are found east central, southwest, while less favorable ratings exist southeast. Wheat crop heading stage, largely confined to southern third of State. Oats sown 95%, 100% 1996, 87% avg. Ground tilled for spring crops 77%, 90% 1996, 73% avg. Pasture feed, range 9% poor, 35% fair, 49% good, 7% excellent.

MONTANA: Days suitable for fieldwork 4.1. Topsoil 5% short, 81% adequate, 14% surplus. Subsoil 1% very short, 10% short, 79% adequate, 10% surplus. Snow towards the end of the week has slowed planting progress in the southwest. Planting of spring grains remains behind normal. Field tillage work in progress 36% none, 32% just started, 32% well under way. Oats 19% planted, 15% 1996, 43% avg.; emerged 3%, 2% 1996, 10% avg. Sugar beets 83% planted, 67% 1996, 72% avg.; 8% emerged, 6% 1996. Corn 7% planted, 24% 1996, 35% avg. Potatoes 23% planted, 0% 1996, 15% avg. Calving 93% complete, lambing 80% complete. Cattle moved to summer pasture 21%, sheep moved 8%.

NEBRASKA: Days suitable for fieldwork 3.5. Topsoil 8% short, 72% adequate, 20% surplus. Subsoil 9% short, 82% adequate, 9% surplus. Corn producers made good planting progress the first of the week until rain slowed fieldwork. Rainfall in the eastern third of the State averaged 1 inch, while many southwestern counties received less than twenty-five hundredths of an inch. Winter wheat 2% very poor, 9% poor, 33% fair, 50% good, 6% excellent; 17% jointed, 23% 1996, 44% avg.; best conditions were reported in the south central, central, southeastern portions of State; additional moisture supplies were needed in parts of the southwest, Panhandle. Corn 30% planted, 55% 1996, 32% avg. Oats 87% seeded, 99% 1996, 89% avg.; 43% emerged, 73% 1996. Alfalfa 7% very poor, 6% poor, 33% fair, 47% good, 7% excellent; reports of large amounts of winter kill were received from parts of the north central, northeastern districts. Pasture feed, range 6% poor, 26% fair, 64% good, 4% excellent. Warmer temperatures would encourage pasture growth. Other activities: fertilizer application, seedbed preparation, movement of grain to market, livestock care.

NEVADA: Spring grain planting neared completion while warmer weather encouraged emergence. Planting progress was well west, central, just getting underway northeast. Fall seeded grains were reported in fair to mostly good condition. Fields were being prepared for alfalfa seeding. Irrigation was underway. Repair work on some systems damaged by January flooding. Potato planting was underway. Onion planting was nearly complete and most onions had emerged. Calving and lambing nearly complete. Sheep shearing continued in the northern part of the State. Pasture feed, ranges continue to show good growth. Main farm, ranch activities: Potato

planting, grain planting, field preparations, ditch, hay equipment repair, working livestock, irrigating, spraying.

NEW ENGLAND: Days suitable for fieldwork 4.6. Topsoil 54% adequate, 46% surplus. Subsoil 50% adequate, 50% surplus. Pasture feed 20% very poor, 34% poor, 21% fair, 19% good, 6% excellent. Massachusetts potatoes 20% planted, 25% 1996, 20% avg. Rhode Island potatoes 40% planted, 20% 1996, 15% avg. Field corn <5% planted, <5% 1996, <5% avg. Sweet corn 10% planted, 10% 1996, 10% avg. Strawberries dormant. Apples, pears, cranberries and blueberries in bud stage. Peaches in early bloom stage. Cool, wet weather continues to delay crop development, fieldwork progress throughout the region. Major farm activities: Plowing, harrowing, discing, fertilizing, liming well drained fields. Planting corn on driest soils. Application of dormant oils, pre-emergence herbicides to fruit crops.

NEW JERSEY: Days suitable for fieldwork 5. Topsoil adequate to surplus. Farmers are busy tilling, planting, harvesting and spreading lime, fertilizer. Currently, planting tomatoes, peppers, squash, sweet corn, snap beans. Harvesting of asparagus, kale, herbs, leeks, radishes, spinach. Peaches are in shuck split stage. Strawberries, apples are blooming.

NEW MEXICO: Days suitable for fieldwork 6.2. Soil 2% very short, 23% short, 70% adequate, 5% surplus. Good weather during last week provided excellent conditions for planting; cotton 65% complete, 63% 1996, 64% avg.; corn 51% complete, 57% 1996. Warm dry weather last week was preceded by good precipitation allowing most crop conditions to improve. Chile 29% fair, 53% good, 18% excellent; onion 1% fair, 74% good, 25% excellent; lettuce 10% fair, 40% good, 50% excellent; corn 5% fair, 91% good, 4% excellent. Winter wheat 2 poor, 33% fair, 62% good, 3% excellent; 24% headed. The first cutting of alfalfa 10% complete; 5% poor, 28% fair, 54% good, 13% excellent. Ranchers continue to move livestock to spring pastures, while calving, branding continues. Cattle, sheep mostly fair to good condition. Range, pasture feed 1% very poor, 7% poor, 34% fair, 49% good, 9% excellent.

NEW YORK: Days suitable for fieldwork 5.2. Soil moisture 100% adequate. Pasture feed 44% fair, 56% good. Wheat 50% fair, 50% good. Oats 28% seeded, 4% 1996, 29% avg. Oats good. Corn 5% planted, 1% 1996, 5% avg. Potato planting in full swing. Producers spreading manure. Apples at half-inch green to pink stage. Peaches, pears at full bloom in Hudson Valley region. Grape producers tying vines, working on trellis repair. Vegetable planting more widespread as warmer weather prevailed. Onion planting in full swing. Earliest planted fields up and in good condition.

NORTH CAROLINA: Days suitable for fieldwork 3.1. Continuing wet conditions across the State are reversing the gains made in planting progress early in the season. Farmers have had two short work weeks in a row. Wet weather is also causing crop conditions to decline in most areas. Tobacco plant supply is becoming short in some areas as reports indicate 40% short to very short supplies. Soil moisture 49% adequate, 51% surplus. Activities included: Planting corn, cotton, peanuts, tobacco; preparation of tobacco, peanut, cotton, vegetable land for planting; maintaining pastures; tending livestock; repairing equipment; general farm maintenance.

NORTH DAKOTA: Generally dry conditions Statewide allowed farmers to begin fieldwork, start planting. Statewide average starting date for fieldwork was May 3, behind 1996, average. Topsoil 2% short, 77% adequate, 21% surplus. Subsoil 4% short, 75% adequate, 21% surplus. Durum wheat 3% planted, 2% 1996, 13% avg.; corn 5% planted, 3% 1996, 7% avg.; potatoes 0% planted, 2% 1996, 5% avg.; sugar beets 23% planted, 5% 1996, 38% avg. Spring calving 89% complete, lambing 91%. Pasture, ranges 45% remain dormant; 84% open for grazing. Pasture feed 11% very poor, 10% poor, 30% fair, 44% good, 5% excellent.

OHIO: Days suitable for fieldwork 5.4. Topsoil 1% very short, 14% short, 78% adequate, 7% surplus. Warmer, mostly dry all week. Ground temperatures still below average, corn planting on a record pace; corn emerged, at 3%, twice the normal rate. Corn planted is most advanced in the central, west central, northwest districts; least advanced in northeast district. Oat seeding nearly complete 54% of crop has emerged, 26% 1996, 37% avg. Soybean planting at 29%, 0% 1996, 4% avg. Potato planting 50% complete, 11% 1996, 30% avg. In southern districts, tobacco beds 97%

seeded; tomatoes, peppers are being set; 3rd, 4th planting of sweet corn is going in. Other work includes machinery repair; field tillage; spreading manure; applying anhydrous ammonia, dry fertilizer, herbicides. Apple 12% very poor, 17% poor, 36% fair, 31% good, 4% excellent. Peach 30% very poor, 26% poor, 26% fair, 16% good, 2% excellent. Hay 2% very poor, 10% poor, 40% fair, 41% good, 7% excellent. Pasture feed 3% very poor, 11% poor, 36% fair, 44% good, 6% excellent. Growth slow due to below average temperatures; some farmers still feeding hay. Some livestock are considered thin. Calving season continues.

OKLAHOMA: Warm temperatures, gusty winds advanced the heading of wheat, other small grains. Days suitable for fieldwork 4.5. Topsoil 3% short, 85% adequate, 12% surplus. Subsoil 1% short, 90% adequate, 9% surplus. Wheat 100% jointing, 95% 1996, 98% avg.; 5% soft dough, 3% 1996, 9% avg.; Oats 82% jointing, 57% 1996, 68% avg.; 54% heading, 18% 1996, 30% avg.; Corn 33% planted, 80% 1996, 79% avg.; 20% up-to-stand, 24% 1996, 49% avg.; Sorghum 39% seedbed prepared, 36% 1996, 50% avg.; 3% up-to-stand, 3% 1996, 3% avg.; Soybeans 79% seedbed prepared, 70% 1996, 65% avg.; 18% planted, 23% 1996, 17% avg.; 9% up-to-stand, 8% 1996, 6% avg.; peanuts 74% seedbed prepared, 82% 1996, 74% avg.; 16% planted, 8% 1996, 5% avg; Cotton 73% seedbed prepared, 64% 1996, 72% avg; Alfalfa hay 10% 1st cutting, 4% 1996, 20% avg.; watermelons 40% planted, 36% 1996, 9% avg.; livestock 3% poor, 20% fair, 72% good, 5% excellent. Feeder steers and heifers steady to \$2 per cwt. higher.

OREGON: Days suitable for fieldwork 5.3. Topsoil 2% short, 92% adequate, 6% surplus. Subsoil 2% short, 93% adequate, 5% surplus. All barley 80% planted, 57% 1996, 74% avg. Winter wheat 14% fair, 73% good, 13% excellent. Activities: Small grain fieldwork continued Statewide. Western fieldwork delayed, wet conditions. Small grain development behind normal, crops look good. Field corn seeding underway in the east. Freezing temperatures damaged some sugar beets in central areas. Nursery, greenhouse planting and shipping continued. Vegetable field activity delayed Statewide. Some light fruit frost damage, Rogue, Hood River valleys. Hood River Valley: pears at petal drop in lower valley; upper valley at full bloom. Mid-Columbia: Royal Ann cherries beginning to show. Willamette Valley: strawberry bloom underway; caneberry pruning, tying underway, some early snap beans emerged. Southern coast cranberry development varied from cabbage head-hook. Livestock condition good. Northeastern mountains: branding, turnout continued. Eastern pasture feed conditions improved. Western calving winding down, pasture feed normal.

PENNSYLVANIA: Fair week for fieldwork. Days suitable for fieldwork 4.5. Soil moisture 3% very short, 38% short, 56% adequate, 3% surplus. Plowing 70% complete, 51% 1996, 56% avg. Corn 20% complete, 11% 1996, 13% avg. Soybeans planted 3% complete, 1% 1996, 1% avg. Oats planted 75% complete, 56% 1996, 61% avg. Potatoes planted 25% complete, 19% 1996, 25% avg. Barley 15% heading or headed, 16% 1996, 8% avg. Wheat 2% very poor, 6% poor, 32% fair, 55% good, 5% excellent. Oat 30% fair, 69% good, 1% excellent. Alfalfa and alfalfa mixtures stand 4% very poor, 11% poor, 35% fair, 46% good, 4% excellent. Timothy clover stand 6% very poor, 12% poor, 35% fair, 45% good, 2% excellent. Peaches 90% pink, 54% 1996, 64% avg.; 65% full bloom or past, 35% 1996, 42% avg. Cherries 85% pink, 57% 1996, 68% avg.; 65% full bloom or past, 37% 1996, 49% avg. Apples 80% pink, 31% 1996, 47% avg.; 50% full bloom or past, 11% 1996, 21% avg. Activities: Plowing; planting oats, corn; spreading fertilizer; fixing fences; machinery maintenance; hauling manure; caring for livestock.

SOUTH CAROLINA: Soil moisture 1% short, 78% adequate, 21% surplus. Barley 89% headed, 85% 1996; 6% fair, 47% good, 47% excellent. Cantaloupes 96% planted, 94% 1996, 82% avg.; 1% very poor, 5% poor, 42% fair, 50% good, 2% excellent. Corn 99% planted, 98% 1996, 98% avg.; 2% poor, 17% fair, 67% good, 14% excellent. Cucumbers 100% planted, 82% 1996, 79% avg.; 15% fair, 23% good, 62% excellent. Hay 48% harvested, 42% 1996, 37% avg.; 2% very poor, 2% poor, 30% fair, 59% good, 7% excellent. Oats 97% headed, 84% 1996, 84% avg.; 27% turn color, 24% 1996, 21% avg.; 1% poor, 27% fair, 63% good, 9% excellent. Peaches 1% very poor, 3% poor, 23% fair, 28% good, 45% excellent. Rye 92% headed, 86% 1996; 33% turn color, 13% 1996, 24% avg.; 1% poor, 31% fair, 62% good, 6% excellent. Snap beans 84% planted, 68% 1996, 66% avg.; 3% poor, 6% fair, 39% good, 52% excellent. Sorghum 30% planted, 24% 1996, 14% avg.; 85% good, 15% excellent. Sweet potatoes 21% planted, 12% 1996, 16% avg; 50% fair, 50% good. Tobacco 92% planted, 95% 1996, 90% avg.; 41% poor, 18% fair, 41% good. Tomatoes 92% planted,

97% 1996, 99% avg.; 5% fair, 49% good, 46% excellent. Watermelons 100% planted, 91% 1996, 86% avg.; 4% poor, 32% fair, 57% good, 7% excellent. Winter wheat 97% headed, 87% 1996, 83% avg.; 30% turn color, 9% 1996, 12% avg.; 2% poor, 14% fair, 66% good, 18% excellent.

SOUTH DAKOTA: Temperatures below normal, precipitation light to heavy. Topsoil 48% adequate, 52% surplus. Subsoil 46% adequate, 54% surplus. Days suitable for fieldwork 2.0. Winter wheat acreage 89% breaking dormancy, winter rye 95% breaking dormancy. Winter freeze damage for winter wheat 27% none, 24% light, 19% moderate, 30% severe. Winter freeze damage for winter rye 47% none, 42% light, 10% moderate, 1% severe. Winter rye 6% poor, 47% fair, 36% good, 11% excellent. Livestock 1% very poor, 8% poor, 25% fair, 60% good, 6% excellent. Calving 80% complete. Newborn calf death losses 4% below average, 67% average, 29% above average. Lambing 76% complete. Newborn lamb death losses 2% below average, 77% average, 21% above average. Feed supplies 10% very short, 21% short, 65% adequate, 4% surplus. Stock water 61% adequate, 39% surplus.

TENNESSEE: State's crop progress, planting continue to move at a slow pace due showers, cool temperatures last week. Warm weather during the day benefited the crops, cool nights followed which hindered development. Days suitable for fieldwork 3.0. Topsoil 1% short, 68% adequate, 31% surplus. Subsoil 2% short, 74% adequate, 24% surplus. Corn 78% planted, 82% 1996, 74% avg. Tobacco 98% plants up, 94% 1996, 96% avg.; 3% transplanted, 6% 1996, 6% avg. Wheat 1% very poor, 6% poor, 28% fair, 51% good, 14% excellent; 75% headed, 35% 1996, 60% avg. Sorghum 13% planted, 9% 1996, 19% avg. Pasture feed 4% poor, 26% fair, 58% good, 12% excellent. Alfalfa hay 5% poor, 30% fair, 49% good, 16% excellent; 4% 1st cutting, 5% 1996, 7% avg. Cattle 4% poor, 25% fair, 58% good, 13% excellent. Strawberries 2% very poor, 12% poor, 38% fair, 39% good, 9% excellent.

TEXAS: Most areas had a return to drier, near-normal temperatures by mid-week. Fieldwork increased rapidly with open conditions. East and Upper Coast were the wettest areas, with planting progress slow in these areas. Crop conditions improved by late week in most areas with warmer weather. Livestock conditions remained very good across the State. Ranges and pastures showed increased greening and growth.

Crops: Small Grains: Many fields in the High Plains were growing out after damage from freeze. However, loss estimates continued to range from slight to severe. Fields from north-central areas through south-central areas continued to head out, some were beginning to turn color. Harvest was getting underway in some fields in the Coastal Bend area. Corn: Planting increased in the High Plains, where emerged fields were off to slow start, because recent cold weather and prolonged wetness was in some fields. Progress was fair to good on fields in the central and southern areas. Fields along the Upper Coast were progressing slowly due to prolonged wet conditions. Statewide, 77% normal compared with 57% in 1996. Cotton: Some planting got underway in the Plains on irrigated fields. Land preparations continued in other fields. Progress was slow on fields in the central areas because of excessive wet conditions in many of these fields. Some early fields in Coastal Bend and Rio Grande Valley were beginning to square. Much of the crop in Rio Grande Valley is behind schedule. Some late planting occurred. Grain sorghum: Land preparations continued in the Plains, while planting was increasing the north-central fields. Conditions improved in many central areas, with open, sunny conditions by mid-week. Planting again slowed along the Upper Coast. Fields in the Coastal Bend and Rio Grande Valley were beginning to boot. Statewide condition was 80% of normal compared with 52% in 1996. Peanuts: Planting increased in the Plains. Land preparations continued in the north-central fields. Rice: Planting progressed slowly along the Upper Coast as more rain fell early in the week. Emerged fields showed slow growth. Rice 73% normal, compared with 74% 1996. Soybeans: Planting increased in the north-central areas, and land preparations increased in the High Plains. Producers along Upper Coast may switch to later varieties as wet conditions prolonged planting early varieties. Sugar beets: Most planted fields are up to good stands. Freeze had little effect on most fields. Other crops: sugar beets 83% planted, 90% 1996, and 93% avg. Sunflowers were 8% planted, compared with 6% in 1996, and the 13% avg.

Commercial Vegetables: In the Rio Grande Valley, harvest of onions, cabbage, and carrots continued under open conditions. Harvest of grapefruit was winding down for the season. San Antonio-Winter Garden, watermelon progress improved with open conditions. Carrot harvest continued, and onion harvest neared. In the High Plains, onions and potatoes were making

good progress. In the east, land preparations were slowed by wet conditions. Watermelons showed slow growth. Trans-Pecos: chilies were emerging to good stands. Irrigation continued on onions. Peaches: Thinning and spraying continued on a very good crop in most areas. Freeze damage was limited to the northern areas. Pecans: Trees were leafing out and in the pollination stage in many central areas, where scouting for case bearers was beginning. A good crop is expected in many groves in the central and southern areas. Freeze damage in the north-central areas was heavy in some groves.

Range and Livestock: Growth and greening increased in many areas under drier, sunny conditions by mid-week. Livestock conditions were good across the State. Markets remained steady. Sheep producers were shearing and marking sheep and lambs.

UTAH: Days suitable for fieldwork 5. Topsoil 7% short, 65% adequate, 28% surplus. Subsoil 7% short, 67% adequate, 26% surplus. Pasture feed, range 3% poor, 22% fair, 56% good, 19% excellent. Spring wheat planted 90%, 96% 1996, 93% avg.; emerged 70%, 77% 1996, 70% avg. Barley planted 90%, 94% 1996, 91% avg.; emerged 70%, 72% 1996, 69% avg. Oats planted 65%, 56% 1996, 64% avg.; emerged 35%, 29% 1996, 38% avg. Corn planted 27%, 37% 1996, 33% avg. Alfalfa hay height 7 in., 7 in. 1996, 8 in. avg. Potatoes planted 35%, 15% 1996. Sweet cherries full bloom or past 60%, 100% 1996. Tart cherries full bloom or past 45%, 100% 1996. Apples full bloom or past 20%, 80% 1996, 28% avg. Pears full bloom or past 75%, 100% 1996. Cattle, calf 13% fair, 68% good, 19% excellent. Sheep, lamb 10% fair, 73% good, 17% excellent. Cows calved 95%, 94% 1996, 95% avg. Ewes lambing: on farm 98%, 98% 1996, 96% avg.; on range 75%, 76% 1996, 76% avg. Sheep sheared: on farm 95%, 94% 1996, 94% avg.; on range 85%, 84% 1996, 83% avg. Major farm, ranch activities: Spring planting and tillage, spraying for weeds, shearing sheep, lambing, calving.

VIRGINIA: Days suitable for fieldwork 3.2. Topsoil 65% adequate, 35% surplus. Subsoil 85% adequate, 15% surplus. Corn 35% planted, 44% 1996, 46% avg.; 5% poor, 45% fair, 47% good, 3% excellent. Soybeans 2% planted, 2% 1996, 4% avg. Cotton 20% planted, 46% 1996, 47% avg. Winter wheat 6% poor, 21% fair, 62% good, 11% excellent. Barley 5% poor, 25% fair, 65% good, 5% excellent. Apples 5% very poor, 30% poor, 60% fair, 5% good. Peaches 30% very poor, 30% poor, 30% fair, 10% good. Tobacco greenhouses 8% fair, 40% good, 52% excellent. Tobacco plantbeds 3% poor, 24% fair, 72% good, 1% excellent. Flue tobacco transplanted 1%, 4% 1996, 12% avg. Peanuts 20% planted, 22% 1996, 23% avg. Summer potatoes 20% fair, 67% good, 13% excellent. Pasture feed 5% poor, 31% fair, 58% good, 6% excellent. Alfalfa 2% poor, 25% fair, 65% good, 8% excellent. Other hay 4% poor, 30% fair, 57% good, 9% excellent. Planting of field crops continued behind schedule because of wet weather. Crops already planted not fully benefitted from timely rains due to cool temperatures. Producers scouting, treating small grain crops. Vegetable crops being planted, transplanted as field conditions permit. Flue cured tobacco transplanting began last week. Cool nighttime temperatures slowed forage growth, some producers are feeding hay to cattle.

WASHINGTON: Days suitable for fieldwork 4.0. Topsoil 1% short, 70% adequate, 29% surplus. Subsoil 4% short, 84% adequate, 12% surplus. Wet, cool conditions across the State continue to delay spring fieldwork. Counties in northeastern areas standing water in some fields, flooding in other areas. Some areas were two to three weeks behind normal in fieldwork. Winter wheat, dryland 2% poor, 33% fair, 50% good, 15% excellent; irrigated 5% fair, 85% good, 10% excellent. Spring wheat 80% planted, 65% 1996, 79% avg.; 55% emerged, 46% 1996, 66% avg. Spring wheat, dryland 8% poor, 40% fair, 42% good, 10% excellent; irrigated 6% fair, 85% good, 9% excellent. Wheat crop, behind normal due to cool, wet conditions. Barley 72% planted, 55% 1996, 75% avg.; 31% emerged, 38% 1996, 58% avg.; dryland 10% poor, 50% fair, 30% good, 10% excellent; irrigated 5% fair, 95%

good. Corn 45% planted, 36% 1996, 37% avg. Dry peas 25% planted, 23% 1996, 63% avg. Potatoes 89% planted, 81% 1996, 79% avg.; 45% emerged, 37% 1996, 28% avg. Potatoes, 4% fair, 92% good, 4% excellent. Hay, other roughage supplies, 8% very short, 20% short, 72% adequate. Range, pasture feed 10% poor, 15% fair, 73% good, 2% excellent. Livestock were out on pastures except where the soil is still too saturated. Cool season grasses were growing, pasture conditions were steadily improving in eastern areas. Field preparation and planting of vegetables slowed by heavy rains throughout the week in western areas. Asparagus cutting was slow due to cool weather. Strawberries were blooming, ginseng was up and growing. Turfgrass growers fertilized fields, applied broadleaf weed killers. Bud breakage and blossom were prolonged in central areas with some frost damage reported in apples, cherries in early areas.

WEST VIRGINIA: Farmers made good crop progress despite cooler temperatures, rain, at times windy conditions. Days suitable for fieldwork 3.9. Topsoil 6% short, 87% adequate, 7% surplus. Intended acreage prepared for spring planting 78%, 60% 1996. Corn 22% planted, 26% 1996, 29% avg. Hay 5% poor, 48% fair, 45% good, 2% excellent. Pasture feed 1% very poor, 10% poor, 52% fair, 34% good, 3% excellent. Cold weather conditions have slowed growth of pastures, hay. Oats 76% planted, 69% 1996, 68% avg.; 45% emerged, 38% 1996, 44% avg. Soybean 3% planted, 1% 1996. Tobacco beds 99% seeded, 99% 1996, 97% avg.; tobacco beds 95% emerged, 93% 1996, 85% avg. Wheat 1% poor, 66% fair, 33% good. Apple 95% fair, 5% good. Peach 100% fair. Cattle 1% poor, 19% fair, 74% good, 6% excellent; 93% calved. Sheep 11% fair, 88% good, 1% excellent; 98% lambing. Hay, roughage supplies 1% very short, 12% short, 87% adequate. Feed grain supplies 7% short, 93% adequate. Activities: Field preparation for planting, planting corn, oats, soybeans; applying fertilizer; seeding meadows, feeding some hay to livestock, repairing fences, calving, lambing, general maintenance.

WISCONSIN: Days suitable for fieldwork 4.9. Soil moisture: 6% very short, 17% short, 67% adequate, 10% surplus. Last time the planting conditions were this good was in 1994 when 26% of the corn acreage was planted. As of May 4, spring tillage jumped to over half done at 56% complete, compared to 29% 1996, 33% avg. Some reporters commented that fields were becoming almost too dry to work in areas. Mid-week weather conditions provided needed rain showers, only mist, light snow in some northern counties. Oats were reported up in the southern half of the State. Winter wheat freeze damage was rated 51% none, 36% light, 11% moderate, 2% severe. In Fond du Lac and Winnebago counties, winter wheat looked good. Pasture feed 2% very poor, 20% poor, 49% fair, 28% good, 1% excellent. Although cattle were seen on pastures for the first time this year, new growth of grass is still slow. Some potatoes, peas had emerged in Dane County. Also no-till soybeans were planted in Walworth County. In Sauk County fruit growers sprayed apple trees. Some fruit trees had buds in Jefferson county, bud development seemed slow in Racine County.

WYOMING: Days suitable for fieldwork 3.8. Topsoil 1% very short, 8% short, 71% adequate, 20% surplus. Winter wheat insect damage 41% none, 59% light. Barley 81% planted, 84% 1996, 82% avg.; 49% emerged, 48% 1996, 51% avg. Oats 53% planted, 58% 1996, 59% avg.; 14% emerged, 13% 1996, 21% avg. Spring wheat 42% planted, 58% 1996, 57% avg.; 18% emerged, 21% 1996, 24% avg. Sugar beets 94% planted, 83% 1996, 87% avg.; 16% emerged, 11% 1996, 19% avg. Corn 24% planted, 42% 1996, 33% avg. Range, pasture feed 1% very poor, 1% poor, 19% fair, 78% good, 1% excellent. Spring calves born 94%, 94% 1996, 93% avg. Farm flock ewes lambing 96%, 97% 1996, 97% avg.; shorn 91%, 96% 1996, 96% avg. Range flock ewes lambing 43%, 36% 1996, 40% avg.; shorn 70%, 75% 1996, 78% avg. Hay, roughage supplies 18% very short, 33% short, 38% adequate, 11% surplus. Moisture supplies improved. Sunshine, warmer weather needed for crops, pastures.

April 1997

MONTHLY DATA FROM SELECTED FOREIGN CITIES
CLIMATE PREDICTION CENTER-NCEP-NWS-NOAA
*** DATA NOT AVAILABLE

International Weather and Crop Summary

April 27 - May 3, 1997

HIGHLIGHTS

FSU-WESTERN: Dry weather helped spring fieldwork in Ukraine and central Russia.

NORTHWESTERN AFRICA: Hot, dry weather hastened winter grain maturity in Morocco.

EUROPE: Light rain eased long-term dryness in the northwest, while hot, dry weather hastened winter grain maturity in southern Spain.

AUSTRALIA: Beneficial rain swept through winter grain regions of the west and southeast.

SOUTH AFRICA: Mostly dry, cool weather favored maturing corn and promoted seasonal field activities.

SOUTHEAST ASIA: In the Philippines, dryness continued across the central and western islands, reducing moisture for main-season rice.

EASTERN ASIA: Rain continued to benefit vegetative to reproductive winter wheat in the North China Plain, while rain is still needed for spring wheat germination in Manchuria.

SOUTH AMERICA: Mostly dry weather favored summer crop harvesting across the region and early winter wheat planting in southern Brazil.

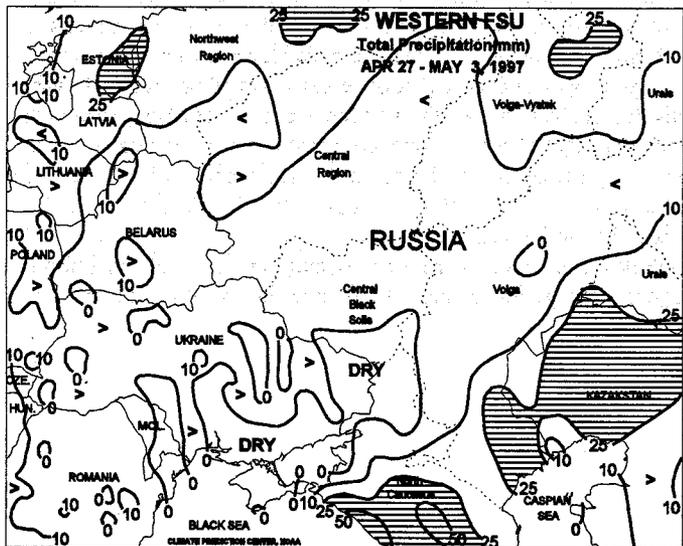
COUNTRY	CITY	TEMPERATURE (C)					PRECIPITATION (MM)		
		AVG MAX	AVG MIN	HI MAX	LO MIN	AVG	DPART F/NRM	TOTAL	DPART F/NRM
NORWAY	OSLO	9	-1	17	-7	4	1.2	13	-35
SWEDEN	STOCKHOLM	9	-1	15	-7	4	-0.5	47	17
FINLAND	HELSINKI	6	-2	14	-9	2	-0.9	43	7
UKINGDO	GLASGOW	13	5	18	-2	9	0.9	51	-12
	EDINBURGH	13	5	18	-2	9	2.2	36	-5
	BIRMINGHAM	14	4	20	-5	9	1.3	38	-10
	LONDON	15	3	22	-5	9	1.1	10	-44
IRELAND	DUBLIN	13	5	18	-1	9	1.0	56	5
ICELAND	REYKJAVIK	6	2	11	-6	4	1.2	92	34
DENMARK	COPENHAGEN	9	2	14	-4	5	-1.2	44	5
LUXEMBO	LUXEMBOURG	13	3	20	-1	8	0.2	35	-24
SWITZERL	ZURICH	13	3	20	-3	8	-0.1	93	2
	GENEVA	15	3	22	-2	9	0.7	46	-19
FRANCE	PARIS/ORLY	16	4	23	-1	10	***	27	**
	STRASBOURG	15	3	22	-3	9	-0.2	33	-13
	BOURGES	17	4	23	-1	10	0.7	25	-26
	BORDEAUX	20	7	25	1	14	2.4	25	-43
	TOULOUSE	20	7	24	2	13	2.3	24	-38
	MARSEILLE	19	9	24	4	14	1.3	21	-23
SPAIN	VALLADOLID	21	7	26	0	14	3.7	38	-4
	MADRID	22	9	27	3	15	3.0	39	-4
	SEVILLE	26	14	35	10	20	3.2	25	-34
PORTUGA	LISBON	23	14	33	12	19	3.5	49	-2
GERMANY	HAMBURG	11	2	16	-4	7	-0.5	52	1
	BERLIN	12	3	18	-3	7	-1.2	60	19
	DUSSELDORF	13	3	18	-4	8	-1.7	69	18
	LEIPZIG	11	2	17	-4	7	-1.4	52	11
	DRESDEN	9	2	17	-4	6	-2.6	77	31
	STUTTGART	12	2	19	-4	7	-1.6	53	-2
	NURNBERG	12	1	18	-6	6	-1.9	37	-11
AUSTRIA	VIENNA	13	3	31	-5	8	-2.2	51	8
	INNSBRUCK	12	2	21	-4	7	-1.7	94	33
CZECHRE	PRAGUE	10	1	18	-5	5	-2.3	50	12
POLAND	WARSAW	10	1	20	-5	5	-2.5	51	18
	LODZ	9	1	19	-5	5	-2.3	53	3
	KATOWICE	10	1	21	-5	5	-2.3	60	6
	PRZEMYSL	9	1	21	-3	5	-3.3	73	25
HUNGARY	BUDAPEST	13	3	22	-3	8	-3.0	40	2
YUGOSLA	BELGRADE	13	4	22	-1	8	-3.9	107	48
ROMANIA	BUCHAREST	12	3	21	-1	8	-3.7	168	124
BULGARIA	SOFIA	10	1	19	-7	5	-5.2	68	13
ITALY	MILAN	20	7	27	2	13	1.3	30	-58
	VERONA	18	5	24	0	12	-0.4	50	-16
	VENICE	15	7	20	2	11	-1.2	48	-22
	GENOA	17	11	24	8	14	-0.6	34	-52
	ROME	17	4	24	1	11	-2.7	78	28
	NAPLES	17	7	25	2	12	-1.0	57	-20
GREECE	THESSALONIKA	14	5	22	-1	10	-4.3	58	22
	LARISSA	15	5	25	-2	10	-4.1	57	27
	ATHENS	16	10	22	4	13	-3.1	81	65
TURKEY	ISTANBUL	13	6	23	-1	9	-1.4	96	58
	ANKARA	11	1	25	-10	6	-5.4	98	72
CYPRUS	LARNACA	20	10	31	2	15	-1.6	41	21
ESTONIA	TALLINN	6	-2	16	-9	2	-0.9	59	25
LITHUANI	KALUNAS	8	1	21	-5	5	-1.5	60	19
BELARUS	MINSK	8	0	21	-5	4	-2.0	62	19
RUSSIA	KAZAN	8	1	20	-8	4	-0.4	125	90
	MOSCOW	8	1	21	-6	5	-1.2	40	-1
	YEKATERINBURG	11	2	17	-4	6	2.1	81	53
	OMSK	15	3	28	-3	9	6.0	22	2
	NOVOSIBIRSK	15	4	24	-3	9	9.9	15	2
	BARNAUL	17	3	32	-3	10	6.9	9	-16
	KHABAROVSK	11	-1	22	-12	5	0.5	51	8
	VLADIVOSTOK	12	3	21	-2	7	2.8	36	-29
	SARATOV	11	4	22	-3	8	0.9	75	48
	VOLGOGRAD	13	4	21	-5	8	-0.5	108	84
	ROSTOV	13	4	20	-2	9	-2.3	102	56
	ASTRAKHAN	16	5	26	-2	11	-0.5	49	32
	KRASNODAR	15	6	27	-2	10	-1.2	161	108
	ORENBURG	12	3	20	-4	8	0.6	97	74

Based on Preliminary Reports

April 1997

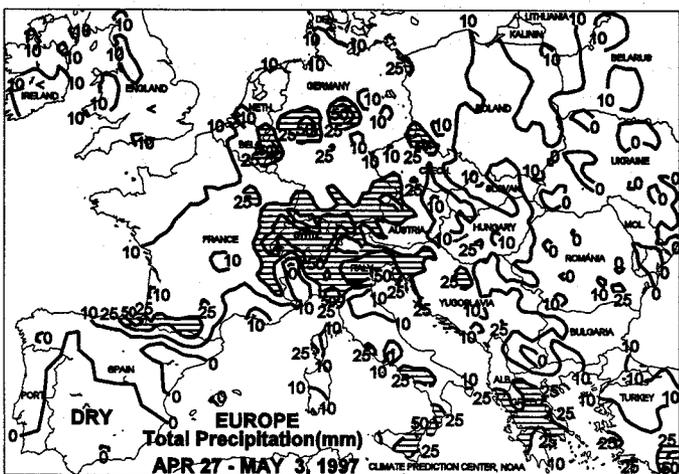
COUNTRY CITY	TEMPERATURE (C)					PRECIPITATION (MM)			COUNTRY CITY	TEMPERATURE (C)					PRECIPITATION (MM)		
	AVG MAX	AVG MIN	HI MAX	LO MIN	AVG	D PART F/NRM	TOTAL	D PART F/NRM		AVG MAX	AVG MIN	HI MAX	LO MIN	AVG	D PART F/NRM	TOTAL	D PART F/NRM
KAZAKHS TSELINOGRAD	16	5	29	-3	10	7.3	25	11	ZAMBIA LUSAKA	**	**	29	7	**	149	132	
KARAGANDA	17	4	30	-5	11	5.3	17	-4	ZIMBABW HARARE	25	14	28	11	20	1.3	53	9
GEORGIA TBILISI	18	7	30	-2	12	-0.8	69	15	S AFRICA PRETORIA	23	11	26	6	17	-1.1	51	-4
UZBEKIST TASHKENT	22	11	32	6	17	1.3	78	18	JOHANNESBURG	19	8	22	2	14	-1.6	32	-20
TURKMENI ASHKHABAD	25	12	35	4	18	1.4	65	23	BETHAL	21	7	24	1	14	-1.5	38	0
SYRIA DAMASCUS	23	6	38	-8	14	-1.5	15	2	DURBAN	25	17	29	9	21	-1.0	180	107
ISRAEL JERUSALEM	19	9	34	-1	14	-2.0	37	3	CAPE TOWN	22	11	33	4	17	0.0	38	1
PAKISTAN KARACHI	31	22	36	18	27	-1.6	4	-1	CANADA TORONTO	11	0	23	-9	6	-0.3	29	-35
INDIA AMRITSAR	31	16	40	11	24	-1.4	40	14	MONTREAL	10	-1	22	-11	5	-1.0	86	11
NEW DELHI	34	20	40	14	27	-2.1	13	-2	WINNIPEG	4	-6	14	-22	-1	-4.5	32	-4
AHMEDABAD	37	23	42	19	30	-1.3	13	11	SASKATOON	8	-3	21	-15	2	-1.7	28	8
INDORE	36	20	41	14	28	-1.6	13	10	LETHBRIDGE	10	-4	21	-16	3	-2.7	23	-13
CALCUTTA	33	22	36	17	27	-3.4	160	125	CALGARY	9	-5	22	-14	2	-2.1	13	-12
VERAVAL	31	23	36	20	27	0.1	0	0	EDMONTON	8	-3	22	-13	3	-2.3	44	21
BOMBAY	32	24	36	19	28	-0.5	0	0	VANCOUVER	13	5	20	0	9	0.2	108	33
POONA	36	19	39	11	27	-1.9	7	-5	MEXICO GUADALAJARA	**	**	31	8	**	**	**	**
BEGAMPET	36	22	39	16	29	-2.1	59	39	MEXICO CITY	25	13	30	9	19	1.0	48	35
VISHAKHAPATNAM	31	25	33	23	28	**	49	**	ACAPULCO	**	24	34	20	**	**	0	-5
MADRAS	35	25	38	21	30	-0.7	20	9	BERMUDA ST. GEORGES	20	16	24	11	18	-1.1	76	-5
MANGALORE	34	24	37	20	29	0.0	13	-27	BAHAMAS NASSAU	29	20	33	15	25	1.3	69	17
HONGKO KINGS PEAK	25	21	29	18	23	**	230	**	JAMAICA KINGSTON	31	24	33	21	28	0.8	48	12
N KOREA PYONGYANG	**	**	19	-2	**	**	**	**	P RICO SAN JUAN	31	23	34	20	27	0.4	2	-90
S KOREA SEOUL	18	8	22	3	13	2.7	59	-9	GUADELOUPE RAIZET	31	21	32	17	26	0.6	73	1
JAPAN SAPPORO	12	4	23	-2	8	1.1	59	-4	MARTINIQU LAMENTIN	30	22	31	18	26	0.8	61	-58
NAGOYA	20	10	26	4	15	1.0	182	11	BARBADO BRIDGETOWN	30	23	31	19	27	0.1	85	29
TOKYO	19	12	27	8	15	1.3	145	22	TRINIDAD PORT OF SPAIN	32	23	33	20	27	0.7	86	50
YOKOHAMA	19	12	25	7	15	1.6	165	23	COLOMBIA BOGOTA	19	9	21	4	14	0.4	68	-34
KYOTO	20	10	26	4	15	1.1	136	-27	VENEZUE CARACAS	30	23	33	21	27	1.0	0	-23
OSAKA	20	11	27	6	15	0.7	173	36	F GUIANA CAYENNE	30	23	32	21	27	0.6	259	-144
THAILAND PHETCHABUN	35	23	38	21	29	-1.1	84	9	BRAZIL FORTALEZA	30	24	32	22	27	0.4	274	-58
BANGKOK	35	27	37	23	31	0.4	96	27	RECIFE	30	23	31	21	26	0.1	341	15
MALAYSIA KUALA LUMPUR	33	24	34	21	29	1.6	308	36	BELO HORIZONTE	27	17	31	15	22	0.2	67	4
VIETNAM HANOI	28	23	32	18	25	1.5	234	153	CAMPO GRANDE	29	18	32	15	24	-0.1	112	22
CHINA HARBIN	15	1	27	-7	8	2.3	12	-12	FRANCA	26	17	28	13	21	3.9	62	-18
HAMI	24	8	34	1	16	2.8	7	5	RIO DE JANEIRO	**	**	28	20	**	**	**	**
LANCHOW	19	6	32	1	13	0.9	37	18	LONDRINA	27	16	31	11	22	-0.1	67	-47
BEIJING	20	8	28	3	14	0.3	17	-9	SANTA MARIA	25	14	32	7	20	0.9	66	-68
TIENTSIN	21	9	29	3	15	0.6	15	-11	PORTO ALEGRE	26	15	33	7	21	1.0	21	-82
LHASA	13	0	16	-4	6	-1.7	32	26	PERU LIMA	25	19	28	18	22	1.3	0	0
KUNMING	21	10	26	6	16	-0.5	71	45	BOLIVIA LA PAZ	13	0	18	-3	6	-2.1	41	11
CHENGCHOW	21	10	33	1	15	-0.3	48	0	CHILE SANTIAGO	25	8	32	5	17	2.4	0	-9
YEHCHANG	21	13	33	7	17	0.2	103	8	ARGENTIN IGUAZU	27	14	34	6	21	**	36	**
HANKOW	21	14	31	6	18	1.9	68	-64	FORMOSA	29	16	35	8	23	0.6	139	-17
CHUNGKING	22	15	32	12	18	**	100	**	CERES	28	13	34	3	20	1.2	131	51
CHIHKIANG	20	13	30	9	16	0.1	183	19	CORDOBA	27	13	33	4	20	2.5	64	11
WU HU	21	12	32	7	16	**	55	**	RIO CUARTO	26	13	33	2	19	2.6	51	3
SHANGHAI	19	12	31	7	16	**	70	**	ROSARIO	26	12	33	0	19	2.1	92	-20
NANCHANG	21	15	31	10	18	0.9	229	7	BUENOS AIRES	25	13	33	4	19	2.2	74	-8
TAIPEI	25	20	30	17	22	1.3	120	-48	SANTA ROSA	24	11	31	4	17	2.3	32	-19
CANTON	26	20	38	16	23	1.2	239	57	TRES ARROYOS	21	11	31	2	16	1.8	44	-43
NANNING	27	20	32	14	23	1.4	355	251	NEW CALE NOUMEA	27	21	32	18	24	0.1	99	-12
CANARY I LAS PALMAS	24	17	32	15	21	2.1	6	1	FIJI NAUSORI	28	23	31	21	25	0.2	381	-20
MOROCC CASABLANCA	22	15	32	12	19	2.8	61	23	SAMOA PAGO PAGO	32	26	34	24	29	1.8	150	-156
MARRAKECH	24	14	36	8	19	1.6	106	72	TAHITI PAPEETE	31	24	32	22	27	0.5	155	13
ALGERIA ALGER	22	9	29	2	16	0.8	84	3	AUSTRALI DARWIN	33	24	34	23	29	0.2	1	-80
BATNA	19	5	26	-3	12	0.1	47	19	BRISBANE	25	16	31	13	21	-1.2	10	-94
TUNISIA TUNIS	20	11	29	5	16	0.4	22	-17	PERTH	25	15	33	10	20	1.2	31	-16
NIGER NIAMEY	41	27	44	19	34	-0.1	2	-4	CEDUNA	24	10	32	5	17	-0.7	0	-20
MALI TIMBUKTU	39	24	43	16	31	0.0	0	-2	ADELAIDE	21	12	29	8	17	-0.3	5	-33
BAMAKO	38	25	40	21	32	-0.3	4	-16	MELBOURNE	20	9	30	3	14	-1.0	10	-39
MAURITAN NOUAKCHOTT	33	**	42	14	**	**	0	0	WAGGA	23	8	29	3	16	-0.4	1	-50
SENEGAL DAKAR	25	19	34	18	22	0.5	0	0	CANBERRA	22	5	25	0	14	0.1	1	-52
CHAGOS DIEGO GARCIA	**	27	32	26	**	**	147	-35	INDONESIA DJAKARTA	32	24	37	21	28	0.7	262	**
LIBYA TRIPOLI	23	12	33	8	17	-1.6	2	-16	PHILIPPI MANILA	34	26	36	21	30	0.8	26	1
BENGHAZI	20	11	33	7	16	-3.4	22	15									
EGYPT CAIRO	25	14	40	7	20	-1.9	0	-1									
ASWAN	34	18	43	13	26	-0.3	0	0									
ETHIOPIA ADDIS ABABA	**	**	27	9	**	**	**	**									
KENYA NAIROBI	25	15	27	11	20	-0.1	201	44									
TANZANIA DAR ES SALAAM	**	23	35	20	**	**	156	-117									
GABON LIBREVILLE	30	22	33	20	26	-1.2	335	-12									
TOGO LOME	32	25	34	23	29	0.6	40	-59									
BURKINA OUAGADOUGOU	37	26	41	21	32	-0.8	58	36									
COTE D'I ABIDJAN	31	25	36	22	28	0.1	388	242									
MOZAMBI MAPUTO	**	**	38	12	**	**	11	-44									

Based on Preliminary Reports



FSU-WESTERN

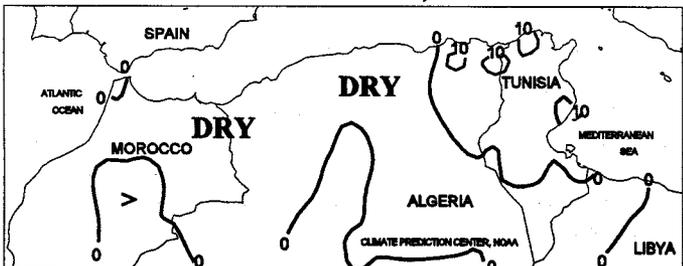
Generally dry weather prevailed from Ukraine northeastward into central Russia (Central Black Soils Region and Volga Valley). The dryness in these areas improved conditions for spring grain planting. Reports as of April 21 indicated the pace of spring grain planting in Russia was progressing ahead of last year but was running slightly behind the average. In Ukraine, the pace of spring grain sowing was running ahead of last year's greatly delayed pace, but lagged the average pace. Typically, corn and sunflower planting in Russia and Ukraine occurs in May. Winter grains were jointing in southern Ukraine and southern Russia (North Caucasus Region and lower Volga Valley) and were tillering over northern Ukraine, northern Russia, and Belarus. In most areas, moisture conditions were adequate for winter grain development and spring grain emergence. In cotton growing areas of Central Asia, locally heavy rain (50-70 mm) in Uzbekistan, Turkmenistan, and Tajikistan may have washed out newly planted cotton, necessitating replanting.



EUROPE

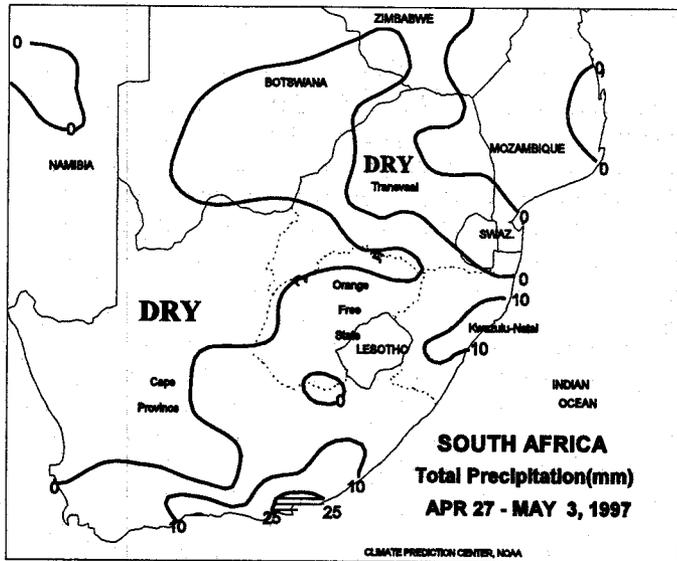
Light to moderate showers in England, the Benelux countries, France, Italy, and Hungary eased prolonged dryness, improving moisture conditions for winter grain development and newly emerging spring-sown crops. Precipitation amounts in these areas generally ranged from 4 to 25 mm, with timely soaking rain (25 to 70 mm) benefiting reproductive winter grains in Italy. Light rain (10-25 mm) in Germany maintained adequate moisture for winter grains in the jointing stage. In Spain, hot, dry weather hastened maturity in winter grains in the south. Highest weekly temperatures ranged from 30 to 35 degrees C in southern Spain. In southeastern Europe, drier weather improved conditions for spring grain planting in Romania and Bulgaria. Unseasonably cool, wet weather (10-33 mm) in Greece slowed cotton development. Weekly temperatures averaged 4 to 7 degrees C above normal in the Iberian Peninsula, 1 to 3 degrees C above normal in northern Europe, and 1 to 3 degrees C below normal in the southeast.

**NORTHWEST AFRICA Total Precipitation (mm)
APR 27 - MAY 3, 1997**



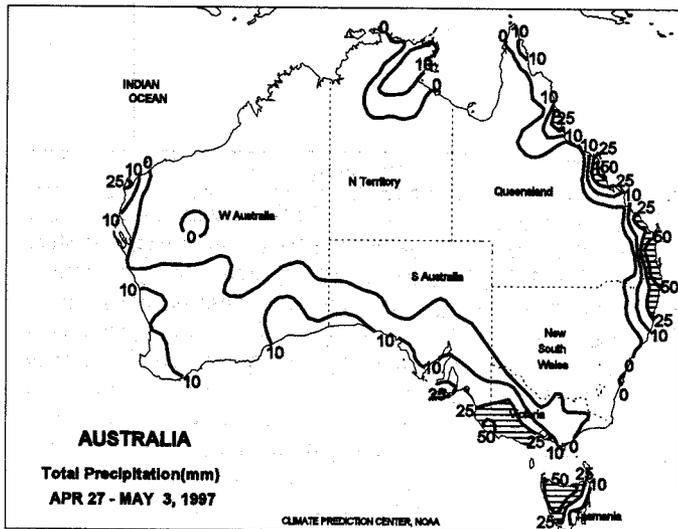
NORTHWESTERN AFRICA

Hot, dry weather prevailed over Morocco, hastening maturity in winter grains. Farther east, unusually warm, dry weather returned to drought-stressed winter grains in western and central Algeria. Light, scattered showers (around 10 mm) in eastern Algeria and Tunisia continued to stabilize conditions for winter grains in the filling stage. Weekly temperatures averaged 4 to 7 degrees C above normal in Morocco, where maximum temperatures on some days reached 35 degrees C. Elsewhere, weekly temperatures averaged 2 to 4 degrees C above normal in western Algeria and 1 to 3 degrees C below normal in eastern Algeria and northern Tunisia.



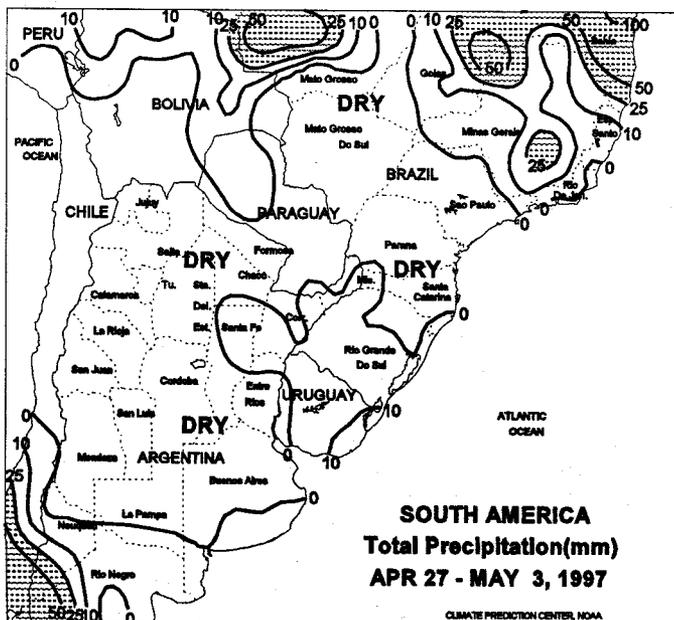
SOUTH AFRICA

Cool, dry weather covered the corn belt, aiding crop maturation and dry down. Sub-freezing temperatures ended the growing season in the main corn region of Orange Free State and surrounding areas. Harvest activities will increase over the next few weeks. Elsewhere, scattered, generally light showers along the coast (15 mm or less, in most locations) caused minor delays in the sugarcane harvest. Farther south, winter wheat planting progressed with few delays. More rain would be welcomed in Western Cape for germination and establishment. This is the final weekly summary of the season. Regular coverage will resume in October as corn planting commences.



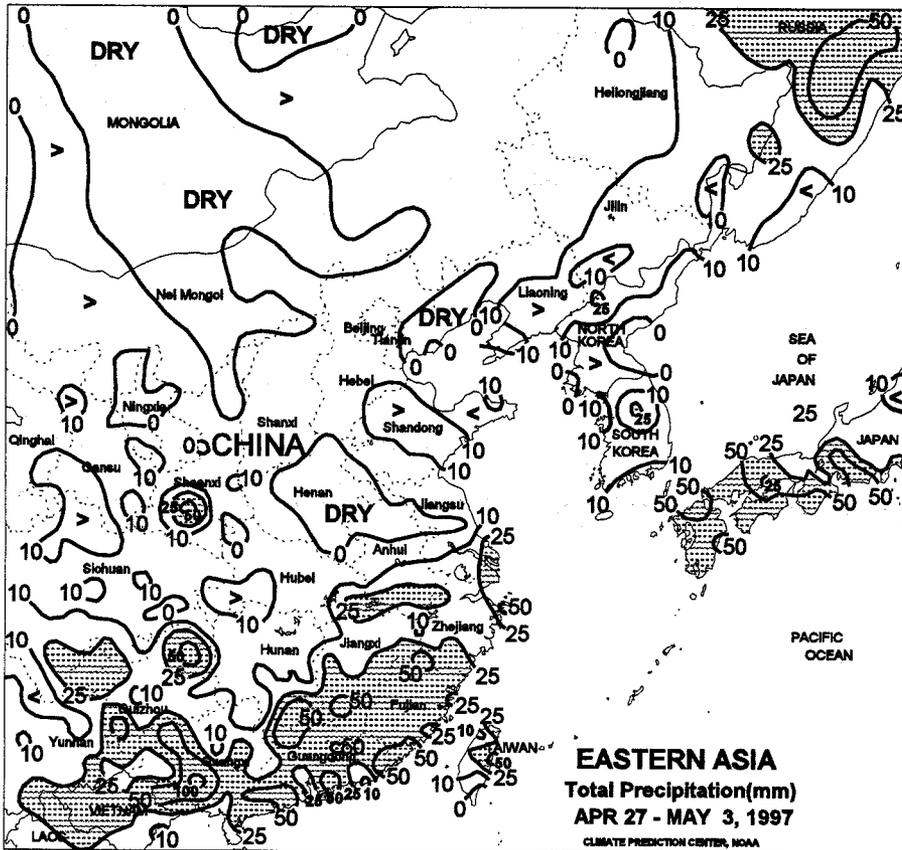
AUSTRALIA

Light to moderate showers (5-15 mm) fell in primary winter grain areas of the west and southeast, with a pocket of heavier rain (23-74 mm) centered over southwestern Victoria. The rain in the southeast was highly beneficial for planting preparations, although above-normal temperatures (3-7 degrees C above normal, highs ranging from 26-32 C) kept evaporation rates high. More rain will be needed in upcoming weeks throughout the east for winter grain establishment, although subsoil moisture reserves are higher in northeastern crop areas due to the unusual wetness of a few months ago. Pastures are also in need of moisture. Sorghum and cotton harvesting progressed, soon to be followed by barley and wheat planting. Mostly dry, cool weather covered the main pasture and grazing areas of New Zealand.



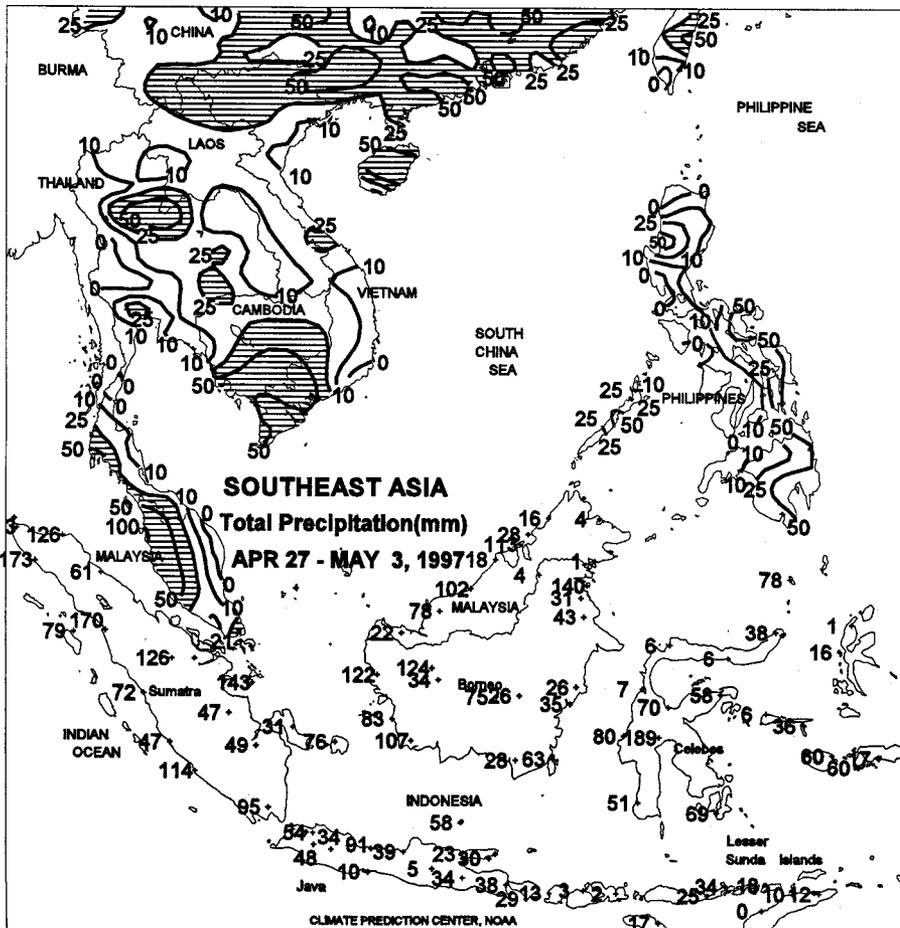
SOUTH AMERICA

Dry weather prevailed across Argentina and most of southern Brazil, favoring summer crop harvesting and early winter wheat planting in Brazil. Showers (10-50 mm) were confined to Minas Gerais, Goias, and Mato Grosso, Brazil. In Argentina, as of April 25, 60 percent of the corn crop was harvested, 45 percent of soybeans, 97 percent of sunflowers, 55 percent of sorghum, and 38 percent of cotton. Temperatures averaged 1 to 3 degrees C above normal across most of Argentina and southern Brazil, aiding maturing summer crops. On May 3 and 4, minimum temperatures ranged from -2 to 1 degrees C in portions of southern Buenos Aires, helping to drydown maturing summer crops.



EASTERN ASIA

Light to moderate rain (10-25 mm) fell across Shandong and southern Hebei, favoring vegetative to reproductive winter wheat. Drier weather (less than 5 mm) prevailed elsewhere in the North China Plain, where adequate irrigation supplies exist. In Manchuria, only light rain (less than 10 mm) was reported, where more rain is needed for spring wheat germination. Across central and southern China, the persistent rainy, cloudy weather was broken by several warm, dry days that benefited early rice development. However, moderate rainfall of 20 to 40 mm still occurred across the region. Temperatures averaged 2 to 4 degrees C above normal across most of eastern China.



SOUTHEAST ASIA

In the Philippines, below-normal rainfall and warm weather (1-2 degrees C above normal) continued to reduce moisture supplies for main-season rice in the western and central islands. Moderate showers (15-50 mm) prevailed across the eastern islands and across Mindanao, favoring main-season grains. Moderate showers (20-50 mm) covered Java, slowing main-season rice harvesting but increasing moisture supplies for upcoming second-season rice planting (in June). Scattered showers (10-40 mm) prevailed across Thailand, increasing moisture supplies for main-season rice planting. Widespread showers (20-60 mm) favored rainfed rice across northern and southern Vietnam.

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