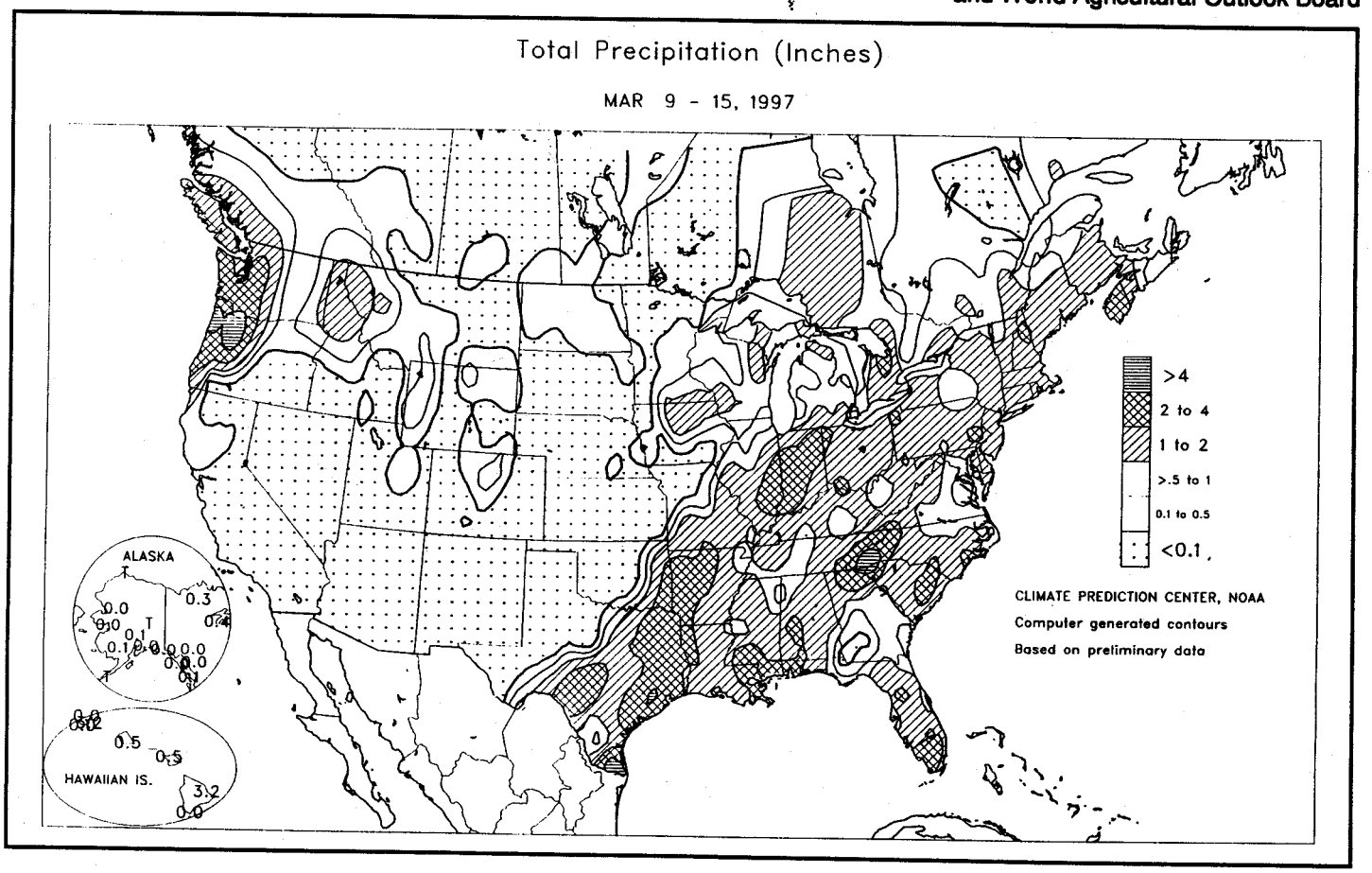
Volume 84, No. 11 March 18, 1997

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



HIGHLIGHTS

March 9 - 15, 1997

The **Ohio River** crest progressed slowly downstream, reaching the **Mississippi River** by week's end. Storm systems traversed the **Ohio Valley** on March 9 and 13, saturating soils with another 1 to 3 inches of rain. The latter system also produced unwelcomed heavy snow across the **North Central States**, where serious spring flooding is anticipated. The late-week storm also dumped locally heavy rainfall in the **Southeast**, hindering fieldwork and planting. However, beneficial rain dampened **Peninsular Florida**. In contrast, warm, dry weather prevailed on the **central and southern Plains** for much of the week, reducing topsoil

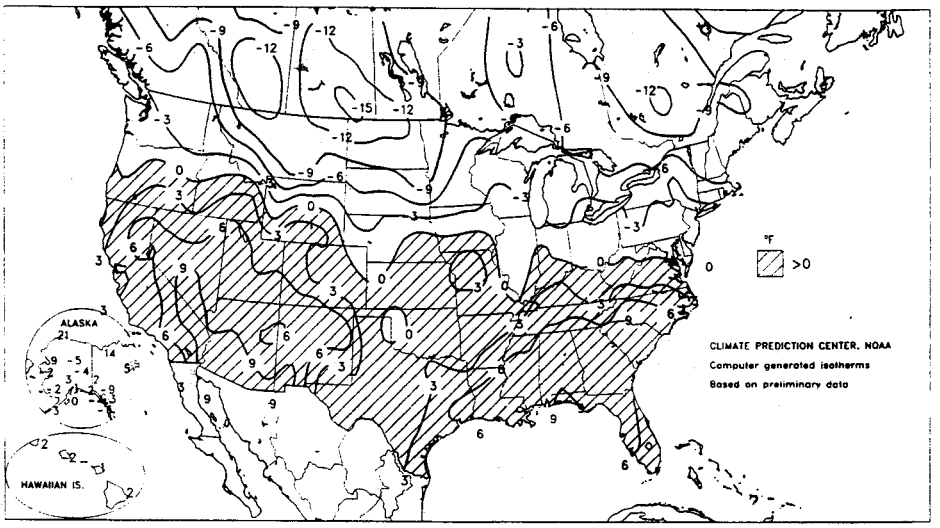
(Continued on page 2)

Contents

Temperature Departure & Extreme Minimum Temperature Maps 2
Ohio R. Flood Highlights, Snowfall Records & North Central States' Flood Outlook 3
National Weather Data for Selected Cities, March 2-8, 1997 4
National Weather Data for Selected Cities, March 9-15, 1997 7
National Agricultural Summary & **Soil Temperature Map** 10
International Weather and Crop Summary & **February Temperature/Precipitation Maps** .. 11
Subscription Information & Snow Cover Map ... 24

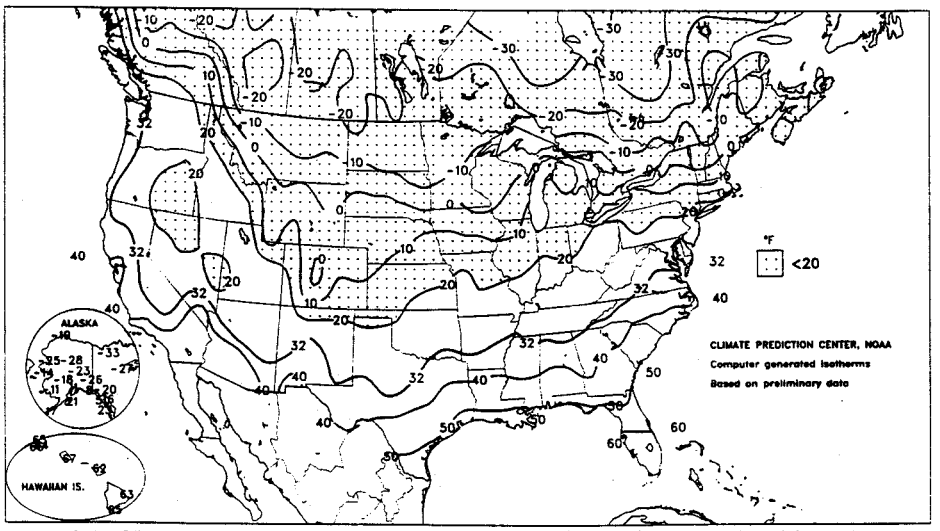
Departure of Average Temperature from Normal (°F)

MAR 9 - 15, 1997



Extreme Minimum Temperature (°F)

MAR 9 - 15, 1997



(Continued from front cover)

moisture for winter wheat growth. Temperatures averaged above normal throughout the **southern half of the Nation**, with departures ranging from +6 to +10 in the **Southwest** and **Southeast**. Abnormally cold weather continued across the **northern Plains**, where temperatures ranged from 5 to 12°F below normal.

Early in the week, a high-pressure system crossed **New England**, while Pacific-origin air overspread much of the Nation in the wake of a cold front. On Sunday, **Montpelier, VT** (-12°F) notched a daily-record low. A day later, warmth spread quickly eastward from the **West Coast**. In **California**, daily records on March 10 included 90°F in **Lompoc** and 85°F in **San Diego**. The early-week cold front stalled before reaching **Florida**, allowing for an extended period of warmth. From March 10-12, **Ft. Myers** posted three consecutive daily-record highs (90, 88, and 90°F).

At midweek, high pressure again overspread the **North**, while a major storm system evolved over the Nation's mid-section. As early as Tuesday, heavy rain developed across **southern Texas**, where **Victoria** collected 4.15 inches, a daily-record total. Storm-total rainfall reached 9.33 inches in **Port Isabel, TX**. A day later, warmth surged into the **central Plains**, resulting in daily-record highs in locations such as **Hill City, KS** (82°F) and **Pueblo, CO** (78°F).

Heavy snow spread into the **Pacific Northwest** at midweek, reaching the **northern Plains** and **Great Lakes States** a day later. In **northern Idaho, Bonners Ferry** received a March-record, 24-hour snowfall (14.5 inches) on Wednesday. On March 13-14, snowfall totaled 28.0 inches in **Marquette, MI**--an all-time, 24-hour record--leaving their snow depth at an unprecedented 63 inches. The storm also produced an all-time-record, 24-hour snowfall in **Alpena, MI** (19.3 inches on March 14-15), boosting their seasonal total to an unmatched 176.1 inches. In **Wisconsin**, March-record, 24-hour totals were measured in **Green Bay** (14.5 inches) and **LaCrosse** (14.3 inches). In **North Dakota**, storm-total snowfall reached 8.2 inches in **Bismarck** and 7.0 inches in **Fargo**. The latter total further padded **Fargo**'s record seasonal total to 106.6 inches.

Farther east and south, precipitation on March 14 reached daily-record proportions in **Buffalo, NY** (1.21 inches) and **Orlando, FL** (1.23 inches). In the **Northeast**, the storm boosted weekly snowfall to 11.2 inches in **Syracuse, NY** and 9.0 inches in **Worcester, MA**. Storm-total rainfall surpassed 3 inches in **Mobile, AL**, and approached 2 inches in locations such as **Peru, IN, Detroit, MI**, and **McComb, MS**. In **Cincinnati, OH**, the **Ohio River** fell below flood stage on March 11 for the first time in 9 days. Downstream, the **Ohio River** crest ranked among the top 10 floods at all gauging stations. The crest passed **Mt. Vernon, IN** on March 11, shortly after producing the fourth-highest level (about 12.5 feet above flood stage) at **Newburgh, IN**. Water levels remained nearly steady for several days late in the week along the **lower Ohio River**, where the crest at **Grand Chain, IL** (about 15.9 feet above flood stage on March 14) was second only to the Great Flood of 1937. By week's end, cold air cloaked most areas east of the **Rockies**. On Friday, **Billings, MT** (-8°F) logged a daily-record low. Lows dipped into the 10's well into **Kansas**. Highs on Saturday failed to crack the 20-degree mark as far south as **Dubuque, IA** (18°F, 24° below normal).

Seasonal Snowfall Records, 1996-97

(Updated through Mar. 16, 1997)

State	Location	Total (Inches)	Date Broken	Former Record/Year
ND	Fargo	106.6	March 3	89.1 in 1993-94
MI	Alpena	176.1	March 14	166.3 in 1970-71
MN	Rochester	78.1	March 14	77.5 in 1950-51

Selected Ohio River Flood Highlights

State	Location	Feet Above Flood Stage/Crest Date	Historical Rank	Highest Since
WV	Huntington	+7.5 feet on March 5	7th	March 1955
OH	Cincinnati	+12.7 feet on March 6	9th	March 1964
KY	Louisville	~ +15.7 feet on March 7	n/a	March 1964
IN	Newburgh	~ +12.5 feet on March 10	4th	n/a
IL	Grand Chain	~ +15.8 feet on March 13	2nd	1937

Away from the Ohio River, the worst flooding occurred in Kentucky, where February 26 - March 5 rainfall topped 1 foot in some areas. On March 1, 10.48 inches pelted Louisville, KY. Record crests were established along several Ohio River tributaries, including Rolling Fork and Licking River. At Boston, KY, Rolling Fork crested at an estimated 18.2 feet above flood stage on March 4, 0.6 feet above the February 1989 record. The Licking River at Falmouth, KY surged to an estimated 24 feet above flood stage, shattering the March 1964 record by nearly 5 feet.

By March 17, runoff and floodwaters from the Ohio River allowed for a broad crest on the Mississippi River. Gauging points from the Ohio-Mississippi confluence to south of Memphis, TN were near peak levels. Apparent crests ranged from 4.2 feet above flood stage at Helena, AR to 10.1 feet above flood stage at Caruthersville, MO. The water level at Memphis was 6.5 feet above flood stage. Farther downstream, the Mississippi River at Baton Rouge, LA rose 5.5 feet above flood stage on March 17, a half-foot above the level on June 18, 1995, the decade's highest. The crest is expected to reach Baton Rouge about March 27.

Record Flooding Anticipated in the North Central States (Mar. 14 Update)

Record flooding is expected at a few gauging sites in the Red, James, and Missouri River basins this spring, based solely upon the melting of existing snowpack, including:

River	Location	Snowmelt Level	Record Stage and Date
Turtle Creek	Redfield, SD	10.0 feet a.f.s.	8.9 feet on April 7, 1969
James River	Huron, SD	8.0 feet	5.9 feet on May 19, 1995
	Forestburg, SD	6.0 feet	5.3 feet on April 22, 1995
Sheyenne River	Harwood, ND	8.0 feet	6.7 feet on April 13, 1996
Missouri River	S. Sioux City, NE	1.0 foot	0.8 feet on June 25, 1984
Floyd River	Sheldon, IA	2.0 feet	1.0 foot on March 28, 1962

Note: In the tables, "a.f.s." represents "above flood stage." Record stages are listed in terms of feet a.f.s.

Many more locations in the North Central States will endure unprecedented water levels if precipitation during the next few weeks equals or exceeds normal. The potential flood levels in the following table were calculated based upon runoff from existing snowpack and normal precipitation during the melt period:

River	Location	Potential Level	Record Stage and Date
Red River	Wahpeton, ND	8.5 feet a.f.s.	8.0 feet on April 5, 1989
	Fargo, ND	20.5 feet	20.3 feet on April 15, 1969
	Halstad, MN	15.5 feet	15.0 feet on April 22, 1979
	E. Grand Forks, MN	21.0 feet	20.8 feet on April 26, 1979
	Oslo, MN	11.0 feet	10.6 feet on April 26, 1979
	Drayton, ND	12.0 feet	11.7 feet on April 28, 1979
	Pembina, ND	12.0 feet	11.8 feet on May 1, 1979
	Emerson, Manitoba	9.7 feet	9.7 feet on May 1, 1979
Sheyenne River	Fargo, ND	6.0 feet	5.0 feet on July 26, 1993
	Harwood, ND	10.0 feet	6.7 feet on April 13, 1996
Two Rivers	Hallock, MN	8.0 feet	7.5 feet on April 23, 1996
Turtle Creek	Redfield, SD	11.0 feet	8.9 feet on April 7, 1969
James River	Huron, SD	8.5 feet	5.9 feet on May 19, 1995
	Forestburg, SD	7.0 feet	5.3 feet on April 22, 1995
	Mitchell, SD	7.0 feet	6.4 feet on April 23, 1995
	Scotland, SD	8.0 feet	7.5 feet on June 23, 1984
	Ashton, SD	10.5 feet	9.4 feet on May 18, 1995
Missouri River	S. Sioux City, NE	2.5 feet	0.8 feet on June 25, 1984
Floyd River	Sheldon, IA	2.5 feet	1.0 foot on March 28, 1962
Chocolay River	Harvey, MI	4.5 feet	4.5 feet on April 20, 1985

The National Weather Service will issue its next spring flood outlook on March 28.

National Weather Data for Selected Cities

Weather Data for the Week Ending March 8, 1997

STATES AND STATIONS		TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																	TEMP, °F		PRECIP.	
		AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Mar 1	PCT. NORMAL SINCE Mar 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.05 INCH OR MORE
AL	BIRMINGHAM	69	45	80	33	57	6	1.72	0.35	0.59	1.72	110	12.84	113	96	78	0	0	3	3
	MOBILE	74	53	79	43	63	6	0.15	-1.33	0.14	0.15	9	10.70	90	90	46	0	0	2	0
	MONTGOMERY	75	49	84	35	62	9	0.28	-1.15	0.26	0.28	17	13.23	111	82	37	0	0	2	0
AK	ANCHORAGE	28	24	35	10	26	3	0.08	-0.09	0.01	0.08	42	0.71	41	73	57	0	6	2	0
	BARROW	-9	-22	-4	-29	-16	2	0.00	-0.03	0.00	0.00	0	0.08	31	76	72	0	7	0	0
	FAIRBANKS	19	-11	24	-28	4	-1	0.01	-0.07	0.01	0.01	11	0.60	60	78	41	0	7	1	0
	JUNEAU	31	24	37	12	27	-4	–	–	–	–	–	–	–	–	–	0	7	-	-
	KODIAK	37	26	40	21	32	0	0.39	-0.70	0.22	0.39	31	17.30	124	81	61	0	6	3	0
	NOME	13	-1	26	-13	6	0	0.15	0.04	0.13	0.15	115	2.04	134	73	60	0	7	2	0
AZ	PHOENIX	76	48	82	42	62	2	0.00	-0.22	0.00	0.00	0	1.46	91	63	13	0	0	0	0
	PRESCOTT	59	23	68	16	41	0	0.00	-0.44	0.00	0.00	0	3.06	86	92	28	0	7	0	0
	TUCSON	76	44	81	35	60	3	0.00	-0.17	0.00	0.00	0	1.61	93	60	13	0	0	0	0
	YUMA	75	49	85	43	62	-1	0.00	-0.06	0.00	0.00	0	0.47	75	52	13	0	0	0	0
AR	FORT SMITH	64	38	79	30	51	3	0.63	-0.20	0.59	1.28	136	8.33	153	91	46	0	1	2	1
	LITTLE ROCK	64	41	79	35	53	3	3.98	2.96	2.28	5.15	429	12.42	156	96	80	0	0	-	-
CA	BAKERSFIELD	65	40	73	35	52	-4	0.00	-0.25	0.00	0.00	0	2.78	126	82	13	0	0	0	0
	EUREKA	53	39	57	31	46	-3	0.98	-0.27	0.56	1.77	124	13.15	108	89	31	0	1	4	1
	FRESNO	65	40	71	36	53	-1	0.00	-0.44	0.00	0.00	0	3.39	80	86	13	0	0	0	0
	LOS ANGELES	66	48	80	45	57	-1	0.00	-0.52	0.00	0.00	0	4.21	77	–	–	0	0	0	0
	REDDING	63	37	72	28	50	-2	0.68	-0.39	0.26	0.68	55	10.39	89	–	–	0	1	4	0
	SACRAMENTO	65	40	72	34	52	0	0.06	-0.57	0.06	0.06	8	8.00	113	–	–	0	0	1	0
	SAN DIEGO	66	49	75	46	58	-1	0.00	-0.41	0.00	0.00	0	3.27	85	76	36	0	0	0	0
	SAN FRANCISCO	59	45	63	40	52	-1	0.11	-0.63	0.06	0.11	13	7.91	94	89	50	0	0	2	0
CO	DENVER	51	24	62	8	38	1	0.02	-0.22	0.02	0.02	7	0.69	52	–	–	0	6	1	0
	GRAND JUNCTION	49	22	63	19	36	-4	0.06	-0.13	0.06	0.06	29	0.77	61	81	32	0	7	1	0
	PUEBLO	59	16	72	2	38	-1	0.23	0.08	0.11	0.23	135	0.82	104	80	24	0	7	2	0
CT	BRIDGEPORT	45	32	59	27	38	3	0.52	-0.29	0.22	0.52	57	5.62	78	99	44	0	4	5	0
	HARTFORD	44	29	59	20	36	3	0.65	-0.14	0.28	0.65	72	5.22	69	86	53	0	5	6	0
DC	WASHINGTON	56	41	70	33	48	5	1.11	0.39	1.02	1.81	223	6.81	109	87	54	0	0	3	1
FL	PANAMA CITY	74	57	79	46	66	9	–	–	–	–	–	–	–	–	–	0	0	-	-
	DAYTONA BEACH	81	59	86	47	70	8	0.01	-0.69	0.01	0.01	1	2.50	37	100	55	0	0	1	0
	JACKSONVILLE	79	56	87	38	67	7	0.00	-0.89	0.00	0.00	0	4.17	52	93	46	0	0	0	0
	KEY WEST	82	74	84	71	78	6	0.59	0.19	0.59	0.59	128	4.92	115	86	69	0	0	1	1
	MIAMI	82	71	86	70	76	6	0.13	-0.39	0.13	0.13	22	3.36	72	87	62	0	0	1	0
	ORLANDO	84	60	88	51	72	7	0.00	-0.80	0.00	0.00	0	3.50	56	96	49	0	0	0	0
	TALLAHASSEE	77	53	84	33	65	7	0.04	-1.44	0.02	0.04	2	9.45	78	96	52	0	0	3	0
	TAMPA	83	65	85	52	74	9	0.00	-0.78	0.00	0.00	0	1.81	27	89	62	0	0	0	0
	WEST PALM BEACH	81	70	86	67	75	6	0.43	-0.26	0.43	0.43	54	9.13	148	86	58	0	0	1	0
GA	ATLANTA	72	49	80	37	60	10	0.34	-0.97	0.29	0.34	23	12.98	117	77	32	0	0	2	0
	AUGUSTA	77	45	86	31	61	8	0.04	-1.06	0.04	0.04	3	8.54	89	90	36	0	1	1	0
	MACON	75	48	86	38	61	7	0.07	-1.06	0.05	0.07	5	10.54	100	90	38	0	0	2	0
	SAVANNAH	77	54	85	35	65	9	0.30	-0.55	0.30	0.30	31	5.69	73	94	39	0	0	1	0
HI	HILO	79	66	83	64	72	1	5.76	2.90	1.73	6.25	192	16.42	70	94	69	0	0	7	5
	HONOLULU	82	70	85	68	76	2	0.25	-0.27	–	0.26	43	8.13	128	81	56	0	0	-	-
	KAHULUI	82	69	85	67	76	3	–	–	–	–	–	–	–	84	57	0	0	-	-
	LIHUE	80	71	80	69	76	3	–	–	–	–	–	–	–	84	68	0	0	-	-
ID	BOISE	47	31	56	23	39	-1	0.13	-0.15	0.04	0.15	48	3.02	107	81	35	0	4	5	0
	LEWISTON	49	35	56	31	42	0	0.19	-0.04	0.11	0.19	73	3.82	156	–	–	0	3	4	0
	POCATELLO	40	24	49	18	32	-1	0.25	-0.02	0.08	0.25	81	2.22	98	85	46	0	7	5	0
IL	CHICAGO	41	27	49	19	34	1	0.00	-0.49	0.00	0.12	21	5.91	171	84	64	0	6	0	0
	MOLINE	43	25	58	22	34	2	–	–	–	–	–	–	–	85	61	0	7	-	-
	PEORIA	45	27	58	22	36	2	0.00	-0.54	0.00	0.11	18	6.37	179	83	49	0	7	0	0
	QUINCY	47	28	61	26	37	1	–	–	–	–	–	–	–	88	47	0	7	-	-
	ROCKFORD	38	25	45	19	31	1	0.00	-0.44	0.00	0.08	16	4.04	138	–	–	0	7	0	0
	SPRINGFIELD	49	29	60	24	39	3	0.13	-0.50	0.01	0.34	47	4.43	110	85	56	0	5	2	0
IN	EVANSVILLE	55	35	63	26	45	3	0.67	-0.35	0.64	2.59	225	9.57	138	90	62	0	2	4	1
	FORT WAYNE	44	28	53	20	36	3	0.20	-0.38	0.20	0.23	35	5.98	135	89	67	0	7	1	0
	INDIANAPOLIS	48	32	54	22	40	3	0.44	-0.35	0.41	0.80	89	8.20	145	88	62	0	2	2	0
	SOUTH BEND	42	26	52	17	34	1	0.09	-0.51	0.02	0.11	16	4.92	102	82	63	0	7	1	0
IA	DES MOINES	45	22	62	16	33	1	0.03	-0.35	0.03	0.04	9	0.96	40	84	47	0	7	1	0
	SIOUX CITY	39	18	57	8	29	-2	0.23	-0.14	0.23	0.23	56	1.17	70	84	56	0	7	1	0
	WATERLOO	37	20	50	13	29	0	0.00	-0.42	0.00	0.00	0	1.74	74	–	–	0	7	0	0
KS	CONCORDIA	56	27	71	20	42	4	0.02	-0.41	0.02	0.02	4	1.56	87	77	33	0	6	1	0
	DODGE CITY	57	27	70	19	42	2	0.00	-0.29	0.00	0.00	0	1.22	85	73	29	0	6	0	0
	GOODLAND	53	23	73	20	38	2	0.00	-0.23	0.00	0.00	0	0.63	61	82	34	0	7	0	0
	TOPEKA	56	27	70	22	41	2	0.00	-0.46	0.00	0.12	23	2.99	119	83	35	0	6	0	0
	WICHITA	56	30	67	25	43	1	0.00	-0.51	0.00	0.09	16	2.61	102	80	36	0	5	0	0
KY	BOWLING GREEN	58	40	68	28	49	5	–	–	–	–	–	–	–	100	86	0	2	-	-
	LEXINGTON	53	36	63	26	45	3	2.60	1.64	0.98	8.52	782	16.52	231	83	58	0	2	4	3
	LOUISVILLE	56	39	67	31	48	5	0.93	-0.07	0.69	8.23	722	16.89	231	87	58	0	2	3	1
LA	BATON ROUGE	74	47	81	39	60	2	0.33	-0.78	0.33	0.33	26	13.96	119	100	74	0	0	1	0
	LAKE CHARLES	73	49	81	43	61	3	0.06	-0.71	0.04	0.06	7	13.33	148	91	59	0	0	2	0
	NEW ORLEANS	72	53	81	48	63	4	0.13	-1.06	0.10	0.13	9	12.69	102	84	48	0	0	3	0
	SHREVEPORT	70	45	79	39	58	4	3.30	2.36	2.51	3.53	330	16.09	170	90	51	0	0	3	2

Based on 1961-90 normals

Weather Data for the Week Ending March 8, 1997

STATES AND STATIONS		TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																	TEMP, °F		PRECIP.	
		AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Mar 1	PCT. NORMAL SINCE Mar 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.05 INCH OR MORE
ME	CARIBOU	25	6	46	-13	15	-4	1.26	0.74	1.06	1.29	219	7.12	144	85	60	0	7	2	1
	PORTLAND	38	25	55	16	32	3	0.84	0.05	0.54	0.91	101	5.94	76	82	53	0	6	4	1
MD	BALTIMORE	53	37	68	27	45	4	–	–	–	–	–	–	–	99	66	0	2	-	-
	SALISBURY	54	38	72	27	46	4	–	–	–	–	–	–	–	100	59	0	2	-	-
MA	BOSTON	43	32	58	25	38	2	0.67	-0.16	0.31	0.67	71	4.18	51	89	47	0	3	5	0
	WORCESTER	38	27	52	18	32	2	0.81	-0.06	0.32	0.81	82	5.87	72	100	54	0	7	6	0
MI	ALPENA	32	18	40	5	25	1	0.44	0.01	0.21	0.57	119	6.71	197	88	55	0	7	5	0
	DETROIT	41	27	54	17	34	2	0.18	-0.33	0.15	0.31	53	5.94	146	85	59	0	5	3	0
	FLINT	38	24	50	14	31	1	0.10	-0.31	0.08	0.13	28	5.09	163	89	65	0	7	3	0
	GRAND RAPIDS	37	24	40	13	30	0	0.05	-0.45	0.03	0.28	50	7.01	184	89	65	0	7	2	0
	HOUGHTON LAKE	33	18	39	-2	25	1	0.28	-0.12	0.15	0.35	76	4.62	148	89	62	0	7	4	0
	LANSING	38	23	46	9	30	2	0.12	-0.29	0.09	0.19	40	5.26	167	–	–	0	7	2	0
	MARQUETTE	28	8	34	-9	18	-1	0.22	-0.35	0.08	0.36	55	7.96	174	89	63	0	7	5	0
	MUSKEGON	36	24	38	15	30	0	0.02	-0.47	0.02	0.14	25	5.42	123	86	60	0	7	1	0
	SAULT ST. MARIE	–	–	–	–	–	–	–	–	–	–	–	–	–	90	58	-	-	-	-
MN	ALEXANDRIA	22	-1	30	-17	10	-11	–	–	–	–	–	–	–	91	62	0	7	-	-
	DULUTH	25	10	32	-7	17	-2	0.10	-0.26	0.08	0.24	59	1.74	72	84	54	0	7	2	0
	INT'L FALLS	22	-8	30	-23	7	-9	–	–	–	–	–	–	–	86	50	0	7	-	-
	MINNEAPOLIS	29	10	41	1	20	-6	0.39	0.02	0.22	0.50	122	2.31	103	86	58	0	7	2	0
	ROCHESTER	27	13	38	5	20	-5	0.01	-0.30	0.01	0.05	14	2.49	133	84	71	0	7	1	0
MS	GREENWOOD	70	46	80	36	58	5	–	–	–	–	–	–	–	100	76	0	0	-	-
	JACKSON	72	44	82	36	58	6	0.57	-0.73	0.34	0.57	39	11.75	100	87	43	0	0	2	0
	MERIDIAN	74	45	83	33	60	6	0.91	-0.59	0.68	0.91	52	11.49	93	95	45	0	0	2	1
MO	CAPE GIRARDEAU	57	36	65	28	46	3	0.11	-0.96	0.11	2.58	211	10.21	137	93	63	0	2	1	0
	COLUMBIA	51	29	64	26	40	2	0.00	-0.61	0.00	0.12	17	7.24	182	83	42	0	6	0	0
	KANSAS CITY	52	27	68	21	40	1	0.05	-0.43	0.05	0.07	13	3.38	123	80	38	0	7	1	0
	SAINT LOUIS	54	34	64	30	44	3	0.03	-0.71	0.02	0.15	18	6.92	145	85	48	0	4	2	0
	SPRINGFIELD	56	30	67	25	43	1	0.24	-0.52	0.13	0.47	54	5.59	123	87	48	0	5	2	0
MT	BILLINGS	41	24	55	14	32	0	0.20	-0.01	0.11	0.20	83	1.17	65	79	51	0	6	2	0
	GLASGOW	24	8	37	-7	16	-8	0.00	-0.08	0.00	0.00	0	0.35	49	87	62	0	7	0	0
	GREAT FALLS	36	16	51	4	26	-4	0.14	-0.07	0.11	0.14	58	0.57	33	85	52	0	6	2	0
	HAVRE	36	17	53	4	26	-1	0.00	-0.13	0.00	0.00	0	0.20	19	88	55	0	7	0	0
	HELENA	43	24	54	17	34	3	0.03	-0.11	0.03	0.03	19	0.39	33	85	36	0	7	1	0
	KALISPELL	37	23	42	11	30	-1	0.28	0.06	0.10	0.39	150	3.43	119	92	68	0	7	6	0
	MILES CITY	39	19	54	1	29	0	0.00	-0.11	0.00	0.00	0	0.30	27	79	40	0	7	0	0
	MISSOULA	40	27	45	21	33	0	0.22	0.00	0.18	0.22	88	2.67	116	86	55	0	6	3	0
NE	GRAND ISLAND	50	22	70	13	36	2	0.00	-0.35	0.00	0.02	5	1.08	67	82	38	0	7	0	0
	LINCOLN	50	21	70	12	35	1	0.00	-0.38	0.00	0.00	0	0.93	55	–	–	0	7	0	0
	NORFOLK	45	18	66	8	32	0	0.50	0.15	0.50	0.52	130	1.50	89	80	45	0	7	1	1
	NORTH PLATTE	52	19	68	12	36	3	0.00	-0.21	0.00	0.00	0	0.67	64	81	27	0	7	0	0
	OMAHA	48	22	65	13	35	1	0.00	-0.38	0.00	0.00	0	1.16	60	86	41	0	6	0	0
	SCOTTSBLUFF	51	18	63	10	35	1	0.00	-0.20	0.00	0.00	0	0.62	53	–	–	0	7	0	0
	VALENTINE	47	17	65	9	32	2	0.00	-0.19	0.00	0.00	0	0.51	57	–	–	0	7	0	0
NV	ELY	45	19	53	7	32	-1	0.00	-0.19	0.00	0.00	0	1.89	117	73	32	0	7	0	0
	LAS VEGAS	67	39	76	36	53	-1	0.00	-0.11	0.00	0.00	0	0.20	19	35	10	0	0	0	0
	RENO	55	25	65	15	40	-1	0.00	-0.19	0.00	0.00	0	4.02	174	75	27	0	6	0	0
	WINNEMUCCA	50	20	57	10	35	-3	0.00	-0.17	0.00	0.00	0	1.65	106	79	27	0	7	0	0
NH	CONCORD	39	25	57	14	32	4	0.49	-0.12	0.24	0.50	72	5.94	103	95	29	0	6	4	0
NJ	ATLANTIC CITY	52	33	72	24	43	4	1.43	0.65	1.28	1.99	224	8.29	112	86	48	0	3	3	1
NM	ALBUQUERQUE	61	30	68	23	46	2	0.00	-0.11	0.00	0.00	0	0.67	63	44	11	0	4	0	0
	CLOVIS	–	–	–	–	–	–	–	–	–	–	–	–	–	75	33	-	-	-	-
	ROSWELL	65	32	79	25	49	-1	–	–	–	–	–	–	–	–	–	0	4	-	-
NY	ALBANY	39	26	52	18	33	3	0.74	0.11	0.42	0.74	104	3.10	58	87	59	0	6	4	0
	BINGHAMTON	38	25	52	14	31	3	1.21	0.61	0.52	1.22	179	4.09	76	93	62	0	7	6	1
	BUFFALO	37	25	57	18	31	1	1.20	0.62	0.56	1.28	191	8.47	149	92	66	0	7	6	1
	NEW YORK	47	35	61	31	41	3	0.65	-0.11	0.39	0.81	93	7.19	106	84	54	0	2	5	0
	ROCHESTER	38	26	58	20	32	2	1.08	0.58	0.42	1.08	189	5.61	118	92	56	0	7	5	0
	SYRACUSE	40	27	56	20	34	4	0.80	0.23	0.46	0.81	125	4.24	82	85	57	0	5	6	0
NC	ASHEVILLE	66	42	75	34	54	9	1.01	-0.29	0.41	1.17	79	10.82	110	96	69	0	0	3	0
	CHARLOTTE	70	45	81	33	57	10	0.93	-0.12	0.44	0.95	80	8.31	95	88	42	0	0	3	0
	GREENSBORO	63	41	73	32	52	7	1.38	0.53	0.85	1.53	156	7.31	98	82	50	0	1	3	1
	HATTERAS	64	50	71	41	57	8	0.08	-0.91	0.08	0.08	7	7.57	72	85	57	0	0	1	0
	NEW BERN	72	49	84	39	61	10	0.08	-0.86	0.08	0.35	33	7.55	78	87	46	0	0	1	0
	RALEIGH	65	42	77	29	54	6	0.60	-0.31	0.28	0.60	58	6.55	80	87	52	0	1	4	0
	WILMINGTON	72	50	82	35	61	11	0.02	-1.03	0.02	0.02	2	6.87	67	93	56	0	0	1	0
ND	BISMARCK	24	2	46	-7	13	-10	0.02	-0.10	0.02	0.02	14	1.44	138	81	60	0	7	1	0
	FARGO	21	-5	34	-22	8	-12	0.36	0.18	0.31	0.36	180	0.99	73	84	61	0	7	4	0
	GRAND FORKS	19	-2	28	-13	8	-10	0.04	-0.13	0.02	0.18	90	1.07	77	83	58	0	7	2	0
	WILLISTON	21	-1	38	-16	10	-14	0.32	0.20	0.32	0.32	246	0.76	68	86	62	0	7	1	0
OH	AKRON-CANTON	43	27	58	14	35	1	0.33	-0.37	0.12	0.64	80	3.63	70	94	62	0	6	4	0
	CINCINNATI	51	33	61	21	42	3	0.53	-0.37	0.35	2.46	241	6.98	111	87	58	0	2	3	0
	CLEVELAND	44	29	59	17	37	3	0.70	0.09	0.50	1.22	174	5.91	120	87	61	0	5	3	1
	COLUMBUS	48	32	61	22	40	4	0.40	-0.29	0.16	1.40	177	5.02	98	86	60	0	3	3	0
	DAYTON	47	30	57	20	39	2	0.23	-0.48	0.13	1.31	164	5.40	106	92	64	0	4	2	0

Based on 1961-90 normals

Weather Data for the Week Ending March 8, 1997

STATES AND STATIONS		TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																	TEMP, °F		PRECIP.	
		AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Mar 1	PCT. NORMAL SINCE Mar 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.05 INCH OR MORE
	TOLEDO	42	27	55	17	35	3	0.31	-0.23	0.31	0.34	56	6.96	171	88	65	0	7	1	0
	YOUNGSTOWN	42	27	58	19	35	3	0.81	0.16	0.58	0.98	132	2.36	48	92	62	0	7	3	1
OK	OKLAHOMA CITY	57	36	65	28	47	0	0.00	-0.57	0.00	0.00	0	2.61	78	78	41	0	3	0	0
	TULSA	61	35	70	30	48	2	0.11	-0.59	0.09	0.16	20	3.82	89	79	38	0	3	2	0
OR	ASTORIA	49	37	51	31	43	-2	2.54	0.84	0.96	4.51	232	20.67	106	92	63	0	1	7	1
	BURNS	44	23	51	15	34	0	0.05	-0.17	0.05	0.05	21	2.87	144	–	–	0	7	1	0
	MEDFORD	54	35	62	28	45	-1	0.16	-0.28	0.11	0.53	106	5.06	99	–	–	0	3	3	0
	PENDLETON	50	34	55	31	42	-1	0.01	-0.26	0.01	0.30	97	1.72	58	76	42	0	4	1	0
	PORTLAND	48	38	52	33	43	-3	1.20	0.35	0.30	2.21	226	11.00	108	92	58	0	0	6	0
	SALEM	48	37	52	29	43	-2	1.53	0.51	0.55	2.78	238	13.93	120	–	–	0	1	5	1
PA	ALLENTOWN	45	31	62	24	38	3	0.63	-0.09	0.30	0.70	85	4.68	68	93	56	0	5	5	0
	ERIE	42	29	59	22	35	3	1.72	1.09	0.80	2.05	289	7.35	141	92	64	0	5	5	2
	HARRISBURG	49	33	64	28	41	4	0.74	0.01	–	0.94	107	4.41	66	–	–	0	3	-	-
	PHILADELPHIA	50	34	66	28	42	3	1.00	0.26	0.76	1.23	146	6.70	98	86	58	0	2	5	1
	PITTSBURGH	46	29	60	14	38	2	0.79	0.06	0.39	1.22	147	4.29	75	90	59	0	4	5	0
	SCRANTON	42	30	58	24	36	3	0.73	0.19	0.30	0.73	118	3.33	68	92	58	0	5	6	0
RI	PROVIDENCE	45	31	60	24	38	4	0.51	-0.37	0.17	0.51	50	6.61	78	86	50	0	4	6	0
SC	CHARLESTON	76	53	85	38	64	9	0.00	-1.00	0.00	0.00	0	4.88	62	88	46	0	0	0	0
	COLUMBIA	75	47	84	33	61	8	0.02	-1.09	0.02	0.02	2	9.15	93	90	39	0	0	1	0
	FLORENCE	73	48	87	34	60	8	–	–	–	–	–	–	–	93	46	0	0	-	-
	GREENVILLE	68	45	78	37	56	8	0.68	-0.55	0.47	0.76	54	11.62	117	85	45	0	0	3	0
SD	ABERDEEN	23	0	36	-17	11	-12	0.06	-0.14	0.03	0.06	26	2.28	158	87	60	0	7	2	0
	HURON	29	6	42	-8	18	-9	0.08	-0.23	0.08	0.14	40	1.48	103	84	67	0	7	1	0
	RAPID CITY	41	17	56	8	29	-2	0.00	-0.18	0.00	0.00	0	0.87	80	84	52	0	7	0	0
	SIOUX FALLS	30	7	46	-6	18	-9	0.01	-0.27	0.01	0.05	16	1.82	124	84	57	0	7	1	0
TN	CHATTANOOGA	68	46	76	33	57	10	1.76	0.39	0.93	1.79	115	13.17	117	89	42	0	0	3	1
	KNOXVILLE	65	46	74	30	55	9	2.90	1.75	1.08	2.95	225	13.03	137	85	50	0	1	3	3
	MEMPHIS	65	44	74	36	54	5	1.97	0.80	1.97	4.83	363	16.82	179	99	93	0	0	1	1
	NASHVILLE	64	42	74	30	53	6	5.94	4.88	2.92	6.11	505	13.20	153	89	51	0	1	3	3
TX	ABILENE	66	43	80	32	55	2	0.61	0.33	0.61	0.70	226	4.28	171	84	43	0	1	1	1
	AMARILLO	63	29	71	20	46	2	0.00	-0.21	0.00	0.00	0	1.10	82	77	19	0	5	0	0
	AUSTIN	68	49	73	40	58	0	0.15	-0.28	0.11	0.15	31	5.12	117	86	48	0	0	5	0
	BEAUMONT	73	50	81	42	62	3	0.08	-0.66	0.04	0.08	9	10.70	119	100	69	0	0	2	0
	BROWNSVILLE	78	58	85	49	68	1	0.05	-0.06	0.03	0.05	31	1.08	39	94	42	0	0	3	0
	CORPUS CHRISTI	76	55	83	43	66	3	0.14	-0.11	0.14	0.14	48	1.52	38	88	39	0	0	1	0
	DEL RIO	74	51	82	41	63	2	0.01	-0.10	0.01	0.01	8	2.25	136	80	29	0	0	1	0
	EL PASO	70	38	80	27	54	2	0.00	-0.08	0.00	0.11	122	0.82	89	52	13	0	2	0	0
	FORT WORTH	65	44	75	34	55	3	0.86	0.22	0.76	0.87	119	8.55	172	92	55	0	0	4	1
	GALVESTON	67	55	78	49	61	2	0.07	-0.43	0.07	0.07	12	7.04	116	–	–	0	0	1	0
	HOUSTON	73	47	78	41	60	2	0.19	-0.47	0.14	0.28	37	8.94	128	92	55	0	0	3	0
	LUBBOCK	66	33	74	24	50	2	0.00	-0.19	0.00	0.03	14	1.61	126	81	23	0	3	0	0
	MIDLAND	70	40	82	32	55	2	0.00	-0.11	0.00	0.00	0	1.89	162	83	23	0	1	0	0
	SAN ANGELO	69	42	81	29	56	1	0.66	0.47	0.66	0.85	386	5.73	274	87	40	0	1	1	1
	SAN ANTONIO	70	50	76	38	60	1	0.70	0.37	0.57	0.72	189	3.44	88	87	42	0	0	3	1
	VICTORIA	72	51	78	44	62	1	0.14	-0.21	0.12	0.15	37	5.59	122	90	51	0	0	2	0
	WACO	65	43	72	32	54	-1	0.97	0.47	0.94	1.55	272	11.87	276	94	55	0	1	3	1
	WICHITA FALLS	64	40	70	31	52	2	0.08	-0.35	0.06	0.08	16	3.29	106	83	38	0	1	2	0
UT	CEDAR CITY	53	23	64	14	38	0	0.08	-0.21	0.06	0.08	24	2.49	130	63	35	0	7	2	0
	SALT LAKE CITY	48	29	58	24	39	0	0.68	0.29	0.25	0.68	155	4.57	163	77	32	0	5	4	0
VT	BURLINGTON	33	20	53	8	27	1	0.99	0.54	0.63	0.99	190	3.86	98	82	56	0	7	5	1
VA	NORFOLK	58	44	78	35	51	6	0.69	-0.16	0.42	0.69	70	5.57	68	89	60	0	0	4	0
	RICHMOND	59	39	76	31	49	5	1.07	0.24	0.80	1.14	119	6.78	92	–	–	0	2	2	1
	ROANOKE	62	40	74	35	51	7	1.46	0.68	1.13	1.52	171	7.07	108	83	51	0	0	3	1
WA	QUILLAYUTE	46	35	49	31	41	-2	2.93	0.15	1.19	5.28	166	32.01	106	96	71	0	2	7	3
	SEATTLE-TACOMA	47	38	52	34	42	-3	1.74	0.89	0.46	2.17	221	11.19	108	94	64	0	0	6	0
	SPOKANE	42	29	49	26	36	-1	0.11	-0.25	0.07	0.43	105	3.50	90	93	58	0	6	2	0
	YAKIMA	50	30	56	24	40	-1	0.00	-0.17	0.00	0.00	0	1.34	62	81	40	0	7	0	0
WV	BECKLEY	56	37	66	24	47	8	2.56	1.82	1.34	2.59	305	7.13	106	89	58	0	2	5	2
	CHARLESTON	56	37	71	27	47	5	2.61	1.80	1.57	5.37	584	8.64	126	84	55	0	1	5	3
	HUNTINGTON	54	37	65	27	45	5	2.84	1.87	1.10	5.77	656	9.35	134	84	58	0	1	3	3
	PARKERSBURG	50	33	61	24	41	3	1.48	0.66	1.21	3.82	406	7.40	106	–	–	0	4	2	1
WI	GREEN BAY	31	20	35	8	26	0	0.06	-0.33	0.05	0.16	36	2.76	105	88	60	0	7	2	0
	LACROSSE	34	19	46	12	27	-1	0.00	-0.35	0.00	0.05	14	3.01	137	–	–	0	7	-	-
	MADISON	35	22	39	13	28	0	0.00	-0.39	0.00	0.09	20	3.52	133	85	55	0	7	0	0
	MILWAUKEE	36	26	39	17	31	2	0.02	-0.48	0.02	0.10	18	4.07	113	–	–	0	6	1	0
	WAUSAU	32	16	37	5	24	0	0.06	-0.30	0.04	0.23	56	2.65	120	–	–	0	7	2	0
WY	CASPER	39	21	51	10	30	-1	0.28	0.11	0.15	0.28	140	1.39	105	76	45	0	7	3	0
	CHEYENNE	43	22	57	11	32	1	0.11	-0.08	0.11	0.11	52	0.82	83	72	29	0	7	1	0
	LANDER	39	17	48	7	28	-3	0.25	0.06	0.25	0.25	114	0.84	66	74	48	0	7	1	0
	SHERIDAN	39	21	48	15	30	-1	0.11	-0.06	0.02	0.11	55	1.01	64	80	46	0	7	2	0
PR	SAN JUAN	81	71	81	70	76	-2	1.01	0.54	–	1.01	180	9.60	119	90	73	0	0	-	-

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.

National Weather Data for Selected Cities

Weather Data for the Week Ending March 15, 1997

STATES AND STATIONS		TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																	TEMP. °F		PRECIP.	
		AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Mar 1	PCT. NORMAL SINCE Mar 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.05 INCH OR MORE
AL	BIRMINGHAM	72	48	80	33	60	7	0.67	-0.76	0.42	2.39	80	13.51	105	–	–	0	0	3	0
	MOBILE	75	60	84	47	68	8	3.39	1.90	3.39	3.54	111	14.09	105	96	45	0	0	1	1
	MONTGOMERY	75	52	81	44	64	9	0.61	-0.86	0.57	0.89	29	13.85	104	89	41	0	0	3	1
AK	ANCHORAGE	33	17	40	11	25	1	0.00	-0.17	0.00	0.08	23	0.71	37	67	49	0	7	0	0
	BARROW	12	-3	26	-19	5	21	0.03	0.00	0.01	0.03	50	0.11	38	88	81	0	7	3	0
	FAIRBANKS	19	-11	28	-23	4	-4	0.01	-0.07	0.01	0.02	11	0.61	56	81	48	0	7	1	0
	JUNEAU	35	22	41	16	28	-4	–	–	–	–	–	–	–	–	–	0	7	-	-
	KODIAK	38	26	44	21	32	0	0.17	-0.89	0.10	0.56	24	17.48	117	65	45	0	7	2	0
	NOME	16	-4	32	-14	6	-2	0.00	-0.11	0.00	0.15	62	2.04	125	81	65	0	7	0	0
AZ	PHOENIX	88	58	91	51	73	12	0.00	-0.22	0.00	0.00	0	1.46	80	49	13	2	0	0	0
	PRESCOTT	71	33	73	30	52	10	0.00	-0.44	0.00	0.00	0	3.06	76	–	–	0	5	0	0
	TUCSON	85	51	86	45	68	10	0.00	-0.17	0.00	0.00	0	1.61	85	43	11	0	0	0	0
	YUMA	91	60	94	55	75	11	0.00	-0.06	0.00	0.00	0	0.47	69	–	–	5	0	0	0
AR	FORT SMITH	64	42	77	30	53	3	1.94	1.05	0.84	3.22	176	10.28	162	89	53	0	1	3	2
	LITTLE ROCK	64	45	75	30	55	3	1.73	0.65	1.12	6.88	297	14.15	156	–	–	0	1	3	1
CA	BAKERSFIELD	74	45	79	42	60	3	0.00	-0.25	0.00	0.00	0	2.78	113	87	10	0	0	0	0
	EUREKA	61	37	91	33	49	0	0.16	-1.10	0.09	1.93	72	13.31	99	86	33	1	0	4	0
	FRESNO	73	46	78	40	59	5	0.00	-0.44	0.00	0.00	0	3.39	72	91	10	0	0	0	0
	LOS ANGELES	70	53	87	50	61	4	0.15	-0.33	0.10	0.15	14	4.36	73	88	35	0	0	3	0
	REDDING	71	43	76	38	57	6	0.14	-0.90	0.00	0.82	36	10.53	82	–	–	0	0	2	0
	SACRAMENTO	72	43	79	37	58	4	0.00	-0.62	0.00	0.06	4	8.00	103	–	–	0	0	0	0
	SAN DIEGO	71	54	85	51	63	3	0.00	-0.41	0.00	0.00	0	3.27	77	83	29	0	0	0	0
	SAN FRANCISCO	65	46	71	43	56	3	0.00	-0.73	0.00	0.11	7	7.91	87	84	42	0	0	0	0
CO	DENVER	56	23	75	8	40	2	0.08	-0.19	0.06	0.10	19	0.76	48	–	–	0	5	2	0
	GRAND JUNCTION	64	29	71	20	46	4	0.00	-0.20	0.00	0.06	14	0.77	52	66	20	0	3	0	0
	PUEBLO	60	22	78	14	41	0	0.00	-0.17	0.00	0.23	70	0.82	85	68	20	0	7	0	0
CT	BRIDGEPORT	44	27	51	22	36	-2	1.68	0.84	1.26	2.20	125	7.30	91	–	–	0	7	2	1
	HARTFORD	39	23	48	18	31	-5	1.00	0.19	0.59	1.65	96	6.23	75	76	36	0	7	3	1
DC	WASHINGTON	55	36	67	33	46	0	0.60	-0.12	0.40	2.41	158	7.41	106	69	31	0	0	4	0
FL	PANAMA CITY	78	59	84	52	68	10	–	–	–	–	–	–	–	–	–	0	0	-	-
	DAYTONA BEACH	78	60	86	54	69	6	1.10	0.42	1.00	1.11	74	3.59	49	–	–	0	0	2	1
	JACKSONVILLE	79	55	84	50	67	5	0.56	-0.29	0.39	0.56	30	4.73	53	96	51	0	0	2	0
	KEY WEST	82	71	83	63	76	3	0.63	0.24	0.60	1.22	145	5.55	119	87	66	0	0	3	1
	MIAMI	83	69	85	63	76	5	1.35	0.81	1.31	1.48	130	4.71	90	85	58	0	0	4	1
	ORLANDO	81	62	86	58	71	5	2.40	1.63	1.23	2.40	143	5.91	84	93	55	0	0	3	3
	TALLAHASSEE	80	53	84	46	67	7	0.56	-0.91	0.56	0.60	19	10.02	74	93	44	0	0	1	1
	TAMPA	82	65	86	61	74	8	0.52	-0.22	0.41	0.52	32	2.14	32	92	57	0	0	2	0
	WEST PALM BEACH	81	66	83	62	73	3	1.68	1.00	1.33	2.11	144	10.81	158	89	63	0	0	3	1
GA	ATLANTA	72	52	78	35	62	10	1.06	-0.28	0.98	1.40	49	14.04	113	79	49	0	0	2	1
	AUGUSTA	76	47	83	37	62	7	1.28	0.20	1.11	1.32	57	9.82	92	92	42	0	0	2	1
	MACON	76	51	81	42	63	7	0.44	-0.68	0.31	0.51	21	10.98	94	90	41	0	0	2	0
	SAVANNAH	77	54	82	47	65	7	0.49	-0.39	0.24	0.79	43	6.18	71	95	50	0	0	3	0
HI	HILO	82	66	85	63	74	2	3.23	0.17	1.54	9.48	150	19.65	74	92	72	0	0	5	2
	HONOLULU	83	70	86	67	76	2	0.87	0.35	–	1.13	104	9.00	131	86	66	0	0	-	-
	KAHULUI	83	65	86	62	74	1	–	–	–	–	–	–	–	90	67	0	0	-	-
	LIHUE	79	69	79	64	75	2	–	–	–	–	–	–	–	87	71	0	0	-	-
ID	BOISE	54	31	65	22	43	1	0.01	-0.28	0.01	0.16	26	3.03	97	67	32	0	3	1	0
	LEWISTON	46	32	52	28	39	-5	1.18	0.93	0.37	1.37	269	5.01	186	–	–	0	4	5	0
	POCATELLO	49	28	63	20	39	4	0.01	-0.27	0.01	0.26	45	2.23	88	67	32	0	4	1	0
IL	CHICAGO	41	26	57	13	33	-2	0.30	-0.27	0.13	0.42	38	6.20	154	86	53	0	6	3	0
	MOLINE	46	25	61	10	36	0	–	–	–	–	–	–	–	–	–	0	6	-	-
	PEORIA	46	27	57	13	37	0	0.28	-0.34	0.25	0.39	32	6.65	159	83	44	0	4	3	0
	QUINCY	48	30	57	15	39	0	–	–	–	–	–	–	–	–	–	0	3	-	-
	ROCKFORD	40	25	56	8	33	-1	0.49	-0.02	0.40	0.57	57	4.53	132	–	–	0	7	3	0
	SPRINGFIELD	49	28	57	15	38	-1	1.36	0.65	0.72	1.70	119	5.79	123	–	–	0	6	2	2
IN	EVANSVILLE	56	35	65	24	46	1	1.87	0.80	0.90	4.46	201	11.44	143	89	47	0	3	3	2
	FORT WAYNE	42	27	51	19	34	-2	1.99	1.35	0.87	2.22	171	7.97	157	87	60	0	7	3	2
	INDIANAPOLIS	49	30	55	19	39	-1	2.10	1.25	1.05	2.90	166	10.31	158	83	48	0	4	3	2
	SOUTH BEND	40	25	53	18	33	-3	0.71	0.04	0.31	0.82	61	5.63	103	–	–	0	7	3	0
IA	DES MOINES	45	26	61	10	36	0	0.60	0.15	0.56	0.64	74	1.56	55	86	43	0	6	2	1
	SIOUX CITY	42	24	64	9	33	-1	0.03	-0.40	0.02	0.26	31	1.20	57	87	48	0	7	2	0
	WATERLOO	38	24	55	6	31	-1	1.03	0.54	0.70	1.03	107	2.78	98	–	–	0	6	3	1
KS	CONCORDIA	56	28	79	13	42	2	0.09	-0.40	0.05	0.11	11	1.65	72	82	34	0	3	2	0
	DODGE CITY	59	27	78	14	43	1	0.00	-0.33	0.00	0.00	0	1.22	69	76	30	0	4	0	0
	GOODLAND	53	22	74	11	38	0	0.00	-0.27	0.00	0.00	0	0.63	48	71	29	0	7	0	0
	TOPEKA	57	30	75	18	44	2	0.01	-0.52	0.01	0.13	12	3.00	98	79	34	0	3	1	0
	WICHITA	58	29	73	20	44	-1	0.02	-0.55	0.02	0.11	10	2.63	84	81	35	0	5	1	0
KY	BOWLING GREEN	62	37	73	25	49	3	–	–	–	–	–	–	–	–	–	0	2	-	-
	LEXINGTON	55	34	64	22	45	0	1.38	0.38	0.75	9.90	474	17.90	219	82	37	0	2	3	1
	LOUISVILLE	58	38	69	27	48	3	1.15	0.09	0.55	9.38	426	18.04	216	87	42	0	2	3	1
LA	BATON ROUGE	74	57	78	48	65	5	0.96	-0.11	0.94	1.29	55	14.93	117	–	–	0	0	2	1
	LAKE CHARLES	74	61	80	50	68	8	0.99	0.24	0.83	1.05	64	14.32	147	96	65	0	0	5	1
	NEW ORLEANS	75	62	79	55	68	8	1.00	-0.13	0.94	1.13	45	13.68	101	91	48	0	0	4	1
	SHREVEPORT	68	54	79	39	61	5	3.15	2.23	1.57	6.68	336	19.25	186	91	63	0	0	4	2

Based on 1961-90 normals

Weather Data for the Week Ending March 15, 1997

STATES AND STATIONS		TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																	TEMP, °F		PRECIP.	
		AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Mar 1	PCT. NORMAL SINCE Mar 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.05 INCH OR MORE
ME	CARIBOU	24	2	32	-9	13	-10	0.55	0.00	0.21	1.84	161	7.67	140	81	54	0	7	4	0
	PORTLAND	34	17	40	9	26	-6	1.08	0.27	0.83	1.99	116	7.02	82	83	43	0	7	4	1
MD	BALTIMORE	52	32	63	27	42	-1	–	–	–	–	–	–	–	–	–	0	5	-	-
	SALISBURY	55	33	66	30	44	0	–	–	–	–	–	–	–	–	–	0	3	-	-
MA	BOSTON	37	24	46	17	30	-7	1.46	0.63	1.00	2.13	120	5.63	63	81	41	0	7	5	1
	WORCESTER	33	18	41	11	26	-7	1.01	0.12	0.78	1.82	97	6.89	76	–	–	0	7	4	1
MI	ALPENA	29	12	39	3	21	-6	1.29	0.83	1.06	1.86	196	8.00	206	88	51	0	7	4	1
	DETROIT	39	25	49	17	32	-2	1.88	1.32	1.41	2.19	192	7.82	169	80	45	0	7	4	1
	FLINT	35	23	46	15	29	-4	0.49	0.03	0.16	0.62	67	5.58	156	86	58	0	7	5	0
	GRAND RAPIDS	36	24	49	16	30	-3	0.29	-0.27	0.12	0.57	51	7.31	167	88	57	0	7	4	0
	HOUGHTON LAKE	29	15	37	5	22	-5	0.41	-0.03	0.19	0.76	84	5.03	141	86	57	0	7	5	0
	LANSING	36	22	48	13	29	-2	0.83	0.36	0.34	1.02	109	6.09	169	–	–	0	7	4	0
	MARQUETTE	27	7	39	-6	17	-5	2.44	1.82	1.60	2.80	219	10.40	200	91	55	0	7	4	2
	MUSKEGON	35	23	46	17	29	-3	0.47	-0.08	0.21	0.61	55	5.89	119	–	–	0	6	3	0
	SAULT ST. MARIE	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	-	-	-	-
MN	ALEXANDRIA	25	10	38	-14	17	-7	–	–	–	–	–	–	–	–	–	0	7	-	-
	DULUTH	25	11	37	-8	18	-5	0.07	-0.35	0.06	0.31	38	1.81	64	87	48	0	7	2	0
	INT'L FALLS	22	-1	32	-19	11	-9	–	–	–	–	–	–	–	81	46	0	7	-	-
	MINNEAPOLIS	31	19	42	-3	25	-4	0.40	-0.02	0.24	0.90	108	2.72	102	81	58	0	7	4	0
	ROCHESTER	30	18	44	-10	24	-4	1.16	0.79	0.87	1.21	168	3.65	163	–	–	0	7	4	1
MS	GREENWOOD	69	51	78	36	60	6	–	–	–	–	–	–	–	–	–	0	0	-	-
	JACKSON	70	52	77	40	61	7	0.79	-0.56	0.72	1.36	48	12.55	96	92	59	0	0	3	1
	MERIDIAN	72	51	79	41	61	6	1.44	-0.10	0.87	2.35	71	12.93	93	96	47	0	0	3	1
MO	CAPE GIRARDEAU	54	37	70	25	44	-1	0.00	-1.14	0.00	2.58	109	10.21	119	–	–	0	3	0	0
	COLUMBIA	54	32	64	19	43	3	0.72	0.05	0.36	0.84	61	7.96	171	88	44	0	3	3	0
	KANSAS CITY	55	29	71	18	42	1	0.19	-0.36	0.18	0.26	24	3.57	109	82	40	0	5	2	0
	SAINT LOUIS	53	33	62	21	43	-1	1.35	0.55	0.87	1.50	91	8.27	149	86	44	0	3	3	1
	SPRINGFIELD	56	32	70	20	44	0	2.00	1.15	1.07	2.47	144	7.59	141	90	43	0	3	2	2
MT	BILLINGS	30	14	47	-8	22	-12	0.24	0.00	0.12	0.44	92	1.41	69	87	57	0	7	3	0
	GLASGOW	24	8	40	-13	16	-12	0.14	0.06	0.13	0.14	78	0.49	62	86	65	0	7	2	0
	GREAT FALLS	31	9	47	-10	20	-12	0.29	0.05	0.28	0.43	90	0.87	44	86	56	0	7	2	0
	HAVRE	28	7	48	-19	18	-12	0.05	-0.09	0.05	0.05	18	0.25	21	86	55	0	7	1	0
	HELENA	37	16	55	3	26	-6	0.02	-0.14	0.01	0.05	16	0.41	30	78	52	0	6	2	0
	KALISPELL	31	15	39	0	23	-10	0.93	0.71	0.39	1.32	275	4.35	140	89	57	0	7	4	0
	MILES CITY	35	15	50	-6	25	-6	0.13	0.01	0.07	0.13	54	0.43	35	–	–	0	5	2	0
	MISSOULA	35	22	41	10	28	-6	1.26	1.04	0.43	1.48	315	3.93	156	88	65	0	7	5	0
NE	GRAND ISLAND	49	24	72	11	37	1	0.00	-0.41	0.00	0.02	2	1.08	54	84	36	0	4	0	0
	LINCOLN	52	26	69	14	39	2	0.05	-0.40	0.05	0.05	6	0.98	46	–	–	0	4	1	0
	NORFOLK	45	24	67	11	35	1	0.01	-0.39	0.01	0.53	66	1.52	73	83	41	0	6	1	0
	NORTH PLATTE	47	20	73	8	34	-1	0.03	-0.22	0.03	0.03	6	0.70	54	84	31	0	6	1	0
	OMAHA	49	26	67	14	37	0	0.40	-0.04	–	0.40	49	1.56	67	81	42	0	6	-	-
	SCOTTSBLUFF	48	18	76	3	33	-2	0.15	-0.08	0.08	0.15	33	0.78	55	–	–	0	6	2	0
	VALENTINE	43	18	61	4	31	-1	0.00	-0.22	0.00	0.00	0	0.51	46	–	–	0	6	0	0
NV	ELY	60	25	63	21	43	9	0.00	-0.22	0.00	0.00	0	1.89	103	80	17	0	7	0	0
	LAS VEGAS	80	51	83	47	66	10	0.00	-0.11	0.00	0.00	0	0.20	17	37	9	0	0	0	0
	RENO	66	28	74	25	47	5	0.00	-0.17	0.00	0.00	0	4.02	162	80	22	0	6	0	0
	WINNEMUCCA	63	27	70	16	45	6	0.00	-0.17	0.00	0.00	0	1.65	96	60	16	0	5	0	0
NH	CONCORD	33	15	42	1	24	-7	0.90	0.29	0.58	1.40	108	6.84	108	–	–	0	7	3	1
NJ	ATLANTIC CITY	50	28	61	24	39	-1	1.62	0.81	1.08	3.61	212	9.91	120	79	37	0	5	4	1
NM	ALBUQUERQUE	70	38	74	35	54	8	0.00	-0.11	0.00	0.00	0	0.67	60	49	8	0	0	0	0
	CLOVIS	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	-	-	-	-
	ROSWELL	71	36	84	30	53	2	–	–	–	–	–	–	–	–	–	0	2	-	-
NY	ALBANY	36	20	45	13	28	-5	0.53	-0.13	0.40	1.27	93	3.63	60	86	44	0	7	3	0
	BINGHAMTON	36	18	45	12	27	-4	0.56	-0.07	0.48	1.78	136	4.65	77	87	40	0	7	4	0
	BUFFALO	37	22	45	10	29	-3	1.46	0.86	1.21	2.72	216	9.93	158	85	51	0	6	4	1
	NEW YORK	46	30	53	26	38	-2	1.55	0.75	1.11	2.36	141	8.75	116	76	30	0	5	2	1
	ROCHESTER	36	21	45	13	29	-4	1.06	0.56	0.91	2.14	200	6.66	127	–	–	0	7	5	1
	SYRACUSE	37	20	45	7	29	-4	1.09	0.48	0.96	1.90	152	5.33	93	80	44	0	6	4	1
NC	ASHEVILLE	62	38	70	30	50	3	1.89	0.57	1.42	3.06	109	12.70	114	–	–	0	2	3	1
	CHARLOTTE	71	49	80	40	60	10	0.68	-0.37	0.60	1.63	73	8.99	92	77	40	0	0	2	1
	GREENSBORO	65	43	74	36	54	6	0.52	-0.33	0.42	2.05	112	7.83	94	78	44	0	0	4	0
	HATTERAS	60	48	65	41	53	2	4.20	3.21	4.17	4.28	202	11.77	102	68	43	0	0	3	1
	NEW BERN	68	50	79	43	59	7	1.46	0.55	1.44	1.81	91	9.01	86	–	–	0	0	2	1
	RALEIGH	66	41	76	33	53	4	0.82	-0.07	0.79	1.42	74	7.37	81	86	37	0	0	2	1
	WILMINGTON	68	48	80	39	58	6	0.46	-0.58	0.40	0.48	21	7.33	65	–	–	0	0	2	0
ND	BISMARCK	24	8	44	-20	16	-10	0.49	0.34	0.42	0.51	176	1.92	161	81	61	0	7	3	0
	FARGO	23	2	36	-18	12	-11	0.04	-0.17	0.03	0.40	98	1.03	66	84	60	0	7	2	0
	GRAND FORKS	22	0	35	-15	11	-11	0.17	-0.03	0.10	0.35	87	1.24	78	–	–	0	7	2	0
	WILLISTON	22	5	39	-21	13	-13	0.40	0.26	0.24	0.72	267	1.15	92	86	64	0	7	4	0
OH	AKRON-CANTON	43	25	53	20	34	-3	0.62	-0.13	0.39	1.26	81	4.26	72	81	43	0	7	2	0
	CINCINNATI	52	30	60	19	41	-1	1.39	0.43	0.67	3.85	194	8.37	116	82	39	0	4	3	2
	CLEVELAND	43	26	54	22	35	-1	0.99	0.34	0.45	2.21	165	6.91	124	89	49	0	7	5	0
	COLUMBUS	49	29	56	23	39	-1	1.37	0.64	0.61	2.77	182	6.39	108	78	44	0	6	3	1
	DAYTON	48	28	57	20	38	-1	1.31	0.55	0.66	2.62	168	6.71	115	87	53	0	5	3	2

Based on 1961-90 normals

Weather Data for the Week Ending March 15, 1997

STATES AND STATIONS		TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																	TEMP, °F		PRECIP.	
		AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Mar 1	PCT. NORMAL SINCE Mar 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.05 INCH OR MORE
	TOLEDO	41	26	50	17	33	-1	0.86	0.27	0.67	1.20	100	7.82	167	87	54	0	7	3	1
	YOUNGSTOWN	42	23	53	20	32	-2	1.12	0.42	0.61	2.10	147	3.48	62	84	47	0	7	4	1
OK	OKLAHOMA CITY	63	38	80	27	51	2	0.00	-0.61	0.00	0.00	0	2.61	66	77	35	0	2	0	0
	TULSA	63	38	79	27	50	1	0.18	-0.59	0.07	0.34	22	4.00	79	79	37	0	2	3	0
OR	ASTORIA	49	39	53	34	44	-2	4.16	2.50	1.63	8.67	241	24.83	117	94	74	0	0	7	4
	BURNS	52	24	60	15	38	3	0.05	-0.20	0.05	0.10	20	2.92	129	–	–	0	7	1	0
	MEDFORD	58	37	66	29	47	1	0.13	-0.30	0.08	0.66	71	5.19	93	87	31	0	1	2	0
	PENDLETON	48	33	58	29	41	-4	0.49	0.21	0.44	0.79	136	2.21	68	89	47	0	4	4	0
	PORTLAND	51	38	57	34	45	-2	2.64	1.81	0.62	4.85	268	13.64	124	94	57	0	0	6	3
	SALEM	51	39	57	34	45	0	2.27	1.29	1.04	5.05	236	16.19	129	–	–	0	0	5	2
PA	ALLENTOWN	45	25	52	19	35	-3	1.55	0.81	1.33	2.25	144	6.22	81	80	36	0	7	3	1
	ERIE	41	24	49	20	33	-2	1.12	0.45	0.65	3.17	230	8.47	144	89	53	0	6	4	1
	HARRISBURG	47	30	56	25	39	-1	1.48	0.74	–	2.42	147	5.89	79	–	–	0	5	-	-
	PHILADELPHIA	50	29	58	22	40	-2	1.54	0.77	1.02	2.77	172	8.24	108	72	39	0	6	3	1
	PITTSBURGH	46	26	57	20	36	-2	0.90	0.13	0.30	2.12	133	5.18	79	79	42	0	6	4	0
	SCRANTON	41	24	51	18	32	-3	0.49	-0.07	0.45	1.22	103	3.83	70	78	32	0	7	3	0
RI	PROVIDENCE	42	24	52	20	33	-3	1.20	0.29	0.72	1.71	89	7.82	83	73	35	0	7	3	1
SC	CHARLESTON	75	53	83	47	64	7	1.04	0.02	0.87	1.04	48	5.93	67	91	45	0	0	2	1
	COLUMBIA	75	50	82	40	62	8	0.74	-0.39	0.65	0.76	32	9.89	90	85	42	0	0	2	1
	FLORENCE	73	49	82	41	61	7	–	–	–	–	–	–	–	–	–	0	0	-	-
	GREENVILLE	70	48	79	36	59	8	0.70	-0.55	0.39	1.46	55	12.31	110	80	41	0	0	2	0
SD	ABERDEEN	26	10	42	-16	18	-9	0.36	0.13	0.32	0.42	91	2.63	157	87	57	0	7	3	0
	HURON	30	17	42	-3	23	-7	0.00	-0.36	0.00	0.14	20	1.48	83	89	64	0	7	0	0
	RAPID CITY	39	17	60	3	28	-5	0.00	-0.21	0.00	0.00	0	0.87	67	87	45	0	7	0	0
	SIOUX FALLS	31	19	43	-1	25	-6	0.04	-0.30	0.03	0.09	14	1.87	103	94	61	0	7	2	0
TN	CHATTANOOGA	69	45	77	32	57	8	0.73	-0.67	0.56	2.52	85	13.90	110	87	39	0	1	2	1
	KNOXVILLE	65	42	75	31	53	6	0.70	-0.49	0.39	3.65	146	13.74	128	91	46	0	1	4	0
	MEMPHIS	66	47	75	31	56	4	1.35	0.14	0.91	6.18	243	18.17	171	–	–	0	1	3	1
	NASHVILLE	64	41	76	29	53	4	0.67	-0.43	0.31	6.78	294	13.88	143	88	42	0	2	4	0
TX	ABILENE	67	47	84	28	57	2	0.02	-0.28	0.02	0.72	118	4.30	154	89	46	0	1	1	0
	AMARILLO	64	31	77	22	48	2	0.00	-0.22	0.00	0.00	0	1.10	71	83	28	0	4	0	0
	AUSTIN	70	56	84	42	63	2	0.58	0.17	0.54	0.73	80	5.70	119	92	58	0	0	3	1
	BEAUMONT	72	60	78	53	66	6	1.13	0.39	0.65	1.21	76	11.82	121	–	–	0	0	5	1
	BROWNSVILLE	79	64	92	55	72	4	3.12	3.01	1.97	3.17	1320	4.20	147	96	60	1	0	5	2
	CORPUS CHRISTI	75	60	84	50	68	3	2.39	2.19	1.38	2.53	516	3.91	94	92	62	0	0	3	2
	DEL RIO	72	57	87	43	64	2	2.39	2.27	1.17	2.40	923	4.63	262	88	49	0	0	5	2
	EL PASO	76	44	81	38	60	6	0.00	-0.07	0.00	0.11	65	0.82	83	56	14	0	0	0	0
	FORT WORTH	66	49	77	33	57	3	0.66	-0.01	0.34	1.53	110	9.21	164	89	59	0	0	3	0
	GALVESTON	70	61	75	54	66	5	2.41	1.91	2.15	2.48	234	9.44	143	–	–	0	0	5	1
	HOUSTON	74	60	83	50	67	7	4.88	4.22	4.29	5.16	363	13.83	180	93	67	0	0	4	1
	LUBBOCK	67	36	83	27	51	1	0.00	-0.19	0.00	0.03	7	1.61	109	85	28	0	3	0	0
	MIDLAND	69	46	87	33	58	3	0.03	-0.08	0.02	0.03	12	1.92	150	87	39	0	0	2	0
	SAN ANGELO	68	48	84	32	58	1	0.74	0.55	0.51	1.59	388	6.47	284	90	54	0	1	2	1
	SAN ANTONIO	71	56	83	45	63	3	0.76	0.43	0.74	1.48	208	4.20	99	90	57	0	0	2	1
	VICTORIA	74	59	83	49	66	4	4.27	3.94	4.15	4.42	597	9.86	201	93	63	0	0	3	1
	WACO	67	51	78	35	59	2	1.38	0.87	0.97	2.93	274	13.25	276	93	62	0	0	4	1
	WICHITA FALLS	66	42	79	27	54	2	0.03	-0.45	0.03	0.11	11	3.32	93	85	43	0	2	1	0
UT	CEDAR CITY	66	29	71	24	48	9	0.00	-0.30	0.00	0.08	13	2.49	113	–	–	0	6	0	0
	SALT LAKE CITY	61	35	71	27	48	7	0.00	-0.42	0.00	0.68	79	4.57	142	69	19	0	3	0	0
VT	BURLINGTON	31	12	40	-5	21	-8	0.63	0.15	0.40	1.62	162	4.49	101	84	46	0	7	4	0
VA	NORFOLK	58	40	70	35	49	1	0.80	-0.05	0.68	1.49	81	6.37	70	90	41	0	0	2	1
	RICHMOND	59	36	72	31	48	1	0.51	-0.32	0.43	1.65	92	7.29	89	79	21	0	1	4	0
	ROANOKE	57	38	67	30	47	2	0.42	-0.38	0.40	1.94	115	7.49	102	68	34	0	1	3	0
WA	QUILLAYUTE	48	33	54	29	40	-3	3.88	1.19	1.39	9.16	156	35.89	109	99	74	0	5	5	4
	SEATTLE-TACOMA	48	36	53	33	42	-3	1.91	1.08	0.93	4.08	225	13.11	117	96	62	0	0	5	2
	SPOKANE	41	26	49	17	34	-4	0.49	0.15	0.23	0.92	123	3.99	95	89	53	0	6	3	0
	YAKIMA	47	32	60	26	40	-2	0.35	0.18	0.21	0.35	100	1.69	73	83	48	0	4	2	0
WV	BECKLEY	53	30	60	22	42	1	0.86	0.09	0.39	3.45	213	7.98	107	81	41	0	5	4	0
	CHARLESTON	58	30	68	25	44	0	0.55	-0.28	0.21	5.92	338	9.19	120	87	32	0	4	4	0
	HUNTINGTON	56	33	66	28	45	2	0.60	-0.20	0.27	6.37	379	9.96	128	80	37	0	3	4	0
	PARKERSBURG	51	29	59	23	40	-1	0.42	-0.45	0.29	4.24	236	7.83	100	–	–	0	7	3	0
WI	GREEN BAY	30	18	39	2	24	-4	1.09	0.65	0.74	1.25	140	3.85	125	93	59	0	7	4	1
	LACROSSE	35	22	54	-2	29	-2	2.37	1.96	–	2.42	310	5.38	261	–	–	0	6	-	-
	MADISON	36	22	51	5	29	-2	0.67	0.22	0.50	0.76	85	4.19	135	90	53	0	7	4	1
	MILWAUKEE	37	26	55	12	32	0	0.36	-0.21	0.18	0.46	41	4.43	106	–	–	0	6	3	0
	WAUSAU	31	18	41	-1	24	-3	0.99	0.58	0.46	1.22	149	3.64	139	–	–	0	7	4	0
WY	CASPER	47	18	64	2	33	0	0.00	-0.20	0.00	0.28	72	1.39	91	83	29	0	7	0	0
	CHEYENNE	45	21	64	6	33	1	0.22	0.00	0.12	0.33	77	1.04	86	85	30	0	5	3	0
	LANDER	49	21	65	9	35	2	0.13	-0.10	0.07	0.38	84	0.98	65	72	29	0	5	3	0
	SHERIDAN	36	15	47	-4	25	-7	0.08	-0.12	0.06	0.19	49	1.08	60	–	–	0	6	2	0
PR	SAN JUAN	–	–	–	–	–	–	0.65	0.15	–	1.66	158	10.25	119	–	–	-	-	-	-

Based on 1961-90 normals

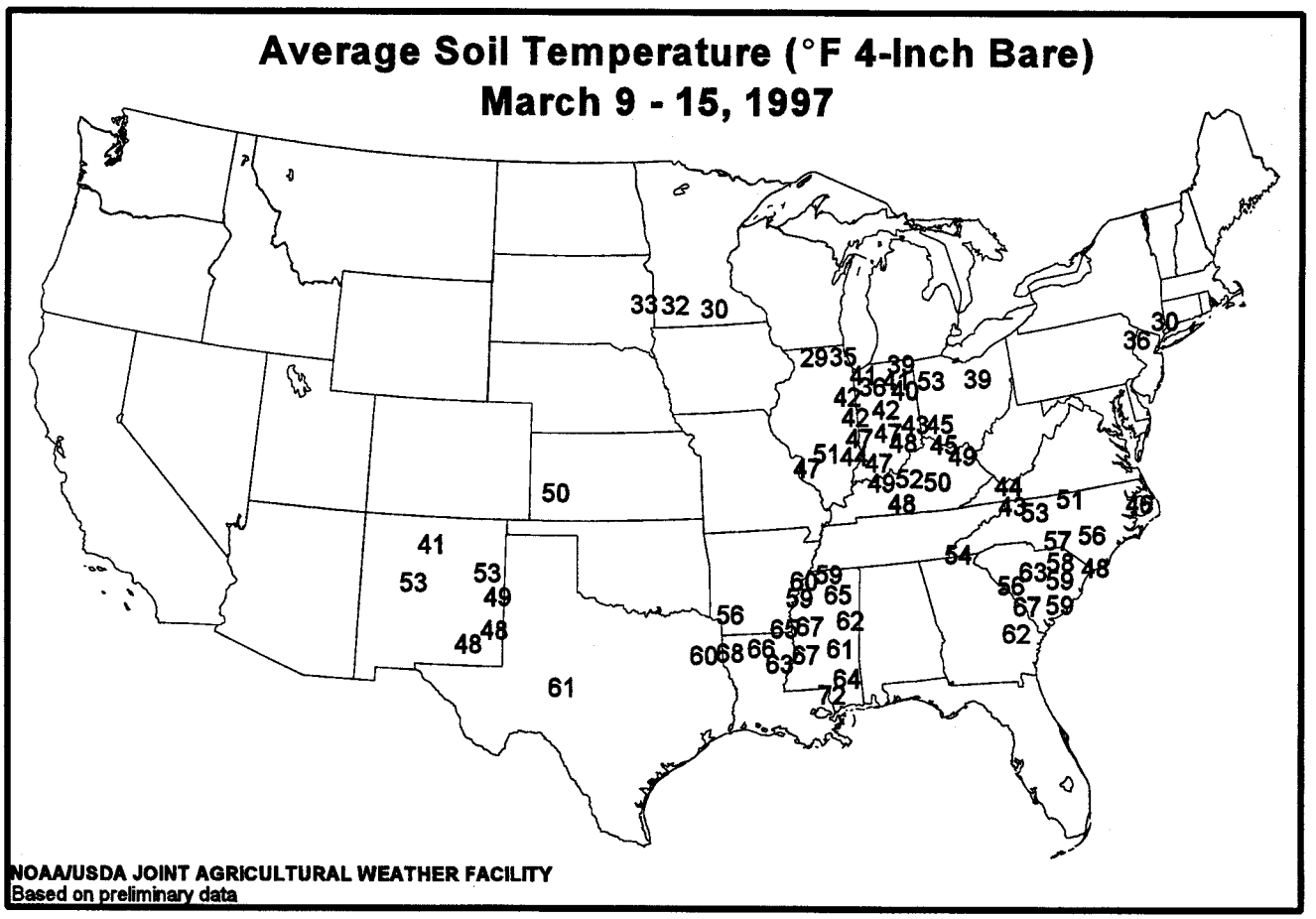
Note: These data are preliminary and subject to change. In the past, precipitation totals from a number of stations have been incomplete.

National Agricultural Summary

March 10 - 16, 1997

HIGHLIGHTS

The weather was colder than normal in the northern Plains. Heavy snowfall in the upper Midwest added to the expectations of record to near-record flooding in the Red River Valley from snow melt. The central Plains' temperatures cooled at week's end following several days in the 70's. Higher-than-normal temperatures were generally favorable to small grains and spring farm activities in the lower half of the country. Hard Red Winter (HRW) wheat was breaking dormancy into Kansas. The HRW areas most affected by last year's drought are again in need of moisture. Ohio River Valley flooding eased despite additional rainfall. Heavy rains curtailed fieldwork in east Texas and the lower Mississippi Valley. Welcome rains fell at week's end in many northern Florida localities.



International Weather and Crop Summary

March 9 - 15, 1997

HIGHLIGHTS

FSU-WESTERN: Continued unseasonably mild weather induced early greening of winter grains in parts of Ukraine.

EUROPE: Generally dry, mild weather favored early spring planting in western and northern Europe but increased moisture stress on winter grains in Spain.

NORTHWESTERN AFRICA: Adverse dryness continued in Morocco, while scattered showers brought temporary relief to drought-stressed winter grains in eastern Algeria and Tunisia.

AUSTRALIA: Dry weather favored maturing cotton and sorghum.

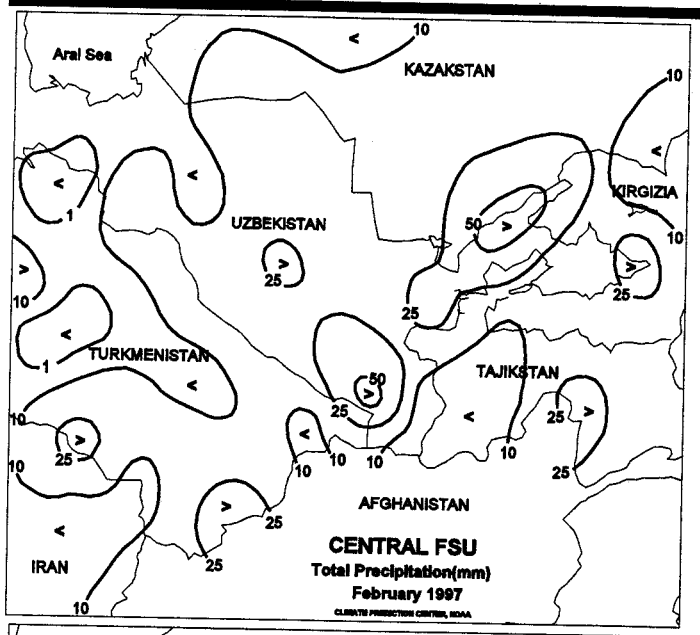
SOUTH AFRICA: Scattered showers kept central and northern sections of the corn belt wet for filling crops.

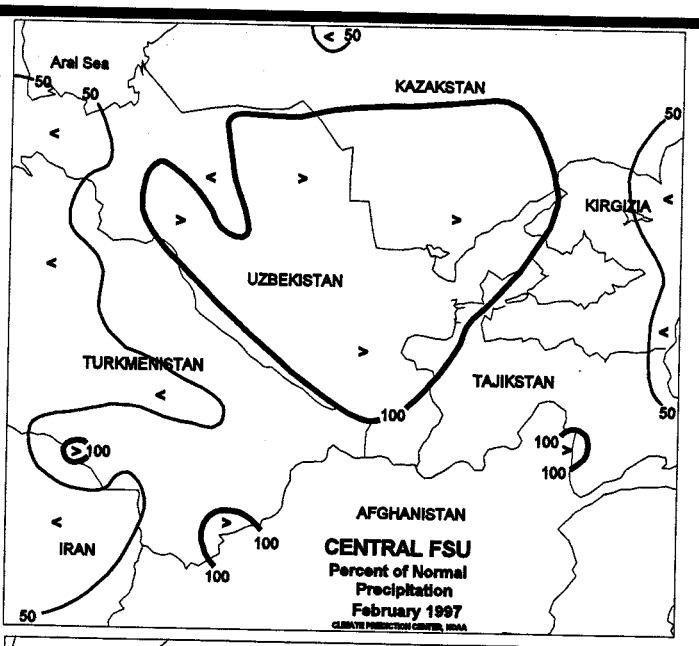
SOUTHEAST ASIA: Showers slowed main-season rice harvesting in Java. Hot, dry weather prevailed across Thailand, increasing irrigation demands of secondary crops.

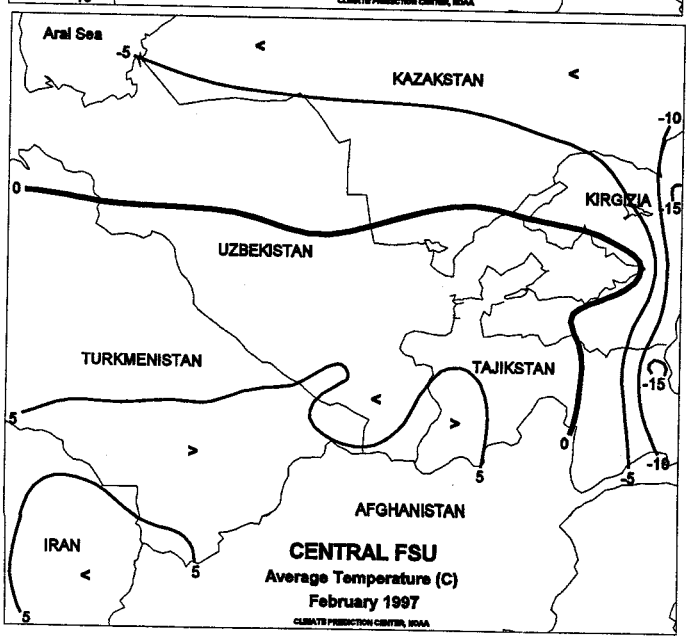
EASTERN ASIA: Rain covered the North China Plain, benefiting vegetative winter wheat.

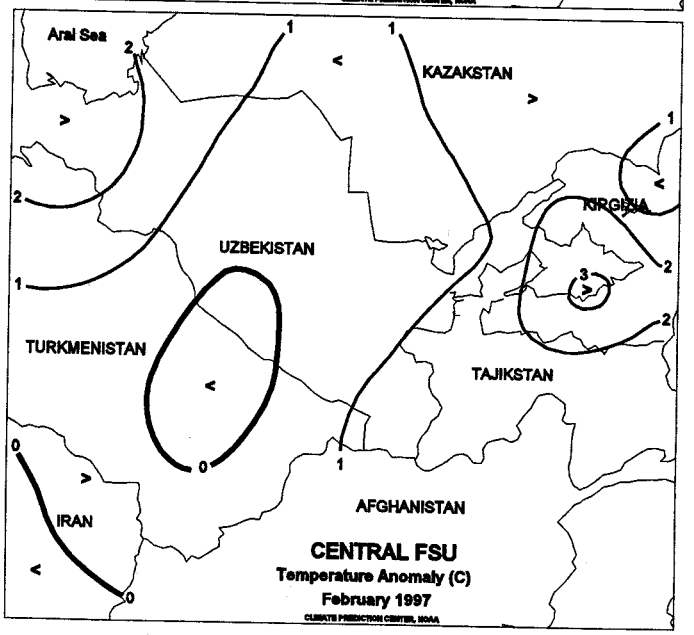
SOUTH AMERICA: Mostly dry weather continued to stress second-crop soybeans in Santa Fe, Argentina. Rain benefited soybeans elsewhere in Argentina. In southern Brazil, mostly dry weather favored soybean harvesting.

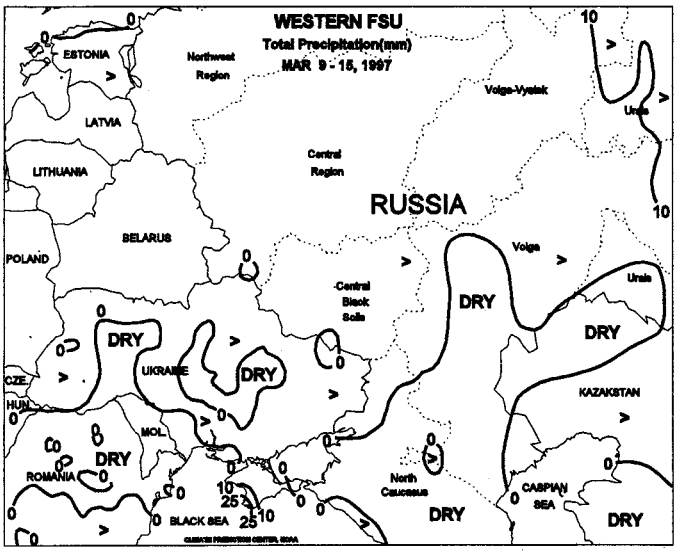
MEXICO: Unseasonable showers (40-70 mm, with isolated amounts greater than 200 mm) helped to increase reservoir levels in northeastern Mexico.





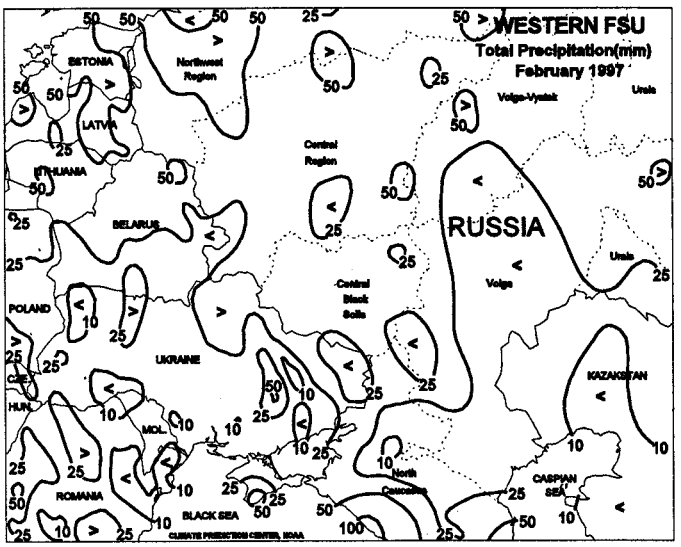


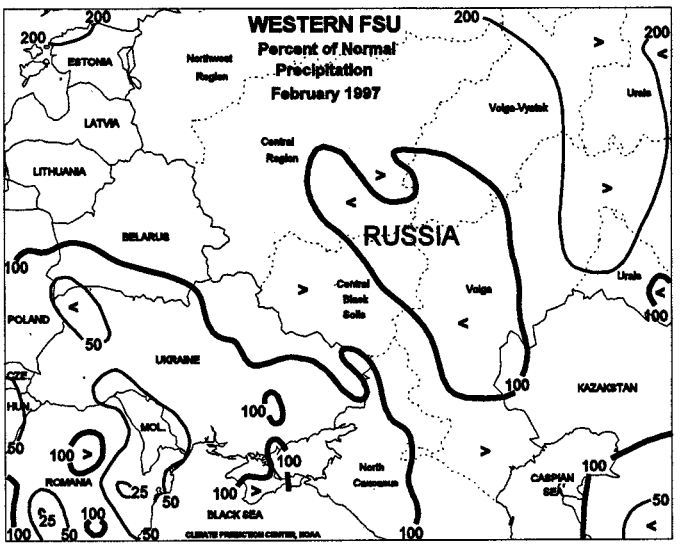


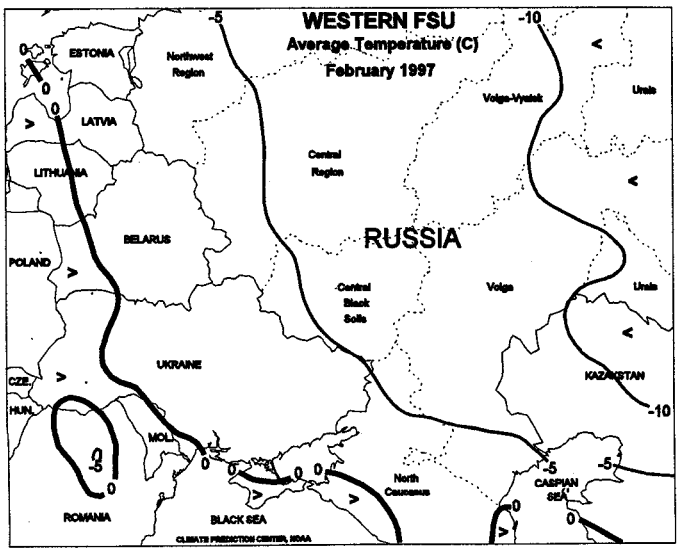


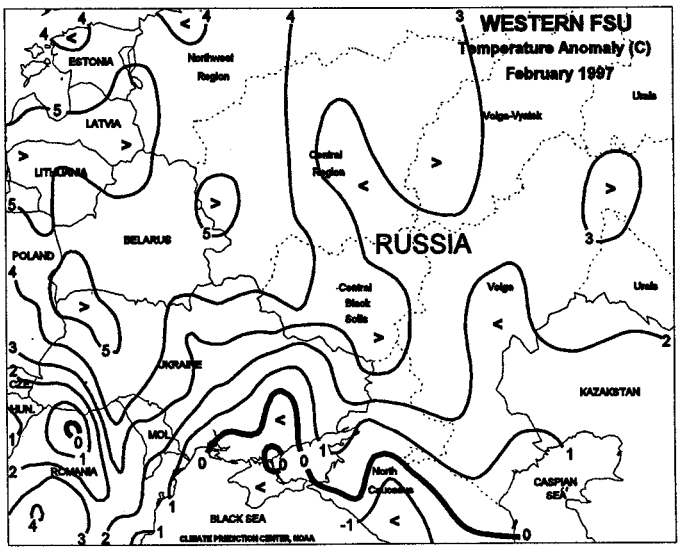
FSU-WESTERN

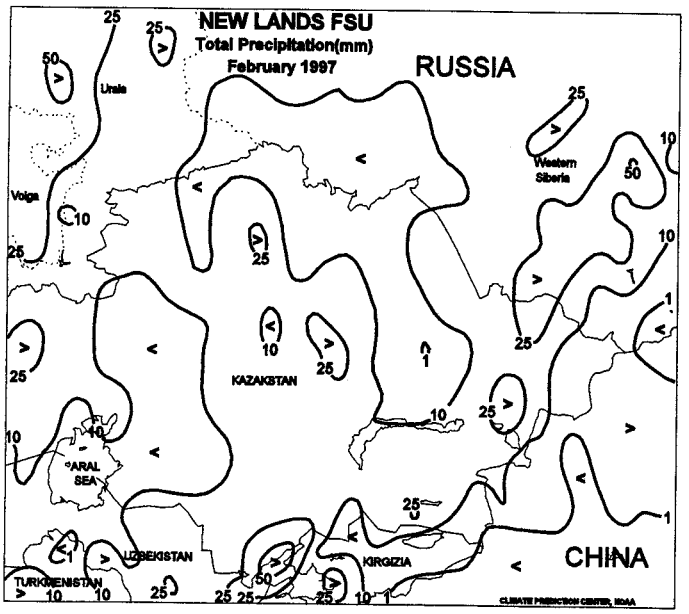
Unusually warm weather continued over the region. Weekly temperatures averaged 6 to 9 degrees C above normal over northern Russia, northern and western Ukraine, Belarus, and the Baltics. Temperatures in southern Ukraine and the North Caucasus region in Russia averaged 2 to 5 degrees C above normal. Snow cover continued to diminish. The continued mild weather in the western and southern Ukraine likely prompted greening of winter grains 2 to 3 weeks earlier than usual and warmed topsoils for spring grain planting. Little, if any, precipitation fell in most areas. In February, below-normal precipitation limited moisture recharge in most of Ukraine and parts of the North Caucasus and middle Volga Valley regions in Russia. Winter grain areas in Belarus, the Baltics, and northern Russia received above-normal precipitation. There were two episodes of unusually cold weather in February. The first episode occurred February 2-7 and the second occurred February 17-21. In both cases, snow cover provided sufficient protection from significant damage to winter grains. However, some localized damage may have occurred, especially in early February in Ukraine, where snow cover was variable. On February 22, a warming trend began spreading eastward over most areas, with temperatures rising to well above normal by month's end. The mild weather caused crops to lose cold hardiness and melted protective snow cover in western and southern areas. However, the lack of snow cover and several days of dry weather in late February provided a window of opportunity for early season fieldwork.

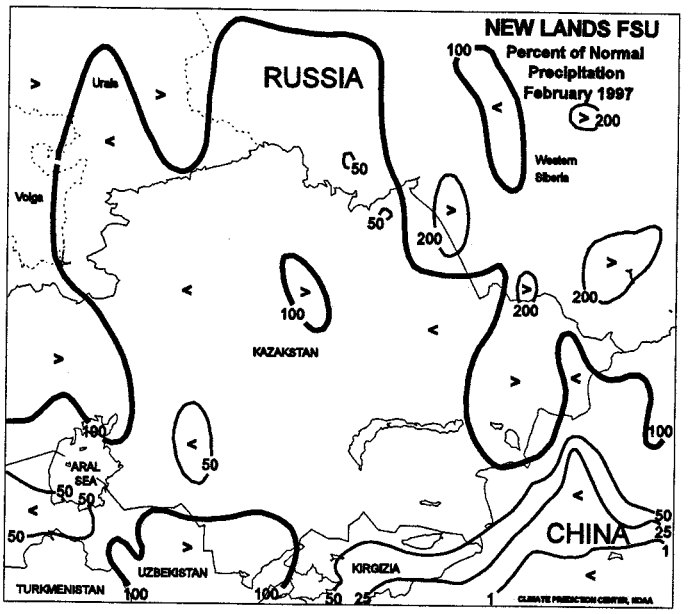


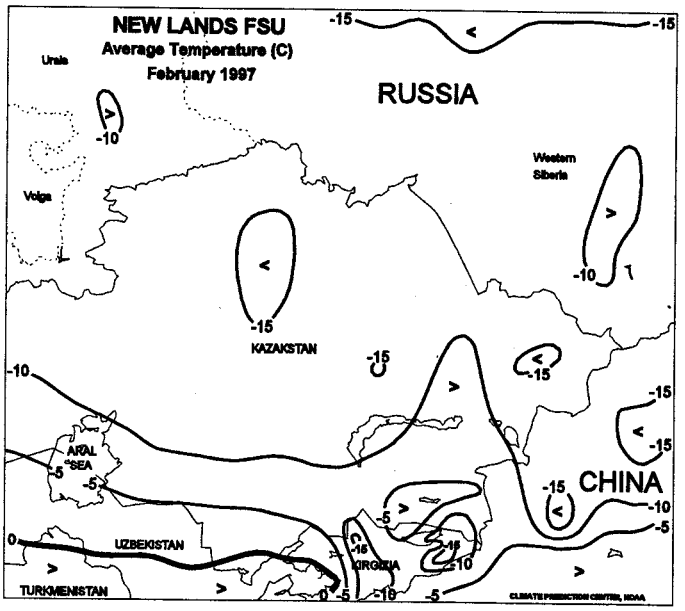


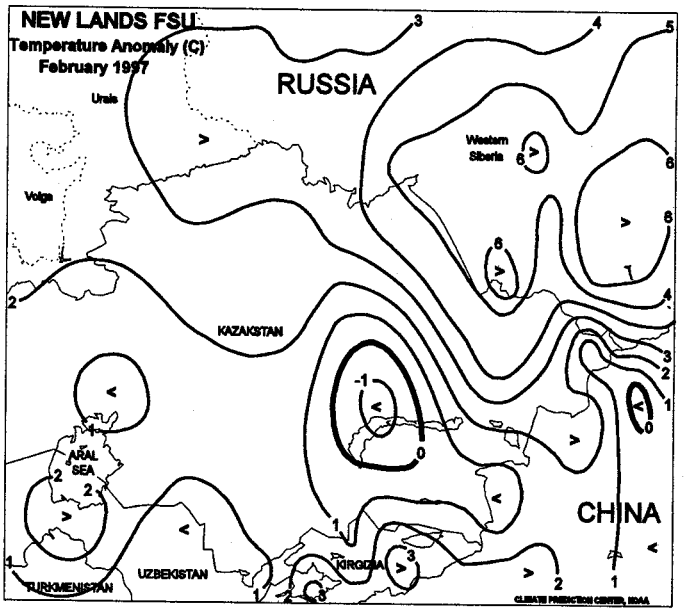


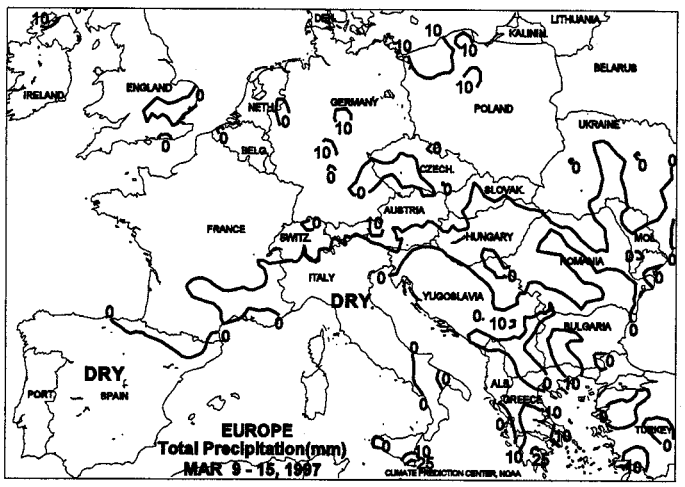



NEW LANDS FSU
Total Precipitation(mm)
February 1997
RUSSIA
Urals
Volga
Western Siberia
KAZAKSTAN
ARAL SEA
UZBEKISTAN
TURKMENISTAN
KIRGIZIA
CHINA
CLIMATE PREDICTION CENTER, NOAA


NEW LANDS FSU
Percent of Normal
Precipitation
February 1997
RUSSIA
Urals
Volga
Western Siberia
KAZAKSTAN
ARAL SEA
UZBEKISTAN
TURKMENISTAN
KIRGIZIA
CHINA
CLIMATE PREDICTION CENTER, NOAA

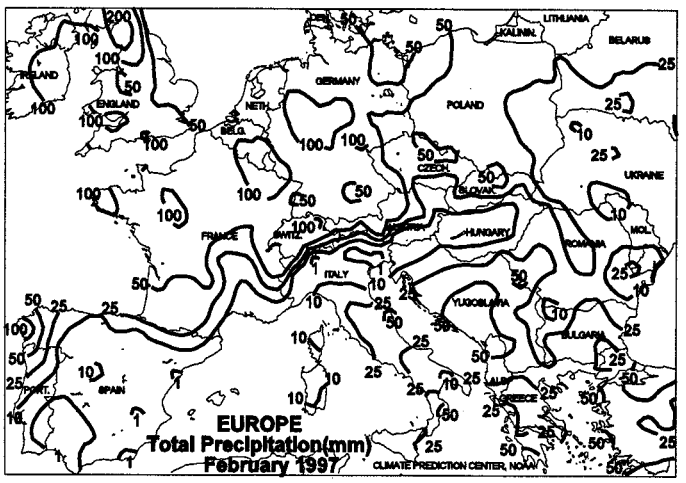

NEW LANDS FSU
Average Temperature (C)
February 1997
RUSSIA
Urals
Volga
Western Siberia
KAZAKSTAN
ARAL SEA
UZBEKISTAN
TURKMENISTAN
KIRGIZIA
CHINA
CLIMATE PREDICTION CENTER, NOAA

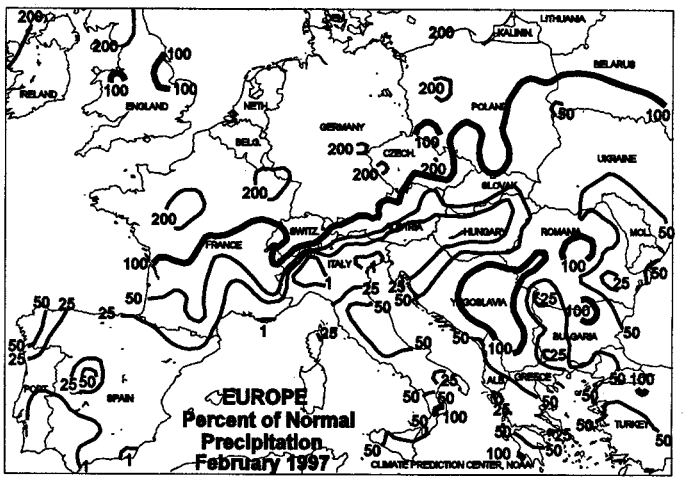

NEW LANDS FSU
Temperature Anomaly (C)
February 1997
RUSSIA
Urals
Volga
Western Siberia
KAZAKSTAN
ARAL SEA
UZBEKISTAN
TURKMENISTAN
KIRGIZIA
CHINA
CLIMATE PREDICTION CENTER, NOAA

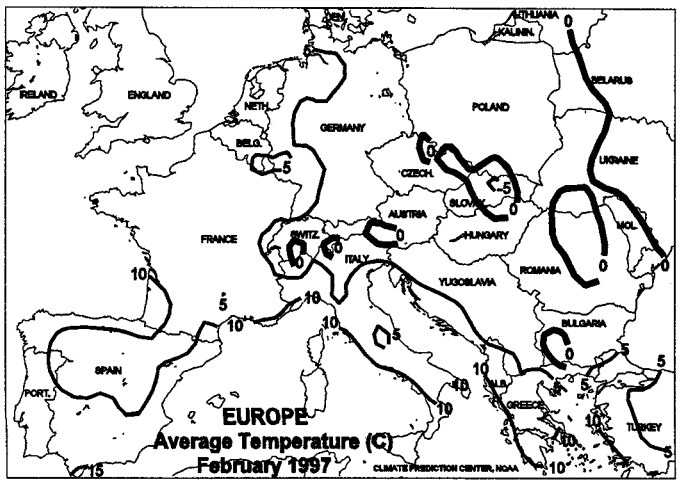


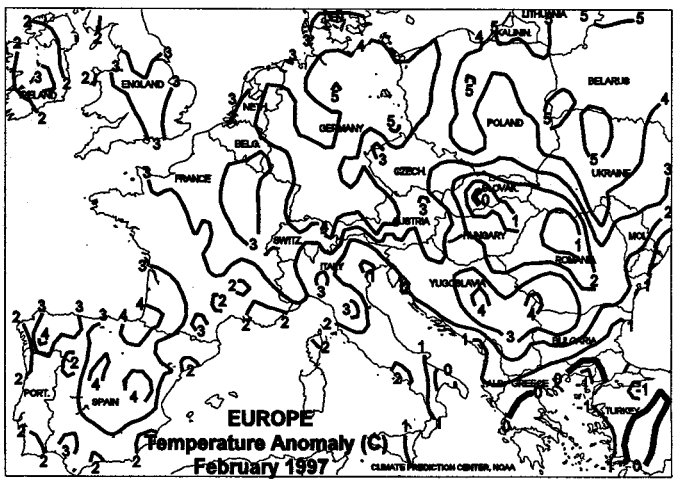
EUROPE

Unusually mild weather continued over most of the continent, promoting vegetative growth of winter grains. Weekly temperatures averaged 3 to 7 degrees C above normal in most areas. Mostly dry weather prevailed over the continent, although some light showers spread eastward across the north at week's end. Soil temperatures in the west and north were high enough to slow spring grain planting, which was helped by generally dry weather. In Spain, the seventh consecutive week of dryness increased stress on winter grains in or nearing the reproductive phase of development. In February, above-normal precipitation fell in the United Kingdom, the northern half of France, the Netherlands, Belgium, Germany, and northern Poland, reversing a below-normal precipitation pattern that had persisted since the early winter. The precipitation benefited winter grains and increased topsoil moisture for upcoming spring grain planting. Farther south, below-normal precipitation fell in Spain, extending eastward through Italy into southeastern Europe. Overall, February's dryness in Spain was initially beneficial, helping to ease excessive wetness, following heavy rains in December and January. However, the dryness in Spain has persisted into mid-March, and rain is needed soon to maintain favorable prospects for winter grains and spring grain planting. In southeastern Europe, the combination of unseasonable mild, dry weather allowed early-season fieldwork to progress. Unseasonably warm weather prevailed over most of Europe in February. Mild weather in the northwest prompted greening of wheat 1 to 3 weeks earlier than usual and caused crops in eastern Europe to lose winter hardiness.





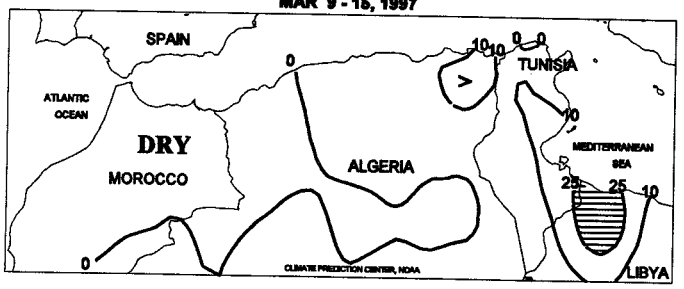




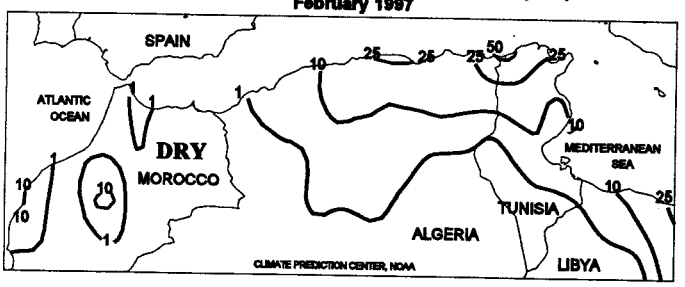
NORTHWESTERN AFRICA

The seventh consecutive week of dryness prevailed over winter grain areas in Morocco, lowering yield prospects for winter grains advancing through the reproductive phase of development. Farther east, scattered showers (less than 5 mm, with spotty amounts in excess of 10 mm) in eastern Algeria and Tunisia brought only temporary relief to drought-stressed crops. Weekly temperatures averaged 3 to 5 degrees C above normal in Morocco and 1 to 6 degrees C below normal in eastern Algeria and Tunisia. Furthermore, minimum temperatures on some nights fell below freezing (-1 to -3 degrees C) in the southernmost growing areas in Algeria and Tunisia. In February, mostly dry weather prevailed over winter grain areas in Morocco, depleting moisture supplies. Farther east, well-below-normal precipitation in Algeria and Tunisia maintained drought conditions that negatively affected winter wheat and barley development.

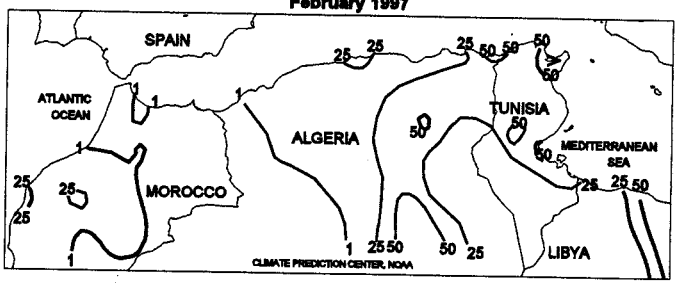
NORTHWEST AFRICA Total Precipitation (mm)
MAR 9 - 15, 1997



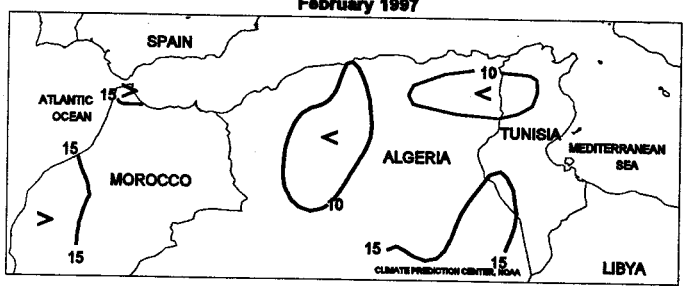
NORTHWEST AFRICA Total Precipitation (mm)
February 1997



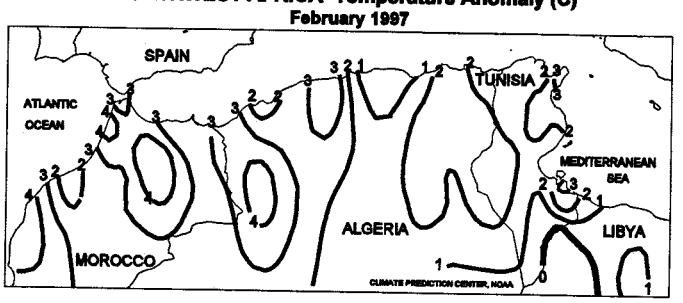
NORTHWEST AFRICA Percent of Normal Precipitation
February 1997

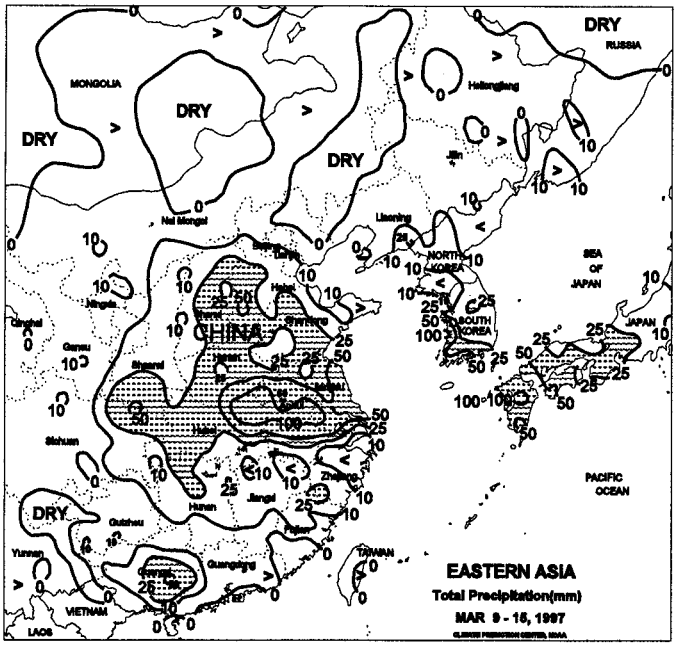


NORTHWEST AFRICA Average Temperature (C)
February 1997



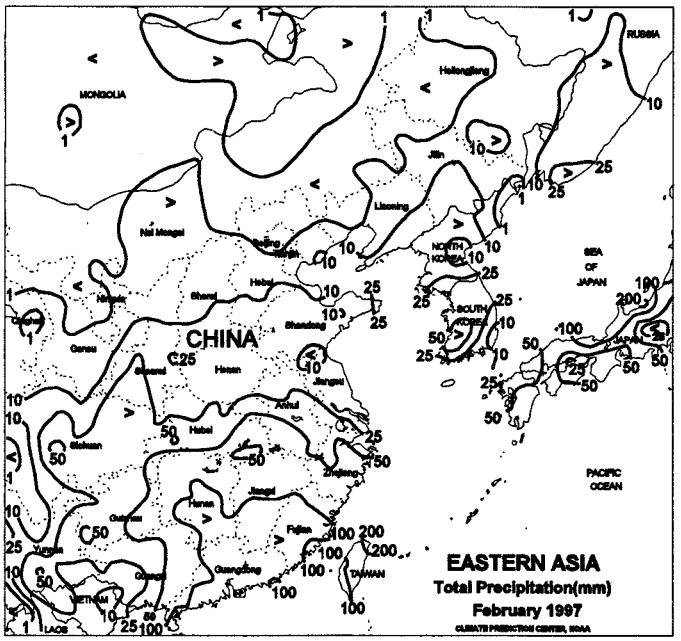
NORTHWEST AFRICA Temperature Anomaly (C)
February 1997

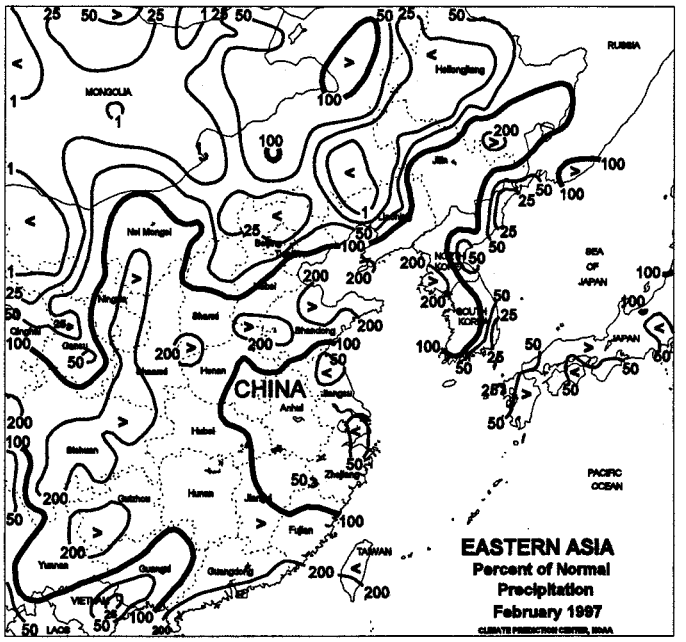


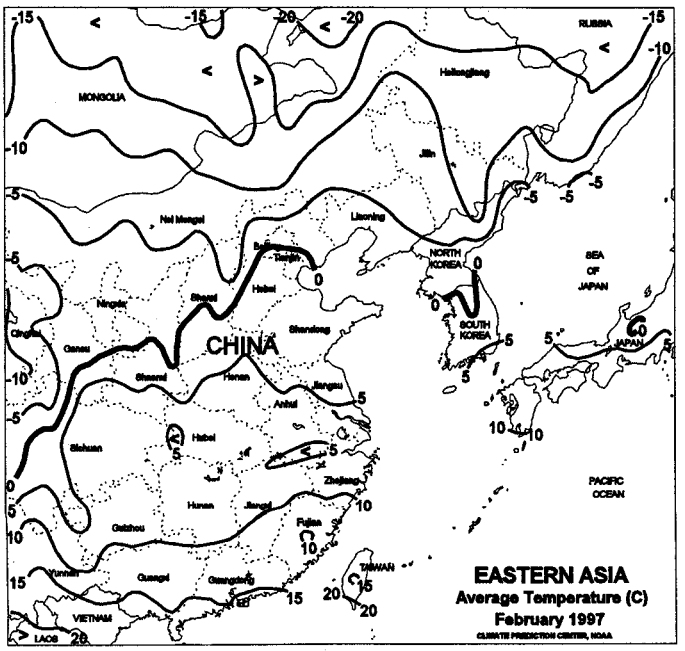


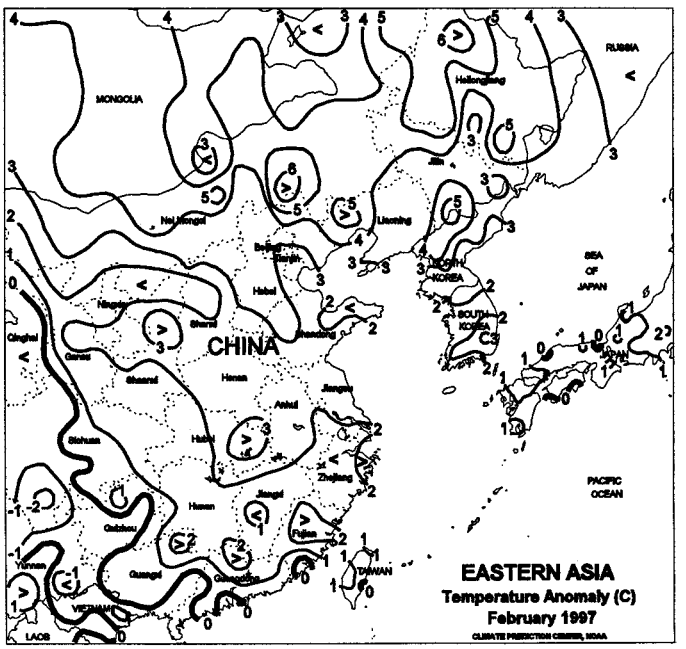
EASTERN ASIA

Widespread rain (10-35 mm) covered the North China Plain, benefiting vegetative winter wheat and increasing irrigation supplies. Heavier amounts (40-125 mm) were reported across the Yangtze Valley, slowing winter grain and oilseed maturation and harvesting. Temperatures averaged 7 to 10 degrees C above normal (maximum temperatures 28-32 degrees C) across southern China, favoring early double-crop transplanting. Light to moderate rain (10-25 mm) across the region did not significantly slow fieldwork. Despite warm weather (2-5 degrees C above normal) in Manchuria, average temperatures remained too cold (below 0 degrees C) for spring wheat planting to commence. Typically, when weekly average temperatures reach 5 degrees C or greater, the soils are warm enough for spring wheat germination. During February, above-normal precipitation increased moisture supplies for winter grains and summer crops in southern and central China and most of the North China Plain. East-central China reported slightly below-normal February rainfall (60-80 percent of normal). February temperatures averaged 1 to 3 degrees C above normal across most of China, causing winter wheat to break dormancy ahead of schedule. The warm weather also allowed field preparation to commence earlier than usual, especially across southern China.



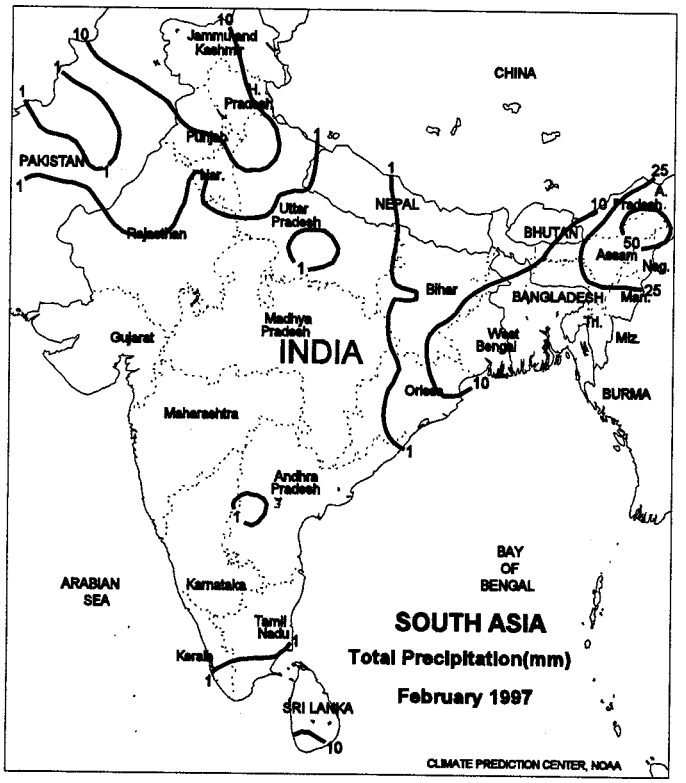


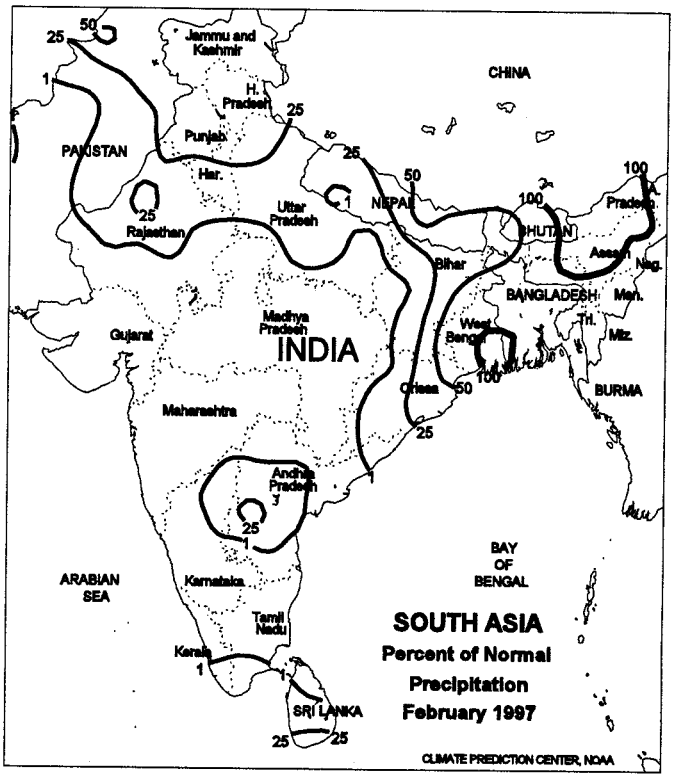


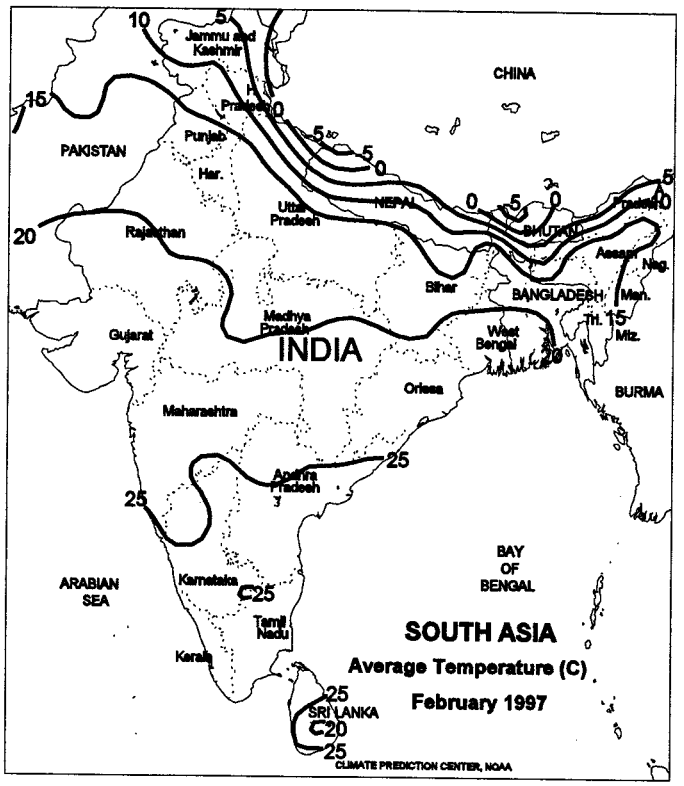


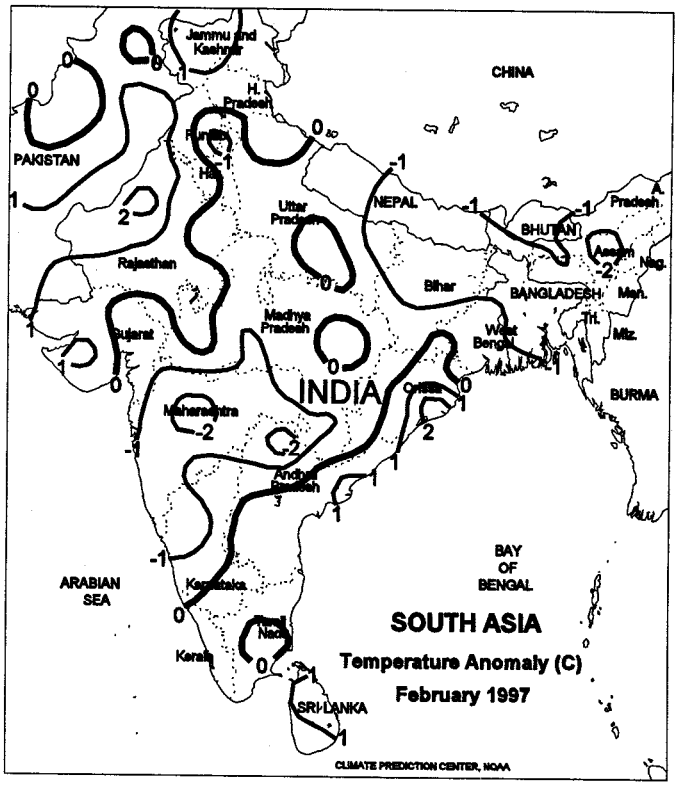
SOUTH ASIA

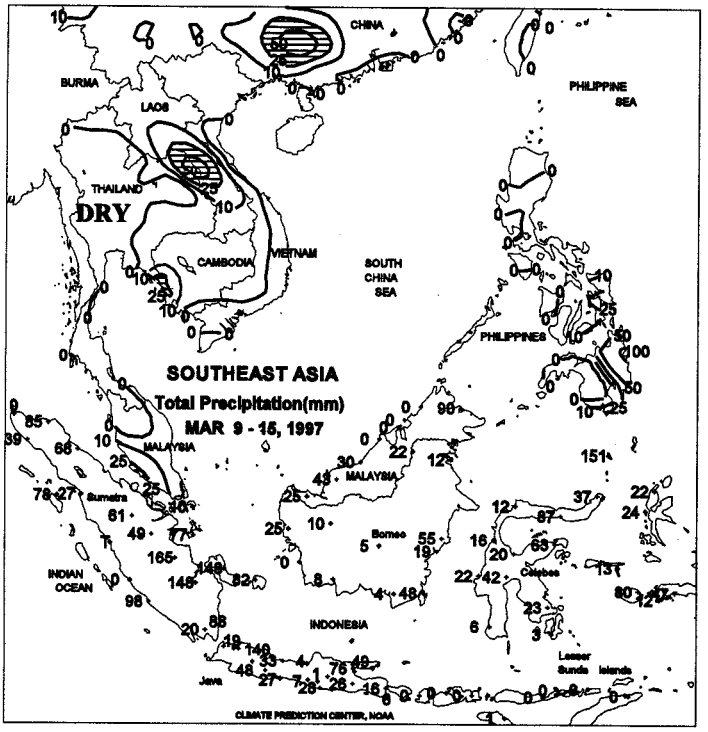
During February, rainfall was below normal over the primary winter grain and oilseed areas. Approximately 10 to 20 percent of winter crops are rainfed and experienced below-normal rainfall for reproduction during January and February.





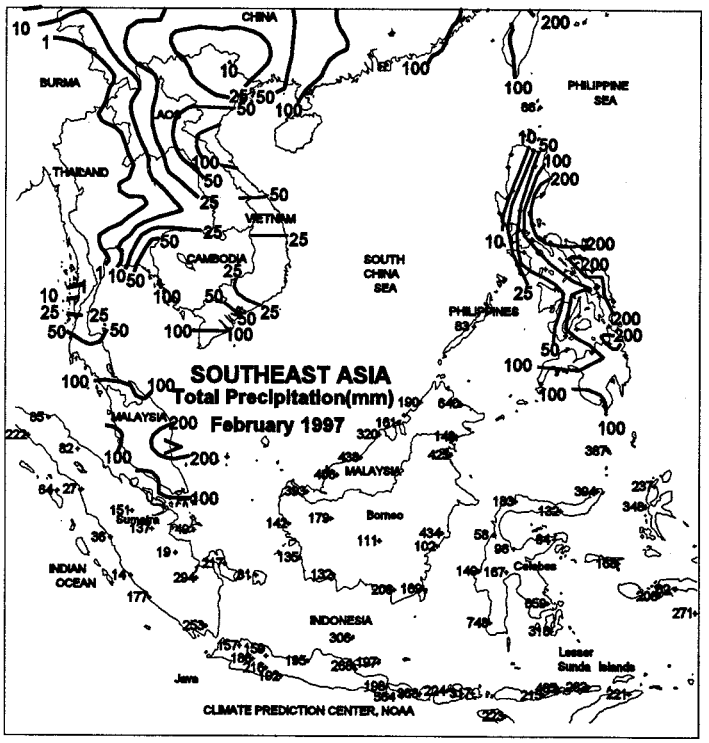


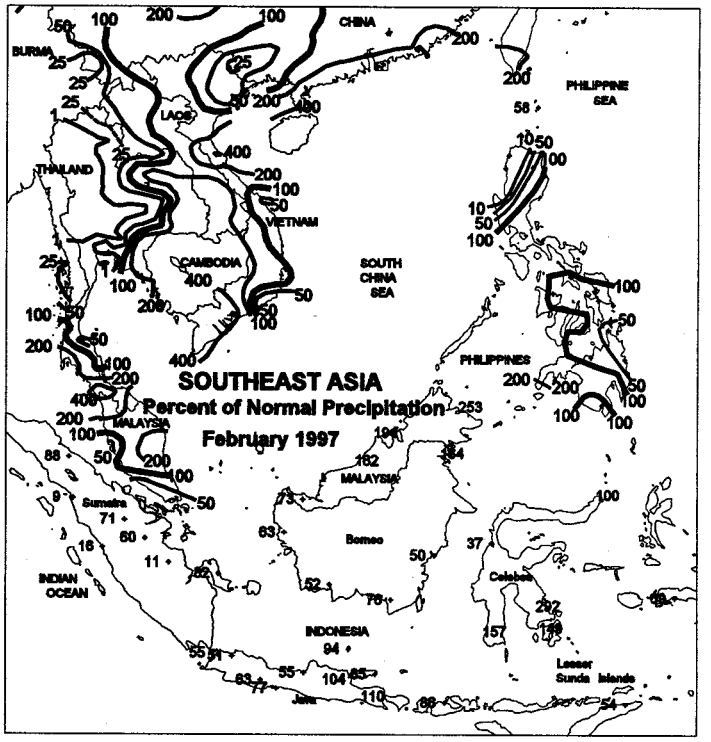


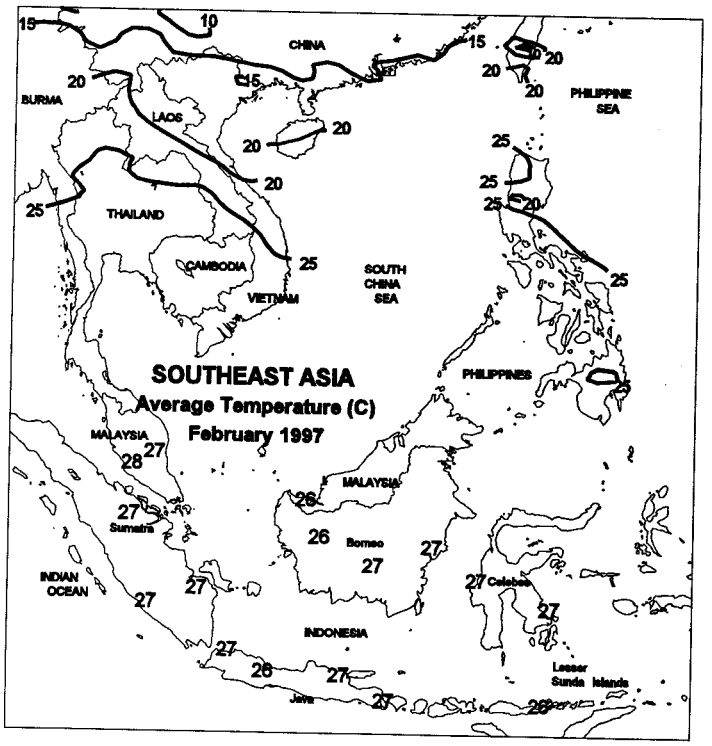


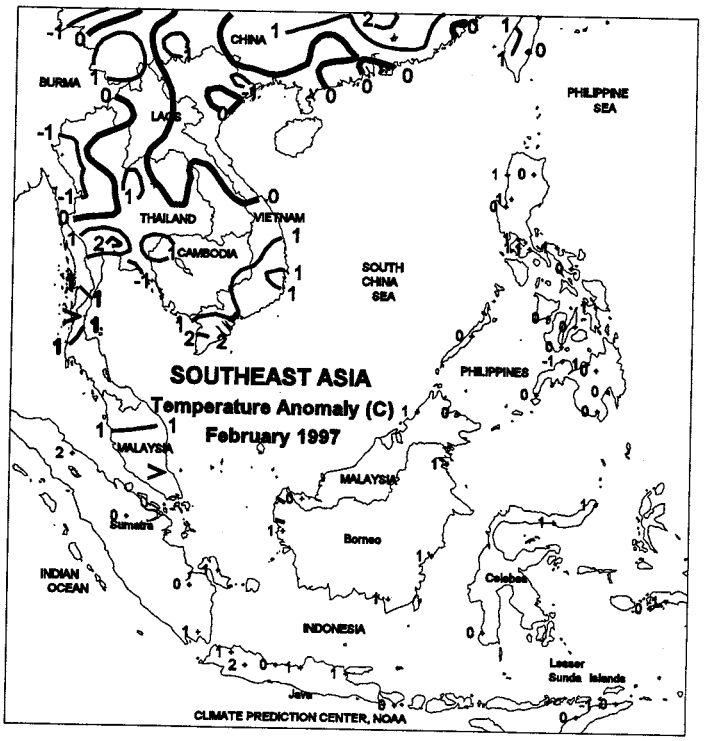
SOUTHEAST ASIA

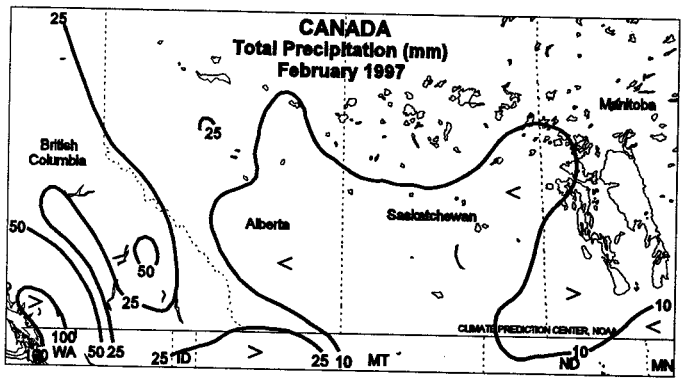
Light to moderate showers (10-50 mm, with isolated amounts greater than 100 mm) covered Java, slowing main-season rice harvesting. Dry weather prevailed across Thailand, where at least light showers are expected during March. Temperatures averaged 1 to 2 degrees C above normal in Thailand, increasing irrigation demands of secondary crops. The rainy season (defined by widespread moderate showers) starts by mid-April across Thailand. Drier weather (less than 15 mm) prevailed across the eastern Philippines, easing wetness from the previous week. During February, near- to slightly below-normal rainfall across Java favored main-season rice maturation and harvesting. Above-normal February rainfall eased January dryness across peninsular Thailand and Malaysia. Near- to above-normal monthly rainfall slowed second-season crop harvesting across the eastern Philippines.

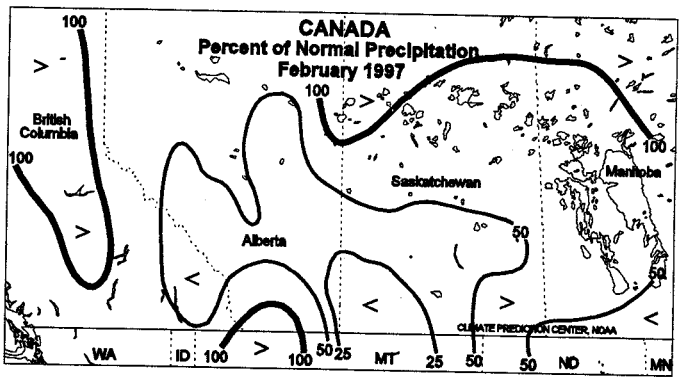


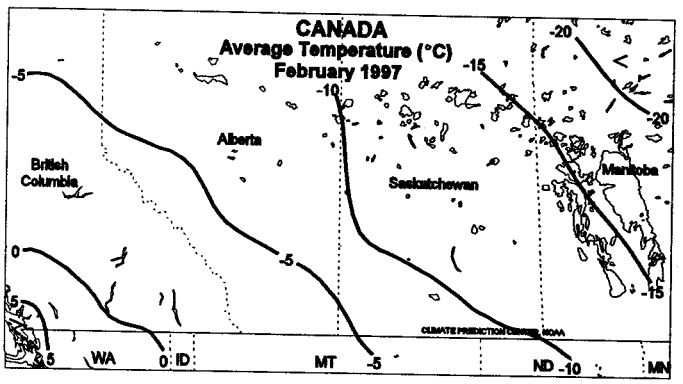


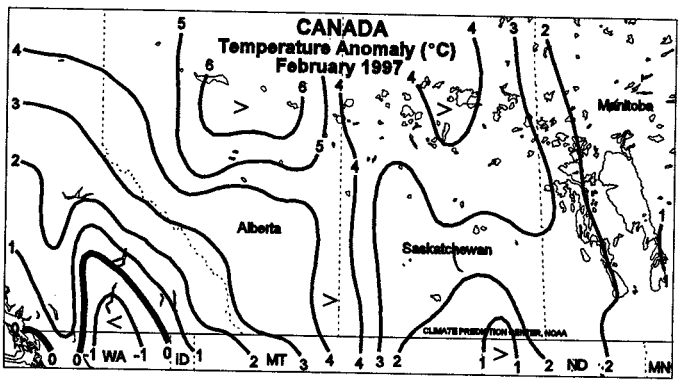

SOUTHEAST ASIA
Average Temperature (C)
February 1997
CHINA
BURMA
LAOS
THAILAND
CAMBODIA
VIETNAM
SOUTH CHINA SEA
PHILIPPINE SEA
PHILIPPINES
MALAYSIA
Sumatra
Borneo
Celebes
INDIAN OCEAN
INDONESIA
Lesser Sunda Islands
Java

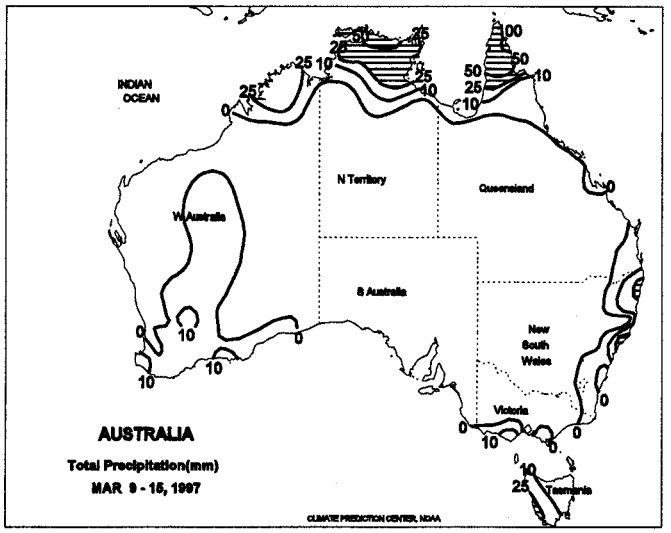

SOUTHEAST ASIA
Temperature Anomaly (C)
February 1997
CHINA
BURMA
LAOS
THAILAND
VIETNAM
CAMBODIA
SOUTH CHINA SEA
PHILIPPINE SEA
PHILIPPINES
MALAYSIA
Sumatra
Borneo
Celebes
INDIAN OCEAN
INDONESIA
Lesser Sunda Islands
Java
CLIMATE PREDICTION CENTER, NOAA


CANADA
Total Precipitation (mm)
February 1997
British Columbia
Alberta
Saskatchewan
Manitoba
WA
ID
MT
ND
MN
CLIMATE PREDICTION CENTER, NOAA


CANADA
Percent of Normal Precipitation
February 1997
British Columbia
Alberta
Saskatchewan
Manitoba
WA
ID
MT
ND
MN
CLIMATE PREDICTION CENTER, NOAA

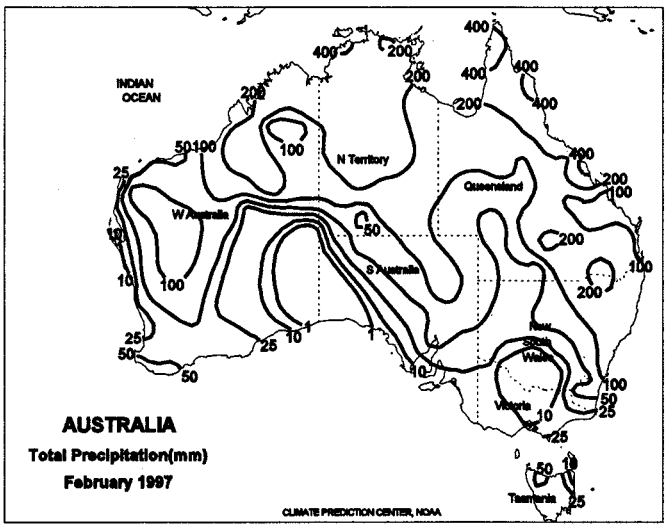

CANADA
Average Temperature (°C)
February 1997
British Columbia
Alberta
Saskatchewan
Manitoba
WA
ID
MT
ND
MN
CLIMATE PREDICTION CENTER, NOAA

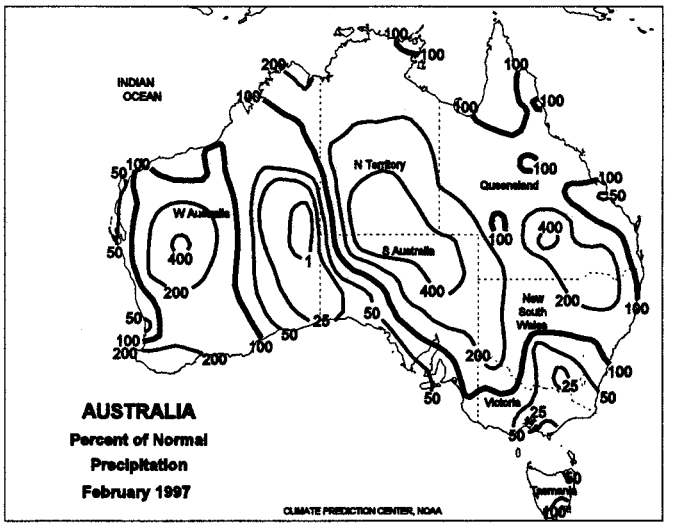

CANADA
Temperature Anomaly (°C)
February 1997
Alberta
Saskatchewan
Manitoba
WA
ID
MT
ND
MN
CLIMATE PREDICTION CENTER, NOAA

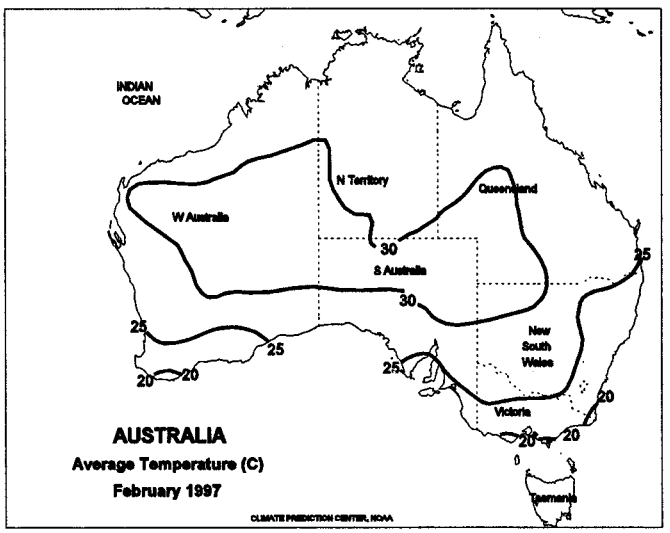


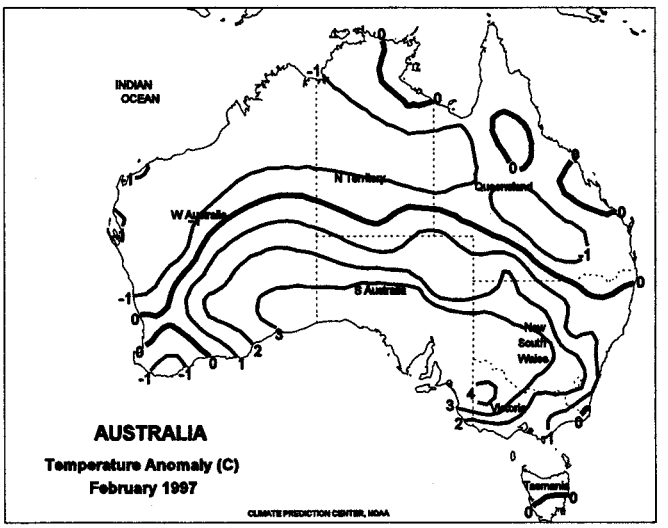
AUSTRALIA

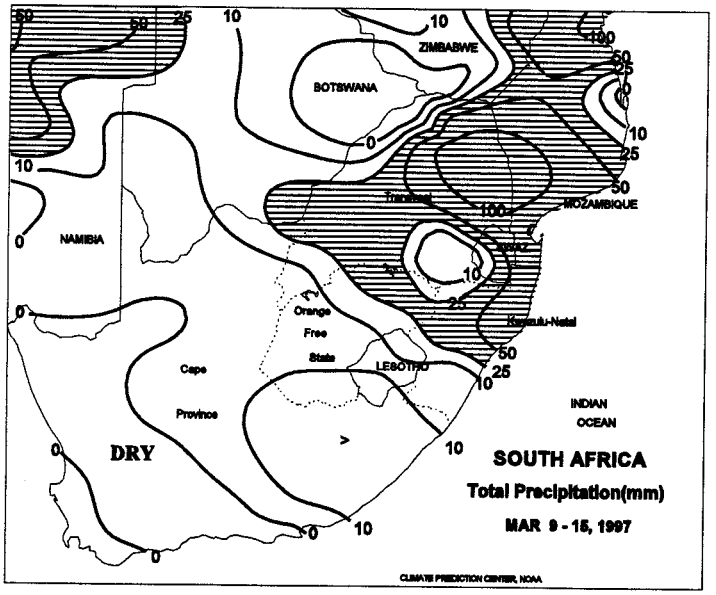
Dry weather dominated eastern Australia, benefiting maturing cotton and sorghum. Temperatures averaged 2 to 4 degrees C below normal, however, slowing the drying process. During February, periods of widespread, locally heavy rain kept cotton and sorghum unfavorably wet during later stages of development. Some local flooding was also likely. However, the moisture was overall beneficial of pasture and coastal sugarcane. February rainfall was also above normal in Western Australia, due to mid-month showers related to the remnants of a tropical cyclone. In New Zealand, light to moderate showers (5-27 mm) were scattered throughout the main pasture areas following last week's soaking rains.





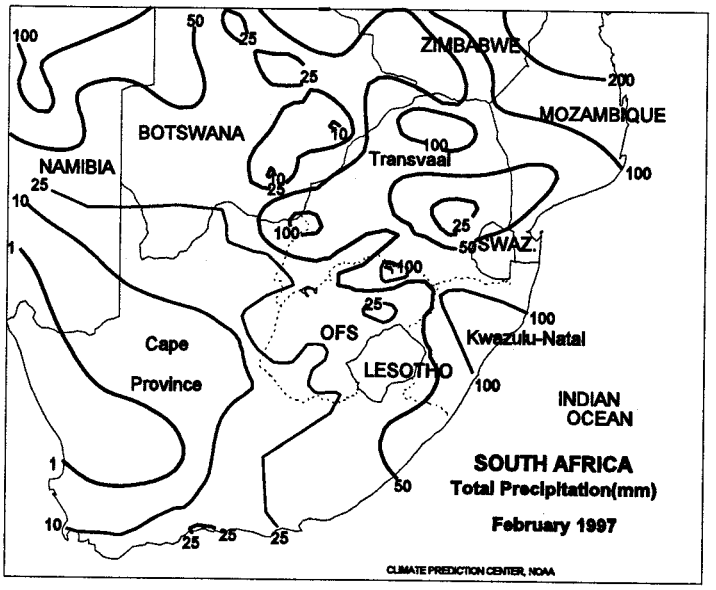


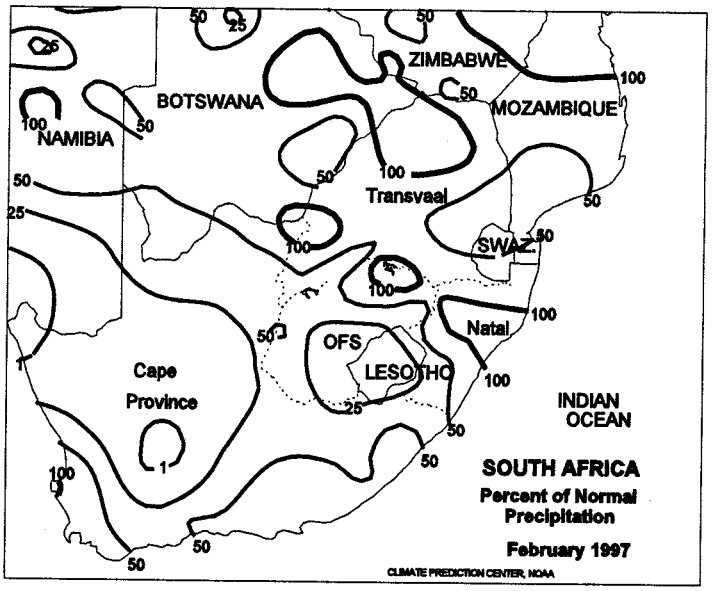


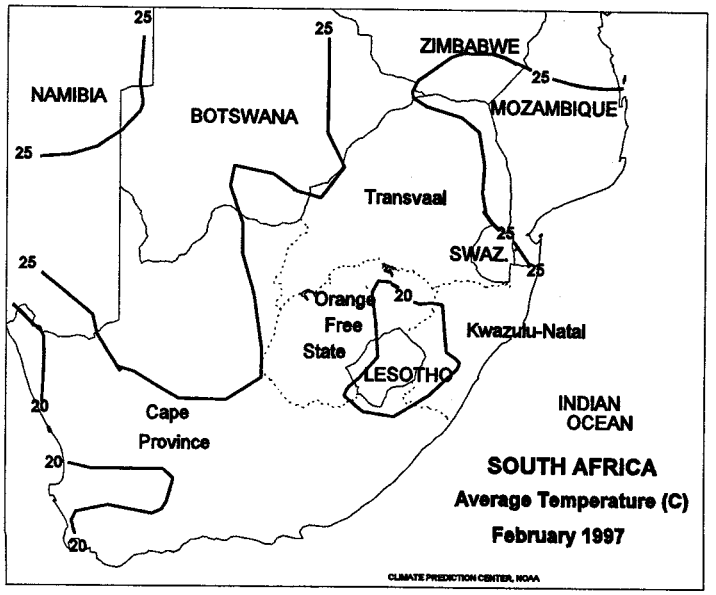


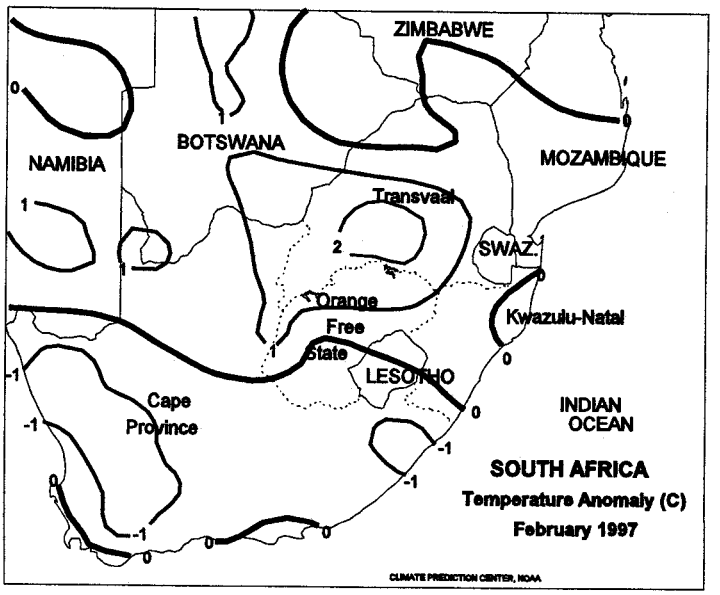
SOUTH AFRICA

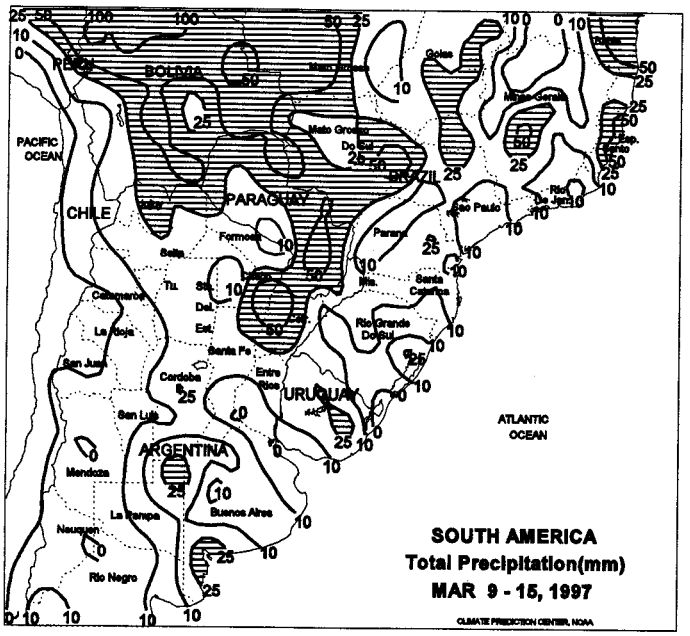
Moderate rain (19-47 mm) continued over a broad section of the northern and central corn belt, keeping filling corn very wet following last week's heavy showers. Rainfall was lighter (10 mm or less) in eastern and southwestern corn areas. Temperatures were seasonable (highs ranging from 33 degrees C in the west to 27 degrees C in the east), favoring development of immature corn. In February, drier- and warmer-than-normal conditions across the corn belt resulted in some declines in yield potential, as most crops experienced some degree of stress during reproduction. However, long-term moisture reserves had been favorable, mitigating the impact of the untimely drying trend. February rainfall averaged near to below normal in sugarcane areas of Kwazulu-Natal.





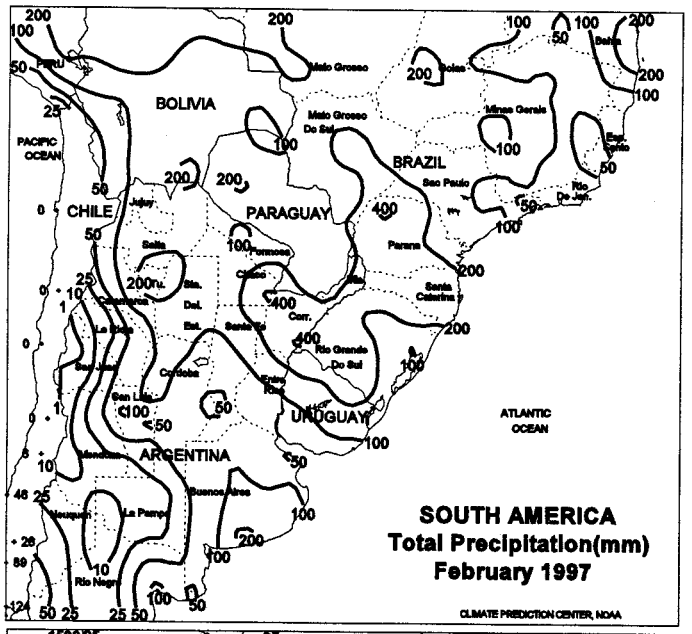


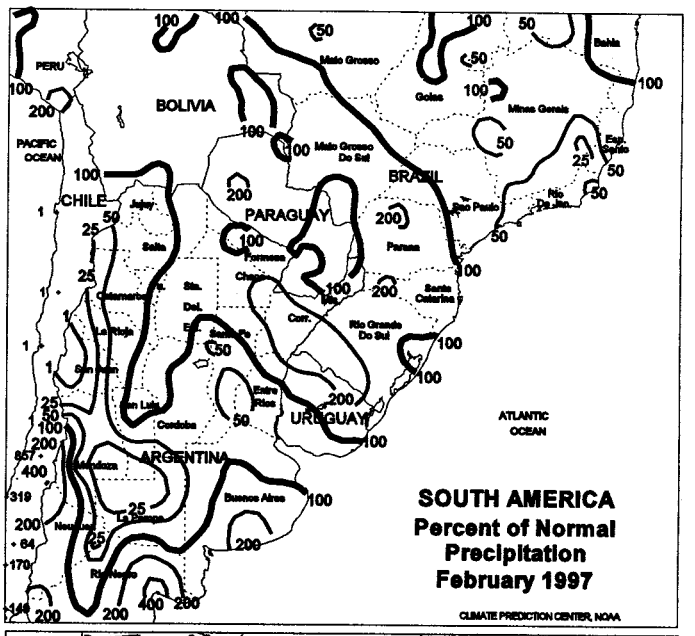


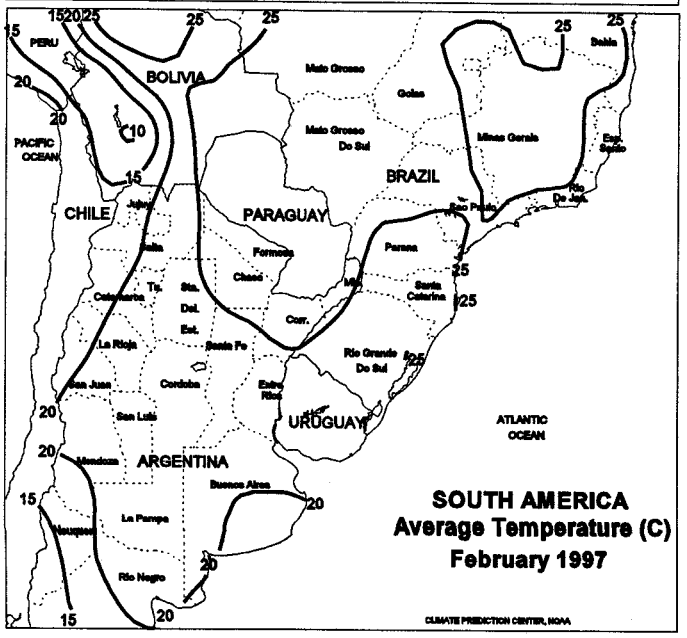


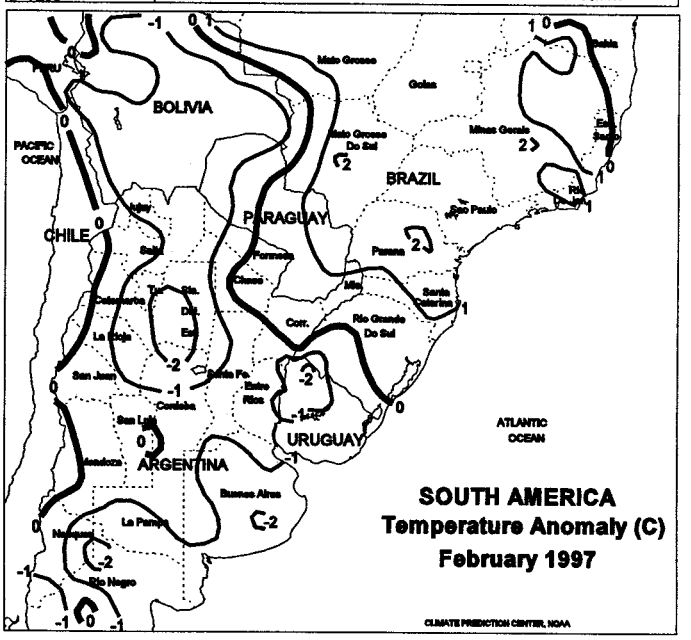
SOUTH AMERICA

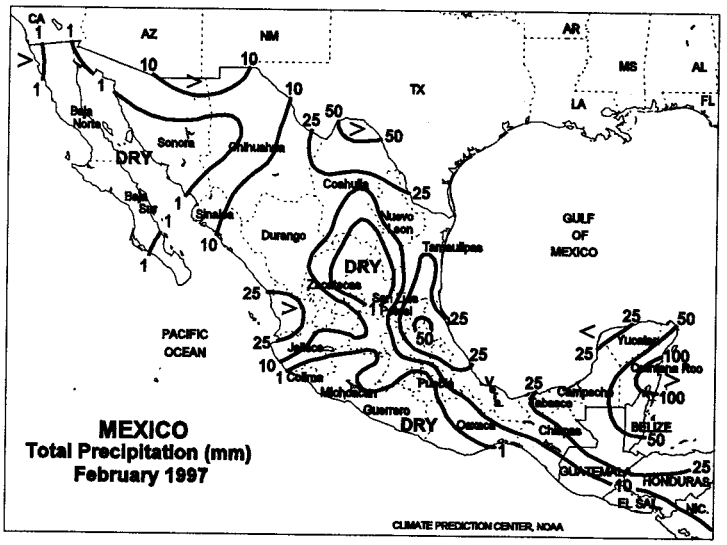
In central Argentina, mostly dry weather continued to stress second-crop soybeans across southern Santa Fe. However, La Pampa, northern Buenos Aires, and portions of southern Cordoba received moderate rain (15-40 mm, with isolated amounts greater than 70 mm), easing a developing drying trend. Temperatures averaged 1 to 3 degrees C above normal (maximum temperatures ranging from 30-32 degrees C) across southern Santa Fe, further reducing soil moisture. Moderate showers (30-60 mm) slowed cotton harvesting in northern Argentina and southern Paraguay. In southern Brazil, light, scattered showers (10-40 mm) allowed soybean harvesting to progress across Parana and Mato Grosso do Sul. Heavier showers (50-80 mm) slowed fieldwork in Mato Grosso and Goias. Light rain (5-15 mm) favored filling soybeans in Rio Grande do Sul. During February, southern Santa Fe, Argentina received only 30 to 45 percent of normal rainfall. Rainfall averaged near to above normal across central and southern Buenos Aires. In southern Brazil, the major soybean growing areas received above-normal rainfall, favoring filling soybeans. In Mato Grosso and Goias, near- to below-normal monthly rainfall favored early-season soybean harvesting.

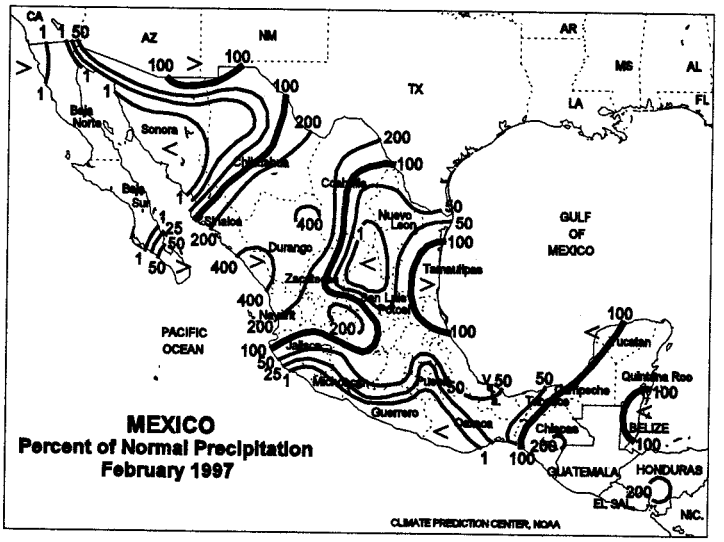


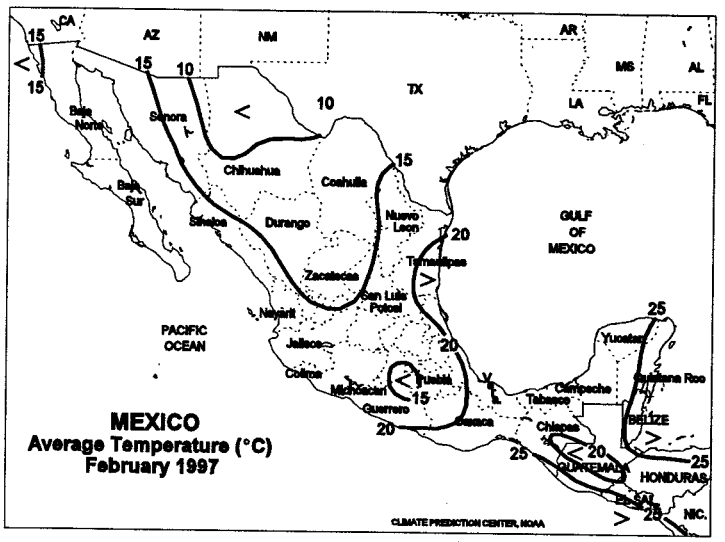


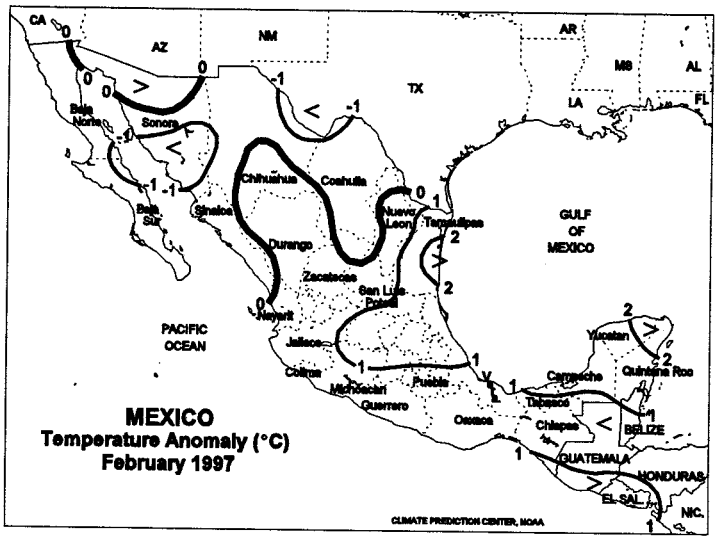





MEXICO
Total Precipitation (mm)
February 1997
CLIMATE PREDICTION CENTER, NOAA
DRY
DRY
DRY
PACIFIC OCEAN
GULF OF MEXICO
CA
AZ
NM
TX
AR
MS
AL
LA
FL
Baja Norte
Sonora
Chihuahua
Baja Sur
Sinaloa
Durango
Coahuila
Nuevo Leon
Tamaulipas
Zacatecas
San Luis Potosi
Nayarit
Jalisco
Colima
Michoacan
Guerrero
Puebla
Oaxaca
Tabasco
Campeche
Yucatan
Quintana Roo
Chiapas
BELIZE
GUATEMALA
HONDURAS
EL SAL.
NIC.


MEXICO
Percent of Normal Precipitation
February 1997
CLIMATE PREDICTION CENTER, NOAA
PACIFIC OCEAN
GULF OF MEXICO
CA
AZ
NM
TX
AR
MS
AL
LA
FL
Baja Norte
Sonora
Chihuahua
Baja Sur
Sinaloa
Durango
Coahuila
Nuevo Leon
Tamaulipas
Zacatecas
San Luis Potosi
Nayarit
Jalisco
Colima
Michoacan
Guerrero
Puebla
Oaxaca
Tabasco
Campeche
Yucatan
Quintana Roo
Chiapas
BELIZE
GUATEMALA
HONDURAS
EL SAL.
NIC.


MEXICO
Average Temperature (°C)
February 1997
CLIMATE PREDICTION CENTER, NOAA
PACIFIC OCEAN
GULF OF MEXICO
CA
AZ
NM
TX
AR
MS
AL
LA
FL
Baja Norte
Sonora
Chihuahua
Baja Sur
Sinaloa
Durango
Coahuila
Nuevo Leon
Tamaulipas
Zacatecas
San Luis Potosi
Nayarit
Jalisco
Colima
Michoacan
Guerrero
Puebla
Oaxaca
Tabasco
Campeche
Yucatan
Quintana Roo
Chiapas
BELIZE
GUATEMALA
HONDURAS
EL SAL.
NIC.

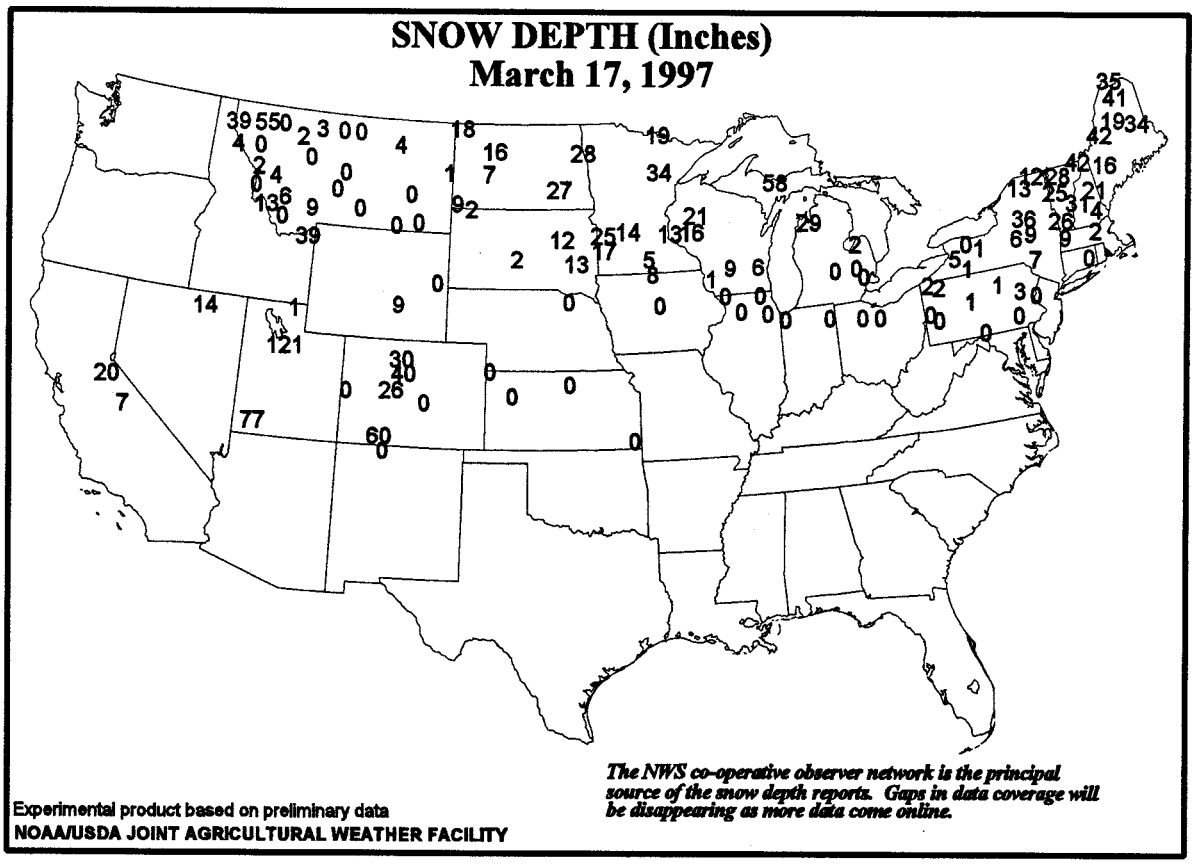

MEXICO
Temperature Anomaly (°C)
February 1997
CLIMATE PREDICTION CENTER, NOAA
PACIFIC OCEAN
GULF OF MEXICO
CA
AZ
NM
TX
AR
MS
AL
LA
FL
Baja Norte
Sonora
Chihuahua
Baja Sur
Sinaloa
Durango
Coahuila
Nuevo Leon
Tamaulipas
Zacatecas
San Luis Potosi
Nayarit
Jalisco
Colima
Michoacan
Guerrero
Puebla
Oaxaca
Tabasco
Campeche
Yucatan
Quintana Roo
Chiapas
BELIZE
GUATEMALA
HONDURAS
EL SAL.
NIC.

The *Weekly Weather and Crop Bulletin* is published weekly and jointly prepared by the U.S. Department of Commerce, National Oceanic and Atmospheric Administration (NOAA) and the U.S. Department of Agriculture (USDA). Publication began in 1872 as the *Weekly Weather Chronicle*. It is issued under general authority of the Act of January 12, 1895 (44-USC 213), 53rd Congress, 3rd Session. NOAA is responsible for managing, printing, and distributing the bulletin. The contents may be reprinted freely, with proper credit.

Annual subscriptions: domestic first class **$45**, foreign **$55** (in U.S. funds by international money order or check drawn on U.S. bank) payable to **U.S. Department of Commerce, NOAA.** POSTMASTER: Send address changes to: **Climate Prediction Center, W/NP52, Attn: *Weekly Weather and Crop Bulletin*, NOAA/NWS/NCEP, NOAA Science Center, Room 605, 5200 Auth Road, Camp Springs, MD 20746.** Order subscriptions from the office and address listed above. First-class postage paid at Washington, DC, and other mailing offices. Correspondence to the meteorologists should be directed to: **Weekly Weather and Crop Bulletin, NOAA/USDA, Joint Agricultural Weather Facility, USDA South Building, Room 5844, Washington, DC 20250.** Internet URL: **http://www.usda.gov/oce/waob/jawf**; E-mail address: ***wwcb@jawfsrv.wwb.noaa.gov***

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Weather Service/Climate Prediction Center
Managing Editor ..... ***Douglas Le Comte*** (202) 720-7919
fax (202) 720-1455
Editor ..... ***Brad Rippey*** (202) 720-1444
Meteorologists .... ***David Secora, Jeff Savadel, Brian Morris***
Special Requests ..... (202) 720-7917
Subscriptions ..... ***John Kopman*** (301) 763-8227, ext. 7534
fax (301) 763-8395

U.S. DEPARTMENT OF AGRICULTURE
Economic Research Service
E.R.S. Editor ..... ***Sharon Lee***
National Agricultural Statistics Service
Agricultural Statistician ..... ***Greg Preston*** (202) 720-7621
State Summaries Editor ..... ***Klara Haskins*** (202) 720-8033
World Agricultural Outlook Board
Agricultural Weather Analysts ..... ***Ray Motha***
..... ***Tom Puterbaugh, Mark Brusberg, Bob Stefanski***
Secretary ..... ***Teressa Davis*** (202) 720-9807



Climate Prediction Center, W/NP52
Attn: *Weekly Weather & Crop Bulletin*
NOAA/NWS/NCEP
NOAA Science Center, Room 605
5200 Auth Road
Camp Springs, MD 20746

WEEKLY NEWS BULLETIN
FIRST CLASS

FIRST CLASS MAIL
POSTAGE & FEES PAID
NOAA
PERMIT NO. G-19

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, $300