

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

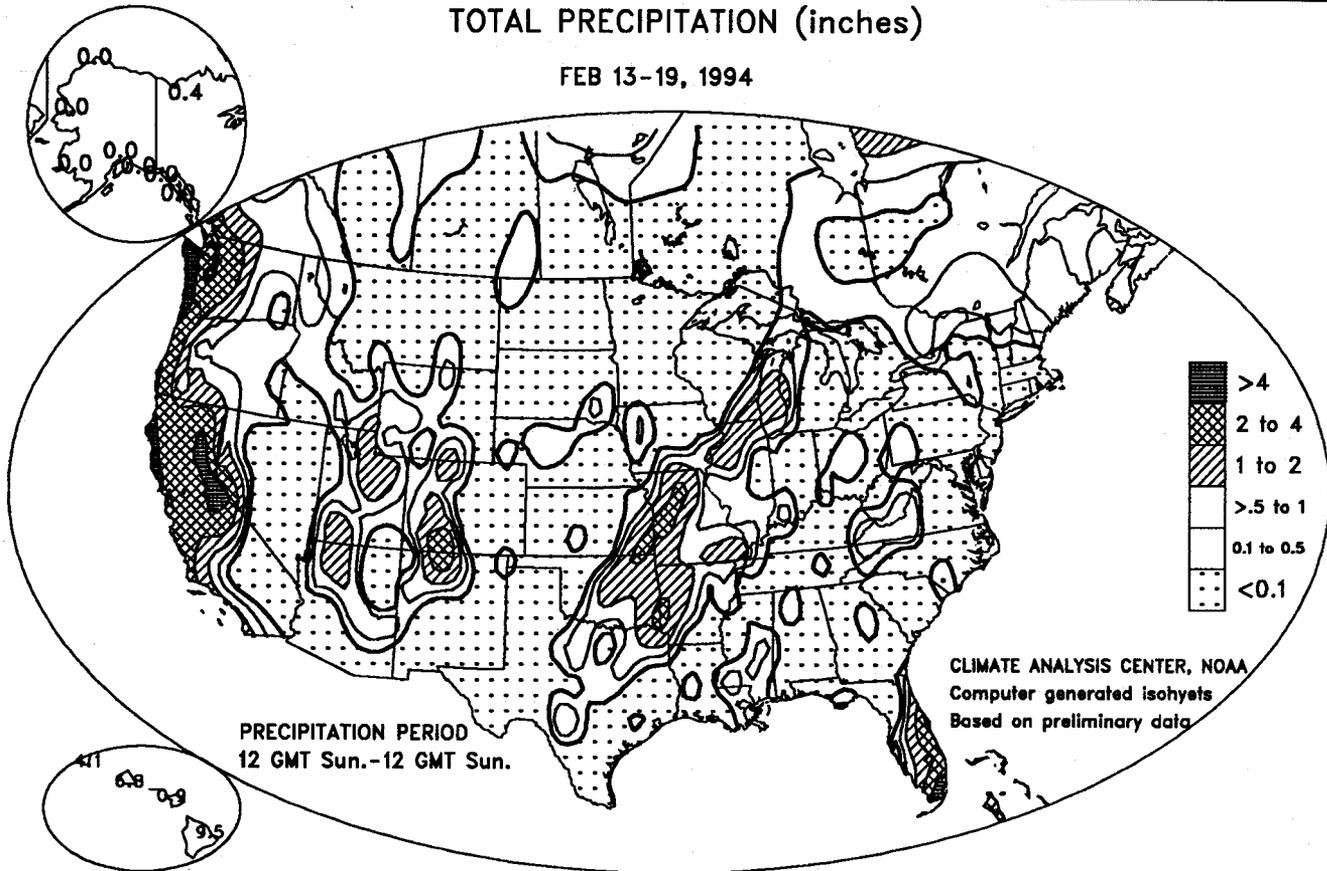
Volume 81, No. 8

Washington, D.C.

February 23, 1994

TOTAL PRECIPITATION (inches)

FEB 13-19, 1994



HIGHLIGHTS

February 13 - 19, 1994

Strong storms lashed coastal and mountain areas of the West with heavy precipitation and high winds. Warm air surged through the remainder of the Nation, significantly reducing snow cover from the Midwest to the Northeast, but also causing snow-melt and ice-jam flooding. Early in the week, one storm slammed into the Pacific Northwest, while another exited New England. Snow cover at Mt. Baker Lodge, WA increased 38 inches to 162 inches; Houlton, ME received 7 inches, reaching a 46-inch depth. Although recovery from the previous week's ice storm was facilitated by warm weather, some areas from southern Arkansas to Delaware remained without electricity. In Hawaii, torrential rains continued to cause local flooding. Honolulu, HI logged nearly 7 inches for the week, more than half of which fell on Monday. By midweek, the Hawaiian moisture was entrained

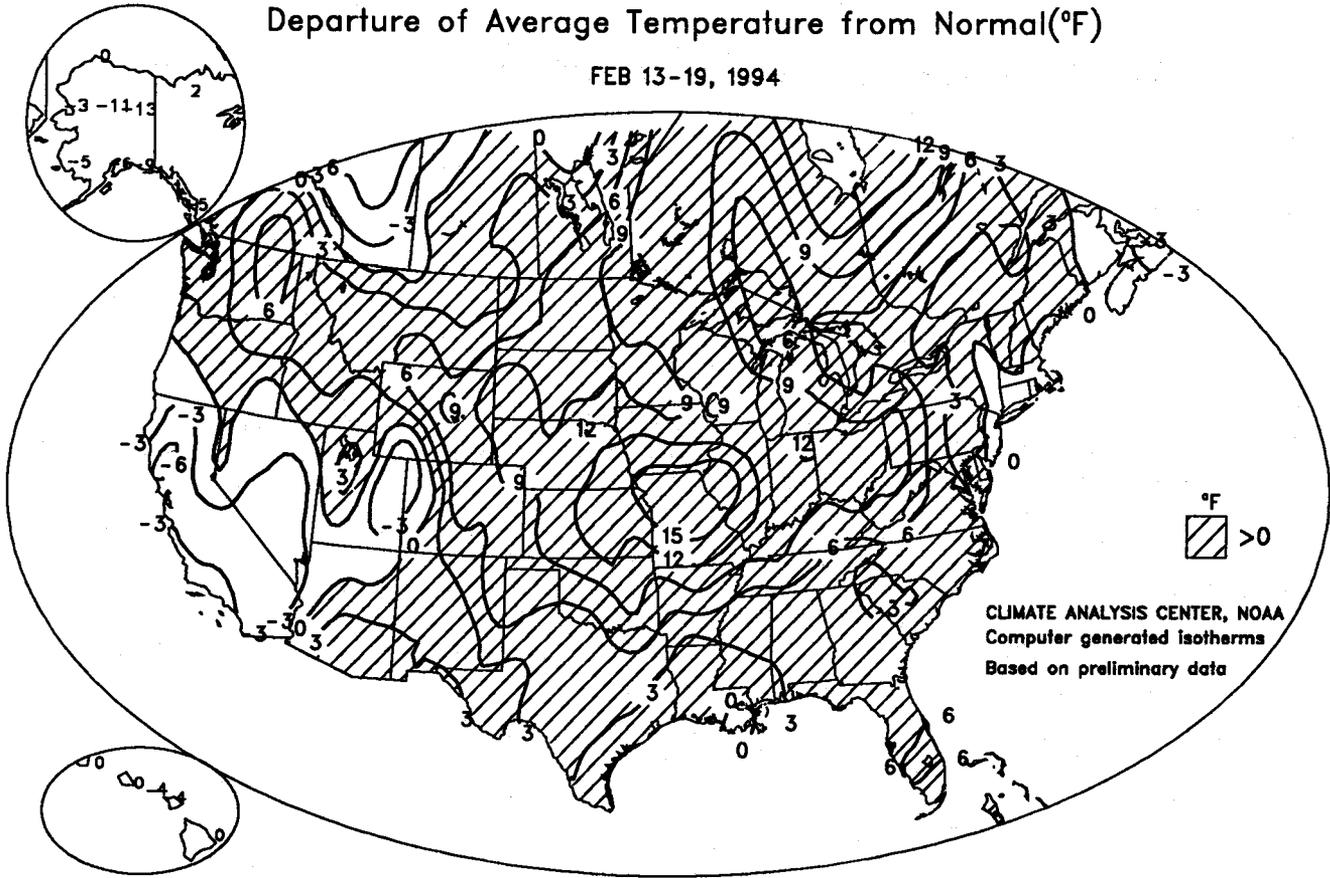
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Departure of Average Temperature from Normal(°F)

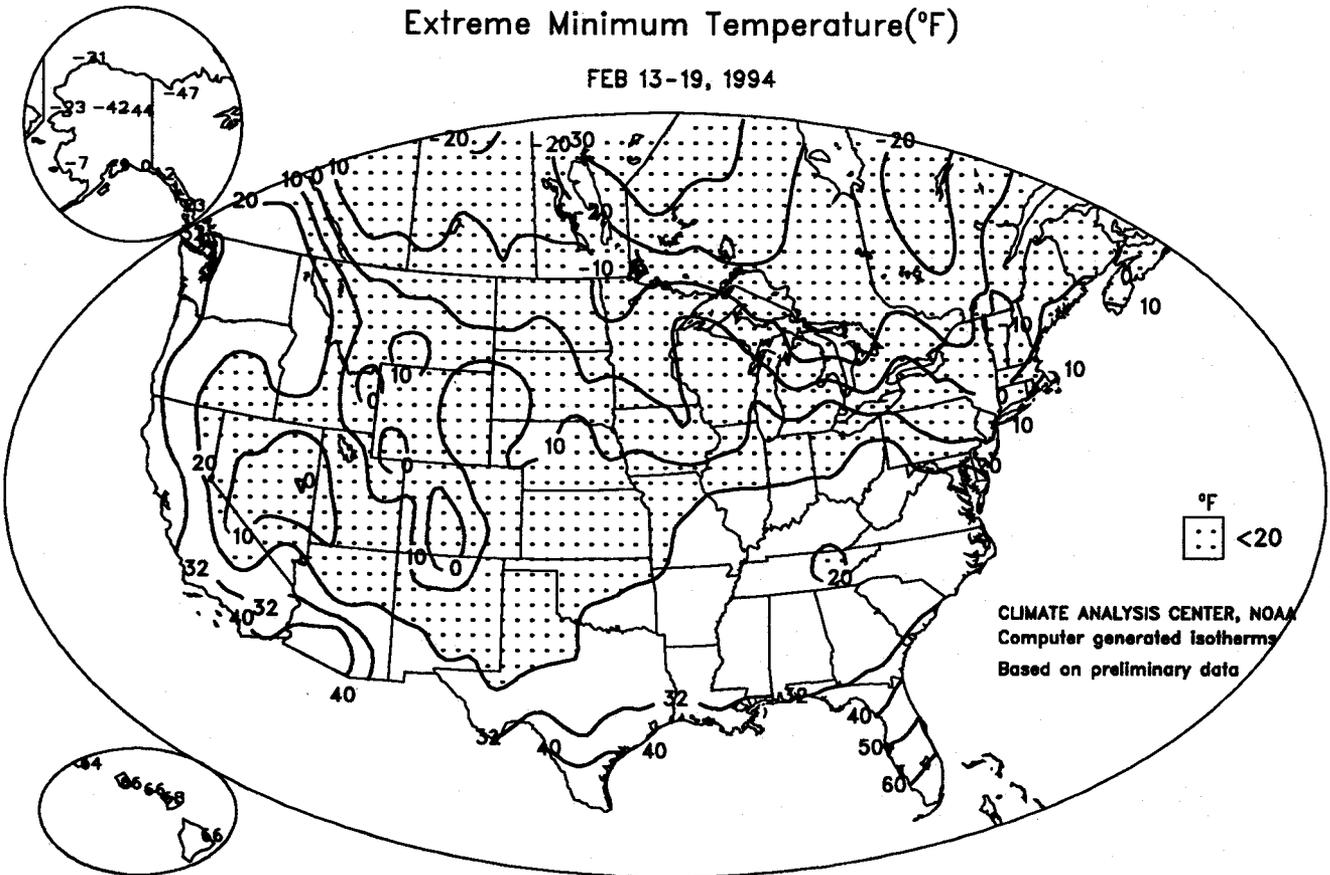
FEB 13-19, 1994



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

Extreme Minimum Temperature(°F)

FEB 13-19, 1994



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

National Weather Data for Selected Cities

Weather Data for the Week Ending February 19, 1994

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT	NUMBER OF DAYS								
	AVERAGE	MAXIMUM	MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Dec 1	PCT. NORMAL SINCE Dec 1		TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE	MAXIMUM	MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	
													OR MORE								.50 INCH OR MORE	
AL BIRMINGHAM	63	35	74	22	49	3	.0	-1.2	.0	11.8	88	7.8	95	87	39	0	0	0	0	0	0	0
MOBILE	68	43	74	30	56	2	.0	-1.4	.0	11.4	84	7.7	93	83	36	0	0	0	0	0	0	0
MONTGOMERY	68	40	78	28	54	6	.0	-1.3	.0	13.8	101	9.1	108	84	35	0	0	0	0	0	0	0
AK ANCHORAGE	21	3	25	-3	12	-7	.0	-1.0	.0	1.1	46	.8	62	68	43	0	0	0	0	0	0	0
BARROW	-13	-21	-2	-31	-17	1	.0	-1.0	.0	.2	59	.1	35	74	71	0	0	0	0	0	0	0
FAIRBANKS	-9	-33	4	-38	-21	-18	.0	-1.1	.0	1.2	75	.8	101	71	54	0	0	0	0	0	0	0
JUNEAU	20	8	25	0	14	-15	.0	-1.0	.0	14.0	121	8.1	113	67	40	0	0	0	0	0	0	0
KODIAK	31	21	36	15	26	-14	.0	-1.3	.0	25.5	142	14.7	132	69	47	0	0	0	0	0	0	0
WOME	9	-8	14	-16	1	-3	.0	-1.1	.0	3.2	153	1.3	105	75	54	0	0	0	0	0	0	0
AZ PHOENIX	72	51	80	47	62	3	.0	-1.3	.0	7.7	34	.7	61	48	16	0	0	0	0	0	0	0
PRESCOTT	55	27	66	18	41	2	.2	-1.2	.1	1.7	42	1.3	50	73	26	0	0	0	0	0	0	0
TUCSON	74	46	85	41	60	6	.2	-1.2	.0	1.1	45	.9	70	55	14	0	0	0	0	0	0	0
YUMA	74	50	80	46	62	1	.1	-1.1	.0	.3	27	.3	53	35	15	0	0	0	0	0	0	0
AR FORT SMITH	64	36	70	22	50	8	1.0	-.4	1.0	8.1	124	5.2	148	78	33	0	0	0	0	0	0	0
LITTLE ROCK	62	42	70	31	52	1	.1	-.9	-.1	10.5	105	6.2	116	72	33	0	0	0	0	0	0	0
CA BAKERSFIELD	63	39	68	33	51	2	.3	-.1	-.2	2.3	105	1.7	107	61	20	0	0	0	0	0	0	0
BURENA	55	44	62	39	50	0	3.4	2.3	1.6	18.2	119	11.1	121	83	40	0	0	0	0	0	0	0
FRESNO	60	36	65	30	48	-3	.9	-.5	-.5	3.8	83	2.8	87	92	28	0	0	0	0	0	0	0
LOS ANGELES	67	48	75	44	57	0	1.3	-.7	1.3	4.4	77	3.5	84	71	25	0	0	0	0	0	0	0
REDDING	54	36	63	30	45	-6	2.0	1.0	-.8	11.8	81	8.7	95	92	51	0	0	0	0	0	0	0
SACRAMENTO	57	38	63	31	48	-3	.3	-.4	-.2	4.7	57	3.0	53	95	54	0	0	0	0	0	0	0
SAN DIEGO	64	47	69	43	56	-3	.9	-.5	-.7	3.9	88	3.1	109	74	34	0	0	0	0	0	0	0
SAN FRANCISCO	56	43	65	37	50	-3	2.2	1.4	-.9	9.4	98	7.2	110	89	25	0	0	0	0	0	0	0
CO DENVER	58	28	67	16	43	9	2.2	1.4	-.9	1.3	84	.8	100	62	20	0	0	0	0	0	0	0
GRAND JUNCTION	46	25	53	17	36	-1	.0	-.1	-.1	1.2	79	.6	75	81	30	0	0	0	0	0	0	0
PUEBLO	60	19	68	4	39	4	.0	-.1	-.1	.5	50	.5	94	74	18	0	0	0	0	0	0	0
CT BRIDGEPORT	37	19	48	6	28	-2	.0	-.7	-.7	11.8	135	7.2	138	83	50	0	0	0	0	0	0	0
HARTFORD	39	15	53	5	27	-1	.0	-.8	-.8	11.9	126	7.7	139	85	45	0	0	0	0	0	0	0
DC WASHINGTON	52	30	64	27	41	3	.0	-.7	-.7	11.0	144	6.7	146	85	41	0	0	0	0	0	0	0
FL APALACHICOLA	70	49	78	37	60	5	.0	-.9	-.9	10.5	99	7.7	120	97	—	0	0	0	0	0	0	0
DAYTONA BEACH	70	57	76	49	64	3	2.4	1.6	2.2	9.9	133	8.0	165	97	64	0	0	0	0	0	0	0
JACKSONVILLE	69	49	76	37	59	5	.2	-.8	-.8	8.7	101	6.9	119	88	50	0	0	0	0	0	0	0
KEY WEST	78	69	84	67	73	3	1.4	-.9	1.2	6.2	117	4.0	122	90	69	0	0	0	0	0	0	0
MIAMI	77	68	84	65	73	4	4.1	3.6	1.6	9.3	176	8.8	258	85	65	0	0	0	0	0	0	0
ORLANDO	73	58	77	48	65	4	1.4	-.6	-.6	8.0	124	7.3	169	94	66	0	0	0	0	0	0	0
TALLAHASSEE	72	45	80	32	58	5	.0	-.4	-.4	12.5	93	9.5	113	91	39	0	0	0	0	0	0	0
TAMPA	76	57	80	48	67	5	.1	-.7	-.7	5.1	82	3.8	95	93	51	0	0	0	0	0	0	0
WEST PALM BEACH	77	67	87	63	72	5	.9	-.1	-.6	9.4	141	8.6	194	92	66	0	0	0	0	0	0	0
GA ATLANTA	63	39	72	27	51	6	.0	-.2	-.2	10.6	86	8.0	101	85	40	0	0	0	0	0	0	0
AUGUSTA	68	36	75	25	52	4	.0	-.1	-.1	8.3	80	5.6	81	90	35	0	0	0	0	0	0	0
MACON	67	37	75	25	52	3	.0	-.2	-.2	9.4	78	6.6	85	89	36	0	0	0	0	0	0	0
SAVANNAH	67	45	75	33	56	5	.0	-.8	-.8	7.2	82	5.0	87	87	44	0	0	0	0	0	0	0
HI HILLO	77	68	80	67	72	1	9.5	7.0	4.3	49.7	174	33.6	203	97	85	0	0	0	0	0	0	0
HONOLULU	79	68	82	67	74	1	6.8	6.2	4.1	7.7	86	7.4	145	94	73	0	0	0	0	0	0	0
KAHULUI	82	69	88	68	76	4	.9	-.2	-.5	2.9	30	2.3	38	91	68	0	0	0	0	0	0	0
LIHUE	77	68	80	64	72	1	4.1	3.3	2.6	12.0	89	9.2	112	91	80	0	0	0	0	0	0	0
ID BOISE	48	30	56	23	39	2	.3	-.1	-.3	2.9	84	2.0	90	77	37	0	0	0	0	0	0	0
LEWISTON	52	35	57	31	44	4	.0	-.2	-.2	1.7	55	.9	48	67	35	0	0	0	0	0	0	0
POCATELLO	44	19	56	3	31	2	.2	-.0	-.2	1.9	71	1.3	77	85	44	0	0	0	0	0	0	0
IL CHICAGO	46	27	60	14	37	11	1.0	-.6	1.0	4.1	85	3.2	133	86	48	0	0	0	0	0	0	0
MOLINE	54	29	62	9	39	14	.9	-.6	.9	3.4	76	2.3	101	79	55	0	0	0	0	0	0	0
PEORIA	54	31	63	17	42	16	1.1	-.7	1.1	3.2	67	2.0	85	85	52	0	0	0	0	0	0	0
QUINCY	57	35	67	21	46	17	.0	-.4	-.4	1.3	28	.4	18	74	37	0	0	0	0	0	0	0
ROCKFORD	41	19	52	2	30	7	1.0	-.7	1.0	3.9	96	2.7	134	94	65	0	0	0	0	0	0	0
SPRINGFIELD	56	33	64	19	45	16	.1	-.3	-.1	2.4	45	1.3	51	79	50	0	0	0	0	0	0	0
IN EVANSVILLE	59	32	73	25	46	9	.0	-.9	-.9	6.3	70	3.6	70	79	43	0	0	0	0	0	0	0
FORT WAYNE	49	27	65	14	38	12	.0	-.5	-.5	4.5	75	3.0	97	89	61	0	0	0	0	0	0	0
INDIANAPOLIS	52	28	68	20	40	10	.0	-.6	-.6	5.5	76	3.3	85	80	53	0	0	0	0	0	0	0
SOUTH BEND	48	28	64	14	38	12	.1	-.4	-.4	4.4	65	2.9	85	83	53	0	0	0	0	0	0	0
IA DES MOINES	51	28	61	8	39	14	.2	-.1	-.2	2.5	85	1.7	105	84	54	0	0	0	0	0	0	0
SIOUX CITY	46	23	59	5	35	11	.0	-.2	-.2	1.8	105	1.3	137	83	57	0	0	0	0	0	0	0
WATERLOO	42	18	54	-1	30	10	.0	-.3	-.3	2.3	84	1.5	108	93	62	0	0	0	0	0	0	0
KS CONCORDIA	59	32	66	18	45	14	.0	-.2	-.2	1.7	96	.6	64	68	24	0	0	0	0	0	0	0
DODGE CITY	62	28	73	16	45	10	.0	-.2	-.2	1.4	93	.4	45	73	23	0	0	0	0	0	0	0
GOODLAND	55	24	68	16	40	7	.0	-.1	-.0	.4	37	.4	62	75	28	0	0	0	0	0	0	0
TOPEKA	61	30	67	13	46	13	.0	-.2	-.2	1.3	45	.4	28	72	27	0	0	0	0	0	0	0
WICHITA	64	33	69	15	48	12	.0	-.3	-.0	.4	12	.0	0	69	29	0	0	0	0	0	0	0
KY BOWLING GREEN	59	31	73	25	45	8	.0	-.1	-.1	15.1	130	8.8	135	89	40	0	0	0	0	0	0	0
LEXINGTON	55	32	70	23	43	9	.0	-.8	-.8	10.2	114	6.9	140	74	35	0	0	0	0	0	0	0
LOUISVILLE	59	32	73	26	46	10	.0	-.8	-.8	7.8	90	5.2	104	77	32	0	0	0	0	0	0	0
LA BATON ROUGE	65	40	72	28	52	-1	.0	-.4	-.4	12.3	86	9.0	104	93	42	0	0	0	0	0	0	0
LAKE CHARLES	67	43	77	33	55	1	.0	-.9	-.9	7.3	60	4.8	68	94	46	0	0	0	0	0	0	0
NEW ORLEANS	66	43	75	33	55	0																

Weather Data for the Week Ending February 19, 1994

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS								
	AVERAGE	MAXIMUM	MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Dec 1	PCT. NORMAL SINCE Dec 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE	MAXIMUM	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
ME CARIBOU	25	4	47	-11	15	3	.3	-1	.3	8.1	116	4.1	111	81	55	0	0	0	7	7	1	0	
PORTLAND	34	12	47	-2	23	-1	.3	-6	.2	11.5	111	6.1	105	86	47	0	0	7	7	3	0		
MD BALTIMORE	48	28	61	23	38	3	.4	-8	.3	11.4	133	6.9	134	82	45	0	0	7	7	1	0		
SALISBURY	51	26	67	22	39	2	.4	-5	.4	10.5	109	5.8	97	94	44	0	0	7	7	1	0		
MA BOSTON	38	23	52	13	30	0	.1	-9	.1	13.6	136	7.0	116	88	59	0	0	7	7	1	0		
CHATHAM	36	24	45	15	30	-1	.2	-8	.2	15.8	145	8.1	127	88	58	0	0	7	7	1	0		
MI ALPENA	37	12	55	-15	24	6	.1	-3	.1	2.7	59	2.3	91	89	57	0	0	7	7	1	0		
DETROIT	45	27	63	21	36	11	.4	-4	.4	4.1	71	3.3	114	86	58	0	0	7	7	1	0		
FLINT	42	22	59	9	32	8	.3	-3	.3	2.8	66	2.3	106	84	55	0	0	7	7	1	0		
GRAND RAPIDS	43	25	55	9	34	11	.3	0	.3	5.2	93	3.7	136	85	56	0	0	7	7	1	0		
HOUGHTON LAKE	39	13	54	-9	26	8	.3	0	.2	3.2	76	2.5	109	89	59	0	0	7	7	1	0		
LANSING	44	23	60	8	34	12	.3	0	.3	3.3	76	2.6	114	88	57	0	0	7	7	1	0		
MARQUETTE	33	8	47	-11	21	7	.1	-3	.1	3.2	54	1.9	57	80	66	0	0	7	7	1	0		
MUSKEGON	42	26	55	4	34	10	1.0	6	1.0	5.1	80	4.0	120	85	59	0	0	7	7	1	0		
SAULT ST. MARIE	30	9	46	-15	20	6	.1	-3	.1	5.2	80	2.6	73	89	63	0	0	7	7	1	0		
MN ALEXANDRIA	35	12	43	-7	24	10	.1	-2	.1	1.5	75	.9	63	94	70	0	0	7	7	1	0		
DULUTH	35	12	47	4	24	11	.1	-1	.1	3.6	121	2.3	133	87	55	0	0	7	7	1	0		
INT'L FALLS	36	9	48	-9	22	14	.1	-1	.1	1.3	59	.8	62	82	52	0	0	7	7	1	0		
MINNEAPOLIS	40	16	49	-4	28	10	.1	-2	.1	2.1	81	1.5	103	86	52	0	0	7	7	1	0		
ROCHESTER	36	16	45	1	26	9	.1	-2	.1	2.1	94	1.4	112	92	65	0	0	7	7	1	0		
MS GREENWOOD	65	38	77	22	51	4	.0	-1.1	.0	9.2	67	6.3	80	87	37	0	0	2	2	0	0		
JACKSON	62	36	72	24	49	2	.0	-1.2	.0	16.3	109	13.4	154	89	43	0	0	2	2	0	0		
MERIDIAN	65	37	74	27	51	2	.0	-1.4	.0	17.0	115	13.7	158	88	38	0	0	3	3	0	0		
MO CAPE GIRARDEAU	60	34	71	26	47	11	.0	-8	.0	7.8	83	5.0	100	87	40	0	0	4	4	0	0		
COLUMBIA	61	34	70	19	47	16	.7	3	.7	3.1	60	1.6	62	73	30	0	0	3	3	1	0		
KANSAS CITY	61	33	66	15	47	15	.5	-2	.5	2.3	69	1.2	69	69	33	0	0	4	4	1	0		
SAINT LOUIS	61	38	69	25	49	15	.2	-3	.2	3.9	64	2.5	79	71	32	0	0	2	2	1	0		
SPRINGFIELD	61	35	69	19	48	13	.8	4	.8	3.9	70	2.3	80	71	34	0	0	3	3	1	0		
MT BILLINGS	48	28	60	17	38	9	.1	-1	.1	.7	33	.5	37	60	32	0	0	5	5	2	0		
GLASGOW	30	9	41	-5	20	2	.1	-1	.1	1.0	106	.8	150	86	63	0	0	7	7	2	0		
GREAT FALLS	43	24	59	5	33	6	.1	-1	.1	1.1	53	.8	64	67	45	0	0	5	5	2	0		
HAVRE	28	8	42	-12	18	4	.1	-1	.1	.1	.1	.1	0	84	71	0	0	7	7	2	0		
HELENA	49	22	58	15	36	9	.1	0	.1	.5	34	.4	42	79	33	0	0	6	6	1	0		
KALISPELL	41	23	47	18	32	5	.1	-2	.1	3.2	79	1.6	69	89	53	0	0	7	7	2	0		
MILES CITY	37	16	45	2	26	3	.1	-1	.1	1.0	70	.9	109	87	60	0	0	7	7	1	0		
MISSOULA	45	24	50	19	34	5	.2	0	.1	1.0	33	.6	33	87	51	0	0	7	7	4	0		
NE GRAND ISLAND	50	26	61	14	38	11	.1	-2	.1	1.2	78	.8	92	82	49	0	0	6	6	0	0		
LINCOLN	55	26	66	10	41	14	.1	-2	.1	.9	48	.5	49	91	42	0	0	6	6	0	0		
NORFOLK	48	24	60	6	36	11	.1	-2	.1	1.4	82	.9	100	79	51	0	0	6	6	0	0		
NORTE PLATTE	53	23	64	11	38	10	.1	-1	.1	.8	75	.6	97	88	38	0	0	6	6	0	0		
OMAHA	55	22	62	11	39	8	.1	0	.1	1.5	116	1.0	126	81	21	0	0	7	7	1	0		
SCOTTSBLOFF	51	20	60	7	35	7	.1	-2	.1	.8	65	.3	43	78	33	0	0	7	7	0	0		
VALENTINE	40	12	47	-3	26	4	.1	-1	.1	1.6	83	1.4	121	73	39	0	0	7	7	2	0		
NV RLY	58	38	62	31	48	-3	.1	-1	.1	.7	63	.5	66	51	23	0	0	2	2	1	0		
LAS VEGAS	53	25	62	20	39	1	.1	-1	.1	.7	26	.5	30	73	21	0	0	6	6	2	0		
NEW	49	25	59	16	37	0	.2	0	.1	1.3	65	1.0	84	77	37	0	0	5	5	3	0		
WINNEVOCCA	36	5	54	-8	20	-1	.1	-5	.1	7.2	98	3.9	92	93	47	0	0	7	7	1	0		
NE CONCORD	46	20	63	11	33	-1	.1	-8	.1	10.2	115	6.0	108	87	48	0	0	7	7	0	0		
NJ ATLANTIC CITY	58	28	69	18	43	2	.1	-1	.1	.3	21	.2	30	48	19	0	0	5	5	0	0		
NM ALBUQUERQUE	63	31	73	21	47	6	.0	-1	.0	.5	41	.1	4	58	14	0	0	5	5	0	0		
CLOVIS	65	30	76	18	47	3	.0	-1	.0	.1	12	.1	3	73	27	0	0	5	5	0	0		
ROSWELL	38	12	53	-1	25	1	.1	-5	.1	7.0	103	4.0	102	84	43	0	0	7	7	2	0		
NY ALBANY	38	16	56	4	27	5	.1	-5	.1	7.6	109	4.3	108	75	47	0	0	6	6	3	0		
BINGHAMTON	42	22	63	8	32	8	.1	-5	.1	7.3	92	3.7	88	76	48	0	0	6	6	1	0		
BUFFALO	43	24	60	16	34	4	.1	-7	.1	11.1	133	6.6	134	83	41	0	0	6	6	1	0		
NEW YORK	40	16	61	4	28	4	.1	-3	.1	5.0	81	3.4	98	81	49	0	0	6	6	2	0		
ROCHESTER	38	14	60	3	26	2	.2	-3	.1	7.3	105	4.1	110	87	52	0	0	7	7	4	0		
SYRACUSE	55	25	62	21	40	0	.1	-1.1	.1	10.6	95	7.1	104	87	37	0	0	6	6	0	0		
NC ASHEVILLE	62	35	71	26	48	4	.0	-1.0	.0	7.8	80	4.5	71	70	28	0	0	3	3	0	0		
CHARLOTTE	59	29	68	24	44	4	.0	-8	.0	8.2	94	5.0	92	75	31	0	0	6	6	0	0		
GREENSBORO	57	38	70	31	48	2	.0	-1.0	.0	12.7	100	8.6	105	86	51	0	0	1	1	0	0		
HATTERAS	63	34	71	28	48	2	.0	-1.1	.0	8.5	78	5.3	96	93	34	0	0	3	3	0	0		
NEW BERN	60	32	70	24	46	4	.1	-9	.1	9.0	98	5.3	88	87	38	0	0	4	4	0	0		
RALEIGH	64	37	71	30	50	5	.1	-1.1	.1	10.7	91	8.0	105	95	34	0	0	1	1	0	0		
WILMINGTON	35	7	42	0	21	4	.1	-1	.1	1.7	134	.8	109	97	68	0	0	7	7	1	0		
ND BISMARCK	34	10	41	-8	22	10	.1	-1	.1	2.0	122	1.0	101	87	69	0	0	6	6	0	0		
FARGO	31	6	41	-15	19	8	.1	-1	.1	1.5	87	1.0	98	92	69	0	0	6	6	0	0		
GRAND FORKS	31	5	42	-9	18	1	.3	-2	.3	1.7	119	1.3	158	87	68	0	0	7	7	2	0		
WILLISTON	46	28	63	21	37	9	.1	-5	.1	6.9	106	4.2	116	79	54	0	0	6	6	1	0		
OH AKRON-CANTON	54	30	70	21	42	10	.1	-7	.1	6.6	88	4.1	95	77	40	0	0	5	5	1	0		
CINCINNATI	48	29	64	20	39	11	.1	-5	.1	5.1	78	2.9	84	79	50	0	0	6	6	1	0		
CLEVELAND	50	28	69	22	39	12	.1	-6	.1	6.6	103	4.4	131	85	46	0	0	6	6	1	0		
COLUMBUS	50	29	67	21	40	10	.1	-5	.1	7.5	116	4.7	133	83	49	0	0	6	6	0	0		
DAYTON	50	29	67	21	40	10	.1	-5	.1	7.5	116	4.7	133	83	49	0	0	6	6	0	0		

Based on 1961-90 normals.

Weather Data for the Week Ending February 19, 1994

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT	NUMBER OF DAYS						
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Dec 1	PCT. NORMAL SINCE Dec 1	TOTAL, IN., SINCE Jan 1		PCT. NORMAL SINCE Jan 1	AVERAGE	MAXIMUM	MINIMUM	TEMP. °F		PRECIP.
													90 AND ABOVE					32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
TOLEDO	46	26	63	15	36	11	T	-.4		4.6	80	3.4	118	86	57	0	0	0	0	
YOUNGSTOWN	46	28	64	17	37	11	T	-.4		5.8	91	3.2	94	75	49	0	0	2	0	
OK OKLAHOMA CITY	63	34	71	18	48	7	T	.7	.3	2.2	62	.9	43	71	35	0	6	4	1	
TULSA	64	36	72	19	50	10	T	.4	.4	3.3	68	1.6	57	76	33	0	4	1		
OR ASTORIA	49	41	53	35	45	0	T	4.5	2.7	1.4	87	12.8	84	95	72	0	0	7	3	
BURNS	42	23	46	15	33	3	T	-.2		1.4	52	.5	36	79	44	0	7	0		
MEDFORD	53	32	60	24	43	0	T	-.3		4.1	56	1.7	41	91	42	0	4	0		
PERDLETON	55	36	63	31	46	6	T	-.3		2.6	65	1.7	72	65	27	0	1	0		
PORTLAND	51	41	55	37	46	2	T	1.1	1.1	9.7	68	4.7	58	90	48	0	0	0		
SALEM	52	40	56	35	46	4	T	1.6	.5	13.0	82	6.1	68	90	40	0	0	2		
PA ALLENTOWN	43	14	57	4	29	-1	T	-.7		12.7	147	7.7	150	81	39	0	7	1		
ERIE	46	28	64	9	37	11	T	-.5		5.9	81	3.0	82	73	48	0	5	0		
HARRISBURG	46	21	58	11	33	2	T	-.7		11.3	141	7.4	154	89	39	0	1	0		
PHILADELPHIA	48	27	58	22	37	5	T	-.8		9.7	105	6.0	108	79	38	0	7	0		
PITTSBURGH	50	28	68	23	39	10	T	-.5		6.7	96	4.6	113	75	43	0	6	0		
SCRANTON	43	15	59	3	29	2	T	-.5		6.9	114	3.9	110	78	40	0	7	0		
RI PROVIDENCE	37	17	51	8	27	-3	T	-.9		12.4	116	6.7	106	84	51	0	7	1		
SC CHARLESTON	67	43	74	34	55	4	T	-.8	.0	10.5	120	8.2	147	77	36	0	0	0		
COLUMBIA	67	34	75	26	51	4	T	-1.0		7.9	74	5.6	77	88	30	0	4	0		
FLORENCE	66	37	76	27	52	4	T	-.8	.0	7.6	87	5.7	101	87	30	0	2	0		
GREENVILLE	61	33	69	28	47	4	T	-1.1		9.1	81	6.1	87	70	29	0	4	0		
SD ABERDEEN	36	12	42	0	24	7	T	-.1		1.7	113	1.2	116	87	60	0	6	0		
BURON	38	12	48	-3	25	6	T	-.2		1.9	153	1.2	155	89	66	0	6	0		
RAPID CITY	52	26	64	15	39	12	T	-.1		1.3	108	.7	106	69	39	0	6	0		
STOUC FALLS	43	19	53	7	31	11	T	-.1		1.4	90	1.1	128	88	61	0	6	1		
TX CHATTANOOGA	62	31	72	22	46	4	T	-1.2		15.7	118	10.4	129	99	35	0	5	0		
KNOXVILLE	59	27	73	20	43	3	T	-1.0		20.6	180	12.5	183	88	36	0	6	0		
MEMPHIS	62	39	74	26	51	6	T	-1.1	.0	13.7	112	8.2	124	75	33	0	2	0		
NASHVILLE	61	32	73	21	47	6	T	-1.0		13.9	130	7.3	120	80	34	0	4	0		
TX ABILENE	66	37	73	21	51	4	T	-.3		2.0	71	1.1	61	81	34	0	2	0		
AMARILLO	64	30	75	15	47	7	T	-.2	.0	2.0	153	1.0	116	64	17	0	4	0		
AUSTIN	68	46	72	32	57	4	T	-.5		3.2	64	2.1	66	80	44	0	1	1		
BEAUMONT	67	46	75	36	57	2	T	-.8	.1	10.0	84	8.1	113	94	49	0	0	0		
BROWNSVILLE	73	53	79	42	63	0	T	-.3		4.6	128	2.3	99	91	35	0	0	0		
CORPUS CHRISTI	68	51	77	45	60	1	T	-.5		6.7	153	1.9	60	89	35	0	0	1		
DEL RIO	69	51	73	41	60	6	T	-.4		2.9	92	2.8	132	71	41	0	0	0		
EL PASO	69	40	76	27	54	6	T	-.1		1.0	76	.3	38	45	16	0	1	0		
FORT WORTH	65	41	71	24	53	6	T	-.5	.1	4.1	75	1.6	46	81	38	0	2	1		
GALVESTON	63	52	68	43	58	2	T	-.5	.0	4.9	58	2.4	50	95	61	0	0	0		
HOUSTON	67	44	75	31	56	2	T	-.9		6.1	55	3.4	55	90	49	0	1	0		
LUBBOCK	65	30	77	14	48	4	T	-.2		.8	58	.5	56	80	25	0	4	0		
MIDLAND	67	34	74	19	50	2	T	-.1		1.4	101	1.0	119	84	29	0	4	0		
SAN ANGELO	67	40	75	24	54	5	T	-.3		2.5	107	1.7	110	85	35	0	2	0		
SAN ANTONIO	69	47	74	30	58	4	T	-.5	.0	2.3	51	1.8	62	80	40	0	1	0		
VICTORIA	67	46	76	36	57	2	T	-.7		5.8	70	1.8	33	86	47	0	0	1		
WACO	64	41	70	23	53	3	T	-.5		3.5	71	2.0	66	91	47	0	2	0		
WICHITA FALLS	64	36	70	22	50	5	T	-.2	.3	3.1	75	.5	18	77	35	0	3	1		
UT CEDAR CITY	47	23	55	6	35	0	T	-.4	-.2	1.6	84	1.3	103	82	38	0	6	0		
SALT LAKE CITY	48	28	56	22	38	4	T	-.1	-.2	2.1	64	1.3	66	82	41	0	6	3		
VT BURLINGTON	34	8	50	-11	21	3	T	-.3	-.1	4.1	77	2.5	88	85	51	0	7	3		
VA NORFOLK	59	31	68	27	45	4	T	-.9		10.3	110	7.0	114	83	34	0	0	0		
RICHMOND	58	28	69	25	43	4	T	-.8		9.4	109	5.6	105	81	26	0	7	0		
ROANOKE	55	29	67	24	42	4	T	-.8		13.7	181	8.4	183	71	31	0	0	0		
WA QUILLAYUTE	46	37	50	32	42	0	T	3.3	1.8	31.7	82	19.1	83	99	82	0	1	7		
SEATTLE-TACOMA	48	39	50	34	43	0	T	1.7	.7	9.8	69	5.3	65	90	68	0	0	4		
SPOKANE	44	32	51	28	38	4	T	-.2	.1	3.7	69	1.9	64	85	60	0	0	6		
YAKIMA	51	32	55	22	42	5	T	-.3	.5	1.9	59	.8	48	80	55	0	3	2		
WV BECKLEY	52	30	64	22	41	9	T	-.7		12.7	156	8.2	168	68	35	0	4	1		
CHARLESTON	57	31	77	25	44	8	T	-.7		13.6	165	10.4	212	77	32	0	5	1		
HUNTINGTON	56	31	75	25	44	10	T	-.8		11.9	138	8.6	171	81	33	0	5	0		
PARKERSBURG	54	30	71	22	42	9	T	-.7		11.7	146	9.7	190	93	38	0	5	0		
WI GREEN BAY	39	17	49	7	28	10	T	-.1	-.1	2.2	68	1.8	101	94	63	0	5	0		
LACROSSE	43	18	54	6	30	10	T	-.4	-.2	2.9	85	2.6	143	91	54	0	6	1		
MADISON	42	19	50	5	31	10	T	-.4	-.2	4.5	93	3.8	152	91	54	0	4	1		
MILWAUKEE	45	26	54	13	36	13	T	-.7	-.3	1.7	58	1.1	77	83	51	0	6	1		
WAUSAU	40	16	50	7	28	11	T	-.1	-.1	1.6	103	1.0	104	65	34	0	5	1		
WY CASPER	46	28	55	21	37	10	T	-.1	-.1	1.5	148	1.2	198	74	28	0	6	1		
CHEYENNE	48	25	53	17	36	7	T	-.1	.0	1.7	120	1.3	155	63	31	0	7	0		
LANDER	43	18	50	6	31	5	T	-.1	.0	1.7	120	1.3	155	63	31	0	7	0		
SHERIDAN	42	20	48	8	31	4	T	.5	.3	3.0	158	2.6	216	74	47	0	7	2		

Based on 1961-90 normals.

HEATING DEGREE DAYS (Base 65° F) February 13 - 19, 1994

(Cumulative totals and departures from normal are for the period July 1, 1993 - February 19, 1994)

STATES AND STATIONS	WEEKLY		CUMULATIVE		STATES AND STATIONS	WEEKLY		CUMULATIVE		STATES AND STATIONS	WEEKLY		CUMULATIVE				
	TOTAL	DEPARTURE	TOTAL	DEPARTURE		TOTAL	DEPARTURE	TOTAL	DEPARTURE		TOTAL	DEPARTURE	TOTAL	DEPARTURE			
AL BIRMINGHAM	110	-24	2298	47	275	LA BATON ROUGE	86	1	1625	249	503	TULSA	102	-69	3029	184	103
HUNTSVILLE	121	-30	2647	115	328	LAKE CHARLES	72	-11	1345	38	242	OR ASTORIA	139	-6	3290	45	-87
MOBILE	64	-18	1536	149	390	NEW ORLEANS	73	-5	1347	111	425	EUGENE	146	2	3222	237	78
MONTGOMERY	80	-25	1907	148	305	SHERVEPORT	88	-21	1892	77	104	MEDFORD	155	2	3099	-73	218
AK ANCHORAGE	371	49	6177	-1011	-1081	ME BANGOR	314	-3	5686	366	190	NORTH BEND	127	2	2835	14	111
BARRON	567	-15	1267	-1362	-1101	PORTLAND	295	4	5150	232	227	PENDLETON	134	-44	3602	-114	-485
BETHEL	448	34	7461	-1060	-1040	MD BALTIMORE	185	-26	3579	225	419	PORTLAND	133	-15	2828	-205	-193
COLD BAY	244	-22	5337	-658	-711	MA BOSTON	241	-2	4106	338	272	REDMOND	187	-13	4545	150	-374
FAIRBANKS	593	115	8953	-1011	-988	MI ALPENA	283	-46	5972	518	496	SALEM	130	-24	2962	-237	-118
JUNEAU	356	102	5106	-797	-616	DETROIT	203	-74	4602	87	377	PA ALLENTOWN	254	5	4353	314	454
KING SALMON	433	79	6280	-1250	-1080	FLINT	229	-62	5326	585	720	BRADFORD	244	-63	5495	117	420
KOTLEBUE	507	14	8882	-1005	-1389	GRAND RAPIDS	213	-77	5202	430	576	ERIE	194	-82	4566	408	649
MCCRATH	535	64	8541	-1497	-1124	LANSING	220	-75	5279	424	540	PHILADELPHIA	190	-33	3342	-138	238
NOME	446	13	8096	-832	-1508	MUSKOGON	216	-69	5032	427	472	PITTSBURGH	179	-75	4267	113	446
ST PAUL ISLAND	242	-59	5963	-686	-857	TRAVERSE CITY	265	-53	5404	309	329	SCRANTON	250	-18	4657	325	571
YAKUTAT	340	83	5347	-758	-992	MN DULUTH	288	-79	7225	519	650	WILLIAMSPORT	248	-10	4635	400	678
AZ FLAGSTAFF	232	-1	4430	-167	-21	INT'L FALLS	298	-101	7702	378	469	RI PROVIDENCE	264	17	4213	291	353
PHOENIX	27	-29	774	-248	00	MINNEAPOLIS	258	-69	6090	398	503	SC CHARLESTON	69	-33	1587	-5	244
TUCSON	37	-36	1068	-187	-90	ROCHESTER	272	-62	6286	471	374	COLUMBIA	99	-29	2106	45	156
AR FORT SMITH	105	-55	2701	19	162	MS JACKSON	108	-10	2194	244	568	GREENVILLE	123	-28	2642	182	156
LITTLE ROCK	90	-61	2543	43	152	MERIDIAN	94	-18	1953	43	335	SD ABERDEEN	285	-51	6507	485	338
CA FRESNO	115	21	1777	-139	83	MO COLUMBIA	121	-108	4011	208	235	HURON	274	-43	6206	553	441
LOS ANGELES	52	-4	592	-261	-135	KANSAS CITY	125	-109	4022	62	80	PIERRE	249	-46	5676	421	156
SACRAMENTO	120	24	1925	-28	77	SAINT LOUIS	108	-109	3545	34	174	RAPID CITY	181	-85	4938	-67	-586
SAN DIEGO	63	14	712	-51	03	SPRINGFIELD	115	-88	3527	111	234	SIOUX FALLS	237	-78	5995	405	347
SAN FRANCISCO	105	17	1577	-342	30	MT BILLINGS	186	-62	4760	-167	-437	TM BRISTOL	158	-35	3252	47	295
CO COLORADO SPRINGS	181	-49	4366	42	-100	GLASGOW	315	-14	6417	238	03	CHATTANOOGA	129	-32	2571	-123	204
DENVER	154	-66	4024	-91	-415	GREAT FALLS	221	-39	5368	100	-329	KNOXVILLE	150	-23	2997	85	358
GRAND JUNCTION	205	-3	4080	-20	144	HAVRE	327	24	6137	188	-221	MEMPHIS	101	-43	2440	57	179
CT HARTFORD	264	2	4651	371	366	HELENA	205	-62	5343	-216	-629	NASHVILLE	128	-43	2928	117	338
DE WILMINGTON	208	-13	3609	132	369	KALISPELL	228	-37	5534	-235	-437	TX ABILENE	93	-29	2139	91	142
DC WASHINGTON	166	-26	3261	315	323	MISSOULA	211	-37	5128	-245	-655	AMARILLO	125	-54	3288	159	-153
FL DAYTONA BEACH	15	-34	680	-36	243	NE GRAND ISLAND	186	-75	4756	115	-277	AUSTIN	57	-29	1298	-90	20
FORT MYERS	0	-28	206	-152	103	NORTH PLATTE	187	-72	4805	-69	-377	BROWNSVILLE	24	-8	500	-61	115
JACKSONVILLE	42	-31	1146	-1	264	OMAHA	197	-76	4994	331	284	CORPUS CHRISTI	39	-13	762	-92	100
KEY WEST	0	-9	24	-60	16	SCOTTSBLUFF	182	-59	4789	144	-479	DALLAS FT WORTH	80	-39	1932	22	152
MIAMI	0	-14	78	-98	53	NV ELKO	246	15	5314	497	-466	EL PASO	74	-42	1940	-202	40
ORLANDO	10	-31	479	-96	170	ELY	274	27	5405	372	114	HOUSTON	68	-9	1301	17	230
PENSACOLA	47	-32	1305	5	371	LAS VEGAS	114	20	1794	-54	-82	LUBBOCK	118	-33	2619	-11	23
TALLAHASSEE	48	-36	1353	-4	381	RENO	179	-7	3381	-535	-519	LUFKIN	85	-9	1701	128	143
TAMPA	7	-31	457	-134	146	WINNEBOCCA	197	-3	4355	33	-282	MIDLAND ODESSA	100	-23	2160	-25	64
WEST PALM BEACH	0	-21	137	-138	69	NH CONCORD	311	9	5517	354	378	SAN ANGELO	78	-37	1848	-117	38
GA ATHENS	105	-31	2357	136	212	NJ ATLANTIC CITY	226	2	3798	256	402	SAN ANTONIO	51	-30	1274	-80	97
ATLANTA	95	-46	2155	-146	99	NEWARK	219	-5	3608	206	480	VICTORIA	57	-11	1051	-31	146
AUGUSTA	93	-30	2012	7	222	NM ALBUQUERQUE	154	-18	3076	-193	00	WACO	86	-23	1924	179	288
MACON	91	-22	2018	165	299	NY ALBANY	277	-13	5187	434	483	WICHITA FALLS	106	-34	2554	184	295
SAVANNAH	59	-33	1449	-41	197	BINGHAMTON	262	-35	5398	486	356	UT CEDAR CITY	209	-2	3988	-82	-82
ID BOISE	180	-20	4099	-27	-312	BUFFALO	229	-55	4869	368	444	SALT LAKE CITY	184	-30	3861	-200	-474
POCATELLO	233	-16	4999	93	-306	MASSENA	333	-7	6003	358	274	VT BURLINGTON	306	-23	5687	348	443
IL CHICAGO	196	-79	4861	283	431	NEW YORK	217	-5	3538	183	301	VA LYNCHBURG	155	-39	3219	69	307
MOLINE	177	-103	4846	208	318	ROCHESTER	256	-28	5075	548	403	NORFOLK	138	-29	2558	70	271
PEORIA	157	-114	4494	81	312	SYRACUSE	271	-17	5212	598	575	RICHMOND	153	-30	2952	33	244
ROCKFORD	245	-49	5223	321	448	NC ASHEVILLE	172	-11	3281	173	371	ROANOKE	160	-33	3353	184	329
SPRINGFIELD	142	-111	4201	95	425	CAPE HATTERAS	121	-16	1642	-239	138	WA OLYMPIA	153	-13	3423	-276	-126
IN EVANSVILLE	132	-80	3511	33	369	CHARLOTTE	114	-43	2409	-88	149	QUILLAYUTE	161	0	3512	-183	-148
FORT WAYNE	185	-89	4525	133	339	GREENSBORO	145	-29	2947	107	139	SEATTLE TACOMA	150	3	3059	-137	-48
INDIANAPOLIS	174	-73	4256	216	482	RALEIGH DURHAM	132	-28	2668	96	218	SPOKANE	186	-33	4593	-111	-411
SOUTH BEND	187	-83	4835	432	606	WILMINGTON	100	-23	1849	-15	153	YAKIMA	163	-34	4144	-92	-408
IA DES MOINES	179	-101	5032	330	327	ND BISMARCK	309	-34	6791	476	314	NV BECKLEY	168	-62	3894	-19	363
MASON CITY	251	-71	6016	441	370	FARGO	300	-69	6895	358	305	CHARLESTON	146	-60	3463	100	365
SIOUX CITY	212	-76	5422	412	324	MIROT	290	-60	6901	474	295	HUNTINGTON	149	-60	3537	141	424
WATERLOO	244	-68	5537	190	389	WILLISTON	327	-11	6895	434	153	WI EAU CLAIRE	264	-75	6297	407	653
KS CONCORDIA	135	-101	4110	82	-315	OR ANCON CANTON	195	-68	4628	375	464	GREEN BAY	257	-69	5827	258	471
DODGE CITY	139	-68	3889	253	-423	CLEVELAND	184	-81	4489	277	523	MADISON	239	-71	5529	192	513
GOODLAND	175	-53	4461	278	-382	COLUMBUS	180	-67	4130	92	454	MILWAUKEE	202	-91	4805	-144	236
RUSSELL	136	-89	3942	62	-360	CINCINNATI	157	-75	4029	251	443	WY CASPER	195	-73	4820	-357	-311
TORERA	134	-95	3984	86	101	DAYTON	178	-71	4355	311	484	CHRYSTIE	200	-49	4964	151	02
WICHITA	115	-95	3536	-16	-91	TOLEDO	200	-79	4757	198	588	LANDER	238	-37	5308	-120	-650
NY LEXINGTON	148	-64	3706	234	489	YOUNGSTOWN	193	-81	4711	247	439	ROCK SPRINGS	313	29	5780	184	-310
LOUISVILLE	133	-71	3511	199	553	OK OKLAHOMA CITY	116	-51	3019	224	204	SHERIDAN	235	-33	5318	-22	-444

Based on 1961-90 normals.

National Agricultural Summary

February 14 - 20, 1994

A Pacific storm system pushed across the country and cut off the previous week's blast of cold Canadian air. Although precipitation fell across the Northwest most of the week, winter wheat lacked snow cover. Small grains growth in the southern Pacific Coast was boosted by rain that fell at the end of the week. This week's storm increased snow cover for winter wheat in the Rocky Mountains and northern High Plains. Small grains in the southern Great Plains benefited from warmer weather and heavy rain after midweek. The previous week's cold weather caused damage to some small grains. Above-normal temperatures occurred across most of the United States. The large increase in average temperatures from the previous week

reduced the snow pack across the Corn Belt. The decreased snow cover exposed winter wheat to wind damage and increased farmers' concerns of potential damage from lower temperatures. The rapid snow melt, combined with heavy rains in the middle Mississippi Valley, brought unwanted moisture and intensified flooding. Despite lack of rain in the Ohio Valley, spring-like temperatures left soils saturated and pastures stressed. The warmer weather aided the Tennessee Valley in recovering from last week's ice storm, but muddy conditions hampered field work. Heavy rains caused damage to some vegetables in south Florida. Sorghum and corn planting started in Texas. Cotton planting began in Arizona.

(Continued from front cover)

into the west coast storm system, delivering heavy snow from the Sierra Nevada to the front range of the Rockies. More than 3 feet of snow blanketed previously bare ground in Blue Canyon, CA. High winds also buffeted exposed coasts and mountain crests from Washington to northern California, with gusts topping 60 miles per hour. Farther south, more than 1 inch of rain caused additional debris flows in southern California's burned canyons. East of the Rockies, 3 dozen daily record highs were established after midweek. Many of the records, including those in Flint, MI (56°F on Friday) and Rochester, NY (61°F on Saturday), occurred despite snow cover. However, substantial snow melted from the upper Midwest to New England, sending numerous creeks and rivers to bankfull or above. The situation was compounded by late-week rainfall in northern Illinois, southeastern Wisconsin, and western Michigan. Snow cover disappeared from Iowa, which began the week with depths as great as 18 inches in Dubuque and 12 inches in Spencer. Milwaukee, WI lost all but a trace of its 21-inch snow cover; similarly, Grand Rapids, MI lost 13 inches. In the Dakotas, warm weather pared the snow depth to 4 inches, down from 20 inches, in Huron, SD, and to 12 inches, down from 24 inches, in Fargo, ND. In the Northeast, Bradford, PA noted a snow pack reduction to 4 inches by week's end, down from 31 inches on February 13; Poughkeepsie, NY also reported 4 inches, a 15-inch reduction. Elsewhere, bitterly cold weather returned to Alaska, where temperatures dipped below -40°F in the interior, while heavy rain soaked eastern Florida, where late-week totals locally topped 4 inches. Late on Saturday, a few severe thunderstorms erupted in the southern Plains, signaling the onset of stormy weather for much of the Nation.

State Summaries of Weather and Agriculture

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

ALABAMA: Rainfall none to 1.23 in. north; none to 1.26 in. central; none to 0.04 in. south. Temperatures 4 to 10° above normal north; 4 to 9° above normal central; 3 to 9° above normal south. Lows 18 to 31° north; 17 to 33° central; 25 to 37° south. Highs 69 to 74° north; 71 to 78° central; 74 to 80° south.

Primary activities: General care of livestock, poultry, catfish.

ARIZONA: Temperatures mostly above normal; 2° below to 5° above normal. Extremes 2°; 80° higher elevations; 25°; 85° deserts. Rain or snow reported most areas mid- to late-week. Precipitation 0.01 to 1.72 in.

First cotton planted. Small grain established 100%, 100% 1993, 100% avg. Alfalfa condition good. Haying, sheeping off activities light; stand renovation, new stand establishment below normal to normal. Citrus harvest steady. Grapefruit, navel, sweet oranges, lemons available central, western areas. Also, valencia oranges available western areas. Tangerines, tangelos available central area. Winter vegetable harvest active. Available from western, central areas: Bok choy, broccoli, cabbage, cauliflower, leaf, romaine lettuces, napa, spinach. Western harvest also included: Asparagus, broccoflower, celery, iceberg, boston lettuce, endive, escarole, salad savoy. Central crops available included: Beets, carrots, kohlrabi, leeks, mixed greens, green onions, radishes, rutabagas, swiss chard, turnips, watercress. Light volume tomatoes available eastern areas.

ARKANSAS: Temperatures 5 to 10° above normal for week. Extremes 14°; 75°. It was dry throughout the week with rain moving in on the weekend. Precipitation none to 1.95 in.

Soil moisture supplies remain adequate to surplus. Wheat condition fair to good. Farmers took advantage of last week's dry weather to apply nitrogen to wheat, no other fieldwork yet. Livestock, pastures good. Scattered hay shortages continue in south west. Pecan growers in south east are cleaning up orchards damaged by the ice storm last week.

CALIFORNIA: First half of the week was dry. 17th, 18th brought measurable rain to most reporting stations. Rainfall in excess of 1.00 in. was common along the southern coast, along the northern coast north of San Francisco. Most areas had over a tenth of an inch except the southeast deserts. Temperatures a few degrees below normal for week.

Rain, wet soils hampered progress field activities most areas. Small grains, winter forages, new alfalfa excellent growth. Some low-lying wheat in standing water. Small grains, dry beans, sugarbeets, alfalfa received aerial herbicide applications. Sugarbeets irrigated, thinned. Few fields new alfalfa treated aphids, weevils. Ground preparation for planting cotton, safflower, other row crops where soil moisture conditions allowed. Alfalfa, barley, sudangrass cut hay, greenchopped desert areas. Pruning orchards, vineyards winding down. Brush shredding, weed control being done. Dormant spraying slowing. Bees placed almonds as bloom nears peak. Early varieties peaches, plums, apricots, nectarines started bloom. Fuji, Granny Smith apples packed. Avocado harvesting continued. Navel orange, lemon harvests continued moderate pace. Navel orange prices depressed, quality good. Strawberry fields being prepared. Harvest broccoli San Joaquin, Imperial Valleys. Broccoli planting along central coast. Cabbage fields harvested Riverside, Fresno counties. Cucumbers planted under hot caps

Tulare County. Carrots moved out Kern County. Head lettuce fields thinned, treated for mildew, irrigated San Joaquin Valley. Tip burn noted due cold weather. Planting lettuce fields along central coast. Harvest head lettuce fields central, desert valleys. Melon planting Palo Verde Valley. Winter potato harvest Riverside, Kern counties, while planting spring potatoes Kern County. Sweet potatoes planted hotbeds Merced County. Processing spinach progressing nicely. Processing tomato beds planted, treated with pre-emergent herbicides, irrigated central valley. Squash planted under hot caps in Tulare County. Other crops being harvested: Taro root, turnips, various oriental vegetables. Rain or snow most areas. Rangeland continued to improve, mostly good. Supplemental feeding continued, tapering off. Calving continued. Calf weights good to very good.

COLORADO: High pressure remained over the State first part of the week. Temperatures 5 to 10° above normal statewide, no precipitation was reported. A series of upper level storms moved across the State on the 17th through the 20th. First brought up to a foot of snow to the southwest mountains on the night of the 17th, 18th. An additional 3 to 6 in. fell on the 19th, 20th. In the northern, central mountains 6 to 10 in. of snow fell over the weekend. A cold front swept across the eastern half of the State on the 17th. Cold air lingered over the east on the 18th through the 20th with daytime temperatures 10 to 15° below normal.

Care of livestock is the main producer activity.

FLORIDA: Temperatures 4 to 8° above normal. Highs around 80° north, low, middle 80s central, south. Lows around 30° Panhandle, Big Bend, around 50° central, middle 50s interior south. Rainfall Panhandle, Big Bend, under 0.10 in., generally under 0.50 in. western counties of Peninsula, 1.00 to 3.00 in. eastern counties of Peninsula, with 4.00 to 5.00 in. most locations southeast coast.

Soil moisture mostly adequate in field crop production areas. Growers active with spring planting field preparations. Wheat in good condition. Groves, trees had rain many areas, east coast had most. New growth, bloom progressing. Fruit drop minimal, sizes average to small for most types. Early orange harvest slowing. Grapefruit movement increasing with additional labor. Tangelo, Temple, Honey tangerine harvest continuing. Caretakers cutting cover crop, hedging, topping, fertilizing. Major vegetable producing areas received rainfall 17th. Extreme south, southeastern localities received heavy rain, strong winds which damaged several crops. Planting activity decreasing seasonally southern production areas. Field preparation for spring planting increased north central. Harvesting squash started west central. Leading vegetable shipments: Tomatoes, peppers, sweet corn, cabbage, celery. Also available: Snap beans, carrots, chinese cabbage, cucumbers, eggplant, escarole, iceberg lettuce, leaf lettuce, romaine, specialty lettuces, radishes, squash, strawberries, cherry tomatoes. Pasture feed 5% poor, 30% fair, 60% good, 5% excellent. Cattle herds mostly fair to good condition.

GEORGIA: Warm week with little rainfall. Temperatures 5 to 10° above normal. Warmest temperatures mostly 70s, varied from upper 60s northeast to upper 70s southwest. Coldest temperatures upper teens to low 20s mountains, to mostly mid to upper 30s southeast. Rain mainly southeast, northwest counties, most totals under 0.25 in.

Soil moisture adequate to surplus. Warmer temperatures, dry conditions allowing increased field activity. Land preparation about forty percent complete. Nitrogen applications to small grains near half-way mark south, just beginning in north. Many fields still too wet. Warmer weather improved small grain growth, conditions fair to mostly good, statewide. Peaches good to excellent, early varieties blooming extreme south. Concern in northern areas about peaches blooming too early. Tobacco bed preparation nearly three-quarters finished, plants mostly good to excellent. Onions good, warmer temperatures promoting good growth. Corn planting underway extreme south. Pasture feed poor to fair. Cattle, hogs fair to good.

HAWAII: Continuous heavy soaking rains during week, from low pressure system, until weekend. Flooding in low lying areas. Farming activities reduced. Rainfall 0.02 to 10.70 in. Temperatures high 50s to low 80s.

Spraying activities restricted by wet conditions. Diseases related to humid, moist conditions expected to increase. Cool weather slowed crop progress. Banana shipments moderate. Papaya output expected to be steady.

IDAHO: Temperatures 8° above to 3° below normal. Precipitation none to 0.49 north, 0.01 to 0.31 in. southwest, 0.07 to 0.74 in. south central, none to 0.27 in. east.

Soil moisture adequate. Hay, roughage supplies adequate. Activities: Evaluating fields, marketing, educational, commodity meetings, shop activities, livestock care. Livestock good condition with calving, lambing active.

ILLINOIS: Soils thawed, snow melted last week as temperatures soared well above normal, while precipitation was virtually non-existent until the weekend. Temperatures 12 to 18° above normal with highs mid 40s to low 60s, lows between the 20s to low 40s. Precipitation, mostly on 19th, 20th, was less than 0.25 in. central areas, 0.50 to 1.00 in. far south.

Winter wheat as of 18th 1% excellent, 15% good, 52% fair, 28% poor, 4% very poor. Farmers expressed concerns for winter weather damage to wheat, quality hay supplies, livestock conditions. Soil moisture 49% adequate, 51% surplus.

INDIANA: Temperatures 10 to 18° warmer than normal. High temperatures 50° to the lower 60s. Lows around 30° to around 40°. Precipitation liquid equivalent, trace to 0.66 over the State. Snow cover disappeared.

Wheat condition is some what suspect at this point. Most farmers waiting for the crop to come out of dormancy. Hay supplies reported to be good, with limited amounts of good alfalfa, plenty of other hay. Livestock condition continues to be good with past week of warm weather. Feedlots have become muddy. Main activities this past week included: Grain marketing, maintenance, hauling manure, tax preparation, some fertilizer top-dressing being applied.

IOWA: A phenomenal change in the weather as weekly average temperatures soared 28° from previous week to levels 10 to 18° above normal. Extremes 9°; 64°. Dry until the weekend when showers, thunderstorms brought unseasonably heavy rain to the southeast third of the State. Rainfall only a trace most of northwest one half of State to 1.92 in. extreme southeast; State average 0.28 in. (normal 0.27 in.). Rapid snowmelt, ice jams caused localized, mostly minor, flooding in many areas at the weekend. Substantial pockets of "high moisture" snow cover remain in the far north; snow cover gone elsewhere.

Livestock stress changed from cold, snowy to damp, muddy. Mud making feeding cattle difficult with considerable waste of an already short supply.

KANSAS: Last week's weather across the sunflower State can best be described as very dry, very warm. Temperatures over all areas were well above normal. Western third 8° above normal, the central third 11° above normal, eastern third 11° above normal. Only a few stations reported measurable precipitation.

Temperatures warmed up to give State a brief taste of spring last week. Daytime temperatures high 60s to low 70s were common across the State on 17th, 18th. Warm weather was short-lived, however, as daytime highs on 20th returned to the mid 30s to low 40s. Precipitation continued to be extremely light last week; however, some much needed moisture arrived on 22nd.

KENTUCKY: Temperatures above normal, afternoon highs reaching the 70s by the weekend. Temperatures low 40s, around 5° above normal for mid-February. Most reporting stations received some rain, amounts were generally less than 0.50 in.

Warmer, drier weather a welcome relief for livestock producers. Farmers busy cleaning up previous ice storm damage. Soil moisture ample, little field activity. Burley tobacco market sales light, only 7 markets remain open in State.

LOUISIANA: Weather data not available.

North fieldwork was further delayed from last week's freezing rainy, cold weather. Fallen limbs, power outages caused by an ice storm the previous week slowed all farm activities. Warmer weather later in the week allowed farmers, ranchers to continue equipment repair, fence repair, headland maintenance, feeding of hay. South fieldwork was limited due to patchy rain, cold weather. Main activities: some spring plowing, cattle tending, grazing of rye grass, feeding of hay, repairing fencing. Sugarcane farmers began spring activities while they continued work on drainage, equipment repair. Strawberry growers began harvesting, marketing their first production of the season. Crawfish harvest picked up with the warmer weather.

MARYLAND & DELAWARE: MARYLAND: Precipitation 0.19 in., normal 0.68 in. Temperature 35.1°, normal 33.2°. Extremes 10°; 65°.

Activities: Caring for livestock. General farm chores. Machinery maintenance. Most of snow, ice melted south, east.

DELAWARE: Precipitation 0.26 in., normal 0.73 in. Temperature 34.7°, normal 34.1°. Extremes 15°; 58°.

Activities: Caring for livestock. General farm chores. Machinery maintenance. Most of snow, ice melted.

MICHIGAN: Extremes -17°; 65°. Precipitation none to 0.73 in. Week started off with average temperatures, a warming trend settled over the State by midweek. Temperatures hit record or near record highs in many parts of the State by the end of the week causing flooding in some areas due to the rapidly melting snow.

Feed supplies are adequate, livestock appear to have made it through the extreme cold of the previous weeks in fairly good condition. Major activities: Caring for livestock, purchasing seed, chemicals for spring planting, spreading manure, pruning fruit trees, preparing income tax.

MINNESOTA: Temperatures 5 to 12° above normal for the State. Extremes -11°; 56°. Precipitation 0.10 to 0.25 in. below normal for the State. Greatest weekly precipitation 0.10 in. Snow depth at weekend none to 20 in. for State. Mild warmup by mid-week started the spring thaw in State. Temperatures reached low 50s throughout the southern part of the State on 18th causing the snow cover to rapidly disappear.

MISSISSIPPI: Weather data not available.

Days suitable for fieldwork 1.3, 1.1 1993, 1.2 5 yr avg. Soil moisture 33% adequate, 56% surplus, 11% excessive. Hay supply 12% very short, 50% short, 38% adequate. Livestock 5% poor,

45% fair, 50% good. Pasture 75% of normal. Activities: Feeding livestock.

MISSOURI: Temperatures 5 to 18° above normal across State, cooler end of week. Precipitation 0.76 in., coming mostly toward end of week. North central, northeastern, west central, southeastern districts over 1.00 in.

Mild weather was helpful for moving hay, repairing fences, machine maintenance, other farmyard work.

MONTANA: Temperatures 5 to 10° above normal west, central, while near normal east. Precipitation moderate west, none to light central, east.

Protectiveness of snow cover for winter wheat mostly good, some areas lost snow cover to warm temperatures. Grazing is mostly difficult. Farm, ranch activity mostly livestock care, feeding, general maintenance. Calving, lambing is off to a good start.

NEBRASKA: Temperatures 7° above normal northwest to 14° above normal east central. Light precipitation occurred averaging less than 0.10 in. most areas.

Producer activities included crop year planning, equipment maintenance, routine chores, livestock care.

NEVADA: Low pressure brought clouds, some winds mid-week. Another system followed bringing rain, snow western areas, heavy snows to eastern Sierra end of period. Temperatures slightly above normal northern half, slightly below southern half. Extremes -16°; 68°.

Precipitation received greatly improved outlook for irrigation water this year. Fieldwork starting extreme south. Calving, lambing, continuing. Major activities: Care, feeding of livestock, general maintenance, preparing for spring work.

NEW ENGLAND: Precipitation none to 0.41 in. regionwide. Temperatures 5 to 22° north; 16 to 25° south. Maximum temperatures 30 to 56° north; 33 to 60° south. Minimum temperatures -21 to 4° north; -15 to 8° south.

Major farm activities: Caring for livestock. Getting greenhouses cleaned, geared up for production. Southern States are preparing for first run of maple syrup. Moving apples, potatoes out of storage.

NEW JERSEY: Temperatures near normal; 29° north, 36° south, 37° coastal. Extremes -8°; 70°. Precipitation was below normal; averaging 0.02 in. north, none south, coastal. Heaviest 24-hour total 0.07 in. on 20th, 21th. No snowfall during the week across the State. Snow on ground on 22nd with little in south, 2 to 10 in. central, north.

Farmers busy caring for livestock, tending to other normal winter chores.

NEW MEXICO: Temperatures for State about 3.5° above normal for the week. Extremes: -6° northern mountains; 83° south central desert. Most precipitation was confined to the northern half of the State with higher totals around 0.75 in.

Farming activities are gradually increasing with preparation for spring planting becoming more active.

NEW YORK: Below normal temperatures from the northeast border through the Adirondacks. Rest of State near normal, temperatures averaged from mid teens to mid twenties. Extremes -20°; 63°. Below normal precipitation trace to near 0.50 in.

Major activities: Tending livestock, spreading manure, general maintenance work, attending meetings, snow removal. Snow-melt flooding from warm temperatures made it difficult to use equipment to bring hay in from fields, spread manure.

NORTH CAROLINA: Temperatures near normal. Largest positive departures were in the southern piedmont, southern coastal plain. Rainfall 0.73 in. at Elizabethtown to no precipitation at most locations.

Major activities: Plant bed, land preparation, general maintenance, tending livestock.

NORTH DAKOTA: Temperatures 2 to 5° above normal. Extremes -18° north central; 46° southeast.

Warmer weather significantly reduced snow cover in some areas. Snow cover was sufficient to protect winter wheat, rye, alfalfa. Cattle, sheep condition improved with warmer temperatures. Feed supplies remained adequate. Calving, lambing were well underway in some areas. Secondary roads were clear. Grain marketing continued as storage space became available at local elevators.

OHIO: A temporary change in the jet stream pattern brought spring like weather to the State over the weekend. Conditions were much drier, warmer than normal over the seven day period. High temperatures the upper 40s to lower 50s north to the mid 50s, low 60s in south, which was 12 to 17° above normal. Lows the mid 20s to mid 30s north to the upper 20s to upper 30s in south, which was mostly 6 to 18° above normal. Warmest temperatures of the period ranged from the 60s the north to the mid 70s the south. Liquid precipitation less than 0.10 in. the north to around 0.40 in. the southeast. This was drier than normal by around 0.30 to 0.50 in. across much of the State. Snow, ice cover melted across much of the State, leaving topsoil conditions saturated or near saturation.

Because of saturated topsoil conditions, pastures were in stress. Livestock were removed from these areas to allow soils to firm. Animals were consequently corralled. Winter wheat remained in good condition this past period.

OKLAHOMA: Temperatures 8° above normal Panhandle to 13° above normal northeast. Precipitation none Panhandle, west central, southeast to 0.98 in. east central.

Warm temperatures accompanied by some badly needed rain helped small grain development advance in most areas of the State. Panhandle, many western producers continue dry. Feeders, calves steady to \$2.00 higher.

OREGON: Temperatures above normal statewide; western sections 1 to 3°, 1 to 9° eastern above normal. Precipitation heavy in western areas, 5.00 in. at the coast, 2.50 in. western valleys; eastern precipitation very light.

Soil moisture adequate. Cascade snowpack substantially increased. Winter orchard pruning continued. Livestock good to excellent. Lambing, calving underway statewide. Supplemental feeding continued, statewide.

PENNSYLVANIA: Dry mild week. Much of the snow cover diminished. Temperature 34°, 8° above normal. Extremes -10°; 70°. Precipitation 0.03 in., 0.60 in. below normal.

Activities: Hauling manure; fixing fence; caring for livestock.

PUERTO RICO: Island rainfall 0.34 in. was 0.23 in. below normal. Highest rainfall 1.84 in. Pico del Este, 0.87 in. Canovanas, 0.80 in. Maricao 2SSW. Highest 24 hour total 0.80 in. at Maricao 2SSW. Island temperatures 75 to 78° on Coasts, 69 to 73° in Interior with mean station temperatures 78.3° at Guayama to 62.2° at Pico del Este Luquillo. Extremes 45°; 92°.

SOUTH CAROLINA: Temperatures 7 to 9° above normal across State. Little or no precipitation.

Farm activities: Small grain condition good. Tobacco beds good. Adequate moisture. Land preparation underway. Livestock good.

SOUTH DAKOTA: Temperatures 1° below normal to 11° above normal. Extremes -9°; 64°. Precipitation generally light, most locations none. Maximum 0.80 in. Snow depth less than 1 in. extreme south to 24 in. northeast.

Activities: Routine livestock care, moving snow to reach feed supplies, hauling grain, attending livestock production sales.

TENNESSEE: Temperatures 6 to 12° above normal across the State, with west being the warmest. High temperatures were in the lower 70s at weekend. Low temperatures in the east, Plateau remained below freezing until late in the week. Rainfall was well below normal for the week. No significant amounts fell until the 19th. Amounts on the 19th little or none in east to between 0.50 to 1.00 in. middle, west.

Farmers were still busy picking up remains from the ice storm of a week ago. Livestock damage appears to have been minimal. Wheat is in mostly good condition. Soil moisture levels are adequate to surplus.

TEXAS: Very warm winter conditions presided. General flow pattern shifted to more westerly direction and completely cut off cold air from Canada. Storm Pacific systems started to track across country, remained well to north. As result a rather warm, settled pattern developed. Toward end of week a strong storm system moved into Plains, set up direct flow off Gulf of Mexico. Very moist air moved northward over eastern edge of State, set stage for showers at weekend. Data reflect warm week across State. For temperatures, departures +3° in Lower Valley up to +8° in Edwards Plateau, North Central districts. Although many areas received some rain totals were still below par except in East Texas. Departures from normal ranged from -0.09 in. Trans Pecos to -0.78 in. along the Upper Coast. East Texas district had a departure of +0.12 in.

Crops: Corn planting was active in Rio Grande Valley with favorable conditions. Some fields were also being planted in Coastal Bend, South Central areas, as far north as Blacklands. Sorghum planting began in Rio Grande Valley. Small grains responded well to warmer conditions following recent cold temperatures. However, conditions remain very dry throughout State. Freeze damage from previous week was becoming evident in some small grain fields. Greenbugs were present in many fields across Southern Low Plains, Cross Timbers. Fertilizer topdressing continued in some areas. Wheat 57% normal, 68% 1993.

Commercial Vegetables: Rio Grande Valley onion fields continued to make good progress. Harvest of cabbage, carrots, broccoli, cauliflower continued. Planting of melons was active. Harvest of grapefruit continued while harvest of late oranges got underway. High Plains land preparations for vegetables continued ahead of normal schedule. San Antonio-Winter Garden vegetables made good progress, land preparation continued. Irrigation of onion fields continued. Some producers were getting ready to transplant tomatoes. Harvesting of late cabbage was taking place. East Texas land preparation continued while planting of potatoes, onions, and peas was in progress. Early planted fields made good progress. Trans-Pecos good growth was reported on onion fields. Field preparation for vegetable planting continued. Peaches pruning, dormant oil spraying continued in northern half of State as cold weather from previous week slowed budding. With warm weather some trees have begun to bloom throughout southern half of State.

Range and Livestock: Supplemental feeding continued in most areas as hay supplies continued to dwindle. Ranges, pastures across much of State remained short mostly because of dry conditions. Cattle were being moved off wheat fields planted for grain in High Plains. Livestock conditions remained fair to good. Spring calving was underway in most areas.

UTAH: Temperature maximums averaged 0.5° above normal, minimums 0.5° below normal. Precipitation was light in western division, light to moderate in southeast, Uinta Basin divisions, moderate to heavy across the rest of the State.

Major farm activities: Machinery maintenance, yard cleaning, calving, lambing, marketing various commodities, taxes. Mild weather has been good for calving, lambing. Feed surpluses were reported in some areas, excess feed supplies were being shipped out in some cases.

VIRGINIA: Temperatures near normal the beginning of week, rose to above normal the end of the week. Extremes 17°; 73°. No precipitation was observed for week.

Days suitable for fieldwork 1.2. Topsoil 22% adequate, 78% surplus. Winter grains, grazing crops condition 1% very poor, 13% poor, 71% fair, 15% good. Forage from pastures, winter grazing crops dairy cattle 2%, beef cattle 5%, sheep 6%. Cleaning up after ice storms, tending to livestock, tobacco growers preparing, building greenhouses, repairing machinery, fixing fences working on farm records, some topdressing small grains.

WASHINGTON: Temperatures 1 to 4° above normal west; 5 to 12° above normal east. Precipitation 1.06 to 5.23 in. west; none to 1.09 in. east.

Days suitable for fieldwork 4.1. Soil moisture 45% short, 54% adequate, 1% surplus. Hay, other roughage supplies 15% short, 85% adequate. Range, pasture 25% very poor, 15% poor, 45% fair, 15% good. Winter wheat dryland 5% poor, 40% fair, 55% good; irrigated 3% fair, 95% good, 2% excellent. Barley dryland 5% very poor, 5% poor, 80% fair, 10% good; irrigated 10% fair, 90% good. Warmer weather returned to the State, bringing the precipitation with it; up to 5.00 in. along the coast. Winter grains seemed to have survived the recent cold snap with little damage, lack of snow cover continued to worry many producers. Lack of winter precipitation remained a major concern for 1994. Many producers were already making planting and production plans based on an irrigation water shortage. Spring fieldwork began in some areas in preparation for the upcoming planting season. Pruning continued as weather permitted. Some reports of fruit tree damage were received due to the recent cold spell. Pastures were starting to green-up, livestock were still on winter feed. Spring calving, lambing continued with few reports of disease problems.

WEST VIRGINIA: Temperature 43°. Extremes 15°; 77°. Precipitation 0.25 in. Temperatures averaged well above normal statewide. Precipitation was below normal.

Farm activities: Calving, lambing, feeding livestock, bookkeeping, general maintenance.

WISCONSIN: Temperature 28°. Extremes -5°; 57°. Unseasonably mild with flooding conditions at weekend.

Very warm week provided an opportunity to market livestock; to do some much needed manure spreading early in the week. Some lowland flooding has occurred. Snow cover in most areas is gone.

WYOMING: Temperatures at or above normal over most of the State. Isolated areas of the far north, west had below normal temperatures. Cody 9° above normal. Coldest was Afton 8° below normal. Precipitation was mostly below normal. Moran received the largest amount of precipitation with 0.25 in.

Winter wheat condition was good. Wind damage to winter wheat was mostly light. Livestock condition for cattle, sheep was good. Grazing prospects were fair. Hay, roughage supplies were adequate. Spring calving, farm flock lambing have started. Farm flock sheep are being shorn.

International Weather and Crop Summary

HIGHLIGHTS

February 13 - 19, 1994

EUROPE: Much colder weather stressed winter crops in eastern Europe.

AUSTRALIA: Showers stabilized yield prospects for eastern summer crops.

SOUTH ASIA: Warmer, drier weather covered India's winter crops but needed rain was moving across Pakistan.

SOUTHEAST ASIA: Unusually hot weather threatened rice seedlings across Thailand, although unseasonable rain brought some relief to the east.

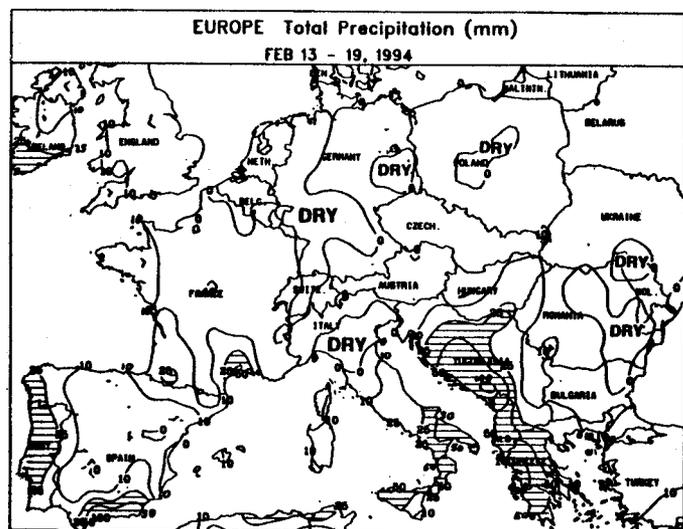
EASTERN ASIA: Seasonably dry weather returned to the North China Plain.

SOUTH AFRICA: Wet weather continued throughout western corn areas, but drier, warmer weather benefited filling crops in the east.

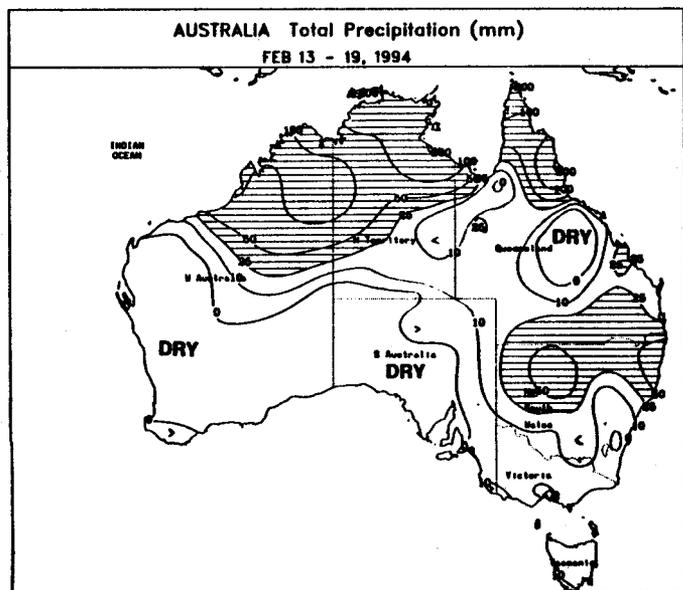
SOUTH AMERICA: Heavy rains caused local flooding across southern Brazil.

NORTHWESTERN AFRICA: Rain benefited winter grains in Morocco, Algeria, and Tunisia.

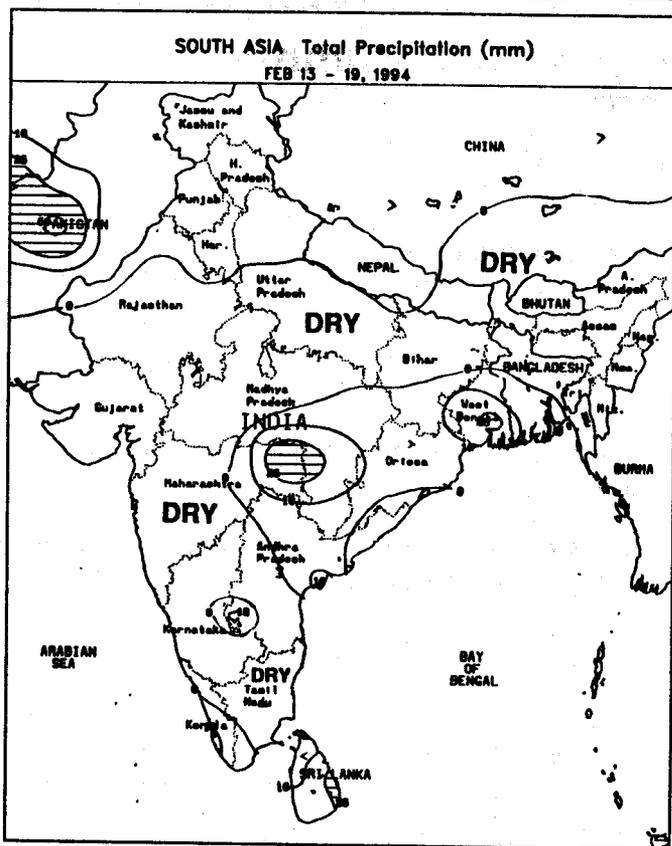
FSU-WESTERN: Early-week bitter cold likely caused localized winterkill in southern winter grain areas.



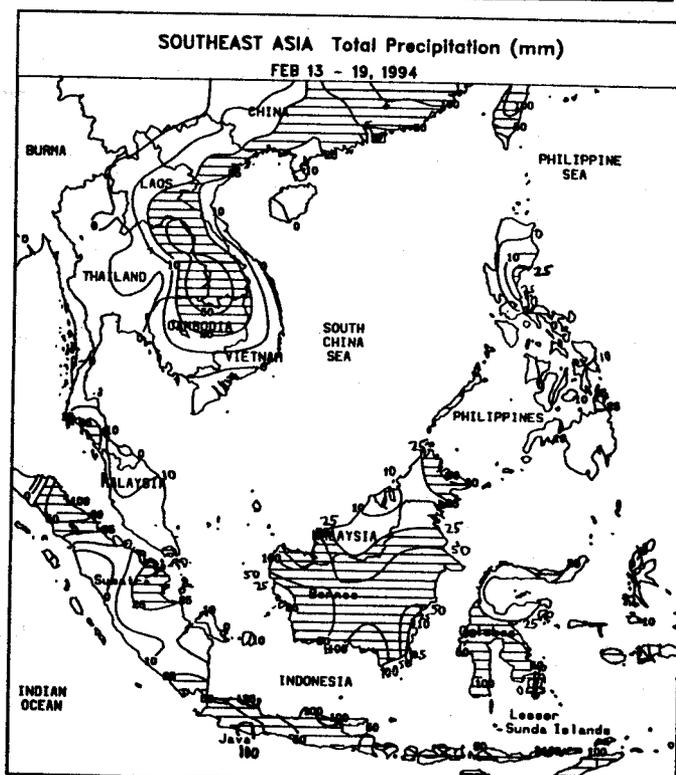
EUROPE: Much colder air swept into eastern crop areas, ending the prolonged, unseasonably mild weather since late December. Weekly temperatures averaged 4-8 degrees C below normal throughout eastern Europe, with daily minimum temperatures ranging from -24 to -17 degrees C in eastern Poland, the Czech Republic, and eastern Romania. After losing winter hardiness during the earlier mild weather, winter grains were vulnerable to winterkill. Light precipitation (5 mm or less) fell over northeastern Europe, providing only a shallow blanket of protective snow cover. Snow cover was patchy in western Poland and in eastern portions of Romania and Bulgaria. Heavier snow fell from eastern Hungary to northern Greece, with weekly precipitation averaging 10-25 mm in Hungary and 50-100 mm in former Yugoslavia, Greece, and southern Italy. Light precipitation (1-10 mm) prevailed over northern and western Europe, where moisture was adequate to abundant. Heavier rain (20-35 mm) benefited winter crop development in Portugal. Although locally heavy showers (30-100 mm) fell along Spain's south coast, eastern Spain continued unfavorably dry.



AUSTRALIA: Scattered showers (10-40 mm) again prevailed across the eastern summer crop region, stabilizing yield prospects for sorghum and cotton. Early-planted (September-November) summer crops would not greatly benefit from the rains. These crops are likely beyond the reproductive stage. Typically, the majority of sorghum and cotton acreage is planted early. Temperatures averaged 2-4 degrees C below normal across the summer crop region, helping to reduce evaporation rates. The northeastern coast of Queensland received scattered showers (10-50 mm), benefiting sugarcane. The extreme northern sugarcane areas (near the city of Cairns) reported torrential rains (125-250 mm), causing flooding.

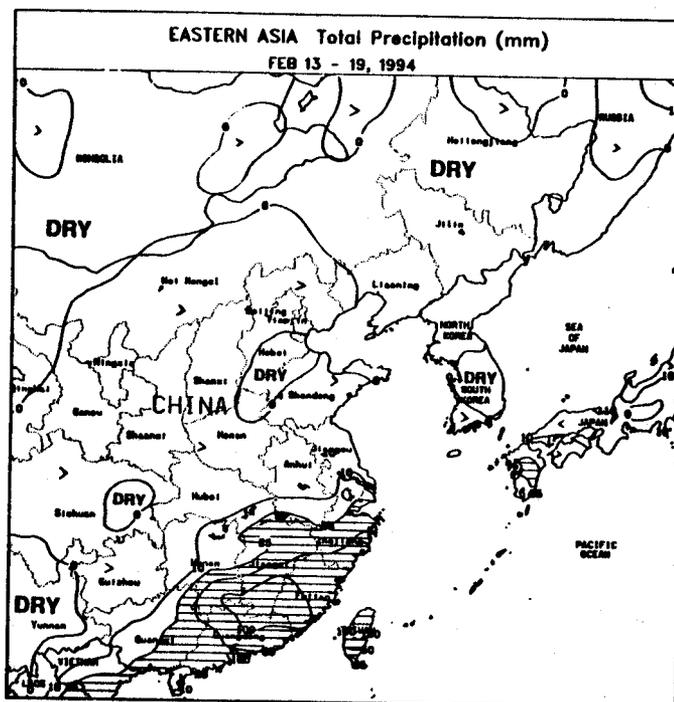


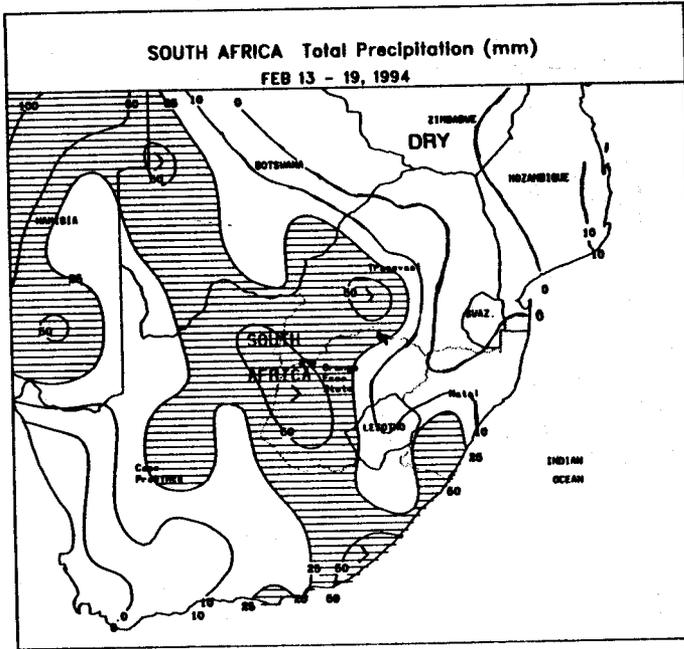
SOUTH ASIA: Drier weather returned to India's northern winter crop areas. Moderate to heavy rain (10-40 mm) continued over central India from eastern Maharashtra to Bangladesh, missing primary crop areas but boosting moisture for local oilseeds and rice. In Pakistan, early-week light rain (3-12 mm) benefited crops in southern Punjab State and by the 21st, rain had reached northern crops and watersheds.



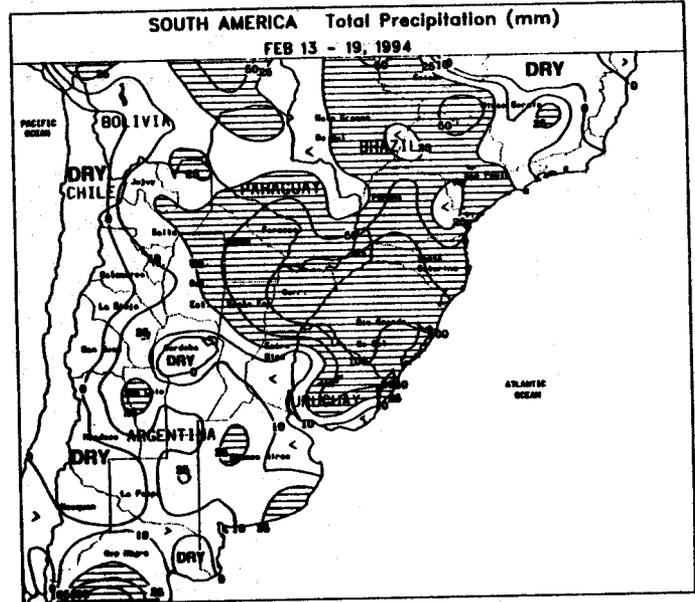
SOUTHEAST ASIA: Unseasonably heavy rain (25-88 mm) fell for the second week from eastern Thailand to Vietnam's Red River Delta, increasing reservoir levels for dry-season rice. However, the rain missed rice areas of northern and central Thailand along the Chao Phraya that continued to experience unusually high temperatures (average temperatures 3-5 degrees C above normal, highs in the upper 30's). The heat increased moisture demands of rice and likely accelerated development of nursery and paddy crops. Further south, rainfall tapered off throughout Indonesia and Malaysia, although many locations throughout Java received 50-100 mm.

EASTERN ASIA: Seasonably dry weather returned to the North China Plain, where weekly temperatures averaged 2-4 degrees C, keeping winter wheat dormant. Moderate to heavy rain (30-100 mm, with isolated amounts greater than 100 mm) covered southeast China, boosting reservoir levels.



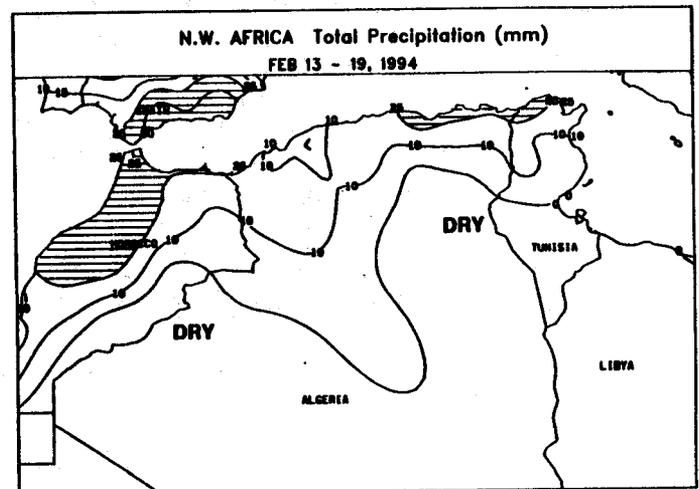


SOUTH AFRICA: Moderate to heavy showers (25-50 mm or more) continued across central and western corn areas. The continued wetness and associated cloudy, cool weather (temperatures averaging 1-2 degrees C below normal) are raising concerns for crop quality in this typically arid region. In contrast, beneficial warmer, drier weather aided filling crops in eastern corn areas. Moderate to heavy showers (25-94 mm) covered crop areas of eastern Cape Province and southern Natal, but rainfall was light (10 mm or less) over much of the sugarcane region.

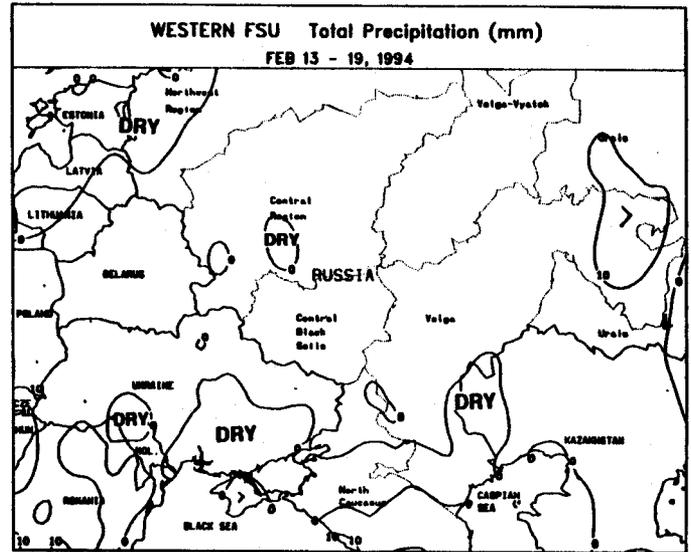


SOUTH AMERICA: In southern Brazil, almost daily showers produced weekly rainfall totals of 50-150 mm across Rio Grande do Sul and Parana, causing local flooding. Isolated stations reported amounts in excess of 175 mm. The heavy rains had little or no widespread negative impact on reproductive to filling soybeans. However, drier weather is needed the next few weeks to prevent potential disease and quality problems. Elsewhere, moderate showers (25-60 mm) fell across Mato Grosso do Sul, Mato Grosso, and Goias, favoring filling soybeans, but slowing early-summer crop harvesting. Temperatures averaged 1-2 degrees C below normal across extreme southern Brazil and 2-4 degrees C above normal across the rest of the growing areas. In Argentina, light to moderate showers (10-30 mm) fell across southern Santa Fe and most of Buenos Aires, aiding vegetative to reproductive summer crops. Along with the beneficial rain, temperatures averaged 1-2 degrees C below normal, reducing crop water use. Heavy showers (40-100 mm) covered northern Argentina, possibly damaging early-maturing cotton. Southern Paraguay also received moderate to heavy showers (30-80 mm), aiding reproductive to filling soybeans.

NORTHWESTERN AFRICA: Widespread light to moderate rain (10-25 mm, with local amounts in excess of 25 mm) benefited winter grains in Morocco, Algeria, and Tunisia. Rain over Morocco maintained a favorable moisture pattern that has covered winter grains since the beginning of the growing season. In eastern Algeria and Tunisia, significant rain in recent weeks has reversed unfavorable dryness that lasted since planting, improving prospects for winter grains in the vegetative stage. However, continued rain is needed in upcoming weeks as crops advance through reproduction.

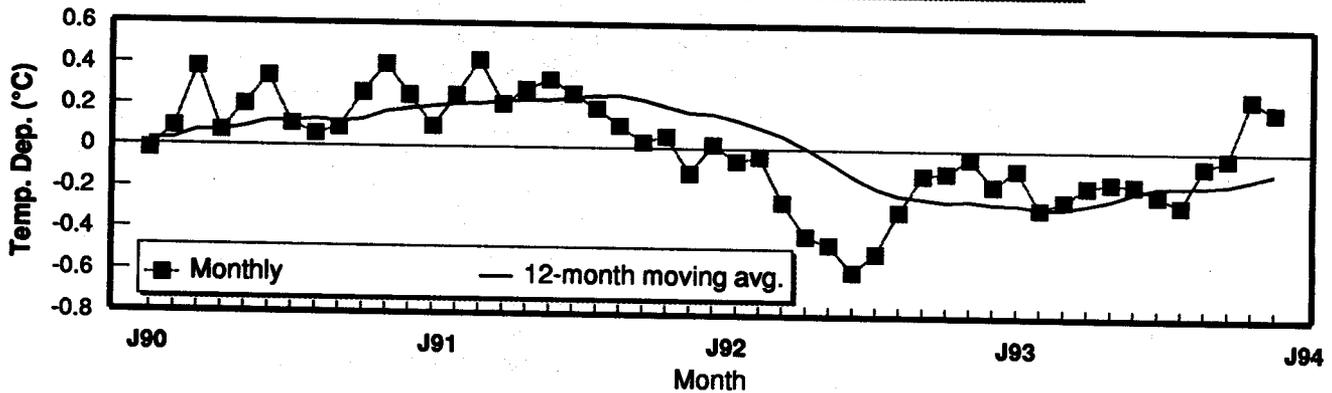


FSU-WESTERN: Early in the week, bitter cold prevailed over winter grain areas as far south as southern Ukraine and North Caucasus, Russia. Lowest temperatures, ranging from -32 to -17 degrees Celsius (C), exceeded the threshold for potential winterkill in Ukraine and North Caucasus, Russia, where snow cover was shallow or non-existent. In northern Russia, Belarus, and the Baltic States, a moderate to deep snow cover provided adequate protection. On February 15, temperatures began to gradually moderate in these areas, improving overwintering conditions for crops. Weekly average temperatures were 2-8 degrees C below normal over the region. Dry weather continued over most winter grain areas, preventing any further increase in snow cover.



No. Hemisphere Temperatures

Departures from the 1982-91 mean



Data from J.Christy, Univ. of Alabama, and R.Spencer, NASA Marshall Space Flight Center

Though winter-weary residents of the U.S. Midwest and Northeast might find it hard to believe, Northern Hemisphere (and global) temperatures during January 1994 were actually slightly above "normal." At least that is the message from the satellite Microwave Sounding Unit data, which indicate that hemispheric temperatures averaged 0.20°C above the 1982-91 January mean. The trend continues to approach the 10-year mean, as temperatures recover from the cooling associated with the 1991 eruption of Mt. Pinatubo.

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), 53d Congress, 3d 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 Weekly Weather and Crop Bulletin, NOAA/USDA, Joint Agricultural Weather Facility, USDA South Building, Room 5844, Washington, DC 20250. Order subscriptions from the office and address listed above. First class postage paid at Washington, DC, and additional mailing offices.

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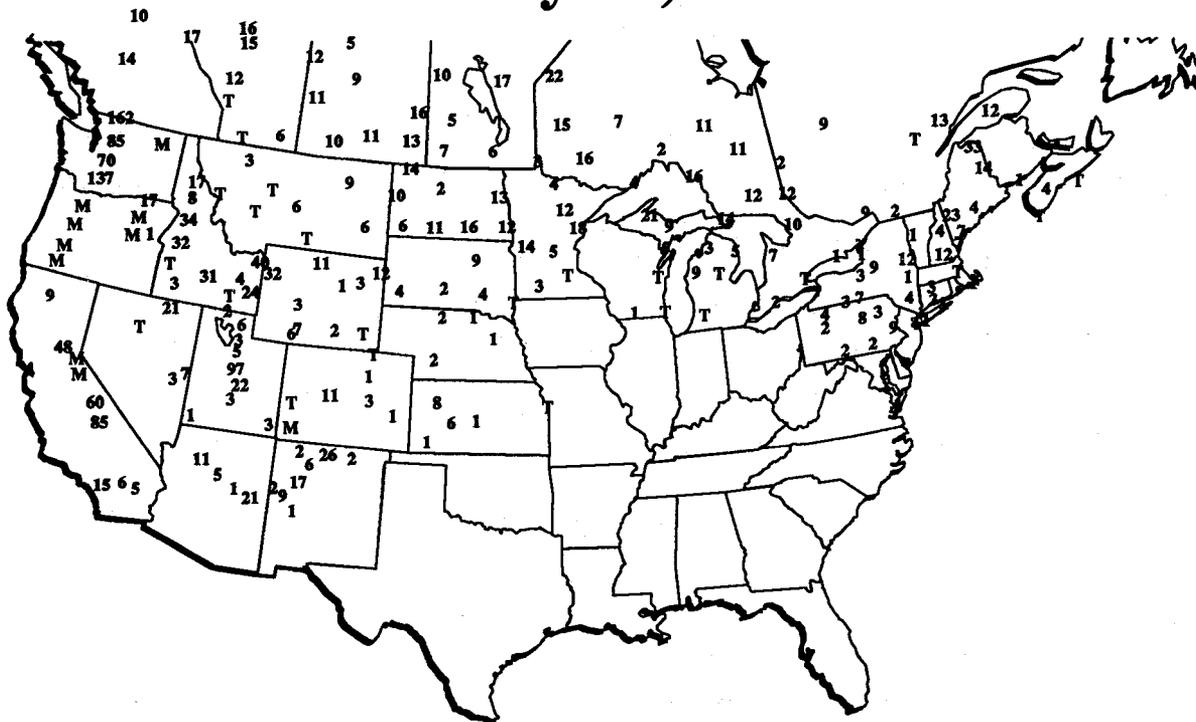
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Total Snow Cover (Inches)

February 22, 1994



NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY Based on preliminary reports

NOAA/USDA Joint Agricultural
Weather Facility
USDA South Building, Room 5844
Washington, DC 20250

WEEKLY NEWS BULLETIN FIRST CLASS

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PENALTY FOR PRIVATE USE, \$300