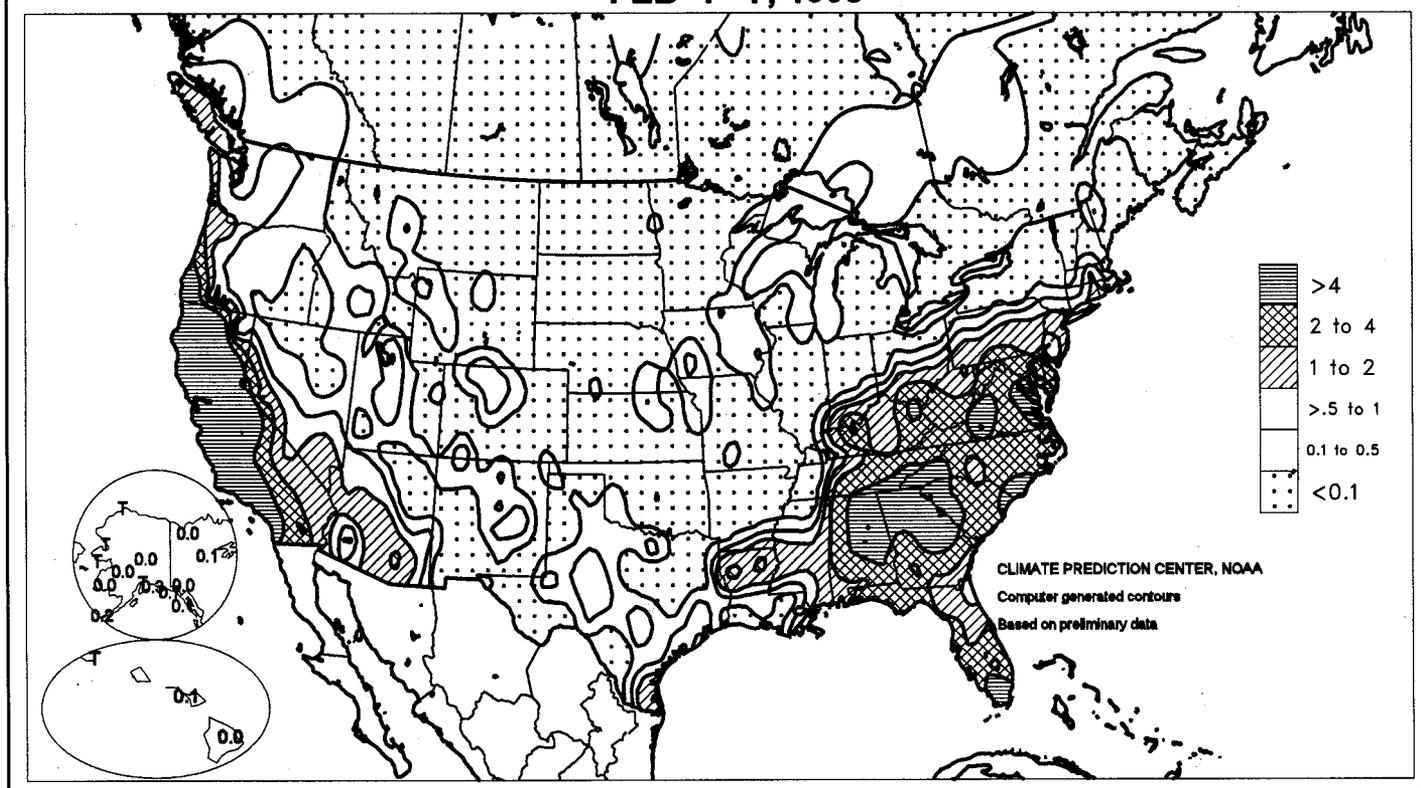


WEEKLY WEATHER AND CROP BULLETIN

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

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

Total Precipitation (Inches)
FEB 1 - 7, 1998



HIGHLIGHTS

February 1 - 7, 1998

While a Pacific storm chain battered the West Coast, another major storm in the Southeast dumped record snowfall in the Ohio Valley and sparked damaging winds in Peninsular Florida. Both the West and East Coasts endured heavy surf and erosion, and inland areas experienced flooding of varying degrees. In contrast, dry, mild weather prevailed in the northern and central Plains and New England. Drier-than-normal conditions have persisted on the northern Plains for 4 months. Weekly temperatures averaged above normal nearly nationwide, ranging from 3 to 18°F above normal on the northern Plains. Departures reached +12°F in the Northwest and +10°F in the Northeast.

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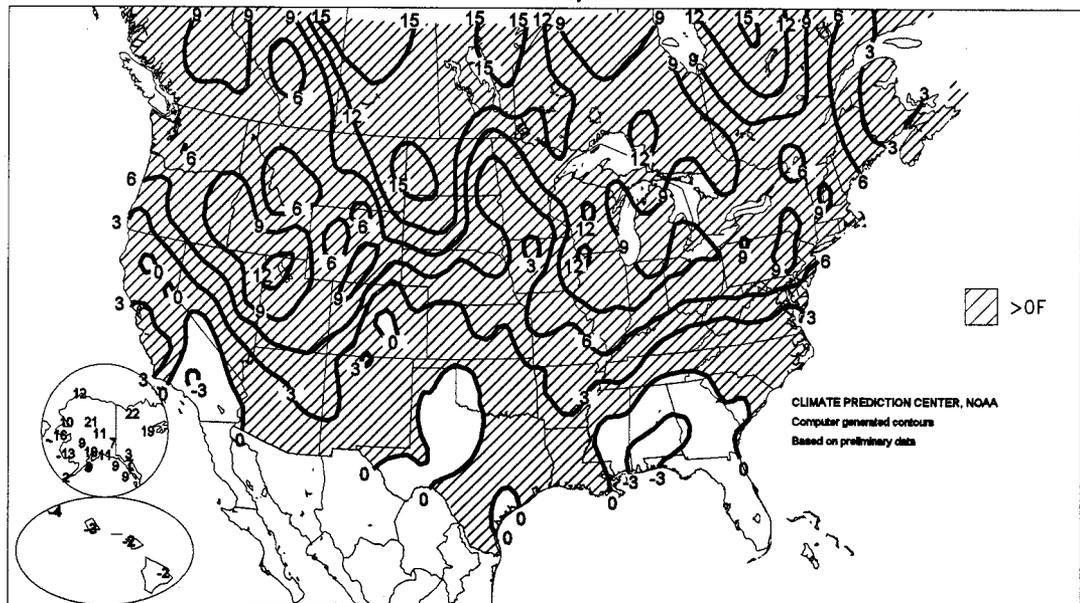
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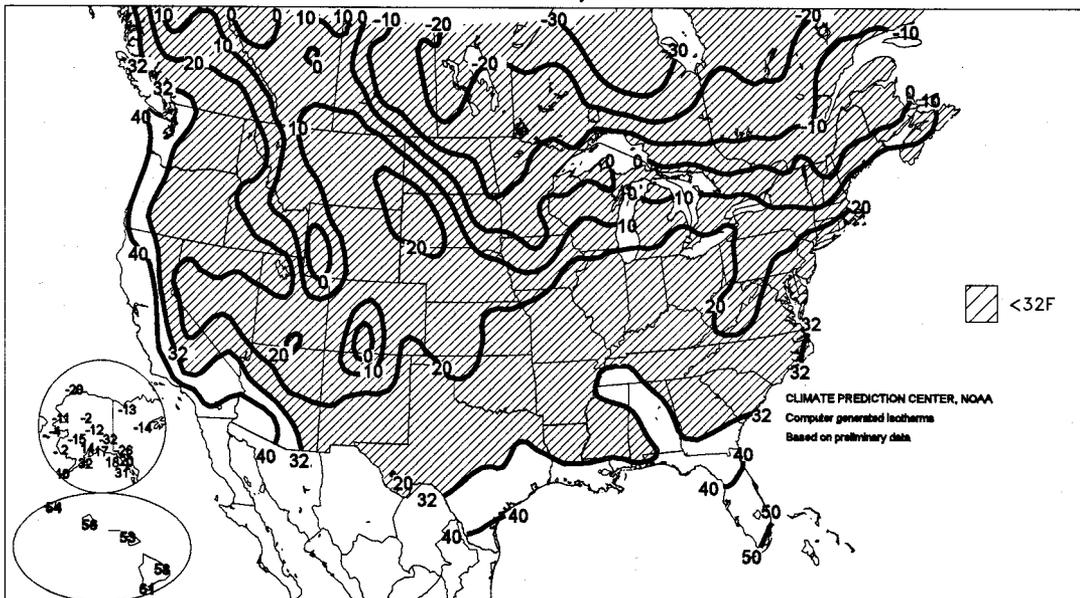
During the 264-hour (11-day) period ending at 4 p.m. PST on February 8, rainfall in the **San Francisco Bay** area reached 14.57 inches at the **Marin Civic Center**, 14.34 inches in **Kentfield**, 11.79 inches in **Santa Rosa**, and 11.12 inches in downtown **San Francisco**. On Monday, wind gusts were clocked to 81 mph in coastal **San Mateo County** (**Pigeon Point**) and 56 mph in **Bakersfield**. A day later, a record flood (1.8 feet above flood stage) occurred on the **Pajaro River** at **Chittenden**, surpassing the April 1958 record by 0.7 feet. The **Napa** and **Russian Rivers** also crested on Tuesday at most gauging points. The **Napa River** at **St. Helena** peaked at 3.6 feet above flood stage, but 1.9 feet below the record set in February 1986 and March 1995. Similarly, the **Russian River** at **Guerneville** crested about 6.6 feet above flood stage, but more than 10 feet below the February 1986 high-water mark. Late-week rains brought renewed rises to many rivers. On Saturday, the gauge at **Guerneville** recorded a crest at 4.0 feet above flood stage. The late-week storms also delivered another round of high winds, which on Friday gusted to 94 mph on **Cooskie Mountain**, south of **Eureka**.

The 11-day precipitation in **California's** foothills included 14.54 inches at **Blue Canyon**, 13.88 inches in **Mount Shasta**, and 11.33 inches in **Redding**. In the **Sierra Nevada**, water content of the snow pack increased to 30 inches (147 percent [%] of normal by February 8, up from

Departure of Average Temperature from Normal (°F) FEB 1 - 7, 1998



Extreme Minimum Temperature (°F) FEB 1 - 7, 1998



20 inches (107%) at the end of January and 9 inches (74%) on January 1. February 2-3 snowfall rates reached 37 inches in 24 hours in **Crestview, CA**. Storminess spread into the **Southwest** by midweek, resulting in 2.44 inches of rain near **Laughlin, NV** and 36 inches of snow on **Mt. Lemmon, AZ**, near **Tucson**. Meanwhile in **southern California**, January 28 - February 8 (264-hour) rainfall included 13.52 inches in **Ventura**, 12.56 inches in **Oxnard**, and 11.58 inches in **Santa Barbara**. In addition, winds on the night of February 2-3 were clocked to 86 mph in **Lompoc** and 78 mph in **Cuyama**. **Southern California's** most serious flash flooding occurred on February 2-3 and 6-8.

(Continued on page 7)

National Weather Data for Selected Cities

Weather Data for the Week Ending February 7, 1998

Data Provided by Climate Prediction Center (301-763-8000 EXT. 7511)

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	AVERAGE MINIMUM	90 AND ABOVE	92 AND BELOW	PRECIP.			
																		01 INCH OR MORE	50 INCH OR MORE		
AL BIRMINGHAM	48	37	58	34	41	-2	3.24	2.11	2.62	15.40	138	11.30	182	93	71	0	0	3	3	2	
HUNTSVILLE	43	35	56	32	39	-1	3.40	2.27	2.97	14.23	117	10.94	174	91	70	0	3	3	1		
MOBILE	55	40	62	30	48	-3	1.08	-0.18	0.76	22.37	198	18.00	300	88	56	0	1	3	1		
AK ANCHORAGE	49	39	63	34	44	-3	2.88	1.61	1.65	13.25	119	8.74	147	84	62	0	0	2	2		
BARRROW	31	23	34	14	27	10	0.02	-0.17	0.02	2.07	100	0.41	42	88	72	0	7	1	0		
FAIRBANKS	0	-10	14	-19	-5	12	0.01	-0.02	0.01	0.09	33	0.01	7	84	79	0	7	1	0		
JUNEAU	13	-7	25	-12	3	11	0.00	-0.11	0.00	2.05	148	0.00	0	91	81	0	7	0	0		
KODIAK	40	27	43	20	34	7	-	-	-	-	-	-	-	94	71	0	6	-	-		
NOME	41	36	43	32	39	9	-	-	-	-	-	-	-	96	85	0	1	-	-		
AZ FLAGSTAFF	30	11	36	-4	20	18	0.01	-0.16	0.01	1.98	109	1.04	108	86	66	0	7	1	0		
PHOENIX	43	22	54	14	33	2	0.40	-0.10	0.30	3.55	72	1.70	67	93	46	0	7	2	0		
PRESCOTT	68	48	75	44	57	1	0.56	0.41	0.55	1.74	97	0.91	111	80	36	0	0	2	1		
TUCSON	51	31	57	25	41	3	0.18	-0.20	0.13	3.47	100	1.01	53	86	37	0	3	3	0		
YUMA	68	42	77	38	54	1	1.10	0.92	0.67	4.15	196	1.27	121	75	33	0	0	3	1		
AR FORT SMITH	69	49	75	45	59	0	0.56	0.50	0.54	3.39	394	0.60	150	80	37	0	0	2	1		
LITTLE ROCK	53	33	62	25	43	4	0.00	-0.53	0.00	12.28	224	7.78	319	93	54	0	4	0	0		
CA BAKERSFIELD	54	38	62	29	46	5	0.00	-0.82	0.00	8.72	100	4.97	125	78	46	0	1	0	0		
EUREKA	62	45	68	39	54	2	2.08	1.84	0.97	4.52	263	3.41	307	90	62	0	0	5	2		
FRESNO	-	-	-	-	-	-	2.94	-	-	20.97	-	-	16.24	-	-	-	-	-	6	3	
LOS ANGELES	59	46	64	40	52	3	0.88	0.43	0.39	5.43	142	4.49	186	90	80	0	0	6	0		
REDDING	61	50	63	47	56	-2	6.39	5.78	3.09	13.86	296	10.14	335	94	71	0	0	5	4		
SACRAM/MCCLELL	51	45	54	43	48	-2	6.89	5.88	1.83	23.80	187	20.52	283	96	84	0	0	7	6		
SAN DIEGO	59	49	64	48	55	-	6.70	-	2.15	15.86	-	13.41	-	85	72	0	0	7	3		
SAN FRANCISCO	63	53	65	51	58	0	1.77	1.38	1.52	5.80	153	4.46	202	90	63	0	0	3	1		
ALAMOSA	59	51	61	49	55	4	7.80	6.93	2.42	21.35	257	16.07	307	92	69	0	0	7	5		
CO SPRINGS	38	9	40	0	23	4	0.02	-0.04	0.01	0.21	27	0.02	6	96	55	0	7	2	0		
DENVER	37	21	47	12	29	-1	0.00	-0.07	0.00	0.16	20	0.06	17	96	59	0	7	0	0		
GRAND JUNCTION	42	22	49	18	32	1	0.00	-0.11	0.00	0.61	49	0.02	3	89	46	0	7	0	0		
PUEBLO	47	29	52	22	38	8	0.04	-0.07	0.03	0.65	61	0.51	78	88	54	0	6	2	0		
BRIDGEPORT	41	21	54	15	31	-2	0.02	-0.04	0.02	0.50	62	0.12	32	96	61	0	7	1	0		
HARTFORD	42	30	48	24	36	8	0.72	-0.02	0.47	6.69	116	5.34	135	86	52	0	5	2	0		
WASHINGTON	42	26	48	21	34	9	0.14	-0.68	0.06	5.69	70	3.51	83	79	48	0	7	2	0		
DC WASHINGTON	46	35	49	28	40	4	2.52	1.86	2.01	9.69	149	7.94	234	88	57	0	2	3	1		
DE WILMINGTON	45	32	48	26	38	7	0.42	-0.30	0.30	7.79	107	5.22	139	85	52	0	3	2	0		
FL DAYTONA BEACH	66	49	75	42	57	-1	1.17	0.41	0.97	13.26	218	5.50	157	91	58	0	0	4	1		
JACKSONVILLE	62	45	73	35	54	0	1.26	0.31	0.85	14.48	207	4.76	112	90	62	0	0	3	1		
KEY WEST	73	62	78	57	67	-2	3.89	2.82	2.34	9.93	220	5.51	220	82	66	0	0	3	2		
MIAMI	72	59	77	51	65	-2	4.80	4.30	4.48	11.11	254	5.94	232	86	63	0	0	4	1		
ORLANDO	68	50	76	39	58	-2	1.54	0.85	1.20	16.16	314	3.53	118	94	59	0	0	3	1		
TAMPA	68	53	74	48	59	-1	2.57	1.88	2.34	22.78	473	7.21	270	87	63	0	0	4	1		
VALPARAISO/EGLIN	56	41	63	34	48	-4	3.29	2.30	2.69	18.69	199	13.19	254	90	55	0	0	2	2		
WEST PALM BEACH	70	55	75	46	62	-3	0.29	-0.34	0.21	16.50	280	11.46	336	87	56	0	0	4	0		
GA ATHENS	48	36	53	29	42	-1	4.54	3.47	2.29	16.32	167	10.41	183	90	65	0	3	3	2		
ATLANTA	45	35	53	31	40	-2	3.87	2.71	2.29	14.81	145	9.76	166	91	68	0	4	3	3		
AUGUSTA	54	37	57	24	46	0	2.80	1.77	1.85	17.24	203	10.30	203	90	62	0	2	4	2		
COLUMBUS	50	39	60	35	44	-3	1.39	0.24	0.69	11.30	106	4.58	80	86	64	0	0	3	2		
MACON	51	37	59	27	44	-2	3.85	2.69	2.58	16.46	164	9.19	161	90	63	0	2	3	3		
SAVANNAH	57	41	70	34	49	0	1.46	0.66	1.14	12.96	178	8.97	204	96	70	0	0	3	1		
HI HILO	79	60	82	58	70	-2	0.00	-2.37	0.00	9.05	37	0.20	2	74	48	0	0	0	0		
HONOLULU	79	62	81	58	70	-3	0.13	-0.49	-	1.34	17	0.90	22	78	42	0	0	2	0		
KAHULUI	78	60	81	53	69	-2	0.12	-0.69	0.08	1.98	24	0.48	10	80	53	0	0	2	0		
LIHUE	75	60	79	54	67	-4	0.02	-0.95	0.02	5.95	50	3.36	49	82	49	0	0	1	0		
ID BOISE	53	37	57	31	45	12	0.15	-0.13	0.10	3.54	115	2.89	168	78	45	0	2	3	0		
LEWISTON	51	37	60	31	44	7	0.04	-0.20	0.03	2.42	88	1.82	119	85	61	0	1	2	0		
POCATELLO	45	28	49	19	37	10	0.15	-0.07	0.08	2.79	118	2.13	169	83	63	0	6	3	0		
IL CHICAGO/O'HARE	39	29	45	25	34	12	0.12	-0.17	0.12	4.29	100	2.79	153	88	64	0	6	1	0		
MOLINE	39	25	45	22	32	11	0.28	0.03	0.28	4.58	114	2.82	158	91	69	0	7	1	0		
PEORIA	40	29	45	27	35	12	0.13	-0.17	0.13	4.62	109	2.68	148	88	62	0	7	1	0		
ROCKFORD	37	25	44	20	31	12	0.10	-0.15	0.10	3.23	90	2.39	155	92	67	0	7	1	0		
SPRINGFIELD	41	28	49	24	35	9	0.01	-0.34	0.01	4.19	91	2.44	130	89	64	0	6	1	0		
IN EVANSVILLE	43	30	58	25	37	5	0.85	0.18	0.42	5.43	78	3.09	93	89	59	0	5	3	0		
FORT WAYNE	40	25	48	23	33	10	0.00	-0.42	0.00	5.69	110	3.96	173	85	54	0	7	0	0		
INDIANAPOLIS	43	28	55	25	36	9	0.01	-0.53	0.01	3.85	62	2.62	88	84	50	0	7	1	0		
SOUTH BEND	40	23	47	21	31	8	0.00	-0.44	0.00	5.90	99	3.80	142	86	54	0	7	0	0		
IA BURLINGTON	41	30	46	29	35	12	0.33	0.11	0.33	4.11	120	2.59	179	85	62	0	6	1	0		
CEDAR RAPIDS	38	25	45	22	31	12	0.21	0.02	0.21	2.51	89	1.35	111	89	61	0	7	1	0		
DES MOINES	35	22	44	13	28	7	0.27	0.05	0.25	2.81	105	1.26	108	91	68	0	7	2	0		
DUBUQUE	37	24	44	20	30	12	0.22	-0.03	0.22	2.35	68	1.27	84	87	62	0	7	1	0		
SIoux CITY	36	20	47	13	28	8	0.00	-0.11	0.00	1.03	72	0.82	126	91	62	0	7	0	0		
WATERLOO	33	18	40	7	26	9	0.23	0.03	0.22	1.73	75	1.08	109	90	68	0	7	2	0		
KS CONCORDIA	39	25	50	20	32	4	0.21	0.10	0.21	3.24	213	1.48	218	94	62	0	7	1	0		
DODGE CITY	42	28	56	18	34	2	0.00	-0.11	0.00	3.34	265	0.75	125	93	64	0	7	0	0		
GOODLAND	40	24	51	20	32	2	0.02	-0.04	0.02	0.63	75	0.09	21	95	63	0	7	1	0		

Weather Data for the Week Ending February 7, 1998

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	AVERAGE MINIMUM	TEMP, °F		PRECIP.	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
KY WICHITA	42	27	51	22	34	3	0.00	-0.16	0.00	3.69	172	1.04	108	91	60	0	6	0	0
KY JACKSON	41	32	58	27	36	2	2.54	1.65	1.02	8.51	94	6.30	135	88	70	0	6	4	2
KY LEXINGTON	39	30	54	22	34	3	1.47	0.76	0.81	8.14	108	5.48	153	86	72	0	6	4	1
KY LOUISVILLE	43	33	57	28	38	5	1.80	1.08	0.80	7.19	99	4.68	130	90	68	0	5	4	2
LA PADUCAH	46	33	60	27	39	5	0.06	-0.81	0.04	5.57	63	3.11	75	87	58	0	4	2	0
LA BATON ROUGE	60	41	66	32	51	0	0.10	-1.27	0.09	21.37	181	15.05	239	96	49	0	1	2	0
LA LAKE CHARLES	61	44	69	36	53	1	0.05	-0.91	0.03	15.78	150	10.06	184	91	50	0	0	2	0
LA NEW ORLEANS	59	47	69	36	53	1	0.36	-1.12	0.20	22.19	180	19.64	300	82	52	0	0	2	0
LA SHREVEPORT	56	39	64	30	48	1	1.17	0.18	1.14	13.11	148	7.01	143	88	47	0	1	3	1
ME CARIBOU	27	-2	41	-11	13	4	0.00	-0.48	0.00	6.88	112	4.07	140	87	55	0	7	0	0
ME PORTLAND	36	21	48	17	29	8	0.00	-0.83	0.00	7.40	83	4.83	111	78	49	0	7	0	0
MD BALTIMORE	48	33	50	22	39	7	2.42	1.66	1.65	10.12	140	8.07	211	92	55	0	2	3	2
MA BOSTON	39	28	50	22	34	5	0.06	-0.83	0.06	7.14	84	4.82	108	91	72	0	5	1	0
MA WORCESTER	37	26	46	23	31	8	2.92	2.07	1.72	9.84	115	7.52	166	75	43	0	6	4	2
MI ALPENA	33	17	44	6	25	8	0.02	-0.26	0.02	4.47	113	3.74	193	88	73	0	7	1	0
MI GRAND RAPIDS	35	22	43	19	28	7	0.01	-0.32	0.01	5.10	102	4.12	191	93	68	0	7	1	0
MI HOUGHTON LAKE	33	16	39	10	24	8	0.00	-0.28	0.00	2.46	66	2.12	119	90	63	0	7	0	0
MI LANSING	35	22	43	17	28	8	0.02	-0.28	0.02	4.24	103	3.35	187	88	68	0	7	1	0
MI MARQUETTE	-	-	-	-	-	-	0.79	0.37	-	5.90	113	3.50	135	-	-	-	-	-	-
MI MUSKEGON	37	24	43	19	30	7	0.03	-0.36	0.02	3.86	67	2.64	97	89	60	0	6	2	0
MN DULUTH	31	12	38	6	21	12	0.00	-0.18	0.00	2.14	80	1.74	123	93	58	0	7	0	0
MN INT'L FALLS	29	2	48	-13	15	11	0.05	-0.12	0.03	0.94	49	0.72	68	91	81	0	7	2	0
MN MINNEAPOLIS	29	12	38	6	20	6	0.00	-0.18	0.00	1.95	89	1.64	148	91	67	0	7	0	0
MN ROCHESTER	27	9	31	2	18	4	0.21	0.07	0.15	2.06	106	1.68	183	95	76	0	7	2	0
MN ST. CLOUD	25	9	30	2	17	7	0.00	-0.14	0.00	1.07	63	0.84	97	93	79	0	7	0	0
MS JACKSON	53	37	57	28	45	0	1.22	0.07	0.91	16.51	134	10.74	168	90	57	0	3	3	1
MS MERIDIAN	54	37	63	27	48	-1	0.93	-0.33	0.33	18.82	151	14.11	220	89	57	0	2	3	0
MS TUPELO	48	38	55	34	43	1	0.28	-0.83	0.15	10.23	84	6.52	109	82	59	0	0	2	0
MO COLUMBIA	42	28	48	24	35	6	0.12	-0.25	0.12	3.32	77	1.54	85	88	60	0	6	1	0
MO KANSAS CITY	42	28	51	23	35	7	0.35	0.13	0.35	3.65	126	1.31	100	86	82	0	7	1	0
MO SAINT LOUIS	46	31	57	26	38	7	0.03	-0.40	0.03	4.76	90	2.91	130	91	56	0	5	1	0
MO SPRINGFIELD	43	28	52	23	36	3	0.21	-0.22	0.21	6.03	112	2.88	130	93	59	0	6	1	0
MT BILLINGS	44	24	52	17	34	8	0.00	-0.17	0.00	1.20	64	0.63	58	90	59	0	7	0	0
MT BUTTE	42	10	51	-5	26	6	0.08	-0.02	0.08	1.09	97	0.94	145	82	57	0	7	1	0
MT GLASGOW	32	23	38	21	28	14	0.00	-0.07	0.00	0.27	33	0.26	59	96	86	0	7	0	0
MT GREAT FALLS	48	24	53	16	35	10	0.02	-0.12	0.02	1.11	58	0.78	74	86	47	0	6	1	0
MT KALISPELL	39	22	46	17	31	7	0.01	-0.30	0.01	1.61	45	1.04	57	93	65	0	7	1	0
MT MILES CITY	46	26	52	24	36	16	0.00	-0.11	0.00	0.36	28	0.34	62	96	58	0	7	0	0
MT MISSOULA	38	19	44	10	29	2	0.10	-0.12	0.10	1.87	71	1.54	105	93	68	0	7	1	0
NE GRAND ISLAND	37	22	48	18	30	5	0.00	-0.11	0.00	0.87	66	0.46	77	90	60	0	7	0	0
NE LINCOLN	36	21	48	9	29	5	0.48	0.37	0.48	2.27	149	1.54	241	94	68	0	7	1	0
NE NORFOLK	37	18	50	11	28	6	0.00	-0.13	0.00	0.57	41	0.20	31	90	53	0	7	0	0
NE NORTH PLATTE	37	21	48	17	29	4	0.00	-0.08	0.00	0.47	52	0.27	60	94	65	0	7	0	0
NE OMAHA	34	20	47	10	27	3	0.26	0.12	-	1.70	89	1.21	138	94	68	0	7	-	-
NE SCOTTSBLUFF	43	22	52	14	33	5	0.06	-0.02	0.05	0.57	50	0.26	48	93	56	0	7	2	0
NE VALENTINE	40	24	52	19	32	10	0.00	-0.08	0.00	0.13	18	0.10	30	91	59	0	7	0	0
NV ELY	48	30	62	18	39	11	0.03	-0.13	0.02	0.70	43	0.47	53	78	51	0	5	2	0
NV LAS VEGAS	59	44	65	38	52	3	0.90	0.79	0.51	1.15	120	1.07	178	81	42	0	0	4	1
NV RENO	48	30	62	23	38	2	1.31	1.04	0.82	2.99	128	2.41	176	95	60	0	5	6	1
NV WINNEMUCCA	47	31	54	22	39	5	0.80	0.43	0.24	2.52	140	2.26	248	85	54	0	4	6	0
NH CONCORD	40	17	44	7	28	9	0.00	-0.61	0.00	5.57	89	3.62	116	80	40	0	7	0	0
NJ NEWARK	45	32	50	27	39	8	0.88	0.14	0.63	9.97	132	5.81	141	71	44	0	4	2	1
NM ALBUQUERQUE	51	28	57	23	40	3	0.07	-0.04	0.06	1.21	111	0.21	35	75	33	0	7	2	0
NY ALBANY	37	19	45	15	28	7	0.00	-0.55	0.00	5.28	90	3.80	131	87	53	0	7	0	0
NY BINGHAMTON	37	21	41	15	29	9	0.04	-0.51	0.04	5.98	100	3.15	106	84	50	0	7	1	0
NY BUFFALO	37	24	46	18	31	8	0.01	-0.57	0.01	8.59	124	5.62	171	82	55	0	7	1	0
NY ROCHESTER	36	24	47	16	30	7	0.00	-0.52	0.00	8.51	160	5.63	217	83	58	0	7	0	0
NY SYRACUSE	37	22	46	13	30	8	0.00	-0.52	0.00	8.89	147	4.77	167	81	52	0	7	0	0
NC ASHEVILLE	43	31	48	22	37	1	2.26	1.37	1.58	15.20	199	12.22	298	96	69	0	4	4	1
NC CHARLOTTE	50	38	56	30	44	3	1.50	0.59	1.03	11.32	140	7.24	158	83	61	0	2	5	1
NC GREENSBORO	44	33	51	23	39	1	1.47	0.67	0.74	10.53	143	8.36	210	89	64	0	2	5	2
NC HATTERAS	50	44	57	40	47	3	3.02	1.92	2.35	18.00	165	12.35	193	98	82	0	0	4	1
NC RALEIGH	47	36	55	22	41	1	2.86	1.76	1.44	12.90	169	10.15	232	95	69	0	2	5	2
NC WILMINGTON	54	40	64	27	47	2	3.78	2.86	3.39	15.90	189	11.08	230	95	68	0	1	3	1
ND BISMARCK	35	19	47	4	27	14	0.01	-0.10	0.01	0.18	17	0.10	18	93	68	0	7	1	0
ND DICKINSON	39	25	52	18	32	18	0.01	-0.07	0.01	0.16	20	0.13	29	94	73	0	7	1	0
ND FARGO	22	7	34	-9	14	6	0.39	0.28	0.27	1.84	115	1.20	152	89	75	0	7	2	0
ND GRAND FORKS	20	3	28	-14	11	4	0.00	-0.12	0.00	1.01	69	0.45	54	91	78	0	7	0	0
ND JAMESTOWN	25	7	32	-8	16	6	0.00	-0.11	0.00	0.58	48	0.30	42	99	79	0	7	0	0
ND WILLISTON	37	23	45	9	30	18	0.00	-0.11	0.00	0.38	31	0.36	55	91	74	0	7	0	0
OH AKRON-CANTON	42	25	51	21	34	9	0.09	-0.41	0.07	5.90	105	3.82	144	93	58	0	7	2	0
OH CINCINNATI	42	29	55	23	36	7	1.84	1.26	1.18	7.88	125	5.11	161	86	62	0	5	4	2
OH CLEVELAND	40	28	51	24	34	9	0.00	-0.50	0.00	6.34	113	3.92	155	91	62	0	6	0	0
OH COLUMBUS	43	28	55	25	36	9	0.40	-0.10	0.29	4.82	87	2.89	100	82	54	0	7	2	0
OH DAYTON	40	26	51	23	33	6	0.06	-0.41	0.04	5.51	100	3.36	129	87	59	0	7	2	0
OH MANSFIELD	40	25	49	21	33	8	0.00	-0.44	0.00	5.27	96	2.86	122	89	54	0	7	0	0

Based on 1961-90 normals

Weather Data for the Week Ending February 7, 1998

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	AVERAGE MINIMUM	90 AND ABOVE	92 AND BELOW	TEMP. °F		PRECIP.	
																		.01 INCH OR MORE	.50 INCH OR MORE	.01 INCH OR MORE	.50 INCH OR MORE
TOLEDO	41	25	48	22	33	10	0.00	-0.39	0.00	5.03	99	2.96	139	83	48	0	7	0	0	0	
OK YOUNGSTOWN	42	24	50	17	33	10	0.25	-0.22	0.14	7.84	142	5.13	197	86	53	0	6	3	0	0	
OK OKLAHOMA CITY	47	31	58	25	39	1	0.08	-0.23	0.08	6.18	218	4.17	292	92	61	0	4	1	0	0	
OK TULSA	47	31	54	28	39	2	0.12	-0.27	0.12	7.90	194	3.80	187	88	54	0	4	1	0	0	
OR ASTORIA	55	45	61	42	50	8	1.46	-0.80	0.59	26.11	115	17.67	147	90	64	0	0	7	1	0	
OR BURNS	43	29	47	25	36	9	0.79	0.80	0.19	4.00	170	3.10	258	94	69	0	6	7	0	0	
OR EUGENE	54	39	64	34	46	3	1.13	-0.41	0.33	11.44	63	9.21	97	89	63	0	0	7	0	0	
OR MEDFORD	54	39	58	35	47	6	0.22	-0.31	0.16	6.35	97	4.99	155	86	50	0	0	4	0	0	
OR PENDLETON	61	36	62	26	43	7	0.15	-0.16	0.14	3.80	110	2.75	152	88	63	0	2	2	0	0	
OR PORTLAND	54	42	59	38	48	6	1.01	-0.05	0.35	10.81	86	7.78	121	90	67	0	0	7	0	0	
OR SALEM	58	39	67	34	47	6	0.98	-0.23	0.35	13.21	95	10.04	141	94	64	0	0	7	0	0	
PA ALLENTOWN	45	28	48	20	36	9	0.79	0.06	0.45	6.58	89	4.21	108	83	49	0	5	2	0	0	
PA ERIE	39	27	50	22	33	9	0.00	-0.52	0.00	10.15	160	5.30	193	85	57	0	6	0	0	0	
PA MIDDLETOWN	45	31	49	23	36	9	1.39	0.68	0.81	7.89	116	5.88	166	84	46	0	4	2	2	2	
PA PHILADELPHIA	46	33	50	25	39	8	0.30	-0.39	0.15	7.63	105	4.54	116	83	54	0	3	2	0	0	
PA PITTSBURGH	42	27	49	20	34	8	0.58	0.03	0.31	5.50	92	4.21	138	82	48	0	7	2	0	0	
PA SCRANTON	-	-	-	-	-	-	0.49	-0.14	-	5.70	112	3.46	133	-	-	-	-	2	0	0	
PA WILLIAMSPORT	42	25	45	20	34	8	-	-	0.68	-	-	-	91	50	0	7	2	1	1	0	
RI PROVIDENCE	42	27	54	22	36	7	0.57	-0.33	0.39	9.95	109	7.11	149	87	54	0	6	2	0	0	
SC BEAUFORT	55	42	65	33	49	-1	0.92	0.12	0.75	12.99	168	9.06	200	96	71	0	0	2	1	0	
SC CHARLESTON	58	42	65	30	49	1	2.08	1.29	1.83	14.93	201	9.94	229	94	66	0	1	2	1	0	
SC COLUMBIA	52	38	56	24	45	0	3.45	2.43	2.03	14.77	163	10.38	190	94	67	0	2	3	2	2	
SC GREENVILLE	47	36	51	28	42	1	3.03	2.00	2.36	14.04	161	9.79	191	87	59	0	2	3	1	1	
SD ABERDEEN	27	6	35	-10	16	3	0.00	-0.08	0.00	0.81	95	0.63	140	92	79	0	7	0	0	0	
SD HURON	33	15	45	-1	24	8	0.00	-0.11	0.00	0.67	70	0.45	90	86	65	0	7	0	0	0	
SD RAPID CITY	44	25	56	23	34	10	0.00	-0.11	0.00	0.23	24	0.15	31	92	58	0	7	0	0	0	
SD SIOUX FALLS	34	13	45	3	23	7	0.02	-0.09	0.02	0.78	58	0.52	84	93	81	0	7	1	0	0	
TN BRISTOL	44	32	50	20	38	3	0.98	0.15	0.65	8.27	111	6.10	151	94	66	0	4	4	1	0	
TN CHATTANOOGA	44	35	55	29	39	0	2.65	1.62	1.88	12.60	112	9.30	154	90	66	0	2	3	2	1	
TN KNOXVILLE	44	33	53	27	38	1	1.46	0.49	1.18	8.44	87	6.07	118	91	67	0	4	3	1	1	
TN MEMPHIS	49	38	61	32	44	2	0.00	-0.98	0.00	11.24	108	6.72	143	83	53	0	1	0	0	0	
TN NASHVILLE	44	33	58	29	39	1	1.41	0.53	1.26	7.27	80	5.08	114	85	63	0	4	3	1	1	
TX ABILENE	52	34	64	26	43	-2	0.30	0.02	0.23	4.83	199	1.47	113	97	63	0	2	2	0	0	
TX AMARILLO	48	27	66	25	38	1	0.22	0.08	0.21	3.02	290	0.90	143	94	51	0	7	2	0	0	
TX AUSTIN	61	45	66	37	53	3	0.24	-0.29	0.22	7.17	174	2.91	130	87	51	0	0	3	0	0	
TX BEAUMONT	62	46	69	38	54	2	0.10	-0.84	0.06	15.55	148	8.93	156	88	54	0	0	3	0	0	
TX BROWNSVILLE	73	49	80	43	61	0	0.17	-0.17	-	0.99	31	0.54	28	98	51	0	0	3	0	0	
TX CORPUS CHRISTI	66	49	71	41	58	1	0.45	-0.07	0.45	1.65	47	1.45	65	92	58	0	0	1	0	0	
TX DEL RIO	67	40	74	31	53	1	0.01	-0.22	0.01	0.84	45	0.06	8	88	36	0	1	1	0	0	
TX EL PASO	61	32	70	24	46	1	0.04	-0.07	0.04	1.50	138	0.09	18	69	28	0	5	1	0	0	
TX FORT WORTH	56	37	65	30	47	1	0.08	-0.44	0.06	12.08	287	5.13	219	96	55	0	2	1	0	0	
TX GALVESTON	61	50	70	40	55	2	0.89	0.06	0.51	11.06	149	6.16	158	90	60	0	0	3	1	0	
TX HOUSTON	59	43	69	35	51	-1	0.63	-0.14	0.32	10.40	138	4.98	123	93	54	0	0	3	0	0	
TX LUBBOCK	50	28	65	25	39	-2	0.06	-0.08	0.05	1.81	171	0.06	12	90	52	0	7	2	0	0	
TX MIDLAND	57	33	64	27	45	0	0.37	0.23	0.36	1.98	180	0.61	117	91	48	0	2	2	0	0	
TX SAN ANGELO	57	34	68	30	45	0	0.79	0.53	0.41	2.87	157	1.49	141	96	53	0	2	2	0	0	
TX SAN ANTONIO	63	42	70	35	53	2	0.32	-0.15	0.31	7.09	193	3.54	162	90	51	0	0	2	0	0	
TX VICTORIA	61	43	69	33	52	-2	0.18	-0.38	0.12	3.46	73	1.83	67	95	59	0	0	2	0	0	
TX WACO	59	39	65	29	49	2	0.05	-0.44	0.04	15.96	401	6.15	289	94	53	0	1	2	0	0	
UT WICHITA FALLS	48	33	59	24	41	-1	0.19	-0.11	0.19	6.73	257	2.61	195	94	61	0	3	1	0	0	
UT SALT LAKE CITY	50	36	58	26	43	12	0.86	0.58	0.75	3.13	111	2.49	178	87	53	0	2	3	1	1	
VT BURLINGTON	31	12	45	2	21	8	0.00	-0.39	0.00	6.80	147	5.15	234	82	53	0	7	0	0	0	
VA LYNCHBURG	42	31	47	21	37	2	2.84	2.12	1.39	13.41	197	10.69	300	97	67	0	2	5	2	2	
VA NORFOLK	47	38	56	29	42	3	-	-	5.34	-	-	-	97	80	0	1	5	1	1	0	
VA RICHMOND	44	33	50	25	39	2	2.98	2.21	2.19	12.18	167	9.82	244	94	69	0	2	5	1	1	
VA ROANOKE	42	31	47	22	37	2	4.02	3.32	2.39	14.37	229	12.00	363	93	68	0	3	5	2	2	
VA WASH/DULLES	45	31	50	19	38	7	2.47	1.80	2.16	9.82	149	7.90	234	91	57	0	2	3	1	1	
WA HANFORD	47	35	53	28	41	-	0.43	0.28	0.31	1.98	101	1.87	178	94	75	0	2	4	0	0	
WA OLYMPIA	53	37	58	30	45	6	0.52	-1.09	0.22	17.53	99	11.39	118	99	71	0	2	7	0	0	
WA QUILLAYUTE	53	43	56	40	48	7	1.71	-1.57	0.44	36.42	110	20.91	118	94	89	0	0	7	0	0	
WA SEATTLE-TACOMA	54	44	62	40	49	7	0.36	-0.73	0.12	10.14	82	7.51	116	81	58	0	0	5	0	0	
WA SPOKANE	46	33	53	27	40	9	0.20	-0.20	0.11	3.28	68	2.28	95	94	63	0	4	4	0	0	
WA YAKIMA	44	33	50	26	38	5	0.74	0.53	0.33	3.30	117	3.11	219	86	82	0	3	7	0	0	
WV BECKLEY	36	27	42	14	31	2	3.11	2.39	0.96	10.17	148	7.96	219	93	80	0	7	4	4	4	
WV CHARLESTON	41	31	53	20	36	3	1.72	1.00	0.82	6.72	96	5.15	143	92	74	0	8	4	1	1	
WV ELKINS	42	26	49	9	34	7	0.43	-0.29	0.21	7.24	99	4.71	124	93	57	0	7	3	0	0	
WV HUNTINGTON	41	31	54	22	36	4	2.49	1.81	1.82	7.89	115	6.33	181	86	84	0	5	4	2	2	
WI EAU CLAIRE	33	11	38	3	22	9	0.83	0.46	0.56	2.46	109	2.20	191	83	66	0	7	3	1	1	
WI GREEN BAY	31	13	38	2	22	7	0.23	0.01	0.20	3.05	105	2.44	178	92	73	0	6	2	0	0	
WI MADISON	32	21	38	12	27	9	0.16	-0.06	0.12	3.65	117	2.39	187	95	70	0	7	3	0	0	
WI MILWAUKEE	34	27	39	24	31	11	0.15	-0.16	0.13	5.04	119	3.74	196	94	77	0	6	2	0	0	
WI CASPER	43	24	51	18	34	9	0.00	-0.14	0.00	0.97	72	0.49	72	87	57	0	7	0	0	0	
WI CHEYENNE	42	20	49	17	31	3	0.14	0.06	0.12	0.75	87	0.21	47	95	49	0	7	2	0	0	
WI LANDER	32	17	39	13	24	2	0.00	-0.11	0.00	1.98	169	0.13									

January Weather and Crop Summary

Weather

Weather patterns temporarily deviated from a classic El Niño structure, as Arctic air edged into the northern Plains and Pacific storms attacked the Northwest rather than southern California and the Southwest. Significant snow accumulated in the upper Midwest, but most winter wheat areas of the Northwest, Plains, and Ohio Valley saw only limited snow cover. Frequent storminess continued across the South and East, including an early-month powerhouse system that produced one of the worst ice storms on record in northern New England.

Precipitation averaged above normal in the eastern half of the Nation. Conditions were especially wet along the central Gulf Coast, in the Mid-Atlantic region, and in the Northeast. January precipitation records included:

January-Record Precipitation (Inches)

<u>Location</u>	<u>Total</u>	<u>Former Record/Year</u>
New Orleans, LA	19.28	19.25 in 1991
Mobile, AL	16.92	16.07 in 1991
Baton Rouge, LA	14.94	11.41 in 1990
Asheville, NC	9.96	7.47 in 1978
Roanoke, VA	7.97	7.73 in 1936
Blacksburg, VA	7.39	6.51 in 1996
Burlington, VT	5.15	4.69 in 1978

Although no records were set, wet weather also dominated the Northwest. Monthly totals of 13.63 inches in Redding, CA and 2.31 inches in Burns, OR were more than twice their respective normal values. In Medford, OR, measurable rain fell on 22 days during the month, breaking a record that had stood since 1919.

In addition to the above-normal precipitation, exceptionally cloudy weather prevailed, especially in the South, Midwest, and East. In Little Rock, AR, no sun shone on 9 consecutive days from January 6-14. In Oklahoma, Tulsa had 10 sunless days in a row (January 5-14), their longest such streak this half-century. Oklahoma City had only 28 minutes of sunshine during the same period. For the month, Chicago, IL saw only 60.1 hours of sunshine (20 percent of normal), breaking their January record. In Michigan, Grand Rapids had their second-cloudiest month on record (18.1 hours, or 6 percent of possible), behind November 1992.

Despite the cloudiness, many parts of the Nation recorded their warmest January in many years:

Warmest January Since...

<u>Location</u>	<u>Average/Departure (°F)</u>	<u>Previous (°F)/Year</u>
Philadelphia, PA	41.0, +10.6	N/A in 1950
Boise, ID	38.9, + 9.9	41.0 in 1953
Paducah, KY	40.5, + 7.9	43.8 in 1990
Wilmington, DE	39.8, + 9.2	N/A in 1990
Indianapolis, IN	36.6, +11.1	37.3 in 1990
Allentown, PA	36.5, + 9.9	N/A in 1990
Binghamton, NY	30.8, + 9.7	31.5 in 1990
Sacramento, CA	51.9, + 5.2	53.2 in 1995

In Austin, TX, the month's lowest temperature was 34°F, only the fourth time this century that their January temperatures remained above freezing. In Missouri, St. Louis' lowest temperature of the season-to-date--13°F--would become their highest low temperature on record during a winter season if it stands. Nationally, monthly temperatures averaged 3 to 12 degrees F above normal, except on the northern Plains and across parts of the West Coast States.

Despite the above-normal temperatures, heavy snow fell in the upper Midwest and Great Lakes region, and a severe ice storm struck northern New York and northern New England. Monthly snowfall reached 20.4 inches in Minneapolis, MN, 23.7 inches in Milwaukee, WI, and 40.8 inches in Alpena, MI, accounting for more than 60 percent of their respective season-to-date totals. Snow fell on 18 of the month's 31 days in both Rochester, MN and LaCrosse, WI. Late in the month, an East-Coast storm caused beach erosion and dumped record snowfall in the central and southern Appalachians. On January 28, the tide reached 6.44 feet above mean lower low water at Sewells Point, VA, their highest since March 1962. Farther west, Flat Top, WV netted a State-record 35 inches in 24 hours on January 27-28. Elsewhere in West Virginia, 24-hour snowfall records were established in Bluefield (21.9 inches) and Beckley (31.0 inches). Storm-total snowfall reached 42 inches in Ghent, WV and 40 inches in the mountains of western North Carolina.

Closer to the coast, however, season-to-date snowfall through January 31 stood at 0.5 inches in New York's Central Park and 0.1 inches at Washington's National Airport. Areas from northern New York to central and southern Maine would have welcomed snow from January 5-9. Instead, 2 to 4 inches of ice accumulated, causing extensive damage. Some of the worst destruction occurred on January 8, when Burlington, VT posted a single-day, January-record rainfall of 2.11 inches. Outside the ice zone, Rochester, NY (2.23 inches on January 7-8) collected a January-record 24-hour rainfall. On January 9 in New York, record flooding struck the Black River at Watertown (1.8 feet above the April 1993 record) and the Hudson River at Newcomb (breaking a January 1949 record). Excessive rainfall also soaked the Southeast, including January 8 rainfall in excess of 13 inches across parts of western North Carolina. Incredibly warm air overspread much of the Nation before and during the storm. As a result, Chicago marked its longest January streak with highs at or above 50°F (4 days from January 2-5) since 1967. Highs reached or exceeded 60°F on 8 consecutive days (January 2-9) in Washington, DC. Nationally, more than 120 daily-record highs were set during the first 9 days of the month.

Arctic air failed to spread much beyond the northern Plains, and even that cold air lost its effect after mid-

month. The mercury dipped below 0°F for the first time this winter on January 2 in Glasgow, MT and on January 10 in Marquette, MI. Both dates represented record-late occurrences of sub-zero cold. By January 12, lows in Montana dipped to -35°F in Miles City and -40°F in Jordan. Average snow depths of 2 to 4 inches on the northern Plains offered some insulation for winter wheat during the coldest period. Due to milder weather later in the month, January temperature departures ranged from -3 to +7°F on the northern Plains.

The cold air briefly invaded the Northwest, setting the stage for a significant winter storm. Snow blanketed the Northwest from January 9-11, accumulating 17 inches in The Dalles, OR and 13 inches near Centralia, WA. Freezing rain also affected some locations. Cold air continued to build into eastern Washington's wheat areas through January 12, when Spokane, WA registered -2°F. Just 6 days later, very warm air returned to the region, however, as Hanford, WA (57°F) notched a daily-record high.

Monthly precipitation was less than 25 percent of normal across a broad area from the Southwest into the central and southern High Plains. Only a trace of rain fell in Lubbock, TX, their lowest January total since 1986. In Colorado, Denver's monthly precipitation of 0.05 inches was their fifth-lowest January total on record.

Fieldwork

January was characterized by unseasonably mild temperatures nationwide, with very wet weather along the Pacific, Gulf, and Atlantic Coasts. Field activities in the Coastal States were often halted by heavy rainfall or soils too saturated to support equipment. In California, rains slowed vegetable harvests and field preparations for the coming year. Several locations in the

(Continued from page 2)

In the **East**, a slow-moving storm developed in the **Gulf of Mexico** early in the week, finally departing the **Mid-Atlantic Coast** on Friday. Another system crossed **Florida** toward week's end. The first storm affected areas as far east as **Puerto Rico**, where localized wind damage and 5- to 8-inch rainfalls were reported on February 4-5. On Wednesday, **Norfolk, VA** netted a single-day, February-record rainfall of 5.34 inches. Farther south, **Jacksonville, FL** measured a February-record barometric pressure of 29.24 inches (990 millibars). With 2 to 6 inches of rain falling on already saturated soils, minor to moderate flooding occurred in most river basins of the **Southeast**. In **Virginia** on Friday, the **James River** at **Richmond (City Locks)** crested at 6.4 feet above flood stage, while the **Roanoke River** at **Randolph** peaked at nearly 5.1 feet above flood stage.

On Monday night, severe thunderstorms crossed **Florida**. Winds gusted to 104 mph in **Miami**, 90 mph in **Hollywood**, and 66 mph in **Homestead**. A gust to 98 mph was clocked on **Duck Key**. In **central Florida**, gusts reached 44 mph in **St. Petersburg** and **Winter Haven**. After the low-pressure system's passage, strong westerly winds, gusting as high as 50 mph, continued to rake the **Peninsula** through February 4. Farther north, northeasterly winds on Wednesday gusted to 67 mph in **North Wildwood, NJ** and on

Southeast and Middle Atlantic States received record amounts of precipitation for the month of January. Some soybean and cotton fields remain unharvested in the Southeast and may have to be abandoned if the wet weather continues. The **Florida citrus harvest** was active despite cool, wet weather.

Farther north, storms caused massive icing in **New England and New York**. Severe conditions hampered agricultural activities and stressed livestock, especially dairy herds. Maple and fruit trees were adversely affected by the storms. Growers were still cleaning up and assessing the extent of the damage at the end of the month.

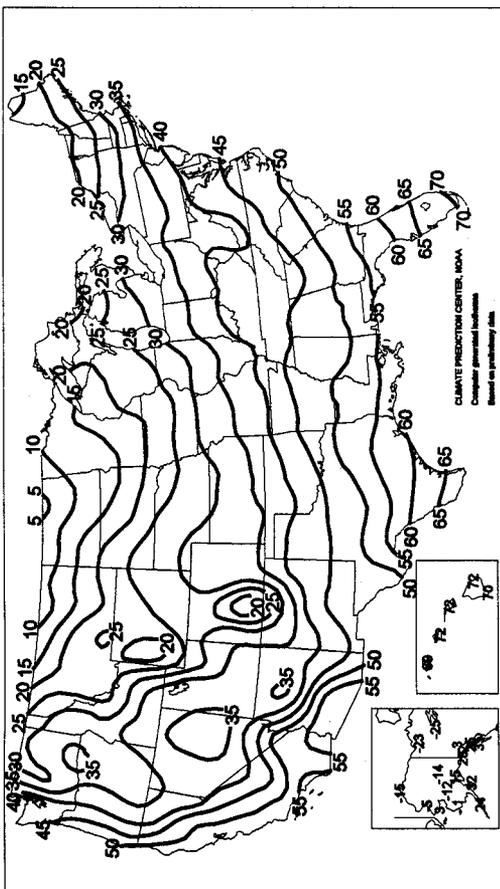
The **Corn Belt** experienced generally snowy weather in the north and rain in the south during January. However, mild temperatures melted most of the snow, causing muddy fields and leaving winter-planted crops uncovered. Winter wheat fields showed signs of greening and breaking dormancy later in the month. Farmers were concerned about the effects of the mild weather on insects and disease during the upcoming growing season.

Unseasonably mild temperatures prevailed over the major winter wheat-producing States. Rains provided adequate soil moisture in the southern Plains, but January was generally dry in the central and northern High Plains. Some snow accumulated on winter wheat fields in **Montana, Wyoming, and South Dakota**, but the majority of the fields had poor to very poor cover. In the Northwest, the crop was in generally good condition due to mild, wet weather. In the Southeast, saturated soils have caused ponding in fields, delayed chemical applications, and drained nutrients from the soil. Farmers nationwide were concerned that the lack of snow cover and mild temperatures had left the winter wheat crop vulnerable to freezing temperatures. Little damage has occurred to the wheat crop thus far.

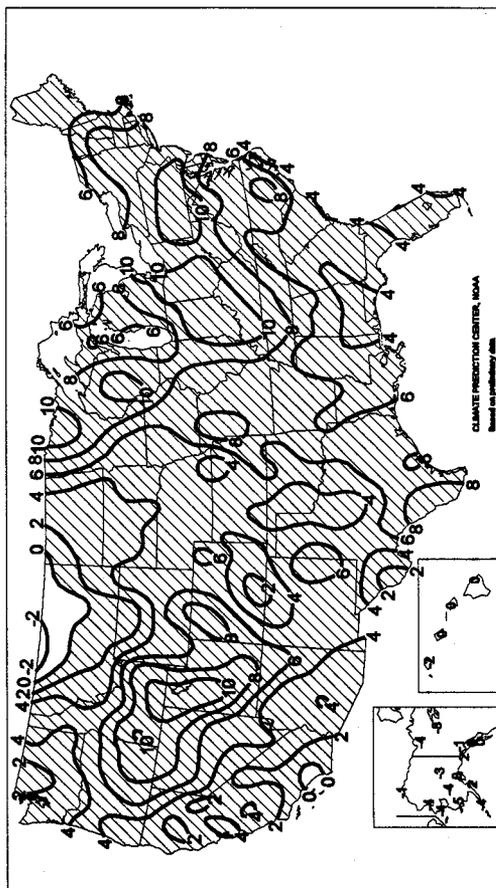
Cape Henry, VA. The same day, tides ranged from 4.5 to 5.4 feet above normal along the **Delaware and southern New Jersey Coasts**, breaching some protective dunes. Seas reached 24 feet at a buoy near the mouth of the **Delaware River**. Meanwhile, the storm produced record snowfall in the **middle Ohio Valley**. February 4-6 snowfall totaled 22.4 inches in **Louisville, KY** and 18.5 inches in **Cincinnati, OH**, setting single-storm records in both locations. With 17.2 inches, **Lexington, KY** set a February-record total. Elsewhere, storm-total snowfall included 12.2 inches in **Evansville, IN**, 13.0 inches in **Beckley, WV**, and 17.6 inches in **Jackson, KY**.

Aside from the coastal storms, highlights included early-week snow in the **western Great Lakes region**, continued dryness (for 4 months) on the **northern Plains**, and late-week warmth in the **Northwest**. On Friday, daily-record highs in **Oregon** included 67°F in **Salem** and 65°F in **Florence**. Very mild weather prevailed in **Alaska** (except the **Aleutians**), as temperatures averaged 9 to 21°F above normal. In contrast, very cool and continued dry weather blanketed **Hawaii**. Lows of 53°F in **Kahului** on Tuesday and 56°F in **Honolulu** on Friday were records for their respective dates. During the first 38 days of the year, rainfall in **Hilo** totaled 0.18 inches, less than 2% of normal.

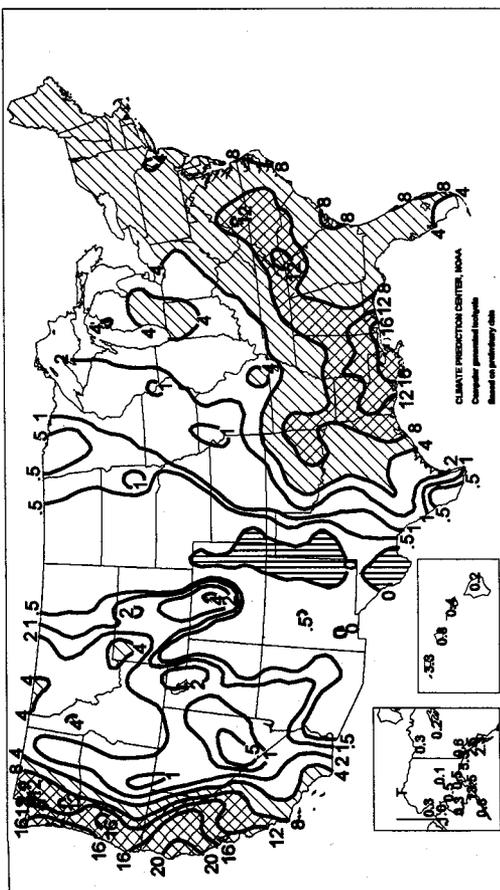
Average Temperature (°F)
January 1998



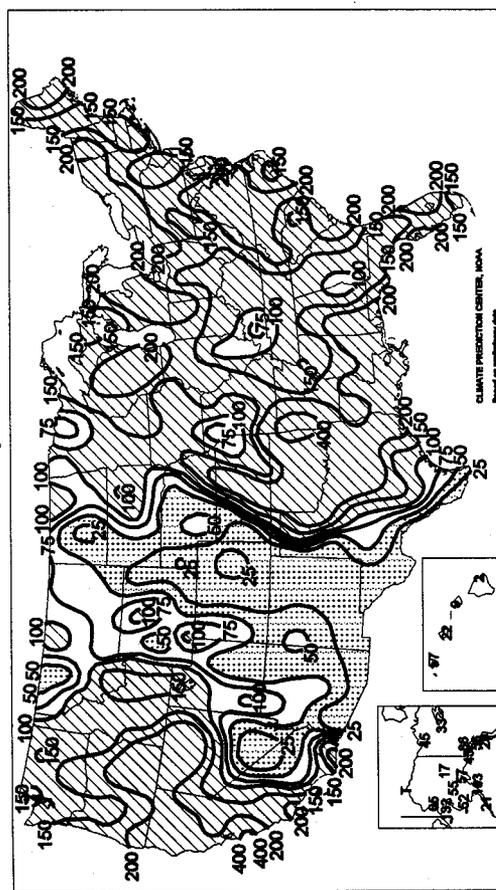
Departure of Average Temperature from Normal (°F)
January 1998



Total Precipitation (Inches)
January 1998



Percent of Normal Precipitation
January 1998



TEMPERATURE AND PRECIPITATION SUMMARY December 1998

STATES AND STATIONS	TEMP. °F		PRECIP.		STATES AND STATIONS	TEMP. °F		PRECIP.		STATES AND STATIONS	TEMP. °F		PRECIP.	
	AVERAGE	DEPARTURE	TOTAL	DEPARTURE		AVERAGE	DEPARTURE	TOTAL	DEPARTURE		AVERAGE	DEPARTURE	TOTAL	DEPARTURE
AL BIRMINGHAM	47	5	8.06	2.96	ME CARIBOU	14	5	4.07	1.65	RI SCRANTON	-	-	2.96	1.00
AL HUNTSVILLE	46	6	7.54	2.37	ME PORTLAND	27	6	4.83	1.30	RI WILLIAMSPORT	35	10	4.57	2.03
AL MOBILE	52	2	16.92	12.16	MD BALTIMORE	41	9	5.65	2.60	RI PROVIDENCE	35	7	6.55	2.67
AL MONTGOMERY	49	3	5.96	1.18	MA BOSTON	34	5	4.76	1.17	SC BEAUFORT	52	3	8.13	4.41
AK ANCHORAGE	15	1	0.45	-0.34	MA WORCESTER	30	7	4.69	0.91	SC CHARLESTON	52	4	7.58	4.13
AK BARRROW	-15	-1	0.00	-0.12	MI ALPENA	24	7	3.73	2.09	SC COLUMBIA	49	6	6.92	2.50
AK FAIRBANKS	-14	-3	0.08	-0.38	MI GRAND RAPIDS	30	8	4.11	2.28	SD GREENVILLE	45	5	6.76	2.68
AK JUNEAU	25	0	2.54	-2.00	MI HOUGHTON LAKE	24	7	2.12	0.62	SD ABERDEEN	8	4	0.63	0.26
AK KODIAK	32	2	13.49	6.11	MI LANSING	29	9	3.34	1.85	SD HURON	18	5	0.45	0.04
AK NOME	3	-4	1.04	0.25	MI MARQUETTE	18	6	2.71	0.54	SD RAPID CITY	24	2	0.15	-0.24
AZ FLAGSTAFF	32	3	1.30	-0.81	MI MUSKEGON	30	6	2.61	0.27	SD SIOUX FALLS	20	6	0.50	-0.01
AZ PHOENIX	57	3	0.35	-0.32	MN DULUTH	16	9	1.74	0.52	TN BRISTOL	40	6	5.12	1.89
AZ PRESCOTT	40	4	0.85	-0.68	MN INT'L FALLS	12	11	0.66	-0.22	TN CHATTANOOGA	44	7	6.65	1.76
AZ TUCSON	63	2	0.17	-0.70	MN MINNEAPOLIS	19	7	1.64	0.69	TN KNOXVILLE	43	7	4.62	0.45
AZ YUMA	59	2	0.04	-0.30	MN ROCHESTER	20	8	1.47	0.69	TN MEMPHIS	46	6	6.72	2.98
AR FORT SMITH	45	8	7.78	5.88	MS ST. CLOUD	15	7	0.84	0.10	TX NASHVILLE	46	9	3.68	0.10
AR LITTLE ROCK	48	7	4.97	1.76	MS JACKSON	49	5	9.52	4.28	TX ABILENE	46	6	1.17	0.14
CA BAKERSFIELD	50	2	1.32	0.46	MS MERIDIAN	48	3	13.18	8.03	TX AMARILLO	40	5	0.68	0.18
CA EUREKA	-	-	13.30	7.30	MS TUPELO	45	5	6.24	1.35	TX AUSTIN	56	8	2.67	0.96
CA FRESNO	49	4	3.40	1.44	MO COLUMBIA	35	7	1.42	-0.03	TX BEAUMONT	57	7	8.83	4.06
CA LOS ANGELES	56	0	3.78	1.36	MO KANSAS CITY	34	8	0.97	-0.12	TX BROWNSVILLE	65	8	0.37	-1.19
CA REDDING	48	1	13.63	7.57	MO SAINT LOUIS	36	7	2.88	1.07	TX CORPUS CHRISTI	62	7	1.00	-0.71
CA SACRAM/MCCLELL	51	-	6.71	-	MO SPRINGFIELD	38	7	2.67	0.88	TX DEL RIO	57	7	0.05	-0.51
CA SAN DIEGO	58	1	2.68	0.88	MT BILLINGS	25	2	0.63	-0.29	TX EL PASO	47	5	0.05	-0.35
CA SAN FRANCISCO	53	4	8.16	3.81	MT BUTTE	21	4	0.88	0.33	TX FORT WORTH	48	5	5.07	3.24
CA ALAMOSA	18	1	T	-0.26	MT GLASGOW	10	0	0.26	-0.11	TX GALVESTON	59	6	5.47	2.21
CO CO SPRINGS	32	3	0.03	-0.26	MT GREAT FALLS	22	0	0.76	-0.15	TX HOUSTON	57	7	4.35	1.06
CO DENVER	33	5	0.05	-0.45	MT KALISPELL	25	4	1.03	-0.50	TX LUBBOCK	44	5	T	-0.39
CO GRAND JUNCTION	34	9	0.47	-0.09	MT MILES CITY	19	3	0.34	-0.21	TX MIDLAND	48	6	0.24	-0.16
CO PUEBLO	31	2	0.10	-0.22	MT MISSOULA	26	3	1.44	0.20	TX SAN ANGELO	49	6	0.70	-0.10
CT BRIDGEPORT	37	8	4.61	1.37	NE GRAND ISLAND	26	5	0.46	0.00	TX SAN ANTONIO	57	7	3.22	1.51
CT HARTFORD	33	8	3.37	-0.04	NE LINCOLN	26	4	1.06	0.52	TX VICTORIA	58	6	1.67	-0.49
DC WASHINGTON	43	8	5.43	2.71	NE NORFOLK	25	6	0.20	-0.32	TX WACO	52	6	6.10	4.45
DE WILMINGTON	40	9	4.80	1.77	NE NORTH PLATTE	26	4	0.27	-0.06	TX WICHITA FALLS	45	5	2.42	1.38
FL DAYTONA BEACH	61	3	4.33	1.58	NE OMAHA	26	4	0.95	0.21	UT SALT LAKE CITY	38	10	1.83	0.52
FL JACKSONVILLE	57	4	3.49	0.18	NE SCOTTSDUFF	29	4	0.20	-0.30	VT BURLINGTON	23	6	5.15	3.33
FL KEY WEST	71	1	2.42	0.41	NE VALENTINE	24	5	0.10	-0.19	VA LYNCHBURG	40	6	7.86	4.99
FL MIAMI	70	3	1.04	-0.97	NV ELY	29	5	0.44	-0.26	VA NORFOLK	46	7	6.02	2.24
FL ORLANDO	62	3	1.99	-0.31	NV LAS VEGAS	49	3	0.17	-0.31	VA RICHMOND	43	7	6.85	3.61
FL TAMPA	64	4	4.64	2.65	NV RENO	38	6	1.10	0.03	VA ROANOKE	41	7	7.97	5.35
FL VALPARAISO/EGLIN	54	2	-	-	NV WINNEMUCCA	37	7	1.66	0.92	VA WASH/DULLES	40	9	5.43	2.73
FL WEST PALM BEACH	68	3	11.18	8.38	NH CONCORD	27	9	3.62	1.11	WA HANFORD	36	-	1.24	0.45
GA ATHENS	48	5	5.87	1.27	NJ NEWARK	39	8	4.93	1.54	WA OLYMPIA	41	3	11.00	2.99
GA ATLANTA	46	5	5.85	1.10	NM ALBUQUERQUE	38	4	0.14	-0.30	WA QUILLAYUTE	42	2	19.19	4.82
GA AUGUSTA	49	5	7.51	3.46	NY ALBANY	29	8	3.90	1.44	WA SEATTLE-TACOMA	42	2	7.16	1.77
GA COLUMBUS	51	5	3.21	-1.38	NY BINGHAMTON	31	10	3.11	0.71	WA SPOKANE	31	3	2.06	0.08
GA MACON	49	3	5.33	0.77	NY BUFFALO	31	7	5.61	2.91	WA YAKIMA	30	1	2.37	1.16
GA SAVANNAH	53	4	7.51	3.92	NY ROCHESTER	32	8	5.63	3.55	WV BECKLEY	36	7	4.86	1.94
HI HILO	72	0	0.18	-0.69	NY SYRACUSE	29	7	4.77	2.43	WV CHARLESTON	41	9	3.43	0.53
HI HONOLULU	72	0	0.77	-2.78	NC ASHEVILLE	41	5	9.96	6.71	WV ELKINS	36	9	4.28	1.20
HI KAHULUI	72	0	0.37	-3.78	NC CHARLOTTE	47	8	5.74	2.03	WV HUNTINGTON	41	9	3.84	1.02
HI LIHUE	69	-2	3.33	-2.56	NC GREENSBORO	43	6	6.88	3.71	WI EAU CLAIRE	20	10	1.58	0.60
ID BOISE	39	10	2.74	1.29	NC HATTERAS	47	2	9.33	4.04	WI GREEN BAY	22	8	2.21	1.06
ID LEWISTON	37	4	1.78	0.50	NC RALEIGH	45	6	7.49	4.01	WI MADISON	24	8	2.24	1.17
IL POCATELLO	33	10	1.98	0.94	NC WILMINGTON	50	5	7.30	3.43	WY MILWAUKEE	27	8	3.60	2.00
IL CHICAGO/O'HARE	29	8	2.67	1.14	ND BISMARCK	13	4	0.09	-0.36	WY CASPER	26	3	0.49	-0.06
IL MOLINE	27	7	2.54	1.00	ND DICKINSON	17	4	0.12	-0.28	WY CHEYENNE	31	4	0.07	-0.33
IL PEORIA	30	8	2.55	1.04	ND FARGO	11	6	0.61	0.14	WY LANDER	23	4	0.13	-0.35
IL ROCKFORD	26	8	2.29	1.01	ND GRAND FORKS	9	5	0.45	-0.30	WY SHERIDAN	21	0	0.41	-0.32
IL SPRINGFIELD	33	8	2.43	0.92	ND JAMESTOWN	11	4	0.30	-0.32	PR SAN JUAN	-	-	7.29	2.57
IN EVANSVILLE	40	10	2.24	-0.42	ND WILLISTON	9	0	0.36	-0.18					
IN FORT WAYNE	33	10	3.96	2.09	OH AKRON-CANTON	33	9	3.73	1.57					
IN INDIANAPOLIS	36	11	2.51	0.19	OH CINCINNATI	38	10	3.27	0.68					
IN SOUTH BEND	31	8	3.80	1.57	OH CLEVELAND	35	10	3.92	1.88					
IA BURLINGTON	30	8	2.28	1.02	OH COLUMBUS	37	11	2.29	0.11					
IA CEDAR RAPIDS	24	7	1.14	0.13	OH DAYTON	36	10	3.30	1.17					
IA DES MOINES	26	6	0.99	0.03	OH MANSFIELD	34	9	2.96	0.98					
IA DUBUQUE	25	9	1.05	-0.21	OH TOLEDO	33	11	2.96	1.21					
IA SIOUX CITY	23	5	0.82	0.27	OH YOUNGSTOWN	34	10	4.88	2.75					
IA WATERLOO	23	8	0.85	0.05	OK OKLAHOMA CITY	41	5	4.09	2.96					
KS CONCORDIA	30	4	1.27	0.69	OK TULSA	40	5	3.48	1.94					
KS DODGE CITY	33	3	0.75	0.26	OR ASTORIA	46	4	16.20	6.20					
KS GOODLAND	32	3	0.07	-0.34	OR BURNS	32	8	2.31	1.32					
KS TOPEKA	33	6	0.79	-0.16	OR EUGENE	44	3	8.09	0.18					
KS WICHITA	35	5	1.04	0.25	OR MEDFORD	43	5	4.78	2.09					
KY JACKSON	42	9	3.78	0.00	OR PENDLETON	38	5	2.90	1.09					
KY LEXINGTON	41	10	3.99	1.13	OR PORTLAND	43	3	6.77	1.42					
KY LOUISVILLE	41	10	4.68	1.82	OR SALEM	44	4	9.06	3.14					
KY PADUCAH	40	8	3.06	-0.21	PA ALLENTOWN	36	10	3.42	0.26					
LA BATON ROUGE	54	4	14.94	10.03	PA ERIE	34	9	5.30	3.08					
LA LAKE CHARLES	56	6	10.01	5.49	PA MIDDLETOWN	38	10	4.49	1.65					
LA NEW ORLEANS	56	5	19.28	14.23	PA PHILADELPHIA	41	11	4.24	1.03					
LA SHREVEPORT	62	7	5.64	1.96	PA PITTSBURGH	37	11	3.63	1.08					

Based on 1961-90 normals.

National Agricultural Summary

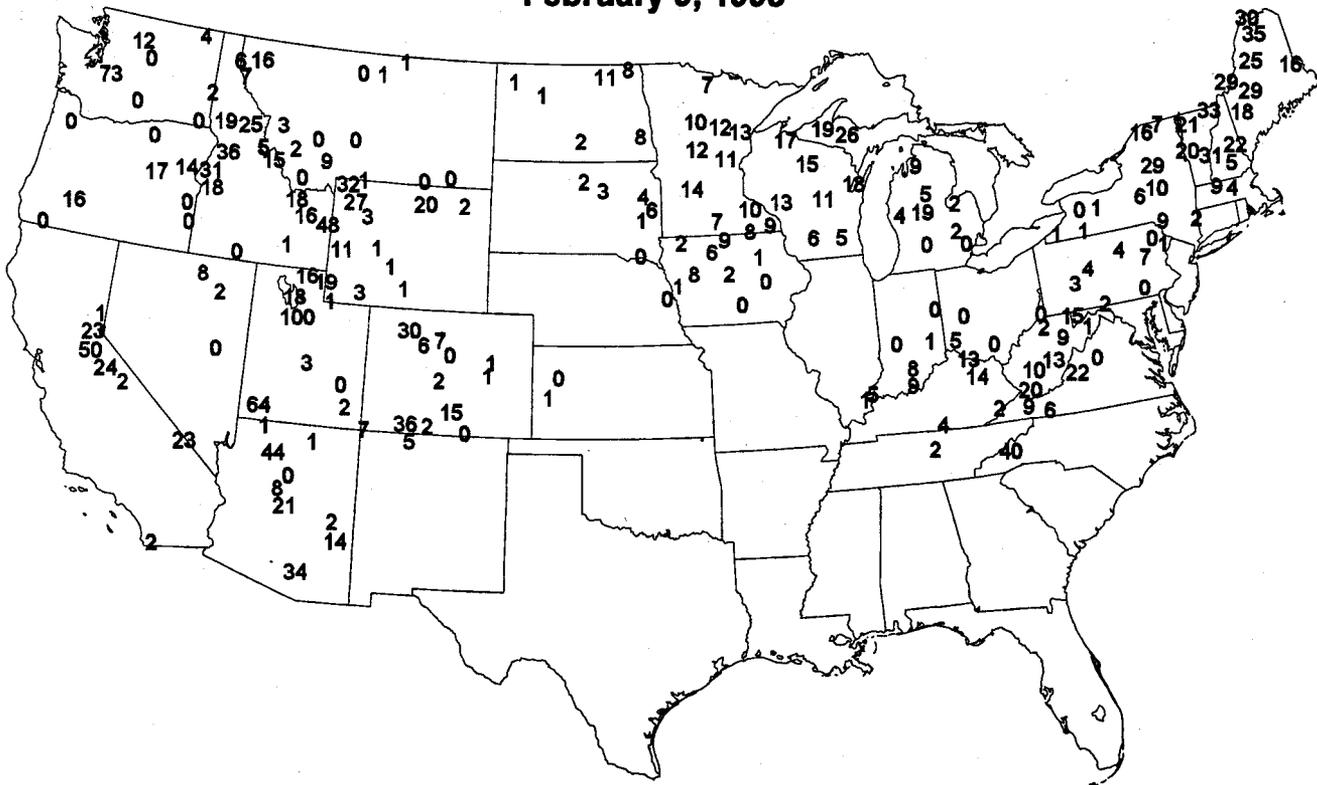
February 2 - 8, 1998

HIGHLIGHTS

Temperatures were unseasonably mild across the Nation, benefiting livestock, especially in the Northern Tier States. Early-week snow fell in an area extending from Kansas to northern Michigan. The Plains remained relatively dry, especially in northern areas, where little precipitation has fallen the past 4 months. Mild temperatures kept winter wheat in mostly good condition in the southern Plains. Severe storms were concentrated in California and the Southeast as mild temperatures dominated the rest of the United States. A barrage of storms caused flooding, strong winds and heavy rainfall in California. Progress of field activities was severely curtailed in most areas. Many low-lying fields were in standing water in the Sacramento and San Joaquin

Valleys. Strong winds uprooted some almond trees. Grapefruit, lemon, navel orange, and tangerine harvests were active where weather permitted, but high winds and rain resulted in heavy fruit drop in some areas. In Florida, wet weather delayed land preparation for spring field crops. Strong winds tossed vegetables, cold weather slowed some plant growth, and wet soils delayed some vegetable fieldwork. Cool weather slowed new growth and bloom bud in citrus areas. Elsewhere in the Southeast, the second major "nor'easter" in 2 weeks kept farmers out of fields and caused flooding in some areas. As the storm moved northward, heavy rains caused flooding in the Middle Atlantic States and record-setting snowfall in the middle Ohio Valley.

Snow Depth (Inches) February 9, 1998



Experimental product based on preliminary data
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY

The NWS co-operative observer network is the principal source of the snow depth reports.

International Weather and Crop Summary

February 1 - 7, 1998

HIGHLIGHTS

FSU-WESTERN: Overwintering conditions remained favorable for winter grains.

EUROPE: Gradual warming improved overwintering conditions for winter grains in the north, while a series of storms brought locally heavy rain to southern Europe.

NORTHWESTERN AFRICA: Soaking rains benefited winter grains in Morocco, while farther east, light showers in Algeria eased persistent dryness, improving conditions for crops.

AUSTRALIA: Late-week rain brought much-needed moisture to eastern sorghum and cotton crops.

SOUTH AFRICA: Drier weather along with above-normal temperatures increased crop stress across most of the corn belt.

SOUTHEAST ASIA: Showers continued to benefit main-season rice in Java, while below-normal rainfall returned to the eastern Philippines.

CHINA: Winter wheat remained dormant across the North China Plain, despite above-normal temperatures.

SOUTH AMERICA: Heavy showers maintained high soil moisture for soybeans and corn in central Argentina and Rio Grande do Sul, Brazil.

January 1998

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

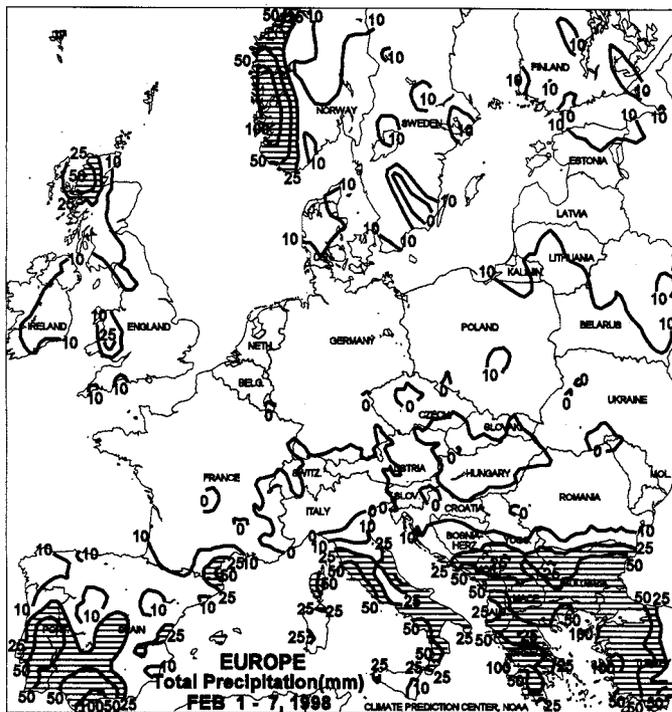
COUNTRY CITY	TEMPERATURE (C)					PRECIPITATION (MM)	
	AVG MAX	AVG MIN	HI MAX	LO MIN	AVG	DPART F/NRM	TOTAL F/NRM
NORWAY OSLO	-1	-5	4	-16	-3	4.2	58 -2
SWEDEN STOCKHOLM	2	-1	8	-11	0	3.0	5 -34
FINLAND HELSINKI	-1	-3	3	-16	-2	4.8	65 24
UKINGDO GLASGOW	7	2	14	-7	5	1.0	117 -15
EDINBURGH	7	2	14	-3	5	1.5	99 41
LONDON	9	4	14	-4	6	2.0	120 42
IRELAND DUBLIN	8	4	16	-5	6	0.6	79 10
ICELAND REYKJAVIK	2	-1	8	-12	1	1.0	58 -20
DENMARK COPENHAGEN	4	0	9	-9	2	2.0	31 -18
LUXEMBO LUXEMBOURG	5	1	11	-8	3	2.5	76 5
SWITZERL ZURICH	4	0	12	-6	2	2.1	80 12
GENEVA	6	1	13	-3	3	2.5	88 8
FRANCE PARIS/ORLY	8	2	15	-7	5	***	53 **
STRASBOURG	6	1	14	-8	3	2.4	28 -10
BOURGES	8	2	17	-3	4	1.1	90 30
BORDEAUX	12	5	18	-3	8	2.3	108 12
TOULOUSE	11	4	20	-5	7	2.1	32 -20
MARSEILLE	12	4	16	-2	8	1.5	22 -24
SPAIN VALLADOLID	10	3	15	-2	7	2.8	69 22
MADRID	12	3	17	-2	7	1.4	37 -14
SEVILLE	16	8	20	4	12	0.6	63 -1
PORTUGA LISBON	15	9	18	5	12	0.9	65 -54
GERMANY HAMBURG	6	2	13	-7	4	3.4	87 26
BERLIN	6	1	14	-9	3	3.3	55 12
DUSSELDORF	7	3	14	-9	5	2.9	52 -11
LEIPZIG	5	1	13	-10	3	3.4	27 -7
DRESDEN	5	1	12	-11	2	3.4	28 -12
STUTT GART	5	-1	13	-9	2	2.8	41 -8
NURNBERG	5	-1	13	-12	2	2.3	40 -5
AUSTRIA VIENNA	5	-1	15	-13	2	2.9	19 -9
INNSBRUCK	6	-3	14	-11	0	2.0	45 -3
CZECHRE PRAGUE	3	-2	12	-12	0	2.6	9 -15
POLAND WARSAW	3	-3	9	-11	0	3.5	22 0
LODZ	3	-2	10	-13	1	3.1	41 3
KATOWICE	4	-1	11	-11	2	4.0	50 8
PRZEMYSL	4	-2	10	-10	1	4.4	37 7
HUNGARY BUDAPEST	6	0	14	-9	3	4.0	51 19
YUGOSLA BELGRADE	8	2	16	-6	5	4.0	71 22
ROMANIA BUCHAREST	5	-4	13	-14	0	2.7	62 15
BULGARIA SOFIA	7	-2	12	-11	2	3.7	31 -8
ITALY MILAN	8	2	14	-5	5	3.8	50 -14
VERONA	8	2	13	-4	5	3.0	32 -47
VENICE	8	2	13	-4	5	2.8	25 -36
GENOA	13	8	17	3	11	2.9	99 9
ROME	15	4	17	-1	9	1.2	34 -50
NAPLES	14	6	18	1	10	1.9	62 -43
GREECE THESSALONIKA	9	3	15	-3	7	1.5	30 -10
LARISSA	11	2	17	-3	6	0.8	17 -41
ATHENS	14	7	18	3	11	0.4	17 -39
TURKEY ISTANBUL	9	4	19	-1	7	1.7	26 -60
ANKARA	6	-4	12	-18	1	0.5	17 -15
CYPRUS LARNACA	17	7	19	3	12	-0.3	73 -21
ESTONIA TALLINN	0	-2	4	-12	-1	4.7	61 10
LITHUANI KAUNAS	2	-2	8	-13	0	4.9	62 26
BELARUS MINSK	0	-3	6	-13	-1	5.5	44 6
RUSSIA KAZAN	-9	-14	-2	-27	-10	2.6	32 1
MOSCOW	-3	-8	2	-20	-5	4.3	44 4
YEKATERINBURG	-9	-13	-3	-21	-11	2.9	17 -6
OMSK	-19	-26	-11	-38	-23	-8.3	4 -18
NOVOSIBIRSK	-18	-25	-6	-35	-21	-2.1	4 -16
BARNAUL	-17	-26	-6	-38	-23	-7.9	4 -20
KHABAROVSK	-19	-26	-12	-33	-23	-2.4	9 -3
VLADIVOSTOK	-11	-17	1	-23	-14	-1.3	5 -7
SARATOV	-8	-11	0	-20	-11	0.1	15 -19
VOLGOGRAD	-7	-11	1	-23	-9	-0.8	43 8
ASTRAKHAN	-3	-9	5	-20	-6	-0.9	14 0
KRASNODAR	3	-3	8	-13	0	0.4	72 6
ORENBURG	-11	-17	-1	-32	-14	-0.2	69 43
KAZAKHS TSELINOGRAD	-13	-21	-7	-29	-17	-1.4	7 -10
KARAGANDA	-12	-20	-8	-27	-16	-2.2	8 -13

Based on Preliminary Reports

January 1998

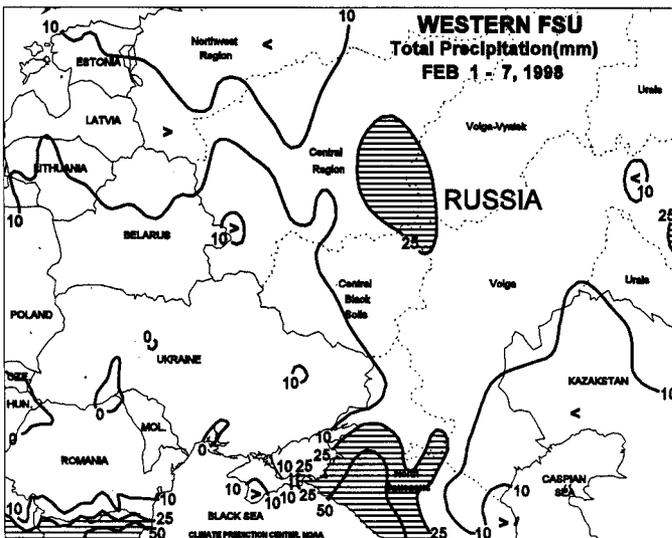
COUNTRY CITY	TEMPERATURE (C)						PRECIPITATION (MM)			COUNTRY CITY	TEMPERATURE (C)						PRECIPITATION (MM)		
	AVG MAX	AVG MIN	HI	LO	AVG	DPART F/NRM	TOTAL	DPART F/NRM	AVG MAX		AVG MIN	HI	LO	AVG	DPART F/NRM	TOTAL	DPART F/NRM		
GEORGIA TBILISI	6	0	11	-5	3	1.2	29	9		JOHANNESBURG	25	14	28	7	19	-0.5	154	29	
UZBEKIST TASHKENT	5	-1	13	-12	2	1.0	95	40		BETHAL	24	14	28	7	19	-0.4	197	63	
TURKMENI ASHKHABAD	5	0	13	-4	2	0.0	38	16		DURBAN	28	21	34	17	24	-0.2	93	-41	
SYRIA DAMASCUS	13	2	17	-6	7	0.8	25	-10		CAPE TOWN	26	16	37	11	20	-0.2	10	-4	
ISRAEL JERUSALEM	12	5	16	-1	8	-0.1	141	4	CANADA	TORONTO	1	-5	11	-14	-2	4.4	97	51	
PAKISTAN KARACHI	25	13	28	10	19	1.1	6	0		MONTREAL	-3	-11	7	-26	-8	2.7	151	88	
INDIA AMRITSAR	19	3	22	-1	11	-0.4	0	-25		WINNIPEG	-11	-18	-3	-31	-14	3.8	24	5	
NEW DELHI	20	7	24	2	13	-0.8	0	-17		REGINA	-12	-22	2	-38	-17	-0.7	16	1	
AHMEDABAD	28	13	31	6	20	0.1	0	-2		SASKATOON	-14	-23	-1	-37	-18	-0.8	13	-3	
INDORE	26	11	31	6	19	0.5	9	4		LETHBRIDGE	-5	-19	14	-39	-11	-3.1	10	-10	
CALCUTTA	23	12	29	7	18	-1.9	55	44		CALGARY	-8	-19	9	-36	-13	-4.2	14	2	
VERAVAL	29	16	32	12	22	0.8	0	-1		EDMONTON	-13	-19	8	-32	-16	-3.9	14	-9	
BOMBAY	31	18	34	12	24	0.9	0	0		VANCOUVER	7	2	12	-10	5	1.8	167	17	
POONA	29	12	32	9	21	0.6	0	0	MEXICO	GUADALAJARA	**	**	26	6	**	**	**	**	
BEGAMPET	30	18	34	13	24	2.2	0	-5		MEXICO CITY	**	**	25	6	**	**	**	**	
VISHAKHAPATNAM	28	22	30	19	25	**	31	**		ACAPULCO	**	**	32	20	**	**	**	**	
MADRAS	31	22	33	21	27	2.0	0	-27		BERMUDA ST. GEORGES	21	17	23	13	19	0.8	64	-61	
MANGALORE	34	22	36	21	28	1.4	0	-5		BAHAMAS NASSAU	26	20	31	15	23	1.6	18	-28	
HONGKO KINGS PEAK	19	15	27	9	16	**	49	**		JAMAICA KINGSTON	31	24	33	22	28	1.8	42	19	
S KOREA SEOUL	3	-4	8	-15	-1	3.6	10	-7		P RICO SAN JUAN	29	23	32	21	26	0.8	185	118	
JAPAN SAPPORO	-3	-9	3	-15	-6	-1.5	109	1		GUADELO RAIZET	30	22	31	19	26	2.2	96	39	
NAGOYA	9	2	12	-4	5	0.7	155	112		MARTINIQU LAMENTIN	29	23	32	20	26	2.0	145	31	
TOKYO	9	2	14	-1	5	0.1	122	77		BARBADO BRIDGETOWN	30	24	30	22	27	1.1	43	-20	
YOKOHAMA	9	2	15	-1	6	0.6	137	75		TRINIDAD PORT OF SPAIN	31	23	32	21	27	2.2	34	-33	
KYOTO	9	2	13	-2	6	1.6	120	63		COLOMBI BOGOTA	22	6	24	-1	14	0.9	3	-29	
OSAKA	9	3	13	-1	6	0.6	113	66		VENEZUE CARACAS	30	23	31	22	26	1.2	0	-31	
THAILAND PHETCHABUN	34	19	36	14	27	3.7	0	-9		F GUIANA CAYENNE	30	24	31	22	27	0.9	180	-248	
BANGKOK	34	25	36	22	30	3.1	45	36		BRAZIL RECIFE	**	**	33	22	28	1.1	67	-24	
MALAYSIA KUALA LUMPUR	34	25	36	23	28	2.2	196	33		BELO HORIZONTE	30	21	34	18	24	1.2	329	31	
VIETNAM HANOI	21	16	31	10	19	1.9	4	-14		FRANCA	**	**	32	18	**	**	154	-143	
CHINA HARBIN	-14	-24	-4	-29	-19	1.5	2	-1		RIO DE JANEIRO	31	26	36	21	**	**	190	38	
HAMI	-4	-18	1	-26	-12	-1.5	2	1		LONDRINA	**	**	36	17	**	**	86	-136	
LANCHOW	1	-11	9	-17	-6	0.3	2	1		SANTA MARIA	29	**	34	14	**	**	241	96	
BEIJING	1	-8	8	-14	-4	0.3	1	-2		PORTO ALEGRE	28	20	37	13	24	-0.8	123	4	
TIENTSIN	1	-9	7	-15	-4	-0.5	1	-3		PERU LIMA	31	24	36	22	28	5.0	1	1	
LHASA	9	-8	16	-12	0	2.1	0	0		BOLIVIA LA PAZ	**	**	20	2	**	**	**	**	
KUNMING	17	4	19	1	10	2.6	11	-2		CHILE SANTIAGO	30	13	35	10	21	0.6	0	0	
CHENGCHOW	5	-4	14	-12	0	-0.5	10	-3		ARGENTIN IGUAZU	33	21	36	18	26	**	150	**	
YEHCANG	7	2	12	-2	4	-0.4	18	-1		FORMOSA	33	25	40	19	28	0.7	271	125	
HANKOW	6	1	14	-4	4	0.6	62	28		CERES	30	20	40	14	24	-1.7	171	41	
CHUNGKING	10	6	14	1	8	**	11	**		CORDOBA	27	17	37	11	22	-1.3	90	-36	
CHIHKIANG	6	3	13	-2	4	-0.3	71	31		RIO CUARTO	27	17	36	11	22	-1.3	138	12	
WU HU	6	0	15	-7	3	**	128	**		ROSARIO	28	18	35	10	23	-1.2	143	38	
SHANGHAI	7	2	17	-4	5	**	196	**		BUENOS AIRES	27	16	32	10	22	-1.4	109	13	
NANCHANG	7	3	14	-3	4	-0.5	280	224		SANTA ROSA	29	15	37	9	22	-1.7	157	85	
TAIPEI	19	14	26	9	16	1.2	140	50		TRES ARROYOS	29	14	40	7	21	-0.6	163	82	
CANTON	16	11	27	5	13	-0.3	81	37		NEW CAL NOUMEA	30	24	35	22	27	1.0	21	-91	
NANNING	15	11	29	5	13	0.2	56	21		FIJI NAUSORI	29	25	32	23	27	0.3	563	244	
CANARY I LAS PALMAS	23	17	26	15	20	2.6	27	12		SAMOA PAGO PAGO	**	**	35	26	30	2.3	137	-198	
MOROCC CASABLANCA	18	10	23	6	14	1.1	48	-14		TAHITI PAPEETE	32	25	34	24	29	2.0	106	-211	
MARRAKECH	19	8	25	3	13	1.2	22	-10		AUSTRALI DARWIN	31	26	33	22	28	-0.3	785	356	
ALGERIA ALGER	18	6	22	-1	12	1.3	27	-69		BRISBANE	29	22	33	19	25	0.0	94	-75	
BATNA	12	-1	18	-8	6	0.7	5	-35		PERTH	31	17	42	13	25	0.3	2	-7	
TUNISIA TUNIS	17	8	20	4	12	0.9	32	-41		CEDNA	26	15	40	8	21	-1.1	6	-4	
NIGER NIAMEY	33	17	41	13	25	0.3	0	0		ADELAIDE	27	16	37	11	22	-0.2	6	-30	
MALI TIMBUKTU	29	18	36	11	22	0.6	0	0		MELBOURNE	25	15	40	9	20	-0.1	40	0	
BAMAKO	33	19	38	15	25	0.5	0	0		WAGGA	31	18	39	11	25	1.7	26	-21	
MAJRITAN NOUAKHOTT	30	16	35	11	23	1.5	0	0		CANBERRA	28	14	38	10	21	0.7	24	-30	
SENEGAL DAKAR	28	20	36	17	23	2.3	0	-2	INDONESIA	DJAKARTA	33	25	35	20	29	2.8	156	**	
CHAGOS DIEGO GARCIA	**	**	34	27	**	**	**	**	PHILIPPI	MANILA	32	25	38	22	28	2.0	6	-13	
LIBYA TRIPOLI	18	7	22	2	12	0.4	34	-26											
BENGHAZI	17	11	20	9	14	1.0	56	-9											
EGYPT CAIRO	19	10	25	7	15	0.8	0	-6											
ASWAN	22	9	29	6	16	0.1	0	0											
ETHIOPIA ADDIS ABABA	24	10	28	8	17	1.1	67	42											
KENYA NAIROBI	24	16	28	11	20	0.9	202	160											
TANZANIA DAR ES SALAAM	**	**	33	22	28	0.4	107	22											
GABON LIBREVILLE	31	23	33	21	27	0.1	231	-56											
TOGO LOME	32	23	35	18	27	0.2	0	-14											
BURKINA OUAGADOUGOU	33	18	40	14	25	0.4	0	0											
COTE D'I ABIDJAN	32	24	34	21	28	1.0	25	8											
MOZAMBI MAPUTO	30	23	36	18	27	0.4	246	65											
ZAMBIA LUSAKA	**	**	29	17	**	**	122	-108											
ZIMBABW HARARE	27	18	30	16	22	1.8	275	84											
S AFRICA PRETORIA	29	18	34	0	23	0.7	109	-26											

Based on Preliminary Reports



EUROPE

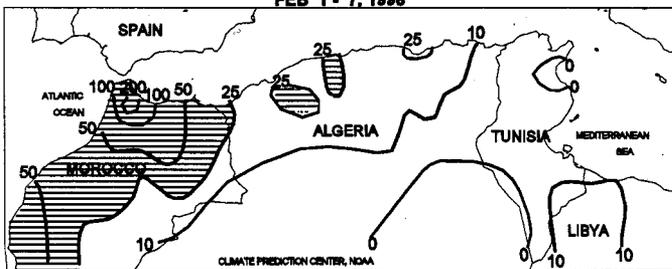
Unseasonably cold weather in the northern two-thirds of Europe early in the week was followed by a warming trend as the week progressed, improving overwintering conditions for winter crops. Light, if any, precipitation (generally less than 10 mm) was observed in England, France, Germany, northern Italy, the Czech Republic, Slovakia, Hungary, Poland, and Romania. The precipitation fell in the form of rain in western areas, with light snow turning to rain by week's end in Poland and Romania. Farther south, a series of storms moved eastward across southern Europe, bringing moderate to locally heavy rain (25-75 mm or more) to southern Portugal, southern Spain, peninsular Italy, and the Balkans. Greatest amounts of precipitation (50-142 mm) fell in the southern Iberian peninsula, likely causing some renewed flooding. Weekly temperatures averaged 2 to 5 degrees C below normal over most of Europe, except in the Iberian peninsula, where temperatures averaged 2 to 4 degrees C above normal.



FSU-WESTERN

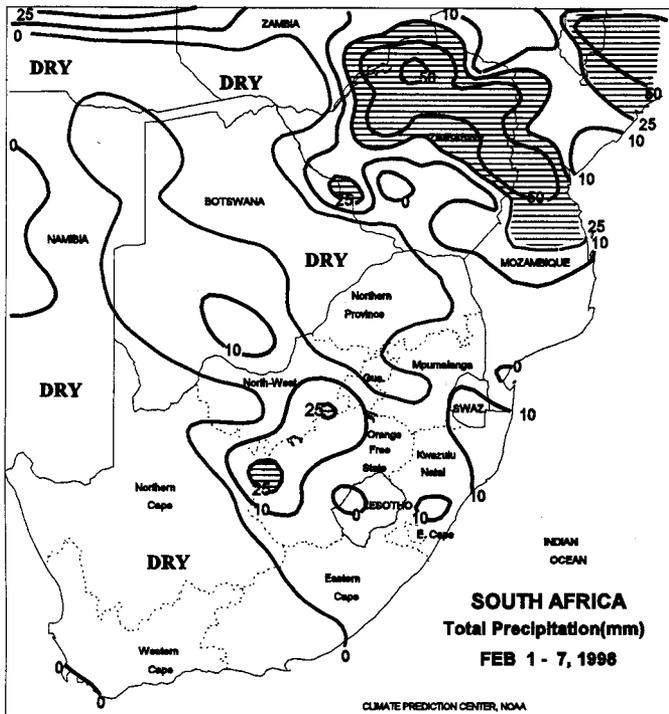
Overwintering conditions remained favorable for dormant winter grains. In most areas, unseasonably cold weather early in the week was followed by a gradual moderation in temperatures as the week progressed. Light precipitation (2-10 mm) was observed early in the week in Ukraine and southern Belarus, falling mainly in the form of snow. However, temperatures on February 1-6 rose above freezing (1 to 6 degrees C) in these areas, causing some melting of protective snow cover. In the North Caucasus region in Russia, light to moderate amounts of rain along with a wintry mix of precipitation (10-50 mm or more) boosted moisture reserves. Elsewhere, light to moderate snow (10-33 mm liquid equivalent) fell in northern and eastern winter grain areas in Russia, northern Belarus, Estonia, and Latvia, increasing snow cover. By week's end, bitterly cold air (minimum temperatures ranging from -15 to -30 degrees C) spread westward across northernmost winter grain areas in Russia into Estonia, threatening winter grains. However, a fresh snow cover in these areas protected winter grains from potential winterkill.

**NORTHWEST AFRICA Total Precipitation (mm)
FEB 1 - 7, 1998**



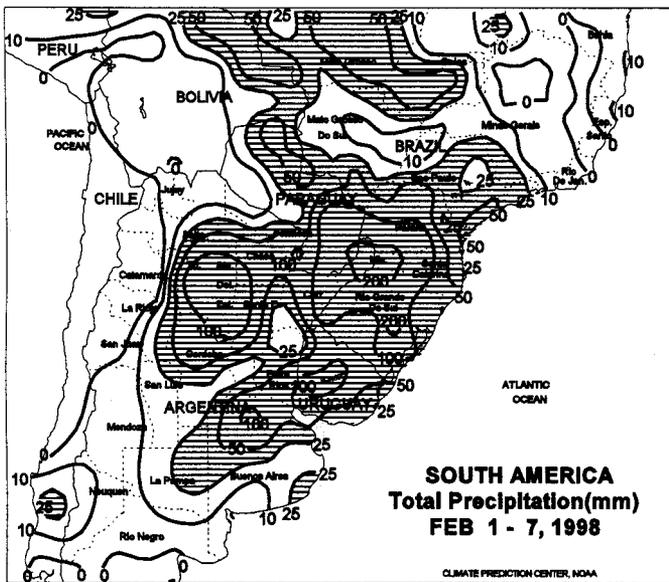
NORTHWESTERN AFRICA

Winter grains remained in the vegetative stage over most of the region. Soaking rain (25 to more than 50 mm) favored winter grain development in Morocco. Light to moderate showers (10-32 mm) in Algeria eased persistent dryness, improving moisture conditions for crops. In Tunisia, light, if any, precipitation (2-7 mm) fell in winter grain areas. Weekly temperatures averaged 3 to 5 degrees C above normal in Morocco, Algeria, and Tunisia, boosting vegetative growth but increasing evaporation rates. Additional rains will be needed throughout the entire region in upcoming weeks as winter grains advance through the reproductive phase of development, typically from mid-March to mid-April.



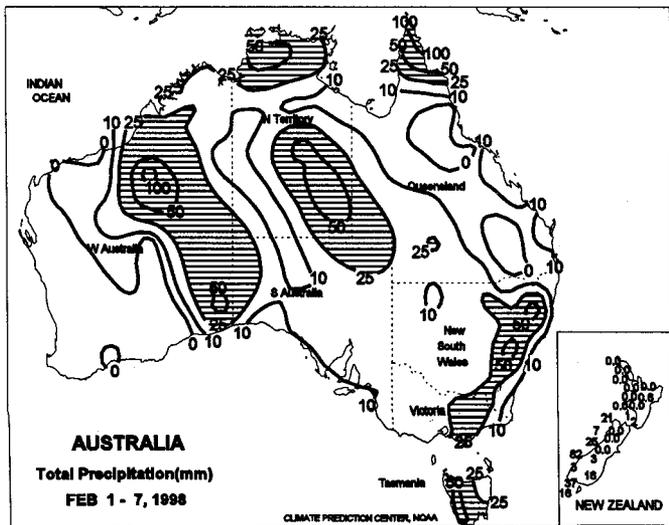
SOUTH AFRICA

Mostly dry (less than 5 mm) weather covered the corn areas of South Africa, increasing stress on vegetative to reproductive corn. Temperatures averaged 1 to 3 degrees C above normal as highs ranged from 30 to 35 degrees C. Isolated showers (20-35 mm) brought only local relief to the western corn areas. Typically during early February, the main corn belt receives about 20 to 25 mm per week. Widespread rain is needed and can still be beneficial since a portion of the crop was planted late. Light rain (5-18 mm) benefited coastal sugarcane. Elsewhere in southern Africa, moderate showers (25-60 mm) fell across central Zambia into northern and eastern Zimbabwe. Southern Zimbabwe received only light showers (less than 10 mm). Temperatures averaged near to slightly above normal in Zimbabwe.



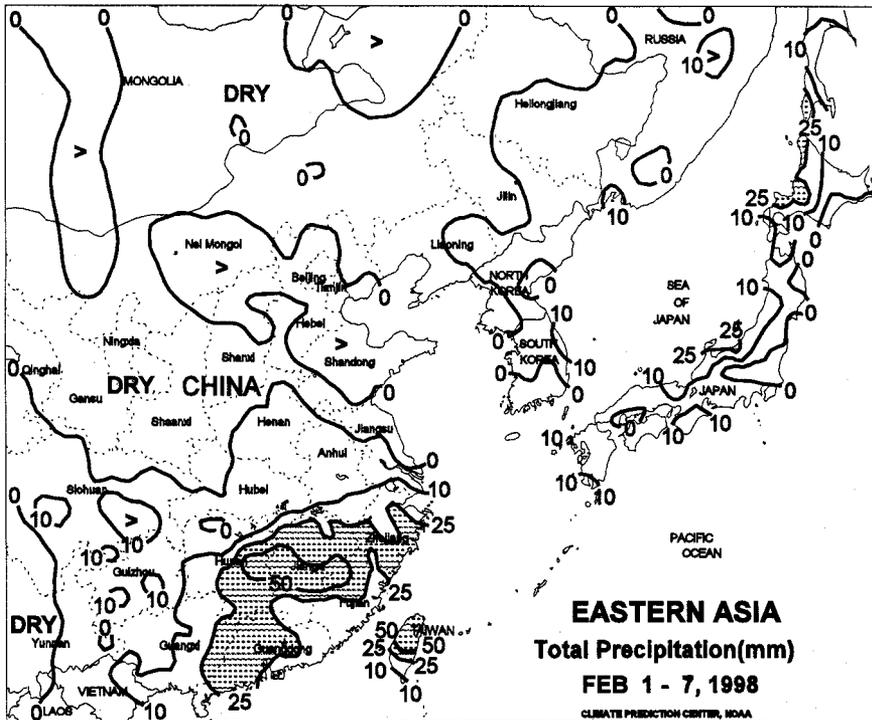
SOUTH AMERICA

In central Argentina, widespread rain (20-44 mm, with isolated amounts greater than 100 mm) and cool weather (temperatures averaging 1-4 degrees C below normal) maintained ideal conditions for reproductive soybeans and filling corn. Heavier showers (73-110 mm) fell across northern Argentina, boosting moisture supplies for cotton but causing some flooding. Heavy showers (100-238 mm) continued across the border into southern Paraguay and Rio Grande do Sul and Parana, Brazil, aiding soybeans, but causing local flooding. Elsewhere in southern Brazil, moderate showers (25-80 mm) favored reproductive soybeans, where temperatures averaged 2 to 4 degrees C above normal.



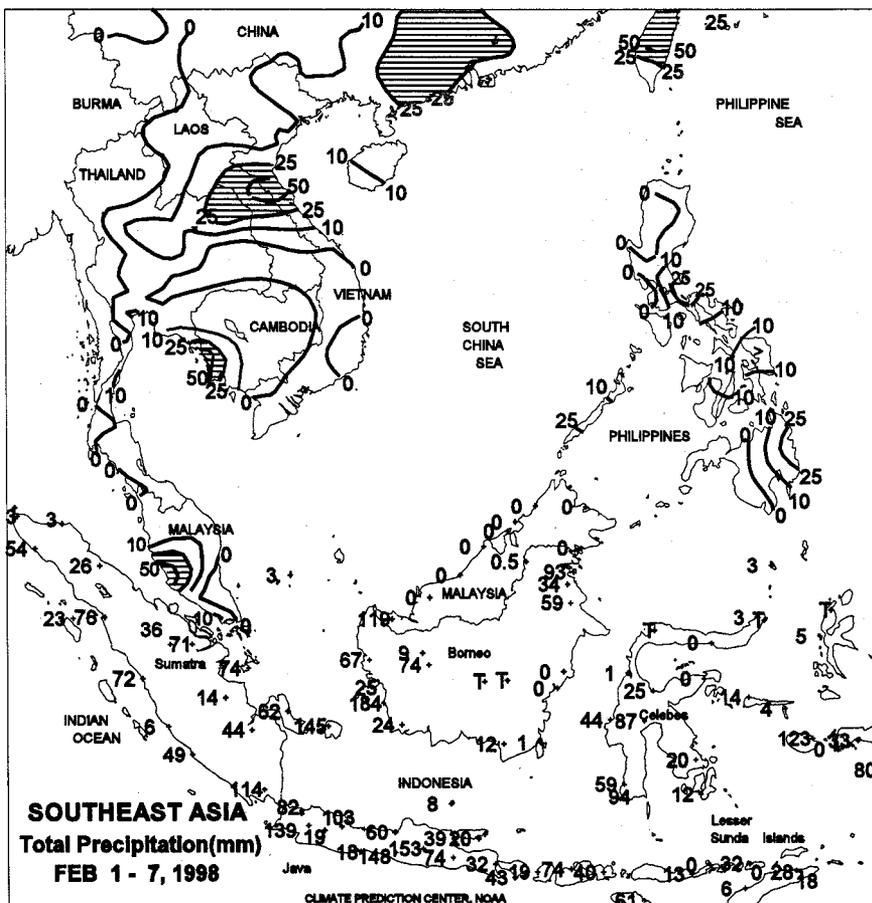
AUSTRALIA

Beneficial rain (5-40 mm) covered the sorghum and cotton areas of northern New South Wales, which had been tending dry. Southern Queensland received little or no rain during the week, after last week's beneficial rain. Temperatures averaged 2 to 4 degrees C above normal, increasing crop water use. However, on Sunday, February 8, widespread showers (10-44 mm, with isolated amounts over 100 mm) boosted moisture supplies across southern Queensland. Mostly dry weather prevailed across the northeastern sugarcane areas. In New Zealand, light to moderate rainfall (less than 25 mm) covered the main agricultural areas.



EASTERN ASIA

Warm, dry weather (temperatures averaging 1-3 degrees C above normal) prevailed across the North China Plain, but temperatures were low enough to keep winter wheat dormant. Moderate rain (25-56 mm) covered southern China, maintaining abundant moisture for vegetative winter grains and oilseeds.



SOUTHEAST ASIA

In Java and southern Sumatra, widespread heavy showers (50-160 mm) continued to benefit main-season rice and reduce long-term moisture deficits. This was the wettest week so far across Java during the current rainy season. Drier weather (less than 30 mm) prevailed across eastern Philippines, reducing moisture supplies after last week's beneficial rainfall. In northern Luzon, continued dry weather worsened drought. Unseasonably heavy rain (10-25 mm) fell across northeastern Thailand, boosting moisture supplies for second-crop rice. Warm weather (temperatures averaged 2-4 degrees C above normal) across Thailand reduced moisture supplies. Moderate showers (10-50 mm) aided oil palm across western peninsular Malaysia, while drier weather was reported in the east. Rainfall has been below normal for the past 4 weeks across the Malaysian provinces of Sarawak and Sabah (northern Borneo).

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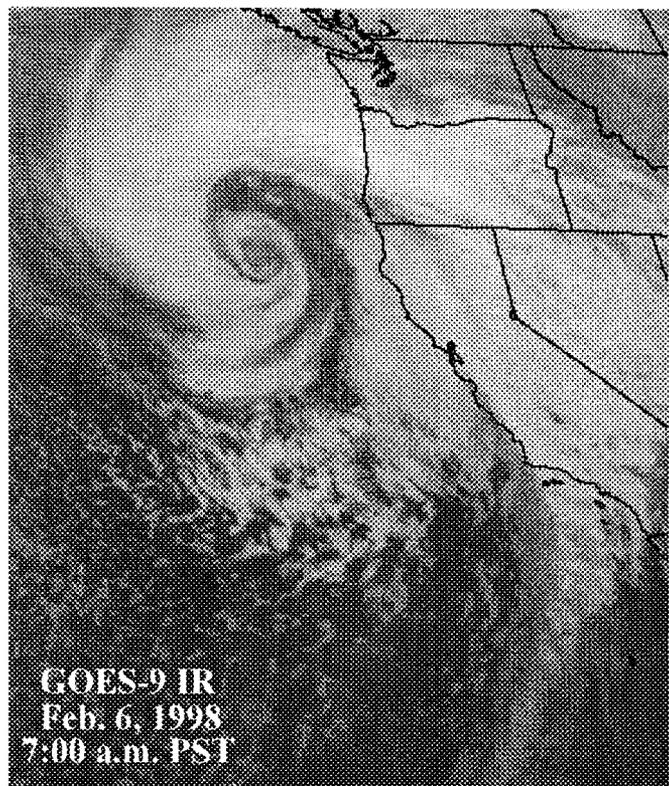
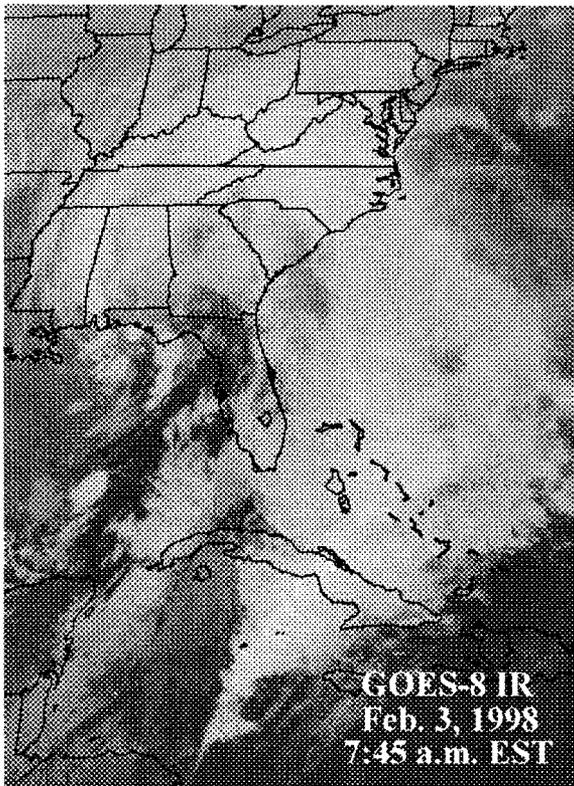
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Coastal Assault: For the second time in a week, a major low-pressure system batters the Southeast (left photo) with high winds, rough surf, and heavy precipitation. The storm's central pressure dropped to about 29.06 inches (984 millibars) over South Carolina a day after GOES-8 captured this image. Three days later, the week's strongest storm (as measured by its minimum central pressure of about 28.41 inches, or 962 millibars) causes similar problems along the West Coast (right).

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