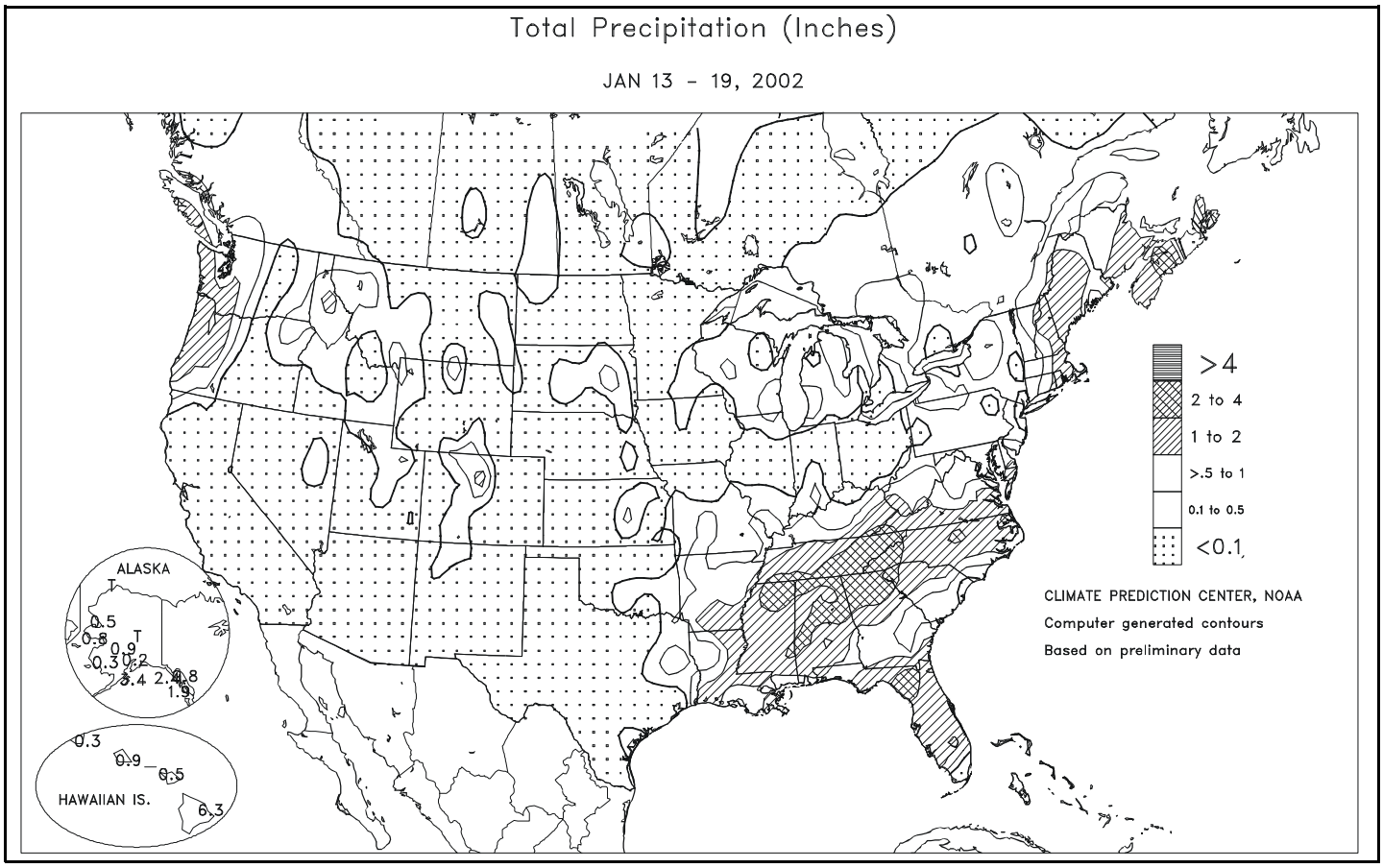
Volume 89, No. 04 http://www.usda.gov/oce/waob/jawf/wwcb.html January 23, 2002

WEEKLY WEATHER AND CROP BULLETIN

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

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



HIGHLIGHTS

January 13 - 19, 2002

Highlights provided by USDA/WAOB

Cold weather prevailed across **California** and the **Intermountain West**, holding weekly temperatures as much as 7ºF below normal. From January 16-21, low temperatures generally ranged from 26 to 36ºF in **California's San Joaquin Valley**, slowing winter grain development but causing little or no harm to the valley's citrus crop. Meanwhile, mostly dry weather prevailed in **northern California**, the **Great Basin**, and the **Northwest**, following frequently heavy, drought-easing precipitation from mid-November to early January. Farther south, persistent dryness brought increasing summer water-supply concerns to the **Four Corners region**. Mild, dry

(Continued on page 3)

Contents

Weather Data for the Delta and Bootheel & **Corrected Western Reservoir Storage Graphic . 2**
Temperature Departure & Extreme Minimum Temperature Maps 3
National Weather Data for Selected Cities 4
National Agricultural Summary & Snow Cover Map 7
International Weather and Crop Summary 8
Subscription Information & January 15 Drought Monitor 12

Weather Data for Selected Locations in the Delta and the Bootheel

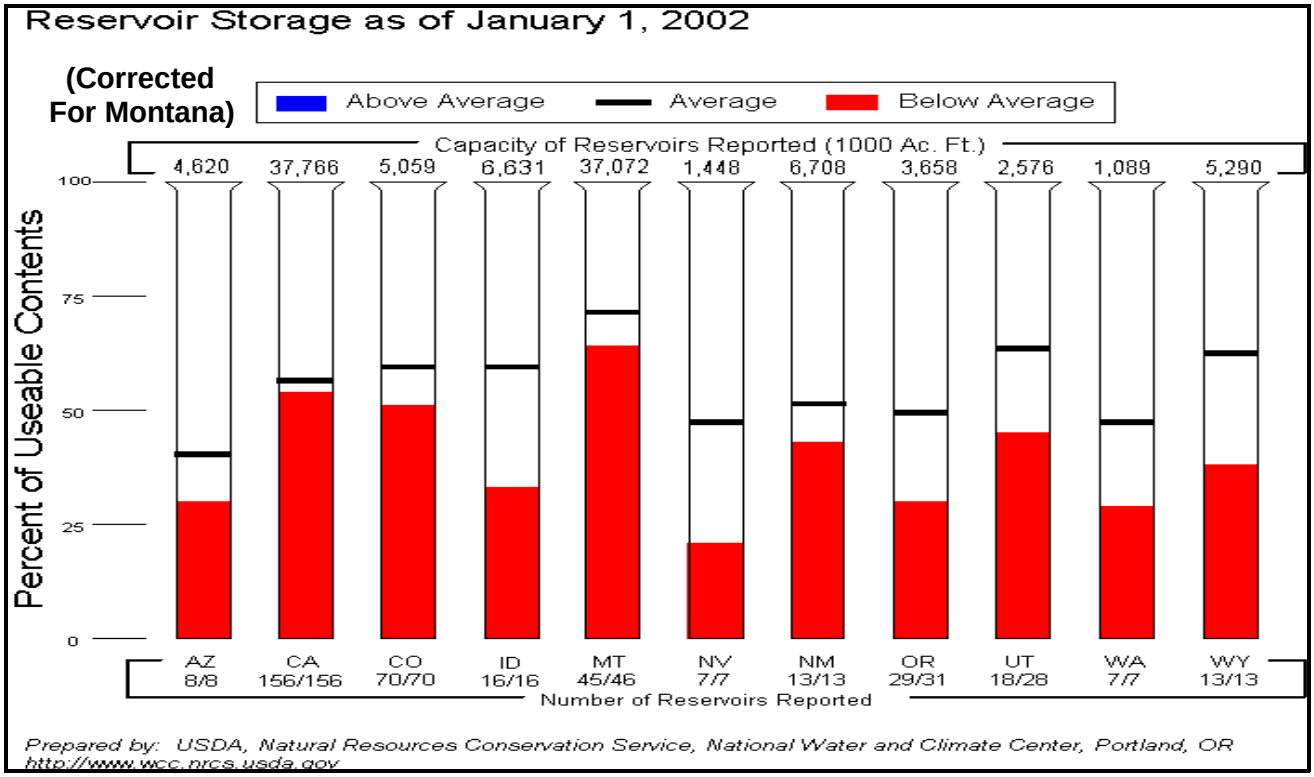
Weather Data for the Week Ending January 19, 2002

Data provided by the Mississippi State Delta Research and Extension Center (DREC), the Southern Regional Climate Center (SRCC), and the University of Missouri.

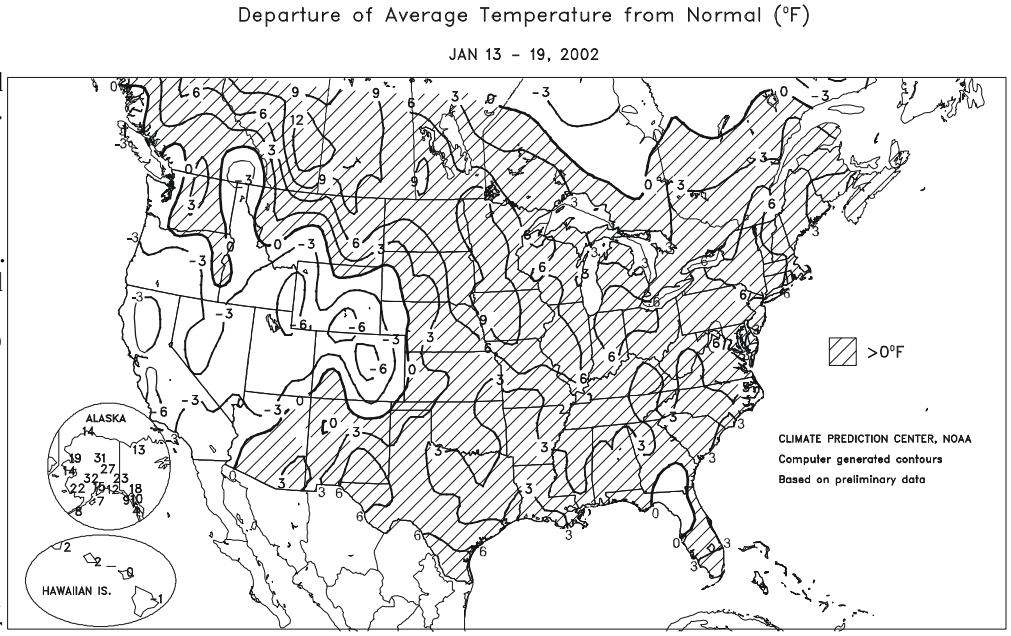
STATES AND STATIONS		TEMPERATURE °F						PRECIPITATION							4-INCH SOIL TEMP, °F		NUMBER OF DAYS			
																	TEMP. °F		PRECIP	
		AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Dec 1	PCT. NORMAL SINCE Dec 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
MS	BATESVILLE x	54	32	58	25	43	4	2.32	1.26	1.95	13.05	147	4.52	150	--	--	0	3	2	1
	CLARKSDALE x	53	32	58	28	43	3	2.41	1.22	1.76	14.46	171	3.23	104	--	--	0	4	2	2
	CLEVELAND x	54	33	60	30	44	2	1.70	0.65	1.40	9.69	122	3.13	108	--	--	0	2	2	1
	GREENVILLE x	58	33	64	30	46	4	0.79	-0.42	0.59	11.29	133	2.03	62	--	--	0	2	2	1
	GREENWOOD x	56	33	61	28	45	2	0.61	-0.58	0.50	9.82	113	1.92	58	--	--	0	3	2	1
	INDIANOLA 1S	54	35	60	32	45	--	0.75	--	0.63	9.21	--	2.37	--	48	43	0	2	3	1
	INVERNESS 5E	55	36	60	33	46	--	0.93	--	0.80	10.52	--	2.54	--	50	44	0	0	3	1
	LYON	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	MOORHEAD x	56	36	60	30	46	3	0.78	-0.45	0.67	9.08	98	1.50	44	--	--	0	1	2	1
	ONWARD	59	36	67	33	48	--	0.66	--	0.53	9.25	--	2.28	--	50	46	0	0	2	1
	ROLLING FORK x	60	36	64	31	48	5	0.78	-0.55	0.51	6.48	70	1.24	34	--	--	0	2	2	1
	SCOTT	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SIDON	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TUNICA x	51	33	56	30	42	3	1.09	0.04	0.82	12.32	146	2.05	70	--	--	0	4	2	1
	TUNICA 1W	50	33	57	29	42	--	1.17	--	0.42	12.44	--	2.11	--	45	41	0	4	3	0
	VANCE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	VICKSBURG x	62	36	70	30	49	2	0.49	-0.98	0.38	8.66	90	1.91	48	--	--	0	2	2	0
	YAZOO CITY x	59	34	67	30	47	2	0.25	-1.19	0.25	9.40	92	1.91	48	--	--	0	4	1	0
	STONEVILLE *	56	34	62	32	45	4	0.93	-0.31	0.75	11.89	134	2.80	82	51	43	0	2	2	1
MO	CARDWELL	49	30	54	25	39	4	0.35	-0.36	0.28	9.75	141	0.84	43	45	41	0	6	2	0
	CHARLESTON	45	25	51	12	35	4	0.34	-0.27	0.19	8.73	141	0.74	50	40	36	0	7	2	0
	CLARKTON	47	28	53	20	37	5	0.33	-0.33	0.24	10.66	172	0.82	47	--	--	0	6	2	0
	DELTA	44	22	50	6	34	2	0.25	-0.74	0.16	7.29	103	0.63	30	38	34	0	6	2	0
	GLENNONVILLE	46	28	52	19	37	5	0.40	-0.26	0.21	9.41	152	0.84	48	42	37	0	5	2	0
	PORTAGEVILLE #1	47	30	53	23	38	5	0.32	-0.42	0.20	9.55	135	0.76	38	44	37	0	5	2	0
	PORTAGEVILLE #2	48	30	52	22	38	5	0.29	-0.45	0.20	9.10	129	0.70	35	43	37	0	6	2	0
	STEELE	49	32	55	25	39	6	0.36	-0.41	0.31	9.03	123	0.90	43	43	38	0	5	2	0

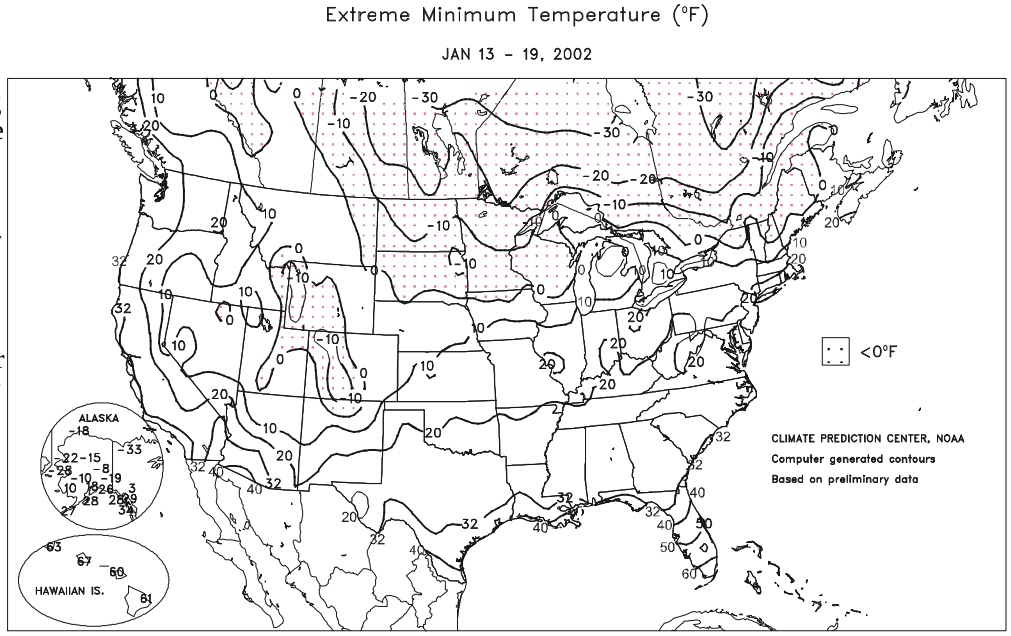
Compiled by USDA/OCE/WAOB's Stoneville Field Office. * Based on 1964-93 normals. x Based on 1961-90 normals.

Delta and Bootheel Weather and Crop Summary: Temperatures remained above normal following the passage of a dry cold front early in the week. A second, late-week cold front stalled south of the region and became a focus for showers. Weekly rainfall totals were mostly below normal. Winter wheat that survived earlier flooding continued to develop with recent warmth and sunshine.



(Continued from front cover)
weather also prevailed across the **Plains** and **Midwest**, maintaining low levels of livestock stress and favoring off-season fieldwork. However, most winter wheat fields on the **Plains** were lacking in snow cover and in need of moisture to prevent damage due to wind erosion and potential temperature extremes. Bitterly cold air remained locked across **central Canada**, though, allowing weekly temperatures to range from 5 to 13°F above normal in the **Corn Belt**. Meanwhile, drought-easing precipitation aided pastures and winter grains across the **Southeast** for the third consecutive week. Farther north, late-week snowfall blanketed areas from the **Ohio Valley into the Northeast**, reducing long-term precipitation deficits in the latter region.





Some locations in the **San Joaquin Valley** reported sub-freezing temperatures on 6 consecutive mornings from January 16-21. **Bakersfield, CA**, which noted four freezes during the period, experienced lows ranging from 27 (on January 19) to 34°F. The cold weather was not without some benefit, providing much-needed "chill hours" for fruit trees. Farther south, daily-record lows on January 19 included 15°F in **Douglas, AZ**, and 26°F in **Thermal, CA**.

Meanwhile, late-week showers accompanied a return to warm weather in the **Southeast**. On Saturday in **Georgia**, **Macon** posted a daily record-tying high of 76°F, while **Atlanta** netted 1.87 inches of rain, their highest 1-day total since 2.86 inches fell on June 1, 2001. Farther north, **Jackson, KY**, received a daily-record snowfall (5.6 inches) on January 19, while storm-total snowfall reached 6.0 inches in **Worcester, MA**, 5.0 inches in **Bridgeport, CT**, and 4.0 inches in **Philadelphia, PA**. Earlier in the week, a previous storm system had blanketed **northern New England** with snow, leaving locally as much as 20 inches in **Maine's Aroostook and Penobscot Counties**. Storm-total (January 13-14) snowfall reached 7.3 inches in **Caribou, ME**. Farther west, however, season-to-date snowfall through January 19 remained less than 5 inches in such **Midwestern** locations as **Des Moines, IA** (2.0 inches), **Rockford, IL** (3.0 inches), and **LaCrosse, WI** (4.1 inches).

On the **Plains**, frequently gusty winds and mostly bare soils left much of the winter wheat crop exposed. In **Cut Bank, MT**, wind gusts higher than 40 mph were clocked on 10 of the first 20 days in January, with gusts above 60 mph on January 7, 8, 12, and 20. High winds also swept across the **Colorado Front Range** on January 20, producing peak gusts to 93 mph in **Larimer County**, near **Estes Park**.

A storm system drifted westward across **Hawaii** toward week's end, triggering locally heavy showers. In **Pukalani, Maui**, where January precipitation averages 4.40 inches, rainfall totaled 2.81 inches in 48 hours from January 18-20. Other 48-hour totals during the same period included 3.41 inches in **Kokee, Kauai**, and 5.69 inches in **Laupahoehoe**, on the **Big Island**. Meanwhile, cold weather nearly vanished from **Alaska**, propelling weekly temperatures more than 30°F at some interior locations. On January 15, high temperatures reached 44°F in **Anchorage** and **King Salmon**. Significant precipitation was observed across much of **western and southern Alaska**, where January 1-20 snowfall reached 22.5 inches in **McGrath** and 20.7 inches in **Nome**. During the same period, precipitation totaled 11.06 inches on **Kodiak Island**.

National Weather Data for Selected Cities

Weather Data for the Week Ending January 19, 2002

Data Provided by Climate Prediction Center (301-763-8000, Ext. 7503)

STATES AND STATIONS		TEMPERATURE EF						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																	TEMP. EF		PRECIP	
		AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Dec 1	PCT. NORMAL SINCE Dec 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL	BIRMINGHAM	59	32	63	26	46	4	2.14	0.87	1.99	7.60	97	2.84	85	93	49	0	4	2	1
	HUNTSVILLE	54	30	57	24	42	3	1.63	0.37	1.50	8.38	93	2.07	61	90	58	0	4	2	1
	MOBILE	65	40	76	30	52	2	0.62	-0.72	0.44	5.98	74	3.15	92	95	66	0	2	3	0
	MONTGOMERY	61	35	74	26	48	2	0.80	-0.33	0.80	4.89	62	1.80	61	95	56	0	3	1	1
AK	ANCHORAGE	34	26	44	18	30	14	0.20	0.06	0.13	0.52	36	0.32	78	95	89	0	7	3	0
	BARROW	7	-5	21	-18	1	15	0.03	0.03	0.02	0.14	117	0.08	800	88	80	0	7	2	0
	FAIRBANKS	26	7	36	-8	16	26	0.03	-0.08	0.03	0.20	19	0.11	32	91	84	0	7	1	0
	JUNEAU	38	33	40	29	36	11	0.79	-0.27	0.22	6.62	79	2.13	71	97	92	0	2	7	0
	KODIAK	41	32	43	28	36	6	3.42	1.56	1.18	18.02	141	10.21	200	95	71	0	4	7	3
	NOME	30	9	37	-28	20	14	0.82	0.63	0.39	1.78	116	1.25	240	94	78	0	7	4	0
AZ	FLAGSTAFF	44	16	56	2	30	0	0.02	-0.46	0.02	1.18	39	0.02	2	80	22	0	7	1	0
	PHOENIX	66	45	73	39	56	2	0.00	-0.17	0.00	0.88	62	0.00	0	54	31	0	0	0	0
	TUCSON	67	41	76	29	54	3	0.00	-0.21	0.00	0.60	37	0.00	0	42	25	0	1	0	0
	YUMA	67	46	74	41	57	-1	0.00	-0.07	0.00	0.01	2	0.00	0	36	30	0	0	0	0
AR	FORT SMITH	50	30	61	24	40	3	0.22	-0.30	0.21	6.20	129	0.50	35	85	45	0	4	2	0
	LITTLE ROCK	52	31	62	26	42	2	0.55	-0.25	0.39	9.00	130	1.12	51	90	44	0	5	3	0
CA	BAKERSFIELD	51	35	59	27	43	-5	0.00	-0.26	0.00	0.80	56	0.14	21	88	71	0	3	0	0
	FRESNO	49	35	53	30	42	-4	0.00	-0.49	0.00	2.54	99	0.61	50	94	82	0	4	0	0
	LOS ANGELES	63	48	67	44	56	-1	0.01	-0.66	0.01	1.47	43	0.17	10	78	60	0	0	1	0
	REDDING	58	35	63	28	46	1	0.00	-1.50	0.00	12.11	142	2.82	73	72	42	0	1	0	0
	SACRAMENTO	53	33	56	28	43	-3	0.00	-0.88	0.00	8.01	173	1.73	79	99	51	0	4	0	0
	SAN DIEGO	61	48	63	42	55	-3	0.00	-0.52	0.00	0.61	23	0.16	12	78	61	0	0	0	0
	SAN FRANCISCO	55	41	57	37	48	-1	0.02	-1.00	0.02	9.47	174	0.93	36	87	70	0	0	1	0
	STOCKTON	51	32	54	27	41	-5	0.00	-0.62	0.00	6.43	191	1.40	91	97	89	0	4	0	0
CO	ALAMOSA	33	-2	41	-13	15	1	0.00	-0.05	0.00	0.31	66	0.18	129	78	49	0	7	0	0
	CO SPRINGS	35	11	47	2	23	-5	0.00	-0.05	0.00	0.21	36	0.12	71	74	33	0	7	0	0
	DENVER INTL	35	14	48	6	25	-3	0.00	-0.04	0.00	0.43	91	0.29	181	78	39	0	7	0	0
	GRAND JUNCTION	36	14	43	8	25	-1	0.02	-0.11	0.02	0.40	45	0.09	24	84	56	0	7	1	0
	PUEBLO	41	8	51	2	25	-4	0.00	-0.06	0.00	0.43	73	0.21	105	73	40	0	7	0	0
CT	BRIDGEPORT	41	30	46	24	36	6	0.42	-0.43	0.23	3.43	59	1.40	61	83	50	0	5	4	0
	HARTFORD	38	27	43	21	32	6	0.38	-0.50	0.20	3.11	52	0.90	38	85	56	0	7	3	0
DC	WASHINGTON	47	34	54	32	41	7	0.37	-0.36	0.37	2.71	54	1.18	59	74	38	0	2	1	0
DE	WILMINGTON	44	29	52	23	36	5	0.49	-0.29	0.49	2.90	52	0.93	43	85	44	0	5	1	0
FL	DAYTONA BEACH	70	47	81	41	59	1	1.00	0.28	0.87	2.04	44	1.69	89	99	58	0	0	2	1
	JACKSONVILLE	66	40	80	34	53	0	1.96	1.11	1.85	5.93	124	2.80	130	99	58	0	0	3	1
	KEY WEST	77	68	79	65	72	2	0.02	-0.48	0.01	3.64	103	0.08	6	97	79	0	0	2	0
	MIAMI	80	66	82	63	73	5	0.00	-0.39	0.00	3.25	100	0.21	20	96	67	0	0	0	0
	ORLANDO	72	50	81	44	61	0	0.43	-0.12	0.39	1.58	42	1.10	76	94	61	0	0	3	0
	PENSACOLA	63	42	73	35	53	1	0.50	-0.74	0.31	5.86	82	3.49	109	97	63	0	0	3	0
	TALLAHASSEE	65	36	77	28	51	-1	1.32	0.08	0.99	4.45	60	3.67	112	98	56	0	2	2	1
	TAMPA	72	51	79	47	62	1	1.43	0.94	1.27	3.30	92	2.41	187	92	56	0	0	2	1
	WEST PALM	77	62	81	59	70	4	0.10	-0.79	0.06	3.65	68	0.25	11	95	71	0	0	3	0
GA	ATHENS	56	34	64	27	45	3	1.52	0.45	1.49	4.14	64	2.66	96	89	54	0	3	2	1
	ATLANTA	56	36	64	31	46	4	1.95	0.79	1.87	5.09	75	2.87	98	81	49	0	2	3	1
	AUGUSTA	63	31	76	25	47	2	0.40	-0.62	0.34	3.22	55	2.22	83	92	55	0	5	3	0
	COLUMBUS	61	37	75	30	49	2	1.16	0.09	1.12	4.39	60	2.58	90	94	47	0	2	4	1
	MACON	64	34	76	26	49	4	0.84	-0.30	0.77	3.93	57	2.35	79	96	44	0	2	4	1
	SAVANNAH	64	37	76	28	51	2	0.35	-0.56	0.30	2.76	53	2.25	94	98	56	0	2	3	0
HI	HILO	77	64	79	61	70	-1	6.27	4.02	5.19	20.16	124	6.39	110	90	73	0	0	7	2
	HONOLULU	80	69	83	67	75	2	0.88	0.28	0.52	1.66	37	0.90	54	84	72	0	0	2	1
	KAHULUI	78	65	81	60	72	0	0.48	-0.37	0.28	4.13	77	1.02	44	84	70	0	0	3	0
	LIHUE	78	69	79	63	74	2	0.31	-0.73	0.16	2.03	26	0.53	18	82	73	0	0	2	0
ID	BOISE	35	25	39	20	30	0	0.06	-0.24	0.02	1.61	73	0.46	56	88	68	0	7	3	0
	LEWISTON	40	30	45	26	35	2	0.01	-0.24	0.01	1.34	79	0.70	108	85	74	0	5	1	0
	POCATELLO	25	12	30	8	19	-5	0.19	-0.06	0.09	1.37	77	0.29	43	88	76	0	7	5	0
IL	CHICAGO/O'HARE	32	20	43	11	26	4	0.20	-0.17	0.17	1.21	35	0.22	21	80	64	0	7	2	0
	MOLINE	35	19	49	11	27	6	0.15	-0.18	0.11	1.15	36	0.16	16	84	63	0	7	2	0
	PEORIA	37	23	48	16	30	8	0.00	-0.31	0.00	1.42	43	0.07	8	83	58	0	7	0	0
	ROCKFORD	31	18	44	7	25	6	0.20	-0.10	0.11	1.13	39	0.20	24	83	69	0	7	2	0
	SPRINGFIELD	39	23	46	17	31	6	0.03	-0.31	0.03	2.15	60	0.06	6	84	58	0	7	1	0
IN	EVANSVILLE	44	26	53	19	35	4	0.21	-0.42	0.21	7.66	146	0.50	29	87	59	0	6	1	0
	FORT WAYNE	38	25	50	20	32	9	0.01	-0.43	0.01	2.53	63	0.13	10	83	54	0	6	1	0
	INDIANAPOLIS	41	23	52	19	32	6	1.20	0.65	1.20	4.38	97	1.37	91	87	59	0	6	1	1
	SOUTH BEND	35	24	48	14	29	6	0.10	-0.39	0.05	2.42	54	0.17	12	83	66	0	6	3	0
IA	BURLINGTON	36	22	46	14	29	6	0.03	-0.25	0.02	1.14	39	0.15	19	85	58	0	7	2	0
	CEDAR RAPIDS	33	16	46	6	24	6	0.01	-0.21	0.01	1.05	50	0.01	2	90	58	0	7	1	0
	DES MOINES	36	21	50	12	29	9	0.02	-0.20	0.02	0.68	35	0.02	3	80	61	0	7	1	0
	DUBUQUE	30	17	43	7	23	6	0.01	-0.27	0.01	1.32	54	0.01	1	84	68	0	7	1	0
	SIOUX CITY	36	18	51	5	27	9	0.02	-0.11	0.01	0.48	47	0.03	8	85	63	0	7	2	0
	WATERLOO	33	17	46	3	25	9	0.04	-0.13	0.03	0.92	59	0.04	9	83	66	0	7	2	0
KS	CONCORDIA	41	23	57	19	32	6	0.06	-0.09	0.05	0.13	10	0.06	14	71	53	0	6	2	0
	DODGE CITY	43	20	57	11	32	2	0.00	-0.13	0.00	0.03	3	0.00	0	65	31	0	6	0	0
	GOODLAND	39	15	51	8	27	0	0.00	-0.09	0.00	0.66	97	0.03	11	75	39	0	7	0	0
	TOPEKA	42	22	57	17	32	5	0.14	-0.05	0.12	0.30	15	0.17	30	77	52	0	7	2	0

Based on1971-2000 normals ***** Not Available**

Weather Data for the Week Ending January 19, 2002

STATES AND STATIONS		TEMPERATURE EF						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																	TEMP. EF		PRECIP	
		AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Dec 1	PCT. NORMAL SINCE Dec 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
	WICHITA	46	24	61	18	35	5	0.02	-0.16	0.02	0.10	5	0.02	4	74	49	0	7	1	0
KY	JACKSON	44	29	52	25	37	3	0.94	0.17	0.74	4.50	70	1.95	91	85	39	0	6	3	1
	LEXINGTON	44	26	52	20	35	3	0.42	-0.31	0.37	3.76	61	0.87	42	83	56	0	6	3	0
	LOUISVILLE	47	29	54	24	38	5	0.37	-0.35	0.37	5.18	91	0.71	36	89	54	0	6	1	0
	PADUCAH	45	26	52	15	36	4	0.60	-0.14	0.29	9.59	151	0.92	46	93	51	0	7	3	0
LA	BATON ROUGE	67	38	74	30	53	3	0.79	-0.62	0.78	6.93	78	2.68	73	97	49	0	2	2	1
	LAKE CHARLES	66	41	72	34	53	2	1.33	0.03	1.25	7.97	100	2.78	82	95	56	0	0	2	1
	NEW ORLEANS	66	42	78	33	54	2	0.46	-0.86	0.26	5.85	70	2.95	89	95	67	0	0	2	0
	SHREVEPORT	59	35	69	29	47	1	0.44	-0.58	0.36	7.59	104	1.49	55	90	54	0	3	2	0
ME	CARIBOU	20	6	29	-3	13	4	0.56	-0.11	0.44	1.81	36	0.82	44	91	76	0	7	4	0
	PORTLAND	34	21	43	9	27	6	1.31	0.38	1.04	3.57	53	1.54	61	89	64	0	7	4	1
MD	BALTIMORE	46	28	53	25	37	5	0.41	-0.37	0.41	3.55	65	1.82	85	77	48	0	6	1	0
MA	BOSTON	38	30	45	25	34	5	1.25	0.37	0.83	4.88	80	2.06	87	86	52	0	5	4	1
	WORCESTER	32	24	38	16	28	5	0.84	-0.09	0.53	4.22	67	1.45	58	89	56	0	7	4	1
MI	ALPENA	28	7	33	-9	18	0	0.34	-0.05	0.20	1.86	63	0.40	36	93	69	0	7	4	0
	GRAND RAPIDS	34	23	44	10	28	6	0.34	-0.10	0.19	2.74	70	0.37	31	92	71	0	7	3	0
	HOUGHTON LAKE	28	14	32	0	21	3	0.21	-0.15	0.11	0.82	30	0.23	24	89	75	0	7	3	0
	LANSING	34	22	45	7	28	7	0.25	-0.09	0.11	1.44	46	0.31	33	87	71	0	7	3	0
	MUSKEGON	34	25	43	6	29	6	0.42	-0.08	0.22	1.87	47	0.45	33	81	66	0	6	3	0
	TRAVERSE CITY	28	17	31	6	22	1	0.21	-0.48	0.14	2.79	62	0.61	34	98	69	0	7	5	0
MN	DULUTH	21	7	31	-14	14	6	0.04	-0.22	0.04	0.59	38	0.04	7	91	77	0	7	1	0
	INT'L FALLS	19	-2	28	-21	9	7	0.01	-0.18	0.01	0.30	26	0.03	7	87	72	0	7	1	0
	MINNEAPOLIS	25	15	36	-2	20	7	0.42	0.20	0.20	1.16	73	0.42	71	86	73	0	7	4	0
	ROCHESTER	25	11	40	-8	18	7	0.03	-0.18	0.03	1.42	92	0.03	6	89	78	0	7	1	0
	ST. CLOUD	25	11	33	-9	18	10	0.07	-0.10	0.07	0.25	22	0.09	21	89	71	0	7	1	0
MS	JACKSON	61	34	70	28	48	3	1.97	0.67	1.75	7.44	85	3.37	97	96	55	0	3	2	1
	MERIDIAN	61	33	68	26	47	1	0.29	-1.06	0.18	6.77	76	1.48	42	99	70	0	4	2	0
	TUPELO	56	35	64	28	45	5	1.81	0.67	1.56	9.21	98	2.66	82	90	59	0	2	3	1
MO	COLUMBIA	43	24	55	17	33	5	0.19	-0.17	0.11	1.66	48	0.21	21	83	55	0	6	2	0
	KANSAS CITY	41	23	54	20	32	5	0.12	-0.13	0.08	0.89	38	0.14	20	78	52	0	7	2	0
	SAINT LOUIS	43	29	52	25	36	7	0.18	-0.29	0.12	3.77	91	0.31	24	74	52	0	6	2	0
	SPRINGFIELD	44	20	57	14	32	1	0.29	-0.16	0.26	3.91	89	0.39	32	84	54	0	7	3	0
MT	BILLINGS	31	19	42	15	25	1	0.02	-0.16	0.02	0.28	24	0.11	23	78	49	0	7	1	0
	BUTTE	25	11	32	6	18	0	0.00	-0.11	0.00	0.50	60	0.42	140	84	52	0	7	0	0
	GLASGOW	27	14	37	1	21	11	0.24	0.18	0.16	0.32	56	0.31	155	84	71	0	7	2	0
	GREAT FALLS	30	16	41	8	23	2	0.08	-0.06	0.06	0.49	45	0.10	23	90	59	0	7	2	0
	HAVRE	30	15	39	6	23	9	0.02	-0.07	0.01	0.21	27	0.20	74	80	68	0	7	2	0
	KALISPELL	29	16	38	-2	22	1	0.09	-0.23	0.05	0.82	32	0.32	36	83	75	0	7	2	0
	MISSOULA	32	23	39	17	27	3	0.01	-0.21	0.01	1.25	69	0.13	20	82	65	0	7	1	0
NE	GRAND ISLAND	39	15	56	7	27	5	0.02	-0.09	0.01	0.16	17	0.02	7	88	53	0	6	2	0
	LINCOLN	39	18	56	6	28	6	0.09	-0.06	0.04	0.43	33	0.09	21	83	54	0	6	4	0
	NORFOLK	37	15	53	4	26	6	0.00	-0.11	0.00	0.06	6	0.00	0	86	59	0	7	0	0
	NORTH PLATTE	37	9	49	0	23	0	0.00	-0.08	0.00	0.07	11	0.00	0	93	42	0	7	0	0
	OMAHA	38	22	56	10	30	9	0.05	-0.12	0.03	0.72	53	0.05	11	81	55	0	6	2	0
	SCOTTSBLUFF	37	11	47	4	24	0	0.00	-0.11	0.00	0.05	6	0.05	17	79	44	0	7	0	0
	VALENTINE	33	11	45	1	22	1	0.01	-0.05	0.01	0.01	2	0.01	7	88	62	0	7	1	0
NV	ELY	34	7	45	1	20	-5	0.00	-0.17	0.00	0.10	11	0.00	0	80	54	0	7	0	0
	LAS VEGAS	55	33	64	28	44	-3	0.00	-0.11	0.00	0.11	16	0.00	0	34	25	0	4	0	0
	RENO	42	20	54	16	31	-2	0.00	-0.22	0.00	2.20	152	0.40	70	79	60	0	7	0	0
	WINNEMUCCA	36	16	42	8	26	-4	0.07	-0.11	0.07	1.15	87	0.84	165	82	64	0	7	1	0
NH	CONCORD	32	19	37	5	26	6	0.70	0.04	0.55	3.23	68	0.99	55	91	61	0	7	4	1
NJ	NEWARK	44	32	51	26	38	7	0.25	-0.68	0.24	3.32	55	1.31	53	64	40	0	3	2	0
NM	ALBUQUERQUE	48	28	54	19	38	3	0.00	-0.10	0.00	0.28	36	0.04	14	62	27	0	5	0	0
NY	ALBANY	36	25	42	17	30	8	0.12	-0.43	0.08	2.98	71	1.03	69	86	56	0	7	3	0
	BINGHAMTON	31	21	36	13	26	4	0.37	-0.19	0.25	3.24	71	0.95	63	85	68	0	7	4	0
	BUFFALO	34	22	41	14	28	4	0.58	-0.12	0.33	7.48	130	1.00	51	89	65	0	7	4	0
	ROCHESTER	35	24	40	15	30	6	0.15	-0.37	0.10	2.35	57	0.63	44	82	64	0	7	3	0
	SYRACUSE	36	25	41	18	31	9	0.49	-0.09	0.22	3.18	68	0.99	63	84	63	0	7	5	0
NC	ASHEVILLE	50	29	58	21	39	4	1.18	0.26	1.18	4.34	75	2.00	84	82	55	0	5	1	1
	CHARLOTTE	54	31	62	26	43	2	1.46	0.55	1.46	4.37	78	2.41	100	91	39	0	5	1	1
	GREENSBORO	51	29	59	23	40	3	1.26	0.46	1.12	4.32	83	2.10	99	80	33	0	6	2	1
	HATTERAS	56	41	62	29	49	3	0.32	-1.05	0.20	4.69	57	2.29	63	95	58	0	1	2	0
	RALEIGH	53	30	63	26	42	3	2.05	1.12	2.05	5.72	105	3.69	153	84	47	0	6	1	1
	WILMINGTON	61	36	70	30	49	3	0.47	-0.58	0.29	2.82	43	1.51	55	97	46	0	3	4	0
ND	BISMARCK	24	7	37	-12	15	5	0.13	0.05	0.12	0.34	52	0.21	95	85	76	0	7	2	0
	DICKINSON	25	5	38	-10	15	1	0.00	-0.06	0.00	0.13	26	0.01	6	93	68	0	7	0	0
	FARGO	24	7	37	-8	16	10	0.00	-0.17	0.00	0.22	22	0.00	0	86	69	0	7	0	0
	GRAND FORKS	23	5	32	-10	14	9	0.00	-0.14	0.00	0.28	30	0.00	0	88	67	0	7	0	0
	JAMESTOWN	25	8	36	-6	16	8	0.00	-0.14	0.00	0.07	9	0.00	0	92	70	0	7	0	0
	WILLISTON	24	9	35	-5	17	10	0.13	0.02	0.11	1.19	137	0.63	210	86	74	0	7	2	0
OH	AKRON-CANTON	36	24	45	16	30	5	0.18	-0.37	0.08	1.71	38	0.64	42	80	62	0	7	4	0
	CINCINNATI	43	24	52	20	34	5	0.08	-0.56	0.08	4.43	87	0.35	20	79	57	0	6	1	0
	CLEVELAND	37	26	45	21	32	6	0.13	-0.42	0.06	3.17	68	0.64	43	82	60	0	7	3	0
	COLUMBUS	40	28	50	21	34	6	0.09	-0.46	0.05	3.47	78	0.46	31	78	61	0	5	2	0
	DAYTON	39	24	50	17	32	6	0.08	-0.49	0.04	3.97	85	0.31	19	82	57	0	6	2	0
	MANSFIELD	36	25	45	17	30	6	0.04	-0.54	0.04	2.77	57	0.25	16	90	60	0	6	1	0

Based on1971-2000 normals ***** Not Available**

Weather Data for the Week Ending January 19, 2002

STATES AND STATIONS		TEMPERATURE EF						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																	TEMP. EF		PRECIP	
		AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Dec 1	PCT. NORMAL SINCE Dec 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
	TOLEDO	38	26	49	19	32	8	0.10	-0.31	0.05	2.31	61	0.30	26	80	61	0	6	2	0
	YOUNGSTOWN	36	23	45	15	29	4	0.47	-0.05	0.34	3.19	73	1.16	81	80	64	0	7	6	0
OK	OKLAHOMA CITY	49	29	59	24	39	3	0.09	-0.17	0.09	1.16	43	0.25	30	80	44	0	6	1	0
	TULSA	49	27	60	17	38	2	0.08	-0.26	0.08	2.43	71	0.18	19	77	45	0	5	1	0
OR	ASTORIA	46	34	47	27	40	-2	0.96	-1.22	0.39	18.51	114	6.68	114	95	89	0	3	6	0
	BURNS	29	12	33	4	21	-3	0.00	-0.25	0.00	1.89	95	0.84	120	88	77	0	7	0	0
	EUGENE	43	34	46	27	39	-1	0.42	-1.30	0.16	9.76	76	3.05	66	94	89	0	2	4	0
	MEDFORD	42	29	47	22	36	-3	0.26	-0.29	0.08	5.69	129	1.35	90	95	75	0	7	4	0
	PENDLETON	39	27	44	21	33	-1	0.19	-0.13	0.12	1.11	48	0.41	49	91	78	0	6	3	0
	PORTLAND	43	35	47	26	39	-1	0.39	-0.74	0.16	10.59	120	3.97	129	97	91	0	1	3	0
	SALEM	43	33	47	28	38	-2	0.34	-0.96	0.13	11.75	118	3.72	106	96	87	0	3	4	0
PA	ALLENTOWN	41	25	48	20	33	6	0.21	-0.59	0.20	3.05	55	1.13	53	83	50	0	7	2	0
	ERIE	35	26	44	18	31	4	0.15	-0.39	0.08	5.36	101	0.91	58	88	69	0	7	4	0
	MIDDLETOWN	42	25	49	20	34	6	0.42	-0.20	0.42	3.40	69	1.53	92	88	51	0	7	1	0
	PHILADELPHIA	44	32	52	27	38	6	0.42	-0.38	0.42	3.89	71	1.78	82	83	50	0	4	1	0
	PITTSBURGH	39	27	50	22	33	6	0.11	-0.50	0.08	3.04	68	0.61	37	78	52	0	7	3	0
	WILKES-BARRE	36	25	42	15	31	5	0.19	-0.36	0.19	2.43	61	1.32	92	81	53	0	7	1	0
	WILLIAMSPORT	38	28	44	18	33	8	0.18	-0.46	0.18	2.70	59	1.12	68	74	50	0	6	1	0
RI	PROVIDENCE	38	28	43	22	33	4	1.36	0.37	0.87	4.70	69	2.24	84	86	58	0	6	5	1
SC	BEAUFORT	62	39	70	32	50	2	0.35	-0.59	0.33	3.03	54	1.73	70	99	51	0	1	2	0
	CHARLESTON	63	37	72	32	50	2	0.68	-0.26	0.51	4.26	74	2.53	101	96	48	0	1	3	1
	COLUMBIA	60	34	70	27	47	3	0.39	-0.68	0.38	3.15	51	1.95	70	91	53	0	4	2	0
	GREENVILLE	53	32	64	26	43	2	1.64	0.65	1.64	4.77	73	2.54	95	83	43	0	4	1	1
SD	ABERDEEN	25	8	34	-10	17	7	0.25	0.15	0.24	0.32	48	0.26	90	89	73	0	7	2	0
	HURON	29	12	36	-4	21	7	0.82	0.71	0.79	0.88	133	0.82	304	90	69	0	7	3	1
	RAPID CITY	32	7	43	0	20	-2	0.02	-0.04	0.01	0.05	8	0.05	25	82	54	0	7	2	0
	SIOUX FALLS	31	14	39	-2	22	8	0.09	-0.02	0.05	0.20	25	0.09	32	86	64	0	7	2	0
TN	BRISTOL	49	24	54	18	37	3	1.35	0.56	1.16	5.02	91	1.60	76	92	46	0	7	2	1
	CHATTANOOGA	54	31	57	27	43	4	2.02	0.78	1.90	7.46	93	2.38	73	86	53	0	5	2	1
	KNOXVILLE	49	30	58	25	40	3	2.41	1.37	2.12	7.45	102	2.79	99	84	50	0	5	3	1
	MEMPHIS	52	35	58	29	43	4	0.80	-0.11	0.39	11.87	144	1.69	66	79	45	0	1	3	0
	NASHVILLE	50	30	59	25	40	4	1.13	0.25	0.83	4.92	70	1.60	66	88	45	0	5	3	1
TX	ABILENE	59	33	71	27	46	3	0.00	-0.19	0.00	1.12	60	0.14	24	64	45	0	3	0	0
	AMARILLO	53	27	63	20	40	5	0.00	-0.13	0.00	0.31	31	0.08	21	66	30	0	6	0	0
	AUSTIN	64	34	72	24	49	-1	0.03	-0.37	0.02	6.12	169	1.49	125	96	57	0	4	2	0
	BEAUMONT	67	44	74	35	56	4	0.92	-0.39	0.91	5.20	59	2.90	81	99	53	0	0	2	1
	BROWNSVILLE	78	55	84	43	67	8	0.02	-0.28	0.01	1.14	63	0.12	17	92	55	0	0	2	0
	CORPUS CHRISTI	74	50	82	38	62	6	0.00	-0.33	0.00	1.96	73	0.30	32	96	64	0	0	0	0
	DEL RIO	68	44	73	30	56	5	0.02	-0.08	0.01	0.37	37	0.02	8	84	63	0	1	2	0
	EL PASO	64	38	69	28	51	6	0.00	-0.08	0.00	0.14	13	0.00	0	41	16	0	1	0	0
	FORT WORTH	58	36	70	32	47	3	0.04	-0.35	0.04	3.42	90	0.18	15	82	44	0	2	1	0
	GALVESTON	65	51	70	45	58	2	0.04	-0.90	0.03	4.67	78	2.17	88	95	68	0	0	2	0
	HOUSTON	68	41	75	32	55	3	0.12	-0.71	0.09	7.13	120	0.96	43	97	61	0	1	2	0
	LUBBOCK	55	28	65	21	42	4	0.00	-0.08	0.00	0.15	16	0.02	8	67	35	0	6	0	0
	MIDLAND	61	35	73	28	48	5	0.00	-0.11	0.00	0.14	15	0.04	13	62	37	0	2	0	0
	SAN ANGELO	62	36	73	29	49	4	0.00	-0.16	0.00	0.32	23	0.18	42	63	41	0	3	0	0
	SAN ANTONIO	67	42	74	32	55	5	0.00	-0.36	0.00	3.71	125	0.28	28	91	44	0	1	0	0
	VICTORIA	71	44	79	35	58	5	0.02	-0.53	0.01	4.01	101	0.49	33	96	58	0	0	2	0
	WACO	61	34	71	25	48	2	0.06	-0.33	0.05	4.22	108	0.19	17	77	49	0	4	2	0
	WICHITA FALLS	55	32	66	26	43	3	0.02	-0.20	0.02	1.78	75	0.68	100	72	43	0	4	1	0
UT	SALT LAKE CITY	30	16	37	8	23	-6	0.15	-0.15	0.09	1.98	98	0.54	68	88	66	0	7	2	0
VT	BURLINGTON	31	16	37	2	24	6	0.33	-0.17	0.18	1.99	56	0.50	38	91	62	0	7	6	0
VA	LYNCHBURG	48	25	57	22	37	3	0.83	0.03	0.80	4.72	88	1.54	72	78	36	0	7	2	1
	NORFOLK	52	35	59	29	44	4	1.71	0.80	1.48	5.11	95	3.28	138	89	43	0	1	4	1
	RICHMOND	51	31	58	24	41	5	0.90	0.09	0.86	4.22	79	2.55	115	84	50	0	5	2	1
	ROANOKE	48	30	58	26	39	4	0.79	0.06	0.79	3.57	75	1.09	57	66	43	0	6	1	1
	WASH/DULLES	46	29	56	25	38	6	0.27	-0.42	0.27	2.13	43	0.54	29	72	42	0	5	1	0
WA	OLYMPIA	41	30	46	24	36	-2	0.41	-1.29	0.19	17.48	141	5.53	122	96	89	0	4	5	0
	QUILLAYUTE	44	33	45	25	38	-3	1.67	-1.39	0.90	25.60	113	9.74	118	98	94	0	3	6	2
	SEATTLE-TACOMA	41	34	43	30	38	-3	0.27	-0.89	0.15	9.66	111	3.77	122	95	84	0	1	2	0
	SPOKANE	32	20	37	12	26	-1	0.25	-0.14	0.16	3.11	93	1.08	98	95	79	0	7	3	0
	YAKIMA	43	22	48	18	32	3	0.00	-0.25	0.00	1.48	71	0.36	51	89	73	0	7	0	0
WV	BECKLEY	41	25	51	19	33	3	0.48	-0.24	0.40	3.48	69	1.07	55	75	52	0	6	3	0
	CHARLESTON	44	28	53	24	36	3	0.71	-0.01	0.62	4.71	90	2.24	116	92	50	0	7	2	1
	ELKINS	41	23	52	16	32	4	0.69	-0.08	0.60	3.95	72	1.66	80	86	46	0	7	5	1
	HUNTINGTON	44	27	53	21	36	4	0.78	0.06	0.68	3.89	73	1.64	85	90	51	0	6	4	1
WI	EAU CLAIRE	24	9	34	-7	17	6	0.33	0.10	0.24	1.28	80	0.33	57	93	66	0	7	3	0
	GREEN BAY	27	10	33	-6	18	3	0.32	0.04	0.24	1.60	76	0.37	53	92	77	0	7	4	0
	LA CROSSE	28	14	41	1	21	5	0.16	-0.10	0.08	0.99	52	0.16	24	89	62	0	7	3	0
	MADISON	28	16	37	1	22	5	0.40	0.14	0.21	1.53	65	0.40	57	87	72	0	7	4	0
	MILWAUKEE	31	20	41	7	25	5	0.41	0.01	0.22	1.27	39	0.41	39	84	69	0	6	3	0
WY	CASPER	27	8	37	1	17	-5	0.00	-0.11	0.00	0.14	15	0.01	3	78	58	0	7	0	0
	CHEYENNE	30	10	41	6	20	-6	0.00	-0.08	0.00	0.18	26	0.05	23	66	44	0	7	0	0
	LANDER	27	9	37	2	18	-2	0.00	-0.11	0.00	0.18	20	0.01	3	79	56	0	7	0	0
	SHERIDAN	31	12	43	5	21	0	0.01	-0.16	0.01	0.05	4	0.01	2	77	63	0	7	1	0

Based on1971-2000 normals ***** Not Available**

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

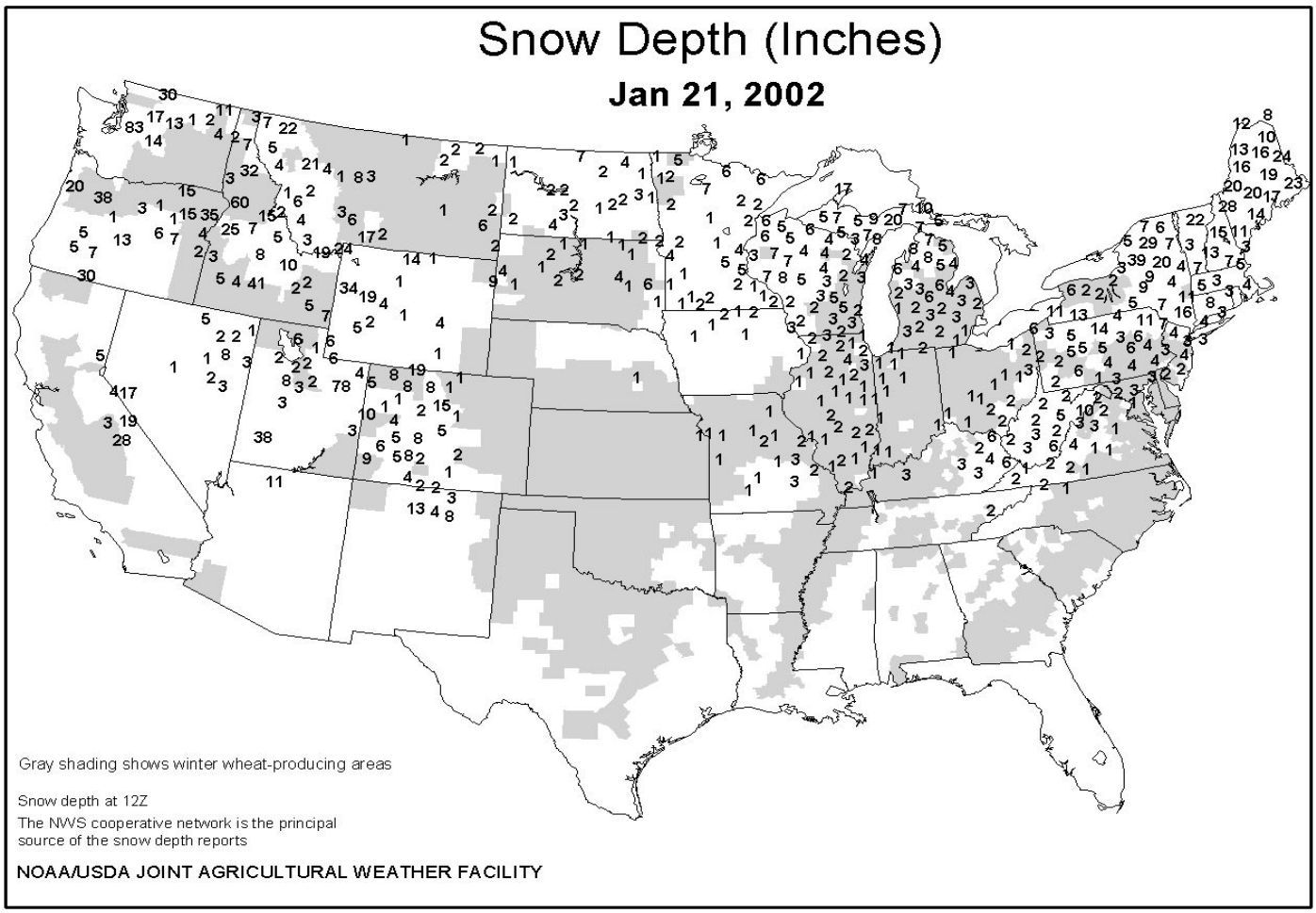
National Agricultural Summary

January 14 - 20, 2002

Weekly National Agricultural Summary provided by USDA/NASS

HIGHLIGHTS

A winter storm developed over the lower Mississippi River Valley, moved eastward over the interior Southeast, then tracked northward through the Appalachians and Atlantic Coast States. The storm delivered much-needed moisture, mostly in the form of snow, to winter crops on the Atlantic Coastal Plain. The cold weather also provided beneficial chill hours for peach and citrus orchards throughout the Southeast. Temperatures were not cold enough to damage trees or unharvested fruit in Florida's citrus region, but the wet weather temporarily halted field and orchard work in most areas of the State. In southern areas of the Florida peninsula, the sugarcane harvest and work in vegetable fields continued with little delay. Meanwhile, the Corn Belt and Great Plains remained mostly dry, with above-normal temperatures prevailing most of the week. In Texas, dry weather supported fieldwork but hindered development of winter wheat and forage crops across most of the State. Cool weather slowed growth of winter crops in California, but nighttime temperatures did not remain below freezing long enough to damage citrus trees and unharvested fruit. Abundant moisture supported growth of winter crops during the warmer daytime hours. Vegetable growers ran irrigation systems to protect delicate leafy crops from sub-freezing overnight lows.



International Weather and Crop Summary

January 13 - 19, 2002

International Weather and Crop Highlights and Summaries provided by USDA/WAOB

HIGHLIGHTS

EUROPE: Dry weather persisted in northern Italy, increasing concerns about developing drought.

FSU-WESTERN: Unseasonably mild weather provided favorable overwintering conditions for winter grains in Russia.

MIDDLE EAST: Cool, dry weather dominated the region, with snow cover offering some protection from the bitter cold.

NORTHWESTERN AFRICA: Warm, dry weather persisted in Morocco, limiting soil moisture for winter grains, while light showers eased dryness in Algeria and Tunisia.

SOUTH AFRICA: Light showers and favorable temperatures spurred development of corn and other summer crops.

SOUTHEAST ASIA: A weak tropical storm brought showers to eastern Luzon, Philippines, increasing moisture for winter crops.

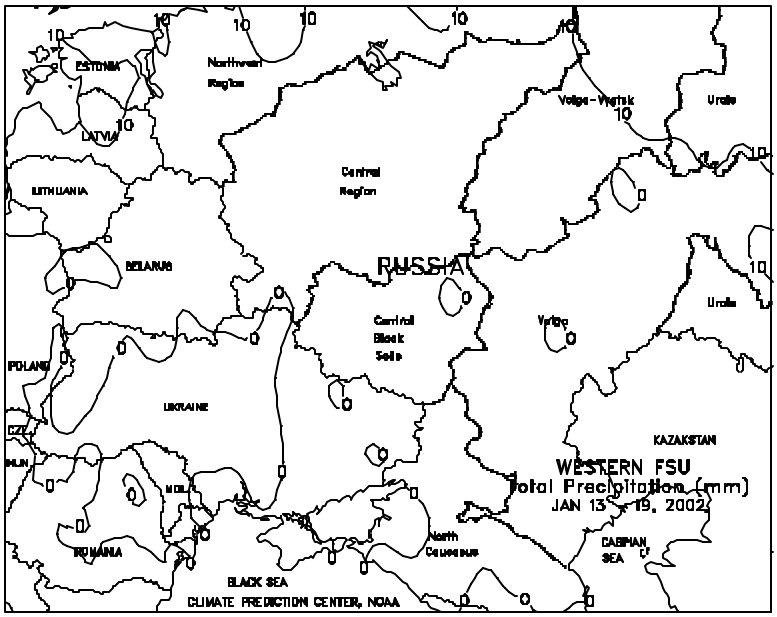
EASTERN ASIA: Across the North China Plain, seasonably cooler weather helped winter wheat regain some winter hardiness, while rain increased moisture supplies for dormant to semi-dormant winter crops in central China.

SOUTH AMERICA: In southern Brazil, a developing drought in Rio Grande do Sul stressed reproductive soybeans and corn, but elsewhere, soil moisture remained adequate to abundant for summer crops. In central Argentina, rain boosted soil moisture for developing summer crops, but more widespread rain is still needed.

AUSTRALIA: Mostly dry, warm weather aided eastern summer crop growth, while showers improved grazing conditions in the west.

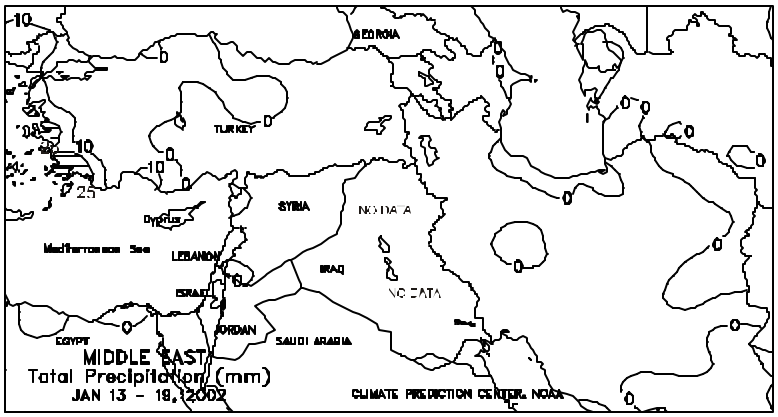
EUROPE

In England, France, the Benelux countries, and the Iberian peninsula, unseasonably mild (temperatures averaging 1-3 degrees C above normal) and showery (3-20 mm) weather favored dormant and semi-dormant winter grains and oilseeds. Similarly, unseasonably mild (temperatures averaging 1-3 degrees C above normal), although drier (1-10 mm), weather in northern Germany, northern Poland, and southern Scandinavia maintained favorable overwintering conditions for dormant winter grains. In contrast, dry weather persisted in northern Italy, increasing concerns about falling reservoir levels and developing drought. Nevertheless, the dryness this winter has likely had little impact on dormant winter grains, and significant spring planting is not expected for another 2 months, leaving plenty of time for rainfall to return to the area. In southern Italy, scattered showers (2-50 mm) maintained moisture supplies for durum wheat, but unseasonably cool (temperatures averaging 2-5 degrees C below normal) weather allowed little if any crop development. Widespread precipitation (5-25 mm or more) overspread the southern and western Balkans as well, boosting moisture supplies. Elsewhere in central and eastern Europe, unseasonably cold (temperatures averaging 1-4 degrees C below normal), mostly dry (less than 5 mm) weather prevailed. Although the cold weather prevented rapid snow melt, some ground areas were exposed in parts of western Poland and western Hungary, leaving dormant winter grains vulnerable to potentially cold weather. The snow pack remained mostly intact in southern Germany and the remainder of eastern Europe.



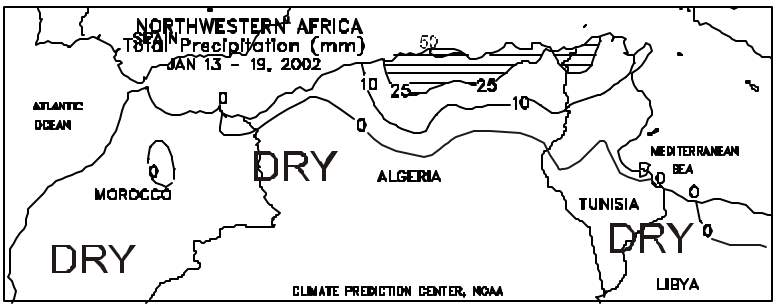
FSU-WESTERN

Unseasonably mild weather prevailed over winter grain areas in most of Russia, eastern Ukraine, and the Baltics, providing favorable overwintering conditions for crops. Weekly temperatures in these areas averaged 2 to 9 degrees C above normal. Elsewhere, cold weather remained over western Ukraine and western Belarus, where weekly temperatures averaged 1 to 5 degrees C below normal. Extreme minimum temperatures in these areas ranged from -17 to -10 degrees C, remaining above the threshold for potential winterkill. Mostly dry weather prevailed across the region, with winter grain areas in portions of the Baltics, northern Belarus, and Russia receiving a light dusting of snow (1-4 mm of liquid equivalent). Snow cover remained moderate to deep over most winter grain areas, except in the southern and eastern Ukraine, where snow cover remained thin or patchy.



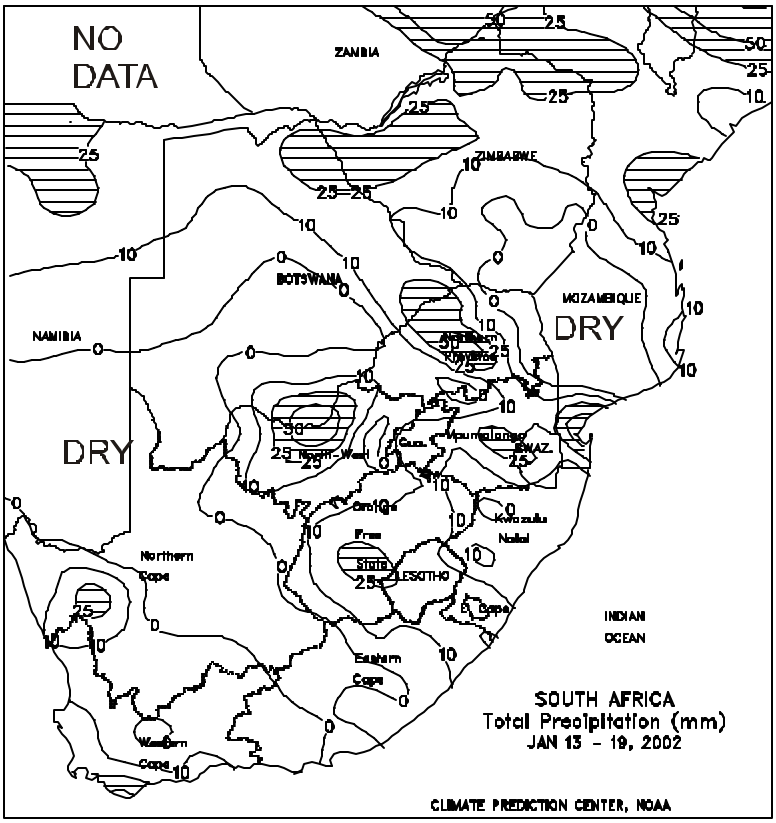
MIDDLE EAST

Cool, dry weather dominated the region. In Turkey, the continuing dryness brought additional relief from flooding that had affected much of the southwest earlier in the month. However, showers (10-25 mm or more) returnedto the west coast by week's end and were approaching previously flooded sections of the southern coast. Temperatures fell below -15 degrees C in winter wheat areas of central Turkey and western Iran, but snow cover provided some protection from the bitter cold.



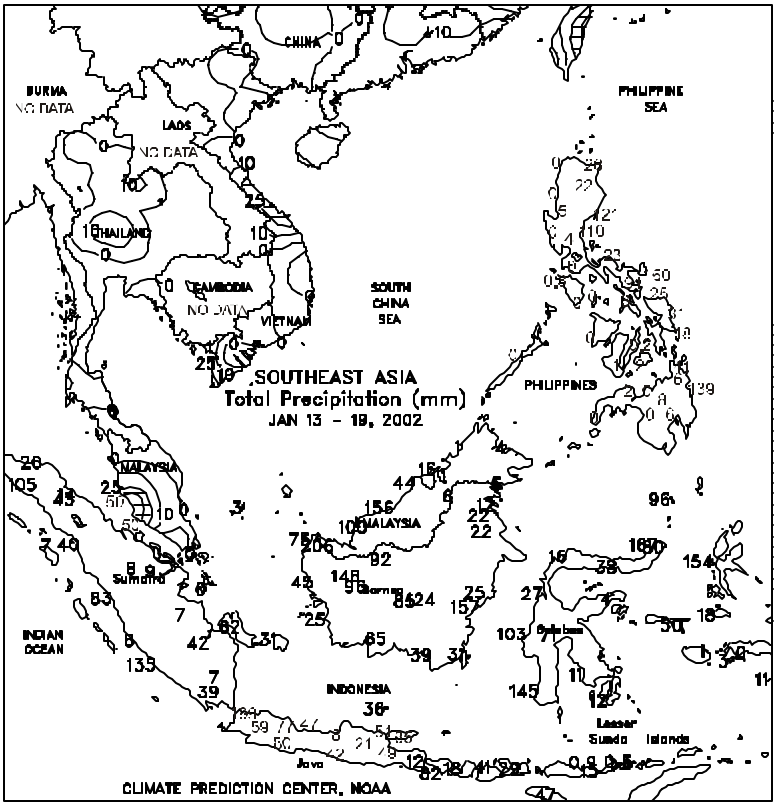
NORTHWESTERN AFRICA

Warm, dry weather persisted throughout Morocco, limiting soil moisturefor vegetative winter grains. Light showers (10-25 mm) helped to ease dryness for winter grains in Algeria and Tunisia. Rainfall over the last 4 weeks continued to be less than 50 percent of normal throughout Algeria and Tunisia, while little if any rain has fallen in Morocco. Rain is needed throughout the region to prevent declining crop prospects.



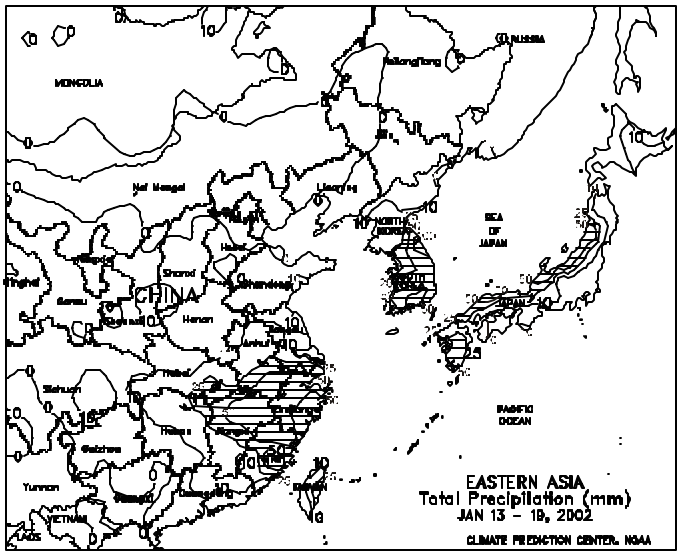
SOUTH AFRICA

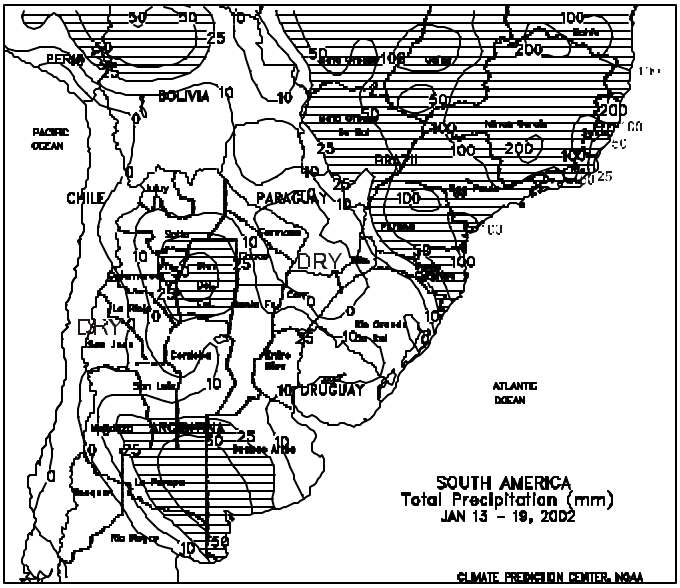
Scattered, mostly light showers (less than 25 mm in most areas) continued across the corn belt. However, temperatures were generally favorable for crop development (highs ranging in the upper 20s and lower 30s degrees C), limiting moisture losses and the potential for stress. Although well-watered from heavy rainfall early in the growing season, corn and other summer crops are entering reproductive phases of development, and will soon require a return to a more seasonable rainfall pattern. Elsewhere, dry, seasonably warm weather dominated crop areas of Eastern Cape and KwaZulu-Natal. Cool, showery weather (temperatures averaging 2-3 degrees C below normal; precipitation of 5-25 mm or more) covered Western Cape, reducing irrigation requirements but possibly exposing fruit and vegetables to conditions favorable for disease inoculation.

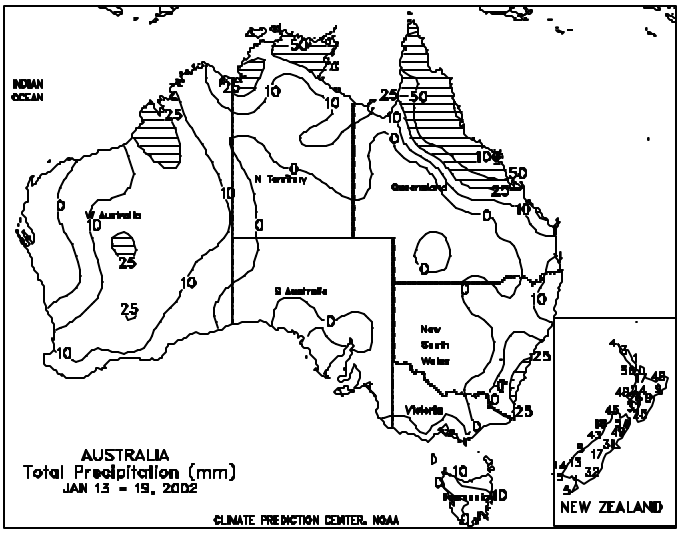


SOUTHEAST ASIA

A weak tropical storm brushed the east coast of Luzon, Philippines, bringing variable showers (10-100 mm, with the heaviest amounts along the coast) to winter crops. Heavy showers (50-100 mm) fell throughout Java, Indonesia, increasing moisture supplies for main-season rice. Generally dry weather in peninsular Malaysia reduced moisture for oil palm. Mostly dry weather continued to favor rice fieldwork in most of Indochina.







EASTERN ASIA

Across the North China Plain, seasonably cooler weather helped winter wheat regain some winter hardiness. In this region, temperatures averaged 2 to 4 degrees C above normal, with highs reaching only the lower teens degrees C. Light snow and rain (less than 5 mm of water equivalent) fell across Henan and Shandong, and moderate rain (10-25 mm) increased moisture supplies in northern Anhui and Jiangsu. Across the lower Yangtze Valley and southeastern China, rain (10-50 mm or more) increased moisture supplies for dormant to semi-dormant winter crops. Heavier rain (50-90mm) was concentrated in Zhejiang, northern Fujian, northern Jiangxi, and southern Anhui. Across southern China, temperatures averaged 5 to 7 degrees C above normal, with highs reaching the middle 20s degrees C, spurring winter crop development.

SOUTH AMERICA

In Rio Grande do Sul, Brazil, rainfall has averaged about 25 percent of normal during the past 4 weeks, causing short-term drought to develop. The dryness has stressed reproductive soybeans and corn and extended into southern Paraguay. Typically, Rio Grande do Sul accounted for about 18 percent of national soybean production and 10 percent of national corn production. However, the corn and soybean area has shifted northward in recent years, lessening the potential impact of the southern drought on national production. Elsewhere across southern Brazil, widespread showers (25-100 mm) maintained adequate to abundant soil moisture for summer crops. Excessive showers (150-250 mm or more) possibly caused flooding across portions of Minas Gerais and western Bahia. Unseasonably heavy rain (50-130 mm) continued to fall across the interior of northeastern Brazil (southern Ceara, eastern Piaui, western Pernambuco, and western Paraiba), causing disruptions to fieldwork, but boosting moisture and reservoirs. In central Argentina, moderate rain (25-90 mm) covered eastern La Pampa and western Buenos Aires, boosting soil moisture for vegetative to reproductive summer crops. Elsewhere, mostly light rain (5-20 mm) kept topsoils moist, but more rain is needed to maintain adequate soil moisture for crop development. In northern Argentina, dry weather during the past few weeks has reduced moisture supplies for cotton development. Across Argentina and southern Brazil, temperatures averaged 1 to 3 degrees C below normal, reducing crop water use.

AUSTRALIA

Mostly dry weather and summer warmth (highs in the low to middle 30s degrees C) spurred cotton and sorghum development in southern Queensland and northern New South Wales. Along the coast, scattered showers (5-25 mm) boosted moisture reserves in sugarcane plantations of New South Wales and southern Queensland, but heavier rain (50-100 mm or more) fell in Queensland' s northern growing areas. Dry weather aided summer fieldwork elsewhere in the east, with temperatures averaging near to slightly below normal. In Western Australia, unseasonably heavy showers (10-25 mm) improved conditions for pastures and grazing but came after the bulk of winter grains and oilseeds were harvested. Moderate to heavy rain (10-50 mm) continued throughout most of New Zealand, increasing moisture levels for small grains and pastures.

The *Weekly Weather and Crop Bulletin* (ISSN 0043-1974) is published weekly and jointly prepared by the U.S. Department of Commerce, National Oceanic and Atmospheric Administration (NOAA) and the U.S. Department of Agriculture (USDA). Publication began in 1872 as the *Weekly Weather Chronicle*. It is issued under general authority of the Act of January 12, 1895 (44-USC 213), 53rd Congress, 3rd Session. NOAA is responsible for managing, printing, and distributing the bulletin. The contents may be reprinted freely, with proper credit.

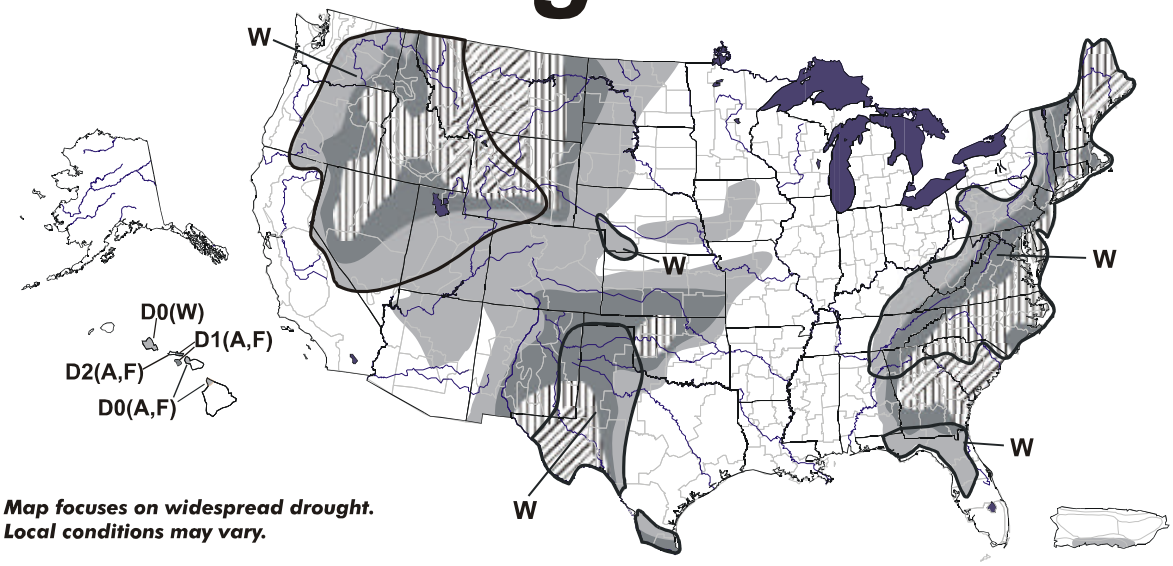
Annual subscriptions: domestic first class **$45**, foreign **$55** (in U.S. funds by international money order or check drawn on U.S. bank) payable to **U.S. Department of Commerce, NOAA**. POSTMASTER: Send address changes to: **Climate Prediction Center, W/NP52, Attn: *Weekly Weather and Crop Bulletin*, Room 605, WWBG, 5200 Auth Road, Camp Springs, MD 20746-4304**. Order subscriptions from the office and address listed above. First-class postage paid at Washington, DC, and other mailing offices. Correspondence to the meteorologists should be directed to: **Weekly Weather and Crop Bulletin, NOAA/USDA, Joint Agricultural Weather Facility, USDA South Building, Room 5844, Washington, DC 20250.** Internet URL: **http://www.usda.gov/oce/waob/jawf**; E-mail address: ***bmorris@oce.usda.gov***

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Weather Service/Climate Prediction Center
Managing Editor . . . . . ***David Miskus*** *(202) 720-7919*
Meteorologists . . . . . ***Eric Luebehusen, Brad Pugh,***
. . . . . and ***Chester Schmitt***
Subscriptions . . . . ***John Kopman*** (301) 763-8000 ext 7534
. . . . . **fax:** (301) 763-8125

U.S. DEPARTMENT OF AGRICULTURE
Economic Research Service
E.R.S. Editor . . . . . ***Sharon Lee***
National Agricultural Statistics Service
Agricultural Statistician . . . . . ***Mark Miller*** (202) 720-7621
State Summaries Editor . ***Delores Thomas*** (202) 720-8033
World Agricultural Outlook Board
International Editor . . . . . ***Tom Puterbaugh***
U.S. Editor . . . . . ***Brad Rippey*** (202) 720-2397
Agricultural Weather Analysts . . . . . ***Mark Brusberg***
. . . . . ***Bob Stefanski, Brian Morris,*** and ***Harlan Shannon***
Stoneville . . . . . ***Lee Crowley*** and ***Josh Stewart***

January 15, 2002 Valid 8 a.m. EST

U.S. Drought Monitor



Map focuses on widespread drought. Local conditions may vary.

D0 Abnormally Dry
D1 Drought-First Stage
D2 Drought–Severe
D3 Drought–Extreme
D4 Drought–Exceptional
Delineates Overlapping Areas

Drought Impact Types:
A = Agriculture
W = Water (Hydrological)
F = Fire danger (Wildfires)
(No type = All 3 impacts)

See accompanying text summary for forecast statements
Http://drought.unl.edu/monitor/monitor.html

● ***Released Thursday, January 17, 2002*** ●
Author: *Douglas Le Comte, CPC/NOAA*

Climate Prediction Center, W/NP52
Attn: *Weekly Weather & Crop Bulletin*
NOAA/NWS/NCEP/CPC
5200 Auth Road
WWB, Room 605
Camp Springs, MD 20746-4304

WEEKLY NEWS BULLETIN
FIRST CLASS

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

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, $300