

WEEKLY WEATHER AND CROP BULLETIN

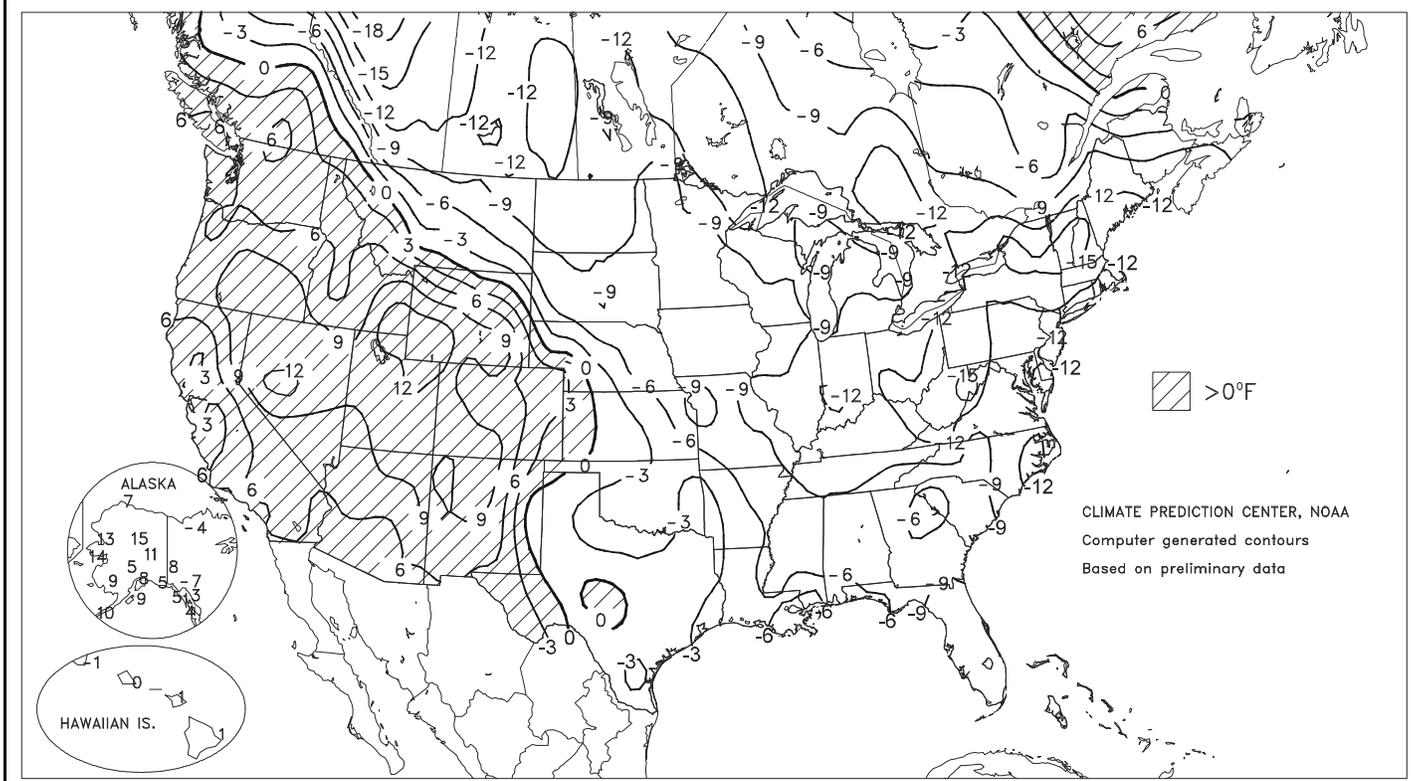
U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Weather Service

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



Departure of Average Temperature from Normal (°F)

JAN 19 - 25, 2003



HIGHLIGHTS

January 19 - 25, 2003

Highlights provided by USDA/WAOB

For the second consecutive week, cold, mostly dry weather across the **eastern half of the Nation** contrasted with warm weather in the **West**. From the **Rockies westward**, significant precipitation was confined to **northern California** and the **Northwest**, leaving the majority of the **West** with serious water supply concerns. Above-normal **Western** snow packs were largely confined to the **Sierra Nevada**, while statewide reservoir supplies were near normal in **California** and **Montana**, but substantially below normal in all other **Western States**. From **Montana to Nebraska**, a shallow snow cover helped to protect winter wheat from low temperatures that ranged

(Continued on page 5)

Contents

Weather Data for Mississippi and Missouri Bootheel & Extreme Minimum Wind Chill Map	2
January 21 Drought Monitor & Total Precipitation Map	3
Extreme Maximum & Minimum Temperature Maps	4
Image of Snow in the Carolinas	5
Florida Freeze and Duration Maps for January 24-25	6
National Weather Data for Selected Cities	8
National Agricultural Summary & Snow Cover Map	11
International Weather and Crop Summary	12
Subscription Information	16

Weather Data for Mississippi and the Missouri Bootheel

Weather Data for the Week Ending January 25, 2003

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

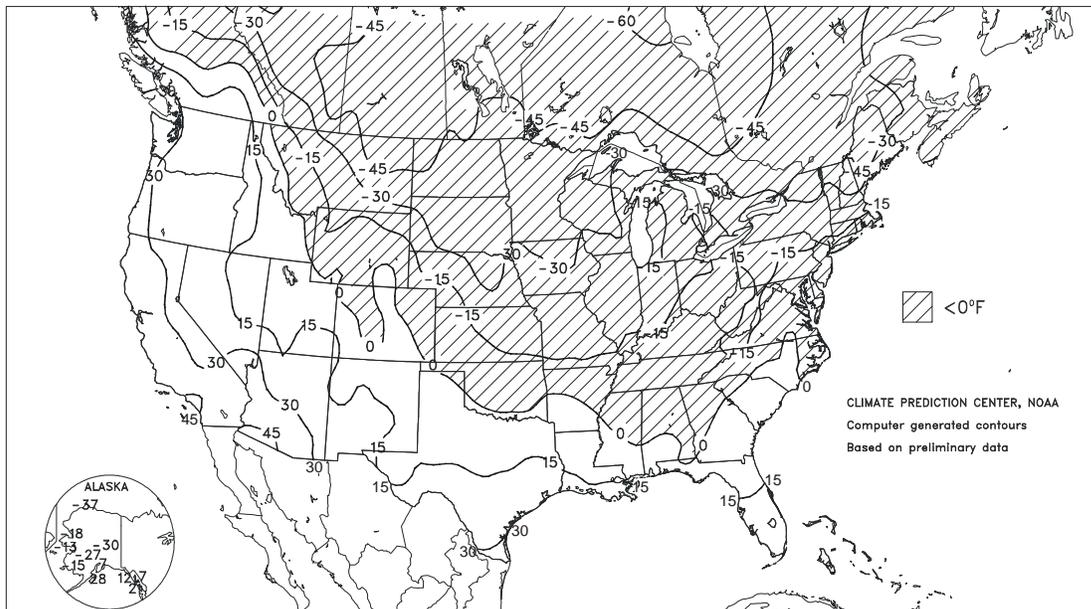
STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						4-INCH SOIL TEMP. °F		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL IN. SINCE Dec 1	PCT. NORMAL SINCE Dec 1	TOTAL IN. SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMP. °F			
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
MS BATESVILLE X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MS BELZONI X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MS CLARKSDALE X	46	22	61	10	34	-6	0.40	-0.79	0.40	9.32	119	1.30	53	-	-	0	6	1	0
MS CLEVELAND X	46	24	66	11	35	-7	0.10	-0.95	0.08	7.98	108	1.06	46	-	-	0	6	3	0
MS GREENVILLE X	49	28	69	13	38	-4	0.00	-1.26	0.00	3.56	46	0.00	0	-	-	0	5	0	0
MS GREENWOOD X	46	26	70	11	36	-7	0.37	-0.82	0.26	8.08	100	0.53	20	-	-	0	5	2	0
MS INDIANOLA 1S	46	26	70	13	36	-	0.04	-	0.02	6.54	-	0.17	-	44	39	0	5	2	0
MS INVERNESS 5E	46	27	69	13	36	-	0.16	-	0.10	7.54	-	0.28	-	44	39	0	5	2	0
MS LYON	43	23	61	10	33	-	0.00	-	0.00	8.69	-	0.16	-	41	36	0	5	0	0
MS MACON	48	26	70	12	37	-	0.21	-	0.21	6.58	-	0.48	-	45	39	0	5	1	0
MS MOORHEAD X	50	26	68	12	38	-5	0.19	-1.07	0.18	2.96	34	1.42	53	-	-	0	5	2	0
MS ONWARD	48	28	70	14	38	-	0.00	-	0.00	7.07	-	0.11	-	47	42	0	5	0	0
MS PERTHSHIRE	43	25	62	11	34	-	0.00	-	0.00	11.78	-	-	-	42	35	0	5	0	0
MS ROLLING FORK X	51	26	72	13	38	-5	0.00	-1.33	0.00	4.22	50	0.53	19	-	-	0	5	0	0
MS SCOTT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MS SIDON	46	27	68	12	36	-	0.27	-	0.21	5.75	-	1.39	-	45	38	0	5	2	0
MS STARKVILLE	46	25	70	9	36	-	0.70	-	0.57	6.31	-	-	-	39	127	0	5	2	1
MS TUNICA X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MS TUNICA 1W	42	22	62	9	32	-	0.00	-	0.00	7.41	-	0.48	-	38	35	0	5	0	0
MS VANCE	42	23	60	9	33	-	0.01	-	0.01	10.16	-	0.23	-	40	37	0	5	1	0
MS VERONA	44	23	65	8	34	-	0.00	-	0.00	6.64	-	0.26	-	44	36	0	5	0	0
MS VICKSBURG X	50	27	71	14	38	-9	0.00	-1.47	0.00	6.68	76	0.33	11	-	-	0	5	0	0
MS YAZOO CITY X	49	24	70	13	37	-8	0.00	-1.47	0.00	6.16	66	0.51	16	-	-	0	5	0	0
MS STONEVILLE X	48	23	69	13	36	-5	0.13	-1.13	0.13	6.70	82	0.69	26	44	37	0	6	1	0
MO DELTA	32	10	49	0	22	-12	0.00	-0.96	0.00	5.85	75	0.16	6	32	31	0	7	0	0
MO STEELE	38	19	58	7	28	-8	0.00	-1.08	0.00	7.91	96	0.43	15	36	33	0	6	0	0
MO GLENNONVILLE	36	17	58	5	27	-8	0.00	-0.72	0.00	6.41	94	0.17	7	36	32	0	7	0	0
MO PORTAGEVILLE LF	36	17	59	5	27	-8	0.03	-0.99	0.03	5.95	76	0.29	10	36	32	0	6	1	0
MO CLARKTON	35	15	59	2	26	-9	0.01	-0.71	0.01	6.24	92	0.22	9	35	33	0	6	1	0
MO CARDWELL	38	18	59	7	28	-8	0.00	-0.95	0.00	6.90	89	0.30	11	39	35	0	6	0	0
MO CHARLESTON	33	13	53	1	24	-11	0.00	-0.64	0.00	6.20	92	0.31	15	35	33	0	7	0	0
MO PORTAGEVILLE DC	35	16	58	4	26	-9	0.07	-0.95	0.07	6.19	79	0.29	10	-	-	0	6	1	0

Compiled by USDA/OCE/WAOB's Stoneville Field Office. X Based on 1971-2000 normals. - Sufficient data not available.

Weather and Crop Summary: Frigid weather entered the Delta, bringing a series of hard freezes. Fieldwork and seedbed preparation progressed despite the cold conditions, aided by continued dry weather, and was on or ahead of schedule.

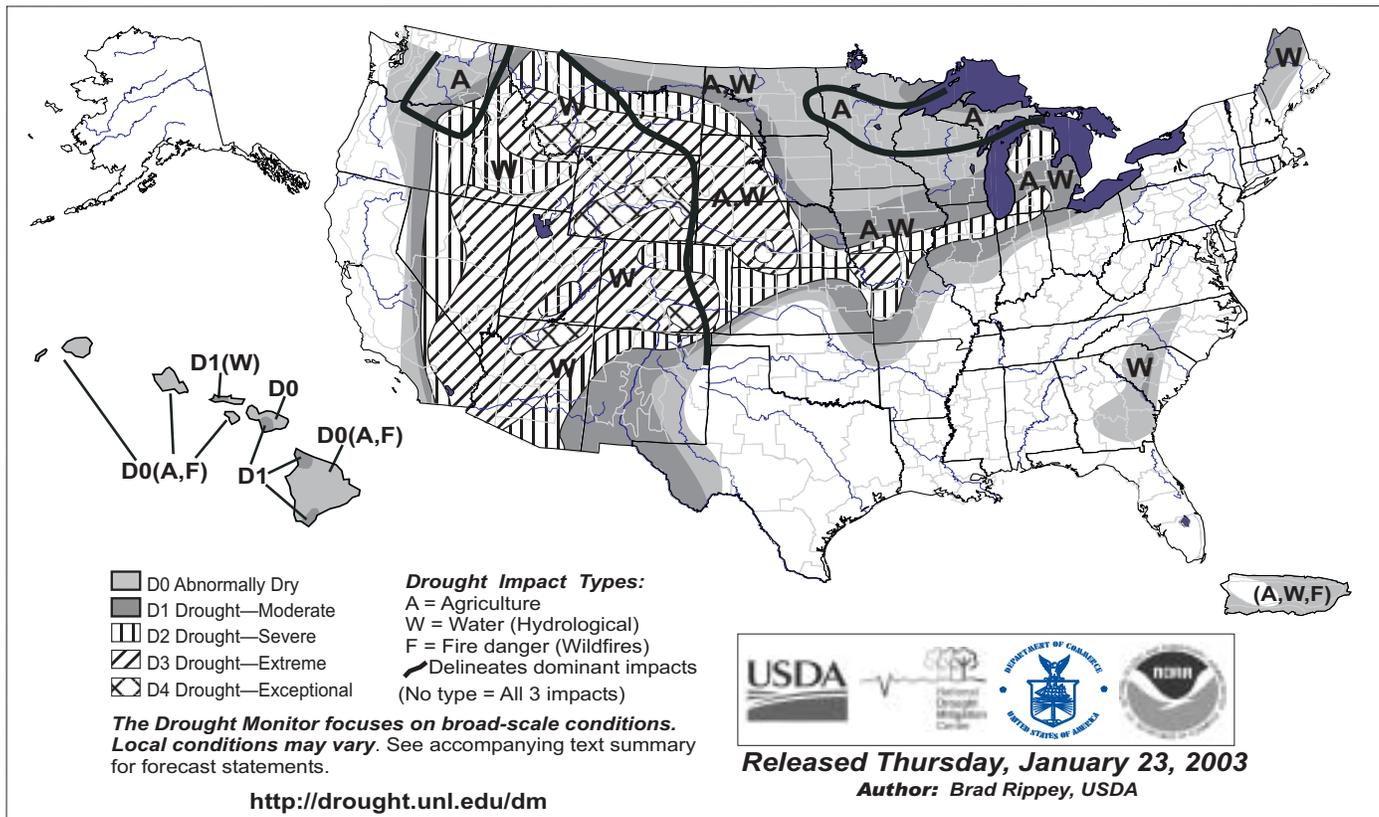
Extreme Wind Chill Temperature (°F)

JAN 19 - 25, 2003



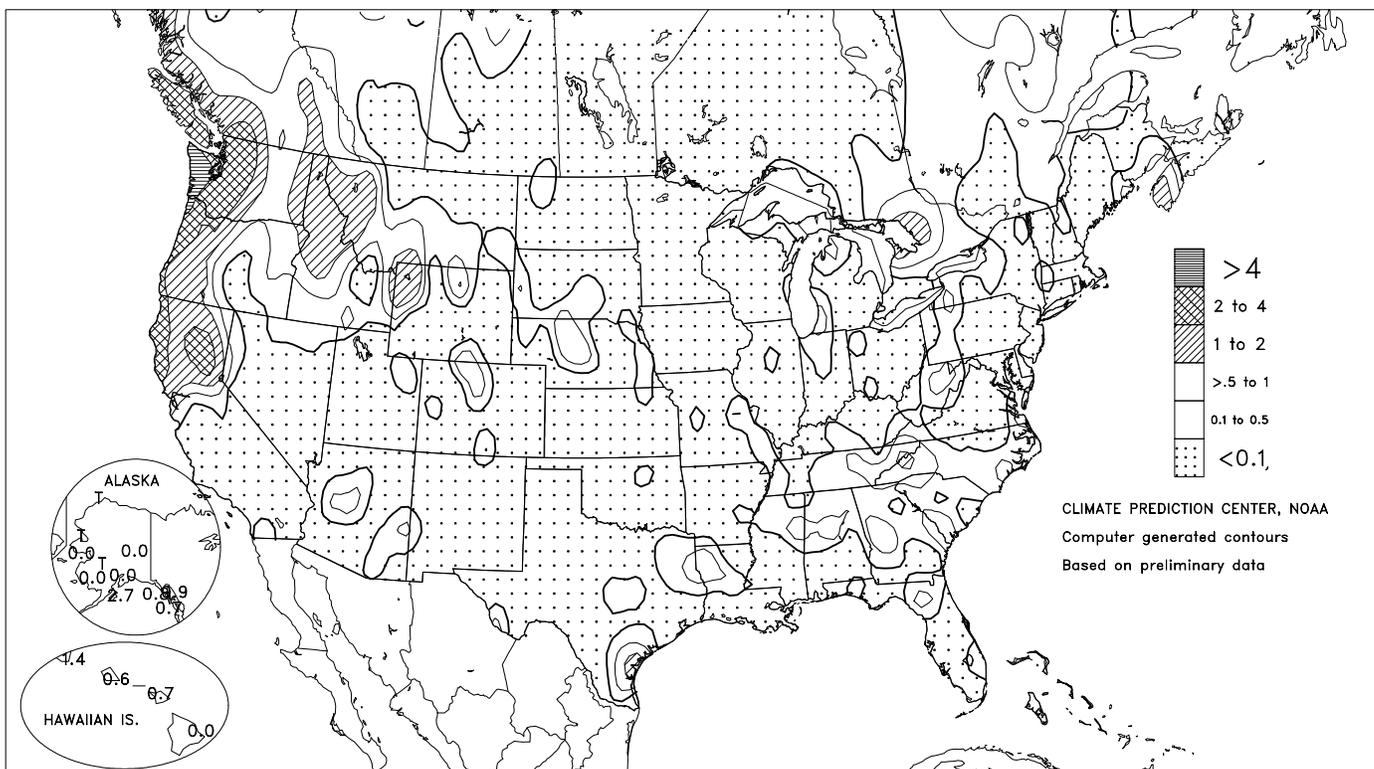
U.S. Drought Monitor

January 21, 2003
Valid 7 a.m. EST



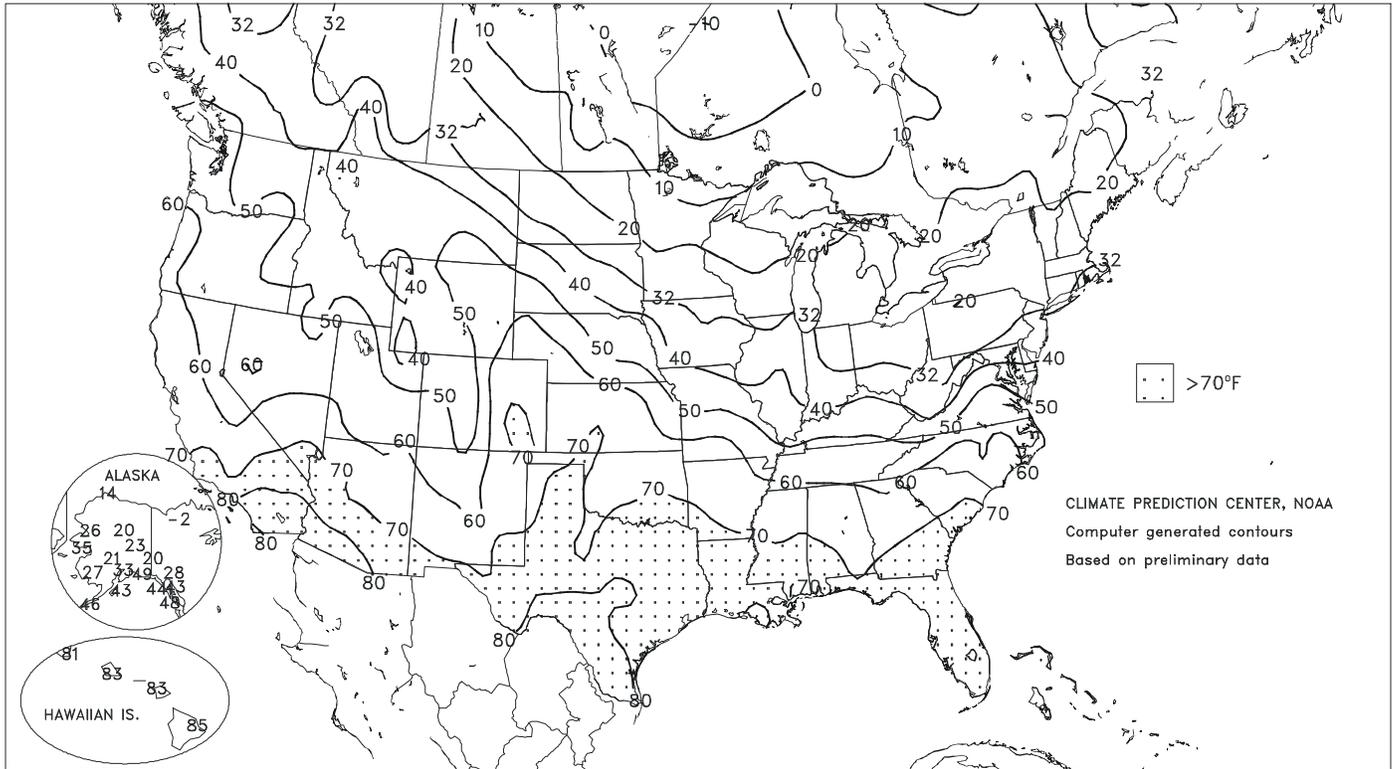
Total Precipitation (Inches)

JAN 19 - 25, 2003



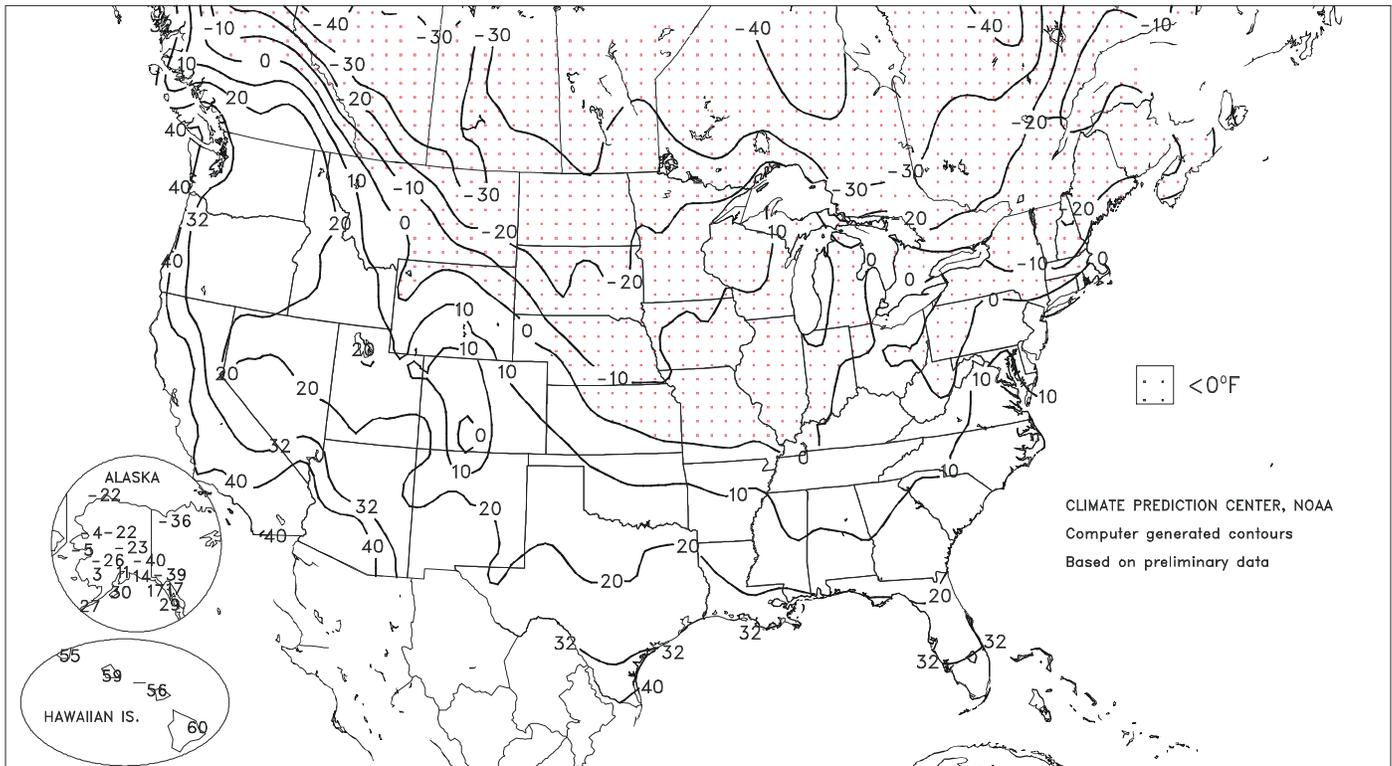
Extreme Maximum Temperature (°F)

JAN 19 - 25, 2003



Extreme Minimum Temperature (°F)

JAN 19 - 25, 2003



(Continued from front cover)

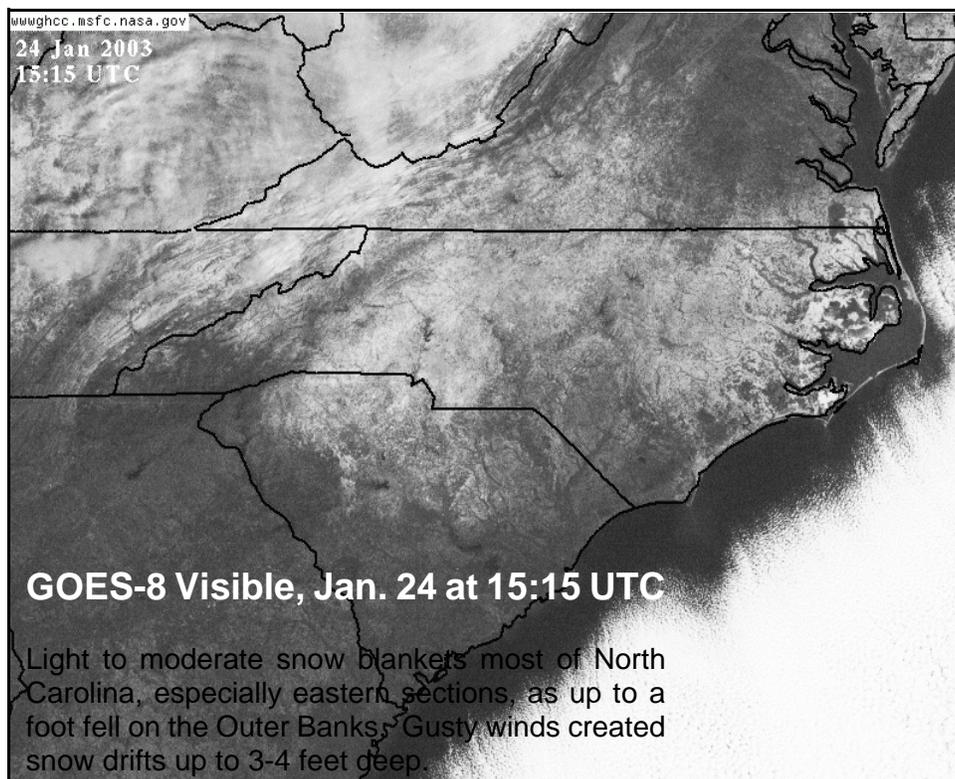
from 0 to -30°F. Although wheat remained exposed on the drought-affected **central High Plains**, temperatures averaged up to 8°F above normal and did not fall below 0°F. Bitterly cold weather (temperatures 4 to 12°F below normal) and occasional gusty winds prevailed in the **Corn Belt**, stressing livestock and sharply curtailing outdoor activities. Temperatures as low as -20°F were reported across the **upper Midwest**. Weekly readings averaged as much as 12°F below normal in **Florida** and ranged from 8 to 18°F below normal in the **Northeast**, capping a two-week cold snap along the **Atlantic Seaboard**. **Central Florida's winter agricultural areas** experienced a freeze on January 24, with low temperatures generally ranging from 22 to 28°F. Gusty winds in **central Florida** made freeze protection measures difficult, although citrus escaped widespread damage. Temperatures were not low enough in **southern Florida** to cause freeze damage to tender ground vegetation, although blowing sand was a concern. However, the freeze was relatively minor compared to the series of major cold outbreaks that affected the state from January 1977 to December 1989, sharply curtailing **Florida's** citrus production for more than a decade. (For more cold snap information, see the "Florida Freeze Review" on pages 6 and 7.) Farther north, one of the most significant winter storms in more than a decade brought heavy snow and high winds to **eastern North Carolina**.

Early in the week, warmth overspread the **High Plains** in advance of a cold front. On January 19, daily-record highs included 68°F in **Salina, KS**, and 61°F in **Sheridan, WY**. Two days later, warmth **east of the Rockies** was confined to **southern Texas**, where daily-record highs reached 86°F in **Del Rio** and 80°F in **San Antonio**. Farther west, warmth continued all week, resulting in more than more than five dozen daily-record highs from the **Rockies westward**. **Cottonwood, AZ**,

closed the week with consecutive daily-record highs (71 and 73°F). In **southern California**, daily-record highs on January 25 included 86°F in **San Bernardino** and 90°F in **Wild Animal Park**. Although sporadic, beneficial precipitation continued in **northern California** and the **Northwest**, **southern California** and the **Southwest** remained dry. January 1-26 rainfall totaled a trace (2.71 inches below normal) in downtown **Los Angeles, CA**, leaving the city headed toward only its fourth January without measurable precipitation, along with 1948, 1972, and 1976. In contrast, January 1-26 precipitation climbed to 2.41 inches (154 percent of normal) in **Spokane, WA**, aided by a daily-record total of 0.50 inch on January 22.

On January 22, **Valentine, NE**, posted a daily-record low of -23°F, while **New England's** highest summit (6,288-foot **Mt. Washington, NH**) noted a low of -34°F, accompanied by wind gusts to 142 mph. A day later, daily records included -24°F in **Huron, SD**, and -9°F in **Kansas City, MO**. By January 24, more than three dozen daily-record lows were set in the **East**. **Florida** records included 25°F in **Daytona Beach**, 27°F in **Orlando** and **Tampa**, and 36°F in **Miami**. More than a dozen additional records were set on January 25, when lows included -14°F in **Montpelier, VT**, and 11°F in **New Bern, NC**. Consecutive daily-record lows were set in several **Florida** cities, including **Lakeland** (27 and 32°F) and **Melbourne** (29 and 32°F). Farther north, a late-week snow storm dumped as much as 1 foot on **North Carolina's Outer Banks**, the region's largest accumulation since 13.3 inches blanketed **Cape Hatteras** on December 23-24, 1989. Following the storm, **Cape Hatteras** notched daily-record lows of 18 and 22°F on January 24-25.

Some scattered, locally heavy showers were noted across the **Hawaiian Islands**, especially early in the period and again toward week's end. For example, 24-hour rainfall totaled 1.91 inches in **Kokee, Kauai**, on January 19-20, and reached 4.76 inches in **Kahakuloa, Maui**, on January 25-26. Meanwhile, mild weather continued across **Alaska**, where weekly temperatures averaged as much as 15°F above normal. In **southwestern Alaska**, **King Salmon** last recorded a high below 32°F on January 6, when their high was -8°F. Significant precipitation was again confined to **southern Alaska**, where month-to-date (January 1-26) precipitation totaled 14.27 inches (206 percent of normal) in **Kodiak** and 5.15 inches (127 percent) in **Juneau**. Farther north, January 1-26 totals included 0.33 inch (38 percent of normal) in **King Salmon** and 0.14 inch (18 percent) in **McGrath**. Season-to-date snowfall totaled just 39.3 inches (59 percent of normal) in **McGrath**.



Florida Freeze Review

Central Florida's winter agricultural areas experienced a damaging freeze on January 24, with low temperatures ranging from 22 to 28 degrees F. Unharvested citrus fruits were likely damaged in some colder locations, where temperatures remained below 28 degrees F for as much as 4 to 8 hours (fig. 1), and will need to be quickly processed. Some trees may have suffered leaf burn. According to the weekly weather and crop report issued by the Florida Agricultural Statistics Service, "temperatures below Interstate 4 generally were not low enough [for] long enough to do much [citrus] damage. There was a little icing of the fruit remaining to be harvested in the coldest areas. There was virtually no tree damage south of I-4." In addition, "most of the early and midseason fruit [had] been harvested in the coldest locations and there are very few Valencias located in the cold lowlands...Harvesting crews rapidly moved into the cold locations over the weekend and sent most of that fruit to the processors."

It is estimated that at least two-thirds of the early and midseason oranges were harvested prior to the freeze. According to the USDA/NASS crop production report issued on January 10, row count surveys indicated that about 52 percent of the estimated 113 million boxes of early and midseason oranges were harvested, the highest early-January level in the last decade. Since then, harvesting of early and midseason varieties has continued at a rate ranging from 6.5 to 8.3 million boxes per week in January, reducing the amount of vulnerable fruit in central Florida's orange groves. Furthermore, remaining fruit that was damaged by the January 24 freeze can still be processed. Temperatures were not low enough in southern Florida to significantly harm unharvested citrus, including much of the Valencia orange crop. Harvest is just underway for the Valencia crop, which accounts for about 43 percent of Florida's forecast of 197 million boxes of oranges.

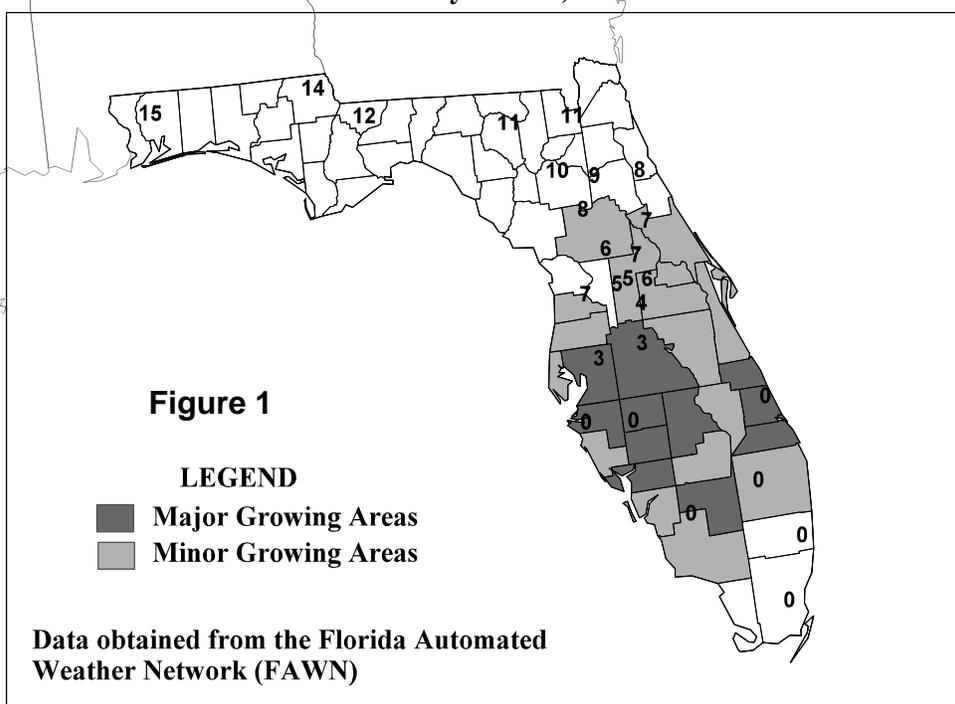
Gusty winds (10 to 20 m.p.h.) made freeze protection measures difficult and may have damaged tender ground vegetation due to blowing sand. The freeze was damaging to some central Florida winter crops, but less severe in southern Florida, where low temperatures ranged from 28 to 36 degrees F (fig. 2). Nevertheless there are varying degrees of concern for all of Florida's winter crops, including beans, cabbage, celery, cilantro, sweet corn, cucumbers, eggplant, lettuce, peppers, squash, tomatoes, strawberries, and ornamentals, due to the combination of near-to below-freezing temperatures and gusty winds. With the exception of strawberries in central Florida, many of the non-citrus crops are grown south of the hardest-hit areas. According to FASS, "freezing and near-freezing temperatures over the southern Peninsula caused varying damage to some [vegetable] crops, especially those with no cold protection. Some young sugarcane was damaged by the cold, with growers currently assessing actual damages."

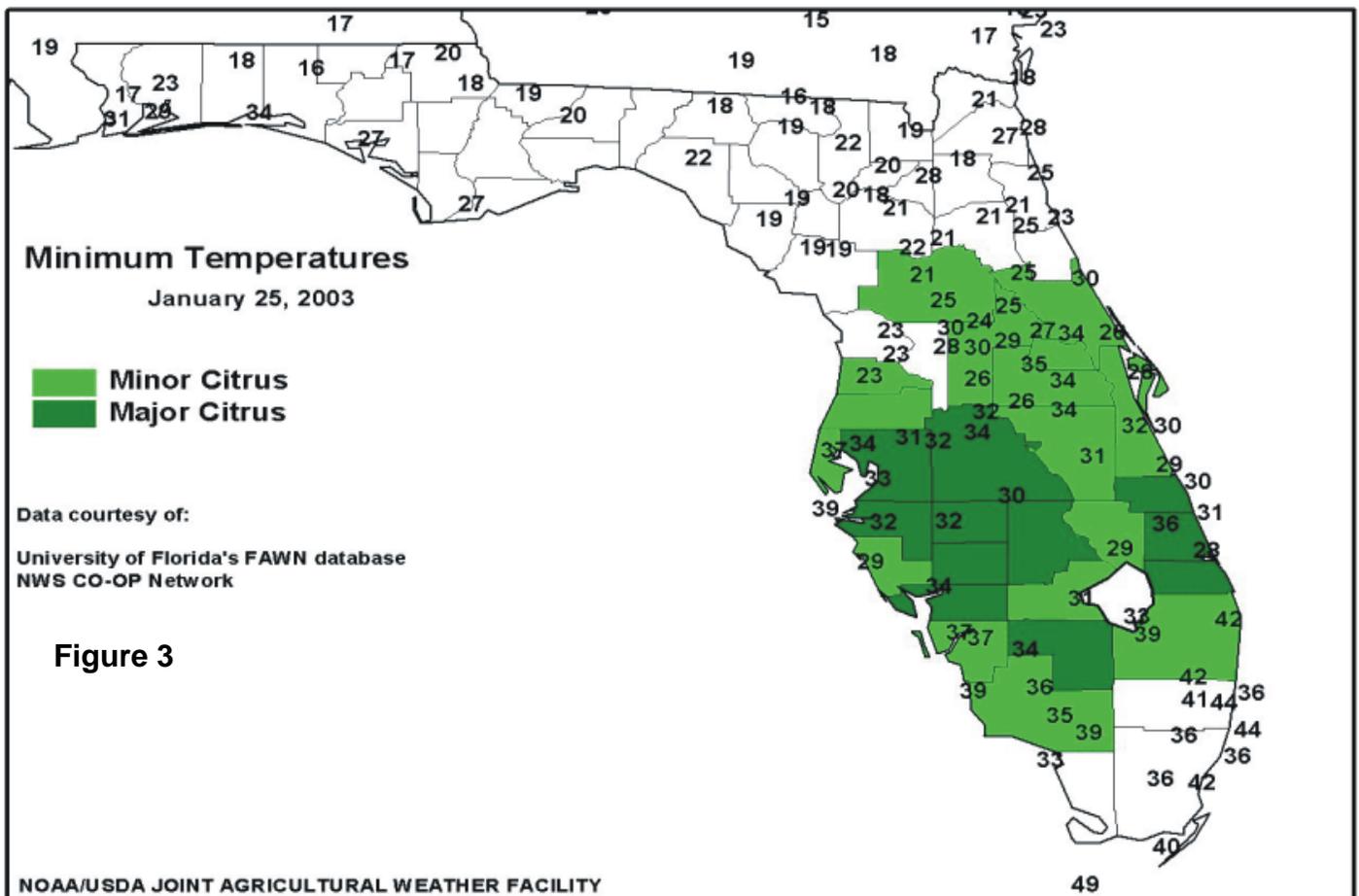
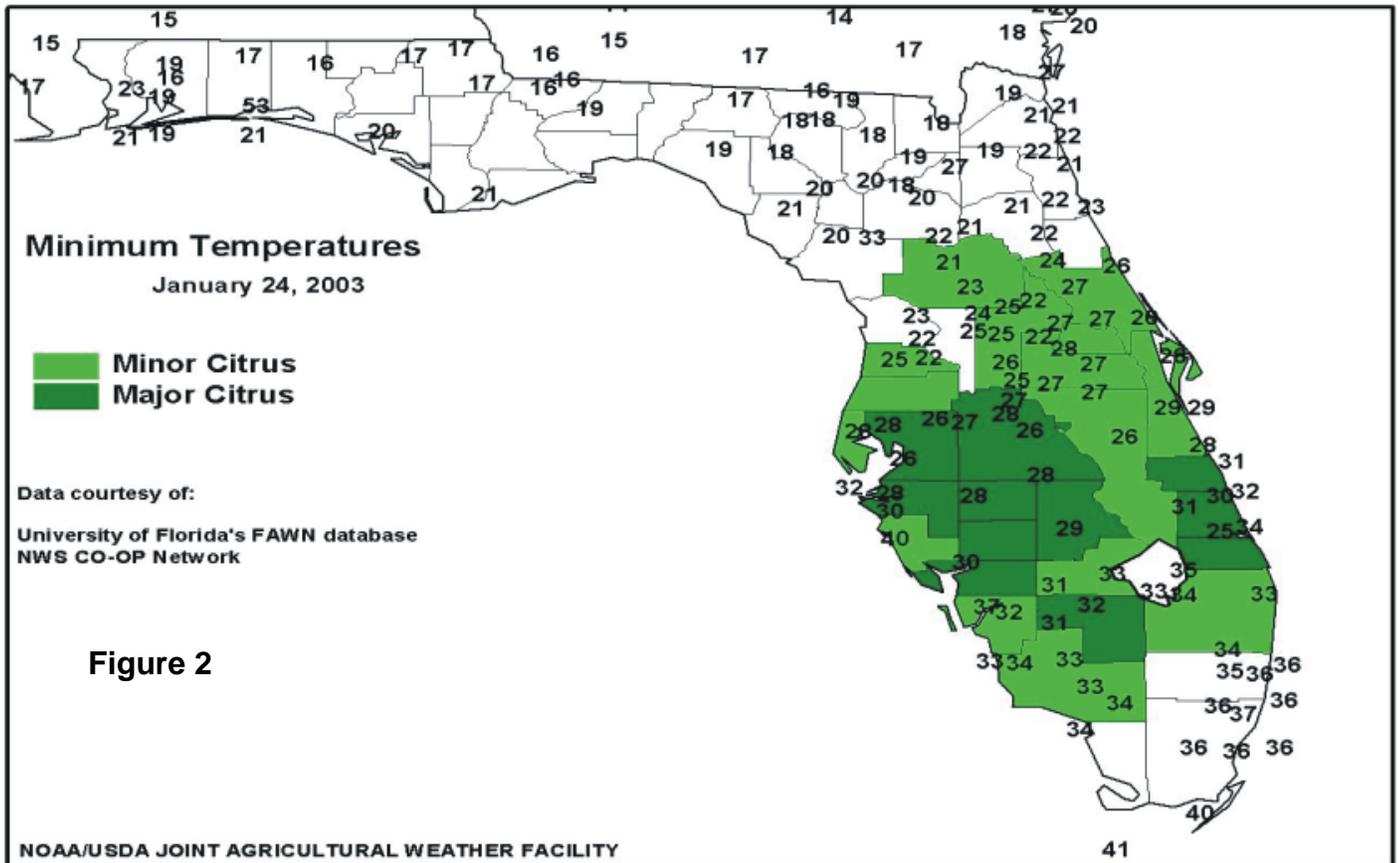
Following the January 24 freeze, cold weather lingered across central Florida into Saturday morning, although temperatures were not low enough to cause additional crop damage (fig. 3). Due to Friday's freeze and gusty winds in central Florida and blowing sand in southern Florida, damage assessments continue for crops such as citrus, strawberries, vegetables, and ornamentals. However, the freeze was relatively minor compared to the series of major cold outbreaks that affected the state from January 1977 to December 1989, sharply curtailing Florida's citrus production for more than a decade.

Many all-time-record lows at major Florida observing stations were established during cold waves in December 1962, January 1977, January 1981, January 1985, and December 1989. There was also a major freeze in December 1983. Sometimes citrus production losses are not realized immediately because damaged fruit is rushed into production, so effects are felt in later years as damage to trees becomes a factor. For example, Florida's orange production slipped from 108.8 million boxes in 1962 (prior to the freeze) to 72.5 million boxes in 1963 (the crop that was on the trees during the December 1962 freeze) to 54.9 million boxes in 1964. Similarly, production reached 206.7 million boxes in 1980, but slipped to 172.4 million boxes in 1981 and 125.8 million boxes in 1982. After rebounding slightly to 139.6 million boxes in 1983, Florida's orange production dipped again to 116.7 million boxes in 1984 and 103.9 million boxes in 1985.

From the standpoint of the Southern Oscillation (El Niño/La Niña), severe Florida freezes—like those observed from 1977 to 1989—are unlikely during moderate to strong warm-phase (El Niño) episodes due to the influence of an extended sub-tropical jet stream and amplified storm track across the southern United States. The last major Florida freeze during a strong warm-phase (El Niño) event was observed in December 1957.

Duration of Cold Weather in Florida Orange Producing Areas
Hours temperatures at or below 28 degrees F (between 7 pm - 10 am)
January 23 - 24, 2003





National Weather Data for Selected Cities

Weather Data for the Week Ending January 25, 2003

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

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	32 AND BELOW	TEMP. °F		PRECIP.	
																		01 INCH OR MORE	50 INCH OR MORE		
AL	BIRMINGHAM	46	25	65	7	35	-7	0.73	-0.51	0.38	8.44	95	1.21	28	81	39	0	5	2	0	
	HUNTSVILLE	42	20	61	5	31	-9	0.04	-1.18	0.03	6.84	68	0.70	16	76	49	0	5	2	0	
	MOBILE	57	33	73	17	45	-5	0.01	-1.34	0.01	9.02	98	0.04	1	73	46	0	4	1	0	
	MONTGOMERY	52	27	70	12	40	-7	0.08	-1.09	0.08	5.57	63	0.41	10	84	49	0	5	1	0	
AK	ANCHORAGE	28	19	33	11	24	8	0.00	-0.13	0.00	0.91	58	0.04	8	80	66	0	7	0	0	
	BARROW	1	-14	14	-22	-7	7	0.02	0.01	0.01	0.11	85	0.09	900	84	82	0	7	2	0	
	FAIRBANKS	9	-6	23	-23	1	11	0.00	-0.10	0.00	0.56	48	0.17	40	83	75	0	7	0	0	
	JUNEAU	33	24	43	17	28	2	0.92	-0.11	0.59	10.80	116	4.94	127	70	57	0	5	4	1	
	KODIAK	41	36	43	30	39	9	2.69	0.88	0.83	19.57	137	13.53	203	92	84	0	1	7	2	
	NOME	29	10	35	-5	19	13	0.00	-0.19	0.00	1.42	84	0.44	64	68	59	0	7	0	0	
AZ	FLAGSTAFF	54	24	59	20	39	9	0.03	-0.47	0.03	0.84	24	0.15	9	87	27	0	7	1	0	
	PHOENIX	74	50	79	48	62	7	0.14	-0.02	0.14	0.74	47	0.58	89	63	39	0	0	1	0	
	TUCSON	72	44	79	40	58	6	0.05	-0.14	0.05	0.71	39	0.08	10	61	37	0	0	1	0	
	YUMA	77	52	83	45	64	5	0.00	-0.06	0.00	0.22	32	0.18	67	54	39	0	0	0	0	
AR	FORT SMITH	46	23	69	13	35	-3	0.00	-0.52	0.00	5.56	106	0.32	17	74	39	0	6	0	0	
	LITTLE ROCK	44	24	63	10	34	-6	0.00	-0.80	0.00	8.28	109	0.11	4	77	30	0	5	0	0	
CA	BAKERSFIELD	60	42	68	36	51	2	0.03	-0.25	0.02	1.54	93	0.14	16	95	82	0	0	2	0	
	FRESNO	58	46	68	42	52	5	0.00	-0.50	0.00	2.73	91	0.29	17	97	87	0	0	0	0	
	LOS ANGELES	69	53	79	49	61	4	0.00	-0.72	0.00	1.82	45	0.01	0	88	70	0	0	0	0	
	REDDING	53	45	64	42	49	3	1.75	0.23	1.32	21.35	217	6.60	128	10	96	0	0	7	1	
	SACRAMENTO	54	47	61	41	51	4	0.54	-0.39	0.25	7.80	140	1.30	44	10	84	0	0	3	0	
	SAN DIEGO	68	53	77	49	61	3	0.02	-0.50	0.02	1.99	65	0.02	1	89	70	0	0	1	0	
	SAN FRANCISCO	57	51	63	46	54	4	0.26	-0.80	0.10	12.21	192	1.46	42	97	90	0	0	5	0	
	STOCKTON	54	44	63	40	49	2	0.04	-0.59	0.02	5.66	145	0.63	30	99	96	0	0	3	0	
CO	ALAMOSA	49	6	51	0	27	12	0.00	-0.03	0.00	0.25	50	0.01	6	80	41	0	7	0	0	
	CO SPRINGS	50	23	68	15	36	8	0.00	-0.03	0.00	0.08	13	0.00	0	72	31	0	6	0	0	
	DENVER INTL	52	20	65	10	36	8	0.00	-0.02	0.00	0.08	16	0.03	17	72	38	0	7	0	0	
	GRAND JUNCTION	51	23	55	18	37	10	0.00	-0.11	0.00	0.29	30	0.13	28	76	50	0	7	0	0	
	PUEBLO	51	20	73	12	35	5	0.00	-0.05	0.00	0.30	47	0.01	4	72	50	0	6	0	0	
CT	BRIDGEPORT	26	11	32	5	18	-12	0.00	-0.82	0.00	5.86	91	1.67	56	57	37	0	7	0	0	
	HARTFORD	22	5	28	-4	13	-13	0.00	-0.85	0.00	5.66	85	1.88	61	61	43	0	7	0	0	
DC	WASHINGTON	32	18	41	14	25	-10	0.02	-0.67	0.02	6.69	119	2.24	86	79	43	0	7	1	0	
DE	WILMINGTON	29	13	36	10	21	-10	0.00	-0.75	0.00	5.74	93	1.54	55	66	30	0	7	0	0	
FL	DAYTONA BEACH	61	34	75	25	48	-10	0.00	-0.70	0.00	10.00	192	0.39	16	93	36	0	4	0	0	
	JACKSONVILLE	58	30	72	19	44	-9	0.04	-0.81	0.04	5.46	99	0.07	2	90	37	0	5	1	0	
	KEY WEST	67	51	78	45	59	-11	0.02	-0.46	0.01	4.49	114	0.43	24	89	53	0	0	2	0	
	MIAMI	69	45	78	36	57	-11	0.01	-0.41	0.01	3.82	106	0.43	30	89	43	0	0	1	0	
	ORLANDO	64	36	77	27	50	-11	0.00	-0.55	0.00	11.97	283	0.59	31	82	46	0	1	0	0	
	PENSACOLA	57	35	72	18	46	-6	0.01	-1.23	0.01	4.98	61	0.08	2	79	46	0	4	1	0	
	TALLAHASSEE	60	28	75	18	44	-8	0.00	-1.21	0.00	6.70	80	0.09	2	79	44	0	5	0	0	
	TAMPA	63	40	72	27	52	-9	0.01	-0.50	0.01	14.29	355	0.16	9	87	43	0	1	1	0	
	WEST PALM	66	41	77	33	54	-12	0.11	-0.80	0.11	3.87	63	1.27	43	97	58	0	0	1	0	
GA	ATHENS	49	27	64	11	38	-4	0.16	-0.91	0.10	5.97	81	0.53	14	69	44	0	5	2	0	
	ATLANTA	47	26	62	8	36	-7	0.41	-0.78	0.24	6.08	78	0.84	21	73	48	0	4	2	0	
	AUGUSTA	52	26	70	14	39	-6	0.54	-0.51	0.46	5.02	75	0.77	22	75	44	0	6	2	0	
	COLUMBUS	52	28	68	12	40	-7	0.68	-0.39	0.68	5.39	66	0.87	23	76	43	0	5	1	1	
	MACON	52	28	69	13	40	-5	0.44	-0.72	0.44	6.10	77	0.71	18	77	38	0	4	1	0	
	SAVANNAH	53	29	72	17	41	-8	0.65	-0.25	0.65	4.55	76	0.65	21	81	52	0	5	1	1	
HI	HILO	82	63	85	60	72	1	0.00	-2.29	0.00	11.58	63	1.10	14	74	63	0	0	0	0	
	HONOLULU	80	66	83	59	73	0	0.61	0.03	0.35	1.20	24	1.16	53	83	69	0	0	3	0	
	KAHULUI	81	65	83	56	73	1	0.67	-0.16	0.34	1.82	30	1.27	42	84	70	0	0	3	0	
	LIHUE	78	63	81	55	71	-1	1.43	0.44	0.63	2.87	34	1.81	48	84	73	0	0	4	1	
ID	BOISE	43	32	50	29	38	7	0.41	0.11	0.14	2.77	113	0.72	67	96	87	0	5	5	0	
	LEWISTON	44	33	53	30	38	4	0.78	0.53	0.33	2.15	112	1.47	169	97	90	0	4	5	0	
	POCATELLO	43	27	50	16	35	10	0.14	-0.11	0.06	0.80	40	0.37	42	92	82	0	6	3	0	
IL	CHICAGO/O'HARE	21	5	34	-4	13	-9	0.01	-0.36	0.01	2.01	53	0.08	6	64	45	0	7	1	0	
	MOLINE	22	5	35	-5	14	-7	0.03	-0.30	0.03	0.81	23	0.10	8	65	47	0	7	1	0	
	PEORIA	26	6	35	-2	16	-6	0.04	-0.26	0.04	2.38	67	0.18	16	84	58	0	7	1	0	
	ROCKFORD	20	3	31	-6	12	-7	0.00	-0.30	0.00	0.91	29	0.13	12	61	45	0	7	0	0	
	SPRINGFIELD	22	4	36	-7	13	-12	0.00	-0.31	0.00	1.90	50	0.21	16	72	56	0	7	0	0	
IN	EVANSVILLE	29	12	43	0	20	-11	0.00	-0.65	0.00	6.35	109	0.68	-10	63	67	51	0	7	0	0
	FORT WAYNE	21	6	27	2	14	-9	0.08	-0.36	0.05	2.08	47	0.47	29	82	60	0	7	2	0	
	INDIANAPOLIS	23	6	34	-4	14	-12	0.00	-0.55	0.00	3.52	70	0.49	25	82	61	0	7	0	0	
	SOUTH BEND	22	8	30	1	15	-8	0.16	-0.31	0.08	2.26	46	0.45	25	77	66	0	7	5	0	
IA	BURLINGTON	22	4	35	-6	13	-10	0.01	-0.27	0.01	1.00	32	0.21	20	76	50	0	7	1	0	
	CEDAR RAPIDS	20	0	33	-9	10	-8	0.00	-0.22	0.00	0.29	13	0.02	3	76	40	0	7	0	0	
	DES MOINES	21	4	38	-8	13	-8	0.05	-0.17	0.05	0.06	3	0.06	8	75	56	0	7	1	0	
	DUBUQUE	18	1	31	-9	10	-7	0.00	-0.28	0.00	0.80	30	0.07	7	71	48	0	7	0	0	
	SIoux CITY	22	2	43	-12	12	-7	0.00	-0.11	0.00	0.28	25	0.16	35	80	64	0	7	0	0	
	WATERLOO	23	1	36	-8	12	-4	0.01	-0.18	0.01	0.33	19	0.01	2	67	45	0	7	1	0	
KS	CONCORDIA	35	10	63	-6	22	-5	0.01	-0.11	0.01	0.18	13	0.06	11	77	63	0	7	1	0	
	DODGE CITY	43	16	68	5	30	0	0.00	-0.11	0.00	0.64	51	0.01	2	78	41	0	7	0	0	
	GOODLAND	44	17	69	8	30	2	0.00	-0.07	0.00	0.17	23	0.17	52	85	60	0	7	0	0	
	TOPEKA	34	10	56	-5	22	-5	0.03	-0.16	0.03	0.15	7	0.11	15	77	54	0	7	1	0	

Based on 1971-2000 normals

*** Not Available

Weather Data for the Week Ending January 25, 2003

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	32 AND BELOW	PRECIP		
																		0.1 INCH OR MORE	5.0 INCH OR MORE	
KY	WICHITA	39	15	61	2	27	-3	0.00	-0.14	0.00	1.34	66	0.12	18	81	59	0	7	0	0
	JACKSON	29	15	41	4	22	-12	0.10	-0.67	0.08	5.66	80	1.37	49	81	45	0	7	2	0
	LEXINGTON	27	13	38	2	20	-12	0.04	-0.66	0.04	4.68	70	0.59	22	77	57	0	7	1	0
	LOUISVILLE	30	15	41	2	22	-11	0.05	-0.67	0.05	7.41	118	0.80	31	72	42	0	7	1	0
	PADUCAH	32	12	53	-3	22	-11	0.03	-0.76	0.03	7.66	109	0.59	22	79	43	0	7	1	0
LA	BATON ROUGE	57	34	72	20	46	-4	0.00	-1.43	0.00	7.16	70	0.01	0	85	40	0	4	0	0
	LAKE CHARLES	57	37	71	23	47	-4	0.00	-1.26	0.00	9.75	107	0.26	6	81	45	0	4	0	0
	NEW ORLEANS	57	38	72	25	47	-5	0.00	-1.41	0.00	4.82	50	0.02	0	74	57	0	3	0	0
	SHREVEPORT	54	33	79	19	43	-4	0.04	-1.00	0.04	8.45	103	0.10	3	67	34	0	4	1	0
ME	CARIBOU	10	-7	16	-11	2	-7	0.03	-0.60	0.03	3.10	55	0.19	8	80	60	0	7	1	0
	PORTLAND	18	-1	25	-5	9	-12	0.00	-0.90	0.00	5.05	67	0.52	16	66	41	0	7	0	0
MD	BALTIMORE	30	13	39	10	22	-10	0.01	-0.75	0.01	7.40	120	2.44	87	69	42	0	7	1	0
MA	BOSTON	23	9	30	3	16	-13	0.00	-0.88	0.00	6.92	101	1.61	52	59	32	0	7	0	0
	WORCESTER	16	3	23	-3	10	-13	0.00	-0.90	0.00	6.20	87	1.69	51	69	41	0	7	0	0
MI	ALPENA	16	3	22	-10	9	-8	0.00	-0.37	0.00	0.63	19	0.11	8	87	61	0	7	0	0
	GRAND RAPIDS	18	6	24	-1	12	-10	0.04	-0.40	0.04	2.12	49	0.15	9	87	65	0	7	1	0
	HOUGHTON LAKE	15	4	21	-4	9	-8	0.02	-0.32	0.02	0.48	16	0.07	6	82	67	0	7	1	0
	LANSING	19	4	24	-6	11	-10	0.00	-0.36	0.00	0.94	28	0.15	12	82	64	0	7	0	0
	MUSKEGON	21	13	28	7	17	-6	0.02	-0.46	0.01	1.01	23	0.14	8	75	66	0	7	2	0
	TRAVERSE CITY	17	10	21	6	14	-6	0.04	-0.63	0.03	0.46	9	0.20	8	89	65	0	7	2	0
MN	DULUTH	5	-11	11	-18	-3	-11	0.00	-0.28	0.00	0.83	47	0.00	0	76	59	0	7	0	0
	INT'L FALLS	0	-16	7	-21	-8	-11	0.00	-0.19	0.00	0.28	21	0.00	0	76	54	0	7	0	0
	MINNEAPOLIS	13	-2	25	-12	5	-8	0.02	-0.20	0.01	0.25	14	0.05	6	72	51	0	7	2	0
	ROCHESTER	11	-4	24	-14	4	-8	0.00	-0.22	0.00	0.56	32	0.01	1	77	66	0	7	0	0
	ST. CLOUD	10	-7	20	-16	2	-7	0.00	-0.17	0.00	0.22	17	0.00	0	80	46	0	7	0	0
MS	JACKSON	51	28	70	13	39	-6	0.00	-1.28	0.00	6.35	64	0.05	1	80	38	0	5	0	0
	MERIDIAN	51	26	69	11	39	-7	0.00	-1.35	0.00	7.97	79	0.06	1	80	46	0	5	0	0
	TUPELO	44	23	65	7	34	-6	0.06	-1.02	0.06	7.51	73	0.39	9	78	49	0	5	1	0
MO	COLUMBIA	30	8	54	-5	19	-9	0.03	-0.35	0.03	2.67	71	0.58	44	77	49	0	7	1	0
	KANSAS CITY	30	8	46	-9	19	-8	0.01	-0.23	0.01	0.08	3	0.05	6	79	51	0	7	1	0
	SAINT LOUIS	29	12	45	1	21	-9	0.07	-0.40	0.07	2.73	60	0.72	43	67	52	0	7	1	0
	SPRINGFIELD	37	12	64	0	24	-8	0.00	-0.47	0.00	3.07	64	0.20	12	73	47	0	7	0	0
MT	BILLINGS	32	8	47	-2	20	-4	0.24	0.07	0.11	0.66	51	0.42	67	84	62	0	7	4	0
	BUTTE	37	12	46	2	25	7	0.25	0.14	0.18	0.61	66	0.46	118	88	58	0	7	3	0
	GLASGOW	11	-5	33	-30	3	-8	0.04	-0.02	0.03	0.19	31	0.15	60	85	75	0	7	2	0
	GREAT FALLS	29	7	49	-3	18	-4	0.09	-0.04	0.04	0.45	38	0.10	19	88	58	0	6	3	0
	HAVRE	16	-2	39	-25	7	-7	0.04	-0.04	0.04	0.30	35	0.22	63	87	70	0	7	1	0
	KALISPELL	31	18	38	10	24	2	0.26	-0.04	0.16	1.74	62	0.50	43	91	83	0	7	5	0
	MISSOULA	32	19	46	13	26	2	0.49	0.27	0.20	1.30	66	0.67	81	94	88	0	7	5	0
NE	GRAND ISLAND	27	5	50	-16	16	-7	0.06	-0.05	0.03	0.24	23	0.22	56	87	76	0	7	3	0
	LINCOLN	26	4	47	-13	15	-8	0.08	-0.05	0.08	0.39	28	0.38	70	84	64	0	7	1	0
	NORFOLK	23	3	45	-16	13	-8	0.03	-0.08	0.03	0.33	32	0.29	74	85	72	0	7	1	0
	NORTH PLATTE	37	8	60	-3	22	-1	0.08	0.01	0.04	0.13	19	0.13	45	93	59	0	7	3	0
	OMAHA	23	4	43	-12	14	-8	0.06	-0.11	0.04	0.35	23	0.35	59	82	65	0	7	2	0
	SCOTTSBLUFF	41	13	62	2	27	2	0.08	-0.03	0.05	0.08	8	0.08	21	84	63	0	7	2	0
	VALENTINE	27	1	48	-23	14	-7	0.03	-0.03	0.02	0.22	42	0.18	90	92	80	0	7	2	0
NV	ELY	52	20	58	16	36	10	0.00	-0.17	0.00	0.22	21	0.06	11	89	55	0	7	0	0
	LAS VEGAS	66	43	73	40	54	6	0.00	-0.14	0.00	0.10	12	0.02	5	53	39	0	0	0	0
	RENO	57	33	62	26	45	11	0.06	-0.18	0.06	2.34	140	0.14	18	84	65	0	3	1	0
	WINNEMUCCA	55	28	59	17	42	11	0.29	0.12	0.24	0.97	66	0.58	89	89	71	0	4	3	0
NH	CONCORD	17	-5	26	-19	6	-14	0.06	-0.60	0.06	4.39	83	0.81	34	76	45	0	7	1	0
NJ	NEWARK	28	13	34	7	21	-10	0.00	-0.89	0.00	6.59	97	2.89	90	55	34	0	7	0	0
NM	ALBUQUERQUE	59	33	61	27	46	10	0.00	-0.08	0.00	0.35	41	0.00	0	53	26	0	4	0	0
NY	ALBANY	16	-1	25	-6	7	-15	0.01	-0.54	0.01	5.32	115	1.34	68	75	51	0	7	1	0
	BINGHAMTON	14	2	20	-5	8	-13	0.01	-0.57	0.01	4.94	98	2.18	109	84	62	0	7	1	0
	BUFFALO	17	8	22	2	13	-11	0.49	-0.19	0.44	6.10	96	1.73	68	86	63	0	7	3	0
	ROCHESTER	17	7	23	-2	12	-11	0.50	0.00	0.25	5.78	126	2.00	108	83	63	0	7	5	0
	SYRACUSE	18	4	25	-5	11	-11	0.15	-0.43	0.06	4.19	81	1.36	66	81	58	0	7	3	0
NC	ASHEVILLE	41	17	60	5	29	-7	0.10	-0.84	0.09	7.01	107	0.59	18	82	46	0	6	2	0
	CHARLOTTE	44	20	61	8	32	-10	0.31	-0.60	0.17	5.91	93	0.95	30	82	39	0	5	3	0
	GREENSBORO	41	20	60	7	30	-8	0.04	-0.76	0.04	5.79	99	1.34	48	79	37	0	7	1	0
	HATTERAS	44	28	54	18	36	-10	0.35	-0.95	0.31	4.40	47	2.08	44	74	42	0	5	2	0
	RALEIGH	42	19	62	10	31	-9	0.04	-0.89	0.04	5.88	94	0.84	26	78	43	0	7	1	0
	WILMINGTON	47	24	68	15	35	-11	0.25	-0.78	0.23	3.86	52	1.33	37	86	39	0	6	3	0
ND	BISMARCK	10	-7	28	-22	2	-8	0.01	-0.07	0.01	0.36	49	0.05	17	77	66	0	7	1	0
	DICKINSON	10	-6	30	-24	2	-12	0.04	-0.04	0.04	0.44	77	0.09	39	88	70	0	7	1	0
	FARGO	5	-10	16	-21	-2	-9	0.00	-0.16	0.00	0.87	76	0.04	7	79	64	0	7	0	0
	GRAND FORKS	4	-11	14	-21	-4	-9	0.00	-0.14	0.00	0.32	31	0.00	0	82	58	0	7	0	0
	JAMESTOWN	6	-10	21	-25	-2	-11	0.00	-0.14	0.00	0.37	41	0.13	28	86	70	0	7	0	0
	WILLISTON	5	-14	24	-29	-5	-13	0.12	0.01	0.04	0.86	90	0.23	59	89	79	0	7	4	0
OH	AKRON-CANTON	19	8	25	0	13	-12	0.17	-0.37	0.08	4.20	85	1.29	65	81	62	0	7	4	0
	CINCINNATI	25	11	36	4	18	-12	0.03	-0.60	0.03	6.28	112	1.36	58	70	55	0	7	1	0
	CLEVELAND	21	10	26	4	16	-9	0.21	-0.34	0.06	5.07	99	1.36	69	84	58	0	7	5	0
	COLUMBUS	23	10	31	3	16	-12	0.10	-0.45	0.04	4.11	84	1.35	68	79	58	0	7	4	0
	DAYTON	22	7	31	0	14	-12	0.02	-0.53	0.02	4.01	78	0.78	38	78	58	0	7	1	0
	MANSFIELD	19	7	26	-3	13	-11	0.00	-0.57	0.00	3.12	58	0.38	18	88	57	0	7	0	0

Weather Data for the Week Ending January 25, 2003

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	0.1 INCH OR MORE	5.0 INCH OR MORE	
OK	TOLEDO	23	9	28	0	16	-8	0.00	-0.41	0.00	2.99	72	0.31	21	82	60	0	7	0	0
	YOUNGSTOWN	18	7	23	-3	13	-12	0.19	-0.31	0.06	4.03	84	1.12	61	81	62	0	7	4	0
	OKLAHOMA CITY	45	19	65	9	32	-5	0.00	-0.23	0.00	1.87	64	0.02	2	77	34	0	7	0	0
	TULSA	44	23	69	8	34	-2	0.00	-0.33	0.00	2.92	79	0.16	13	74	46	0	6	0	0
OR	ASTORIA	55	45	60	40	50	7	2.48	0.31	1.04	19.88	110	7.12	92	95	87	0	0	6	2
	BURNS	39	29	48	27	34	9	0.33	0.08	0.18	2.72	123	0.75	82	97	90	0	6	4	0
	EUGENE	54	41	61	31	47	7	1.07	-0.67	0.49	16.21	113	4.16	68	98	91	0	1	5	0
	MEDFORD	52	39	62	32	45	5	0.58	0.03	0.30	8.86	182	1.66	84	96	81	0	1	6	0
	PENDLETON	44	34	59	31	39	5	0.30	-0.03	0.19	3.52	135	1.28	114	91	86	0	4	5	0
	PORTLAND	50	39	59	27	44	4	1.13	0.00	0.46	11.78	121	3.79	94	95	86	0	1	5	0
	SALEM	53	39	61	26	46	5	1.09	-0.23	0.49	15.22	137	4.02	87	95	90	0	2	5	0
PA	ALLENTOWN	25	9	31	4	17	-10	0.00	-0.78	0.00	6.20	100	1.24	44	67	41	0	7	0	0
	ERIE	19	10	24	3	15	-11	0.07	-0.45	0.04	4.69	82	0.71	35	83	65	0	7	2	0
	MIDDLETOWN	27	13	31	9	20	-8	0.00	-0.63	0.00	6.80	125	2.20	100	80	38	0	7	0	0
	PHILADELPHIA	29	15	36	11	22	-10	0.00	-0.78	0.00	5.68	93	1.62	57	61	38	0	7	0	0
	PITTSBURGH	20	9	26	0	15	-12	0.01	-0.60	0.01	4.26	85	1.70	79	83	52	0	7	1	0
	WILKES-BARRE	20	6	25	2	13	-13	0.00	-0.55	0.00	4.95	111	1.49	78	75	46	0	7	0	0
	WILLIAMSPORT	24	9	29	3	16	-9	0.00	-0.66	0.00	5.03	97	1.67	75	79	49	0	7	0	0
RI	PROVIDENCE	27	10	45	5	19	-10	0.00	-0.98	0.00	7.13	93	1.97	56	62	39	0	7	0	0
SC	BEAUFORT	53	31	71	19	42	-6	0.16	-0.77	0.02	4.03	63	0.23	7	83	37	0	4	2	0
	CHARLESTON	52	29	72	17	40	-8	0.76	-0.15	0.75	5.15	79	0.94	29	79	37	0	4	2	1
	COLUMBIA	49	26	68	13	38	-7	0.13	-0.94	0.06	4.54	64	0.37	10	75	44	0	4	3	0
	GREENVILLE	48	25	62	12	36	-5	0.22	-0.77	0.12	7.24	98	0.78	22	86	45	0	5	2	0
SD	ABERDEEN	13	-5	30	-18	4	-7	0.00	-0.08	0.00	0.32	43	0.02	6	77	69	0	7	0	0
	HURON	17	-6	37	-24	5	-9	0.00	-0.10	0.00	0.43	58	0.04	11	84	68	0	7	0	0
	RAPID CITY	30	3	55	-13	17	-6	0.02	-0.04	0.01	0.18	28	0.14	56	90	67	0	7	2	0
	SIoux FALLS	17	-3	38	-16	7	-7	0.02	-0.09	0.02	0.26	29	0.10	26	79	67	0	7	1	0
TN	BRISTOL	34	16	50	5	25	-9	0.13	-0.67	0.06	5.63	91	1.25	45	88	48	0	7	3	0
	CHATTANOOGA	43	20	58	7	32	-7	0.21	-1.03	0.20	7.59	83	0.86	20	70	45	0	6	2	0
	KNOXVILLE	38	20	56	4	29	-9	0.74	-0.27	0.56	7.11	87	1.76	48	80	51	0	6	2	1
	MEMPHIS	43	24	62	10	34	-6	0.00	-0.93	0.00	10.04	111	0.38	11	70	33	0	5	0	0
	NASHVILLE	36	18	58	2	27	-10	0.27	-0.60	0.26	6.85	89	1.02	32	86	45	0	6	2	0
TX	ABILENE	51	31	79	18	41	-3	0.00	-0.19	0.00	1.52	75	0.18	24	68	52	0	3	0	0
	AMARILLO	49	18	69	15	34	-2	0.00	-0.11	0.00	1.10	100	0.00	0	83	38	0	7	0	0
	AUSTIN	58	35	80	22	47	-3	0.02	-0.37	0.02	6.14	155	1.61	106	76	56	0	4	1	0
	BEAUMONT	59	40	75	26	49	-3	0.00	-1.25	0.00	8.21	83	0.00	0	79	48	0	3	0	0
	BROWNSVILLE	68	53	79	45	61	1	0.11	-0.22	0.06	1.99	94	0.73	73	95	70	0	0	2	0
	CORPUS CHRISTI	63	44	80	34	54	-2	0.28	-0.07	0.18	4.10	138	0.91	74	91	69	0	0	2	0
	DEL RIO	61	39	86	32	50	-1	0.00	-0.12	0.00	0.60	54	0.29	78	81	56	0	1	0	0
	EL PASO	66	36	70	28	51	5	0.00	-0.08	0.00	1.65	149	0.00	0	69	29	0	1	0	0
	FORT WORTH	52	31	77	17	42	-2	0.00	-0.36	0.00	4.35	106	0.22	14	81	38	0	3	0	0
	GALVESTON	59	45	72	30	52	-4	0.00	-0.93	0.00	4.16	61	0.50	15	89	63	0	1	0	0
	HOUSTON	60	42	78	29	51	-1	0.05	-0.77	0.05	6.37	96	0.70	24	77	53	0	2	1	0
	LUBBOCK	53	23	77	18	38	0	0.00	-0.10	0.00	1.61	161	0.04	12	73	47	0	7	0	0
	MIDLAND	57	29	75	24	43	0	0.00	-0.11	0.00	1.35	130	0.29	74	74	48	0	5	0	0
	SAN ANGELO	58	33	80	22	46	1	0.00	-0.17	0.00	1.71	113	0.33	57	66	47	0	4	0	0
	SAN ANTONIO	60	38	80	27	49	-1	0.06	-0.30	0.06	3.50	107	0.98	75	86	51	0	3	1	0
	VICTORIA	61	41	80	29	51	-2	0.15	-0.37	0.14	4.48	102	1.84	95	88	61	0	3	2	0
	WACO	56	34	79	20	45	-1	0.03	-0.36	0.03	8.10	191	0.46	31	77	49	0	3	1	0
	WICHITA FALLS	50	25	80	14	38	-2	0.00	-0.22	0.00	1.97	77	0.08	9	77	44	0	5	0	0
UT	SALT LAKE CITY	51	29	56	23	40	10	0.00	-0.30	0.00	0.60	26	0.13	12	90	52	0	4	0	0
VT	BURLINGTON	12	-3	22	-11	4	-13	0.00	-0.50	0.00	2.23	56	0.93	53	70	49	0	7	0	0
VA	LYNCHBURG	35	16	51	11	26	-8	0.07	-0.73	0.06	5.26	87	1.21	43	70	35	0	7	2	0
	NORFOLK	36	21	54	16	29	-11	0.03	-0.86	0.03	5.27	86	1.10	35	82	43	0	7	1	0
	RICHMOND	36	19	55	15	28	-8	0.00	-0.78	0.00	5.09	85	1.63	57	72	50	0	7	0	0
	ROANOKE	35	19	49	11	27	-9	0.06	-0.68	0.05	5.20	96	1.30	51	66	42	0	7	2	0
	WASH/DULLES	32	15	41	10	23	-9	0.00	-0.67	0.00	6.12	111	2.51	103	60	41	0	7	0	0
WA	OLYMPIA	51	40	57	30	46	8	2.35	0.64	0.90	13.13	95	5.73	96	98	92	0	1	6	1
	QUILLAYUTE	51	44	56	38	48	7	4.43	1.33	1.53	25.94	102	11.22	103	97	93	0	0	7	4
	SEATTLE-TACOMA	50	43	54	38	46	5	2.83	1.67	0.81	12.23	126	6.25	153	97	85	0	0	6	3
	SPOKANE	35	29	43	26	32	4	0.85	0.46	0.50	5.55	151	2.28	159	98	90	0	6	4	1
	YAKIMA	39	31	46	28	35	5	0.59	0.35	0.47	4.89	214	1.39	153	94	90	0	4	3	0
WV	BECKLEY	26	12	35	4	19	-11	0.03	-0.69	0.01	4.29	76	1.26	49	69	56	0	7	3	0
	CHARLESTON	28	16	40	9	22	-11	0.03	-0.71	0.03	4.28	73	1.33	52	88	53	0	7	1	0
	ELKINS	21	4	30	-6	13	-15	0.22	-0.55	0.19	4.22	68	1.76	64	85	52	0	7	3	0
	HUNTINGTON	29	15	41	8	22	-11	0.03	-0.67	0.01	4.16	70	1.05	41	91	56	0	7	3	0
WI	EAU CLAIRE	12	-4	21	-12	4	-8	0.00	-0.24	0.00	0.67	37	0.02	3	77	48	0	7	0	0
	GREEN BAY	15	0	22	-6	7	-8	0.00	-0.28	0.00	0.82	35	0.07	7	74	48	0	7	0	0
	LA CROSSE	15	-2	27	-9	7	-9	0.00	-0.28	0.00	0.39	18	0.03	3	72	47	0	7	0	0
	MADISON	16	1	27	-9	9	-8	0.00	-0.28	0.00	0.73	28	0.06	6	63	46	0	7	0	0
	MILWAUKEE	18	4	30	-5	11	-10	0.00	-0.41	0.00	0.81	22	0.06	4	60	44	0	7	0	0
WY	CASPER	42	17	54	2	30	8	0.00	-0.11	0.00	0.27	27	0.07	18	77	53	0	7	0	0
	CHEYENNE	47	21	57	6	34	8	0.00	-0.08	0.00	0.12	16	0.00	0	65	45	0	7	0	0
	LANDER	42	18	50	9	30	9	0.00	-0.11	0.00	0.52	52	0.32	82	79	64	0	7	0	0
	SHERIDAN	34	8	61	0	21	-1	0.18	0.01	0.08	0.38	30	0.18	31	84	67	0	7	3	0

Based on 1971-2000 normals

*** Not Available

National Agricultural Summary

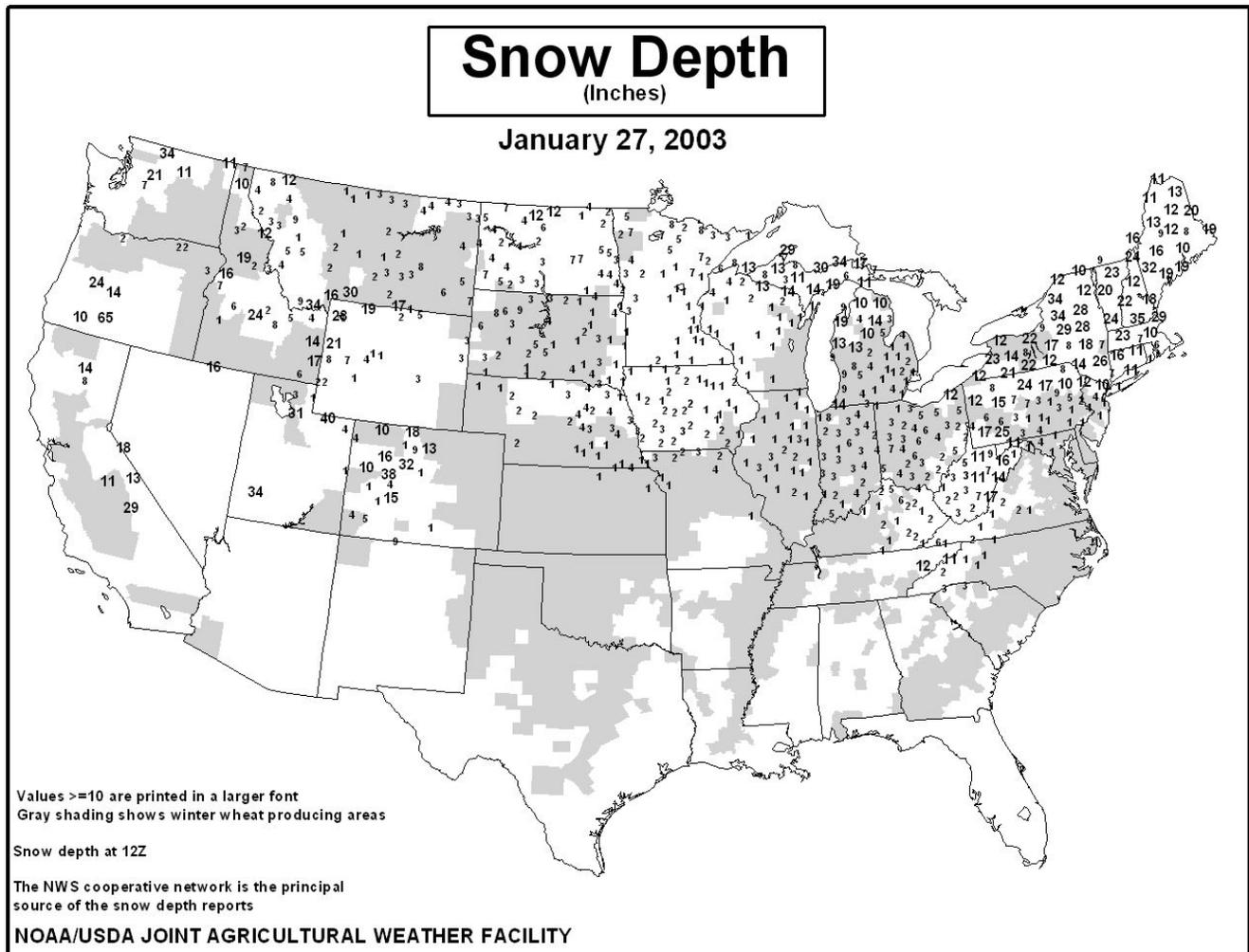
January 20 - 26, 2003

Weekly National Agricultural Summary provided by USDA/NASS

HIGHLIGHTS

Temperatures remained well below normal across the eastern two-thirds of the Nation, and bitterly cold weather remained entrenched across the northern Great Plains, upper Mississippi Valley, Great Lakes, and Corn Belt. Temperatures dropped well below freezing as far south as central Florida, and were near freezing in southern Florida. Most of the early and mid-season citrus was harvested, although a few unharvested Valencias remained in the low lands, where the coldest temperatures were recorded. Harvest crews rapidly moved into the late-season citrus groves over the weekend and sent most of that fruit to the processors. Plenty of undamaged fruit remained for the fresh fruit packers as well. Some damage was seen on citrus trees in the northern citrus orchards as well as vegetable crops and recently planted sugarcane in the Everglades region. Strawberry

growers ran overhead sprinklers to insulate plants and immature fruit from the cold weather. On a positive note, the cold weather provided additional chill hours for fruit orchards throughout the Southeast. Above-normal temperatures continued in the Rocky Mountain and Pacific Coast States, and stormy weather continued in the Pacific Northwest. In California, irrigated winter crops flourished in the abnormally warm weather, and soil moisture supplies were mostly adequate to support vigorous growth of dryland crops. Field and orchard work continued with virtually no delays. On the northern Great Plains, widespread snow cover provided the winter wheat crop some insulation from the cold weather, but depths were mostly shallow and a few fields were bare. Fieldwork was active in the southern Great Plains where conditions allowed.



International Weather and Crop Summary

January 19 - 25, 2003

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

HIGHLIGHTS

EUROPE: Wet, mild weather favored dormant winter crops, but reduced winter hardiness and snow cover.

FSU-WESTERN: Unseasonably mild weather favored dormant winter grains.

MIDDLE EAST: Across Turkey, widespread rain boosted moisture supplies for mostly dormant winter grains, while cold weather continued to stress winter crops in northwestern Iran.

NORTHWESTERN AFRICA: Widespread rain maintained adequate to abundant soil moisture for vegetative winter grains, but caused local flooding in eastern Algeria and Tunisia.

SOUTH AFRICA: Widespread showers returned to the corn belt, favoring reproductive corn and other summer crops.

SOUTHEAST ASIA: Increased shower activity favored reproductive rice in Java, Indonesia.

EASTERN ASIA: Above-normal temperatures favored overwintering wheat on the North China Plain, while in southern China, showers increased irrigation reserves.

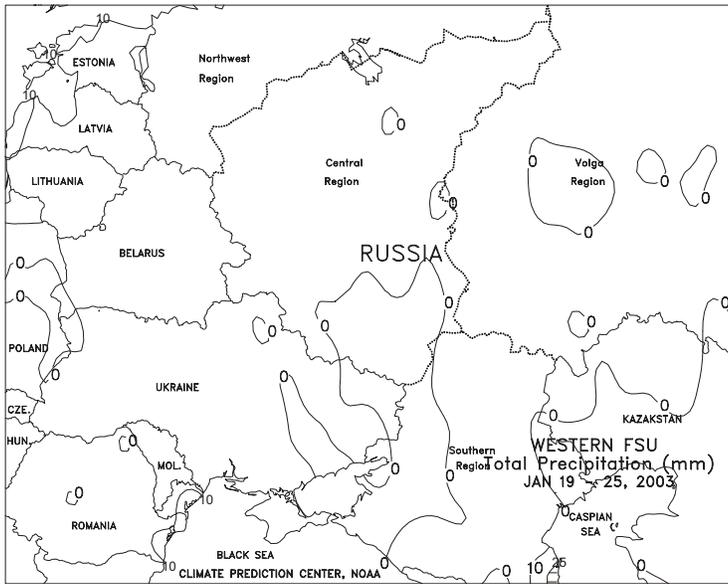
AUSTRALIA: Light showers provided limited relief from the extreme drought gripping major summer crop and winter grain producing areas.

SOUTH AMERICA: Warm, showery weather maintained mostly favorable conditions for developing summer crops, although pockets of wetness persisted in Brazil.



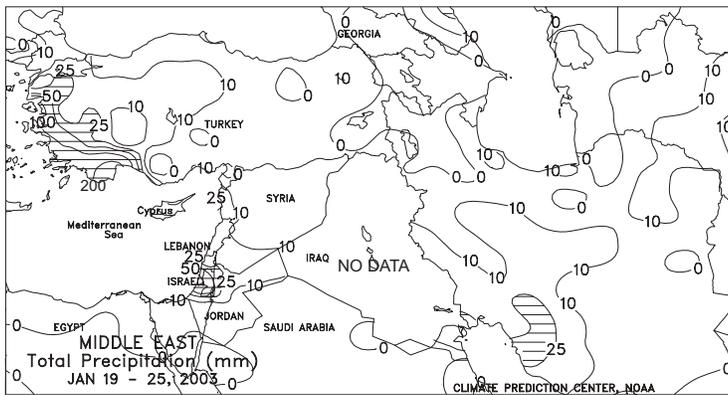
EUROPE

Across Europe, mostly wet, mild weather (temperatures averaging 1-4 degrees C above normal) generally favored dormant winter crops. Across England, France, and the Low Countries, however, the mild weather caused winter crops to lose some winter hardiness, leaving them vulnerable to potential future cold air outbreaks. Widespread rain (10-30 mm or more) covered this region along with northern Italy, maintaining adequate to abundant moisture supplies for winter crops. The heaviest rain (25-75 mm or more) fell across Portugal, northwestern Spain, southern Italy, and Greece, boosting moisture supplies, but causing local flooding. Lighter showers (5-25 mm) fell across the remaining portions of southern Europe. Rain and higher elevation snows (5-20 mm of water equivalent) spread across central and eastern Europe, boosting moisture reserves. However, the combination of rain and unseasonable warmth diminished the snow cover protecting winter crops across northern and southern Germany and Poland. The unseasonable warmth also reduced the heavy snow cover in southeastern Europe.



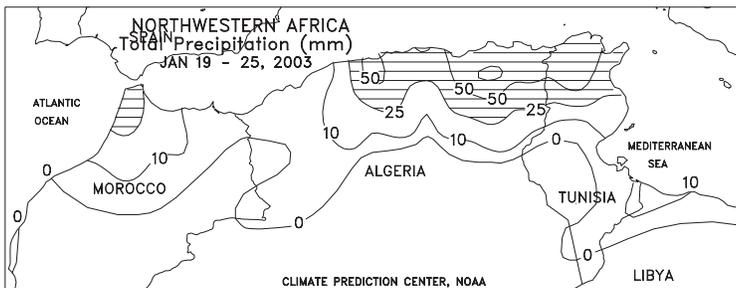
FSU-WESTERN

A strong ridge of high pressure prevailed over most of the region, ushering in unseasonably mild and generally dry weather to most winter grain areas. Weekly temperatures averaged 1 to 3 degrees C above normal in Ukraine and the Southern Region in Russia, and 3 to 7 degrees C above normal in northern Russia (Northwest Region, Central Region, and Volga Region), Belarus, and the Baltics. Maximum temperatures rose slightly above freezing (1 to 3 degrees C) at most locations, with the warmest weather (extreme maximum temperatures ranging from 3-10 degrees C) observed in western Ukraine and crop areas in southern Russia adjacent to the Black Sea Coast. The mild weather in these areas melted most of the protective snow cover. A moderate to deep snow cover remained over central Ukraine and northern Russia. Most locations across the region received little (less than 5 mm, liquid equivalent), if any, precipitation.



MIDDLE EAST

In Turkey, widespread precipitation (10-40 mm) covered the main winter grain growing areas. Most of the precipitation fell as rain, although snow was observed on the central Plateau. Mostly dry weather (less than 5 mm) was confined to crop areas along the northern Black Sea coast. Despite warm weather (temperatures 2-4 degrees C above normal), winter grains remained dormant, except in the extreme south and west. In northwestern Iran, a lack of snow cover and minimum temperatures that ranged from -16 to -10 degrees C stressed dormant winter grains. In central and southwestern Iran, rain and higher elevation snows (12-35 mm of water equivalent) boosted moisture reserves for winter grains. Light to moderate showers (5-35 mm) fell across the Mediterranean coast from Syria to Israel, increasing irrigation supplies. Light rain favored rainfed winter grains in Jordan (5-15 mm) and eastern Syria (1-5 mm). Temperatures averaged 1 to 2 degrees C above normal in the Middle East, slightly increasing water use of crops under irrigation. Based on reports from neighboring areas of Turkey and Iran, only scattered light precipitation fell across northern Iraq.

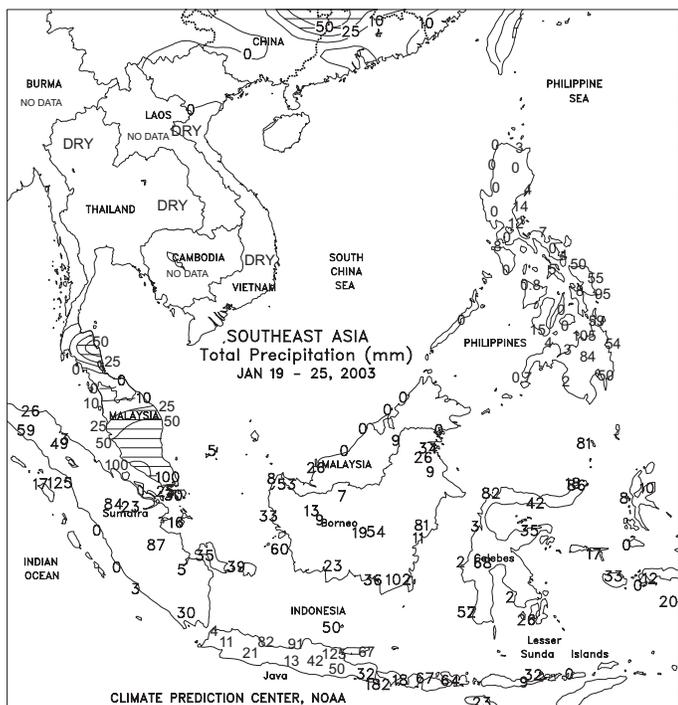
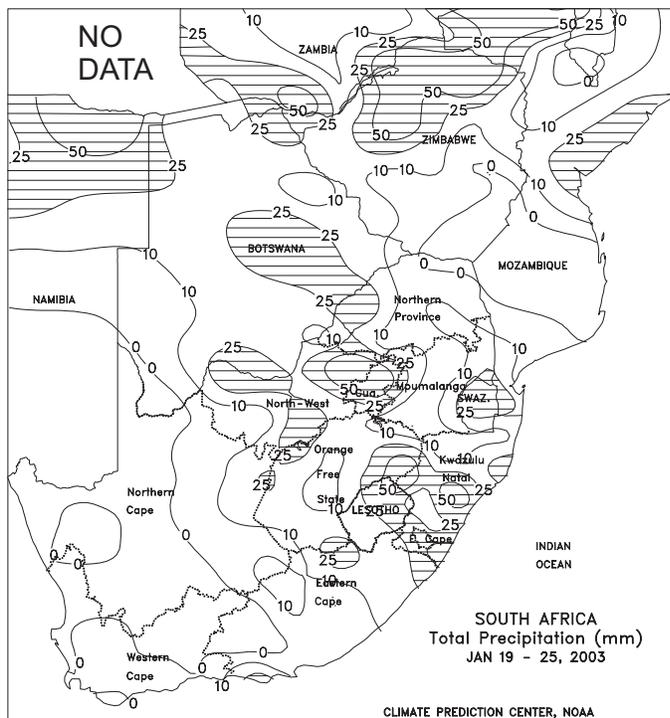


NORTHWESTERN AFRICA

Widespread rain covered Tunisia, northern Morocco, and most of Algeria, maintaining adequate to abundant soil moisture for vegetative winter grains. Locally heavy rain (75-120 mm) created the potential for local flooding in portions of eastern Algeria and Tunisia. Light, if any precipitation was observed in southern Morocco and western Algeria. In Algeria and Morocco, cool weather prevailed in the winter grain areas at higher elevations (minimum temperatures near or below freezing), slowing crop growth. Temperatures averaged near to slightly above normal across the remainder of the region.

SOUTH AFRICA

Widespread showers (10-85 mm) returned to the corn belt, benefiting reproductive corn and other summer crops. Similarly, widespread rainfall (10-85 mm) along coastal KwaZulu Natal and Eastern Cape helped sugarcane development. Temperatures in South Africa were generally seasonable, with maximum temperatures in the lower 30s degrees C favoring crop development.

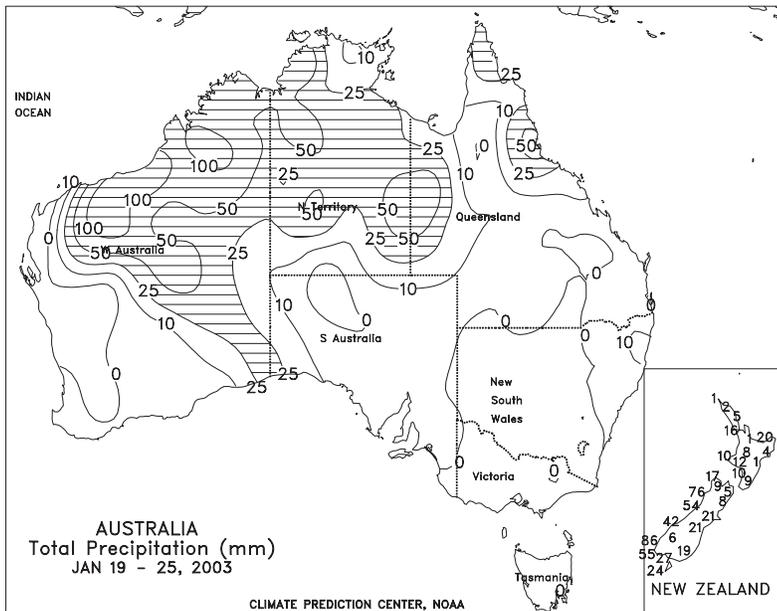


SOUTHEAST ASIA

Showers increased in Java, Indonesia, after two weeks of inconsistent rains. The showers (50-100 mm) boosted moisture supplies for reproductive main-season rice. Mostly dry weather prevailed throughout the Philippines as second-season rice neared maturity. Moisture supplies were somewhat limited during the reproductive phase of development for second-season rice in the Philippines. Seasonably dry weather prevailed throughout Indochina. While irrigation supplies remained adequate for vegetative to reproductive rice, warm temperatures (1-3 degrees above normal) increased crop-water usage. Showers (50-100 mm) maintained moisture supplies for oil palm in peninsular Malaysia and Sumatra.

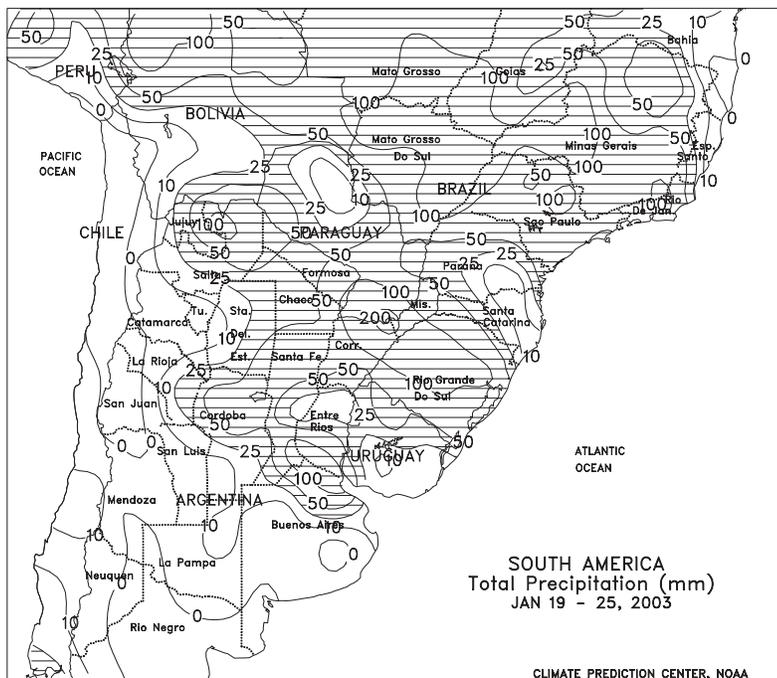
EASTERN ASIA

Dry, warmer-than-normal weather continued to favor overwintering wheat on the North China Plain. Temperatures in the main winter wheat areas averaged 1 to 3 degrees C above normal, with lows generally staying above -10 degrees C, reducing the potential for winter kill in areas lacking a protective snow cover. In southern China, moderate rain (10-50 mm) increased long-term interior moisture reserves, although showers were generally light and scattered in the main coastal sugarcane areas, likely causing no significant delays in seasonal fieldwork. Elsewhere, mostly dry, warmer-than-normal weather maintained generally favorable conditions for overwintering wheat on the Korean Peninsula, with snow cover offering some protection from the lowest temperatures (lows below -15 degrees C). In Japan, showers (10-25 mm or more) increased irrigation reserves on Honshu, the southern islands, and western sections of Hokkaido.



AUSTRALIA

Light showers (2-16 mm) fell across parts of Queensland and northern New South Wales, providing limited drought relief. The rainfall helped stabilize reservoir levels for irrigated summer crops and moisten topsoils for dryland cotton and sorghum, but crop conditions likely remained poor in most areas because of the extended drought. Farther south, extreme drought continued to grip southern New South Wales, Victoria, and South Australia, with scattered showers (1-3 mm) confined to the latter region. These showers were much too light, however, to significantly improve moisture supplies for future winter grain planting. Similarly, mostly dry (less than 2 mm) weather dominated Western Australia, maintaining drought in major winter grain producing areas. Temperatures in Australia averaged about 2 to 5 degrees C above normal, with maximum temperatures in the upper 30s to lower 40s degrees C.



SOUTH AMERICA

In Argentina, warm, showery weather maintained mostly favorable conditions for vegetative to reproductive crops. The showers ended a brief dry spell in primary growing areas (Cordoba and Santa Fe to northern Buenos Aires). In contrast, southern growing areas of Buenos Aires were mostly dry following last week's beneficial showers. Wet weather (25-50 mm or more) continued in cotton areas of Chaco and Formosa. Temperatures averaged near to slightly below normal throughout Argentina, but highs still reached the lower to middle 30s degrees C, boosting growth rates of corn, soybeans, and sunflowers. In Brazil, heavy rain (50-100 mm or more) returned to Rio Grande do Sul, keeping corn and soybeans well watered. Similarly, abundant rainfall (50-100 mm or more) continued from Sao Paulo and Mato Grosso do Sul northward, maintaining adequate to excessive moisture levels for summer crop development. Throughout Brazil, temperatures averaged near to slightly above normal, with highs in the lower to middle 30s degrees C.

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