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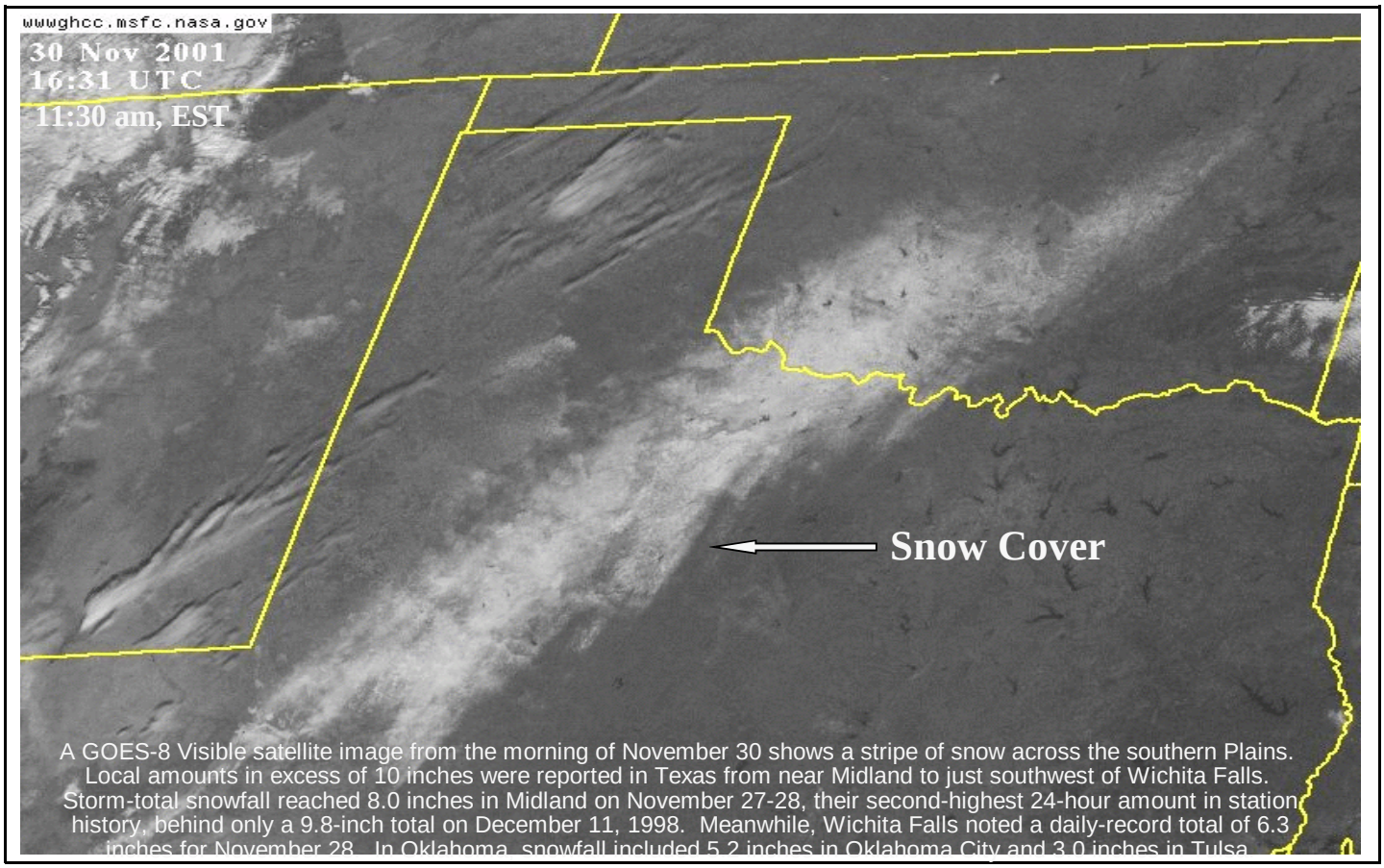
WEEKLY WEATHER AND CROP BULLETIN

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



A GOES-8 Visible satellite image from the morning of November 30 shows a stripe of snow across the southern Plains. Local amounts in excess of 10 inches were reported in Texas from near Midland to just southwest of Wichita Falls. Storm-total snowfall reached 8.0 inches in Midland on November 27-28, their second-highest 24-hour amount in station history, behind only a 9.8-inch total on December 11, 1998. Meanwhile, Wichita Falls noted a daily-record total of 6.3 inches for November 28. In Oklahoma, snowfall included 5.2 inches in Oklahoma City and 3.0 inches in Tulsa.

HIGHLIGHTS

November 25 - December 1, 2001

Highlights provided by USDA/WAOB

Heavy rainfall, totaling 4 to 15 inches, halted fieldwork and caused flooding from the **western Gulf Coast region to the lower Ohio Valley**, including the **Delta**. In contrast, dryness intensified across the **Southeast**, hampering the development of drought-stressed winter grains and bringing a renewed threat of wildfire activity. In addition, **Southeastern** temperatures averaged 10 to nearly 20°F above normal. Meanwhile in the **Corn Belt**, conditions ranged from mild and wet in eastern portions of the region to cold and snowy across northwestern areas. Widespread **Midwestern** precipitation halted autumn fieldwork, including final summer crop

(Continued on page 3)

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Weather Data for Selected Locations in the Delta and the Bootheel

Weather Data for the Week Ending December 1, 2001

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	62	44	76	36	53	5	15.45	14.14	8.50	0.00	0	55.89	115	--	--	0	0	5	4
	BELZONI x	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	CLARKSDALE x	62	41	75	37	52	1	6.44	5.25	6.00	0.00	0	--	--	--	--	0	0	4	1
	CLEVELAND x	60	41	76	37	51	0	7.20	6.15	3.20	0.00	0	57.88	133	--	--	0	0	5	3
	GREENVILLE x	61	43	76	37	52	1	11.15	9.67	6.25	0.00	0	57.75	126	--	--	0	0	4	4
	GREENWOOD x	66	44	78	36	55	4	7.60	6.34	3.52	0.00	0	56.21	123	--	--	0	0	3	3
	INDIANOLA 1S	62	43	75	38	53	--	9.35	--	3.18	0.00	--	59.44	--	58	52	0	0	4	4
	INVERNESS 5E	64	45	76	39	55	--	9.33	--	4.13	0.00	--	52.84	--	60	54	0	0	3	3
	LYON	59	41	72	37	50	--	11.00	--	4.53	0.00	--	65.08	--	58	50	0	0	4	4
	MOORHEAD x	64	45	77	39	55	4	9.31	7.98	4.02	0.00	0	51.96	111	--	--	0	0	3	3
	ONWARD	64	43	77	38	54	--	9.36	--	3.75	0.00	--	49.28	--	59	54	0	0	3	3
	ROLLING FORK x	64	44	79	38	54	3	6.91	5.58	3.76	0.00	0	43.95	95	--	--	0	0	4	4
	SCOTT	60	42	74	37	51	--	7.78	--	2.71	0.00	--	--	--	58	49	0	0	4	4
	SIDON	66	45	77	40	56	--	6.77	--	3.34	0.00	--	45.85	--	62	52	0	0	4	3
	TUNICA x	59	43	72	38	51	3	10.42	9.20	6.80	0.00	0	49.56	109	--	--	0	0	5	3
	TUNICA 1W	59	40	72	36	50	--	9.33	--	4.91	0.00	--	48.48	--	56	49	0	0	4	3
	VANCE	63	43	75	37	53	--	10.59	--	5.24	0.00	--	--	--	59	53	0	0	4	4
	VICKSBURG x	66	46	74	38	56	2	10.25	9.04	4.85	0.00	0	67.03	137	--	--	0	0	5	5
	YAZOO CITY x	67	44	78	37	56	4	6.61	5.26	2.92	0.00	0	55.91	114	--	--	0	0	4	4
	STONEVILLE *	61	43	76	37	52	3	11.19	9.69	6.44	0.00	0	61.63	132	60	52	0	0	4	4
MO	CARDWELL	55	38	66	32	46	2	4.32	2.84	2.44	0.00	0	36.22	76	54	49	0	1	3	3
	CHARLESTON	54	39	64	33	46	3	4.71	3.32	1.99	0.00	0	35.37	79	52	45	0	0	3	3
	CLARKTON	54	38	64	31	46	3	4.66	3.48	2.52	0.00	0	38.72	92	--	--	0	1	4	3
	DELTA	52	36	63	29	45	2	3.05	1.52	1.20	0.00	0	31.79	67	49	43	0	1	3	3
	GLENNONVILLE	53	39	64	32	46	3	4.59	3.41	2.16	0.00	0	34.43	82	52	47	0	1	4	3
	PORTAGEVILLE #1	55	41	66	34	47	3	4.14	2.76	1.97	0.00	0	39.21	84	53	46	0	0	4	3
	PORTAGEVILLE #2	56	40	67	35	47	3	4.09	2.71	2.18	0.00	0	35.27	76	53	47	0	0	3	2
	STEELE	55	41	67	35	47	3	3.83	2.33	2.14	0.00	0	42.13	88	53	47	0	0	3	2

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: Torrential rains plagued the Delta for the majority of the week. A stalled frontal boundary helped to produce the heavy rainfall. Some winter wheat was damaged due to flooding, but the extent of damage was not yet known. Fieldwork ceased due to the excessive wetness.

November Temperature Records

Highest November Average Temperature (ºF)

Location	Average	Departure	Previous Record/Year
Phoenix, AZ	68.4	+ 6.5	68.0 in 1999
Jackson, KY	54.9	+ 7.2	54.4 in 1985
Washington, DC	54.8	+ 5.0	54.4 in 1975 and 1979
Central Park, NY	52.7	+ 5.1	52.5 in 1979
Burlington, IA	50.3	+ 9.7	49.4 in 1931
Des Moines, IA	49.8	+10.8	47.4 in 1999
Moline, IL	49.8	+10.2	47.4 in 1931
South Bend, IN	48.5	+ 7.6	48.1 in 1975
Waterloo, IA	47.9	+12.2	43.7 in 1931
Cedar Rapids, IA	47.8	+10.3	47.2 in 1899
Youngstown, OH	47.7	+ 6.7	46.2 in 1975
Mansfield, OH	47.6	+ 6.0	46.2 in 1994
LaCrosse, WI	47.5	+11.9	43.2 in 1931
Milwaukee, WI	47.4	+10.1	47.1 in 1931
Grand Island, NE	46.8	+ 9.2	46.2 in 1917
Dubuque, IA	46.6	+10.3	45.9 in 1931
Lansing, MI	46.3	+ 8.0	45.6 in 1931
Rochester, MN	45.4	+12.8	40.4 in 1913
Mason City, IA	45.4	+11.4	41.5 in 1913 and 1999
Madison, WI	46.0	+10.9	44.8 in 1931
Green Bay, WI	43.4	+ 9.0	43.2 in 1931
Alpena, MI	42.8	+ 7.1	41.4 in 1948
Houghton Lake, MI	42.2	+ 7.0	41.5 in 1963
Wausau, WI	42.0	+ 9.5	40.4 in 1999
Iron Mountain, MI	41.1	+ 9.0	38.5 in 1999
Ironwood, MI	40.9	+10.7	38.8 in 1931
Marquette, MI	39.9	+10.4	37.2 in 1999
Fargo, ND	39.7	+11.0	37.9 in 1899
Grand Forks, ND	36.5	+ 9.4	36.0 in 1981

(Continued from front cover)
harvesting, but recharged soil moisture reserves across the previously dry **northwestern Corn Belt**. On the **Plains**, significant snow fell across much of **South Dakota** and **Nebraska** on November 26-27 and the **southern Plains** on November 27-28. The snow boosted soil moisture and insulated winter wheat against sharply colder weather (weekly temperatures ranged from 4 to 14ºF below normal), but largely bypassed the drought-stricken **northern High Plains**. In addition, unfavorably dry pockets persisted in parts of **Oklahoma** and **southern Kansas**. Farther west, heavy precipitation continued to ease long-term drought and boost high-elevation snow packs across **northern California**, the **Great Basin**, and the **Northwest**. Despite the promising start to the **Western** wet season, reservoirs in most drought-affected areas will need several more months of heavy rain and snow to ensure full recovery from the 20-month precipitation deficit.

Record warmth prevailed throughout the week in the **East**, resulting in at least six dozen daily-record highs. On November 27, **Augusta, GA**, posted a record high of 83ºF. A day later, **Raleigh-Durham, NC**, notched their first of two daily records (81 and 77ºF). At week's end, December opened with record warmth in more than 20 locations, including **Richmond, VA** (74ºF), **Philadelphia, PA** (72ºF), and **Portland, ME** (66ºF). **Maine's** warm spell followed a period of wintry weather across the northern part of the State that produced 8.2 inches of snow in **Caribou** from November 27-30. Farther west, cold weather briefly visited the **Plains**. On November 28, lows in **Nebraska** included -2ºF in **North Platte** and -4ºF in **Scottsbluff**. Lows in **Wyoming** fell to -13ºF in **Rawlins** and -15ºF in **Laramie**. A day later, **Midland, TX**, noted 11ºF, a record for November 29.

Late-month snow storms blanketed the **northern Plains** and **upper Midwest** on November 26-27 and the **southern Plains** on November 27-28. The first storm left 30.4 inches of snow in **Willmar, MN**, just shy of the station's storm-total snowfall record of 30.7 inches, set from November 29 - December 2, 1985. Elsewhere in the **upper Midwest**, late-November snowfall included 15.0 inches in **Mitchell, SD**, and 11.8 inches in **St. Cloud, MN**. Heavy snow also fell in the **upper Great Lakes region**, where **Marquette, MI**, netted 33.1 inches. **Marquette's** total included 19.2 inches on November 27, their highest calendar-day snowfall on record during November. Despite the late-month snow, temperatures remained above normal in most **upper Midwestern and Great Lakes** locations. For example, December 1 marked the 35th consecutive day (starting October 28) with above-normal temperatures in **Minneapolis, MN**. Farther to the south and east, November ended as it began, mild and snowless. In **southeastern Minnesota**, **Rochester** concluded their first autumn (September-November) on record without a measurable snowfall. Previously, **Rochester's** latest first measurable snowfall was observed on November 29, 1960. Meanwhile, **Buffalo, NY**, ended November without even a trace of snow, breaking their record of a trace set in 1899, 1918, and 1946. Just last year, a record 45.6 inches of snow buried **Buffalo** during November.

A second storm developed across the **southern Plains** on November 27-28, producing local snowfall totals in excess of 10 inches in **Texas** from near **Midland** to just southwest of **Wichita Falls**. **Midland's** snowfall reached 8.0 inches, their second-highest 24-hour amount on record, behind a 9.8-inch total on December 11, 1998. Elsewhere, storm-total snowfall reached 6.3 inches in **Wichita Falls** and 5.2 inches in **Oklahoma City, OK**. Farther east, both storms contributed to torrential rainfall from **eastern Texas to southern Indiana**. In **Mississippi**, **Stoneville** experienced their wettest 3-day (10.14 inches from November 27-29) and 4-day (11.19 inches from November 27-30) periods on record, surpassing the marks of 10.03 and 10.04 inches, established from April 27-29 and 27-30, 1991. In **western Tennessee**, **Memphis** received 5.86 inches on November 28, their sixth-highest daily amount on record, and a November 28-29 total of 8.35 inches. In **eastern Texas**, **Houston** netted a 24-hour total of 1.83 inches on November 27-28, propelling the city to its wettest year (65.01 inches, or 153 percent of normal, through November) since 70.16 inches fell in 1963.

In the **West**, a series of storm systems produced heavy precipitation and high winds. On November 25, winds in **Arizona** gusted to 60 mph in **St. Johns** and **Show Low**, a day after gusts reached 55 mph at the airport in **San Francisco, CA**. Another powerful storm reached the **Pacific Coast** on November 28-29, producing wind gusts in **western Oregon** to 82 mph in **Newport** and 78 mph in **Florence**. Farther south, gusts reached 55 mph in **Oroville, CA**, and 45 mph in **San Francisco**. A third storm reached the **West Coast** at week's end, bringing additional precipitation and gusty winds. In **Olympia, WA**, November precipitation totaled 13.34 inches (166 percent of normal), while **Astoria, OR**, netted 14.21 inches (141 percent). According to the California Department of Water Resources, the water equivalent of the high-elevation **Sierra Nevada** snow pack increased to 5 inches (99 percent of normal) on December 1, up from a trace on November 12.

A sprawling storm system produced widespread, drought-easing rainfall across **Hawaii** in late November. The heavy rain, which also caused some flash flooding, tapered to generally light showers thereafter. But during a 48-hour period from November 26-28, rainfall on the **Big Island** totaled 22.48 inches at **Kapapala Ranch**, 18.93 inches in **Pahala**, and 16.31 inches in **Glenwood**. Maximum reported 48-hour totals on other islands included 8.83 inches in **Kokee, Kauai**; 6.05 inches in **Maunawili, Oahu**; 6.61 inches in **Mahinahina, Maui**; and 5.33 inches in **Lanai City, Lanai**. Elsewhere on **Oahu**, **Honolulu** netted 3.24 inches on November 27, exceeding every monthly rainfall in Hawaiian capital since 4.90 inches fell during all of March 1997. High winds accompanied Hawaii's storm, including a peak gust to 43 mph in Lihue, Kauai. Meanwhile in **Alaska**, mostly dry weather accompanied temperatures that ranged from as much as 15ºF below normal across the interior to 7ºF above normal in northwestern portions of the State. **Fairbanks** closed the month with a precipitation total of 0.06 inch (8 percent of normal), their lowest November total since a trace was observed in 1953. Farther south, the low temperature in **Anchorage** fell to -6ºF on December 1, ending their record-setting streak with low temperatures at or above 0ºF at 682 days (January 18, 2000 - November 30, 2001).

November Precipitation Records

Record-High November Precipitation (Inches)

Location	Total	Normal	Previous Record/Year
Austin (Mabry), TX	10.00	2.37	7.99 in 1907
Sioux Falls, SD	4.76	1.09	3.66 in 1919
Lubbock, TX	3.45	0.75	2.67 in 1968
Salt Lake City, UT	3.34	1.29	2.96 in 1994

Wettest November (Inches) in Selected Locations Since...

Location	Total	Normal	Wettest November Since..
Memphis, TN	11.61	5.10	13.21 in 1934
Corpus Christi, TX	7.44	1.59	8.53 in 1947
Jackson, TN	10.31	4.79	11.21 in 1948
San Angelo, TX	3.46	1.08	3.55 in 1968
Abilene, TX	3.39	1.48	4.60 in 1968
Austin (Bergstrom), TX	10.51	2.89	12.49 in 1974
Stoneville, MS	11.74	5.31	12.98 in 1986

Record-Low November Precipitation (Inches)

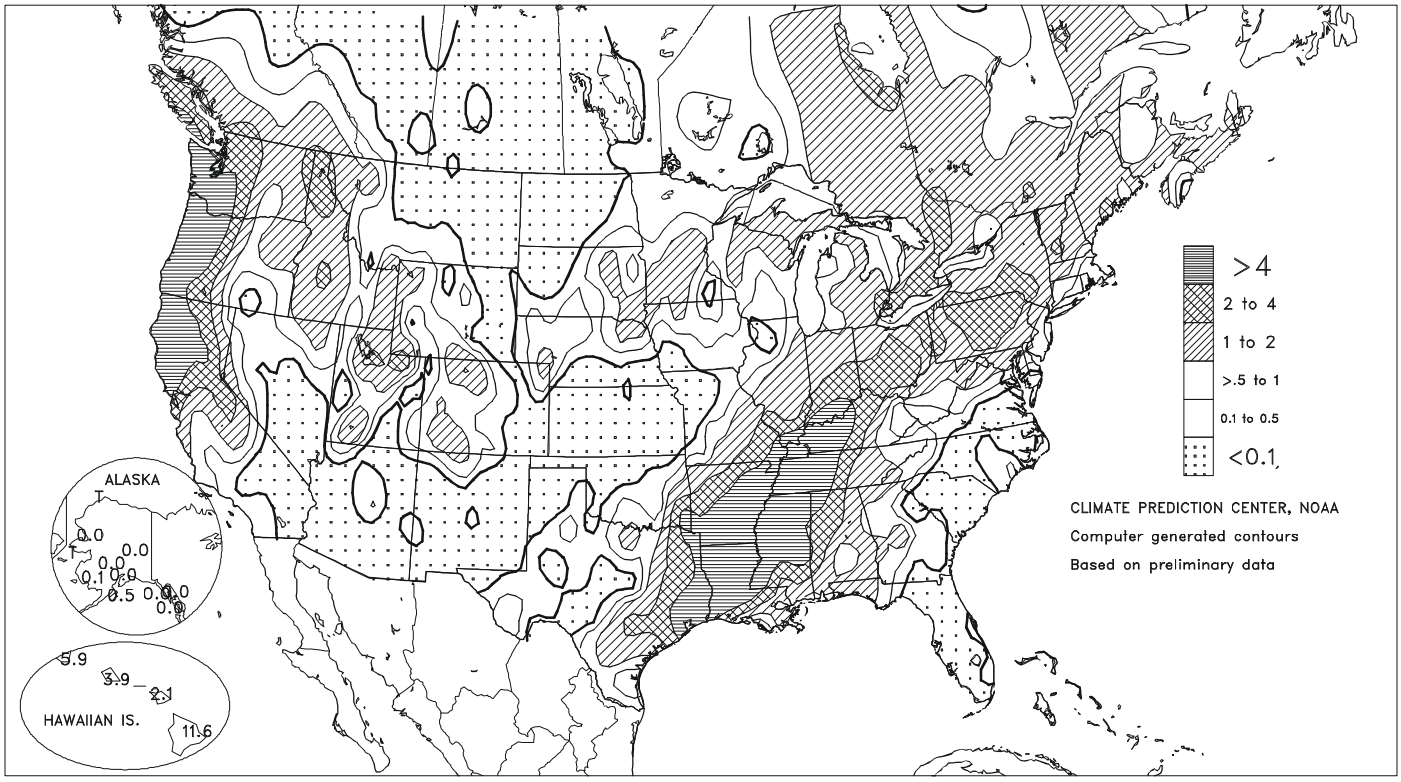
Location	Total	Normal	Previous Record/Year
Beckley, WV	0.66	2.99	0.95 in 1914 and 1946
Blacksburg, VA	0.41	2.83	0.49 in 1982
Greensboro, NC	0.34	2.97	0.35 in 1981
Providence, RI	0.31	4.43	0.31 in 1917
Norfolk, VA	0.08	2.85	0.20 in 1919

Driest November (Inches) in Selected Locations Since...

Location	Total	Normal	Driest November Since...
Richmond, VA	0.17	3.17	0.11 in 1890
Elkins, WV	0.86	3.33	0.73 in 1914
Fairbanks, AK	0.06	0.80	trace in 1953
Atlanta, GA	0.93	3.86	0.89 in 1960
Great Falls, MT	0.14	0.66	0.11 in 1969
Boston, MA	0.73	4.22	0.64 in 1976
Worcester, MA	0.70	4.32	0.67 in 1976
Philadelphia, PA	0.56	3.34	0.32 in 1976
Tampa, FL	0.10	1.77	0.01 in 1978
Washington, DC	0.55	3.12	0.29 in 1981
Baltimore, MD	1.01	3.32	0.31 in 1981
Havre, MT	0.04	0.38	0.03 in 1987

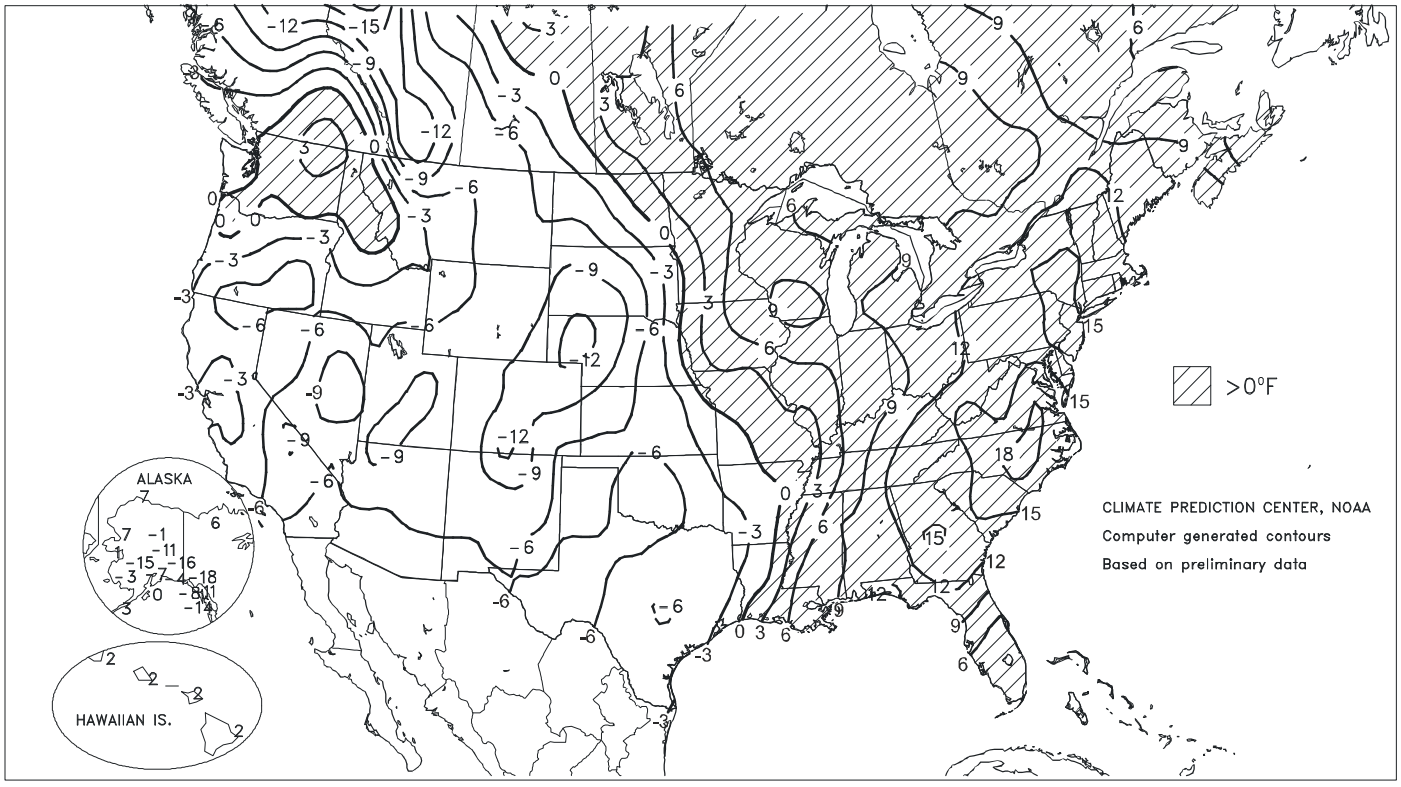
Total Precipitation (Inches)

NOV 25 - DEC 1, 2001



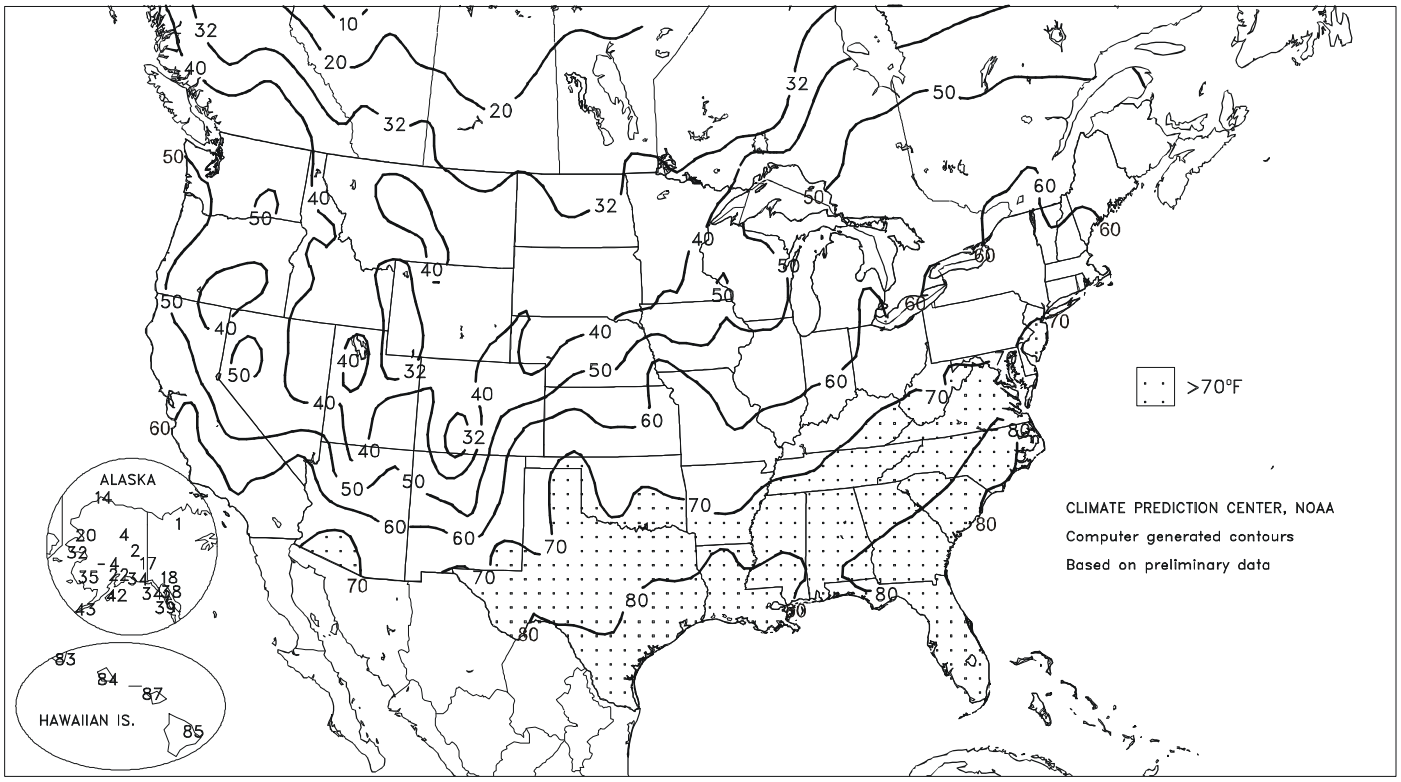
Departure of Average Temperature from Normal (°F)

NOV 25 - DEC 1, 2001



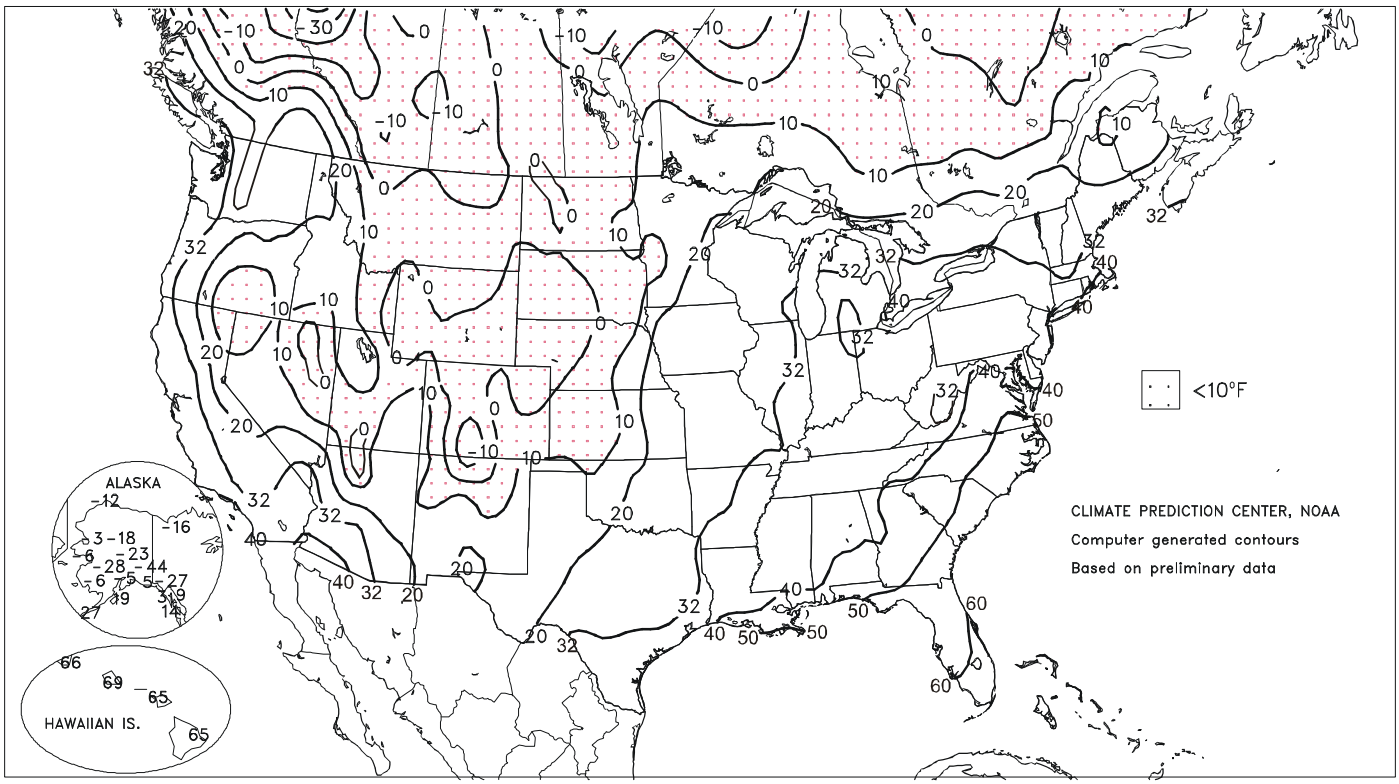
Extreme Maximum Temperature (°F)

NOV 25 - DEC 1, 2001



Extreme Minimum Temperature (°F)

NOV 25 - DEC 1, 2001



National Weather Data for Selected Cities

Weather Data for the Week Ending December 1, 2001

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	70	50	77	37	60	11	1.89	0.76	1.28	0.00	0	62.17	125	97	58	0	0	3	2
	HUNTSVILLE	67	48	74	35	57	9	1.63	0.35	1.15	0.00	0	57.34	111	97	69	0	0	3	1
	MOBILE	75	57	80	41	66	9	0.69	-0.42	0.56	0.00	0	51.86	88	97	66	0	0	3	1
	MONTGOMERY	74	51	80	37	62	9	1.23	0.12	0.79	0.01	6	44.40	92	10	59	0	0	3	1
AK	ANCHORAGE	18	5	22	-5	12	-6	0.00	-0.22	0.00	0.00	0	13.48	91	86	68	0	7	0	0
	BARROW	6	-5	14	-12	0	7	0.01	-0.04	0.01	0.01	100	4.99	115	87	82	0	7	1	0
	FAIRBANKS	-9	-19	2	-23	-14	-11	0.00	-0.19	0.00	0.00	0	8.21	82	76	73	0	7	0	0
	JUNEAU	23	13	38	9	18	-11	0.00	-0.98	0.00	0.00	0	54.73	109	53	42	0	7	0	0
	KODIAK	37	28	42	19	33	1	0.45	-0.94	0.22	0.00	0	67.48	111	90	82	0	5	4	0
	NOME	20	4	32	-6	12	0	0.01	-0.21	0.01	0.00	0	12.71	90	78	66	0	7	1	0
AZ	FLAGSTAFF	34	17	42	13	26	-7	0.42	-0.09	0.20	0.00	0	16.65	81	87	41	0	7	3	0
	PHOENIX	64	47	70	41	55	-3	0.00	-0.19	0.00	0.00	0	5.87	88	50	32	0	0	0	0
	TUCSON	61	39	70	29	50	-5	0.00	-0.18	0.00	0.00	0	7.24	66	49	29	0	2	0	0
	YUMA	65	48	68	42	57	-3	0.00	-0.07	0.00	0.00	0	3.31	121	47	37	0	0	0	0
AR	FORT SMITH	56	36	71	31	46	0	0.94	0.06	0.31	0.00	0	35.10	92	95	56	0	1	4	0
	LITTLE ROCK	56	37	68	32	46	-2	4.42	3.16	2.78	0.00	0	41.31	89	99	62	0	1	4	2
CA	BAKERSFIELD	56	41	59	34	48	-3	0.19	0.03	0.17	0.01	50	6.16	121	94	76	0	0	3	0
	FRESNO	54	40	58	35	47	-2	0.38	0.03	0.25	0.12	300	10.29	112	94	78	0	0	3	0
	LOS ANGELES	62	47	64	44	54	-5	0.30	-0.15	0.30	0.00	0	18.37	176	72	44	0	0	1	0
	REDDING	50	39	55	36	45	-3	2.72	1.39	1.33	1.33	782	28.35	101	92	76	0	0	4	2
	SACRAMENTO	54	43	57	35	48	-1	1.12	0.46	0.69	0.69	863	15.71	104	94	61	0	0	3	1
	SAN DIEGO	62	50	64	44	56	-4	0.12	-0.26	0.12	0.00	0	7.69	92	75	46	0	0	1	0
	SAN FRANCISCO	56	47	58	44	52	0	2.41	1.69	1.19	1.19	1322	18.87	113	90	72	0	0	4	2
	STOCKTON	55	40	57	33	47	-2	0.71	0.17	0.38	0.38	543	10.88	91	94	79	0	0	5	0
CO	ALAMOSA	28	-5	34	-15	11	-13	0.06	-0.03	0.06	0.00	0	9.75	136	87	67	0	7	1	0
	CO SPRINGS	36	14	48	3	26	-8	0.07	-0.04	0.04	0.00	0	14.86	94	83	41	0	7	2	0
	DENVER INTL	32	11	42	-2	21	***	0.13	***	0.10	0.00	***	15.20	***	85	58	0	7	2	0
	GRAND JUNCTION	37	24	44	16	31	-4	0.55	0.41	0.28	0.00	0	8.13	101	87	67	0	7	2	0
	PUEBLO	44	14	53	2	29	-7	0.05	-0.06	0.05	0.00	0	11.45	106	77	45	0	7	1	0
CT	BRIDGEPORT	60	47	65	44	54	13	0.47	-0.42	0.38	0.01	8	33.34	87	98	74	0	0	6	0
	HARTFORD	60	40	70	32	50	13	0.50	-0.46	0.36	0.01	8	31.66	78	99	72	0	1	7	0
DC	WASHINGTON	67	54	72	45	61	16	0.39	-0.35	0.38	0.00	0	28.52	80	98	62	0	0	2	0
DE	WILMINGTON	65	50	73	41	58	16	0.80	0.00	0.76	0.00	0	31.92	85	10	66	0	0	4	1
FL	DAYTONA BEACH	79	60	80	57	70	7	0.02	-0.58	0.01	0.00	0	57.96	128	10	59	0	0	2	0
	JACKSONVILLE	80	59	81	54	70	11	0.01	-0.53	0.01	0.00	0	46.11	95	10	58	0	0	1	0
	KEY WEST	80	71	81	69	76	2	0.05	-0.49	0.05	0.00	0	43.96	117	83	65	0	0	1	0
	MIAMI	81	68	82	66	75	3	0.01	-0.44	0.01	0.01	17	68.84	127	90	59	0	0	1	0
	ORLANDO	81	60	82	57	71	6	0.00	-0.54	0.00	0.00	0	54.85	119	10	57	0	0	0	0
	PENSACOLA	74	60	79	46	67	10	0.52	-0.33	0.51	0.01	8	45.12	78	89	67	0	1	2	1
	TALLAHASSEE	76	57	81	49	67	10	0.43	-0.62	0.28	0.01	7	62.77	103	99	68	0	0	4	0
	TAMPA	83	65	85	60	74	9	0.00	-0.46	0.00	0.00	0	38.88	93	97	56	0	0	0	0
	WEST PALM	80	69	81	64	75	5	0.05	-0.80	0.05	0.05	50	64.03	110	81	59	0	0	1	0
GA	ATHENS	74	52	77	43	63	13	0.06	-0.83	0.04	0.00	0	38.22	83	98	62	0	0	3	0
	ATLANTA	72	53	76	43	63	14	0.45	-0.51	0.28	0.00	0	36.57	79	97	61	0	0	4	0
	AUGUSTA	78	55	83	44	66	15	0.27	-0.36	0.01	0.01	11	32.71	79	98	67	0	0	5	0
	COLUMBUS	76	56	81	44	66	13	0.99	-0.01	0.59	0.01	7	36.80	80	96	52	0	0	5	1
	MACON	77	54	80	42	65	12	2.07	1.29	2.01	0.01	8	45.73	113	98	54	0	0	6	1
	SAVANNAH	80	59	83	52	69	13	0.00	-0.57	0.00	0.00	0	31.02	67	99	64	0	0	0	0
HI	HILO	81	69	85	65	75	2	11.58	8.19	6.32	0.43	98	99.43	85	94	82	0	0	6	3
	HONOLULU	83	73	84	69	78	2	3.89	3.11	3.60	0.00	0	8.44	46	88	77	0	0	3	1
	KAHULUI	84	69	87	65	77	2	2.12	1.43	1.23	0.01	11	6.59	37	90	76	0	0	4	2
	LIHUE	80	72	83	66	76	2	5.86	4.61	5.44	0.32	188	28.47	75	88	78	0	0	3	1
ID	BOISE	38	28	44	20	33	-2	0.47	0.12	0.17	0.00	0	7.38	68	86	73	0	5	3	0
	LEWISTON	43	32	51	28	38	0	0.38	0.10	0.24	0.00	0	10.30	91	88	75	0	4	4	0
	POCATELLO	32	20	36	7	26	-4	0.11	-0.16	0.06	0.06	150	6.10	55	88	76	0	7	4	0
IL	CHICAGO/O'HARE	47	37	52	30	42	8	0.62	-0.06	0.25	0.00	0	44.80	134	96	80	0	1	5	0
	MOLINE	45	34	52	28	40	7	0.25	-0.31	0.17	0.00	0	39.32	106	93	81	0	1	3	0
	PEORIA	47	36	57	32	42	7	0.46	-0.17	0.13	0.00	0	36.46	108	10	80	0	1	5	0
	ROCKFORD	45	36	50	28	40	8	0.31	-0.25	0.17	0.00	0	36.16	105	92	83	0	1	5	0
	SPRINGFIELD	48	35	56	32	41	4	0.63	0.01	0.32	0.00	0	32.94	101	93	80	0	2	4	0
IN	EVANSVILLE	57	39	63	36	48	7	3.96	3.05	1.56	0.00	0	42.81	108	93	71	0	0	5	3
	FORT WAYNE	50	38	57	31	44	8	1.49	0.80	0.74	0.00	0	41.16	129	99	86	0	1	5	1
	INDIANAPOLIS	54	39	59	36	46	8	1.80	1.00	0.64	0.00	0	38.94	106	95	76	0	0	5	2
	SOUTH BEND	49	39	56	33	44	8	1.12	0.32	0.69	0.00	0	37.58	105	92	79	0	0	5	1
IA	BURLINGTON	45	34	52	30	40	6	0.16	-0.35	0.08	0.00	0	37.69	110	94	75	0	3	3	0
	CEDAR RAPIDS	44	34	51	30	39	8	0.32	-0.12	0.24	0.00	0	34.71	108	94	78	0	3	4	0
	DES MOINES	41	32	49	28	36	4	0.33	-0.03	0.32	0.00	0	27.34	86	89	78	0	5	2	0
	DUBUQUE	42	33	49	29	38	8	0.33	-0.26	0.19	0.00	0	33.56	92	96	86	0	3	6	0
	SIOUX CITY	36	25	46	18	30	1	0.65	0.45	0.57	0.00	0	30.13	120	92	83	0	5	2	1
	WATERLOO	43	34	50	32	38	9	0.25	-0.12	0.18	0.00	0	34.09	105	96	87	0	3	4	0
KS	CONCORDIA	41	22	54	12	32	-4	0.00	-0.22	0.00	0.00	0	27.17	97	81	65	0	7	0	0
	DODGE CITY	47	17	70	7	32	-6	0.00	-0.17	0.00	0.00	0	18.31	88	80	32	0	7	0	0
	GOODLAND	40	12	52	3	26	-8	0.03	-0.10	0.03	0.00	0	16.42	92	85	55	0	7	1	0
	TOPEKA	46	28	63	23	37	0	0.00	-0.38	0.00	0.00	0	42.57	126	80	63	0	5	0	0

Based on 1961-90 normals

***** Not Available**

Weather Data for the Week Ending December 1, 2001

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	25	63	19	36	-3	0.00	-0.33	0.00	0.00	0	24.40	87	79	54	0	7	0	0
KY	JACKSON	67	49	73	40	58	14	0.62	-0.42	0.31	0.00	0	32.59	72	93	54	0	0	4	0
	LEXINGTON	60	43	67	34	51	9	2.31	1.42	1.08	0.00	0	37.48	92	91	72	0	0	4	2
	LOUISVILLE	60	42	66	38	51	8	4.22	3.31	2.08	0.00	0	41.42	101	99	74	0	0	4	3
	PADUCAH	55	38	67	31	46	3	5.64	4.53	2.12	0.00	0	46.07	103	10	69	0	1	4	3
LA	BATON ROUGE	76	52	84	37	64	7	0.51	-0.64	0.45	0.00	0	58.11	105	98	53	0	0	2	0
	LAKE CHARLES	70	48	81	36	59	2	2.92	1.84	1.63	0.00	0	51.70	104	94	64	0	0	4	3
	NEW ORLEANS	74	56	81	42	65	7	0.67	-0.54	0.56	0.00	0	66.62	118	92	68	0	0	3	1
	SHREVEPORT	62	39	79	34	51	-2	3.91	2.87	1.59	0.00	0	53.26	126	96	62	0	0	4	3
ME	CARIBOU	41	26	53	8	34	10	1.18	0.36	0.51	0.01	9	28.31	85	97	78	0	5	7	1
	PORTLAND	50	39	66	30	45	11	0.81	-0.40	0.26	0.03	19	30.98	78	99	78	0	1	6	0
MD	BALTIMORE	65	49	73	37	57	15	0.83	0.03	0.79	0.01	9	32.61	87	99	73	0	0	3	1
MA	BOSTON	61	45	71	40	53	13	0.25	-0.76	0.09	0.00	0	28.57	76	96	67	0	0	5	0
	WORCESTER	56	41	64	32	49	15	0.71	-0.31	0.46	0.00	0	30.53	70	99	73	0	1	5	0
MI	ALPENA	43	35	57	29	39	8	1.06	0.54	0.32	0.00	0	25.69	96	96	83	0	2	6	0
	GRAND RAPIDS	47	39	56	35	43	10	0.92	0.14	0.44	0.00	0	38.17	115	97	82	0	0	5	0
	HOUGHTON LAKE	42	34	53	30	38	8	0.97	0.45	0.32	0.00	0	27.77	105	93	87	0	3	4	0
	LANSING	48	39	57	34	44	11	1.05	0.42	0.55	0.03	38	30.81	109	90	75	0	0	6	1
	MUSKEGON	47	39	54	36	43	8	0.73	-0.01	0.39	0.00	0	33.61	113	94	80	0	0	5	0
	TRAVERSE CITY	42	34	54	30	38	6	0.55	0.01	0.20	0.08	114	29.64	107	10	82	0	3	5	0
MN	DULUTH	30	24	40	20	27	6	0.16	-0.20	0.10	0.00	0	28.88	100	96	89	0	7	2	0
	INT'L FALLS	27	21	33	18	24	7	0.19	-0.03	0.09	0.01	33	27.32	116	91	81	0	7	4	0
	MINNEAPOLIS	35	30	43	27	33	7	0.48	0.18	0.20	0.00	0	33.23	122	92	81	0	7	5	0
	ROCHESTER	37	30	46	24	33	7	0.47	0.16	0.18	0.01	25	37.75	132	97	88	0	6	5	0
	ST. CLOUD	31	25	37	13	28	5	0.87	0.64	0.64	0.00	0	28.28	106	96	80	0	7	3	1
MS	JACKSON	71	47	79	36	59	7	5.10	3.83	3.34	0.00	0	58.79	118	96	63	0	0	3	3
	MERIDIAN	71	48	79	35	60	8	5.97	4.73	4.92	0.00	0	63.71	125	99	82	0	0	4	2
	TUPELO	65	44	73	36	55	7	5.63	4.33	3.76	0.01	5	61.10	122	99	83	0	0	5	3
MO	COLUMBIA	47	36	59	30	42	3	0.38	-0.27	0.26	0.00	0	39.17	107	89	71	0	4	4	0
	KANSAS CITY	46	29	65	24	37	0	0.00	-0.39	0.00	0.00	0	52.77	146	83	61	0	5	0	0
	SAINT LOUIS	51	38	60	32	44	3	1.45	0.65	0.69	0.00	0	31.87	92	87	72	0	2	4	1
	SPRINGFIELD	49	31	65	26	40	-1	0.74	-0.12	0.35	0.00	0	41.78	104	88	64	0	5	3	0
MT	BILLINGS	28	17	40	10	23	-7	0.26	0.07	0.17	0.00	0	10.86	76	86	72	0	7	2	0
	BUTTE	29	11	34	-3	20	-2	0.13	0.02	0.11	0.02	100	10.56	90	88	57	0	7	2	0
	GLASGOW	22	7	31	0	15	-7	0.07	0.01	0.03	0.00	0	12.68	120	88	79	0	7	3	0
	GREAT FALLS	32	19	42	8	25	-4	0.14	-0.03	0.10	0.00	0	9.89	69	81	53	0	7	2	0
	HAVRE	26	8	42	-1	17	-6	0.00	-0.10	0.00	0.00	0	6.89	65	89	82	0	7	0	0
	KALISPELL	33	25	37	17	29	2	0.24	-0.12	0.16	0.01	20	11.97	81	85	66	0	7	3	0
	MISSOULA	36	24	42	12	30	2	0.15	-0.07	0.12	0.01	33	12.17	99	82	70	0	7	3	0
NE	GRAND ISLAND	35	20	50	11	28	-4	0.16	-0.06	0.08	0.00	0	23.06	95	94	75	0	6	2	0
	LINCOLN	40	26	58	20	33	0	0.08	-0.17	0.04	0.00	0	31.89	116	83	68	0	6	2	0
	NORFOLK	34	21	47	13	28	-2	0.51	0.32	0.43	0.00	0	27.48	112	91	79	0	6	2	0
	NORTH PLATTE	32	9	47	-2	20	-10	0.08	-0.06	0.05	0.00	0	23.56	125	96	71	0	7	2	0
	OMAHA	40	28	59	22	34	1	0.14	-0.16	0.14	0.00	0	27.79	96	87	75	0	5	1	0
	SCOTTSBLUFF	29	13	42	-4	21	-10	0.08	-0.06	0.04	0.00	0	13.02	88	85	68	0	7	3	0
	VALENTINE	27	10	36	-6	18	-10	0.17	0.06	0.14	0.00	0	19.93	111	89	78	0	7	2	0
NV	ELY	29	5	34	-6	17	-13	0.22	0.08	0.22	0.00	0	6.08	64	86	69	0	7	1	0
	LAS VEGAS	55	38	67	34	47	-3	0.00	-0.11	0.00	0.00	0	3.86	103	53	37	0	0	0	0
	RENO	44	28	53	22	36	0	0.00	-0.22	0.00	0.00	0	2.57	39	77	55	0	6	0	0
	WINNEMUCCA	37	23	44	14	30	-4	0.44	0.22	0.29	0.02	67	3.99	54	89	71	0	7	5	0
NH	CONCORD	54	36	65	30	45	13	0.88	0.04	0.35	0.04	36	29.10	87	10	69	0	1	6	0
NJ	NEWARK	65	50	71	44	58	16	0.58	-0.33	0.51	0.00	0	29.23	72	94	69	0	0	2	1
NM	ALBUQUERQUE	43	27	52	21	35	-5	0.00	-0.09	0.00	0.00	0	6.30	75	65	38	0	6	0	0
NY	ALBANY	57	43	64	33	50	16	1.10	0.35	0.39	0.00	0	26.80	80	97	75	0	0	6	0
	BINGHAMTON	54	43	60	36	48	15	1.41	0.65	0.79	0.00	0	32.07	94	97	82	0	0	4	1
	BUFFALO	54	41	65	38	48	12	1.55	0.62	0.58	0.01	8	28.75	82	95	79	0	0	7	1
	ROCHESTER	55	42	65	38	49	13	1.40	0.71	0.47	0.00	0	27.54	94	94	81	0	0	6	0
	SYRACUSE	57	45	67	38	51	16	1.38	0.53	0.40	0.00	0	32.18	90	94	73	0	0	6	0
NC	ASHEVILLE	70	44	72	38	57	13	0.32	-0.51	0.16	0.00	0	32.17	73	97	71	0	0	3	0
	CHARLOTTE	73	53	77	47	63	15	0.05	-0.72	0.05	0.00	0	24.28	61	10	64	0	0	1	0
	GREENSBORO	72	53	77	46	63	17	0.12	-0.58	0.10	0.00	0	27.74	70	10	64	0	0	3	0
	HATTERAS	71	62	73	55	66	13	0.18	-0.93	0.16	0.00	0	27.09	52	95	77	0	0	2	0
	RALEIGH	76	54	81	46	65	18	0.15	-0.56	0.12	0.01	10	32.99	86	98	70	0	0	4	0
	WILMINGTON	78	60	81	54	69	16	0.08	-0.71	0.07	0.00	0	36.70	72	98	63	0	0	2	0
ND	BISMARCK	24	12	33	0	18	-4	0.04	-0.07	0.02	0.00	0	21.24	142	85	78	0	7	3	0
	DICKINSON	23	10	42	3	17	-6	0.00	-0.08	0.00	0.00	0	18.39	117	92	73	0	7	0	0
	FARGO	27	20	33	17	24	4	0.04	-0.10	0.02	0.00	0	19.22	102	93	79	0	7	2	0
	GRAND FORKS	25	17	32	8	21	2	0.07	-0.07	0.06	0.00	0	21.07	119	94	77	0	7	2	0
	JAMESTOWN	24	16	33	11	20	-1	0.06	-0.05	0.06	0.00	0	20.17	123	95	77	0	7	1	0
	WILLISTON	23	10	36	6	17	-3	0.05	-0.06	0.03	0.00	0	13.15	100	87	75	0	7	2	0
OH	AKRON-CANTON	54	42	61	36	48	11	1.76	1.02	0.59	0.00	0	30.53	90	96	85	0	0	5	1
	CINCINNATI	57	39	64	34	48	8	2.72	1.91	0.96	0.00	0	42.52	111	90	79	0	0	5	3
	CLEVELAND	55	44	62	40	49	11	1.62	0.85	0.47	0.00	0	31.87	95	96	84	0	0	5	0
	COLUMBUS	57	43	63	36	50	12	2.85	2.07	1.48	0.00	0	33.93	96	93	78	0	0	6	1
	DAYTON	54	39	60	34	47	9	2.35	1.61	0.82	0.00	0	38.63	114	96	78	0	0	5	3
	MANSFIELD	53	40	60	34	46	10	1.68	0.83	0.60	0.00	0	31.14	85	97	75	0	0	5	2

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***** Not Available**

Weather Data for the Week Ending December 1, 2001

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	52	41	61	35	47	12	1.51	0.79	0.92	0.00	0	31.95	106	95	79	0	0	4	1
	YOUNGSTOWN	56	42	62	36	49	13	2.15	1.41	0.95	0.00	0	27.40	79	93	77	0	0	5	2
OK	OKLAHOMA CITY	48	28	70	21	38	-7	0.13	-0.24	0.07	0.00	0	28.00	87	85	53	0	4	2	0
	TULSA	51	31	69	27	41	-4	0.12	-0.53	0.10	0.00	0	26.93	70	85	61	0	5	3	0
OR	ASTORIA	50	40	54	37	45	0	6.16	3.63	2.01	1.19	350	50.77	90	94	83	0	0	7	3
	BURNS	33	11	37	1	22	-7	0.55	0.25	0.36	0.08	200	7.40	84	91	80	0	7	4	0
	EUGENE	48	39	51	34	44	1	4.47	2.33	1.51	1.20	429	23.14	56	93	86	0	0	7	3
	MEDFORD	46	34	51	30	40	-1	1.88	1.06	0.79	0.54	491	11.62	74	97	64	0	3	6	2
	PENDLETON	46	34	55	27	40	2	0.16	-0.25	0.12	0.00	0	9.76	93	78	61	0	3	2	0
	PORTLAND	48	40	52	37	44	1	4.00	2.59	1.34	1.05	525	25.31	83	95	80	0	0	6	3
	SALEM	48	40	51	33	44	2	4.79	3.16	1.45	1.45	659	27.46	84	95	85	0	0	7	3
PA	ALLENTOWN	61	44	67	34	53	15	0.89	-0.03	0.65	0.00	0	34.10	85	99	72	0	0	5	1
	ERIE	56	44	65	39	50	12	1.47	0.54	0.46	0.00	0	30.00	79	89	82	0	0	5	0
	MIDDLETOWN	60	46	67	38	53	13	1.33	0.51	1.12	0.00	0	23.90	64	10	77	0	0	4	1
	PHILADELPHIA	66	52	72	44	59	17	0.40	-0.42	0.39	0.00	0	28.94	76	94	66	0	0	2	0
	PITTSBURGH	58	43	64	39	51	13	2.39	1.70	0.78	0.00	0	33.35	98	94	68	0	0	5	3
	WILKES-BARRE	58	43	65	33	51	14	1.35	0.66	0.78	0.00	0	26.39	78	97	70	0	0	4	1
	WILLIAMSPORT	57	44	65	37	50	13	2.54	1.71	1.51	0.00	0	33.48	89	95	75	0	0	4	2
RI	PROVIDENCE	62	46	71	41	54	15	0.08	-0.99	0.08	0.00	0	37.47	91	99	73	0	0	1	0
SC	BEAUFORT	79	60	82	54	70	14	0.00	-0.61	0.00	0.00	0	43.13	89	10	66	0	0	0	0
	CHARLESTON	79	59	81	54	69	14	0.12	-0.50	0.12	0.00	0	38.33	79	10	69	0	0	1	0
	COLUMBIA	78	58	82	47	68	17	0.26	-0.45	0.24	0.01	10	26.84	58	97	61	0	0	3	0
	GREENVILLE	73	50	75	42	61	13	0.17	-0.70	0.16	0.00	0	38.17	81	10	61	0	0	2	0
SD	ABERDEEN	25	13	35	6	19	-4	0.99	0.88	0.68	0.00	0	22.59	124	90	84	0	7	4	1
	HURON	26	15	36	5	21	-5	0.23	0.11	0.23	0.00	0	25.96	132	92	81	0	7	1	0
	RAPID CITY	27	11	37	-4	19	-11	0.06	-0.05	0.06	0.00	0	14.45	89	86	68	0	7	1	0
	SIOUX FALLS	29	20	37	10	25	-1	1.43	1.22	1.31	0.00	0	29.98	129	93	86	0	7	4	1
TN	BRISTOL	70	42	77	33	56	13	0.16	-0.58	0.14	0.00	0	38.36	102	95	47	0	0	2	0
	CHATTANOOGA	70	48	76	37	59	13	1.35	0.17	0.87	0.00	0	49.94	103	92	56	0	0	3	1
	KNOXVILLE	71	47	77	38	59	14	0.94	-0.04	0.47	0.00	0	37.92	89	93	47	0	0	3	0
	MEMPHIS	60	42	73	37	51	3	10.07	8.73	5.86	0.00	0	55.80	120	93	63	0	0	4	3
	NASHVILLE	65	45	73	36	55	9	4.11	3.04	3.46	0.00	0	45.61	106	97	68	0	0	4	2
TX	ABILENE	56	34	74	23	45	-5	0.42	0.15	0.31	0.00	0	20.87	89	76	47	0	3	2	0
	AMARILLO	49	26	69	15	38	-3	0.17	0.06	0.16	0.00	0	18.48	97	73	35	0	4	2	0
	AUSTIN	63	37	81	30	50	-7	1.99	1.52	1.85	0.04	57	37.48	125	97	54	0	3	4	1
	BEAUMONT	68	47	80	35	57	-1	4.15	3.00	2.63	0.00	0	65.77	125	10	69	0	0	4	3
	BROWNSVILLE	75	53	87	37	64	-2	0.34	0.04	0.32	0.32	800	16.18	64	90	59	0	0	3	0
	CORPUS CHRISTI	67	50	82	37	59	-3	0.26	-0.04	0.12	0.05	125	37.90	131	96	76	0	0	4	0
	DEL RIO	63	40	79	32	51	-5	0.20	0.06	0.18	0.02	100	9.32	53	83	55	0	2	2	0
	EL PASO	55	33	72	23	44	-4	0.12	0.01	0.12	0.00	0	4.20	51	66	32	0	4	1	0
	FORT WORTH	60	36	75	27	48	-4	0.52	0.07	0.29	0.00	0	34.93	109	92	47	0	2	3	0
	GALVESTON	67	52	79	36	59	-2	4.20	3.36	2.70	0.00	0	56.15	144	96	74	0	0	3	2
	HOUSTON	65	42	82	33	54	-3	2.51	1.67	1.83	0.01	9	65.14	152	98	77	0	0	5	1
	LUBBOCK	50	30	68	18	40	-5	0.37	0.25	0.19	0.00	0	15.44	85	76	45	0	3	2	0
	MIDLAND	52	28	71	11	40	-8	0.14	0.03	0.09	0.00	0	9.47	66	79	49	0	5	2	0
	SAN ANGELO	57	34	74	25	46	-5	0.44	0.25	0.37	0.00	0	18.51	94	80	43	0	3	2	0
	SAN ANTONIO	64	40	79	30	52	-5	1.15	0.65	1.02	0.11	183	33.46	113	91	53	0	3	3	1
	VICTORIA	66	44	83	33	55	-4	0.44	-0.07	0.20	0.12	171	39.53	112	95	65	0	0	4	0
	WACO	62	38	78	29	50	-3	0.35	-0.14	0.25	0.00	0	31.67	105	89	70	0	2	3	0
	WICHITA FALLS	53	31	76	23	42	-6	0.32	0.02	0.22	0.00	0	16.37	59	80	42	0	4	2	0
UT	SALT LAKE CITY	35	22	41	15	29	-7	0.98	0.67	0.77	0.00	0	14.15	95	92	74	0	7	4	1
VT	BURLINGTON	53	39	67	30	46	15	0.77	0.08	0.46	0.00	0	22.04	69	96	75	0	2	5	0
VA	LYNCHBURG	68	46	74	42	57	13	0.09	-0.63	0.04	0.01	9	29.33	78	99	69	0	0	6	0
	NORFOLK	73	57	79	52	65	16	0.00	-0.68	0.00	0.00	0	31.53	76	96	67	0	0	0	0
	RICHMOND	71	57	75	53	64	18	0.01	-0.71	0.01	0.00	0	29.83	75	97	73	0	0	1	0
	ROANOKE	69	49	76	44	59	16	0.39	-0.31	0.33	0.00	0	22.64	59	96	67	0	0	4	0
	WASH/DULLES	66	50	72	37	58	17	0.61	-0.16	0.56	0.01	9	35.47	96	99	79	0	0	5	1
WA	OLYMPIA	45	36	47	32	41	1	4.98	2.97	1.94	1.59	612	40.35	94	97	90	0	2	7	3
	QUILLAYUTE	46	36	49	33	41	-1	6.22	2.60	1.92	1.92	384	83.74	93	98	88	0	0	7	3
	SEATTLE-TACOMA	46	39	51	34	42	-1	2.01	0.55	0.79	0.39	195	32.07	102	92	81	0	0	6	1
	SPOKANE	36	28	40	24	32	1	1.10	0.53	0.34	0.14	175	11.83	84	97	77	0	6	5	0
	YAKIMA	41	25	47	17	33	-1	1.18	0.88	0.96	0.12	300	5.88	89	96	84	0	7	5	1
WV	BECKLEY	67	47	72	35	57	18	0.40	-0.32	0.20	0.00	0	33.56	89	93	63	0	0	2	0
	CHARLESTON	67	43	74	35	55	12	0.66	-0.19	0.51	0.00	0	39.36	100	98	58	0	0	3	1
	ELKINS	67	36	73	31	51	14	0.33	-0.47	0.32	0.00	0	37.41	90	10	53	0	3	2	0
	HUNTINGTON	63	43	70	35	53	11	0.92	0.12	0.49	0.00	0	32.87	86	98	61	0	0	5	0
WI	EAU CLAIRE	37	31	50	28	34	9	0.40	0.10	0.32	0.00	0	34.91	114	97	77	0	7	3	0
	GREEN BAY	41	32	50	29	37	9	0.69	0.23	0.28	0.01	17	26.49	97	96	85	0	4	7	0
	LA CROSSE	40	34	49	27	37	8	0.68	0.32	0.24	0.01	20	31.40	107	97	76	0	1	6	0
	MADISON	43	35	48	32	39	10	0.38	-0.10	0.23	0.00	0	37.40	128	96	80	0	1	6	0
	MILWAUKEE	46	37	50	33	41	9	0.58	-0.01	0.24	0.01	13	35.72	116	94	80	0	0	7	0
WY	CASPER	29	16	36	1	22	-6	0.21	0.04	0.10	0.00	0	6.72	57	80	70	0	7	3	0
	CHEYENNE	30	14	41	0	22	-9	0.18	0.07	0.13	0.00	0	13.13	94	76	60	0	7	2	0
	LANDER	28	11	40	1	20	-6	0.33	0.17	0.20	0.00	0	5.39	43	84	69	0	7	3	0
	SHERIDAN	28	12	37	1	20	-7	0.18	0.01	0.16	0.00	0	10.87	79	87	79	0	7	2	0

Based on 1961-90 normals ***** Not Available**

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

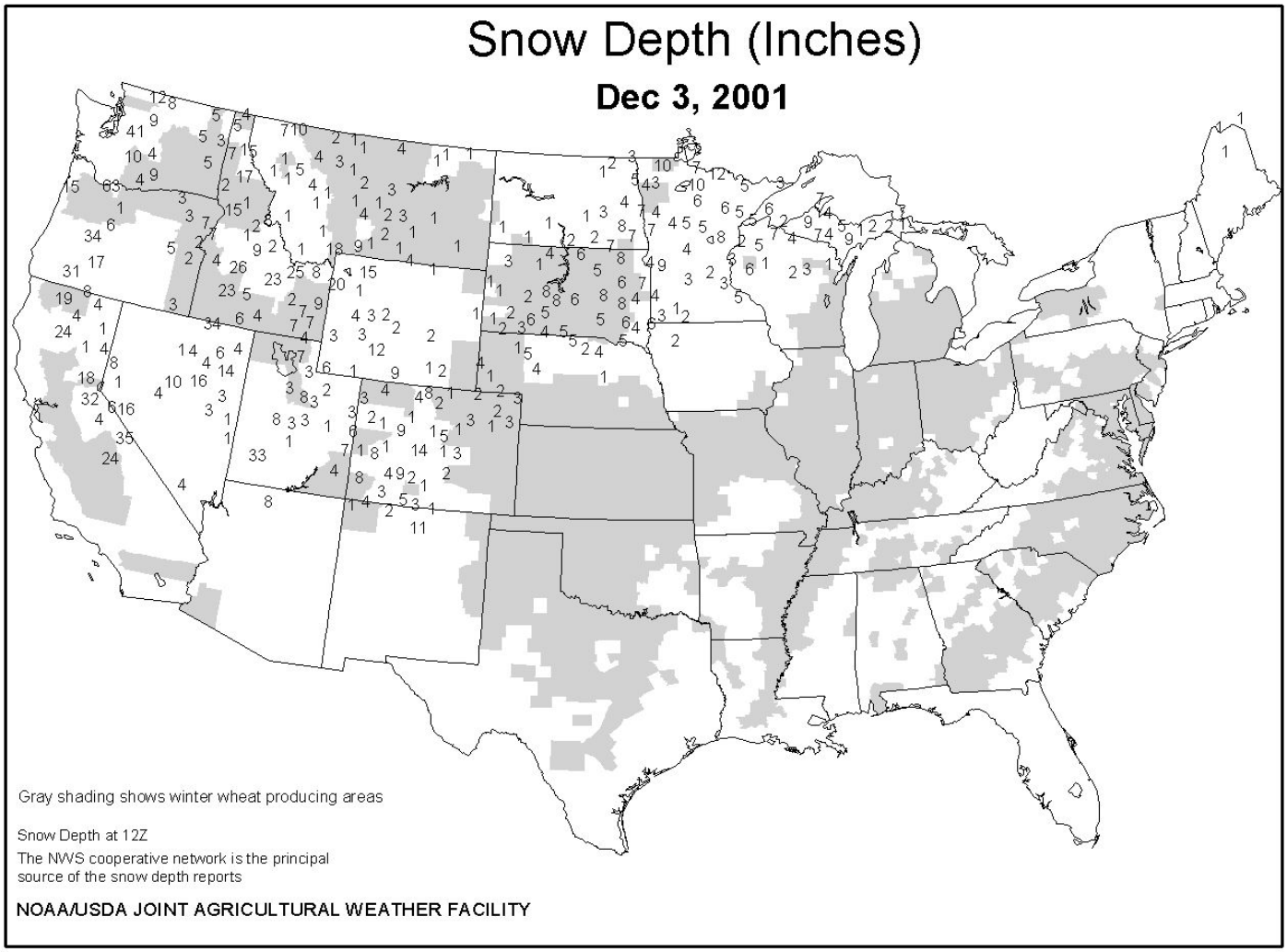
National Agricultural Summary

November 26 - December 2, 2001

Weekly National Agricultural Summary provided by USDA/NASS

HIGHLIGHTS

A band of heavy precipitation prevented fieldwork along a line extending from the western Gulf Coast, through the lower Mississippi Valley, and into the Ohio Valley and Northeast. Many low-lying areas along rivers and streams were flooded, and poorly drained fields had standing water for much of the week, especially in the lower Mississippi Valley. Rain also drenched coastal areas of the Pacific Coast States, while snow accumulations increased in the Cascade and Sierra ranges, Great Basin, and Rocky Mountains. Light precipitation boosted moisture supplies for winter wheat development in parts of the Great Plains and scattered areas along the Atlantic Coastal Plain, but soil moisture reserves remained short in most areas. Below-normal temperatures limited winter wheat growth in the Great Plains, but near-record warmth and abundant moisture supplies promoted rapid growth of soft red winter wheat fields in the Corn Belt. Early-week snow storms provided insulation that protected winter wheat fields on the northern High Plains from brief periods of single-digit and sub-zero temperatures. Scattered light showers barely interrupted harvest activities and other fieldwork on the southern High Plains and along the Atlantic Coastal Plain. Dry weather also supported field and orchard work in Florida.



International Weather and Crop Summary

November 25 - December 1, 2001

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

HIGHLIGHTS

EUROPE: Continued cold weather in southeastern Europe caused winter grains to slip into dormancy.

FSU-WESTERN: A mixture of rain and snow favored dormant winter grains in Ukraine and Russia.

NORTHWESTERN AFRICA: Generally dry weather continued to slow planting in Morocco, while light showers benefited emerging grains in eastern Algeria and Tunisia.

MIDDLE EAST: Showers lingered over Turkey, providing timely moisture for winter wheat establishment but worsening local flooding in the southwest.

SOUTH AFRICA: Widespread showers maintained adequate to excessive moisture levels for emerging corn and other summer crops.

EASTERN ASIA: In the North China Plain, seasonably colder weather began to harden winter wheat for dormancy, while showers returned to central and southern China.

SOUTH ASIA: Warm, dry weather favored summer crop harvesting and winter crop planting.

SOUTHEAST ASIA: The seasonal southward shift of tropical showers brought beneficial rains to Java, Indonesia, and dry weather to Indochina.

AUSTRALIA: Continuing showers increased long-term moisture reserves in major cotton and sorghum areas.

SOUTH AMERICA: In central Argentina, mostly dry weather favored filling to maturing winter wheat and summer crop planting. Across the major crop areas of southern Brazil, widespread showers maintained adequate to abundant soil moisture for germinating crops.

November 2001

MONTHLY DATA FROM SELECTED FOREIGN CITIES CLIMATE PREDICTION CENTER-NCEP-NWS-NOAA

****** DATA NOT AVAILABLE***

COUNTR	CITY	TEMPERATURE (C)						PRECIPITATION (MM)	
		AVG MAX	AVG MIN	HI MAX	LO MIN	AVG	DPART F/NRM	TOTAL	DPART F/NRM
NORWAY	OSLO	3	-2	12	-7	1	1.9	31	-59
SWEDEN	STOCKHOLM	5	1	13	-6	3	0.3	0	-53
FINLAN	HELSINKI	2	-2	9	-9	0	-0.2	60	-12
UKINGD	ABERDEEN	9	4	15	1	7	1.7	44	-32
	MANCHESTER	10	5	15	-2	8	1.4	60	-18
	NOTTINGHAM	10	4	14	-1	7	0.2	28	-31
	BOURNEMOUTH	12	4	14	-4	8	0.3	21	-63
IRELAN	DUBLIN	11	6	16	0	8	1.1	39	-25
ICELAN	REYKJAVIK	4	0	12	-8	2	1.0	61	-11
DENMAR	COPENHAGEN	7	2	13	-4	5	-0.6	40	-9
LUXEMB	LUXEMBOURG	7	2	13	-3	5	0.7	75	-4
SWITZE	ZURICH	5	1	11	-2	3	-0.9	99	15
	GENEVA	7	2	12	-3	5	-0.5	40	-52
FRANCE	PARIS/AEROPRT	9	4	14	-2	7	***	53	***
	STRASBOURG	8	2	14	-3	5	-0.3	52	7
	BOURGES	9	2	14	-5	5	-1.1	43	-15
	BORDEAUX	11	5	17	-1	8	-0.7	46	-47
	TOULOUSE	11	4	19	-2	8	-1.1	29	-19
	MARSEILLE	14	6	19	-1	10	-0.5	25	-33
SPAIN	VALLADOLID	11	2	18	-3	6	-1.2	5	-47
	MADRID	13	2	20	-6	7	-1.8	12	-54
	SEVILLE	19	9	28	3	14	-1.0	88	18
PORTUG	LISBON	16	10	24	5	13	-0.9	8	-91
GERMAN	HAMBURG	8	3	12	-5	5	0.3	65	-6
	BERLIN	7	2	12	-5	5	-0.3	46	-3
	DUSSELDORF	9	4	13	-5	6	0.0	84	21
	LEIPZIG	7	3	11	-4	5	0.2	36	-1
	DRESDEN	6	2	11	-4	4	-0.5	72	30
	STUTTGART	6	1	13	-6	4	-0.6	80	33
	NURNBERG	6	0	13	-7	3	-0.9	73	29
	AUGSBURG	5	0	12	-7	2	-1.2	89	39
AUSTRI	VIENNA	7	1	14	-6	4	-0.5	35	-7
	INNSBRUCK	5	-1	14	-7	2	-1.1	96	37
CZECHR	PRAGUE	5	0	12	-7	3	-0.1	33	2
POLAND	WARSAW	4	0	11	-7	2	-0.9	42	1
	LODZ	4	0	10	-6	2	-0.1	43	4
	KATOWICE	4	-1	10	-8	2	-0.6	59	18
	PRZEMYSL	4	0	11	-8	2	-1.4	11	-29
HUNGAR	BUDAPEST	6	1	14	-3	4	-1.4	31	-22
YUGOSL	BELGRADE	8	3	20	-2	6	-1.5	68	13
ROMANI	BUCHAREST	9	-1	21	-9	4	-2.1	27	-20
BULGAR	SOFIA	9	1	22	-5	5	0.2	25	-25
ITALY	MILAN	12	4	19	-3	8	0.9	36	-59
	VERONA	9	2	17	-4	6	-1.0	60	-13
	VENICE	12	4	19	-2	8	0.3	43	-41
	GENOA	16	11	21	4	13	0.7	37	-122
	ROME	18	8	23	-1	13	0.4	100	-7
	NAPLES	18	9	24	-1	13	1.5	121	-33
GREECE	THESSALONIKA	14	7	22	-3	10	-0.4	9	-49
	LARISSA	16	4	23	-6	10	-0.9	15	-46
	ATHENS	18	12	24	5	15	-0.6	162	106
TURKEY	ISTANBUL	14	9	23	2	12	0.0	164	76
	ANKARA	10	1	19	-9	6	-0.4	80	55
CYPRUS	LARNACA	22	13	27	6	18	-0.1	22	-17
ESTONI	TALLINN	3	-1	11	-7	1	0.1	87	23
RUSSIA	ST.PETERSBURG	1	-3	9	-14	-1	-1.0	87	35
LITHUA	KAUNAS	4	0	10	-7	2	-0.3	75	24
BELARU	MINSK	3	0	9	-10	1	0.5	55	4
RUSSIA	KAZAN	0	-4	10	-20	-2	1.3	51	7
	MOSCOW	1	-2	10	-10	-1	0.6	65	10
	YEKATERINBURG	-2	-7	6	-19	-5	1.0	36	7
	OMSK	-1	-5	10	-26	-3	4.3	35	8
	KRASNOYARSK	1	-5	13	-24	-2	***	30	***
	NOVOSIBIRSK	-1	-5	10	-24	-3	6.8	25	-3
	BARNAUL	1	-3	14	-25	-1	5.5	14	-21
	KHABAROVSK	-2	-10	9	-21	-6	1.8	8	-13
	VLADIVOSTOK	5	-1	13	-9	2	3.4	6	-25
UKRAIN	KIEV	5	0	14	-9	2	0.3	71	23
	LVOV	3	-1	10	-9	1	-1.3	74	30
	KIROVOGRAD	5	0	20	-8	3	0.7	61	26

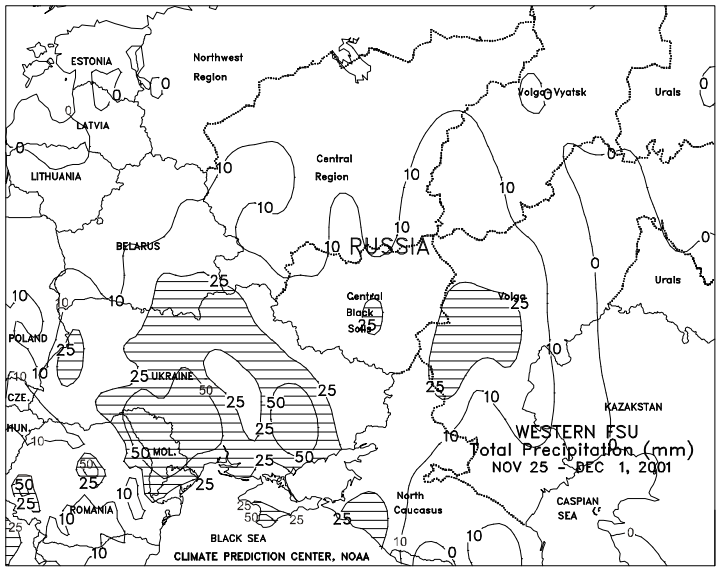
Based on Preliminary Reports

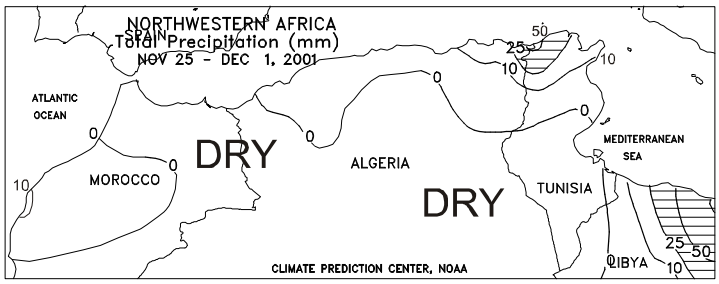
November 2001

COUNTR	CITY	TEMPERATURE (C) AVG MAX	AVG MIN	HI MAX	LO MIN	AVG	DPART F/NRM	PRECIPITATION (MM) TOTAL	DPART F/NRM
	ODESSA	8	3	22	-4	6	-0.3	74	35
	YALTA	12	7	25	-1	9	0.0	163	102
RUSSIA	VORONEZH	3	0	14	-12	2	***	57	***
	SARATOV	2	-1	10	-8	1	2.5	90	50
	VOLGOGRAD	5	-1	13	-11	2	2.3	44	10
UKRAIN	ZDANOV	7	2	18	-8	4	2.1	55	28
RUSSIA	ASTRAKHAN	9	3	19	-8	6	2.6	29	12
	KRASNODAR	10	4	21	-3	7	1.2	108	48
KAZAKS	ATBASAR	0	-5	11	-27	-3	4.5	45	23
RUSSIA	ORENBURG	1	-3	11	-17	-1	2.1	44	6
KAZAKS	KARAGANDA	2	-5	14	-23	-1	3.7	11	-16
GEORGI	TBILISI	14	5	21	-7	9	0.9	0	-32
UZBEKI	TASHKENT	16	7	26	0	11	3.5	31	-13
TURKME	ASHKHABAD	16	6	32	-2	11	1.4	16	-5
SYRIA	DAMASCUS	20	4	27	-11	12	-0.5	0	-25
ISRAEL	BEN-GURION	24	14	30	8	19	1.4	38	-31
INDIA	AMRITSAR	28	10	33	6	19	0.8	0	-7
	NEW DELHI	29	13	36	9	21	0.3	1	-5
	AHMEDABAD	34	17	38	12	25	0.4	0	-11
	INDORE	30	14	34	9	22	0.2	0	-21
	CALCUTTA	30	21	34	17	26	2.1	16	0
	VERAVAL	34	21	36	20	28	1.6	0	-26
	BOMBAY	35	22	37	20	28	1.7	0	-7
	POONA	31	14	33	10	22	-0.1	23	0
	BEGAMPET	31	19	32	14	25	1.7	2	-21
	KAKINADA	30	24	33	21	27	1.6	96	-11
	MADRAS	30	24	32	22	27	0.7	261	-79
	MANGALORE	33	24	34	22	28	0.9	107	36
N KORE	NAMPO	10	2	16	-5	6	0.8	3	-25
S KORE	SEOUL	11	3	16	-3	7	1.1	7	-29
JAPAN	SAPPORO	9	2	16	-5	5	1.0	85	-14
	NAGOYA	17	7	22	2	12	0.5	55	-15
	TOKYO	17	10	22	6	13	0.6	125	35
	YOKOHAMA	16	9	23	5	13	0.6	142	37
	MAIZURU	16	7	22	3	11	0.1	240	99
	OSAKA	18	10	23	6	14	0.8	41	-25
THAILA	PHITSANULOK	31	19	35	14	25	-2.0	6	-27
	BANGKOK	32	23	36	19	27	0.0	37	-15
MALAYS	KUALA LUMPUR	32	24	35	23	28	2.0	221	-55
VIETNA	HANOI	26	18	32	14	22	0.5	22	-21
CHINA	HARBIN	2	-6	11	-15	-2	5.1	4	-4
	HAMI	10	-3	16	-9	4	3.6	2	1
	LANCHOW	11	-1	18	-5	5	3.5	2	-3
	BEIJING	11	0	18	-7	6	1.2	21	15
	TIENTSIN	11	1	19	-4	6	0.7	16	6
	LHASA	13	-3	18	-6	5	1.8	0	-2
	KUNMING	17	8	23	3	12	0.9	34	-6
	CHENGCHOW	15	4	21	-3	10	2.0	0	-25
	YEHCHANG	18	10	25	5	14	1.6	22	-25
	HANKOW	18	10	22	7	14	2.9	54	-1
	NEIJIANG	17	13	22	9	15	1.2	32	-4
	CHIHKIANG	19	9	23	4	14	1.3	51	-17
	NANJING	17	7	20	2	12	0.8	38	-18
	HANGZHOU	17	9	22	5	13	1.3	42	-17
	NANCHANG	18	10	22	6	14	1.0	104	50
	TAIPEI	23	19	29	14	21	0.8	17	-47
	CANTON	26	15	31	9	20	1.2	20	-22
	NANNING	25	13	31	6	19	0.0	32	-14
CANARY	LAS PALMAS	23	19	29	15	21	0.9	99	77
MOROCC	CASABLANCA	21	13	31	7	17	1.3	22	-50
	MARRAKECH	22	12	32	2	17	1.0	6	-32
ALGERI	ALGER	18	9	25	2	14	-1.2	50	-55
	BATNA	15	5	24	0	10	0.3	25	-11
TUNISI	TUNIS	21	14	25	10	17	1.5	57	1
NIGER	NIAMEY	37	19	39	16	28	0.2	0	0
MALI	TIMBUKTU	35	20	37	16	27	1.5	0	0
	BAMAKO	35	21	37	15	28	1.1	0	-3
MAURIT	NOUAKCHOTT	31	21	38	17	26	0.3	3	-1
SENEGA	DAKAR	31	25	35	3	28	2.6	5	5
CHAGOS	DIEGO GARCIA	30	26	32	24	28	0.8	203	-8
LIBYA	TRIPOLI	24	15	35	9	19	2.0	66	20
	BENGHAZI	23	16	28	10	19	1.1	29	-6
EGYPT	CAIRO	24	15	29	10	20	0.8	0	-4
	ASWAN	29	14	34	10	21	-0.2	0	0
ETHIOP	ADDIS ABABA	***	***	24	4	***	***	***	***

COUNTR	CITY	TEMPERATURE (C) AVG MAX	AVG MIN	HI MAX	LO MIN	AVG	DPART F/NRM	PRECIPITATION (MM) TOTAL	DPART F/NRM
KENYA	NAIROBI	24	15	27	13	19	-0.1	209	88
TANZAN	DAR ES SALAAM	***	***	33	20	***	***	***	***
GABON	LIBREVILLE	29	24	30	22	27	0.8	195	-328
TOGO	LOME	32	25	33	23	29	1.5	0	-22
BURKIN	OUAGADOUGOU	37	21	38	17	29	0.8	0	-2
COTE D	ABIDJAN	31	26	32	23	29	1.2	93	-50
MOZAMB	MAPUTO	29	22	37	18	25	1.6	313	240
MALAWI	CHILEKA	***	***	34	21	***	***	***	***
ZIMBAB	HARARE	28	17	32	13	22	1.7	69	-32
S AFRI	PRETORIA	26	17	33	12	21	0.6	132	31
	KROONSTAD	25	14	29	7	20	***	81	***
	JOHANNESBURG	22	13	27	7	18	-0.4	116	-2
	BETHAL	24	13	31	7	18	0.2	68	-59
	DURBAN	26	20	30	16	23	1.5	222	114
	CAPE TOWN	25	15	31	10	20	1.8	10	-6
CANADA	TORONTO	12	3	20	-2	7	3.9	76	5
	MONTREAL	9	1	17	-6	5	3.0	82	-12
	WINNIPEG	6	-4	18	-10	1	5.5	13	-8
	REGINA	6	-6	18	-13	0	5.1	9	-3
	SASKATOON	4	-6	15	-13	-1	4.7	8	-6
	LETHBRIDGE	8	-5	19	-25	2	2.7	13	-4
	CALGARY	6	-6	19	-20	0	2.8	17	5
	EDMONTON	4	-5	17	-19	-1	3.2	5	-11
	VANCOUVER	11	5	16	-1	8	1.7	143	-27
MEXICO	GUADALAJARA	26	11	27	4	18	0.7	0	-13
	TOLUCA	17	5	21	-2	11	-0.4	10	-10
	ACAPULCO	31	24	33	21	28	-0.1	0	-44
BERMUD	ST. GEORGES	24	19	26	14	21	-0.3	173	54
BAHAMA	NASSAU	27	20	29	18	24	-0.1	459	404
CUBA	HAVANA/MARTI	27	18	29	13	23	-1.3	3	-49
JAMAIC	KINGSTON	31	24	33	22	28	0.7	190	109
P RICO	SAN JUAN	29	24	33	21	26	-0.2	80	-71
GUADEL	RAIZET	31	23	33	19	27	1.0	77	-64
MARTIN	LAMENTIN	31	23	33	20	27	1.2	106	-84
BARBAD	BRIDGETOWN	31	24	33	22	28	0.6	45	-87
TRINID	PORT OF SPAIN	33	24	33	22	28	2.1	149	-50
COLOMB	BOGOTA	20	8	22	2	14	0.4	48	-40
F GUIA	CAYENNE	32	22	33	21	27	0.8	77	-78
BRAZIL	FORTALEZA/PINT	31	26	33	24	28	0.4	20	1
	RECIFE	30	23	31	20	27	0.4	31	-13
	BELO HORIZONTE	28	19	31	17	24	0.7	323	81
	CAMPO GRANDE	31	22	34	19	27	1.6	296	139
	FRANCA	27	19	31	17	23	4.4	224	23
	RESENDE	29	19	34	16	24	1.9	149	-17
	LONDRINA	31	19	36	15	25	2.6	80	-71
	SANTA MARIA	28	17	36	9	22	0.9	110	-23
	PORTO ALEGRE	27	17	35	12	22	0.6	108	33
PERU	LIMA	20	16	22	14	18	-1.1	0	0
BOLIVI	LA PAZ	18	3	26	-1	11	0.3	21	-29
CHILE	SANTIAGO	25	9	32	3	17	-0.1	0	-8
ARGENT	FORMOSA	31	21	38	16	26	1.5	109	-74
	POSADAS	31	20	37	15	26	1.9	214	61
	CERES	28	16	36	10	22	-0.8	133	34
	CORDOBA	26	14	36	6	20	-0.7	92	-8
	RIO CUARTO	26	14	35	6	20	-0.1	26	-95
	ROSARIO	27	15	35	9	21	0.7	128	31
	BUENOS AIRES	24	13	32	6	19	-0.2	131	33
	SANTA ROSA	24	11	31	4	18	-1.7	103	3
	TRES ARROYOS	23	11	31	3	17	0.6	139	64
SAMOA	PAGO PAGO	31	26	34	24	29	1.8	202	-73
TAHITI	PAPEETE	30	23	32	20	27	0.7	61	-100
NZEALA	AUCKLAND	19	14	23	10	16	***	81	***
	WELLINGTON	17	13	26	7	15	***	97	***
AUSTRA	DARWIN	33	25	35	23	29	-0.1	177	45
	GOONDIWINDI	28	17	36	11	23	-1.5	52	-12
	BRISBANE	26	18	30	13	22	-0.8	192	82
	PERTH	28	14	37	6	21	1.3	24	1
	CEDUNA	23	12	35	5	18	-1.7	27	8
	ADELAIDE	21	12	31	7	17	-1.4	41	19
	MELBOURNE	20	10	29	2	15	-1.2	66	18
	WAGGA	25	9	33	2	17	-0.9	12	-28
	CANBERRA	22	8	29	1	15	-0.4	50	-15
INDONE	BANDUNG/HUSEIN	***	***	29	19	***	***	390	128
PHILIP	MANILA	31	25	33	21	28	0.6	49	-69

Based on Preliminary Reports





EUROPE

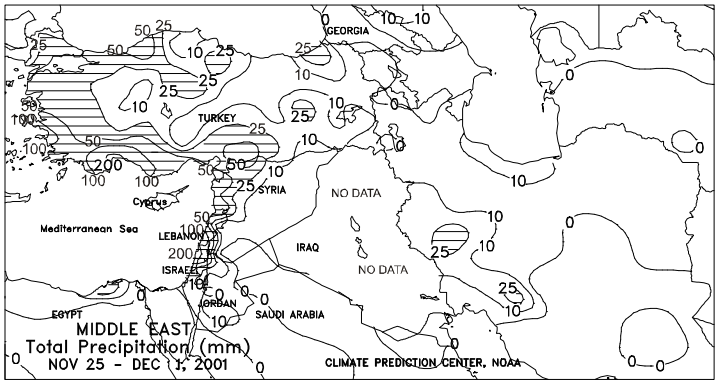
In England, northern and central France, the Benelux countries, and most of Germany, widespread showers (15-60 mm or more) maintained abundant moisture supplies for well-established winter grains, but hampered late sugar beet harvesting in England. In contrast, mostly dry weather (generally less than 10 mm) prevailed in northern Italy, southern France, and the Iberian peninsula, favoring winter grain planting and late corn harvesting in Spain and Portugal. Moisture supplies remained adequate for winter grain development in these areas. In southern Italy, scattered showers (4-39 mm) continued to help early durum wheat development. Farther east, scattered rain and snow (4-35 mm or more, liquid equivalent) in eastern Europe maintained moisture supplies for mostly dormant winter grains and oilseeds. Temperatures in eastern Europe averaged about 0 to 3 degrees C below normal. The persistently cold weather helped winter grains ease into dormancy in much of southeastern Europe and kept winter crops dormant in northeastern Europe. In the remainder of southern Europe, near- to below-normal temperatures slowed crop development in Italy and the western and southern Iberian peninsula. Temperatures in these regions averaged about 1 to 2 degrees C below normal. Elsewhere in western and central Europe, temperatures averaged about 1 to 4 degrees C above normal, allowing for continued crop development.

FSU-WESTERN

Widespread rain and snow favored dormant winter grains over most of the region. The greatest amounts of precipitation (25-50 mm or more) were observed over a large portion of Ukraine and the middle Volga Valley. Significant precipitation (25-55 mm) fell in chronically dry areas of south-central and southeastern Ukraine, providing much-needed soil moisture. Elsewhere, light to moderate snow (4-22 mm of liquid equivalent) fell from the Baltics and Belarus eastward through northern Russia, increasing the protective snow cover. In southwestern Ukraine, rain early in the week was followed by heavy snow at week' s end. Weekly temperatures were low enough to prompt winter grains to enter dormancy in most areas. Bitterly cold weather (temperatures below -15 degrees C) was confined to extreme northeastern areas in Russia. In major winter wheat-producing areas of Ukraine and southern Russia, extreme minimum temperatures generally ranged from -8 to 2 degrees C. By week' s end, snow covered most of northern Russia, western and northern Ukraine, Belarus, and the Baltics, while most of southern Ukraine and the North Caucasus region in Russia remained snow free.

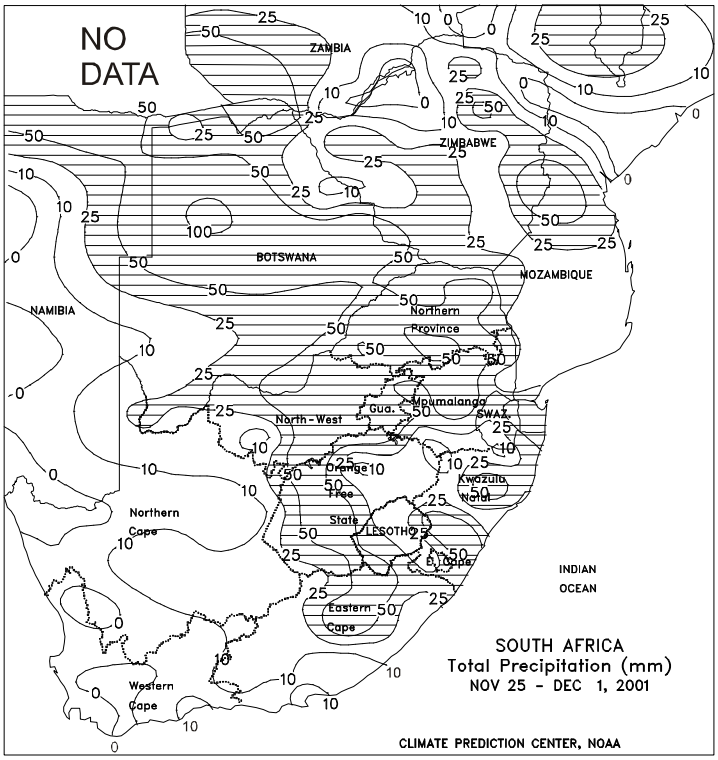
NORTHWESTERN AFRICA

Light showers (less than 10 mm) dampened topsoils in southern Morocco, while dry weather prevailed in northern Morocco. The dry conditions in Morocco continued to slow planting as growers awaited more rainfall. Plenty of time remains for planting winter grains, since planting can continue through mid-December. Dry weather continued in western Algeria. Although moisture conditions in western Algeria are adequate for winter grain planting, additional precipitation is needed for early crop development. Light showers (1-10 mm) in central Algeria and southern Tunisia dampened topsoils for winter grain planting and emergence, while heavier amounts (10-25 mm) in eastern Algeria and northern Tunisia benefited newly emerging winter grains.



MIDDLE EAST

A cool, wet weather pattern continued across Turkey, providing additional timely moisture for winter wheat establishment but hampering early crop development. Rainfall generally ranged from 10 to 25 mm in primary crop areas of the Anatolian Plateau and the southeast. However, heavy rain (50-100 mm or more) likely caused additional flooding in parts of southwestern Turkey. The excessive rain may have damaged some unharvested summer crops, including cotton, although harvests were reportedly well advanced before the rainy pattern became established in early November. Elsewhere, light showers (5-30 mm) boosted moisture reserves in Israel and Syria. In Iran, late-week rain benefited winter wheat in the west-central portion of the country but failed to reach crop areas in the northeast. Showers (25 mm or less) lingered along the Caspian Coast. Although seasonal temperatures are limiting winter wheat development, especially in the northwest, rain is still needed across Iran to build moisture reserves for proper wheat establishment.

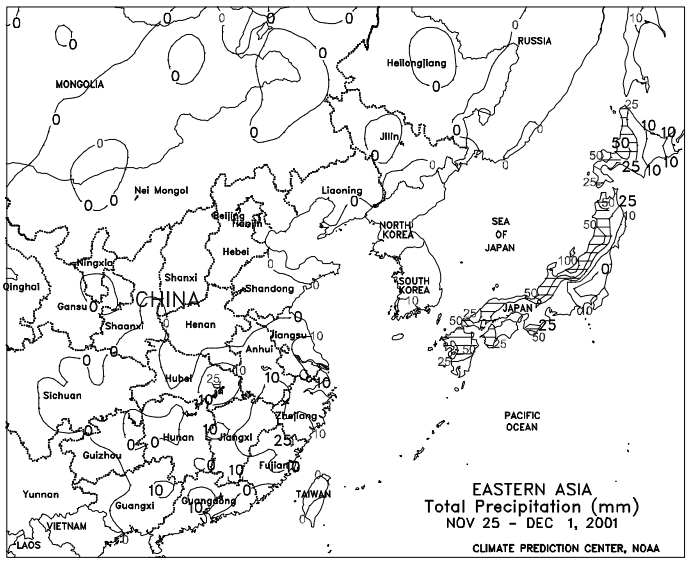


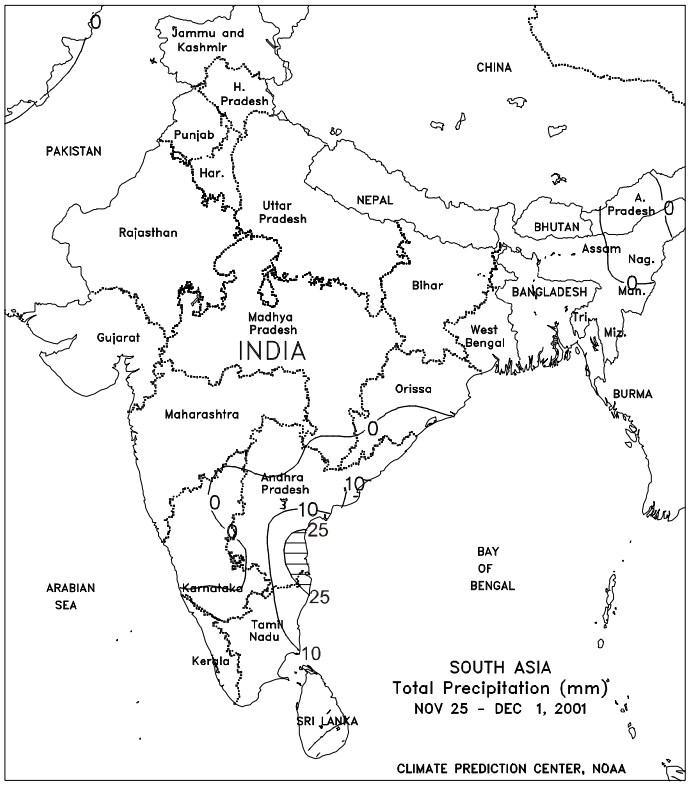
SOUTH AFRICA

Rain (5-25 mm or more) maintained generally favorable prospects for summer crop germination and establishment. Following a brief respite, heavier rain (25-50 mm or more) returned to eastern and northern sections of the corn belt, slowing fieldwork but helping to further build long-term moisture reserves. Temperatures averaged slightly below normal across the corn belt, with highs in the middle to upper 30s degrees C, favoring development of emerging crops. Elsewhere, moderate to heavy showers (10-50 mm or more) maintained adequate to abundant irrigation reserves for sugarcane and other summer crops in KwaZulu-Natal and neighboring sections of Eastern Cape. Warm, dry weather increased irrigation requirements in crop areas of Western Cape.

EASTERN ASIA

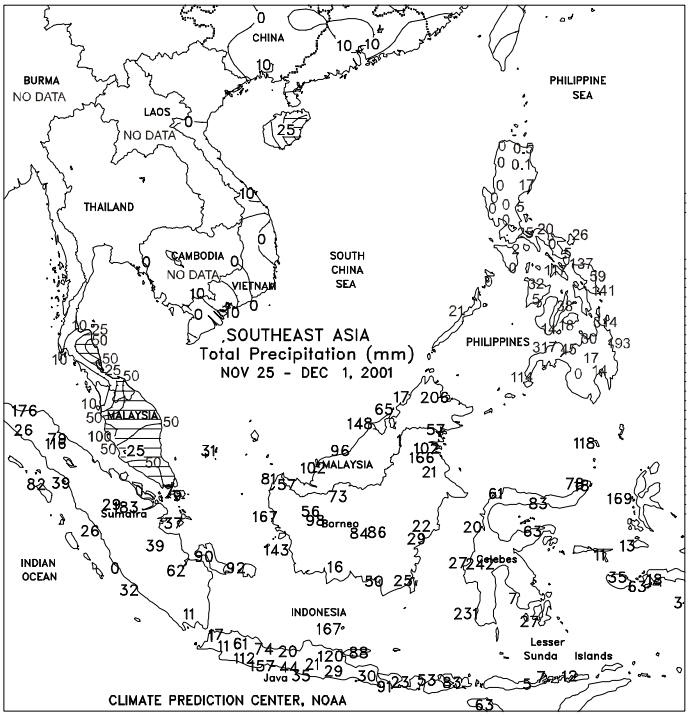
Across the North China Plain, seasonably cold, dry weather began to harden winter wheat. Freezing temperatures extended to the southern North China Plain (central Anhui and Jiangsu). These freezes occurred later than average. Light showers (5-25 mm) returned to the Yangtze Valley and southern China, increasing topsoil moisture for winter crops, but more rain is still needed to ease short-term moisture deficits. Across this region, temperatures averaged 2 to 4 degrees C above normal, increasing evapotranspiration rates.





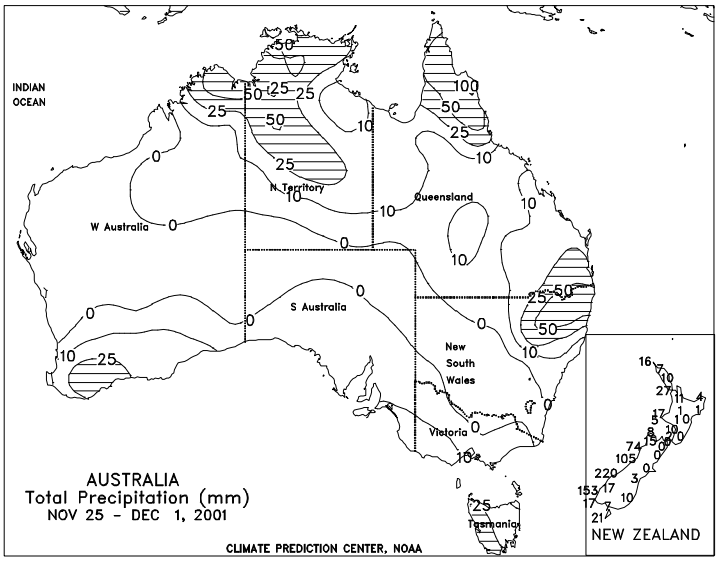
SOUTH ASIA

Seasonably dry weather dominated the region, with light, scattered showers (less than 25 mm) confined to coastal rice areas of southeastern India (Tamil Nadu and Andhra Pradesh). Conditions were favorable for drydown and harvesting of grains, oilseeds, and cotton, as well as early development of newly planted dry-season (rabi) crops, including rice. Across the north, planting of the mostly irrigated winter wheat and oilseed crop continued. Temperatures averaged near to above normal, with highs across the region generally in the upper 20s and lower 30s degrees C.



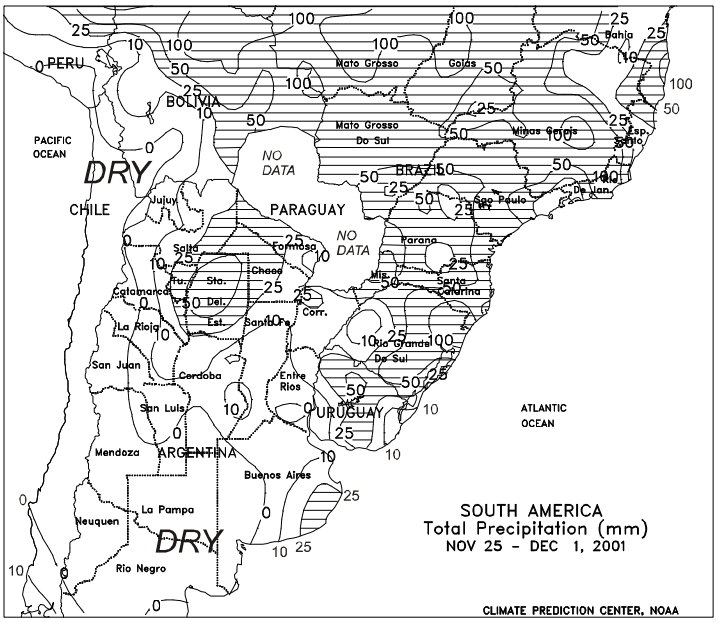
SOUTHEAST ASIA

Tropical showers continued their seasonal migration southward. Showers (25-100 mm) in Java, Indonesia, maintained favorable moisture supplies for vegetative main-season rice. Throughout oil palm areas of peninsular Malaysia and Sumatra, showers (25-100 mm, locally more) maintained moisture supplies. Generally dry conditions favored fieldwork for rice and plantation crops in Luzon, Philippines. Seasonably dry weather allowed rice harvesting to progress throughout Thailand and Vietnam.



AUSTRALIA

Widespread showers (15-40 mm or more) continued in southern Queensland and northern New South Wales. The heaviest rain (greater than 50 mm) fell in northeastern New South Wales, increasing irrigation reserves for newly planted summer crops, including sugarcane, but possibly flooding cotton fields. Near- to slightly below-normal temperatures, with highs in the upper 20s to lower 30s degrees C, kept summer crop growth rates at lower-than-expected levels. Warmer weather (highs in the middle 30s degrees C) accompanied scattered, mostly light showers in the grazing lands of western Queensland. In the southeast (South Australia to southern New South Wales), mostly dry weather aided winter crop harvesting, but below-normal temperatures (highs generally in the middle to upper 20s degrees C) slowed drydown following last week' s breezy, wet weather. Warm, dry weather aided fieldwork in Western Australia, but showers (10-25 mm) developed late in the week in southern growing areas. In New Zealand, mild, dry weather aided crop and pasture growth following recent weeks of beneficial rainfall.



SOUTH AMERICA

In central Argentina, mostly dry weather favored filling to maturing winter wheat and summer crop planting. The only significant rain (10-40 mm) occurred in southeastern Buenos Aires, favoring reproductive to filling winter wheat. In northern Argentina, the cotton areas remained dry with only scattered rain (5-25 mm). Across Argentina, temperatures averaged 1 to 3 degrees C below-normal. According to the Argentine Agricultural Secretariat as of November 30, nationwide corn, sorghum, sunflowers, and soybeans were 72, 65, 73, and 48 planted, respectively, compared with 79, 58, 87, and 50 percent last year. In Buenos Aires, corn was 74 percent planted compared with 96 percent last year. In southern Brazil, widespread showers (25-80 mm or more) covered the major soybean- and corn-producing areas, maintaining adequate to abundant soil moisture for soybeans. The moisture also benefited sugarcane, coffee, oranges in Sao Paulo and Minas Gerais and the cocoa areas of coastal Bahia. Lighter showers (10-30 mm) fell across Espirito Santo and northern Minas Gerais, easing excessive wetness from last week' s rain. According to Safras, a Brazilian grain analyst firm, as of November 30, soybeans were 83 percent planted, compared with the 5-year average of 80 percent.

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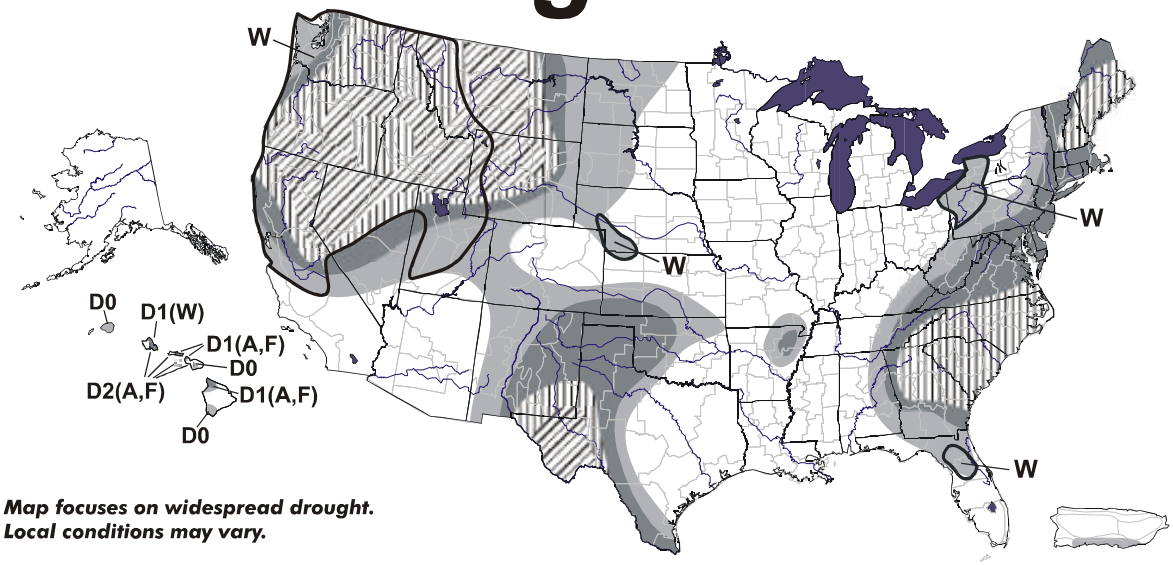
November 27, 2001 **Valid 8 a.m. EST**

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://enso.unl.edu/monitor/monitor.html

• Released Thursday, November 29, 2001 •
Author: *Brad Rippey, USDA*

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