

# WEEKLY WEATHER AND CROP BULLETIN

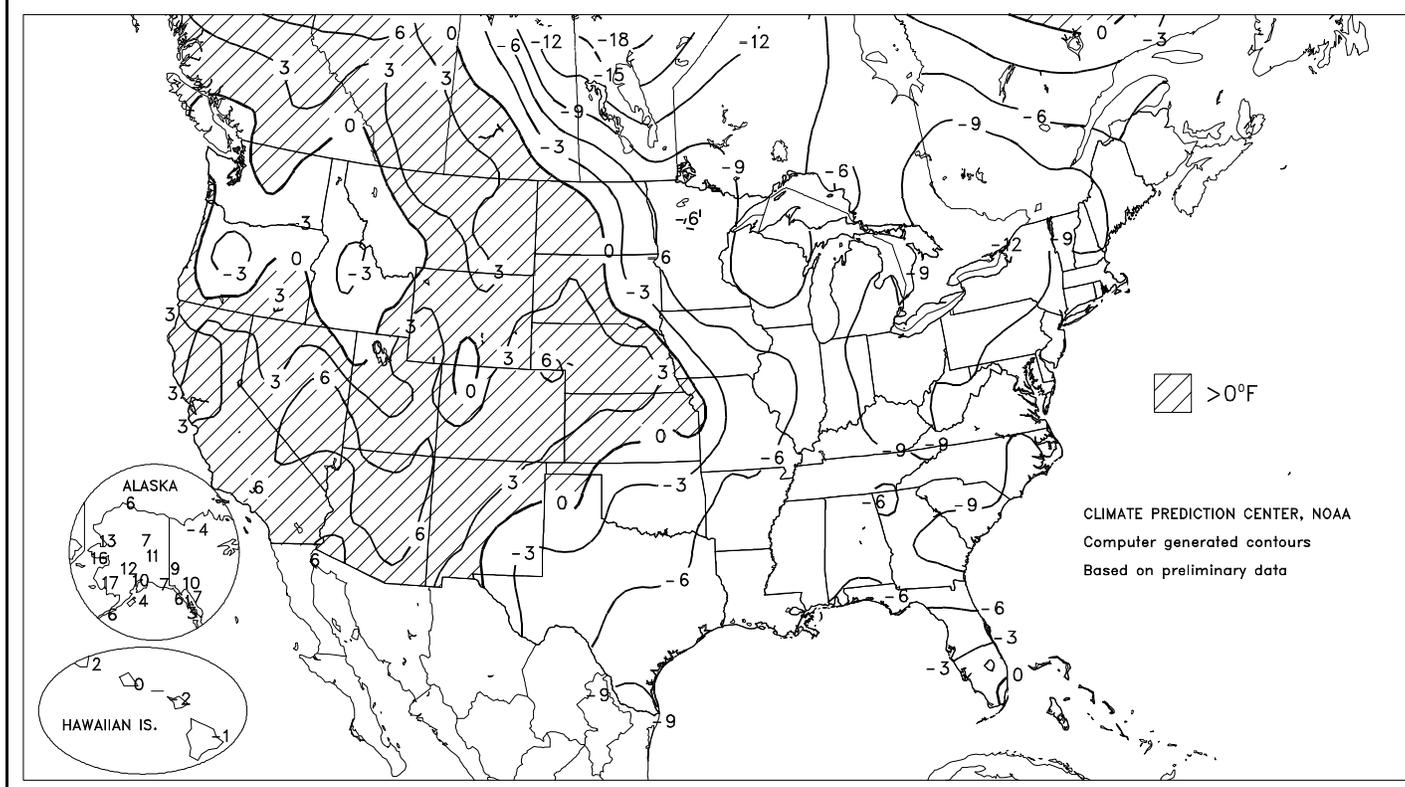
U.S. DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration  
National Weather Service

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



Departure of Average Temperature from Normal (°F)

DEC 3 - 9, 2000



CLIMATE PREDICTION CENTER, NOAA  
Computer generated contours  
Based on preliminary data

## HIGHLIGHTS

**December 3 - 9, 2000**

*Highlights provided by USDA/WAOB*

Mostly dry weather prevailed nearly nationwide, favoring late-autumn fieldwork, including final summer crop harvesting and winter wheat planting on the **southern Plains**. Previously soaked fields in the **South** continued to dry out, although unfavorable dryness persisted across **Florida's peninsula**. Very cool conditions lingered in the **Midwest, East, and South**, but milder weather on the **southern Plains** aided late-planted wheat. Warm weather continued for a second consecutive week in **California** and the **Southwest**. Weekly temperatures averaged 3 to 11°F below normal in the **Corn Belt** and as much as 10°F below normal in the **southern Atlantic**  
*(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 9, 2000**

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

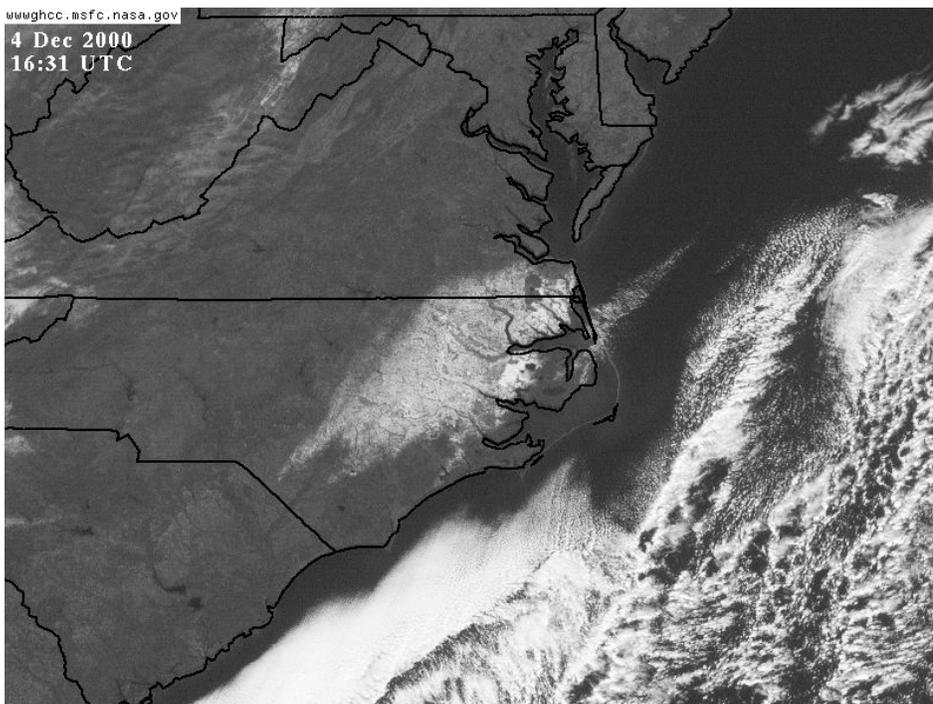
STATES AND STATIONS	TEMPERATURE EF						PRECIPITATION							4-INCH SOIL TEMP. °F		NUMBER OF DAYS			
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL IN, SINCE Dec 1	PCT. NORMAL SINCE Dec 1	TOTAL IN, SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMP. EF		PRECIP	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
MS BATESVILLE <sup>x</sup>	45	27	55	22	36	-9	0.00	-1.26	0.00	0.00	0	--	--	--	--	0	6	0	0
BELZONI <sup>x</sup>	49	31	57	25	40	-9	0.00	-1.38	0.00	0.00	0	40.02	--	--	--	0	4	0	0
CLARKSDALE <sup>x</sup>	47	28	55	25	38	-8	0.00	-1.19	0.00	0.00	0	42.87	--	--	--	0	6	0	0
CLEVELAND <sup>x</sup>	47	30	57	24	39	-9	0.00	-1.08	0.00	0.00	0	43.85	98	--	--	0	4	0	0
GREENVILLE <sup>x</sup>	50	28	59	25	39	-10	0.00	-1.21	0.00	0.00	0	--	--	--	--	0	6	0	0
GREENWOOD <sup>x</sup>	52	28	62	24	40	-9	0.00	-1.15	0.00	0.00	0	38.00	83	--	--	0	6	0	0
INDIANOLA 1S	48	31	58	28	40	--	0.00	--	0.00	0.00	--	--	--	47	41	0	5	0	0
INVERNESS 5E	49	31	58	26	40	--	0.00	--	0.00	0.00	--	44.29	--	--	--	0	5	0	0
LYON	48	30	56	27	39	--	0.00	--	0.00	0.00	--	33.04	--	--	--	0	7	0	0
MOORHEAD <sup>x</sup>	50	32	59	26	41	-8	0.00	-1.32	0.00	0.00	0	46.08	96	--	--	0	4	0	0
ONWARD	50	31	60	28	41	--	0.00	--	0.00	0.00	--	--	--	48	43	0	5	0	0
ROLLING FORK <sup>x</sup>	49	30	59	26	40	-9	0.00	-1.26	0.00	0.00	0	32.10	67	--	--	0	4	0	0
SIDON	52	32	63	28	42	--	0.00	--	0.00	0.00	--	34.44	--	--	--	0	4	0	0
TUNICA <sup>x</sup>	43	30	54	25	37	-9	0.00	-1.26	0.00	0.00	0	40.70	87	--	--	0	6	0	0
TUNICA 1W	47	29	54	23	38	--	0.00	--	0.00	0.00	--	--	--	45	42	0	6	0	0
VANCE	48	30	57	26	39	--	0.00	--	0.00	0.00	--	--	--	46	44	0	6	0	0
VICKSBURG <sup>x</sup>	51	30	60	25	41	-11	0.04	-1.22	0.04	0.10	6	42.42	--	--	--	0	5	1	0
YAZOO CITY <sup>x</sup>	50	29	58	26	40	-10	0.00	-1.40	0.00	0.00	0	43.50	86	--	--	0	6	0	0
STONEVILLE <sup>*</sup>	49	29	60	26	39	-8	0.00	-1.37	0.00	0.02	1	51.90	107	49	39	0	6	0	0
MO CARDWELL	44	27	50	23	34	-7	0.04	-1.31	0.04	0.04	3	36.21	74	--	--	0	7	1	0
CHARLESTON	41	24	48	21	33	-5	0.09	-1.34	0.07	0.12	8	41.16	89	--	--	0	7	2	0
CLARKTON	43	26	50	23	34	-7	0.08	-1.22	0.08	0.10	7	--	--	--	--	0	7	1	0
DELTA	41	23	49	20	32	-7	0.21	-0.90	0.17	0.23	15	35.86	73	--	--	0	7	2	0
GLENNONVILLE	43	27	51	23	34	-7	0.05	-1.25	0.05	0.06	4	37.56	87	--	--	0	7	1	0
PORTAGEVILLE #1	44	27	53	25	34	-8	0.08	-1.41	0.08	0.10	6	--	--	--	--	0	7	1	0
PORTAGEVILLE #2	43	27	50	25	34	-8	0.06	-1.43	0.06	0.08	5	42.80	89	--	--	0	7	1	0
STEELE	44	27	50	24	35	-7	0.05	-1.75	0.05	0.05	3	31.75	64	--	--	0	7	1	0

Compiled by USDA/OCE/WAOB's Stoneville Field Office.

\* Based on 1964-93 normals.

<sup>x</sup> Based on 1961-90 normals.

**Delta and Bootheel Weather and Crop Summary:** Precipitation and temperatures remained below normal again this week across the Delta and Bootheel. Emergence of fall-sown crops is reported as widespread throughout the region.



**Carolina Snow:** An early-winter storm produced unusually heavy snowfall in eastern North Carolina and extreme southeastern Virginia on Sunday, December 3. The following day, GOES-8 captured pictures of the snow cover as well as of low clouds off the Carolina coast caused by cold air moving over the warm waters of the Gulf Stream. The image to the left was taken on December 4 at 11:31 a.m. EDT. Storm-total accumulations reached 1 foot in Beaufort County, which includes the Pamlico River, and Pitt County, slightly farther inland.

(Continued from front cover)

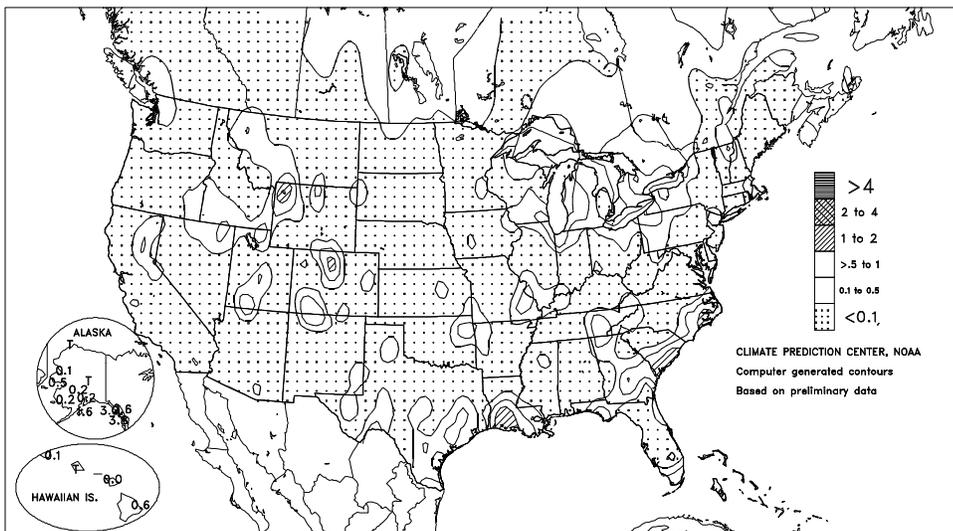
**region.** In contrast, temperatures generally ranged from 3 to 9°F above normal in the **Southwest**. At week's end, however, a significant cold outbreak reached the **northern Plains** and the **Northwest**, increasing livestock stress. However, the regions' winter grains remained largely protected by snow cover.

An early-week storm system dropped heavy snow (locally more than 1 foot) in **eastern North Carolina** and extreme **southeastern Virginia**. The storm produced lighter amounts in the **southern Appalachians**, including 3.8 inches (on December 2-3) in **Jackson, KY**. Meanwhile in the **southern half of Texas**, a separate weather system produced light precipitation, including a half-inch snowfall on Sunday in **Midland, TX**. Elsewhere, significant precipitation was confined to **southern Louisiana**, where up to 1 inch of rain fell. Light snow developed across **southern New England** toward week's end, resulting in totals of 3.2 inches in **Providence, RI** and 2.0 inches in **Hartford, CT**.

Prior to midweek, warm weather prevailed in **California** and the **Southwest**, while a reinforcing shot of cold air produced more than a dozen daily-record lows in the **Southeast**. On Sunday, **Simi Valley, CA** posted a daily-record high of 86°F. A day later, record lows included 10°F in **Lynchburg, VA** and 19°F in **Greenville-Spartanburg, SC**. By Wednesday morning, cold air settled into **northern Florida**, where **Tallahassee** (24°F) tallied a daily-record low. Toward week's end, bitterly cold air settled into the **Northeast**, where Friday morning's low temperatures in **New York** included -22°F in **Saranac Lake** and -17°F, a daily record, in **Massena**. An even more impressive cold wave reached the **northern Plains** on Saturday night. In **Rapid City, SD**, Saturday represented the last of 705 consecutive days (January 5, 1999 to December 9, 2000) that temperatures remained above 0°F. **Rapid City's** previous record of 362 days was set from December 1982 - December 1983. By Sunday, December 10, daily-record lows in **Montana** included -24°F in both **Glasgow** and **Cut Bank**.

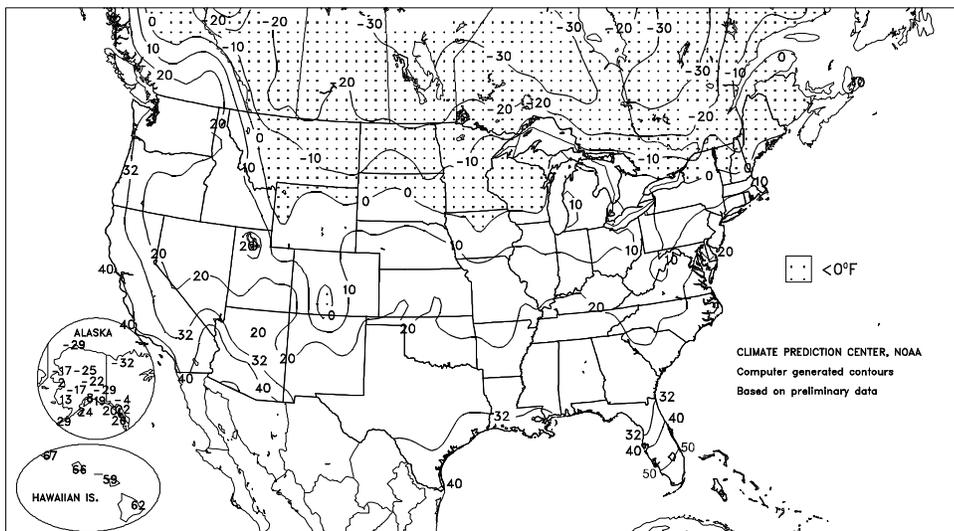
Total Precipitation (Inches)

DEC 3 - 9, 2000



Extreme Minimum Temperature (°F)

DEC 3 - 9, 2000



Mostly dry conditions prevailed in **Hawaii**, while unusually mild weather (weekly temperatures ranged from 4 to 16°F above normal) continued in **Alaska**. On Tuesday, **Yakutat, AK** registered a daily-record high of 46°F. Wet weather persisted across portions of **southern Alaska**, where **Cold Bay** attained a monthly record precipitation total for the third consecutive month. **Cold Bay's** December 1-9 total of 7.45 inches eclipsed their December 1983 standard of 7.31 inches, and boosted their year-to-date sum to 77.70 inches (216 percent of the annual normal).

National Weather Data for Selected Cities

Weather Data for the Week Ending December 9, 2000

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

STATES AND STATIONS	TEMPERATURE EF						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. EF		PRECIP	
																90 AND ABOVE	32 AND BELOW	0.1 INCH OR MORE	50 INCH OR MORE
AL BIRMINGHAM	51	30	63	25	41	-6	0.00	-1.13	0.00	0.00	0	48.21	95	88	47	0	4	0	0
AL HUNTSVILLE	48	29	57	24	38	-7	0.00	-1.32	0.00	0.00	0	39.29	74	90	69	0	7	0	0
AL MOBILE	59	37	71	28	48	-7	0.04	-1.14	0.02	0.06	4	41.99	70	89	56	0	3	2	0
AL MONTGOMERY	53	32	59	24	43	-8	0.21	-0.96	0.21	0.22	15	33.16	67	93	53	0	4	1	0
AK ANCHORAGE	32	23	42	8	28	11	0.20	-0.05	0.12	0.20	63	14.03	93	88	78	0	7	2	0
AK BARROW	-1	-8	8	-29	-4	6	0.01	-0.02	0.01	0.01	25	5.23	120	83	80	0	7	1	0
AK FAIRBANKS	14	-2	24	-22	6	11	0.04	-0.15	0.04	0.04	16	10.14	99	87	84	0	7	1	0
AK JUNEAU	38	32	43	22	35	7	2.63	1.64	1.81	3.09	241	67.81	133	97	93	0	2	5	2
AK KODIAK	41	30	46	24	36	5	1.56	0.10	0.64	1.67	89	54.90	88	88	80	0	5	5	2
AK NOME	29	19	35	2	24	15	0.54	0.35	0.22	0.54	216	19.30	135	86	77	0	7	5	0
AZ FLAGSTAFF	53	23	58	17	38	7	0.01	-0.53	0.01	0.01	1	15.64	74	87	29	0	7	1	0
AZ PHOENIX	74	50	77	48	62	7	0.00	-0.22	0.00	0.00	0	7.87	113	56	36	0	0	0	0
AZ TUCSON	73	44	77	41	59	6	0.00	-0.23	0.00	0.00	0	12.44	111	60	37	0	0	0	0
AZ YUMA	74	54	77	48	64	7	0.00	-0.09	0.00	0.00	0	1.93	68	44	36	0	0	0	0
AR FORT SMITH	49	28	57	23	39	-4	0.06	0.17	0.03	0.06	6	35.65	92	93	57	0	6	2	0
AR LITTLE ROCK	49	28	57	22	39	-6	0.04	-1.13	0.04	0.04	3	40.09	84	89	47	0	5	1	0
CA BAKERSFIELD	59	40	67	34	50	1	0.02	-0.12	0.02	0.02	11	4.98	94	92	75	0	0	1	0
CA FRESNO	56	42	64	36	49	2	0.03	-0.27	0.01	0.03	8	15.20	159	96	92	0	0	3	0
CA LOS ANGELES	69	55	75	48	62	4	0.02	-0.34	0.01	0.03	7	10.90	101	87	66	0	0	2	0
CA REDDING	61	35	68	30	48	2	0.01	-1.20	0.01	0.01	1	34.89	119	96	85	0	1	1	0
CA SACRAMENTO	54	42	63	39	48	1	0.03	-0.50	0.01	0.04	6	24.26	155	10	77	0	0	3	0
CA SAN DIEGO	69	54	76	46	62	4	0.12	-0.24	0.00	0.12	26	7.03	80	82	57	0	0	1	0
CA SAN FRANCISCO	59	48	63	44	53	3	0.01	-0.63	0.01	0.01	1	22.55	129	90	84	0	0	1	0
CA STOCKTON	53	41	65	38	47	1	0.04	-0.41	0.02	0.04	7	14.47	117	98	96	0	0	3	0
CO ALAMOSA	45	7	49	2	26	6	0.00	-0.11	0.00	0.00	0	4.86	67	71	43	0	7	0	0
CO CO SPRINGS	51	20	63	12	36	5	0.15	0.04	0.00	0.15	107	16.78	105	82	28	0	7	1	0
CO DENVER	50	23	58	13	36	4	0.01	-0.16	0.01	0.01	5	15.05	101	86	31	0	7	1	0
CO GRAND JUNCTION	46	22	48	18	34	3	0.00	-0.14	0.00	0.00	0	7.33	89	73	52	0	7	0	0
CO PUEBLO	56	15	66	10	35	2	0.00	-0.11	0.00	0.00	0	12.20	112	84	40	0	7	0	0
CT BRIDGEPORT	36	21	47	17	29	-8	0.01	-0.80	0.01	0.01	1	43.16	110	76	44	0	7	1	0
CT HARTFORD	34	14	48	8	24	-8	0.02	-0.89	0.02	0.02	2	40.09	97	76	41	0	7	1	0
DC WASHINGTON	43	28	52	22	35	-7	0.00	-0.72	0.00	0.00	0	38.00	104	66	38	0	6	0	0
DE WILMINGTON	40	24	48	19	32	-6	0.00	-0.80	0.00	0.00	0	42.23	110	78	36	0	7	0	0
FL DAYTONA BEACH	66	45	78	37	56	-5	0.00	-0.58	0.00	0.01	1	39.39	86	93	55	0	0	0	0
FL JACKSONVILLE	62	36	71	28	49	-8	0.00	-0.57	0.00	0.00	0	37.41	76	91	51	0	3	0	0
FL KEY WEST	74	66	78	61	70	-2	0.39	-0.09	0.39	0.39	63	33.35	87	87	74	0	0	1	0
FL MIAMI	78	63	81	55	70	0	0.12	-0.30	0.12	0.12	22	55.04	101	88	63	0	0	1	0
FL ORLANDO	70	48	80	43	59	-4	0.00	-0.50	0.00	0.00	0	28.81	62	88	57	0	0	0	0
FL PENSACOLA	60	41	74	32	50	-5	0.05	-0.88	0.05	0.18	15	39.56	67	92	62	0	2	1	0
FL TALLAHASSEE	62	35	74	24	49	-6	0.08	-1.03	0.08	0.08	6	41.94	68	87	49	0	4	1	0
FL TAMPA	71	50	81	40	60	-3	0.00	-0.48	0.00	0.00	0	28.50	67	90	54	0	0	0	0
FL WEST PALM	77	59	80	54	68	0	0.01	-0.62	0.01	0.01	1	40.01	68	88	62	0	0	1	0
GA ATHENS	51	28	62	22	40	-7	0.29	-0.60	0.16	0.33	29	32.26	69	89	54	0	6	2	0
GA ATLANTA	50	33	64	28	42	-4	0.25	-0.70	0.17	0.35	29	33.30	70	85	56	0	3	2	0
GA AUGUSTA	54	26	67	18	40	-9	0.22	-0.48	0.22	0.23	26	36.84	87	87	50	0	6	1	0
GA COLUMBUS	54	33	59	28	44	-6	0.31	-0.78	0.31	0.32	23	33.77	71	88	36	0	5	1	0
GA MACON	55	29	65	22	42	-8	0.32	-0.59	0.19	0.37	32	37.92	91	93	47	0	6	3	0
GA SAVANNAH	57	29	70	21	43	-10	0.59	-0.02	0.59	0.63	81	35.45	75	94	57	0	6	1	1
HI HILO	79	64	80	62	71	-2	0.64	-2.29	0.55	0.68	18	132.4	110	91	75	0	0	3	1
HI HONOLULU	82	67	84	66	75	0	0.01	-0.82	0.01	0.01	1	6.96	36	84	77	0	0	1	0
HI KAHULUI	83	61	84	59	72	-2	0.00	-0.68	0.00	0.00	0	9.13	49	88	76	0	0	0	0
HI LIHUE	81	70	82	67	75	1	0.08	-1.05	0.05	0.09	6	19.81	50	88	82	0	0	2	0
ID BOISE	35	27	43	23	31	-1	0.02	-0.28	0.01	0.02	5	11.26	101	95	89	0	7	2	0
ID LEWISTON	35	31	38	29	33	-3	0.03	-0.25	0.03	0.03	9	12.31	106	93	85	0	5	1	0
ID POCATELLO	37	18	41	13	27	0	0.13	-0.12	0.13	0.13	41	8.85	78	91	82	0	7	1	0
IL CHICAGO/O'HARE	30	14	37	2	22	-8	0.41	-0.20	0.00	0.42	52	31.66	93	81	61	0	7	2	0
IL MOLINE	32	14	41	8	23	-6	0.06	-0.48	0.05	0.18	26	35.81	95	81	65	0	7	2	0
IL PEORIA	34	18	43	12	26	-4	0.15	-0.45	0.00	0.23	30	25.54	74	84	54	0	7	1	0
IL ROCKFORD	29	11	36	1	20	-7	0.11	-0.40	0.01	0.20	30	42.05	121	89	73	0	7	2	0
IL SPRINGFIELD	38	18	51	14	28	-5	0.07	-0.59	0.07	0.10	12	30.41	91	81	59	0	7	1	0
IN EVANSVILLE	39	21	46	18	30	-8	0.12	-0.76	0.12	0.19	17	44.62	110	83	60	0	7	1	0
IN FORT WAYNE	31	14	34	1	23	-9	0.30	-0.39	0.18	0.31	35	34.80	106	91	69	0	7	2	0
IN INDIANAPOLIS	35	18	41	14	26	-8	0.13	-0.67	0.00	0.20	19	37.90	101	84	54	0	7	1	0
IN SOUTH BEND	31	15	35	5	23	-9	0.45	-0.33	0.09	0.45	45	35.27	96	85	68	0	7	3	0
IA BURLINGTON	35	16	47	9	26	-4	0.01	-0.48	0.01	0.08	13	31.40	90	83	53	0	7	1	0
IA CEDAR RAPIDS	29	11	39	4	20	-6	0.07	-0.33	0.06	0.13	25	31.61	97	95	70	0	7	2	0
IA DES MOINES	33	15	47	6	24	-4	0.05	-0.28	0.03	0.11	26	21.33	66	81	65	0	7	2	0
IA DUBUQUE	27	9	34	2	18	-7	0.14	-0.36	0.07	0.17	26	31.44	85	82	73	0	7	3	0
IA SIOUX CITY	32	17	43	8	24	-1	0.09	-0.10	0.07	0.12	48	23.24	92	83	71	0	7	2	0
IA WATERLOO	28	10	36	2	19	-5	0.34	0.01	0.06	0.38	88	36.60	111	81	73	0	7	3	0
KS CONCORDIA	45	26	63	20	35	3	0.01	-0.19	0.01	0.01	4	17.64	63	81	58	0	6	1	0
KS DODGE CITY	50	24	63	21	37	2	0.02	-0.15	0.02	0.02	10	21.11	100	86	41	0	7	1	0
KS GOODLAND	49	21	61	16	35	4	0.00	-0.11	0.00	0.00	0	18.50	103	83	49	0	7	0	0
KS TOPEKA	45	25	63	14	35	2	0.00	-0.35	0.00	0.12	26	27.12	79	74	50	0	6	0	0

Weather Data for the Week Ending December 9, 2000

STATES AND STATIONS	TEMPERATURE EF						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. EF		PRECIP	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
KY WICHITA	48	24	59	18	36	0	0.01	-0.29	0.01	0.01	3	31.47	110	86	57	0	7	1	0
KY JACKSON	37	23	44	17	30	-10	0.19	-0.83	0.19	0.32	24	42.05	90	87	52	0	7	1	0
KY LEXINGTON	36	18	43	11	27	-11	0.01	-0.92	0.01	0.05	4	38.45	92	98	77	0	7	1	0
KY LOUISVILLE	38	23	45	20	31	-8	0.02	-0.84	0.02	0.19	17	45.39	108	80	51	0	7	1	0
LA PADUCAH	41	24	49	22	33	-7	0.17	-0.93	0.13	0.22	15	46.05	100	90	49	0	7	3	0
LA BATON ROUGE	58	35	67	30	47	-8	0.17	-1.06	0.17	0.99	63	36.36	64	92	44	0	3	1	0
LA LAKE CHARLES	57	37	68	33	47	-8	0.45	-0.67	0.44	0.55	38	50.34	98	90	59	0	0	2	0
LA NEW ORLEANS	58	43	68	36	50	-6	0.31	-0.97	0.31	0.56	34	36.75	64	82	67	0	0	1	0
LA SHREVEPORT	54	33	62	29	43	-7	0.00	-0.95	0.00	0.02	2	50.34	116	94	53	0	4	0	0
ME CARIBOU	22	5	34	-9	13	-5	0.00	-0.77	0.00	0.00	0	34.59	101	86	57	0	7	0	0
ME PORTLAND	33	11	45	4	22	-7	0.00	-1.10	0.00	0.00	0	36.17	88	70	33	0	7	0	0
MD BALTIMORE	42	24	50	16	33	-6	0.00	-0.77	0.00	0.00	0	39.61	103	62	40	0	7	0	0
MA BOSTON	35	21	48	16	28	-8	0.15	-0.79	0.00	0.15	13	41.24	107	77	39	0	7	1	0
MA WORCESTER	30	15	42	9	23	-7	0.04	-0.90	0.04	0.04	3	40.69	91	71	34	0	7	1	0
MI ALPENA	27	9	36	1	18	-9	0.32	-0.15	0.04	0.33	54	24.87	91	89	65	0	7	5	0
MI GRAND RAPIDS	28	16	35	11	22	-8	0.14	-0.56	0.05	0.14	15	41.10	121	88	69	0	7	5	0
MI HOUGHTON LAKE	26	11	33	2	18	-8	0.42	-0.05	0.01	0.46	75	25.37	94	87	72	0	7	4	0
MI LANSING	28	11	35	0	20	-9	0.13	-0.44	0.02	0.13	18	31.22	108	90	75	0	7	3	0
MI MUSKOGON	31	19	39	16	25	-6	0.43	-0.29	0.08	0.43	47	34.68	114	84	72	0	7	4	0
MI TRAVERSE CITY	27	17	36	11	22	-6	0.19	-0.31	0.06	0.19	30	29.97	106	91	67	0	7	5	0
MN DULUTH	16	1	31	-7	9	-7	0.01	-0.29	0.01	0.01	3	30.53	105	88	72	0	7	1	0
MN INT'L FALLS	14	-3	33	-11	6	-5	0.16	-0.03	0.03	0.16	64	22.83	96	85	69	0	7	3	0
MN MINNEAPOLIS	22	7	35	-2	14	-8	0.15	-0.11	0.08	0.17	50	29.27	106	79	68	0	7	4	0
MN ROCHESTER	23	4	33	-3	13	-8	0.18	-0.08	0.03	0.21	62	41.22	142	85	76	0	7	3	0
MN ST. CLOUD	20	5	34	-7	12	-6	0.04	-0.16	0.03	0.04	15	20.50	76	85	68	0	7	2	0
MS JACKSON	54	29	65	25	42	-8	0.16	-1.16	0.00	0.25	15	38.97	76	91	47	0	6	1	0
MS MERIDIAN	56	29	66	23	42	-8	0.00	-1.35	0.00	0.09	5	34.41	66	91	57	0	5	0	0
MS TUPELO	50	26	60	22	38	-8	0.00	-1.39	0.00	0.00	0	39.62	77	89	63	0	7	0	0
MO COLUMBIA	41	21	60	19	31	-4	0.04	-0.58	0.03	0.08	10	38.73	104	84	43	0	7	2	0
MO KANSAS CITY	43	25	62	15	34	1	0.00	-0.39	0.00	0.02	4	34.16	93	79	44	0	7	0	0
MO SAINT LOUIS	41	23	58	19	32	-5	0.02	-0.73	0.02	0.09	9	36.12	102	82	56	0	7	1	0
MO SPRINGFIELD	43	24	57	14	33	-5	0.10	-0.69	0.08	0.25	24	34.03	83	83	51	0	7	2	0
MT BILLINGS	38	21	44	-5	29	2	0.03	-0.14	0.03	0.03	14	11.50	79	76	53	0	7	1	0
MT BUTTE	30	3	39	-5	16	-3	0.00	-0.10	0.00	0.00	0	8.74	74	91	61	0	7	0	0
MT GLASGOW	33	13	41	-15	23	5	0.08	0.00	0.08	0.08	73	13.68	128	89	78	0	7	1	0
MT GREAT FALLS	40	19	50	-4	30	4	0.08	-0.10	0.08	0.08	35	9.68	66	80	45	0	6	1	0
MT KALISPELL	30	19	36	9	24	0	0.12	-0.27	0.12	0.13	27	9.17	60	94	85	0	7	1	0
MT MILES CITY	31	11	41	-11	21	-1	0.13	-0.01	0.00	0.13	72	12.08	89	93	72	0	7	1	0
MT MISSOULA	31	14	42	12	23	-2	0.03	-0.22	0.03	0.03	10	11.39	90	94	86	0	7	1	0
NE GRAND ISLAND	40	23	55	18	32	4	0.01	-0.18	0.01	0.12	50	19.51	80	84	66	0	7	1	0
NE LINCOLN	42	19	59	11	30	2	0.00	-0.22	0.00	0.18	62	22.75	82	79	53	0	7	0	0
NE NORFOLK	37	21	51	11	29	3	0.00	-0.19	0.00	0.00	0	23.48	95	77	65	0	7	0	0
NE NORTH PLATTE	44	21	59	15	32	5	0.00	-0.11	0.00	0.00	0	16.28	86	92	55	0	7	0	0
NE OMAHA	40	21	58	12	31	3	0.05	-0.20	0.05	0.18	55	26.34	90	80	65	0	7	1	0
NE SCOTTSBLUFF	48	20	53	13	34	6	0.00	-0.14	0.00	0.00	0	14.36	96	81	55	0	7	0	0
NE VALENTINE	42	18	51	7	30	5	0.00	-0.09	0.00	0.00	0	19.32	107	84	63	0	7	0	0
NV ELY	49	22	56	20	36	9	0.00	-0.17	0.00	0.00	0	10.02	104	89	65	0	7	0	0
NV LAS VEGAS	64	42	66	38	53	6	0.00	-0.08	0.00	0.00	0	3.44	89	51	36	0	0	0	0
NV RENO	51	26	57	21	38	4	0.00	-0.22	0.00	0.00	0	6.32	93	84	68	0	7	0	0
NV WINNEMUCCA	50	16	53	12	33	2	0.02	-0.19	0.02	0.02	7	9.58	126	91	71	0	7	1	0
NH CONCORD	33	7	45	1	20	-7	0.00	-0.76	0.00	0.00	0	35.65	104	73	31	0	7	0	0
NJ NEWARK	38	25	47	20	31	-8	0.00	-0.80	0.00	0.00	0	39.13	94	64	37	0	7	0	0
NM ALBUQUERQUE	53	30	56	27	41	4	0.00	-0.11	0.00	0.00	0	8.02	94	78	40	0	6	0	0
NY ALBANY	30	12	40	6	21	-9	0.11	-0.59	0.00	0.11	12	42.63	125	83	49	0	7	1	0
NY BINGHAMTON	26	12	35	9	19	-10	0.05	-0.67	0.05	0.05	5	42.44	122	80	60	0	7	1	0
NY BUFFALO	28	16	37	12	22	-10	0.62	-0.26	0.32	0.63	56	39.35	109	91	58	0	7	4	0
NY ROCHESTER	30	15	42	8	23	-9	0.27	-0.38	0.16	0.36	43	33.98	113	87	63	0	7	5	0
NY SYRACUSE	28	13	39	6	21	-10	0.25	-0.53	0.10	0.31	31	34.30	93	86	54	0	7	4	0
NC ASHEVILLE	44	23	55	18	34	-7	0.20	-0.61	0.20	0.20	19	33.42	74	93	66	0	7	1	0
NC CHARLOTTE	50	26	63	18	38	-7	0.00	-0.77	0.00	0.02	2	33.72	83	80	32	0	5	0	0
NC GREENSBORO	47	26	57	21	36	-7	0.00	-0.74	0.00	0.01	1	37.55	93	70	35	0	7	0	0
NC HATTERAS	50	41	59	37	45	-6	0.38	-0.62	0.38	0.58	45	53.87	102	89	66	0	0	1	0
NC RALEIGH	49	25	63	19	37	-8	0.00	-0.72	0.00	0.03	3	37.65	96	71	41	0	6	0	0
NC WILMINGTON	52	30	64	25	41	-10	0.19	-0.60	0.14	0.58	57	52.73	102	98	51	0	5	2	0
ND BISMARCK	33	8	40	-7	21	4	0.04	-0.07	0.02	0.07	50	22.87	151	85	71	0	7	2	0
ND DICKINSON	33	10	39	-10	22	2	0.10	0.02	0.09	0.17	155	15.96	101	95	69	0	7	2	0
ND FARGO	22	-3	35	-17	9	-6	0.11	-0.03	0.01	0.11	61	33.90	179	87	71	0	7	2	0
ND GRAND FORKS	21	-2	35	-12	9	-5	0.27	0.13	0.08	0.27	150	24.49	137	88	66	0	7	4	0
ND JAMESTOWN	26	1	34	-10	13	-3	0.23	0.12	0.00	0.23	164	23.02	139	95	74	0	7	2	0
ND WILLISTON	31	8	38	-14	20	4	0.16	0.03	0.05	0.27	169	18.98	143	88	77	0	7	4	0
OH AKRON-CANTON	29	15	34	10	22	-11	0.31	-0.39	0.20	0.32	35	42.86	123	89	66	0	7	3	0
OH CINCINNATI	37	19	45	15	28	-8	0.00	-0.75	0.00	0.04	4	42.67	109	78	54	0	7	0	0
OH CLEVELAND	31	18	35	14	24	-10	0.36	-0.38	0.19	0.42	44	38.25	111	90	70	0	7	5	0
OH COLUMBUS	33	18	37	14	26	-9	0.05	-0.64	0.05	0.21	23	39.47	109	83	60	0	7	1	0
OH DAYTON	33	16	37	11	24	-10	0.01	-0.69	0.01	0.12	13	32.03	93	88	58	0	7	1	0
OH MANSFIELD	28	14	33	4	21	-12	0.07	-0.69	0.07	0.08	8	37.33	99	90	64	0	7	1	0

Based on 1961-90 normals

\*\*\* Not Available

## Weather Data for the Week Ending December 9, 2000

STATES AND STATIONS	TEMPERATURE EF						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. EF		PRECIP	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
OK	31	13	36	0	22	-9	0.20	-0.51	0.20	0.20	22	36.35	117	88	65	0	7	1	0
OK	30	17	38	9	24	-8	0.35	-0.35	0.11	0.38	42	33.97	96	82	64	0	7	4	0
OK	49	28	59	22	39	-3	0.03	-0.32	0.03	0.03	7	36.77	113	93	55	0	6	1	0
OR	48	29	60	18	38	-3	0.13	-0.42	0.08	0.13	18	39.56	101	90	63	0	6	2	0
OR	52	37	56	31	45	2	0.14	-2.26	0.10	0.84	27	46.65	79	96	89	0	1	2	0
OR	41	19	45	17	30	3	0.00	-0.28	0.00	0.00	0	10.21	111	94	83	0	7	0	0
OR	44	33	48	30	39	-3	0.08	-1.90	0.08	0.23	9	33.98	78	99	95	0	5	1	0
OR	40	33	48	30	37	-2	0.01	-0.76	0.01	0.01	1	17.84	108	10	95	0	3	1	0
OR	33	29	41	28	31	-5	0.00	-0.38	0.00	0.00	0	15.69	144	95	91	0	7	0	0
OR	46	33	50	29	40	-1	0.07	-1.32	0.06	0.49	28	27.23	85	93	82	0	3	2	0
PA	46	30	51	25	38	-3	0.05	-1.52	0.04	0.48	24	26.94	78	10	91	0	5	2	0
PA	36	17	45	11	27	-8	0.03	-0.79	0.03	0.03	3	39.69	97	83	45	0	7	1	0
PA	30	20	38	13	25	-9	0.77	-0.11	0.17	0.79	69	44.60	114	83	63	0	7	5	0
PA	36	21	43	16	29	-7	0.00	-0.76	0.00	0.00	0	38.24	100	78	50	0	7	0	0
PA	39	26	47	21	33	-5	0.00	-0.77	0.00	0.00	0	41.43	106	73	45	0	7	0	0
PA	32	17	39	10	24	-10	0.23	-0.43	0.03	0.34	40	37.80	109	83	49	0	7	3	0
PA	31	17	39	9	24	-9	0.18	-0.43	0.05	0.18	23	33.50	97	83	47	0	7	2	0
RI	33	17	41	12	25	-9	0.08	-0.65	0.08	0.08	8	39.36	102	82	55	0	7	1	0
RI	36	19	49	15	28	-7	0.02	-1.00	0.02	0.02	2	41.07	97	61	34	0	7	1	0
SC	54	33	66	27	44	-10	0.62	-0.05	0.42	0.66	78	33.76	69	96	44	0	4	2	0
SC	54	32	66	23	43	-10	0.78	0.11	0.58	0.82	96	44.12	90	88	48	0	3	2	1
SD	53	27	66	20	40	-9	0.13	-0.62	0.08	0.13	14	35.36	75	80	43	0	7	2	0
SD	50	28	64	19	39	-6	0.13	-0.79	0.12	0.30	25	33.39	69	76	37	0	5	2	0
SD	27	-1	36	-14	13	-6	0.06	-0.05	0.05	0.06	43	26.90	147	90	79	0	7	2	0
SD	30	7	41	-2	19	-2	0.04	-0.07	0.01	0.16	114	19.89	101	93	73	0	7	4	0
SD	42	15	61	3	29	3	0.00	-0.11	0.00	0.00	0	16.51	101	88	56	0	7	0	0
TN	28	9	38	-1	19	-2	0.15	-0.03	0.03	0.20	87	25.75	110	85	76	0	7	2	0
TN	42	20	54	14	31	-9	0.14	-0.62	0.14	0.14	14	34.10	89	94	54	0	7	1	0
TX	49	30	58	26	40	-3	0.31	-0.85	0.31	0.71	48	46.78	94	91	67	0	5	1	0
TX	44	29	53	26	37	-5	0.27	-0.74	0.27	0.41	32	45.00	103	94	65	0	6	1	0
TX	48	31	56	25	40	-6	0.00	-1.37	0.00	0.00	0	34.41	72	79	48	0	5	0	0
TX	42	27	51	24	34	-9	0.01	-1.06	0.01	0.03	2	39.03	89	85	57	0	7	1	0
TX	51	35	66	31	43	-4	0.01	-0.24	0.01	0.01	3	21.25	90	88	64	0	2	1	0
TX	53	28	64	23	40	1	0.00	-0.11	0.00	0.00	0	16.93	88	90	37	0	7	0	0
TX	57	36	67	26	46	-8	0.12	-0.32	0.07	0.14	24	28.56	93	87	68	0	2	3	0
TX	59	39	68	34	49	-7	0.28	-0.79	0.28	0.35	25	44.53	83	91	51	0	0	1	0
TX	63	46	80	41	55	-9	0.37	0.09	0.28	0.65	186	15.75	61	94	72	0	0	3	0
TX	62	43	78	34	52	-8	0.17	-0.11	0.15	0.22	63	23.23	80	88	68	0	0	3	0
TX	58	38	68	30	48	-6	0.19	0.05	0.19	0.21	111	17.73	99	90	65	0	1	1	0
TX	58	33	64	28	46	0	0.08	-0.06	0.08	0.12	71	7.11	85	75	36	0	3	1	0
TX	54	36	62	28	45	-4	0.04	-0.39	0.04	0.04	7	30.10	93	90	56	0	2	1	0
TX	57	47	67	43	52	-6	0.33	-0.47	0.20	0.33	32	38.08	96	84	58	0	0	4	0
TX	59	38	69	34	49	-6	0.39	-0.41	0.37	0.40	39	45.34	104	95	69	0	0	3	0
TX	54	29	67	27	42	0	0.01	-0.13	0.01	0.01	6	20.36	111	91	62	0	7	1	0
TX	52	34	69	30	43	-3	0.06	-0.08	0.06	0.16	89	9.48	65	87	62	0	3	1	0
TX	53	35	72	27	44	-4	0.13	-0.06	0.12	0.26	104	14.85	75	93	68	0	2	2	0
TX	57	38	71	30	47	-7	0.23	-0.14	0.23	0.23	47	34.52	115	94	58	0	1	1	0
TX	60	41	75	33	50	-7	0.19	-0.28	0.11	0.19	32	34.16	95	92	70	0	0	3	0
TX	56	35	66	30	46	-4	0.01	-0.43	0.01	0.01	2	35.25	115	89	60	0	1	1	0
TX	51	33	65	30	42	-3	0.00	-0.30	0.00	0.00	0	24.53	88	84	54	0	4	0	0
UT	45	24	48	22	35	3	0.00	-0.33	0.00	0.00	0	14.85	98	92	57	0	7	0	0
VT	26	11	37	0	18	-8	0.02	-0.57	0.02	0.04	5	35.31	108	74	47	0	7	1	0
VA	43	19	51	10	31	-10	0.00	-0.74	0.00	0.00	0	33.26	86	76	36	0	7	0	0
VA	46	31	59	23	39	-7	0.03	-0.66	0.03	0.03	3	48.47	115	85	48	0	4	1	0
VA	45	25	57	20	35	-7	0.00	-0.73	0.00	0.00	0	40.86	100	69	45	0	7	0	0
VA	43	25	53	14	34	-6	0.01	-0.68	0.01	0.01	1	35.94	92	65	40	0	6	1	0
WA	41	20	51	12	31	-7	0.00	-0.74	0.00	0.00	0	34.06	90	68	40	0	7	0	0
WA	45	30	50	27	38	-1	0.13	-1.72	0.05	0.60	25	38.24	85	97	92	0	6	6	0
WA	49	30	55	29	39	-2	0.14	-3.39	0.07	1.68	37	82.29	87	99	95	0	7	4	0
WA	46	35	51	30	40	-1	0.13	-1.22	0.08	0.55	31	26.65	81	96	87	0	1	3	0
WA	29	24	33	14	27	-2	0.12	-0.43	0.01	0.12	17	13.63	92	96	86	0	7	2	0
WA	34	29	35	24	31	0	0.00	-0.31	0.00	0.00	0	5.88	85	90	84	0	7	0	0
WV	37	18	44	11	27	-9	0.00	-0.74	0.00	0.02	2	37.90	98	81	55	0	7	0	0
WV	40	22	45	15	31	-8	0.12	-0.68	0.00	0.14	14	36.69	91	82	42	0	7	1	0
WV	38	17	45	7	27	-7	0.18	-0.62	0.02	0.20	19	42.65	101	87	35	0	7	2	0
WI	39	21	43	13	30	-9	0.00	-0.77	0.00	0.04	4	36.50	93	77	43	0	7	0	0
WI	19	0	34	-5	10	-10	0.08	-0.18	0.05	0.08	24	39.08	127	89	65	0	7	2	0
WI	23	6	33	-5	15	-9	0.11	-0.27	0.07	0.11	22	30.22	109	82	65	0	7	4	0
WI	24	7	36	2	16	-8	0.17	-0.14	0.00	0.22	54	30.72	103	86	60	0	7	1	0
WI	26	8	35	0	17	-8	0.11	-0.34	0.05	0.19	32	39.08	132	80	68	0	7	3	0
WI	28	12	36	0	20	-8	0.06	-0.50	0.06	0.10	14	42.58	136	77	61	0	7	1	0
WY	38	17	42	8	28	3	0.03	-0.14	0.03	0.03	14	10.38	86	75	58	0	7	1	0
WY	45	23	51	16	34	5	0.08	-0.03	0.08	0.08	57	12.91	91	65	44	0	7	1	0
WY	33	12	45	7	22	-1	0.11	-0.03	0.11	0.11	61	8.49	67	87	74	0	7	1	0
WY	40	18	58	0	29	4	0.12	-0.05	0.01	0.13	62	13.40	96	80	62	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.

## November Weather and Crop Summary

### Weather

*Weather summary provided by USDA/WAOB*

Heavy rain in the South eased or eradicated long-term drought and benefited pastures and winter grains, but slowed fieldwork. On the southern Plains, cool weather and soaking early-month rains hampered winter wheat planting and emergence, and cotton and soybean harvesting. Although drier weather after mid-month allowed fieldwork to gradually resume on the southern High Plains, rain shifted eastward, drenching areas from eastern Texas to the Carolinas. However, most of Florida's peninsula remained unfavorably dry, increasing irrigation requirements. Farther north, occasional, generally light precipitation provided only limited relief from a 2-month dry spell from the Mid-Atlantic region westward into the middle Ohio Valley. Precipitation was also below normal in much of California and the Northwest, despite a late-month increase in storm activity.

Between a brief, early-month warm spell and a late-month warming trend, the Nation experienced a very cold November. Monthly temperatures averaged as much as 15°F below normal in the northern Rockies and northern Plains. The coldest conditions shifted from the West early in the month to nearly nationwide by mid-November. A series of storm systems provided extensive snow cover in areas from the Southwest to the northern half of the Plains, insulating winter wheat from extreme cold in the latter region. Sub-zero temperatures were primarily confined to areas with a blanket of snow, while sub-freezing readings edged into areas as far south as southern California and along the Gulf Coast from Louisiana to northern Florida. Impacts from the cold were relatively minor, however, and temperatures remained well above the freezing mark in Florida's citrus belt.

As the month opened, a strong system brought sharply contrasting conditions to the Nation's mid-section. On the 1<sup>st</sup>, Lead, SD received 31.9 inches of snow, their greatest 1-day total on record during November. In North Dakota, Williston received enough precipitation (2.36 inches) during the first 2 days of the month to break their November record (previously 2.10 inches in 1896). Williston closed the month with 3.31 inches (736 percent of normal), including 21.2 inches of snow. Duluth, MN collected 5.08 inches (282 percent of normal) during November, second only to a 5.38-inch sum in November 1996.

Farther east, however, the month began on a warm note, with several locations registering November-record highs on the 1<sup>st</sup>. Among them were Memphis, TN (86°F), Birmingham, AL (85°F), and Moline, IL (80°F). Meanwhile in North Dakota, five confirmed tornadoes on the 1<sup>st</sup> near Bismarck marked the State's latest tornado activity, previously recorded on October 11, 1979.

Meanwhile in the South, near-record to record rainfall totals affected areas from Texas to the lower Mississippi Valley. Tyler, TX netted a monthly rainfall of 13.32 inches, surpassing their November 1946 record of 12.09 inches. In nearby Lufkin, TX, the November sum of 16.05 inches was second only to a 20.12 inch total in November 1940. New Orleans, LA finished

the month with 11.72 inches (265 percent of normal), their wettest November since 15.27 inches fell in 1992. Elsewhere in Louisiana, Shreveport received measurable rainfall on 19 days during the month, breaking their November 1957 record of 17 days and representing their highest monthly number since 19 days in May 1991. Little Rock, AR recorded 11.16 inches (216 percent of normal) during November, their first monthly total greater than 10 inches since April 1991. San Antonio, TX collected 8.59 inches (328 percent of normal), their highest November total since 9.16 inches fell in 1874.

### Record-High November Precipitation (Inches)

<u>Location</u>	<u>Total</u>	<u>Normal</u>	<u>Previous Record/Year</u>
Tyler, TX	13.32	4.38	12.09 in 1946
Cold Bay, AK	12.22	6.00	8.94 in 1960
Williston, ND	3.31	0.45	2.10 in 1896
Aberdeen, SD	2.87	0.59	2.36 in 1977

In the North-Central States, the passage of several late-month storm systems capped the very snowy month. Snowfall in Aberdeen, SD totaled 4.8 inches on the 28<sup>th</sup> and 10.5 inches on the 30<sup>th</sup>, boosting their November total to a record-setting 30.5 inches. Their previous November record, 30.1 inches, was established in 1993. Elsewhere in the region, November snowfall reached 22.1 inches in Huron, SD, 21.2 inches in Williston, ND (tying their November 1933 record), 17.6 inches in Glasgow, MT, and 16.5 inches in Lander, WY. Glasgow received a record-setting 24-hour snowfall of 12.1 inches on November 5-6, breaking their March 1987 record. Significant snowfall also blanketed parts of the Intermountain West and Southwest, totaling 17.0 inches in Salt Lake City, UT and 15.7 inches in Flagstaff, AZ. During the first half of the month, snow also fell on the Plains as far south as Texas, where monthly totals included 8.9 inches in Amarillo and 4.4 inches in Lubbock. Most of the southern Plains' snow fell on the 7<sup>th</sup>. On the 19<sup>th</sup>, enough snow fell in the Southeast to establish a November record in Greenville-Spartanburg, SC (2.5 inches) and tie the November 1968 standard in Charlotte, NC (2.5 inches).

Heavy snow fell in the Great Lakes region, where monthly totals reached 42.2 inches in Erie, PA and 45.6 inches (a November record) in Buffalo, NY. More than 43 inches of Buffalo's snow fell between November 14 and 22, including their third greatest 24-hour snowfall (24.9 inches) on the 20<sup>th</sup>. On the same day in Michigan, Grand Rapids received 11.5 inches, their snowiest November day on record, en route to a monthly total of 23.0 inches.

Persistent cold accompanied the stormy weather. Lander, WY noted a monthly average temperature of 16.0°F (15.2°F below normal), breaking their November 1985 record of 17.8°F. Ely, NV also recorded their coldest November with an average temperature of 25.8°F (8.4°F below normal). In Nebraska, North Platte's average temperature of 24.6°F (10.8°F below normal) tied their record set in November 1880 and 1985. Locations such as Goodland, KS (7.6°F below normal) and Denver, CO (8.7°F below normal) notched their second-coldest November, behind 1929 and 1880, respectively. In Arizona, Flagstaff (6.0°F below normal) had their coldest November since 1972, while Phoenix recorded below-normal temperatures on 30 consecutive days from October 22 - November 20.

November low-temperature records were set or tied in locations such as Wheatland, WY (-18°F on November 12), Alliance, NE (-14°F on November 12), and Massena, NY (-8°F on November 24). In eastern Washington, Spokane tallied their earliest sub-zero temperature on record (-2°F on November 11), breaking their record previously established on November 13, 1959.

#### Lowest November Average Temperature (°F)

Location	Avg.	Dep.	Former Record/Year
Lander, WY	16.0	-15.2	17.8 in 1985
N. Platte, NE	24.6	-10.8	24.6 in 1880 and 1985
Ely, NV	25.8	-8.4	26.3 in 1994

After a quiet start to the wet season in the Pacific Northwest, late-November storm systems brought beneficial precipitation and boosted high-elevation snow packs. Nevertheless, November precipitation totaled just 0.98 inch (19 percent of normal) in Redding, CA, 1.61 inches (19 percent) in Eugene, OR and 5.61 inches (38 percent) in Quillayute, WA. According to SNOTEL data from USDA's Natural Resources Conservation Service, October-November precipitation totaled generally 40 to 60 percent of normal in the Cascades and Sierra Nevada.

Dry weather also persisted in Florida's peninsula, where November precipitation was as low as a trace (1.57 inches below normal) in Ft. Myers, 0.28 inch (7 percent of normal) in Miami Beach, and 0.36 inch (12 percent) in Melbourne. Year-to-date rainfall deficits rose to 18.30 inches in West Palm Beach and 17.17 inches in Orlando. Tampa's year-to-date rainfall stood at 28.46 inches (68 percent of normal) through November, leaving the city with a chance to break a record for its lowest annual precipitation (28.89 inches in 1956).

Dryness lingered early in the month in the Southeast, contributing to the spread of several wildfires. On the 4<sup>th</sup>, record-setting spells without measurable precipitation ended in locations such as Raleigh-Durham, NC (38 days from September 27 to November 3) and Norfolk, VA (33 days from October 2 to November 3). The largest fires, which were mostly contained by mid-month, burned about 35,000 acres in southeastern Kentucky and nearly 25,000 acres in western Virginia, according to the National Interagency Fire Center. Nationally, the year-to-date burned acreage topped 7.3 million acres (about twice the 10-year normal), representing the most active wildfire season in more than 4 decades.

Despite a brief, late-month cold snap, monthly temperatures averaged up to 9°F above normal in Alaska. Fairbanks (5.9°F above normal) experienced their first month with above-normal temperatures since June. Nome (7.4°F above normal) noted their mildest November since 1979. Heavy precipitation accompanied the mild weather across western and southern Alaska. Kodiak received 9.59 inches of rain (161 percent of normal), but experienced their least-snowy November (a trace, tied with 1929). For the second consecutive month, Cold Bay weathered their wettest month on record. Following October's 10.12-inch soaking, 12.22 inches (204 percent of normal) deluged Cold Bay during November.

In Hawaii, the month opened with one of the greatest deluges in State history but ended on a tranquil note. The heaviest rain fell across eastern Hawaii, where Hilo (on the Big Island) was inundated by 27.24 inches in 24 hours on November 1-2. Their previous record for a 24-hour period was 22.30 inches on

February 19-20, 1979. Long-term rainfall deficits persisted, however, in some leeward sections of the Hawaiian Islands. For example, Honolulu, Oahu, netted 2.09 inches (70 percent of normal) during November, leaving their year-to-date total at 6.92 inches (38 percent).

### Fieldwork

*Fieldwork summary provided by USDA/NASS*

The harvest season ended ahead of normal in the Corn Belt, aided by mostly dry weather. In the southern Great Plains, rain delayed winter wheat seeding, but boosted moisture supplies and assisted emergence. In the central and northern Great Plains, rain and snow increased top soil moisture, but cold weather limited winter wheat emergence. On the Atlantic Coastal Plains, dry weather aided row crop harvest and winter grain seeding early in the month, while rain reduced moisture shortages and stimulated winter grain emergence after mid-month. Fieldwork continued with few interruptions in California and Florida. Some crops remained unharvested in the mid-Atlantic States and Northeast.

Winter wheat seeding slowly progressed, as a variety of winter storms frequently halted fieldwork. Wet weather limited planting progress in parts of Kansas, Oklahoma, and Texas early in the month, but planting continued with few delays on the High Plains. In Oklahoma, just two-thirds of the crop was seeded on November 12, compared with 97 percent normally planted by that date. Seeding slowly accelerated in the southern Great Plains after mid-month, as wet soils gradually dried enough to support machinery. In the Corn Belt, where rain delays were shorter and less frequent, winter wheat seeding was nearly complete by mid-month. Seeding accelerated on the Atlantic Coastal Plains early in the month and rapidly progressed through the remainder of the month. In North Carolina, planting progressed from 41 percent complete on November 5 to 80 percent complete on November 26. Mostly dry weather aided planting in California, where seeding advanced well ahead of the 5-year average until mid-month. In Arkansas, the seeding pace was ahead of the 5-year average when the month began and remained ahead of normal until late in the month, despite occasional rain delays.

Below-normal temperatures hindered emergence and growth of winter grains most of the month. A few fields emerged in the northern Great Plains before mid-month, but frigid temperatures virtually halted emergence after mid-month. In the central Great Plains and Corn Belt, brief periods of warm weather and adequate moisture supplies aided germination and emergence. Frequent rains, some heavy, replenished moisture supplies and promoted germination and growth in the lower Mississippi Valley and adjacent parts of the southern Great Plains and Southeast. Soil moisture shortages hindered germination, emergence, and growth of winter grains on the Atlantic Coastal Plains until soaking rains eased dryness after mid-month. In California and the Pacific Northwest, the cold weather suppressed growth of winter grains, but moisture supplies were mostly adequate to support development.

The Nation's corn harvest neared completion more than 1 week ahead of normal, with 95 percent of the crop out of the fields by November 12. However, harvest slipped slightly behind last year's fast pace, as increasing storage shortages and occasional rain delays limited progress. Harvest remained active in the

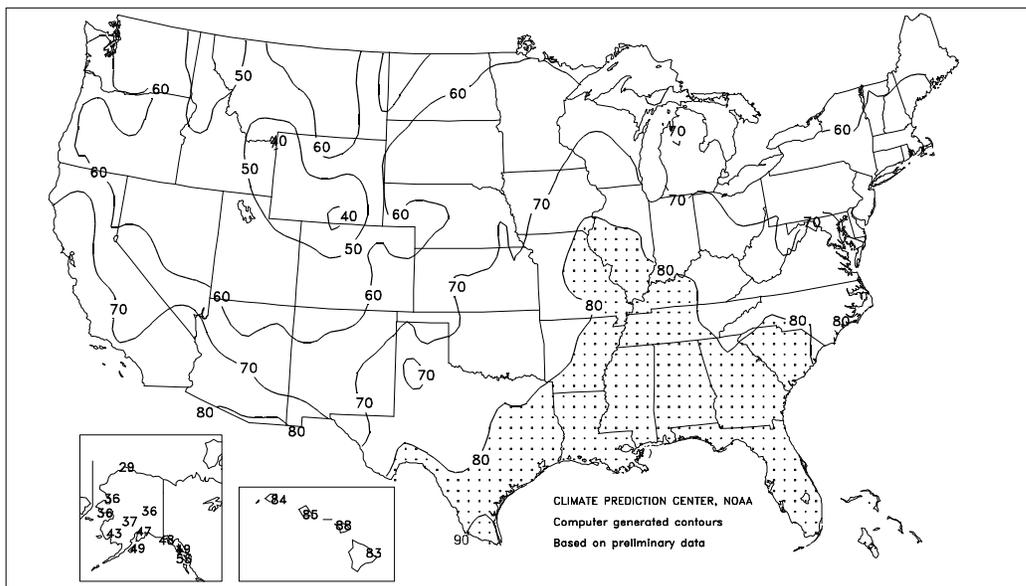
Great Lakes region and eastern Corn Belt during the first half of the month. In Michigan, growers harvested more than one-third of their crop during the first 2 weeks of the month. Harvest advanced ahead of normal in Ohio and Wisconsin, where growers harvested 10 and 12 percent of their crop, respectively, during the week ending November 12. Harvest fell well behind normal in North Dakota, where an early-month mixture of wintery precipitation delayed progress. Harvest also progressed well behind normal in Pennsylvania. The harvest season ended ahead of normal in Kentucky and North Carolina.

The cotton harvest was about 1 week ahead of last year and the 5-year average when the month began, but rain and frozen precipitation limited progress, especially before mid-month. Harvest progressed with few delays on the High Plains and gradually accelerated elsewhere in the Great Plains and interior Mississippi Delta after mid-month, as soils and cotton bolls slowly dried. Harvest progress remained ahead of normal in Oklahoma, but lagged throughout the month in Texas. Dry weather aided early-month harvest progress on the Atlantic Coastal Plains, where Virginia and North Carolina growers picked 27 and 20 percent of their crop, respectively, during the week ending November 12. The harvest pace was slower in Alabama, Georgia, and South Carolina, but progress remained ahead of normal throughout the month. On November 26, the crop was 85 percent harvested, equal to last year and the 5-year average. Picking progressed ahead of normal in the Southwest.

The soybean harvest was 95 percent complete on November 5, slightly behind last year's pace, but ahead of the 92-percent average for this date. Harvest rapidly progressed in Michigan, but very little acreage remained to be harvested in the rest of the Corn Belt. Harvest remained active in Arkansas, despite brief rain delays. Dry weather aided harvest progress on the Atlantic Coastal Plains. The sorghum crop was 94 percent harvested on November 5, more than 1 week ahead of last year's progress and about 3 weeks ahead of the average for that date. Harvest was active on the High Plains, especially in Colorado and New Mexico. Rain hindered harvest progress in Oklahoma and Texas until after mid-month.

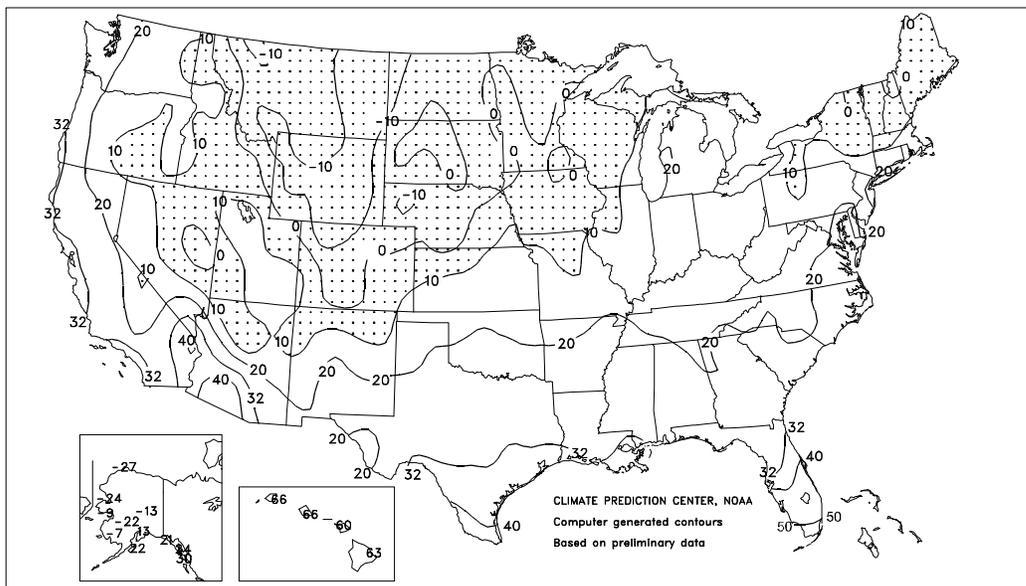
Extreme Maximum Temperature (°F)

NOV 2000



Extreme Minimum Temperature (°F)

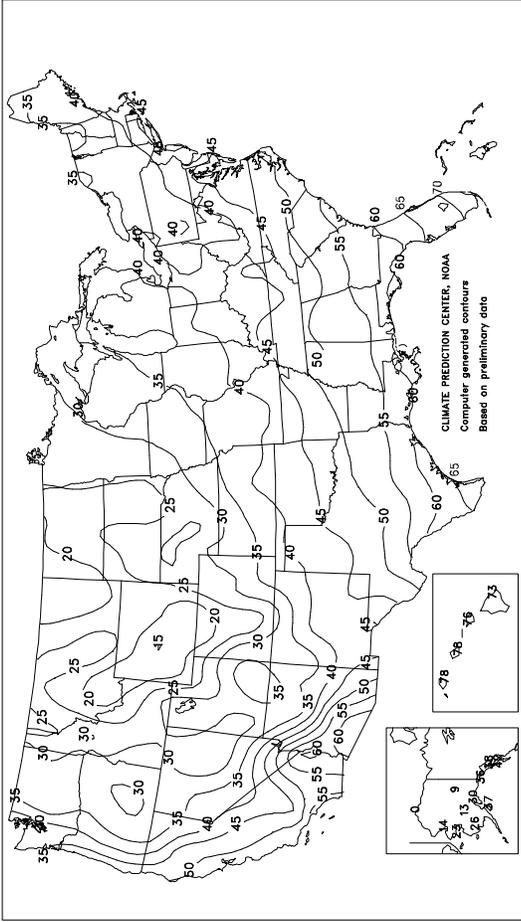
NOV 2000



The sugar beet crop was 98 percent harvested in the major sugar beet-producing States by November 12. Dry weather aided rapid harvest progress in Idaho and Michigan through the first half of the month. Rain interfered with the sugarcane harvest along the western Gulf Coast, but nearly ideal weather aided harvest progress in Florida. The sunflower harvest progressed to 92 percent complete on November 26. Harvest slowly advanced in Colorado, Kansas, and North Dakota due to a combination of rain and snow. The peanut crop was 93 percent harvested on November 26, compared with 96 percent on that date last year. In Texas, harvest continued on the High Plains, but remained stalled in other areas due to wet soils. Wet weather also hindered progress in Oklahoma. In the Southeast, growers completed the harvest, despite occasional rain delays. Harvest neared completion ahead of normal along the Atlantic Coastal Plains.

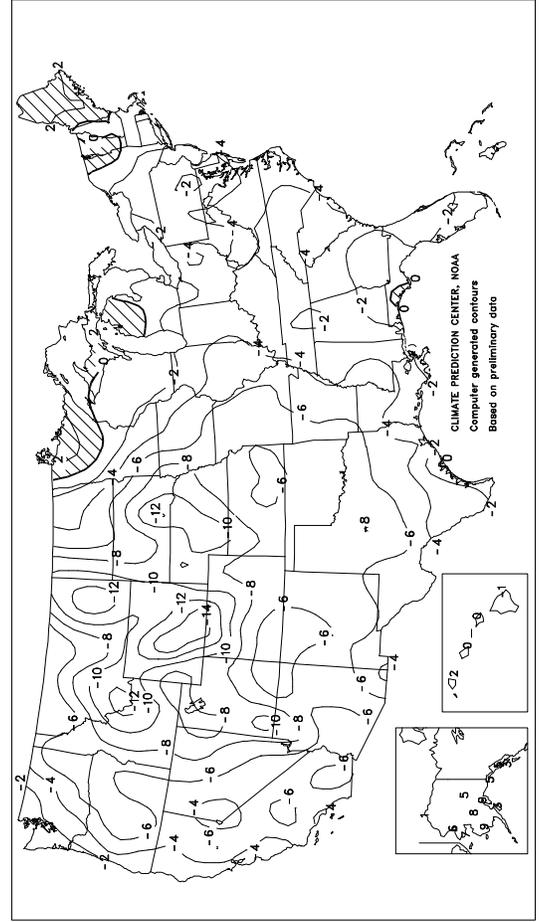
Average Temperature (°F)

NOV 2000



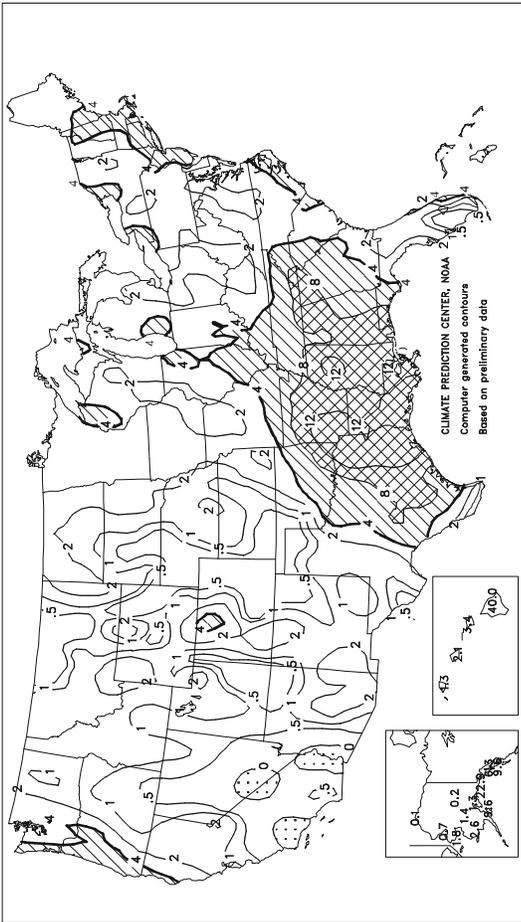
Departure of Average Temperature from Normal (°F)

NOV 2000



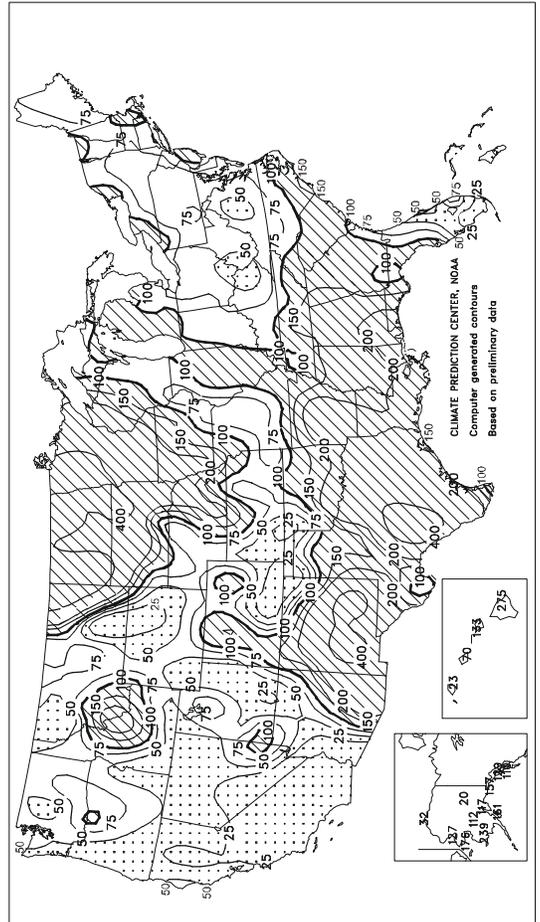
Total Precipitation (Inches)

NOV 2000



Percent of Normal Precipitation

NOV 2000



# TEMPERATURE AND PRECIPITATION SUMMARY

## November 2000

STATES AND STATIONS	TEMP. EF		PRECIP.		STATES AND STATIONS	TEMP. EF		PRECIP.		STATES AND STATIONS	TEMP. EF		PRECIP.	
	AVERAGE	DEPARTURE	TOTAL	DEPARTURE		AVERAGE	DEPARTURE	TOTAL	DEPARTURE		AVERAGE	DEPARTURE	TOTAL	DEPARTURE
AL BIRMINGHAM	52	-1	8.14	3.81	LEXINGTON	43	-3	2.00	-1.39	COLUMBUS	41	-2	2.13	-1.09
HUNTSVILLE	50	-1	7.64	2.78	LONDON-CORBIN	44	-2	2.03	-1.84	DAYTON	40	-3	2.32	-0.75
MOBILE	57	-3	11.54	7.44	LOUISVILLE	44	-3	2.97	-0.73	MANSFIELD	38	-4	2.02	-1.49
MONTGOMERY	54	-3	6.86	2.78	PADUCAH	44	-4	4.76	0.44	TOLEDO	40	0	1.42	-1.39
AK ANCHORAGE	30	9	1.30	0.19	LA BATON ROUGE	56	-4	10.70	6.39	YOUNGSTOWN	38	-3	1.76	-1.35
BARROW	0	2	0.08	-0.17	LAKE CHARLES	58	-2	11.85	7.59	OK OKLAHOMA CITY	43	-7	2.79	0.81
COLD BAY	37	3	12.22	8.03	NEW ORLEANS	60	-1	11.72	7.30	TULSA	44	-6	3.51	0.38
FAIRBANKS	9	6	0.16	-0.64	SHREVEPORT	53	-4	9.93	5.48	OR ASTORIA	46	-1	3.77	-6.28
JUNEAU	38	6	6.31	1.40	ME BANGOR	38	1	2.74	-1.81	BURNS	29	-5	0.63	-0.62
KING SALMON	33	11	2.20	0.72	CARIBOU	35	4	2.09	-1.46	EUGENE	40	-6	1.61	-6.71
KODIAK	37	3	9.59	3.63	PORTLAND	40	1	4.19	-0.98	MEDFORD	40	-4	1.24	-1.99
NOME	23	7	1.83	0.79	MD BALTIMORE	44	-3	1.73	-1.59	PENDLETON	35	-7	1.22	-0.36
AZ FLAGSTAFF	31	-6	1.07	-0.88	MA BOSTON	44	-1	4.50	0.28	PORTLAND	43	-3	2.46	-2.88
PHOENIX	57	-5	0.50	-0.16	WORCESTER	39	0	3.61	-0.88	SALEM	42	-3	2.67	-3.61
TUCSON	53	-6	1.37	0.70	MI ALPENA	36	0	3.14	0.94	PA ALLENTOWN	40	-3	2.24	-1.64
AR FORT SMITH	45	-6	6.59	2.60	DETROIT	40	0	1.69	-0.98	ERIE	40	-3	5.67	1.65
CA BAKERSFIELD	49	-7	11.16	5.96	FLINT	38	-1	1.95	-0.65	MIDDLETOWN	43	-1	1.55	-1.97
EUREKA	48	-4	3.51	-2.93	GRAND RAPIDS	38	0	3.47	0.15	PHILADELPHIA	45	-1	2.21	-1.13
FRESNO	49	-5	0.01	-1.36	HOUGHTON LAKE	36	1	2.32	0.05	PITTSBURGH	39	-3	1.38	-1.47
LOS ANGELES	58	-4	0.00	-1.76	LANSING	38	0	2.25	-0.38	WILKES-BARRE	38	-3	1.44	-1.62
REDDING	48	-4	0.98	-4.23	MUSKEGON	39	0	3.58	0.43	WILLIAMSPORT	40	-2	2.25	-1.48
SACRAMENTO	49	-4	0.68	-2.04	TRAVERSE CITY	38	1	3.62	1.18	PR SAN JUAN	79	-1	2.40	-3.54
SAN DIEGO	58	-4	0.26	-1.19	MN DULUTH	29	1	5.08	3.28	RI PROVIDENCE	43	-1	4.73	0.30
SAN FRANCISCO	53	-2	0.93	-1.93	INT'L FALLS	29	4	2.75	1.60	SC CHARLESTON	55	-3	2.72	0.23
STOCKTON	49	-4	0.20	-1.97	MINNEAPOLIS	31	-2	3.26	1.71	COLUMBIA	52	-3	3.26	0.36
CO ALAMOSA	25	-5	0.05	-0.38	ROCHESTER	30	-3	3.06	1.45	FLORENCE	53	-2	2.75	0.23
CO SPRINGS	31	-7	0.19	-0.28	ST. CLOUD	29	-1	3.24	1.97	GREENVILLE	51	-1	4.06	0.41
DENVER	29	-10	0.75	-0.12	MS JACKSON	52	-4	7.75	2.94	MYRTLE BEACH	52	***	3.54	***
GRAND JUNCTION	33	-7	0.35	-0.36	MERIDIAN	53	-2	6.17	1.68	SD ABERDEEN	23	-7	2.87	2.28
PUEBLO	32	-8	0.08	-0.35	TUPELO	50	-3	9.39	4.54	HURON	24	-8	2.22	1.50
CT BRIDGEPORT	44	-2	4.13	0.32	MO COLUMBIA	39	-5	1.74	-1.19	RAPID CITY	27	-8	0.47	-0.09
HARTFORD	41	-1	2.80	-1.24	JOPLIN	41	-6	1.99	-1.31	SIoux FALLS	25	-8	2.31	1.22
DC WASHINGTON	47	-3	1.60	-1.52	KANSAS CITY	37	-6	2.59	0.67	TN BRISTOL	44	-3	2.44	-0.50
DE WILMINGTON	44	-2	2.53	-0.74	SPRINGFIELD	39	-7	3.24	-0.51	CHATTANOOGA	49	-2	7.15	2.54
FL DAYTONA BEACH	63	-3	1.14	-1.70	ST JOSEPH	35	-7	2.34	0.53	JACKSON	46	-5	4.25	-0.54
FT LAUDERDALE	73	0	0.15	-3.77	ST LOUIS	41	-5	2.79	-0.49	KNOXVILLE	47	-2	4.35	0.60
FT MYERS	69	-2	0.00	-1.57	MT BILLINGS	27	-8	0.49	-0.35	MEMPHIS	50	-3	6.93	1.83
JACKSONVILLE	59	-3	1.54	-0.65	BUTTE	17	-11	0.75	0.22	NASHVILLE	48	-2	6.39	2.27
KEY WEST	74	-2	0.57	-2.27	GLASGOW	19	-10	0.88	0.60	TX ABILENE	48	-7	2.92	1.44
MELBOURNE	66	-2	0.36	-2.64	GREAT FALLS	25	-9	0.49	-0.17	AMARILLO	40	-6	0.96	0.27
MIAMI	73	-1	0.51	-2.15	HELENA	22	-10	0.36	-0.12	AUSTIN	55	-6	7.01	4.64
ORLANDO	66	-2	1.10	-1.20	KALISPELL	27	-4	0.37	-0.93	BEAUMONT	59	-2	10.30	5.45
PENSACOLA	58	-3	8.11	4.57	MILES CITY	18	-14	0.38	-0.16	BROWNSVILLE	69	0	0.41	-1.10
ST PETERSBURG	67	-2	2.09	-0.05	MISSOULA	27	-5	0.23	-0.58	COLLEGE STATION	56	-4	9.73	6.58
TALLAHASSEE	58	-2	2.85	-1.02	NE GRAND ISLAND	29	-9	1.83	0.79	CORPUS CHRISTI	64	-2	2.27	0.68
TAMPA	67	0	2.05	0.28	HASTINGS	29	-8	2.10	1.12	DALLAS/FT WORTH	50	-6	6.95	4.66
WEST PALM BEACH	70	-2	5.28	0.59	LINCOLN	32	-7	1.08	-0.19	DEL RIO	56	-4	2.84	1.92
GA ATHENS	51	-2	4.20	0.54	MCCOOK	28	-10	0.67	-0.18	EL PASO	48	-4	1.06	0.62
ATLANTA	51	-2	5.01	1.15	NORFOLK	28	-8	2.87	1.86	GALVESTON	61	-3	14.30	10.93
AUGUSTA	53	-2	3.38	0.90	NORTH PLATTE	25	-10	0.53	-0.13	HOUSTON	58	-3	8.50	4.71
COLUMBUS	56	-1	5.24	1.68	OMAHA/EPPLLEY	33	-6	3.27	1.78	LUBBOCK	44	-6	1.25	0.50
MACON	54	-2	4.18	1.45	SCOTTSBLUFF	27	-9	0.33	-0.29	MIDLAND	47	-6	0.88	0.19
SAVANNAH	55	-4	1.77	-0.42	VALENTINE	26	-8	0.31	-0.29	SAN ANGELO	49	-6	3.08	2.00
HI HILO	73	-1	39.97	25.46	NV ELKO	28	-8	0.50	-0.61	SAN ANTONIO	57	-3	8.59	5.97
HONOLULU	78	1	2.09	-0.91	ELY	26	-8	0.32	-0.35	VICTORIA	60	-3	5.22	2.77
KAHULUI	76	0	3.45	0.86	LAS VEGAS	50	-5	0.00	-0.43	WACO	52	-6	7.78	5.35
LIHUE	78	3	1.25	-4.20	RENO	38	-2	0.40	-0.47	WICHITA FALLS	47	-5	5.16	3.62
ID BOISE	33	-7	0.68	-0.80	WINNEMUCCA	32	-6	0.28	-0.66	UT SALT LAKE CITY	32	-9	1.31	0.02
LEWISTON	34	-7	0.72	-0.43	NH CONCORD	38	1	3.42	-0.24	VT BURLINGTON	37	0	2.96	-0.17
POCATELLO	26	-10	0.55	-0.61	NJ ATLANTIC CITY	44	-2	3.65	0.07	VA LYNCHBURG	43	-5	1.23	-1.91
IL CHICAGO/O'HARE	37	-3	2.71	-0.21	45	-2	2.71	-1.20	NORFOLK	49	-4	1.63	-1.22	
MOLINE	36	-4	1.81	-0.70	NM ALBUQUERQUE	39	-5	0.91	0.48	RICHMOND	46	-4	1.72	-1.45
PEORIA	38	-3	3.22	0.53	NY ALBANY	38	-2	1.90	-1.33	ROANOKE	44	-3	2.07	-1.12
ROCKFORD	36	-2	2.01	-0.56	BINGHAMTON	35	-3	1.97	-1.31	WASH/DULLES	42	-3	1.57	-1.73
SPRINGFIELD	38	-5	2.99	0.46	BUFFALO	39	-1	5.82	1.99	WA OLYMPIA	39	-3	3.60	-4.45
IN EVANSVILLE	43	-3	3.43	-0.30	ROCHESTER	38	-2	2.19	-0.73	QUILLAYUTE	42	-2	5.61	-9.13
FORT WAYNE	39	-2	2.12	-0.67	SYRACUSE	38	-2	2.68	-1.04	SEATTLE-TACOMA	42	-3	3.26	-2.57
INDIANAPOLIS	41	-2	2.67	-0.56	NC ASHEVILLE	44	-3	4.25	0.66	SPOKANE	27	-8	1.13	-1.02
SOUTH BEND	37	-4	3.07	-0.20	CHARLOTTE	49	-3	2.75	-0.48	YAKIMA	31	-8	0.70	-0.33
IA BURLINGTON	36	-5	1.27	-1.06	GREENSBORO	47	-2	1.95	-1.02	WV BECKLEY	39	-4	1.67	-1.32
CEDAR RAPIDS	33	-5	1.89	-0.12	HATTERAS	53	-4	4.53	-0.44	CHARLESTON	43	-4	1.29	-2.30
DES MOINES	34	-5	1.97	0.18	RALEIGH	48	-3	2.56	-0.42	ELKINS	38	-3	1.91	-1.42
DUBUQUE	33	-3	1.26	-1.45	WILMINGTON	52	-5	4.67	1.56	HUNTINGTON	43	-3	0.95	-2.35
SIoux CITY	27	-9	1.55	0.47	ND BISMARCK	24	-5	1.57	1.08	WI EAU CLAIRE	31	-1	2.68	1.16
WATERLOO	33	-3	2.89	1.07	DICKINSON	21	-9	2.70	2.26	GREEN BAY	34	0	1.25	-0.91
KS CONCORDIA	35	-7	0.60	-0.53	FARGO	26	-2	4.13	3.40	LA CROSSE	34	-2	2.41	0.68
DODGE CITY	37	-6	0.13	-0.70	GRAND FORKS	25	-1	3.94	3.29	MADISON	35	0	2.00	-0.09
GOODLAND	31	-8	0.32	-0.37	JAMESTOWN	23	-5	1.51	1.01	MILWAUKEE	37	-1	2.33	-0.18
HILL CITY	33	-7	0.93	0.19	MINOT	24	-4	1.95	1.26	WAUSAU	32	-1	2.10	0.10
TOPEKA	37	-6	1.91	-0.02	WILLISTON	17	-10	3.31	2.86	WY CASPER	21	-12	0.19	-0.58
WICHITA	40	-5	0.98	-0.61	OH AKRON-CANTON	38	-4	1.73	-1.28	CHEYENNE	26	-9	0.30	-0.23
KY JACKSON	45	-3	1.47	-2.73	CINCINNATI	42	-2	2.33	-1.13	LANDER	16	-15	0.48	-0.32
					CLEVELAND	40	-3	2.55	-0.62	SHERIDAN	24	-9	0.17	-0.66

Based on 1961-90 normals.

\*\*\* Not Available.

## Autumn Weather Review

*Review provided by USDA/WAOB*

**Highlights:** An active autumn weather regime brought dramatic temperature swings and widespread, drought-easing precipitation. By the end of November, however, drought persisted in Peninsular Florida, and to a lesser degree across portions of the Plains, Midwest, Rockies, and Southeast. On the southern Plains, however, heavy rain beginning in mid-October disrupted autumn fieldwork, including winter wheat planting and summer crop harvesting. Fieldwork delays later affected much of the remainder of the South, especially in the central Gulf Coast region. In California, October wetness and a November chill contributed to delays in vegetable development. With respect to temperatures, autumn began with a record-setting heat wave already underway in the South Central States, but eventually featured unusually strong cold outbreaks nearly nationwide in late September, early October, and on several occasions during November.

**September:** Although much-needed precipitation arrived on the northern and central High Plains during September, the remainder of the Plains saw further drought intensification. Toward month's end, renewed heat and persistent dryness hampered winter wheat planting and emergence across the southern half of the Plains. Drought also remained a concern across the South, especially from Alabama westward, although warm, often dry weather favored summer crop maturation and harvesting. Farther east, however, peanuts and cotton in the southern Atlantic States were soaked by frequent rainfall that slowed fieldwork but eased long-term drought. Tropical Storms Gordon and Helene made landfall in Florida just 5 days apart, contributing to the Southeast's wet pattern. Significant rain also fell from the eastern Corn Belt to the Mid-Atlantic region, continuing a trend that developed last spring. In the West, dry weather prevailed in the southern half of the

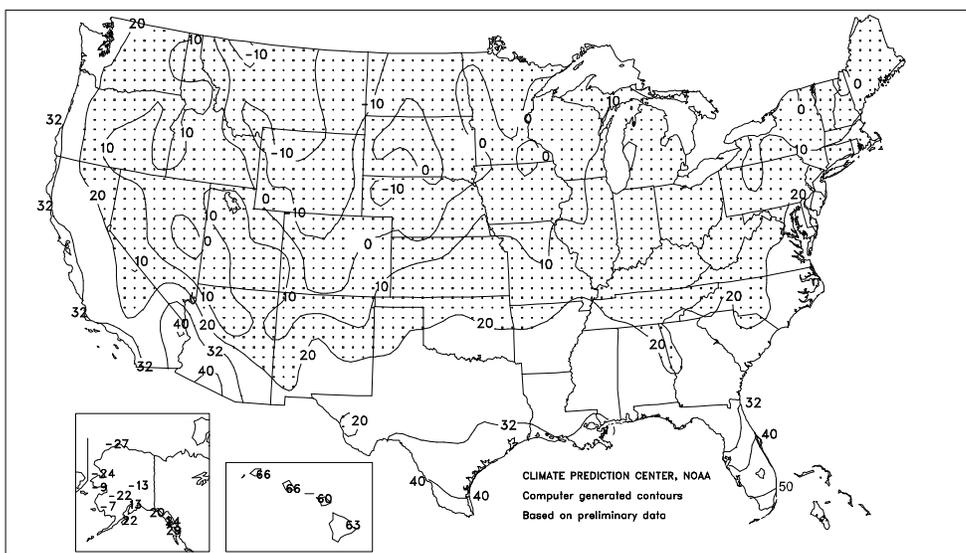
region, while unusually heavy precipitation aided fall-sown small grains in the interior Northwest. Monthly temperatures averaged up to 5°F above normal in the Plains and Southwest, but were as much as 4°F below normal in the Mid-Atlantic region. The season's first freeze was approximately on schedule in the northern Plains and northwestern Corn Belt, but arrived as much as 1 to 2 weeks early in the interior Northwest, central High Plains, and parts of the Northeast.

**October:** A sudden weather pattern change brought heavy precipitation to the West and the previously parched Plains. The abundant moisture eased long-term moisture deficits and aided winter wheat establishment, but slowed fieldwork and caused localized flooding. On the southern Plains, some winter wheat fields unplanted by mid-month due to dryness remained unplanted at month's end due to excessive wetness. From the Mississippi River eastward, however, little or no precipitation fell following early-month showers. In the Corn Belt, warm weather and near- to below-normal rainfall favored rapid corn and soybean harvesting, which approached completion by month's end. Especially dry conditions gripped the Southeast, allowing summer crop harvesting to progress but hampering winter wheat emergence and aggravating long-term drought conditions. Monthly temperatures averaged 1 to 4°F above normal in most areas from the Plains to the Appalachians. Mild weather prevailed in these areas during the second half of October, following an early-month transition from record-setting warmth to an unusually severe early-season cold wave. In contrast, readings averaged as much as 3°F below normal along the East Coast and 1 to 5°F below normal in California.

**November:** *A complete summary begins on page 7*

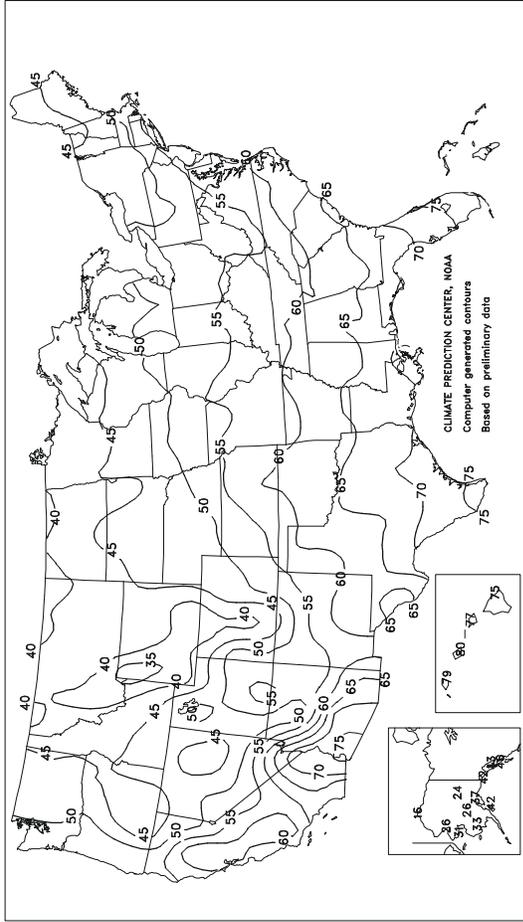
Extreme Minimum Temperature (°F)

SEP - NOV 2000



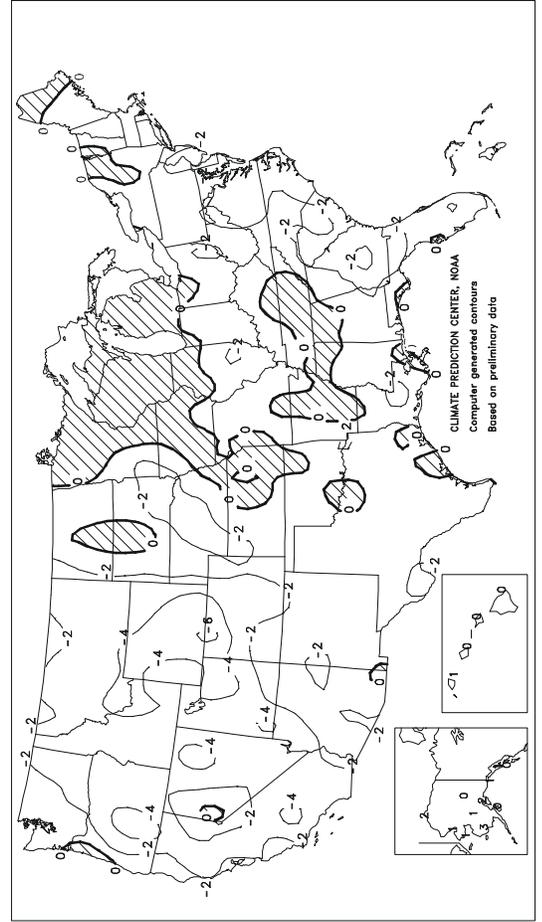
Average Temperature (°F)

SEP - NOV 2000



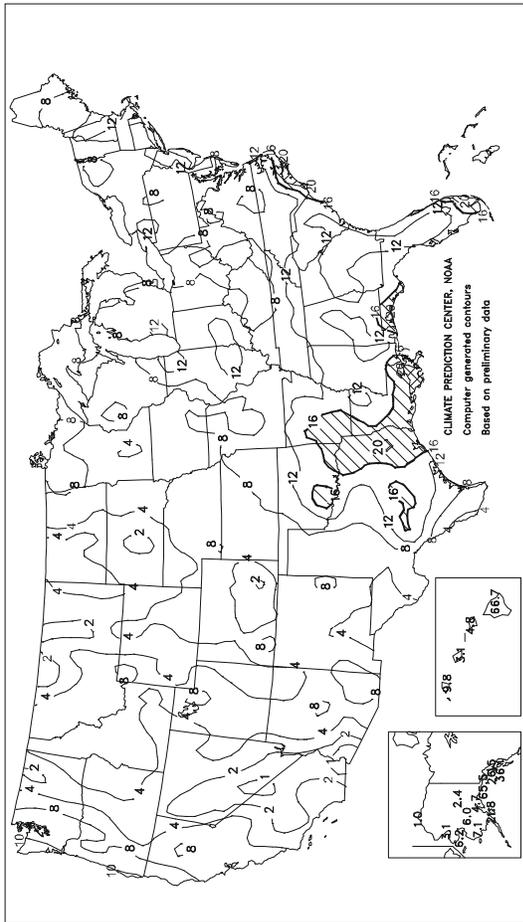
Departure of Average Temperature from Normal (°F)

SEP - NOV 2000



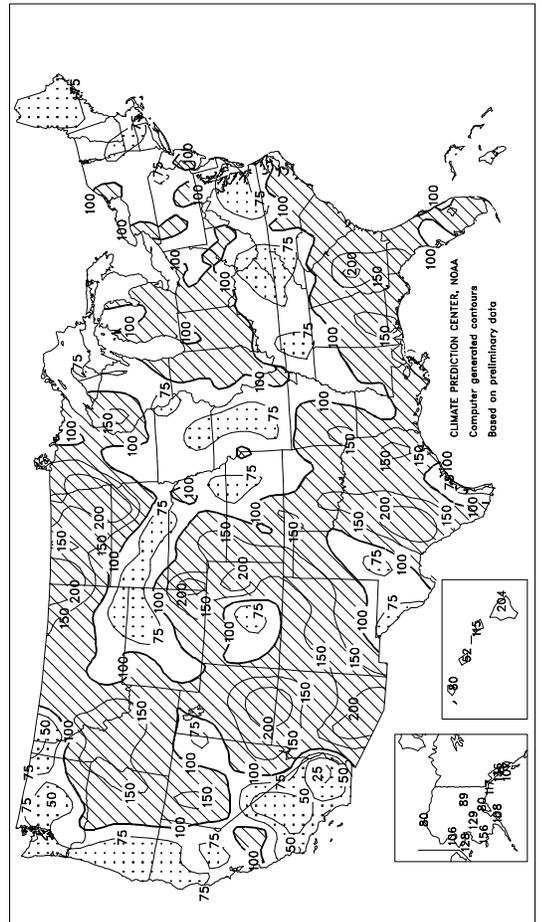
Total Precipitation (inches)

SEP - NOV 2000



Percent of Normal Precipitation

SEP - NOV 2000



# TEMPERATURE AND PRECIPITATION SUMMARY

## Autumn 2000

STATES AND STATIONS	TEMP, EF		PRECIP.		STATES AND STATIONS	TEMP, EF		PRECIP.		STATES AND STATIONS	TEMP, EF		PRECIP.	
	AVERAGE	DEPARTURE	TOTAL	DEPARTURE		AVERAGE	DEPARTURE	TOTAL	DEPARTURE		AVERAGE	DEPARTURE	TOTAL	DEPARTURE
AL BIRMINGHAM	63	0	11.06	-0.01	LEXINGTON	56	-1	8.06	-1.10	COLUMBUS	54	0	9.01	0.68
HUNTSVILLE	62	0	9.47	-2.72	LONDON-CORBIN	56	-1	5.11	-5.00	DAYTON	54	0	8.68	0.59
MOBILE	67	-2	15.43	2.48	LOUISVILLE	58	0	9.30	-0.27	MANSFIELD	52	-1	6.61	-2.62
MONTGOMERY	65	-1	15.17	4.55	PADUCAH	59	0	9.68	-1.33	TOLEDO	52	1	9.24	1.48
AK ANCHORAGE	37	2	4.68	-1.16	LA BATON ROUGE	67	-2	14.81	2.17	YOUNGSTOWN	51	0	7.22	-1.99
BARROW	17	3	1.04	-0.26	LAKE CHARLES	69	0	16.68	2.78	OK OKLAHOMA CITY	61	-1	12.91	3.86
COLD BAY	42	1	25.01	12.07	NEW ORLEANS	70	1	19.32	6.34	TULSA	62	0	10.93	-0.56
FAIRBANKS	24	0	2.36	-0.29	SHREVEPORT	66	-1	12.71	1.41	OR ASTORIA	54	1	10.58	-8.11
JUNEAU	43	2	26.48	7.00	ME BANGOR	47	-1	8.03	-3.35	BURNS	42	-3	3.56	1.03
KING SALMON	38	4	7.18	0.89	CARIBOU	44	1	6.27	-3.83	EUGENE	52	-2	5.66	-7.74
KODIAK	42	0	21.75	1.62	PORTLAND	49	0	9.80	-2.36	MEDFORD	54	-1	3.13	-2.44
NOME	31	2	6.18	1.36	MD BALTIMORE	55	-2	7.36	-2.35	PENDLETON	49	-3	5.29	2.26
AZ FLAGSTAFF	46	-1	5.22	-0.37	MA BOSTON	54	-1	10.23	-0.35	PORTLAND	54	-1	7.38	-2.38
PHOENIX	73	-1	3.68	1.51	WORCESTER	49	-1	8.69	-4.13	SALEM	52	-1	5.82	-4.99
TUCSON	69	-1	6.37	2.97	MI ALPENA	47	0	7.62	0.21	PA ALLENTOWN	51	-3	6.73	-4.02
AR FORT SMITH	62	0	13.37	2.46	DETROIT	52	0	11.44	3.78	ERIE	52	-1	11.64	-0.54
CA BAKERSFIELD	63	-4	0.39	-0.77	FLINT	51	1	10.15	1.81	MIDDLETOWN	55	0	10.63	0.67
EUREKA	54	-1	7.05	-2.95	GRAND RAPIDS	50	1	11.68	1.31	PHILADELPHIA	56	-1	11.66	2.28
FRESNO	62	-2	2.77	0.63	HOUGHTON LAKE	47	1	4.97	-2.89	PITTSBURGH	52	-1	6.54	-1.64
LOS ANGELES	64	-2	1.02	-1.39	LANSING	50	1	10.13	1.84	WILKES-BARRE	50	-2	5.99	-3.17
REDDING	61	-2	7.80	-0.56	MUSKEGON	51	1	10.44	0.61	WILLIAMSPORT	51	-1	7.91	-2.51
SACRAMENTO	61	-2	2.39	-1.78	TRAVERSE CITY	50	1	11.20	2.07	PR SAN JUAN	81	0	9.02	-7.42
SAN DIEGO	65	-2	1.50	-0.56	MN DULUTH	43	1	9.37	1.24	RI PROVIDENCE	53	-1	9.10	-2.50
SAN FRANCISCO	60	0	3.07	-1.21	INT'L FALLS	42	2	5.97	-0.30	SC CHARLESTON	65	-2	11.60	1.48
STOCKTON	60	-3	2.96	-0.35	MINNEAPOLIS	49	2	6.50	0.04	COLUMBIA	63	-1	9.57	-0.04
CO ALAMOSA	41	-2	1.54	-0.48	ROCHESTER	47	0	5.75	-1.65	FLORENCE	64	-1	7.67	-0.87
CO SPRINGS	47	-2	1.60	-1.04	ST. CLOUD	45	1	5.77	-0.87	GREENVILLE	62	1	8.30	-3.30
DENVER	48	-3	2.80	-0.29	MS JACKSON	65	0	12.71	1.09	MYRTLE BEACH	63	***	17.49	***
GRAND JUNCTION	51	-3	2.13	-0.38	MERIDIAN	64	-1	11.07	0.00	SD ABERDEEN	44	-2	8.13	4.56
PUEBLO	50	-3	1.94	0.04	TUPELO	64	1	11.85	-0.02	HURON	46	-1	4.22	0.31
CT BRIDGEPORT	54	-2	9.15	-0.84	MO COLUMBIA	55	-1	7.09	-2.92	RAPID CITY	47	-1	1.82	-1.07
HARTFORD	51	-1	7.77	-3.63	JOPLIN	59	0	9.12	-3.33	SIoux FALLS	46	-1	5.44	-0.45
DC WASHINGTON	58	-2	6.53	-2.92	KANSAS CITY	56	0	9.26	-0.81	TN BRISTOL	56	-1	4.20	-4.59
DE WILMINGTON	55	-2	9.22	-0.36	SPRINGFIELD	57	-1	7.97	-3.97	CHATTANOOGA	61	0	11.25	-0.73
FL DAYTONA BEACH	72	-1	15.64	2.33	ST JOSEPH	55	0	8.46	-0.87	JACKSON	60	-1	8.24	-3.46
FT LAUDERDALE	78	0	17.93	0.06	ST LOUIS	57	-1	8.01	-1.07	KNOXVILLE	60	1	8.17	-1.49
FT MYERS	75	-2	13.80	1.47	MT BILLINGS	45	-3	2.74	-0.60	MEMPHIS	65	2	8.46	-3.18
JACKSONVILLE	68	-2	13.44	1.30	BUTTE	37	-3	3.47	0.99	NASHVILLE	61	0	8.55	-1.65
KEY WEST	79	-1	10.65	-2.46	GLASGOW	41	-3	2.56	0.67	TX ABILENE	64	-2	11.01	3.81
MELBOURNE	73	-1	13.98	0.25	GREAT FALLS	42	-4	3.11	0.43	AMARILLO	58	0	4.94	0.89
MIAMI	78	0	29.74	13.81	HELENA	41	-3	3.03	0.80	AUSTIN	68	-3	11.24	2.14
ORLANDO	73	-2	8.80	-1.93	KALISPELL	40	-2	2.16	-1.27	BEAUMONT	70	0	14.42	-1.03
PENSACOLA	68	-1	19.16	6.09	MILES CITY	44	-3	2.20	-0.51	BROWNSVILLE	75	0	3.78	-6.53
ST PETERSBURG	74	-2	9.50	-1.97	MISSOULA	41	-3	4.88	2.21	COLLEGE STATION	70	1	14.70	2.87
TALLAHASSEE	67	-2	17.58	5.21	NE GRAND ISLAND	51	0	4.95	-0.29	CORPUS CHRISTI	73	-1	6.20	-3.93
TAMPA	74	0	7.26	-2.51	HASTINGS	50	-1	5.66	-0.25	DALLAS/FT WORTH	66	-1	11.50	2.30
WEST PALM BEACH	76	-1	19.22	-0.60	LINCOLN	52	-1	4.24	-2.63	DEL RIO	70	0	9.18	3.19
GA ATHENS	62	-1	9.25	-1.05	MCCOOK	50	-2	6.21	2.62	EL PASO	63	-1	1.88	-1.02
ATLANTA	62	-1	10.81	0.48	NORFOLK	49	-1	6.43	1.37	GALVESTON	72	0	22.20	10.06
AUGUSTA	62	-2	9.41	1.07	NORTH PLATTE	46	-3	4.99	1.74	HOUSTON	69	-1	16.11	3.16
COLUMBUS	65	-1	11.25	2.24	OMAHA/PLEPPY	53	0	5.84	-1.65	LUBBOCK	60	-1	4.52	-0.68
MACON	63	-2	15.66	7.97	SCOTTSBLUFF	46	-3	5.11	2.58	MIDLAND	63	0	3.27	-1.78
SAVANNAH	65	-3	9.22	0.17	VALENTINE	47	-1	2.89	-0.15	SAN ANGELO	65	-1	7.27	0.38
HI HILO	75	0	66.73	34.09	NV ELKO	43	-4	2.26	-0.12	SAN ANTONIO	70	0	16.86	7.66
HONOLULU	80	1	3.12	-2.94	ELY	43	-2	2.39	-0.18	VICTORIA	71	0	11.18	-0.33
KAHULUI	77	0	4.79	0.62	LAS VEGAS	66	-2	0.92	0.00	WACO	68	0	13.46	4.15
LIHUE	79	2	9.76	-2.47	RENO	51	1	1.23	-0.41	WICHITA FALLS	64	0	11.61	3.51
ID BOISE	49	-2	3.87	0.84	WINNEMUCCA	46	-3	2.82	0.86	UT SALT LAKE CITY	50	-3	5.17	1.16
LEWISTON	48	-5	4.39	1.56	NH CONCORD	48	0	9.23	-0.47	VT BURLINGTON	48	0	7.77	-1.54
POCATELLO	44	-4	3.02	0.10	NJ ATLANTIC CITY	55	-1	7.80	-1.53	VA LYNCHBURG	55	-3	5.29	-4.79
IL CHICAGO/O'HARE	52	0	7.42	-1.73	NE NEWARK	56	-2	7.35	-3.27	NORFOLK	61	-1	7.89	-2.01
MOLINE	53	1	8.33	-1.13	NM ALBUQUERQUE	56	-1	3.94	1.62	RICHMOND	58	-1	5.36	-4.68
PEORIA	54	0	7.82	-1.39	NY ALBANY	49	-1	7.39	-1.62	ROANOKE	56	-1	7.97	-2.57
ROCKFORD	51	0	10.80	1.55	BINGHAMTON	47	-2	8.42	-1.07	WASH/DULLES	55	-1	5.86	-4.00
SPRINGFIELD	54	-1	8.46	0.00	BUFFALO	51	0	10.85	0.44	WA OLYMPIA	49	-1	9.89	-4.73
IN EVANSVILLE	57	0	9.06	-0.51	ROCHESTER	50	-1	7.08	-1.25	QUILLAYUTE	49	-1	19.43	-10.7
FORT WAYNE	52	-1	8.51	0.56	SYRACUSE	50	-1	8.06	-2.69	SEATTLE-TACOMA	52	-1	7.38	-3.56
INDIANAPOLIS	54	-1	10.57	1.84	NC ASHEVILLE	56	-1	7.52	-3.53	SPOKANE	43	-4	2.75	-1.12
SOUTH BEND	52	0	8.57	-1.40	CHARLOTTE	59	-3	8.58	-1.51	YAKIMA	47	-3	1.20	-0.70
IA BURLINGTON	54	1	9.12	-0.25	GREENSBORO	58	-1	11.94	1.95	WV BECKLEY	52	-1	8.40	-0.81
CEDAR RAPIDS	51	0	7.61	-0.60	HATTERAS	64	-1	15.22	0.00	CHARLESTON	55	-2	5.04	-4.68
DES MOINES	53	0	5.00	-2.94	RALEIGH	60	-1	6.38	-2.65	ELKINS	50	-1	11.38	1.21
DUBUQUE	50	1	5.69	-4.42	WILMINGTON	63	-3	12.82	1.98	HUNTINGTON	55	-2	5.21	-3.85
SIoux CITY	48	-2	4.84	-1.06	ND BISMARCK	44	0	5.03	2.15	WI EAU CLAIRE	47	1	13.41	5.56
WATERLOO	50	1	6.45	-1.45	DICKINSON	43	-1	4.25	1.18	GREEN BAY	47	0	5.67	-2.19
CONCORDIA	56	1	4.04	-2.09	FARGO	44	0	9.73	5.33	LA CROSSE	50	1	5.12	-2.60
DODGE CITY	55	-2	2.65	-1.37	GRAND FORKS	42	0	7.98	3.80	MADISON	49	1	6.27	-1.36
GOODLAND	50	-2	5.45	2.29	JAMESTOWN	42	-2	6.16	2.94	MILWAUKEE	51	1	10.21	1.91
HILL CITY	53	-1	4.39	0.14	MINOT	43	0	3.69	0.10	WAUSAU	47	1	8.14	-0.83
TOPEKA	57	1	8.40	-0.40	WILLISTON	40	-3	5.65	3.10	WY CASPER	42	-4	2.22	-0.46
WICHITA	59	1	6.82	-0.48	OH AKRON-CANTON	51	-2	8.13	-0.55	CHEYENNE	44	-3	3.48	0.94
JACKSON	57	-1	7.46	-3.60	CINCINNATI	55	-1	8.48	-0.72	LANDER	40	-5	2.64	-0.39
					CLEVELAND	52	-1	9.40	0.25	SHERIDAN	42	-3	2.16	-1.22

Based on 1961-90 normals.

\*\*\* Not Available.

# National Agricultural Summary

December 4 - 10, 2000

Weekly National Agricultural Summary provided by USDA/NASS

## HIGHLIGHTS

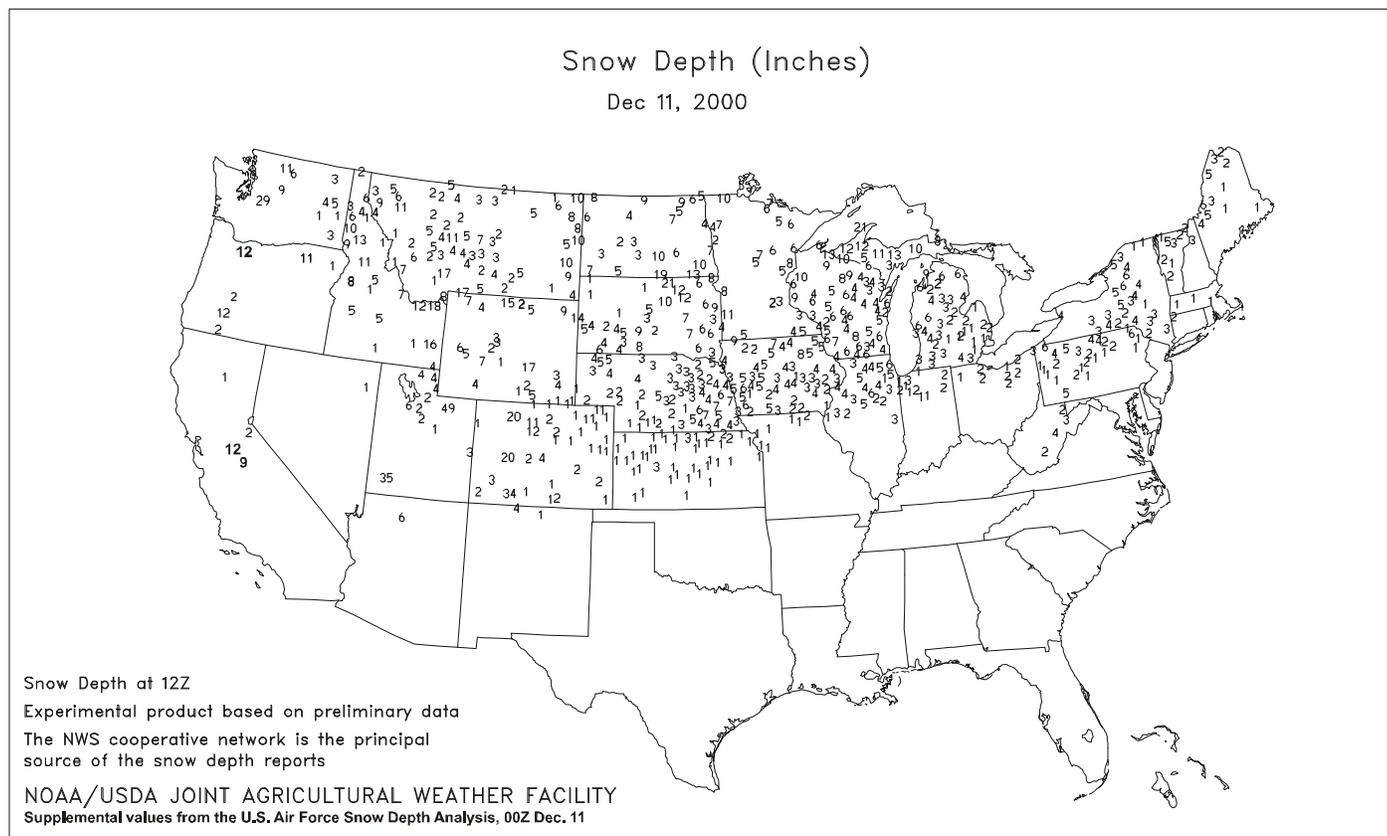
Cotton harvest neared completion in California and producers prepared fields for the 2001 cotton crop. The California sugar beet harvest was virtually complete, and a few alfalfa fields were cut. California producers planted winter forage and small grain crops, but planting was postponed in some areas due to lack of rain. Some growers irrigated seeded fields to aid germination, while others waited for rain. Fruit growers pruned trees and vines. Grapefruit

harvest was active in the San Joaquin Valley, and new crop navel orange harvest continued. Lemon picking was active in southern California. Winter vegetables thrived due to excellent weather. Some winter vegetables were harvested. Fall broccoli and cauliflower harvests continued in the San Joaquin Valley. Green speciality vegetables were in various stages of harvests, but the lettuce harvest slowed.

In Florida, topsoil moisture is very short across most of the State, with scattered areas of adequate moisture. Producers delayed winter grazing of small grains due to drought. Cotton harvest neared completion, while sugarcane harvest remained active. Orchard caretakers ran irrigation systems to keep trees in good condition. Cold weather early in the week limited new growth on trees. Bright sunny days improved the color and advanced maturity of most

early- and mid-season fruit. Fresh fruit packers worked long hours to meet holiday shipping demands.

Warm, dry weather aided fieldwork in Texas, where producers on the Plains continued to harvest cotton, sorghum, and peanuts. Land preparation accelerated, and wheat and oat seeding resumed in areas that previously were too wet.



# International Weather and Crop Summary

December 3 - 9, 2000

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

## HIGHLIGHTS

**EUROPE:** Wet weather in western Europe caused additional fieldwork delays, while dry weather in southeastern Europe maintained long-term drought.

**FSU-WESTERN:** Unseasonably mild weather provided favorable overwintering conditions for winter grains in Ukraine and Russia, but melted protective snow cover.

**MIDDLE EAST:** A drier weather pattern dominated the region, although precipitation returned to western Iran later in the week.

**AUSTRALIA:** Flooding was slowly subsiding in the New South Wales winter grain belt.

**SOUTH AFRICA:** Favorable growing conditions prevailed across the corn belt, but locally heavy rain returned to northern sugarcane areas of KwaZulu-Natal.

**EASTERN ASIA:** Across the North China Plain, winter wheat remained dormant in the north, while warm weather slowed wheat entering dormancy in the south.

**SOUTHEAST ASIA:** Heavy showers caused flooding across central Vietnam and the central Philippines.

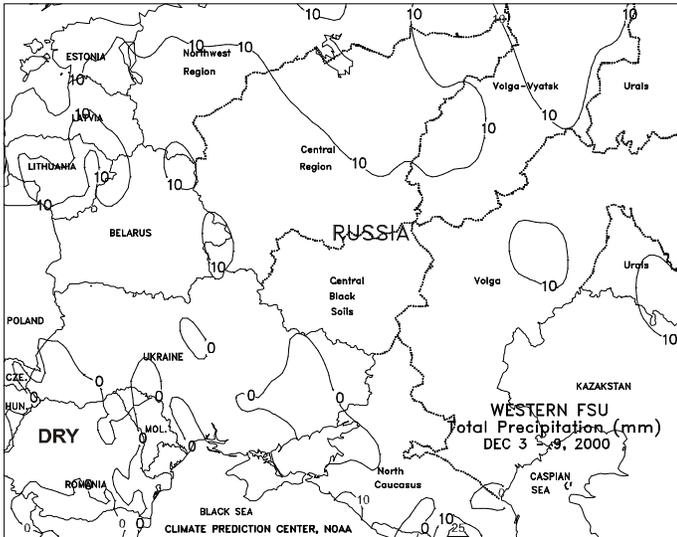
**SOUTH AMERICA:** In central Argentina, drier weather continued to favor summer crop planting and winter wheat maturation and harvesting. In southern Brazil, showers maintained adequate moisture supplies in the north, while drier weather favored late soybean planting in the south.

**NORTHWESTERN AFRICA:** Showers aided early crop development throughout the region.



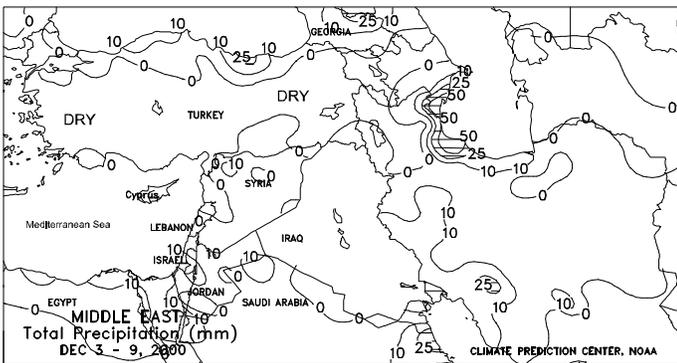
## EUROPE

Wet weather in western Europe continued to hamper fieldwork, but maintained moisture supplies for vegetative winter grains and oilseeds. The heaviest rain fell across England (15-70 mm or more) and the western Iberian peninsula (30-150 mm, locally near 230 mm), causing localized flooding and delaying sugar beet harvesting in the north. In France, scattered showers (12-57 mm) slowed corn harvesting, but helped winter grain establishment. Similarly, scattered showers (13-33 mm or more) in northern Italy maintained adequate to locally excessive moisture supplies for vegetative winter grains. Elsewhere in central and eastern Europe, mostly dry weather prevailed, allowing fieldwork to progress. Although generally adequate moisture supplies in north-central and northeastern Europe favored vegetative winter grains, drought in southeastern Europe hampered winter grain establishment. Unseasonably mild weather prevailed throughout much of Europe, with temperatures averaging 2 to 7 degrees C above normal. Winter grains have likely begun to ease into dormancy in far eastern Poland and parts of Slovakia, the Czech Republic, eastern Hungary, and northwestern Romania, about 3 to 4 weeks later than normal.



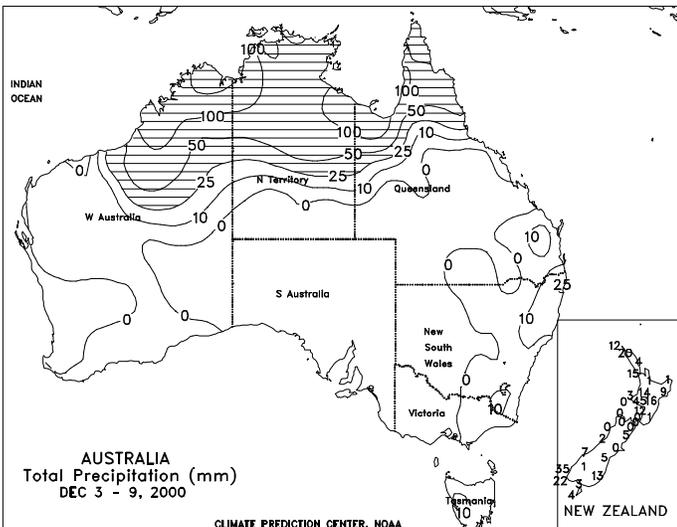
**FSU-WESTERN**

Unseasonably mild weather prevailed over most of the region, providing favorable overwintering conditions for winter grains. Weekly temperatures averaged 1 to 3 degrees C above normal in Ukraine and most of southern Russia, and 3 to 7 degrees C above normal in Belarus, the Baltics, and parts of northern Russia (Northwest Region and Central Region). Extreme maximum temperatures ranged from 4 to 11 degrees C in Ukraine, southern Russia, Belarus, and the Baltics, and 2 to 5 degrees C over the remainder of Russia. The unseasonably mild weather melted most of the protective snow cover in Ukraine and parts of southern Russia (North Caucasus and the southern portion of the Central Black Soils Region), leaving crops exposed to potential extreme cold. At week's end, a shallow to moderate snow cover insulated winter grains in Russian growing areas in the Central Region, the northern portion of the Central Black Soils Region, Volga Vyatsk, and Volga Valley.



**MIDDLE EAST**

A drier weather pattern dominated the region, although light showers (10-25 mm) returned to western Iran and neighboring sections of Iraq later in the week. Near- to below-normal temperatures slowed winter wheat development and helped to ease crops into dormancy in Turkey's Anatolian Plateau and the higher elevations of Iran. Although winter wheat areas in the Anatolian Plateau lacked a protective snow cover, extreme minimum temperatures (-7 to -3 degrees C) did not fall low enough to cause concern.

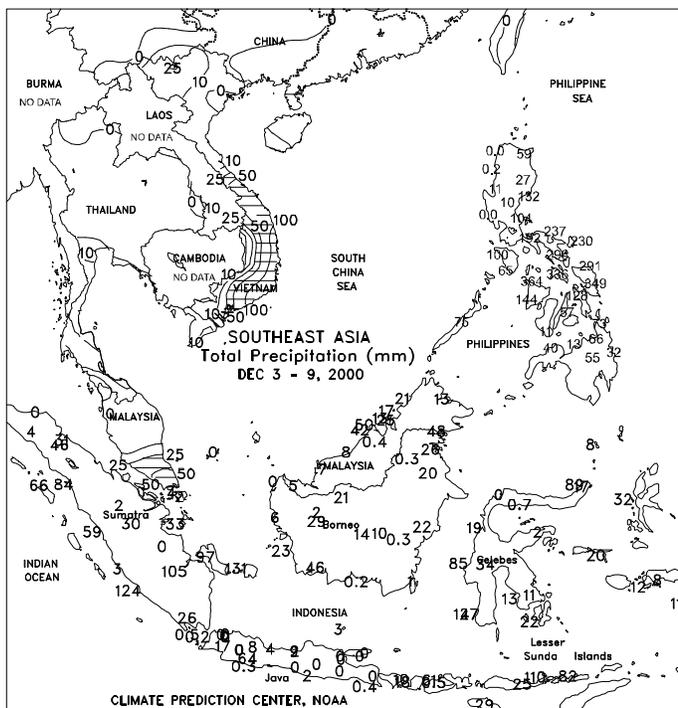
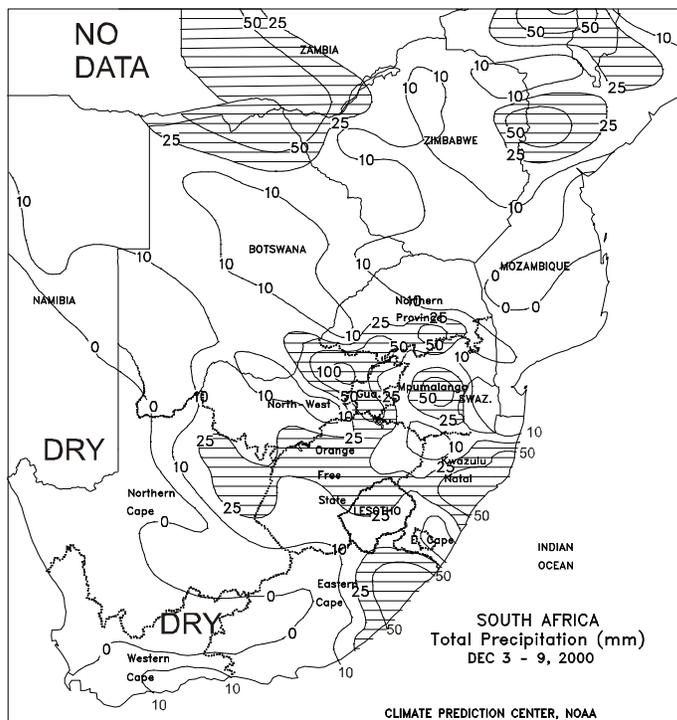


**AUSTRALIA**

Much-needed drier weather brought some relief to flooded winter crop areas of New South Wales. Reports indicated that, although flooding lingered along the Macquarie and Bogan Rivers at the western edge of the wheat belt, flood waters were gradually shifting downstream. At week's end, isolated showers (locally exceeding 25 mm) developed over northeastern sections of New South Wales, slowing local recovery efforts. Elsewhere, dry, seasonably warm weather aided cotton and sorghum development in the summer crop districts of northern New South Wales and Queensland. Farther south, summer heat (highs in the middle and upper 30's degrees C) hastened winter crop drydown in South Australia to southern New South Wales. Harvest conditions also remained favorable in Western Australia. In New Zealand, drier weather returned to the small grain and pasture areas of South Island, but scattered showers (5-25 mm or more) lingered in crop areas of North Island.

**SOUTH AFRICA**

Light to moderate showers (2-25 mm or more) and generally seasonable temperatures (highs from the mid 20's to mid 30's degrees C) continued across the corn belt, maintaining favorable conditions for summer crop germination and establishment. However, locally heavy rain (25-50 mm or more) returned to previously flooded sections of KwaZulu-Natal's sugarcane region. The rainfall extended southwestward into Eastern Cape, while warm, dry weather dominated Western Cape, maintaining high irrigation demands for fruits and vegetables.



**SOUTHEAST ASIA**

Tropical Depression Rumbia weakened as it moved south of Vietnam; however, heavy showers (100-200 mm) still made their way into south-central Vietnam. Moderate showers (10-25 mm) favored winter-spring rice transplanting across the Mekong River Delta in southern Vietnam. Seasonably dry weather favored rice fieldwork across Thailand. In the central Philippines, heavy tropical showers (100-400 mm) continued to slow fieldwork for rice and plantation crops and caused flooding. Elsewhere in the Philippines, seasonable showers (10-50 mm) maintained moisture supplies for second-season crops. Mostly dry conditions reduced moisture supplies for vegetative main season rice in Java, Indonesia. Moderate showers (25-50 mm) maintained moisture supplies for oil palm across Sumatra, Indonesia. Mostly dry weather across peninsular Malaysia decreased moisture for plantation crops.

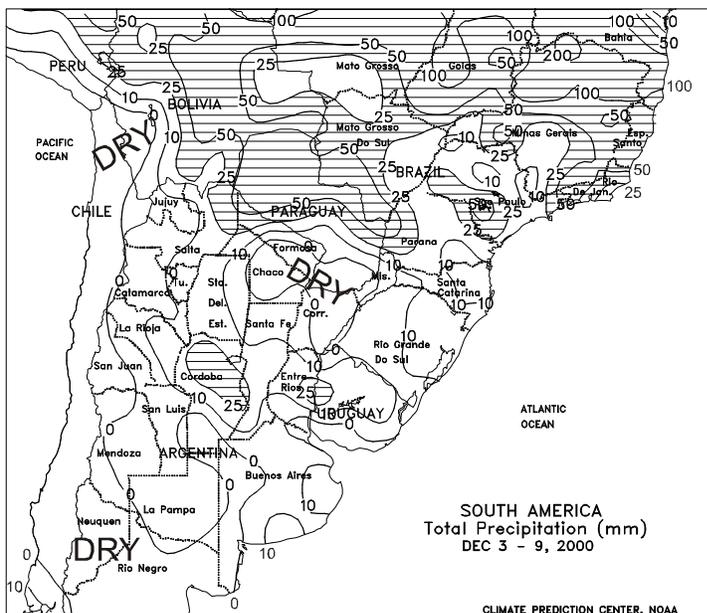


**EASTERN ASIA**

Across the North China Plain, winter wheat remained dormant in the north, while warm weather slowed wheat entering dormancy in the south. Temperatures averaged 2 to 5 degrees C above normal across eastern China. Dry weather prevailed across most of the country, with only light rainfall (2-12 mm) reported from eastern Sichuan to Jiangsu.

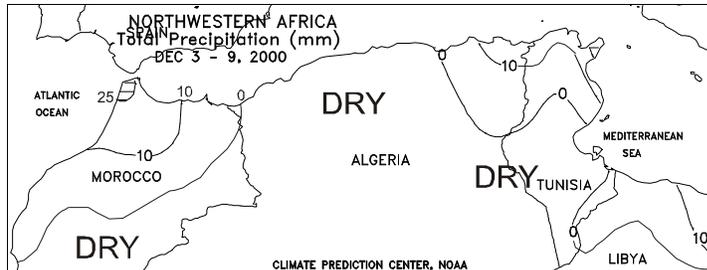
**SOUTH AMERICA**

In central Argentina, drier weather continued to favor summer crop planting and winter wheat maturation and harvesting. The heaviest rain fell across central and northern Cordoba (15-45 mm) and central Santa Fe (10-20 mm). Elsewhere rainfall was light (less than 10 mm). Soil moisture supplies are adequate to abundant across central Argentina, due to the recent above-normal rainfall. Across southern Buenos Aires and eastern La Pampa, dry weather favored maturing winter wheat, but topsoil moisture was becoming limited for emerging summer crops. During the past 4 weeks, both regions received about 30 to 40 percent of normal rainfall. Temperatures averaged near normal, although maximum temperatures reached into the upper 30's degrees C on December 6. Mostly dry weather also extended into northern Argentina and southern Paraguay. In southern Brazil, widespread showers (20-60 mm) continued to provide adequate to abundant moisture for soybeans from Parana northward. Drier weather (5-20 mm) favored soybean planting across Rio Grande do Sul and western Santa Catarina. Temperatures averaged 1 to 2 degrees C above normal across southern Brazil. According to Safras, as of December 8, soybeans were 93 percent planted nationwide, compared with the 5-year average of 85 percent.



**NORTHWESTERN AFRICA**

Light to moderate showers (10-30 mm) fell in northern Morocco, favoring early crop development. However, mostly light showers (less than 10 mm) fell in southern Morocco, where conditions have been dry since mid-November. Algeria received light showers (less than 10 mm) that maintained adequate moisture in western and central Algeria, but eastern Algerian rainfall remained below normal. Light showers fell in Tunisia, where rainfall remained below normal. Temperatures were 1 to 3 degrees C above normal throughout the region, accentuating dryness.



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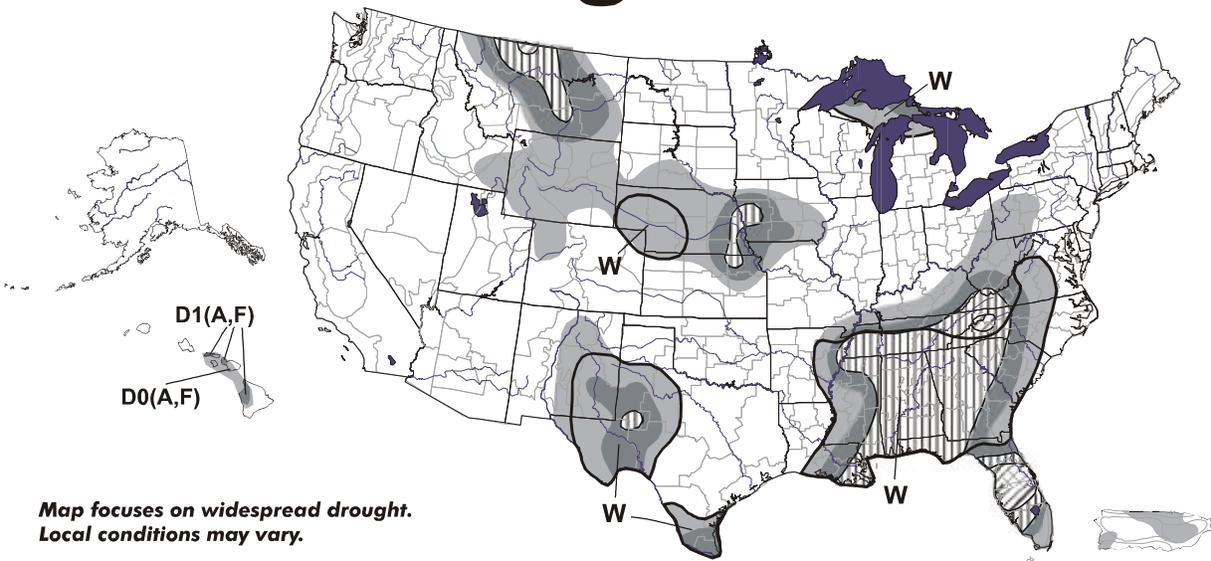
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December 5, 2000 Valid 7 a.m. EST

# 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 type: used only when impacts differ
- A = Agriculture
  - W = Water
  - F = Wildfire danger

See accompanying text summary for forecast statements  
<http://enso.unl.edu/monitor/monitor.html>



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