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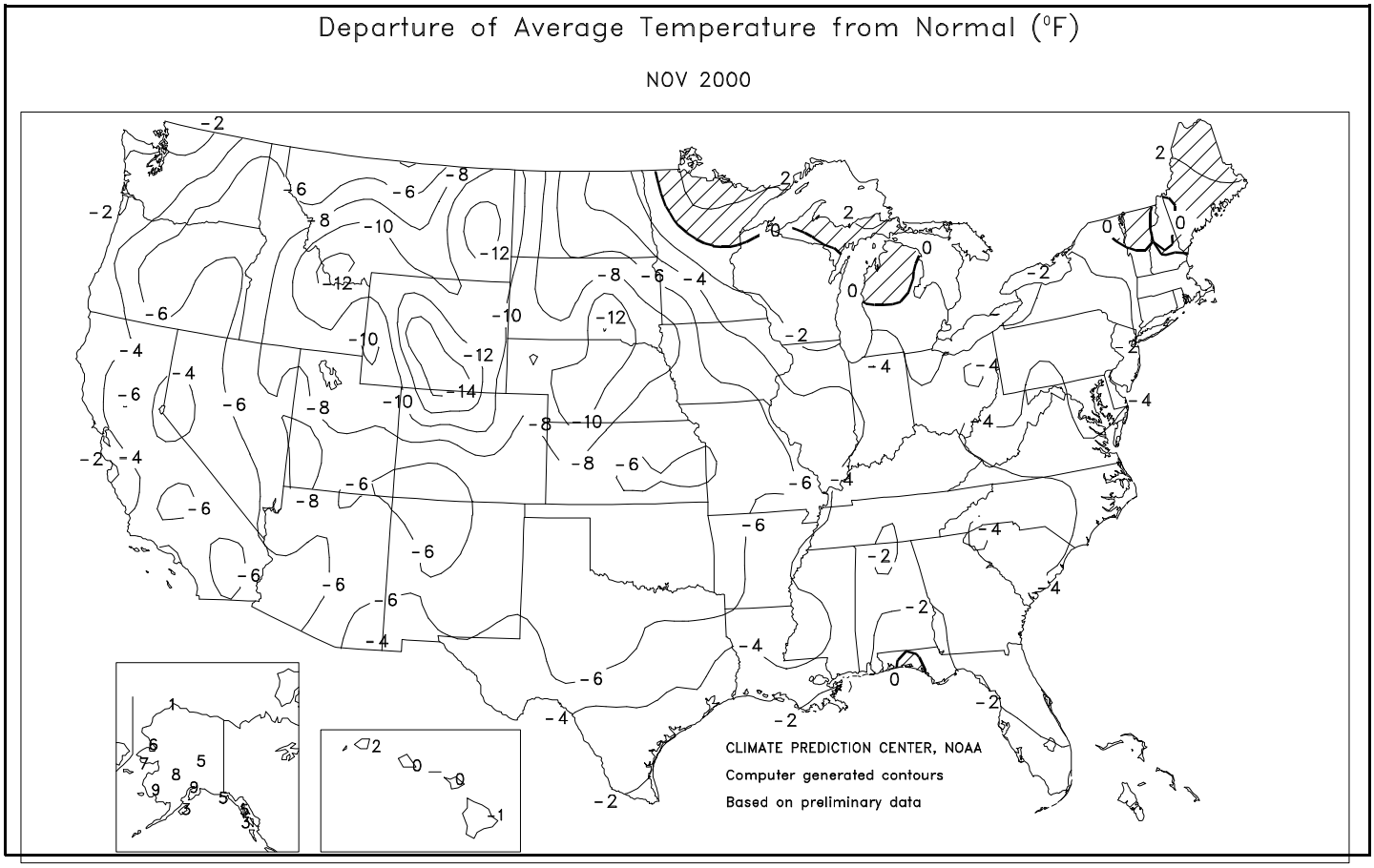
WEEKLY WEATHER AND CROP BULLETIN

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



HIGHLIGHTS

November 26 - December 2, 2000

Highlights provided by USDA/WAOB

Despite a late-month warming trend, the Nation completed an extremely cold November. Especially cold weather gripped the **northern Plains** and **northern Rockies**, holding monthly temperatures as much as 15°F below normal. During the most recent week, however, mild, mostly dry weather prevailed nearly nationwide, favoring final autumn fieldwork in many areas. Cool weather lingered from the **Ohio Valley southward**, where weekly temperatures averaged as much as 6°F below normal. In contrast, weekly readings averaged up to 7°F above normal in the **Southwest**. In the **South-Central States**, late-week precipitation was confined to the

(Continued on page 3)

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Weather Data for Selected Locations in the Delta and the Bootheel

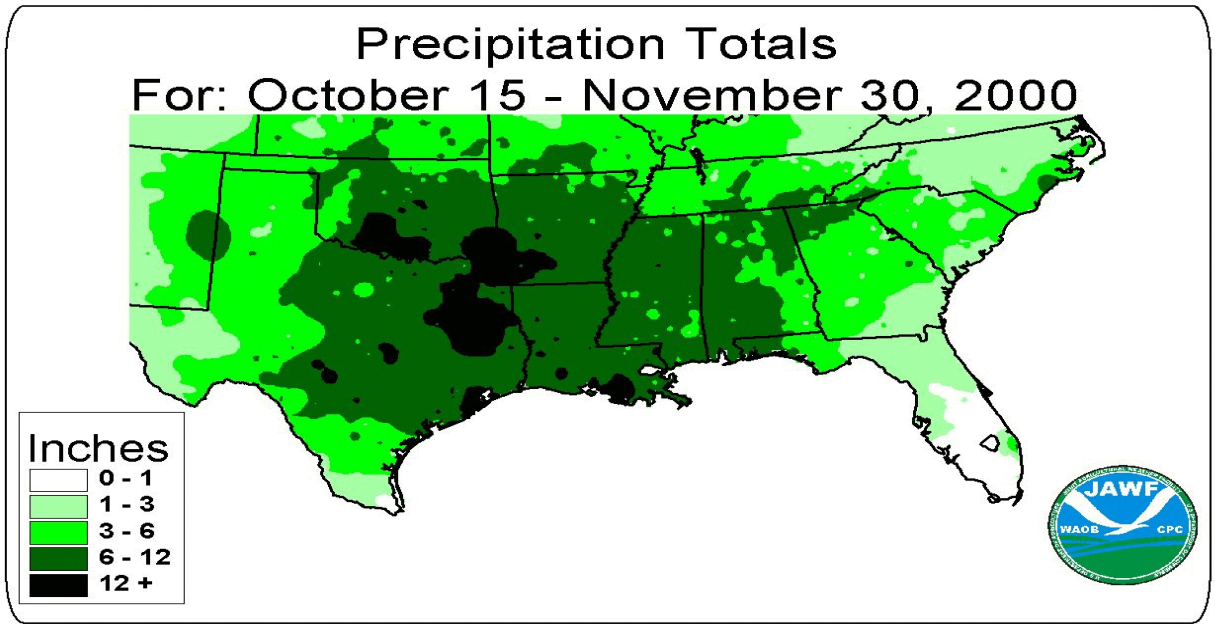
Weather Data for the Week Ending December 2, 2000

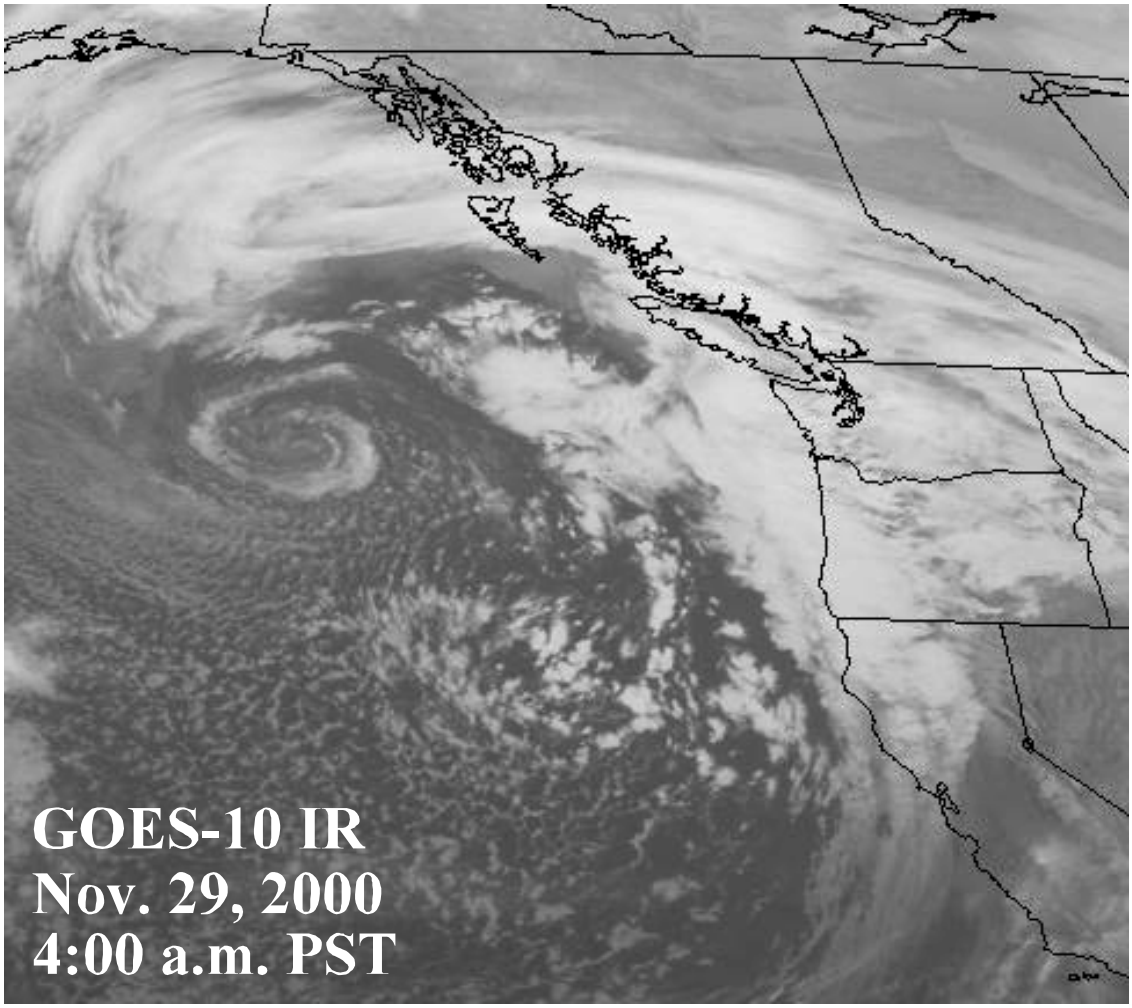
Data provided by the Mississippi State Delta Research and Extension Center (DREC), the Southern Regional Climate Center (SRCC), and the University of Missouri.

STATES AND STATIONS		TEMPERATURE EF						PRECIPITATION							4-INCH SOIL TEMP, ºF		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
MS	BATESVILLE x	55	35	60	27	45	-2	0.12	-1.18	0.12	0.00	0	--	--	--	--	0	2	1	0
	BELZONI x	59	38	68	32	49	-2	0.12	-1.19	0.12	0.00	0	40.02	--	--	--	0	1	1	0
	CLARKSDALE x	55	37	63	33	46	-3	0.20	-0.99	0.20	0.00	0	42.87	--	--	--	0	0	1	0
	CLEVELAND x	57	37	65	33	47	-3	0.24	-0.81	0.24	0.00	0	43.85	101	--	--	0	0	1	0
	GREENVILLE x	58	38	67	35	48	-2	0.27	-1.18	0.27	0.00	0	--	--	--	--	0	0	1	0
	GREENWOOD x	58	34	67	28	46	-5	0.25	-1.00	0.22	0.00	0	38.00	83	--	--	0	1	2	0
	INDIANOLA 1S	55	39	65	35	47	--	0.09	--	0.09	0.00	--	--	--	53	46	0	0	1	0
	INVERNESS 5E	57	39	67	36	48	--	0.11	--	0.11	0.00	--	44.29	--	--	--	0	0	1	0
	LYON	55	37	62	33	46	--	0.40	--	0.28	0.00	--	33.04	--	--	--	0	0	2	0
	MOORHEAD x	58	40	66	36	49	-2	0.17	-1.16	0.17	0.00	0	46.08	98	--	--	0	0	1	0
	ONWARD	57	38	67	35	48	--	0.13	--	0.13	0.00	--	--	--	53	48	0	0	1	0
	ROLLING FORK x	60	36	69	33	48	-3	0.11	-1.22	0.11	0.00	0	32.10	72	--	--	0	0	1	0
	SIDON	58	39	66	37	49	--	0.24	--	0.24	0.00	0	34.44	--	--	--	0	0	1	0
	TUNICA x	55	37	60	31	46	-2	0.14	-1.09	0.14	0.00	0	40.70	89	--	--	0	1	1	0
	TUNICA 1W	54	35	61	31	45	--	0.09	--	0.09	0.00	0	--	--	50	47	0	2	1	0
	VANCE	55	37	62	32	46	--	0.25	--	0.25	0.00	0	--	--	50	48	0	1	1	0
	VICKSBURG x	61	38	69	32	50	-3	0.57	-0.65	0.51	0.06	17	42.38	--	--	--	0	1	2	1
	YAZOO CITY x	59	36	69	32	48	-4	0.06	-1.30	0.06	0.00	0	43.50	88	--	--	0	2	1	0
	STONEVILLE *	59	38	66	35	49	0	0.30	-1.19	0.28	0.02	5	51.90	110	56	45	0	0	2	0
MO	CARDWELL	53	33	60	29	43	-1	0.00	-1.43	0.00	0.00	0	36.17	76	--	--	0	3	0	0
	CHARLESTON	49	31	57	26	40	-2	0.03	-1.19	0.03	0.03	21	41.07	91	--	--	0	5	1	0
	CLARKTON	52	33	58	28	42	-1	0.02	-0.98	0.02	0.02	11	--	--	--	--	0	3	1	0
	DELTA	49	29	57	25	39	-3	0.02	-1.52	0.02	0.02	5	35.65	74	--	--	0	6	1	0
	GLENNONVILLE	51	33	57	28	41	-2	0.01	-0.99	0.01	0.01	6	37.51	89	--	--	0	3	1	0
	PORTAGEVILLE #1	52	33	60	28	42	-2	0.02	-1.29	0.02	0.02	8	--	--	--	--	0	3	1	0
	PORTAGEVILLE #2	52	34	59	28	42	-2	0.02	-1.29	0.02	0.02	8	42.74	92	--	--	0	3	1	0
	STEELE	53	34	61	30	43	-1	0.00	-1.38	0.00	0.00	0	31.70	66	--	--	0	2	0	0

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

Delta and Bootheel Weather and Crop Summary: Temperatures averaged slightly below normal, while precipitation was generally light. Nevertheless, most fields remained wet from November' s rains. Emergence of fall-sown crops continued at most locations.





Moisture Arrives in the Northwest: After a quiet start to the wet season in the Pacific Northwest, a late-November weather pattern change brought beneficial precipitation and boosted high-elevation snow packs. Nevertheless, November precipitation totaled just 1.61 inches (19 percent of normal) in Eugene, Oregon, and 3.60 inches (45 percent) in Olympia, Washington. 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.

(Continued from front cover)
southern half of Texas, allowing final winter wheat planting and cotton and peanut harvesting to proceed. Farther east, wet conditions continued to hamper fieldwork across the remainder of the **South**, especially in the **central Gulf Coast region**. Across **Florida's peninsula**, however, scattered showers provided little relief from long-term drought. Light precipitation, mainly snow, fell from the **Dakotas** to the **Midwest**, while early-week precipitation, mostly rain, totaled an inch or more across much of the **Northeast**. Following a slow start to the wet season in the **northern Rockies** and **Northwest**, beneficial precipitation boosted topsoil moisture and improved high-elevation snow packs.

Snowfall in **Aberdeen, SD** totaled 4.8 inches on the 28th and 10.5 inches on the 30th, boosting their November total to a record-setting 30.5 inches. The previous record, 30.1 inches, was established in November 1993. Both **Aberdeen** (2.87 inches, or 486 percent of normal) and **Williston, ND** (3.29 inches, or 731 percent) set November precipitation records. Farther west, **Lander, WY** noted a monthly average temperature of 16.0ºF (15.2ºF below normal), breaking their November 1985 record of 17.8ºF. In **Nevada**, **Ely** also posted their coldest November, with an average temperature of 25.8 ºF (8.4ºF below normal).

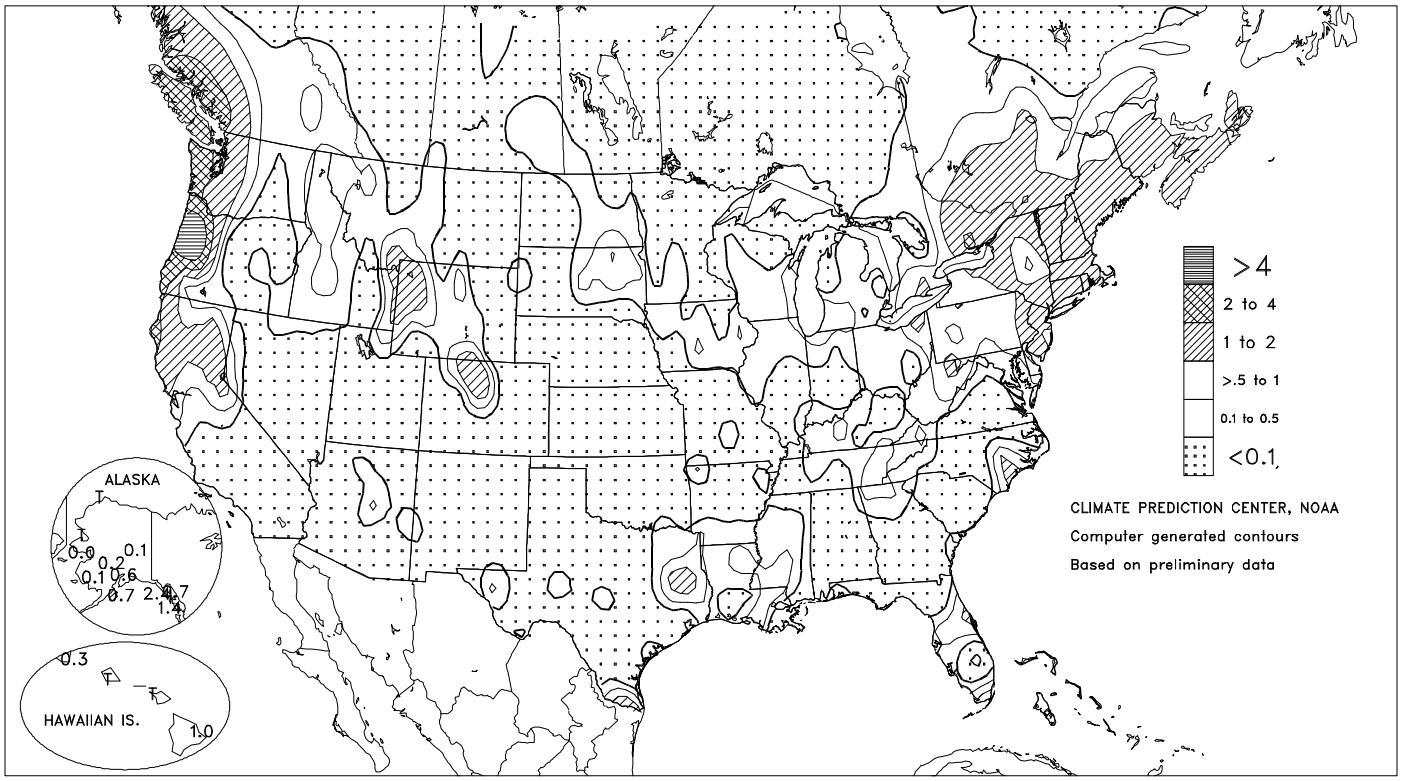
Meanwhile in the **Great Lakes region**, monthly snowfall reached 42.2 inches in **Erie, PA** and 45.6 inches (a November record) in **Buffalo, NY**. **Erie's** snowiest November remains 46.9 inches in 1950. Farther south, **Tyler, TX** netted a monthly rainfall total of 13.32 inches, eclipsing their November 1946 standard 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 total since 19 days in May 1991. In **Arkansas**, **Little Rock** received 11.16 inches (216 percent of normal) during November, their first monthly total greater than 10 inches since April 1991.

In contrast, November rainfall in **Peninsular Florida** was as low as a trace in **Ft. Myers** and 0.36 inch (12 percent of normal) in **Melbourne**. Year-to-date rainfall deficits rose to 18.30 inches in **West Palm Beach** and 17.17 inches in **Orlando**. Meanwhile in the **Pacific Northwest**, late-month showers brought some relief from recent dryness, but failed to significantly dent November precipitation deficits in locations such as **Redding, CA** (0.98 inch, or 19 percent of normal) and **Eugene, OR** (1.61 inches, or 19 percent).

Quiet weather (light showers) prevailed in **Hawaii**, but heavy precipitation persisted across parts of **southern Alaska**. In the **Aleutians**, **Cold Bay** netted 3.42 inches of rain on December 2-3, breaking their 24-hour precipitation record for December. **Cold Bay's** January 1 - December 2 precipitation reached 74.05 inches (227 percent of normal), easily surpassing their former annual record of 53.15 inches, set in 1978. In addition, bitterly cold weather overspread **western Alaska**, where weekly temperatures averaged as much as 15 ºF below normal.

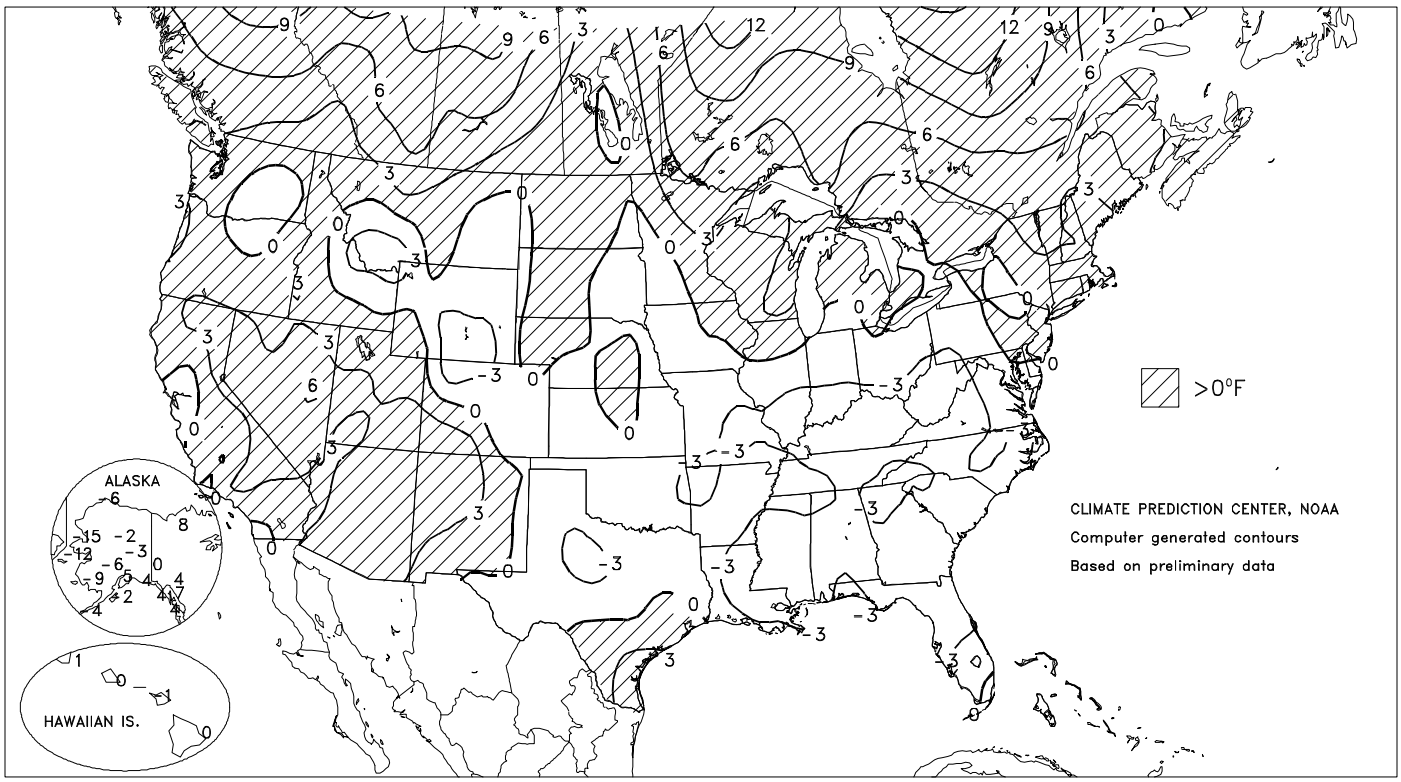
Total Precipitation (Inches)

NOV 26 - DEC 2, 2000



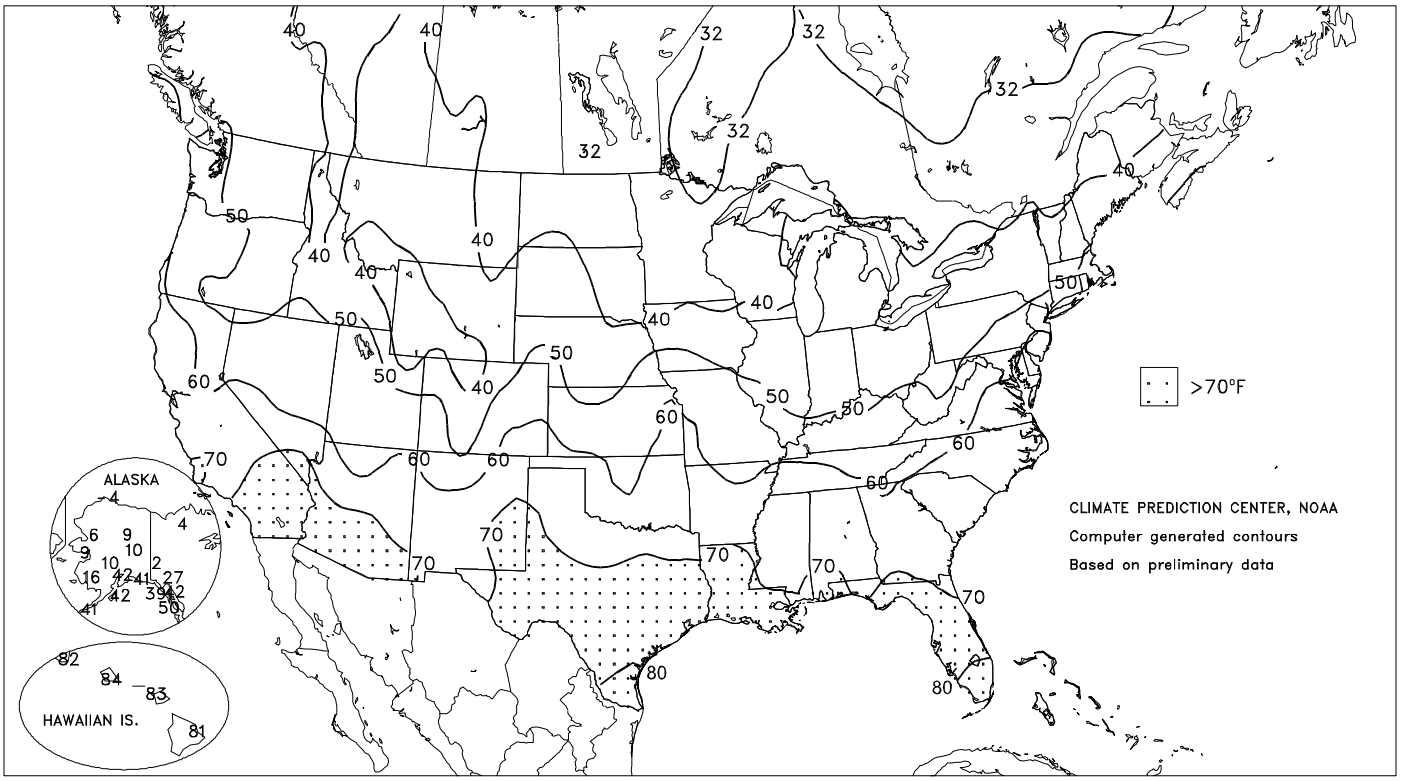
Departure of Average Temperature from Normal (°F)

NOV 26 - DEC 2, 2000



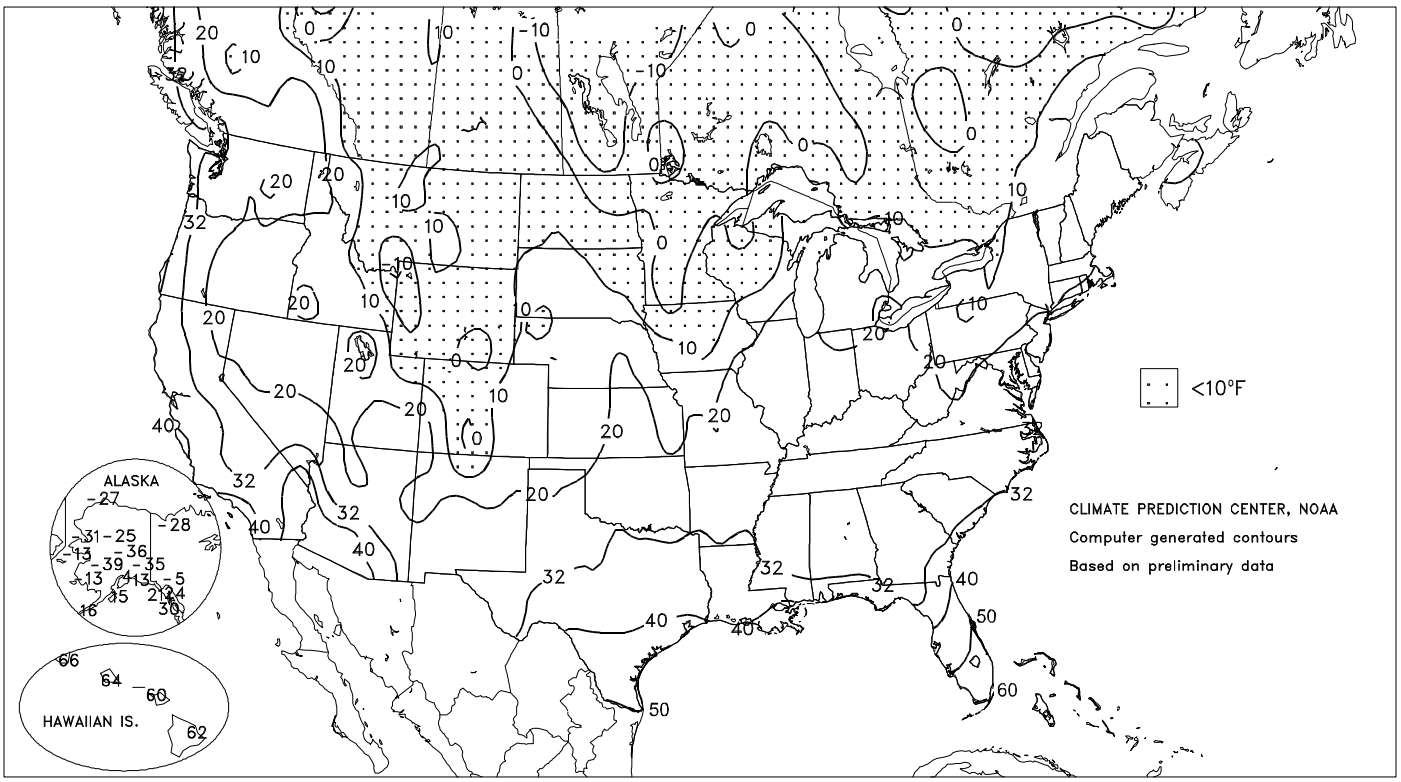
Extreme Maximum Temperature (°F)

NOV 26 - DEC 2, 2000



Extreme Minimum Temperature (°F)

NOV 26 - DEC 2, 2000



National Weather Data for Selected Cities

Weather Data for the Week Ending December 2, 2000

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 Sep 1	PCT. NORMAL SINCE Sep 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	58	35	64	29	46	-3	0.20	-0.93	0.20	0.00	0	48.21	97	91	36	0	2	1	0
	HUNTSVILLE	55	34	63	27	44	-3	0.01	-1.28	0.01	0.00	0	39.29	76	92	57	0	3	1	0
	MOBILE	65	39	73	36	52	-4	0.03	-1.10	0.02	0.02	6	41.95	71	90	44	0	0	2	0
	MONTGOMERY	63	35	70	28	49	-4	0.01	-1.12	0.01	0.01	3	32.95	68	92	41	0	2	1	0
AK	ANCHORAGE	28	17	42	4	22	4	0.57	0.34	0.56	0.00	0	13.83	93	90	78	0	7	2	1
	BARROW	-8	-18	-4	-27	-13	-5	0.01	-0.03	0.01	0.00	0	5.22	120	83	78	0	7	1	0
	FAIRBANKS	2	-14	10	-36	-6	-2	0.08	-0.11	0.04	0.00	0	10.10	100	83	80	0	7	2	0
	JUNEAU	40	32	42	24	36	7	0.71	-0.27	0.31	0.46	164	65.18	130	92	79	0	4	6	0
	KODIAK	36	25	42	15	31	-1	0.73	-0.68	0.44	0.00	0	53.23	87	81	71	0	7	4	0
	NOME	4	-7	9	-13	-2	-13	0.00	-0.21	0.00	0.00	0	18.76	133	74	68	0	7	0	0
AZ	FLAGSTAFF	55	23	59	18	39	6	0.00	-0.52	0.00	0.00	0	15.63	76	85	29	0	7	0	0
	PHOENIX	74	48	76	44	61	4	0.00	-0.20	0.00	0.00	0	7.87	117	61	33	0	0	0	0
	TUCSON	74	43	77	36	58	3	0.00	-0.19	0.00	0.00	0	12.44	113	62	32	0	0	0	0
	YUMA	75	52	77	46	63	4	0.00	-0.08	0.00	0.00	0	1.93	70	44	31	0	1	0	0
AR	FORT SMITH	54	32	60	27	43	-2	0.00	-0.85	0.00	0.00	0	35.59	93	91	45	0	4	0	0
	LITTLE ROCK	57	34	65	29	46	-1	0.00	-1.23	0.00	0.00	0	40.05	86	90	41	0	1	0	0
CA	BAKERSFIELD	56	38	70	32	47	-4	0.01	-0.14	0.01	0.00	0	4.96	97	93	84	0	1	1	0
	FRESNO	55	41	64	38	48	-1	0.02	-0.31	0.01	0.00	0	15.17	164	97	85	0	0	2	0
	LOS ANGELES	66	50	70	48	58	-1	0.08	-0.34	0.03	0.01	10	10.88	104	98	73	0	0	5	0
	REDDING	60	40	69	31	50	3	0.56	-0.73	0.53	0.00	0	34.88	124	98	84	0	1	3	1
	SACRAMENTO	54	41	61	35	48	0	0.22	-0.40	0.21	0.01	6	24.23	160	99	75	0	0	2	0
	SAN DIEGO	64	51	69	47	57	-2	0.00	-0.37	0.00	0.00	0	6.91	82	94	70	0	0	0	0
	SAN FRANCISCO	58	46	61	41	52	0	0.35	-0.35	0.34	0.00	0	22.54	134	96	85	0	0	2	0
	STOCKTON	54	40	59	33	47	-1	0.05	-0.47	0.03	0.00	0	14.43	121	99	93	0	0	3	0
CO	ALAMOSA	47	7	53	4	27	4	0.00	-0.09	0.00	0.00	0	4.86	68	69	37	0	7	0	0
	CO SPRINGS	45	20	59	13	32	-1	0.00	-0.11	0.00	0.00	0	16.63	105	70	28	0	7	0	0
	DENVER	45	21	52	16	33	-1	0.00	-0.18	0.00	0.00	0	15.06	102	82	31	0	7	0	0
	GRAND JUNCTION	48	24	52	20	36	2	0.00	-0.14	0.00	0.00	0	7.33	91	71	45	0	7	0	0
	PUEBLO	48	14	59	10	31	-4	0.00	-0.11	0.00	0.00	0	12.20	113	79	47	0	7	0	0
CT	BRIDGEPORT	46	34	53	22	40	0	1.32	0.45	0.98	0.00	0	43.15	112	90	65	0	2	3	1
	HARTFORD	43	29	51	16	36	0	0.52	-0.42	0.24	0.00	0	40.07	99	85	58	0	5	4	0
DC	WASHINGTON	52	36	59	28	44	0	0.37	-0.36	0.21	0.00	0	38.00	106	89	50	0	1	2	0
DE	WILMINGTON	50	35	59	24	42	1	1.28	0.48	1.06	0.00	0	42.23	112	78	42	0	3	4	1
FL	DAYTONA BEACH	70	47	75	43	59	-4	0.71	0.12	0.70	0.01	6	39.39	87	98	54	0	0	2	1
	JACKSONVILLE	66	41	69	34	53	-5	0.04	-0.51	0.04	0.00	0	37.41	77	97	50	0	0	1	0
	KEY WEST	76	68	84	65	72	-1	0.24	-0.28	0.23	0.00	0	32.96	87	89	72	0	0	2	0
	MIAMI	79	65	85	60	72	1	0.17	-0.27	0.07	0.00	0	54.92	101	86	60	0	0	2	0
	ORLANDO	73	50	78	47	62	-3	0.88	0.35	0.88	0.00	0	28.81	62	93	54	0	0	1	1
	PENSACOLA	65	44	72	39	54	-3	0.15	-0.72	0.01	0.13	50	39.51	68	89	49	0	0	3	0
	TALLAHASSEE	66	36	71	29	51	-5	0.01	-1.05	0.01	0.00	0	41.86	69	96	44	0	2	1	0
	TAMPA	72	51	75	48	62	-3	0.17	-0.30	0.16	0.00	0	28.50	68	93	61	0	0	2	0
	WEST PALM	77	60	81	53	69	-1	0.10	-0.69	0.10	0.00	0	40.00	68	89	60	0	0	1	0
GA	ATHENS	57	36	63	29	46	-3	0.06	-0.83	0.04	0.04	16	31.97	70	86	53	0	2	2	0
	ATLANTA	56	37	61	30	47	-2	0.12	-0.83	0.10	0.10	37	33.05	71	81	49	0	1	2	0
	AUGUSTA	61	33	70	26	47	-4	0.01	-0.63	0.01	0.01	5	36.62	88	94	54	0	4	1	0
	COLUMBUS	62	38	68	30	50	-2	0.01	-1.01	0.01	0.01	3	33.46	72	91	35	0	1	1	0
	MACON	62	34	69	27	48	-4	0.06	-0.75	0.05	0.05	21	37.60	93	94	38	0	3	2	0
	SAVANNAH	64	38	68	30	51	-4	0.04	-0.53	0.04	0.04	24	34.86	75	98	55	0	1	1	0
HI	HILO	80	67	81	62	73	0	0.96	-2.31	0.39	0.04	5	131.8	112	91	81	0	0	4	0
	HONOLULU	82	68	84	64	75	-1	0.01	-0.78	0.01	0.00	0	6.95	38	85	76	0	0	1	0
	KAHULUI	82	64	83	60	73	-1	0.01	-0.67	0.01	0.00	0	9.13	51	89	81	0	0	1	0
	LIHUE	81	69	82	66	75	1	0.29	-0.93	0.21	0.01	3	19.73	52	95	84	0	0	4	0
ID	BOISE	45	30	49	24	37	3	0.47	0.13	0.20	0.00	0	11.24	104	90	74	0	5	3	0
	LEWISTON	43	31	48	27	37	0	0.26	-0.02	0.19	0.00	0	12.28	109	92	78	0	5	3	0
	POCATELLO	40	22	43	13	31	2	0.16	-0.10	0.08	0.00	0	8.72	79	88	74	0	6	3	0
IL	CHICAGO/O'HARE	38	31	41	27	34	1	0.04	-0.63	0.02	0.01	6	31.25	93	90	76	0	6	3	0
	MOLINE	39	27	46	21	33	1	0.29	-0.26	0.16	0.12	75	35.75	97	91	77	0	7	3	0
	PEORIA	39	28	48	24	34	0	0.27	-0.35	0.18	0.08	47	25.39	75	95	70	0	6	3	0
	ROCKFORD	37	30	40	24	33	2	0.54	0.00	0.14	0.09	60	41.94	122	95	84	0	4	5	0
	SPRINGFIELD	39	29	49	23	34	-2	0.04	-0.60	0.03	0.03	16	30.34	93	90	73	0	7	2	0
IN	EVANSVILLE	44	29	49	25	36	-5	0.07	-0.83	0.07	0.07	28	44.50	112	93	70	0	7	1	0
	FORT WAYNE	38	29	44	21	33	-2	0.85	0.16	0.63	0.01	5	34.50	108	96	85	0	5	4	1
	INDIANAPOLIS	40	30	46	24	35	-2	0.09	-0.71	0.07	0.07	30	37.77	103	93	76	0	5	2	0
	SOUTH BEND	37	28	42	17	33	-2	0.88	0.08	0.35	0.00	0	34.82	97	93	82	0	6	3	0
IA	BURLINGTON	40	27	49	20	33	0	0.21	-0.29	0.13	0.07	50	31.39	92	92	62	0	7	3	0
	CEDAR RAPIDS	37	24	44	14	30	0	0.20	-0.23	0.13	0.06	50	31.54	98	99	74	0	7	3	0
	DES MOINES	38	25	50	15	31	0	0.67	0.32	0.49	0.06	67	21.28	67	89	81	0	7	6	0
	DUBUQUE	36	25	45	13	31	2	0.16	-0.41	0.12	0.03	20	31.30	86	89	79	0	7	3	0
	SIOUX CITY	34	19	40	12	26	-2	0.04	-0.15	0.03	0.03	50	23.15	92	93	79	0	7	2	0
	WATERLOO	34	23	43	5	28	0	0.12	-0.24	0.05	0.04	40	36.26	112	93	80	0	7	4	0
KS	CONCORDIA	45	26	53	22	36	1	0.00	-0.22	0.00	0.00	0	17.63	63	81	59	0	7	0	0
	DODGE CITY	48	23	59	16	36	-1	0.00	-0.17	0.00	0.00	0	21.09	101	76	38	0	7	0	0
	GOODLAND	44	20	59	14	32	-1	0.00	-0.13	0.00	0.00	0	18.50	104	84	49	0	7	0	0
	TOPEKA	47	24	60	19	35	-1	0.12	-0.25	0.00	0.12	120	27.12	80	86	58	0	7	1	0

Based on 1961-90 normals

***** Not Available**

Weather Data for the Week Ending December 2, 2000

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 Sep 1	PCT. NORMAL SINCE Sep 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	51	28	60	23	39	1	0.00	-0.32	0.00	0.00	0	31.46	111	76	47	0	7	0	0
KY	JACKSON	45	33	52	27	39	-4	0.19	-0.85	0.13	0.13	45	41.86	92	88	52	0	3	2	0
	LEXINGTON	44	30	50	26	37	-4	0.07	-0.83	0.04	0.04	15	38.44	94	94	71	0	5	2	0
	LOUISVILLE	44	32	51	28	38	-4	0.19	-0.71	0.17	0.17	68	45.37	111	90	65	0	5	2	0
	PADUCAH	49	30	58	23	40	-2	0.05	-1.06	0.05	0.05	16	45.88	102	94	51	0	5	1	0
LA	BATON ROUGE	63	39	70	35	51	-5	0.90	-0.27	0.82	0.82	241	36.19	65	10	45	0	0	2	1
	LAKE CHARLES	67	45	75	37	56	-1	0.37	-0.72	0.26	0.10	32	49.89	100	95	53	0	0	4	0
	NEW ORLEANS	66	44	74	41	55	-3	0.25	-0.98	0.24	0.25	69	36.44	65	93	55	0	0	2	0
	SHREVEPORT	63	40	70	34	51	-1	0.33	-0.68	0.21	0.02	7	50.34	119	95	49	0	0	4	0
ME	CARIBOU	32	25	37	16	29	6	0.45	-0.36	0.24	0.00	0	34.59	103	96	84	0	7	4	0
	PORTLAND	43	27	49	18	35	2	1.41	0.23	1.38	0.00	0	36.17	90	91	59	0	6	3	1
MD	BALTIMORE	51	33	57	27	42	0	0.47	-0.32	0.27	0.00	0	39.61	105	83	51	0	4	2	0
MA	BOSTON	45	35	52	22	40	1	1.58	0.59	1.22	0.00	0	41.09	109	86	61	0	3	4	1
	WORCESTER	39	29	47	15	34	1	1.21	0.21	0.89	0.00	0	40.65	92	90	54	0	5	3	1
MI	ALPENA	35	26	42	12	31	1	0.58	0.07	0.47	0.01	7	24.55	91	94	74	0	5	5	0
	GRAND RAPIDS	37	29	41	18	33	1	0.36	-0.39	0.17	0.00	0	40.96	123	91	75	0	5	3	0
	HOUGHTON LAKE	35	27	39	12	31	2	0.56	0.05	0.43	0.00	0	24.91	94	91	79	0	6	3	0
	LANSING	37	28	45	15	33	1	0.43	-0.18	0.26	0.00	0	31.09	109	97	84	0	5	5	0
	MUSKEGON	39	30	42	18	35	1	0.26	-0.47	0.15	0.00	0	34.25	115	88	70	0	4	3	0
	TRAVERSE CITY	37	30	41	18	34	3	0.22	-0.31	0.14	0.00	0	29.78	107	89	61	0	5	3	0
MN	DULUTH	29	18	33	-2	23	3	0.03	-0.31	0.03	0.00	0	30.52	106	93	77	0	7	1	0
	INT'L FALLS	28	17	31	0	22	7	0.03	-0.18	0.03	0.00	0	22.67	96	88	73	0	7	1	0
	MINNEAPOLIS	33	22	37	12	27	2	0.05	-0.24	0.03	0.02	25	29.12	107	93	78	0	7	2	0
	ROCHESTER	31	22	34	10	27	3	0.09	-0.21	0.03	0.03	38	41.04	143	95	85	0	7	5	0
	ST. CLOUD	30	14	38	-5	22	1	0.15	-0.07	0.07	0.00	0	20.46	77	95	82	0	7	3	0
MS	JACKSON	59	33	67	30	46	-6	0.31	-0.97	0.22	0.09	24	38.81	78	95	47	0	3	2	0
	MERIDIAN	60	32	67	26	46	-6	0.11	-1.16	0.08	0.09	24	34.41	67	98	48	0	4	3	0
	TUPELO	56	34	65	27	45	-3	0.05	-1.28	0.03	0.00	0	39.62	79	90	52	0	2	3	0
MO	COLUMBIA	44	27	55	21	35	-3	0.04	-0.61	0.04	0.04	22	38.69	105	87	55	0	7	1	0
	KANSAS CITY	46	25	59	18	35	-1	0.02	-0.37	0.01	0.02	18	34.16	94	89	52	0	7	2	0
	SAINT LOUIS	44	31	56	28	37	-3	0.07	-0.72	0.05	0.07	32	36.10	104	86	71	0	5	2	0
	SPRINGFIELD	47	28	59	20	37	-3	0.15	-0.69	0.00	0.15	63	33.93	85	81	55	0	6	1	0
MT	BILLINGS	39	22	49	16	31	2	0.20	0.02	0.20	0.00	0	11.47	80	77	44	0	7	1	0
	BUTTE	30	4	39	-4	17	-5	0.06	-0.05	0.03	0.00	0	8.74	75	89	55	0	7	3	0
	GLASGOW	30	15	38	7	23	2	0.07	0.00	0.03	0.00	0	13.60	128	89	81	0	7	3	0
	GREAT FALLS	41	25	48	17	33	5	0.07	-0.10	0.07	0.00	0	9.60	67	77	48	0	6	1	0
	KALISPELL	35	23	45	14	29	3	0.35	-0.01	0.17	0.01	10	9.05	61	90	74	0	7	4	0
	MILES CITY	31	14	37	4	22	-3	0.04	-0.08	0.04	0.00	0	11.95	89	92	70	0	7	1	0
	MISSOULA	35	20	44	14	28	1	0.04	-0.18	0.04	0.00	0	11.36	92	90	82	0	7	1	0
NE	GRAND ISLAND	38	24	45	19	31	0	0.11	-0.10	0.00	0.11	183	19.50	80	89	69	0	7	1	0
	LINCOLN	41	19	53	14	30	-2	0.20	-0.04	0.02	0.18	257	22.75	83	88	67	0	7	2	0
	NORFOLK	36	24	44	20	30	1	0.00	-0.19	0.00	0.00	0	23.47	96	89	76	0	7	0	0
	NORTH PLATTE	38	19	46	11	28	-1	0.00	-0.13	0.00	0.00	0	16.28	86	91	58	0	7	0	0
	OMAHA	40	23	55	17	32	0	0.13	-0.16	0.00	0.13	163	26.29	91	93	85	0	7	1	0
	SCOTTSBLUFF	45	17	49	13	31	1	0.05	-0.09	0.04	0.00	0	14.36	97	83	56	0	7	2	0
	VALENTINE	40	21	48	16	31	4	0.04	-0.07	0.04	0.00	0	19.32	108	89	61	0	7	1	0
NV	ELY	48	24	52	19	36	7	0.00	-0.15	0.00	0.00	0	10.02	106	89	59	0	6	0	0
	LAS VEGAS	65	42	74	39	54	5	0.00	-0.10	0.00	0.00	0	3.44	91	51	35	0	0	0	0
	RENO	53	27	60	24	40	4	0.32	0.10	0.32	0.00	0	6.32	96	83	67	0	7	1	0
	WINNEMUCCA	49	22	54	15	36	3	0.07	-0.15	0.07	0.00	0	9.56	129	87	65	0	7	1	0
NH	CONCORD	42	27	52	18	35	4	0.73	-0.08	0.66	0.00	0	35.65	107	89	54	0	4	4	1
NJ	NEWARK	48	36	59	25	42	0	1.23	0.35	1.07	0.00	0	39.13	96	79	49	0	2	2	1
NM	ALBUQUERQUE	54	32	63	25	43	4	0.00	-0.09	0.00	0.00	0	8.02	95	73	36	0	1	0	0
NY	ALBANY	40	31	45	15	35	2	0.69	-0.04	0.53	0.00	0	42.52	127	91	65	0	3	5	1
	BINGHAMTON	34	27	43	12	30	-2	0.57	-0.18	0.44	0.00	0	42.39	124	95	83	0	6	4	0
	BUFFALO	35	30	42	17	33	-2	0.79	-0.12	0.41	0.00	0	38.72	110	95	76	0	3	5	0
	ROCHESTER	42	30	47	18	36	1	1.19	0.51	0.83	0.09	47	33.71	115	91	74	0	3	7	1
	SYRACUSE	38	29	45	11	33	-1	1.16	0.33	0.68	0.06	26	34.05	95	92	74	0	4	6	1
NC	ASHEVILLE	51	29	57	22	40	-3	0.00	-0.83	0.00	0.00	0	33.22	75	86	53	0	6	0	0
	CHARLOTTE	55	33	63	25	44	-3	0.02	-0.74	0.02	0.02	9	33.72	85	92	46	0	4	1	0
	GREENSBORO	51	32	60	24	42	-3	0.04	-0.68	0.02	0.01	5	37.55	95	90	55	0	4	3	0
	HATTERAS	59	46	66	40	52	-1	0.24	-0.84	0.20	0.20	69	53.49	103	86	62	0	0	2	0
	RALEIGH	55	33	64	25	44	-3	0.03	-0.68	0.03	0.03	15	37.65	98	88	50	0	4	1	0
	WILMINGTON	60	38	68	31	49	-4	0.42	-0.37	0.39	0.39	177	52.54	103	91	43	0	2	2	0
ND	BISMARCK	31	18	39	7	24	3	0.17	0.06	0.09	0.03	100	22.83	152	91	83	0	7	4	0
	DICKINSON	29	16	40	8	23	0	0.18	0.10	0.12	0.06	300	15.85	101	94	76	0	7	2	0
	FARGO	27	9	33	-3	18	-1	0.23	0.09	0.23	0.00	0	33.79	179	91	79	0	7	1	0
	GRAND FORKS	28	7	34	0	17	-1	0.55	0.41	0.32	0.00	0	24.22	137	93	80	0	7	2	0
	JAMESTOWN	27	15	35	5	21	2	0.21	0.10	0.11	0.00	0	22.79	139	97	81	0	7	2	0
	WILLISTON	27	11	36	4	19	0	0.18	0.07	0.11	0.11	367	18.82	143	92	83	0	7	3	0
OH	AKRON-CANTON	37	30	45	17	33	-3	0.62	-0.11	0.24	0.01	5	42.55	125	96	86	0	5	5	0
	CINCINNATI	43	29	46	26	36	-3	0.11	-0.69	0.05	0.04	18	42.67	111	90	69	0	6	3	0
	CLEVELAND	40	32	48	20	36	-1	0.77	0.01	0.35	0.06	29	37.89	112	96	82	0	4	7	0
	COLUMBUS	41	31	47	23	36	-1	0.42	-0.33	0.16	0.16	80	39.42	111	91	77	0	4	4	0
	DAYTON	41	29	47	22	35	-2	0.23	-0.50	0.11	0.11	55	32.02	94	94	76	0	6	3	0
	MANSFIELD	37	30	45	20	33	-3	1.26	0.43	0.83	0.01	5	37.26	101	99	80	0	5	4	1

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***** Not Available**

Weather Data for the Week Ending December 2, 2000

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 Sep 1	PCT. NORMAL SINCE Sep 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	39	31	46	20	35	1	0.17	-0.55	0.09	0.00	0	36.15	120	93	77	0	4	3	0
	YOUNGSTOWN	38	29	46	17	34	-1	0.40	-0.33	0.17	0.03	15	33.62	97	95	83	0	5	7	0
OK	OKLAHOMA CITY	51	32	59	27	42	-2	0.00	-0.37	0.00	0.00	0	36.74	115	84	45	0	4	0	0
	TULSA	54	30	63	25	42	-2	0.00	-0.62	0.00	0.00	0	39.43	102	87	49	0	5	0	0
OR	ASTORIA	54	41	57	34	48	4	2.09	-0.40	0.94	0.70	101	46.51	82	96	82	0	0	6	1
	BURNS	38	22	42	17	30	1	0.47	0.18	0.23	0.00	0	10.21	115	90	78	0	7	4	0
	EUGENE	52	36	57	31	44	1	0.71	-1.38	0.37	0.15	26	33.90	82	95	89	0	2	6	0
	MEDFORD	47	37	53	33	42	2	0.35	-0.45	0.28	0.00	0	17.83	113	10	84	0	0	4	0
	PENDLETON	44	29	50	26	36	-1	0.13	-0.27	0.11	0.00	0	15.69	149	94	84	0	7	2	0
	PORTLAND	50	39	52	32	44	1	1.21	-0.19	0.39	0.42	108	27.16	89	95	83	0	1	7	0
	SALEM	51	36	55	31	44	2	1.30	-0.31	0.52	0.43	98	26.89	82	98	93	0	3	6	1
PA	ALLENTOWN	44	30	51	15	37	0	0.86	-0.03	0.66	0.00	0	39.66	98	83	55	0	4	2	1
	ERIE	39	32	45	17	36	-1	0.84	-0.09	0.27	0.02	8	43.83	115	92	75	0	2	6	0
	MIDDLETOWN	48	34	54	21	41	2	0.75	-0.05	0.43	0.00	0	38.24	102	90	56	0	2	2	0
	PHILADELPHIA	50	35	63	26	43	2	1.03	0.23	0.84	0.00	0	41.43	108	87	61	0	3	2	1
	PITTSBURGH	39	32	47	19	35	-2	0.69	0.01	0.30	0.11	58	37.57	110	94	73	0	3	5	0
	WILKES-BARRE	40	30	49	13	35	-1	0.25	-0.42	0.13	0.00	0	33.32	98	87	63	0	3	4	0
	WILLIAMSPORT	43	33	49	17	38	2	1.01	0.20	0.84	0.00	0	39.28	104	88	65	0	2	4	1
RI	PROVIDENCE	46	33	55	21	39	1	1.13	0.08	0.99	0.00	0	41.05	99	90	62	0	3	2	1
SC	BEAUFORT	63	40	66	35	51	-4	0.04	-0.58	0.04	0.04	22	33.14	68	94	45	0	0	1	0
	CHARLESTON	63	38	67	33	50	-5	0.04	-0.59	0.04	0.04	22	43.34	89	90	43	0	0	1	0
	COLUMBIA	60	34	68	27	47	-4	0.02	-0.70	0.02	0.00	0	35.23	76	92	42	0	3	1	0
	GREENVILLE	56	36	63	30	46	-1	0.17	-0.72	0.00	0.17	65	33.26	70	82	42	0	2	1	0
SD	ABERDEEN	28	15	36	2	21	-1	1.03	0.92	0.55	0.00	0	26.84	148	94	85	0	7	2	1
	HURON	31	16	37	8	24	-1	0.60	0.49	0.24	0.12	400	19.85	101	94	80	0	7	5	0
	RAPID CITY	38	19	50	16	29	0	0.02	-0.09	0.01	0.00	0	16.51	102	85	52	0	7	2	0
	SIOUX FALLS	31	14	37	4	23	-2	0.31	0.11	0.23	0.05	83	25.60	110	94	85	0	7	4	0
TN	BRISTOL	50	29	55	20	39	-3	0.11	-0.63	0.07	0.00	0	33.96	90	87	45	0	5	2	0
	CHATTANOOGA	56	33	63	27	45	-1	0.40	-0.77	0.40	0.40	121	46.47	96	87	50	0	4	1	0
	KNOXVILLE	52	34	60	27	43	-1	0.14	-0.84	0.14	0.14	50	44.73	104	85	50	0	2	1	0
	MEMPHIS	56	37	66	34	46	-2	0.03	-1.32	0.03	0.00	0	34.41	74	86	45	0	0	1	0
	NASHVILLE	51	32	61	24	42	-3	0.11	-0.96	0.09	0.02	6	39.02	91	84	48	0	3	2	0
TX	ABILENE	58	35	69	28	46	-4	0.00	-0.26	0.00	0.00	0	21.24	91	79	51	0	2	0	0
	AMARILLO	54	25	70	18	40	-1	0.00	-0.11	0.00	0.00	0	16.93	88	79	32	0	7	0	0
	AUSTIN	66	44	77	36	55	-1	0.02	-0.45	0.02	0.02	15	28.44	94	83	63	0	0	1	0
	BEAUMONT	69	47	75	39	58	0	0.18	-0.94	0.11	0.07	23	44.25	84	97	54	0	0	2	0
	BROWNSVILLE	78	59	82	48	68	3	0.42	0.13	0.20	0.28	350	15.38	60	97	67	0	0	4	0
	CORPUS CHRISTI	75	56	82	45	65	3	0.07	-0.22	0.05	0.05	63	23.06	80	90	64	0	0	3	0
	DEL RIO	65	47	71	38	56	0	0.03	-0.12	0.02	0.02	40	17.54	99	86	65	0	0	2	0
	EL PASO	61	34	68	27	48	1	0.00	-0.11	0.00	0.00	0	6.99	85	59	26	0	3	0	0
	FORT WORTH	60	38	69	34	49	-2	0.00	-0.44	0.00	0.00	0	30.06	94	88	44	0	0	0	0
	GALVESTON	69	55	76	46	62	2	0.07	-0.76	0.06	0.00	0	37.75	97	92	62	0	0	2	0
	HOUSTON	68	46	75	40	57	0	0.07	-0.76	0.05	0.01	4	44.95	105	93	60	0	0	3	0
	LUBBOCK	56	30	67	25	43	-2	0.00	-0.12	0.00	0.00	0	20.35	112	78	42	0	4	0	0
	MIDLAND	58	34	74	30	46	-2	0.10	-0.02	0.10	0.10	250	9.42	65	79	44	0	2	1	0
	SAN ANGELO	60	36	73	33	48	-2	0.13	-0.06	0.13	0.13	217	14.72	75	87	57	0	0	1	0
	SAN ANTONIO	68	49	77	40	58	2	0.01	-0.45	0.01	0.00	0	34.29	116	89	59	0	0	1	0
	VICTORIA	70	52	77	42	61	2	0.01	-0.49	0.01	0.00	0	33.97	96	94	72	0	0	1	0
	WACO	62	39	71	35	51	-2	0.01	-0.47	0.01	0.00	0	35.24	117	91	57	0	0	1	0
	WICHITA FALLS	55	34	62	31	45	-2	0.00	-0.30	0.00	0.00	0	24.53	89	82	55	0	2	0	0
UT	SALT LAKE CITY	46	28	60	23	37	2	0.02	-0.29	0.02	0.00	0	14.85	100	85	51	0	6	1	0
VT	BURLINGTON	36	30	42	19	33	3	1.08	0.41	0.51	0.02	11	35.29	110	92	72	0	4	6	1
VA	LYNCHBURG	49	28	58	20	39	-4	0.04	-0.69	0.04	0.00	0	33.26	88	84	49	0	6	1	0
	NORFOLK	55	40	64	35	48	0	0.01	-0.67	0.01	0.00	0	48.44	116	88	53	0	0	1	0
	RICHMOND	53	31	60	25	42	-3	0.10	-0.62	0.08	0.00	0	40.86	102	87	50	0	5	2	0
	ROANOKE	50	34	57	29	42	-1	0.08	-0.61	0.05	0.00	0	35.93	94	78	49	0	3	3	0
	WASH/DULLES	50	29	58	23	39	-1	0.35	-0.41	0.18	0.00	0	34.06	91	91	51	0	5	3	0
WA	OLYMPIA	48	34	51	27	41	1	2.15	0.19	1.15	0.47	89	38.11	89	85	71	0	4	7	1
	QUILLAYUTE	49	37	51	25	43	1	3.68	0.09	1.09	1.54	154	81.62	90	98	88	0	1	7	3
	SEATTLE-TACOMA	50	40	55	31	45	3	1.84	0.41	1.11	0.42	108	26.52	84	94	70	0	1	6	1
	SPOKANE	36	26	39	17	31	0	0.39	-0.18	0.21	0.00	0	13.51	95	99	86	0	7	3	0
	YAKIMA	38	24	48	17	31	-2	0.24	-0.06	0.23	0.00	0	5.88	88	92	84	0	7	2	0
WV	BECKLEY	41	28	50	21	35	-4	0.28	-0.44	0.19	0.02	10	37.90	100	88	68	0	5	3	0
	CHARLESTON	46	31	53	24	39	-3	0.20	-0.63	0.10	0.02	9	36.57	93	95	57	0	5	4	0
	ELKINS	41	27	48	16	34	-3	0.73	-0.07	0.55	0.02	9	42.47	102	95	62	0	5	5	1
	HUNTINGTON	45	31	53	25	38	-4	0.11	-0.68	0.07	0.04	18	36.50	95	91	55	0	5	3	0
WI	EAU CLAIRE	32	20	34	3	26	2	0.15	-0.14	0.12	0.00	0	39.00	127	99	72	0	7	3	0
	GREEN BAY	35	26	39	14	31	4	1.06	0.62	0.60	0.00	0	30.11	110	88	69	0	7	4	1
	LA CROSSE	35	24	38	11	30	2	0.21	-0.14	0.10	0.05	56	30.55	104	96	69	0	7	5	0
	MADISON	36	27	38	15	31	3	0.32	-0.16	0.12	0.08	62	38.97	134	90	78	0	5	4	0
	MILWAUKEE	37	31	40	24	34	3	0.56	-0.02	0.36	0.04	24	42.52	138	88	74	0	6	5	0
WY	CASPER	39	15	43	5	27	-1	0.02	-0.15	0.01	0.00	0	10.35	87	79	54	0	7	2	0
	CHEYENNE	38	20	41	10	29	-2	0.00	-0.11	0.00	0.00	0	12.83	92	69	39	0	7	0	0
	LANDER	30	11	40	6	21	-4	0.01	-0.14	0.01	0.00	0	8.38	67	86	75	0	7	1	0
	SHERIDAN	37	15	42	9	26	-1	0.01	-0.16	0.01	0.01	20	13.28	96	83	65	0	7	1	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 27 - December 3, 2000

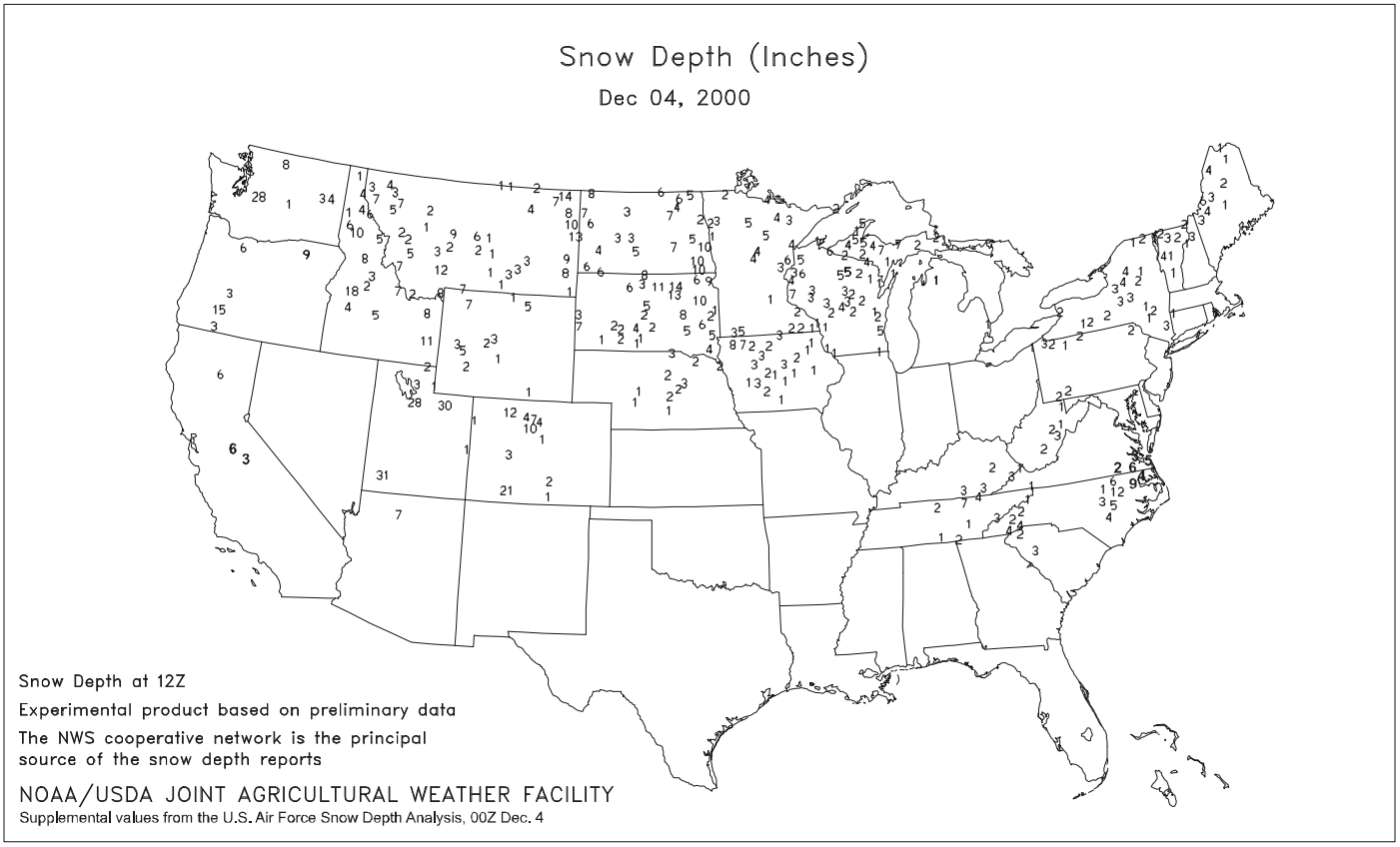
Weekly National Agricultural Summary provided by USDA/NASS

HIGHLIGHTS

Cold weather spread across most of the Nation, halting development of winter grains in the northern Great Plains and slowing development elsewhere. Snow covered winter wheat fields in parts of the Great Plains. Rain continued to replenish soil moisture supplies along the western Gulf Coast and adjacent parts of the southern Great Plains, Mississippi Delta, and Southeast. However, harvest of remaining peanut, cotton, and sugarcane crops was hindered. Light showers increased moisture supplies and aided emergence and growth of winter grains on the Atlantic Coastal Plains, but widespread moisture shortages remained. Harvest was virtually complete in the Corn Belt, but dry weather aided fall tillage in most areas.

The cotton harvest continued in the Southwest, aided by warm, dry weather. In California, harvest was more than 90 percent complete in most counties. Dry weather also aided California's sugar beet, alfalfa, and corn silage harvests. California growers planted and fertilized irrigated winter wheat and barley, but most dryland growers waited for rain. Above-normal temperatures accelerated growth in early-planted fields. Fruit growers pruned fruit trees and grape vines. Grapefruit and new crop Navel orange harvests remained active, while the Valencia orange harvest neared completion. Lemon picking was active in southern California. Winter vegetables thrived under nearly ideal conditions, and limited picking began on early-maturing fields. Growers prepared beds for next year's processing tomato crop.

Snow cover for the winter wheat crop was thin and uneven across most of the northern Great Plains and almost nonexistent in the central Great Plains and Corn Belt. In the Southeast, a late-week storm produced a mixture of wintery precipitation that increased moisture supplies, but halted harvest progress and other fieldwork.



International Weather and Crop Summary

November 26 - December 2, 2000

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

HIGHLIGHTS

EUROPE: Unseasonably warm weather spurred winter wheat development in western Europe and slowed cold hardening in eastern Europe.

FSU-WESTERN: An adequate snow cover protected dormant winter grains from the first bitter cold outbreak of the season in Russia, while colder weather induced winter grains into dormancy throughout Ukraine and the Baltics.

MIDDLE EAST: Widespread, locally heavy rain improved winter crop prospects throughout the region.

SOUTH AMERICA: In most of central Argentina, dry weather favored summer crop planting and filling to maturing winter wheat, while to the north, heavy showers slowed wheat and summer crop fieldwork. In southern Brazil, showers maintained adequate to abundant moisture supplies for germinating soybeans.

AUSTRALIA: Rain lingered over New South Wales, but favorable dryness eased excessive wetness elsewhere in the east.

EASTERN ASIA: Across the northern portions of the North China Plain, winter wheat continued to enter dormancy.

SOUTHEAST ASIA: Tropical Storm Rumbia made landfall in the central Philippines bringing heavy rains.

SOUTH AFRICA: Conditions remained very favorable for germination and establishment of corn and other summer crops.

NORTHWESTERN AFRICA: Light, scattered showers provided limited topsoil moisture to emerging winter grains.

November 2000

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	6	4	8	0	5	5.9	302	212
SWEDEN	STOCKHOLM	8	5	11	2	7	4.3	0	-53
FINLAN	HELSINKI	6	3	10	-2	4	4.2	137	66
UKINGD	ABERDEEN	8	3	11	-2	6	0.5	131	56
	MANCHESTER	9	5	15	1	7	0.6	179	102
	NOTTINGHAM	9	5	14	0	7	-0.3	90	32
	SOUTHAMPTON	11	7	14	2	9	1.1	161	69
IRELAN	DUBLIN	9	4	14	-1	6	-0.9	135	71
ICELAN	REYKJAVIK	3	-1	7	-8	1	0.0	10	-63
DENMAR	COPENHAGEN	9	6	11	2	7	1.9	64	16
LUXEMB	LUXEMBOURG	8	4	13	0	6	2.2	143	64
SWITZE	ZURICH	9	4	15	0	7	2.5	68	-16
	GENEVA	10	5	16	-1	7	2.4	148	56
FRANCE	PARIS/LEBOURG	11	7	16	1	9	2.0	27	-30
	STRASBOURG	11	4	16	-1	8	2.7	95	50
	BOURGES	12	6	16	2	9	2.5	117	59
	BORDEAUX	13	8	16	4	11	2.0	326	234
	TOULOUSE	14	7	20	1	10	1.7	81	33
	MARSEILLE	15	9	20	2	12	1.5	125	67
SPAIN	VALLADOLID	11	4	17	-1	7	-0.1	97	45
	MADRID	13	5	19	-2	9	-0.2	68	2
	SEVILLE	19	11	24	6	15	-0.2	64	-6
PORTUG	LISBON	17	12	20	7	14	0.0	143	44
GERMAN	HAMBURG	9	5	13	1	7	2.3	31	-41
	BERLIN	10	5	14	1	7	2.3	25	-25
	DUSSELDORF	11	6	14	3	8	2.2	58	-5
	LEIPZIG	10	4	13	0	7	2.3	18	-19
	DRESDEN	10	5	14	1	7	3.0	33	-10
	STUTTGART	10	3	15	-2	7	2.4	45	-3
	NURNBERG	9	3	16	-1	6	2.3	41	-4
	AUGSBURG	9	2	14	-3	5	1.9	44	-6
AUSTRI	VIENNA	11	5	19	-3	8	3.4	51	10
	INNSBRUCK	9	2	17	-2	6	2.2	111	51
CZECHR	PRAGUE	8	3	13	-2	5	2.5	31	0
POLAND	WARSAW	9	3	14	-3	6	2.7	54	13
	LODZ	10	4	13	-1	7	4.3	61	22
	KATOWICE	11	3	18	-2	7	4.8	76	35
	PRZEMYSL	12	5	19	-2	8	4.9	15	-26
HUNGAR	BUDAPEST	12	6	20	-1	9	4.1	55	2
YUGOSL	BELGRADE	18	9	25	1	13	6.2	21	-34
ROMANI	BUCHAREST	13	4	21	-4	9	2.7	20	-27
BULGAR	SOFIA	15	5	25	-4	10	5.0	6	-44
ITALY	MILAN	12	6	19	1	9	2.5	208	113
	VERONA	12	6	17	1	9	2.2	129	56
	VENICE	14	7	19	2	11	3.1	105	21
	GENOA	16	11	20	8	14	1.1	369	210
	ROME	18	11	23	3	14	1.9	65	-42
	NAPLES	20	11	26	3	16	3.7	123	-30
GREECE	THESSALONIKA	19	11	26	4	15	4.1	45	-13
	LARISSA	19	8	28	0	14	2.9	22	-38
	ATHENS	21	14	25	11	17	2.0	94	39
TURKEY	ISTANBUL	18	11	23	8	15	3.3	6	-82
	ANKARA	16	-2	21	-7	7	1.2	16	-9
CYPRUS	LARNACA	24	13	27	11	18	0.7	120	82
ESTONI	TALLINN	6	3	12	-4	5	3.6	82	18
RUSSIA	ST.PETERSBURG	4	1	11	-8	3	2.7	69	17
LITHUA	KAUNAS	7	4	12	-2	5	3.1	64	12
BELARU	MINSK	6	2	15	-7	4	3.1	65	15
RUSSIA	KAZAN	-2	-7	10	-20	-5	-1.2	17	-26
	MOSCOW	2	-2	11	-16	0	1.2	45	-11
	YEKATERINBURG	-4	-9	5	-23	-6	-0.7	21	-7
	OMSK	-9	-15	0	-25	-12	-4.5	22	-6
	KRASNOYARSK	-11	-17	-1	-31	-14	***	33	***
	NOVOSIBIRSK	-10	-14	-2	-29	-12	-2.4	33	5
	BARNAUL	-9	-14	0	-29	-11	-4.4	54	20
	KHABAROVSK	-6	-13	8	-24	-10	-1.6	4	-17
	VLADIVOSTOK	0	-5	14	-15	-2	-1.0	42	12
UKRAIN	KIEV	6	3	13	-7	5	2.5	44	-5
	LVOV	11	4	20	-1	8	4.9	17	-27
	KIROVOGRAD	5	2	12	-10	4	1.7	37	2

Based on Preliminary Reports

November 2000

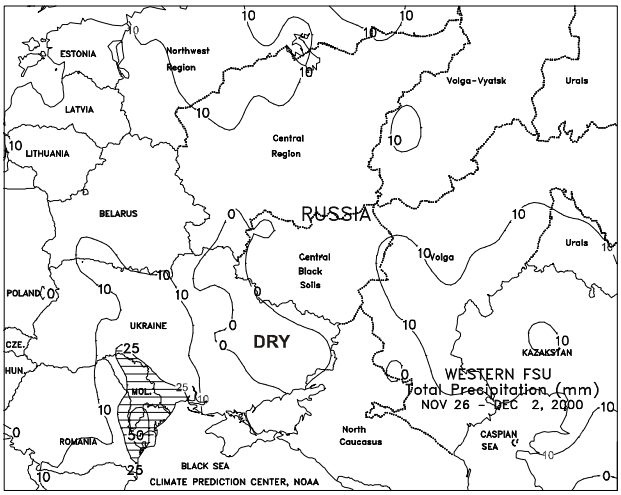
COUNTR	CITY	TEMPERATURE (C) AVG MAX	AVG MIN	HI MAX	LO MIN	AVG	DPART F/NRM	PRECIPITATION (MM) TOTAL	DPART F/NRM
	ODESSA	10	8	15	-1	9	3.0	53	14
	YALTA	15	10	19	5	12	3.1	25	-36
RUSSIA	VORONEZH	2	-3	10	-15	-1	***	11	***
	SARATOV	0	-4	12	-13	-2	-0.4	16	-24
	VOLGOGRAD	2	-4	13	-15	-1	-0.8	26	-8
UKRAIN	ZDANOV	4	1	12	-8	3	0.6	22	-5
RUSSIA	ASTRAKHAN	5	-2	18	-11	2	-1.7	5	-12
	KRASNODAR	10	0	17	-9	5	-1.4	8	-53
KAZAKS	ATBASAR	-7	-16	4	-34	-11	-3.8	10	-12
RUSSIA	ORENBURG	0	-7	8	-21	-4	-0.6	13	-26
KAZAKS	KARAGANDA	-6	-13	2	-28	-9	-4.2	41	14
GEORGI	TBILISI	11	5	19	-1	8	-0.3	11	-21
UZBEKI	TASHKENT	12	3	20	-4	8	-0.1	37	-7
TURKME	ASHKHABAD	14	3	21	-2	8	-1.3	16	-5
SYRIA	DAMASCUS	21	3	26	-1	12	-0.6	6	-19
ISRAEL	JERUSALEM	***	***	21	10	***	***	***	***
INDIA	AMRITSAR	27	11	31	6	19	1.1	2	-5
	NEW DELHI	29	14	33	8	21	0.6	1	-5
	AHMEDABAD	34	17	37	11	25	0.5	0	-11
	INDORE	31	16	33	11	24	2.1	0	-21
	CALCUTTA	31	20	34	17	25	1.7	0	-16
	VERAVAL	34	21	38	17	28	1.5	0	-26
	BOMBAY	35	21	37	17	28	1.1	0	-7
	POONA	31	13	33	10	22	-0.1	15	-8
	BEGAMPET	31	17	33	14	24	1.3	3	-20
	KAKINADA	31	23	32	20	27	1.6	16	-91
	MADRAS	31	23	33	21	27	1.0	177	-162
	MANGALORE	34	23	37	21	28	1.1	4	-67
N KORE	NAMPO	9	2	19	-5	5	-0.3	35	7
S KORE	SEOUL	11	4	20	-4	7	1.1	27	-9
JAPAN	SAPPORO	7	1	18	-4	4	-0.2	191	92
	NAGOYA	18	11	25	3	14	2.6	90	20
	TOKYO	16	11	23	5	13	0.8	133	43
	YOKOHAMA	16	10	22	6	13	0.7	142	38
	KYOTO	18	10	25	2	14	2.6	210	136
	OSAKA	19	12	25	5	15	2.3	176	111
THAILA	PHITSANULOK	32	22	34	17	27	-0.1	0	-32
	BANGKOK	33	24	35	20	28	0.9	6	-47
MALAYS	KUALA LUMPUR	32	24	34	24	28	2.0	380	104
VIETNA	HANOI	26	19	30	14	23	0.8	7	-36
CHINA	HARBIN	-3	-12	13	-24	-8	-0.3	13	5
	HAMI	6	-7	16	-11	-1	-0.9	0	-2
	LANCHOW	8	-1	19	-6	4	1.7	4	-1
	BEIJING	7	-1	18	-5	3	-1.1	10	4
	TIENTSIN	8	0	18	-5	4	-1.5	5	-5
	LHASA	14	-2	18	-7	6	2.5	0	-2
	KUNMING	18	8	21	1	13	1.6	19	-21
	CHENGCHOW	12	3	23	-2	7	-0.4	25	0
	YEHCHANG	14	7	26	1	11	-1.8	51	5
	HANKOW	14	7	25	2	10	-0.6	61	5
	NEIJIANG	16	10	25	5	13	-0.9	37	1
	CHIHKIANG	15	7	25	1	11	-1.3	46	-23
	NANJING	14	7	24	1	11	-0.2	81	25
	HANGZHOU	15	9	24	3	12	0.0	123	64
	NANCHANG	15	9	25	3	12	-1.1	135	81
	TAIPEI	***	***	30	15	***	***	195	131
	CANTON	23	16	29	9	20	0.3	37	-5
	NANNING	24	13	29	5	18	-0.7	12	-33
CANARY	LAS PALMAS	24	18	28	16	21	0.8	4	-17
MOROCC	CASABLANCA	20	12	28	8	16	0.0	17	-55
	MARRAKECH	22	10	28	6	16	0.5	7	-31
ALGERI	ALGER	22	11	30	4	16	1.2	75	-30
	BATNA	18	5	25	-3	11	1.8	8	-28
TUNISI	TUNIS	22	13	30	6	18	1.8	17	-40
NIGER	NIAMEY	37	20	39	16	29	0.7	0	0
MALI	TIMBUKTU	35	21	39	15	28	1.8	0	0
	BAMAKO	35	20	38	16	27	0.3	11	8
MAURIT	NOUAKCHOTT	33	22	40	17	27	1.6	0	-4
SENEGA	DAKAR	29	24	34	21	26	1.1	0	0
CHAGOS	DIEGO GARCIA	***	***	31	24	***	***	206	-5
LIBYA	TRIPOLI	26	13	35	7	19	2.0	0	-46
	BENGHAZI	25	17	30	13	21	2.7	21	-14
EGYPT	CAIRO	25	15	29	12	20	1.0	11	7
	ASWAN	29	15	33	12	22	0.6	0	0
KENYA	NAIROBI	25	15	28	13	20	1.1	174	53

COUNTR	CITY	TEMPERATURE (C) AVG MAX	AVG MIN	HI MAX	LO MIN	AVG	DPART F/NRM	PRECIPITATION (MM) TOTAL	DPART F/NRM
TANZAN	DAR ES SALAAM	31	23	33	20	27	0.8	91	-25
GABON	LIBREVILLE	29	24	30	22	27	0.7	433	-90
TOGO	LOME	32	25	34	23	29	1.3	46	23
BURKIN	OUAGADOUGOU	36	21	38	17	28	0.5	0	-2
COTE D	ABIDJAN	33	26	35	23	29	2.1	106	-36
MOZAMB	MAPUTO	27	***	36	19	***	***	66	-7
MALAWI	CHILEKA	***	***	31	19	***	***	144	59
ZIMBAB	HARARE	27	16	32	12	21	0.6	205	104
S AFRI	PRETORIA	27	16	32	9	21	0.5	142	41
	KROONSTAD	26	12	33	5	19	***	117	***
	JOHANNESBURG	23	11	27	5	17	-1.3	117	0
	BETHAL	23	11	28	7	17	-1.0	151	24
	DURBAN	26	18	31	14	22	0.6	184	76
	CAPE TOWN	25	14	39	10	19	1.4	7	-9
CANADA	TORONTO	7	0	20	-12	4	0.4	55	-15
	MONTREAL	6	-1	15	-14	2	0.8	92	-1
	WINNIPEG	-1	-9	11	-21	-5	-0.7	61	40
	REGINA	-4	-14	15	-25	-9	-4.0	21	9
	SASKATOON	-1	-11	16	-21	-6	-0.3	16	2
	LETHBRIDGE	3	-10	16	-21	-3	-2.3	17	0
	CALGARY	3	-10	15	-20	-3	-0.4	6	-6
	EDMONTON	2	-8	10	-16	-3	0.8	2	-15
	VANCOUVER	9	2	12	-4	6	-0.5	74	-96
MEXICO	GUADALAJARA	26	13	28	6	19	1.9	0	-13
MEXICO	MEXICO CITY	***	***	25	12	***	***	19	5
MEXICO	ACAPULCO	31	25	33	23	28	0.4	0	-44
BERMUD	ST. GEORGES	23	18	25	15	20	-1.2	119	0
BAHAMA	NASSAU	27	20	31	15	24	-0.3	28	-27
CUBA	HAVANA/MARTI	28	18	32	13	23	-1.1	0	-52
JAMAIC	KINGSTON	32	24	35	23	28	1.4	9	-72
P RICO	SAN JUAN	29	23	31	22	26	-0.3	49	-102
GUADEL	RAIZET	31	23	32	20	27	1.2	196	55
MARTIN	LAMENTIN	30	24	32	22	27	1.5	250	60
BARBAD	BRIDGETOWN	29	24	31	22	27	-0.1	344	212
TRINID	PORT OF SPAIN	31	24	34	22	27	1.2	317	119
COLOMB	BOGOTA	19	9	23	4	14	0.2	56	-32
F GUIA	CAYENNE	32	23	33	21	27	1.0	161	6
BRAZIL	FORTALEZA/PINT	31	26	32	25	28	0.5	9	-10
	RECIFE	30	23	31	20	26	-0.1	32	-13
	BELO HORIZONTE	26	18	30	16	22	-0.8	238	-4
	CAMPO GRANDE	32	22	35	15	27	1.7	138	-19
	FRANCA	27	18	30	15	23	3.7	174	-28
	RESENDE	28	19	33	17	24	1.5	213	46
	LONDRINA	29	19	33	15	24	1.5	166	15
	SANTA MARIA	27	16	36	7	21	-0.5	203	71
	PORTO ALEGRE	27	17	36	10	22	0.8	37	-38
PERU	LIMA	21	16	23	13	18	-1.0	4	4
BOLIVI	LA PAZ	19	1	32	-3	10	-0.3	45	-5
CHILE	SANTIAGO	26	9	31	4	17	0.5	3	-5
ARGENT	FORMOSA	29	19	36	9	24	-0.5	156	-28
	POSADAS	30	18	37	9	24	-0.1	206	53
	CERES	27	15	37	7	21	-1.4	382	283
	CORDOBA	25	14	33	6	20	-1.3	209	109
	RIO CUARTO	23	14	31	5	18	-1.3	117	-4
	ROSARIO	25	15	31	7	20	-0.5	260	163
	BUENOS AIRES	23	13	30	5	18	-0.8	109	11
	SANTA ROSA	25	10	33	-1	18	-1.5	94	-6
	TRES ARROYOS	23	10	32	3	16	-0.2	36	-40
SAMOA	PAGO PAGO	31	26	33	24	28	1.3	223	-52
TAHITI	PAPEETE	31	24	32	21	27	1.2	65	-96
NZEALA	AUCKLAND	17	12	21	8	15	***	42	***
	WELLINGTON	15	11	19	6	13	***	25	***
AUSTRA	DARWIN	33	27	35	24	30	0.4	101	-31
	GOONDIWINDI	27	18	35	13	23	-1.4	90	27
	BRISBANE	25	18	28	14	21	-1.2	83	-27
	PERTH	26	14	36	8	20	0.8	24	1
	CEDUNA	26	15	41	9	21	1.4	24	6
	ADELAIDE	26	17	38	11	21	3.1	12	-10
	MELBOURNE	22	14	36	6	18	1.6	28	-21
	WAGGA	26	15	35	7	20	1.9	51	11
	CANBERRA	22	12	32	4	17	1.3	139	73
INDONE	BANDUNG	27	21	31	17	24	1.5	148	-90
PHILIP	MANILA	***	***	33	24	***	***	***	***

Based on Preliminary Reports

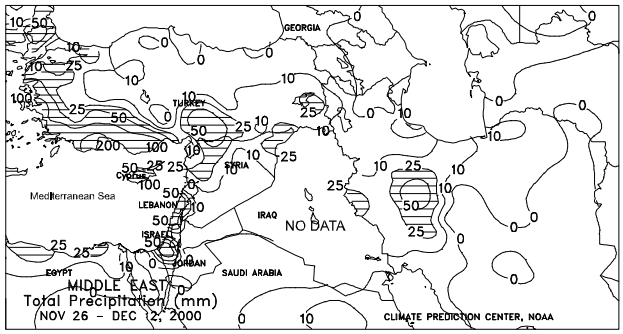
EUROPE

Scattered showers (10-50 mm or more) in England, France, the Benelux countries, Scandinavia, and the Iberian peninsula maintained moisture supplies for vegetative winter grains and oilseeds. In contrast, mostly dry weather in Italy helped dry saturated topsoils, and allowed winter grain planting to resume in the south. Late summer crop harvesting and winter grain planting likely remained difficult in the north, however, because of unusually wet autumn weather. Farther east, scattered showers (5-47 mm) helped vegetative winter wheat in Bulgaria and southern and eastern Romania. Elsewhere in central and eastern Europe, isolated showers (2-13 mm) caused only minor fieldwork delays. Continued significant precipitation is still needed in much of southeastern Europe to eliminate long-term drought. Unseasonably mild weather persisted throughout Europe, with the warmest weather confined to the west. Temperatures in western Europe averaged 4 to 7 degrees C above normal, spurring winter grain and oilseed development. Farther east, temperatures averaged 2 to 4 degrees C above normal, slowing cold hardening of winter crops.



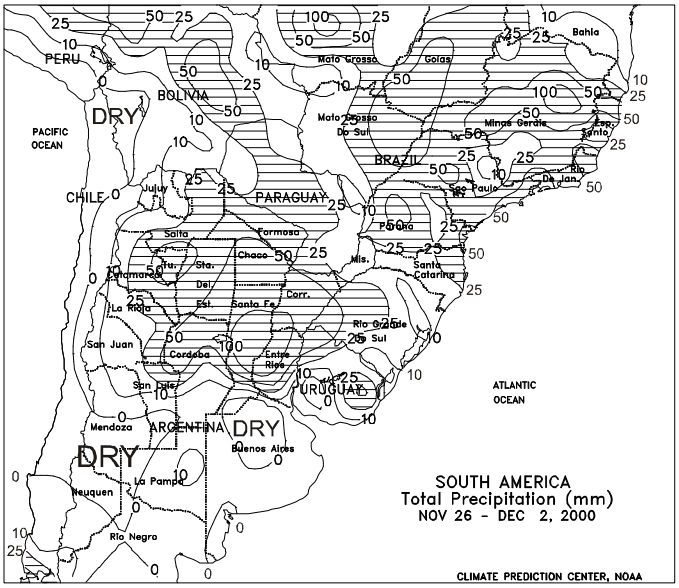
FSU-WESTERN

Early in the week, the first bitter cold outbreak of the season extended as far south as winter grain areas in extreme eastern Ukraine and the northern tip of North Caucasus, Russia. Minimum temperatures ranged from -20 to -15 degrees C, approaching the threshold for potential winterkill. However, during the middle of the week, the combination of an adequate snow cover and rapid moderation in temperatures minimized the potential for widespread damage. Colder weather (lowest temperatures ranging from -10 to -3 degrees C) also spread westward through southern and western Ukraine, Belarus, and the Baltics, inducing winter grains into dormancy. Moderate to heavy snow (10 -25 mm of liquid equivalent) accompanied the colder weather in central Ukraine, with locally heavy rain (25-50 mm or more) farther south in Moldova. Elsewhere, light snow (2-10 mm) increased the protective snow cover in northern and central Russia. During the latter half of the week, a significant warming trend overspread the region, improving overwintering conditions for winter grains, but melting protective snow cover in Ukraine and southern Russia. Weekly temperatures averaged 2 to 4 degrees C below normal in Russia and eastern Ukraine, and 1 to 3 degrees C above normal in extreme western Ukraine, Belarus, and the Baltics.



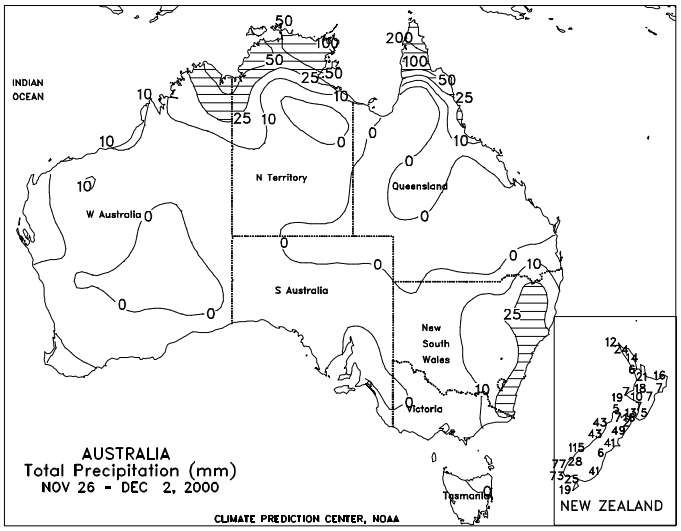
MIDDLE EAST

A winter storm system brought locally heavy rain to the eastern Mediterranean, increasing reservoir levels but causing localized flooding. In Turkey, the heaviest rain (50-100 mm or more) was concentrated in the western and southern cotton and winter wheat regions, with lighter showers (1-15 mm) over the Anatolian Plateau. Temperatures averaging 2 to 4 degrees C above normal in Anatolia prevented wheat from entering dormancy. Farther south, heavy showers (50 mm or more) were recorded in Lebanon and Israel, while moderate rain (10-25 mm or more) overspread Syria, northern Iraq (as depicted by satellite imagery), and western Iran. The moisture was favorable for winter crop establishment and helped to increase long-term moisture reserves, especially in eastern Syria and neighboring sections of Iraq that had been trending drier than normal.



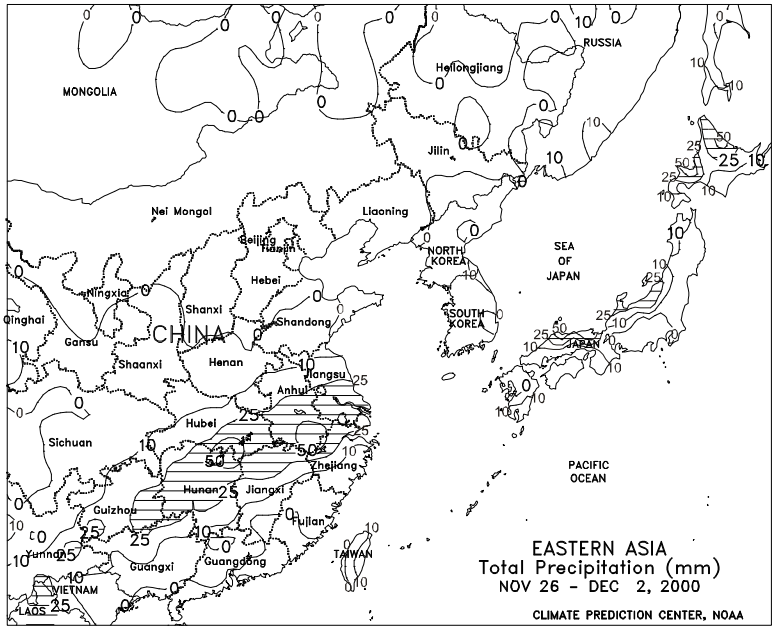
SOUTH AMERICA

In central Argentina, dry weather from extreme southern Cordoba and Santa Fe southward into Buenos Aires favored summer crop planting and filling to maturing winter wheat. In southern Buenos Aires, however, topsoil moisture was becoming limited and rain is needed. In central Santa Fe, isolated torrential showers (175-200 mm) caused local wheat damage and flooding. In the northern cotton areas, moderate to heavy showers (25-80 mm) boosted moisture supplies, but slowed planting. According to the Argentine Agricultural Secretariat as of December 1, nationwide corn was 79 percent planted, the same as last year, sunflowers were 85 percent planted, compared with 94 percent last year, and soybeans were 51 percent planted, the same as last year, and sorghum was 56 percent planted, compared with 76 percent last year. In the provinces of Santa Fe, Buenos Aires, Cordoba, and La Pampa, corn was 82, 95, 81, and 82 percent planted, respectively. In Buenos Aires, Cordoba, and Santa Fe soybeans were 39, 66, and 58 percent planted, respectively. In the Buenos Aires province, sorghum was only 19 percent planted, compared with 95 percent last year. Nationwide, rice and cotton was 77 and 69 percent planted, respectively. Winter wheat harvesting continued across Cordoba and Santa Fe. Across the major Brazilian soybean-producing regions, widespread showers (20-60 mm) continued to provide adequate to abundant moisture for germinating soybeans. In western Minas Gerais, seasonably wet weather (40-80 mm) continued to aggravate flooding from previous heavy showers. Across most of southern Brazil, temperatures averaged 1 to 2 degrees C above normal and near to slightly below normal in Rio Grande do Sul. According to Safras, as of December 1, soybeans were 84 percent planted nationwide, compared with the 5-year average of 76 percent.



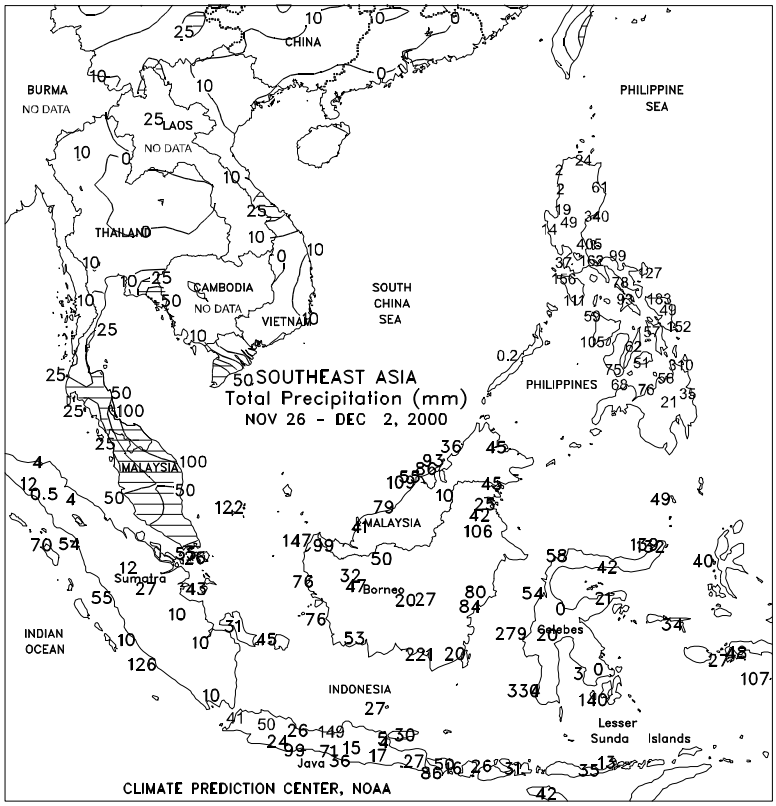
AUSTRALIA

Light to moderate rain (5-25 mm or more) lingered over central sections of New South Wales, hampering local flood recovery and keeping unharvested winter crops unfavorably wet. Elsewhere in the east, however, favorably dry weather brought relief from the recent inundating rains. In Queensland and northern New South Wales, the sunnier skies aided cotton, sorghum, and sugarcane growth and development. Above-normal temperatures (departures of 2-6 degrees C, with highs from the middle 30's to lower 40's degrees C) aided the overall drying process, boosted summer crop growth rates, and helped final winter grain and oilseed harvests in the southeast (South Australia, Victoria, and New South Wales). Scattered, light showers (5 mm or less) in Western Australia caused little disruption, if any, to final winter harvests. In New Zealand, moderate showers (25-50 mm) benefited small grains and pastures across South Island, while somewhat lighter rain (25 mm or less) fell in North Island.



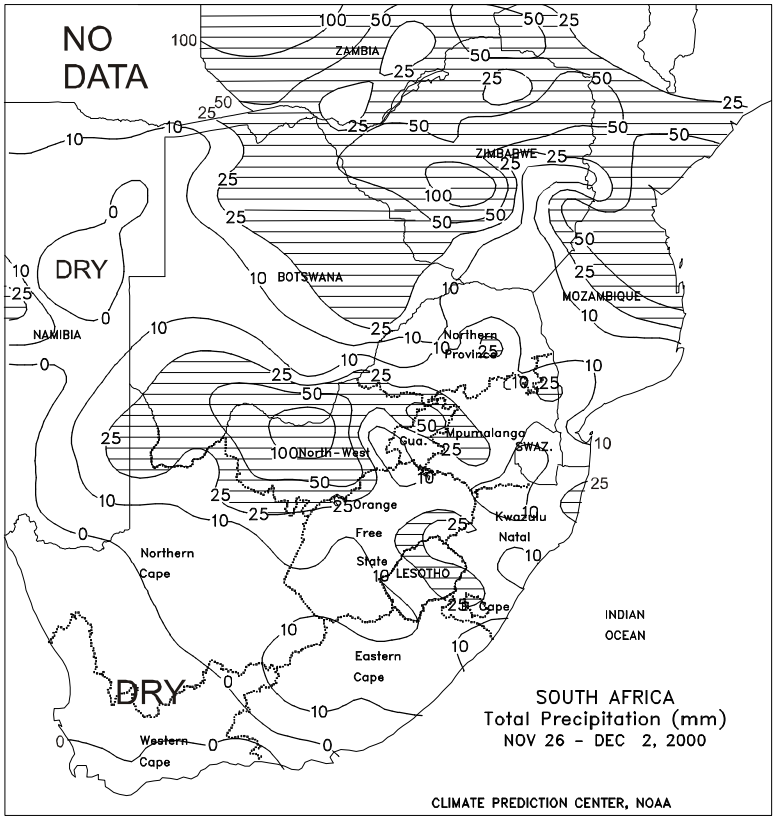
EASTERN ASIA

Across the northern North China Plain, winter wheat continued to enter dormancy. Further south, seasonably cold weather continued to harden winter wheat. Dry weather prevailed across most of the North China Plain. Light to moderate rain (10-50 mm) from southwest China (Guizhou) northeastward to Jiangsu increased moisture supplies for winter crops. Dry weather was reported across Guangdong and Fujian, aiding rice fieldwork.



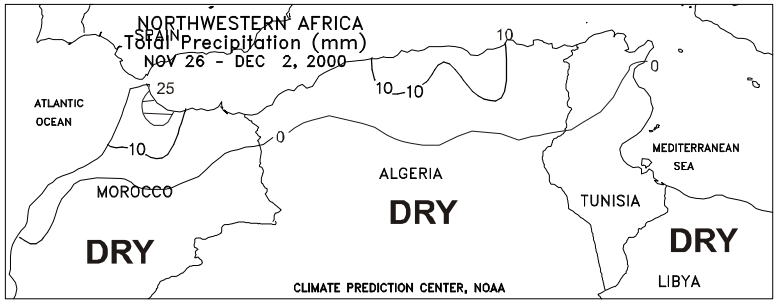
SOUTHEAST ASIA

Tropical Storm Rumbia made landfall in the central Philippines on November 30 with winds of 50 kts (56 mph). Heavy showers (50-250 mm) associated with Rumbia caused some flooding and slowed fieldwork for rice and plantation crops in eastern and southern Luzon, Philippines. In Java, Indonesia, showers (10-50 mm) maintained favorable moisture supplies for vegetative main season rice. Across Sumatra, Indonesia and peninsular Malaysia, showers (25-50 mm) maintained moisture supplies for oil palm. Seasonably dry weather favored rice harvesting across Thailand and Vietnam.



SOUTH AFRICA

Widespread rain (10-25 mm, locally exceeding 50 mm) maintained favorable prospects for emerging and vegetative summer crops across the corn belt. Seasonable temperatures (highs from the middle 20's to lower 30's degrees C) aided early crop development. November is the optimal planting period, but fieldwork can extend into early January, although later planted crops face a greater risk of summer heat stress. Along the coast, rainfall tapered off considerably from last week's inundating totals, with just a few locations in KwaZulu-Natal's previously flooded sugarcane area reporting amounts greater than 25 mm. Seasonable warmth (highs in the middle to upper 30's degrees C) raised irrigation requirements in the vineyards and orchards of Western Cape.



NORTHWESTERN AFRICA

Light showers (10-25 mm) dampened topsoils in northern Morocco, while southern Morocco remained dry. Soil moisture remained favorable in northern Morocco, although rainfall has trended below normal in southern Morocco since mid-November. In Algeria, scattered, light showers (1-25 mm) provided limited additional soil moisture for emerging winter grains. Topsoil moisture in Algeria remained favorable as rainfall has been generally consistent. Dry weather reduced topsoil moisture in Tunisia, where rainfall has been generally below normal since mid-November. Temperatures averaged 3 to 5 degrees C above normal throughout the region, adding to evaporation of topsoil moisture.

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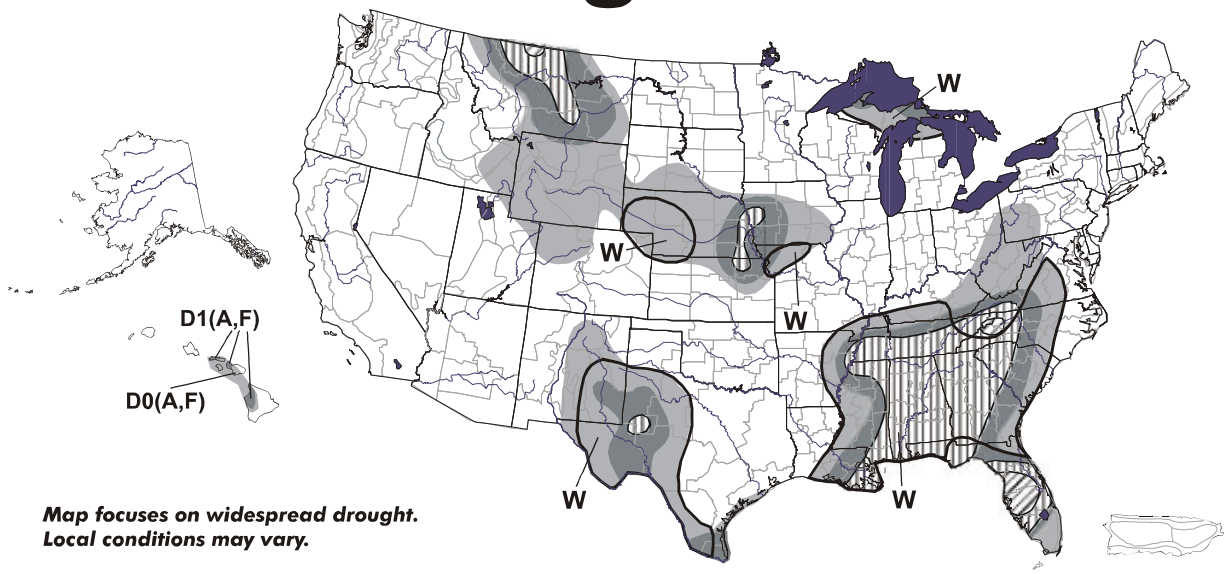
November 28, 2000 Valid 7 a.m. EST

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

• ***Released Thursday, Nov. 30, 2000*** •

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