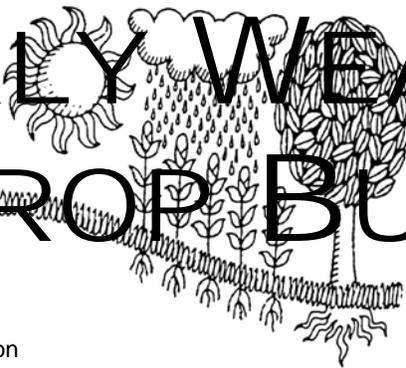
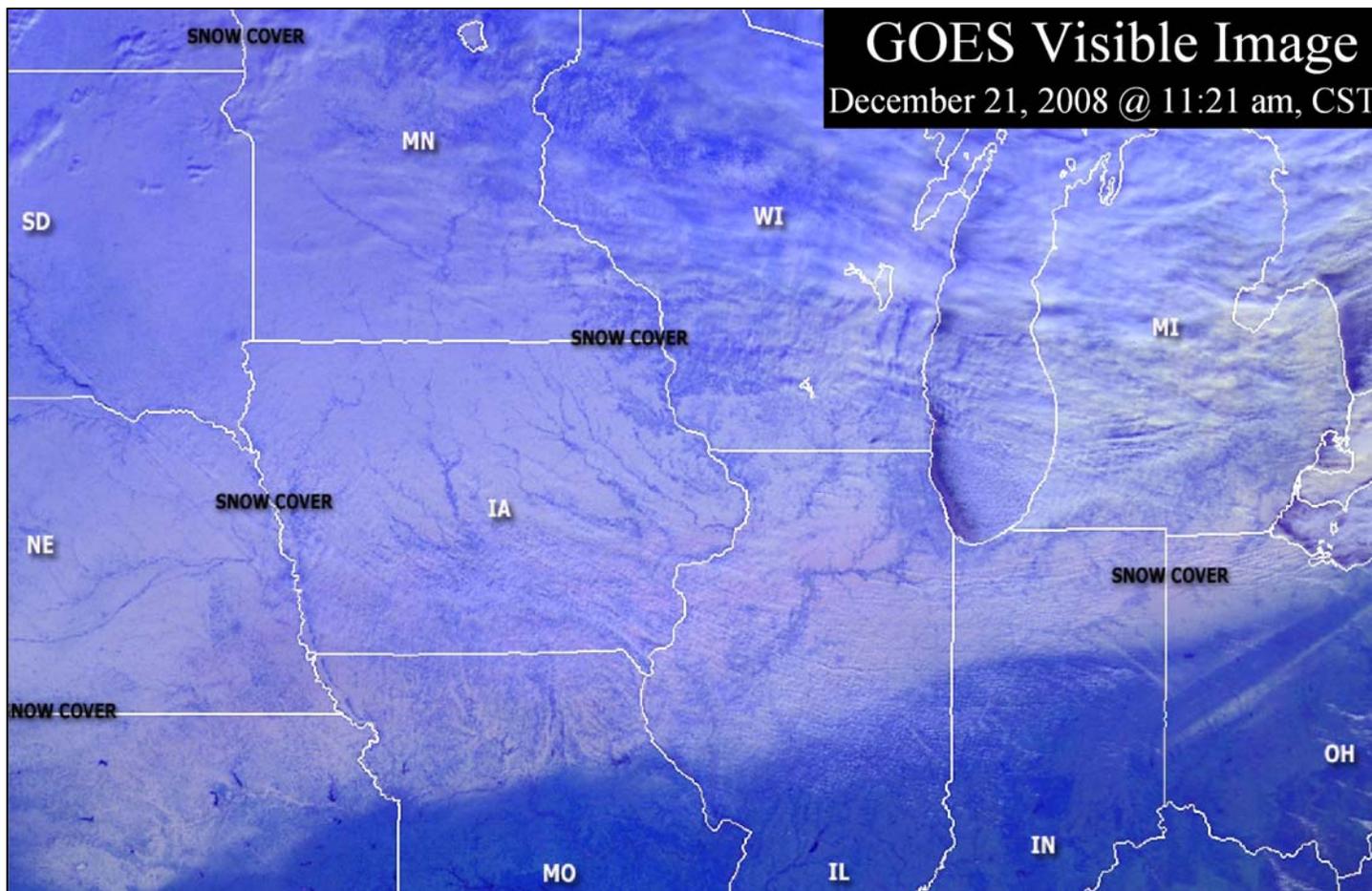


WEEKLY WEATHER AND CROP BULLETIN



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 December 14-20, 2008

Highlights provided by USDA/WAOB

Bitterly cold weather gripped the **northern and central Plains**, the **upper Midwest**, and much of the **West**, maintaining difficult conditions for livestock. Weekly temperatures averaged at least 20 to 30°F below normal in **Montana**, **northern Wyoming**, and the **western Dakotas**, and scattered readings below -30°F were noted across the **northern Plains** from December 15-17. Temperatures failed to climb above 10°F for the entire week in parts of **North Dakota** and **eastern Montana**.

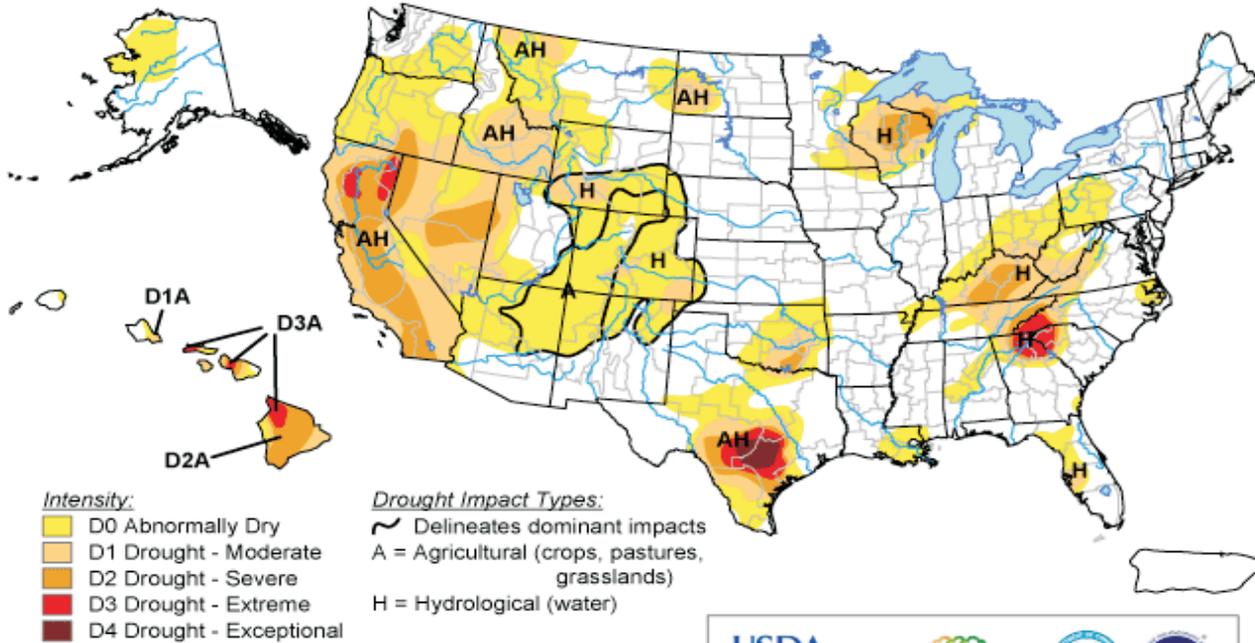
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(Continued on page 3)

U.S. Drought Monitor

December 16, 2008
Valid 8 a.m. EST



The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.



Released Thursday, December 18, 2008

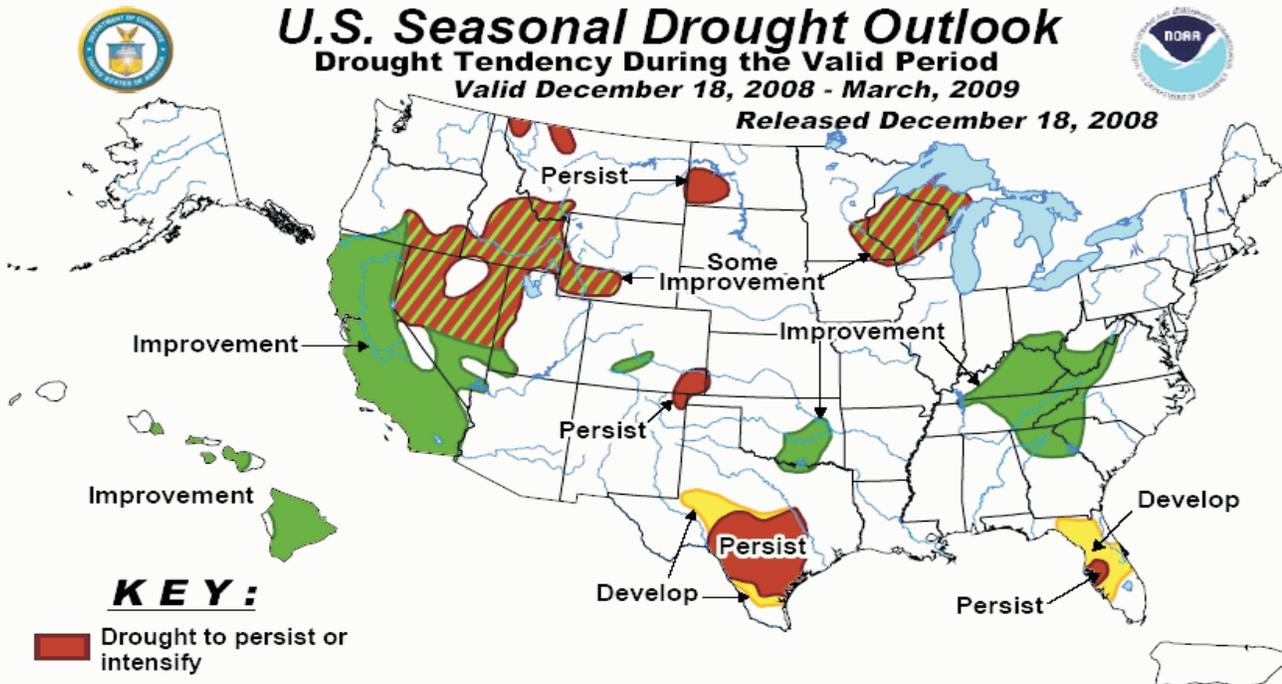
Authors: Jay Lawrimore/Liz Love-Brotak, NOAA/NESDIS/NCDC

<http://drought.unl.edu/dm>

U.S. Seasonal Drought Outlook

Drought Tendency During the Valid Period
Valid December 18, 2008 - March, 2009

Released December 18, 2008



KEY:

- Drought to persist or intensify
- Drought ongoing, some improvement
- Drought likely to improve, impacts ease
- Drought development likely

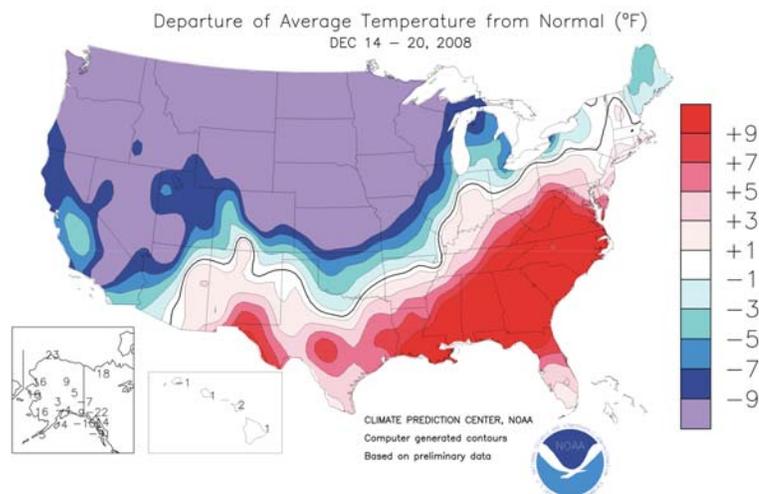
Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Short-term events -- such as individual storms -- cannot be accurately forecast more than a few days in advance. Use caution for applications -- such as crops -- that can be affected by such events. "Ongoing" drought areas are approximated from the Drought Monitor (D1 to D4 intensity). For weekly drought updates, see the latest U.S. Drought Monitor. NOTE: the green improvement areas imply at least a 1-category improvement in the Drought Monitor intensity levels, but do not necessarily imply drought elimination.

(Continued from front cover)

However, a substantial snow cover insulated winter wheat across the **northern Plains** and the **interior Northwest**. Farther south, a patchy, shallow snow cover increased concerns about the potential for winter kill in wheat areas of the **central High Plains**, where early-week temperatures fell into the range of -20 to 0°F. Meanwhile, stormy weather engulfed the **West**, especially from southern **California to the Four Corners region**. Following a dismal start to the 2008-09 winter wet season, snow was especially beneficial in the **Southwestern** mountains. On December 17, snow fell on the valley floor as far south as **Las Vegas, NV**. On the **Plains**, however, precipitation was mostly light and confined to northern and eastern portions of the region. Nevertheless, snow depths of at least a half-foot were common across the **northern Plains** due to early- to mid-December storminess. Farther east, frozen precipitation and very cold conditions stressed livestock and caused travel disruptions across much of the **Midwest**. Late-week **Midwestern** snow depths of 12 to 18 inches were common, especially from **eastern portions of the Dakotas and Nebraska to Michigan**. Elsewhere, abundant precipitation fell in the **South and East**, except for warm, mostly dry conditions across the **lower Southeast**. Precipitation, which totaled 2 inches or more in parts of the **central and southern Appalachians** and neighboring areas, included some snow, sleet, and freezing rain in the **Northeast**.

Early in the week, a strong cold front swept across the **Plains** and the **Midwest**. **Childress, TX** (76°F), and **Tulsa, OK** (75°F), posted daily-record highs during the afternoon of December 15, then experienced 56-degree temperature plunges by midnight (to 20 and 19°F, respectively). Farther north, a blizzard continued to rage across the **northern Plains** and the **upper Midwest**. On December 13-14, **Bismarck, ND**, noted consecutive daily-record snowfall totals of 5.9 and 6.6 inches, respectively. **Watertown, SD**, collected a daily-record snowfall (6.0 inches) on December 14, which was also its first of 9 consecutive days with a low temperature below 0°F. In **Montana**, daily-record lows for December 14 included -33°F in **Havre** and -25°F in **Great Falls**. Chilly weather also affected **California's Central Valley**, where lows of 26°F in **Hanford** and 27°F in **Merced** were both records for December 14. The following day, lows of -30°F in **Havre, MT**; -20°F in **Buffalo, WY**; and -19°F in **Denver, CO**, were among dozen of daily records for December 15. Later in the day, high temperatures for December 15 struggled to reach -16°F in both **Williston, ND**, and **Glasgow, MT**. Even colder air gripped parts of Montana on December 16, when lows plunged to -39°F in **Simpson** and -35°F in both **Harlem** and **Chinook**.

Elsewhere, storminess took aim on the **South, West, and Midwest**. Daily-record highs for December 15 in advance of the **Eastern** storminess included 79°F in **Augusta, GA**; 73°F in **Richmond, VA**; and 67°F in **New York's Central Park** and **Newark, NJ**. The following day, however, **Newark** (1.6 inches) collected a daily-record snowfall for December 16. Farther west, daily snowfall records for December 16 were also established in locations such as **Chicago, IL** (4.8 inches); **Concordia, KS** (4.6 inches); and **Madison, WI** (4.4 inches). In **Oregon**, 11.1 inches of snow blanketed **Pendleton** from December 13-15, including a daily-record total (4.6 inches) on the 15th. In the **Southwest**, separate rounds of heavy precipitation arrived on December 15 and 17. In **southern California**, **Los Angeles (LAX)** netted a daily-record rainfall of 1.89 inches on December 15, followed by a daily-record amount of 1.57 inches in **Palm Springs** on December 17. Elsewhere in **southern California**, winds during the second storm (on December 17) were clocked to 84 m.p.h. on **Wiley Ridge**, while the snow depth at **Big Bear Lake** climbed to 54 inches.

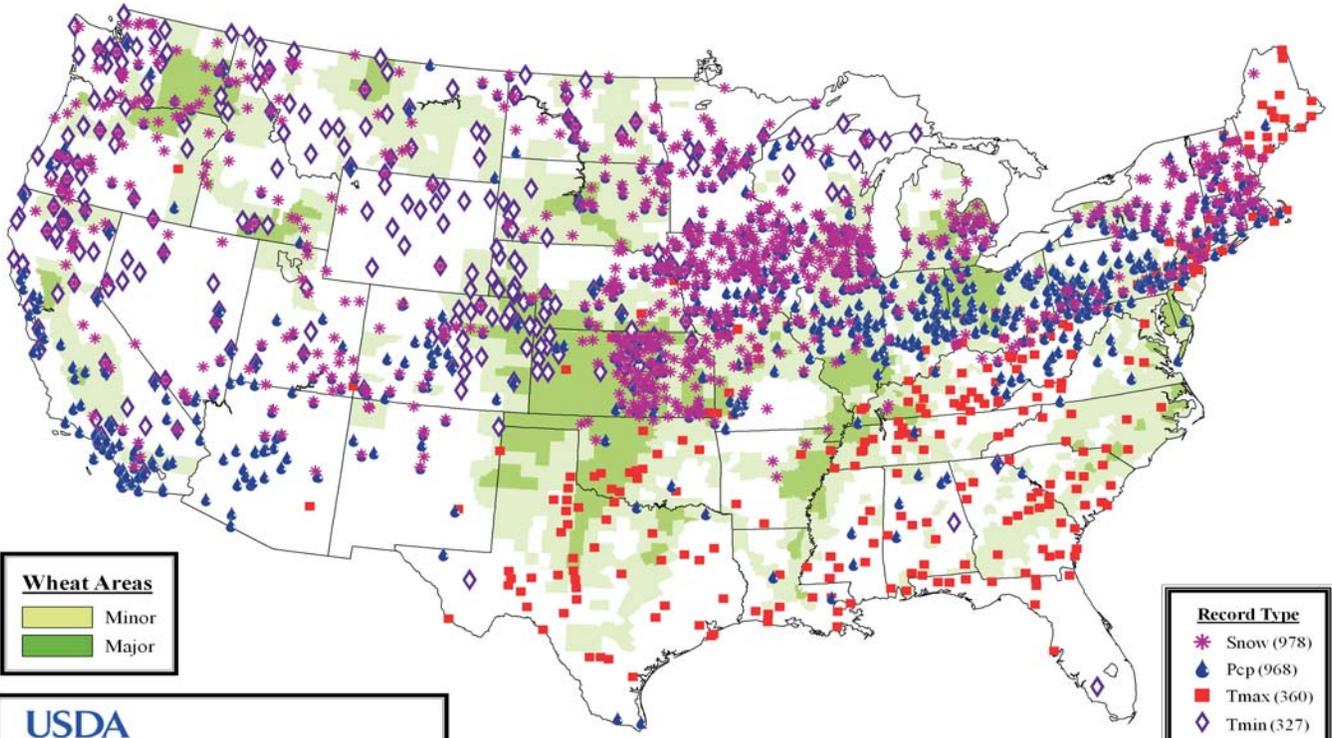


Big Bear Lake's greatest snow depth on record was 58 inches on February 3, 1979. On December 17, snow also blanketed **Las Vegas, NV**, where the 3.6-inch total set records for the snowiest December (2.0 inches in 1967) and snowiest December day (2.0 inches on December 15, 1967). By December 18, cold air in the **Western** storm's wake resulted in daily-record lows in **California** locations such as **Palmdale** (18°F) and **Redding** (23°F).

Meanwhile, record-setting snow also buried the **interior Northwest**. On December 17-18, 24-hour snowfall records were broken in locations such as **Coeur d'Alene, ID** (25.0 inches), and **Spokane, WA** (19.4 inches). Previous records were 16.0 inches (on February 26, 1955) in **Coeur d'Alene** and 13.0 inches (on January 6-7, 1950) in **Spokane**. By December 20, daily-record lows in **Washington** included -23°F in **La Crosse**, -21°F in **Winthrop**, and -18°F in **Spokane**. Farther east, late-week highlights included rapid warming in the **Southeast** and yet another round of wintry weather from the **Midwest into the Northeast**. On December 19, daily-record highs soared to 82°F in **Baton Rouge, LA**, and 79°F in **Hattiesburg, MS**. Farther north, however, daily snowfall records for the 19th included 15.5 inches in **Marquette, MI**; 11.6 inches in **Worcester, MA**; and 11.4 inches in **Milwaukee, WI**. Through week's end, season-to-date snowfall totals of 29.4 inches in **Rochester, MN**, and 29.2 inches in **La Crosse, WI**, were the highest since July 1 - December 20 values in those locations since 1991. Elsewhere in **Wisconsin**, **Appleton's** month-to-date snowfall of 30.8 inches established a December record, previously set with 28.1 inches in 1968. Farther south, **Huntsville, AL**, netted a daily-record rainfall (2.18 inches) on December 20, boosting its month-to-date precipitation to 10.78 inches. The last time **Huntsville** received more than 10 inches of rain in a calendar month was May 2003, when 10.43 inches fell.

Unusually mild air overspread **northern and western Alaska**, where weekly temperatures averaged at least 15°F above normal, but bitterly cold weather prevailed across the southeastern part of the state. On the **Arctic Coast**, **Barrow** posted three consecutive daily-record highs (29, 30, and 26°F) from December 13-15. **Alaskan** precipitation was mostly light, although **Kodiak** netted a daily-record rainfall of 1.44 inches on December 19 en route to a weekly sum of 2.69 inches. Farther south, locally heavy, early-week showers in **Hawaii** further eased drought, especially across the western islands. Through December 20, month-to-date rainfall totals reached 15.51 inches (502 percent of normal) in **Lihue, Kauai**, and 7.20 inches (398 percent) in **Honolulu, Oahu**. More than half (7.20 of 14.38 inches) of **Honolulu's** year-to-date precipitation fell during the first 20 days of December.

Daily Weather Records (ASOS & COOP) December 14-20, 2008



Wheat Areas

- Minor
- Major

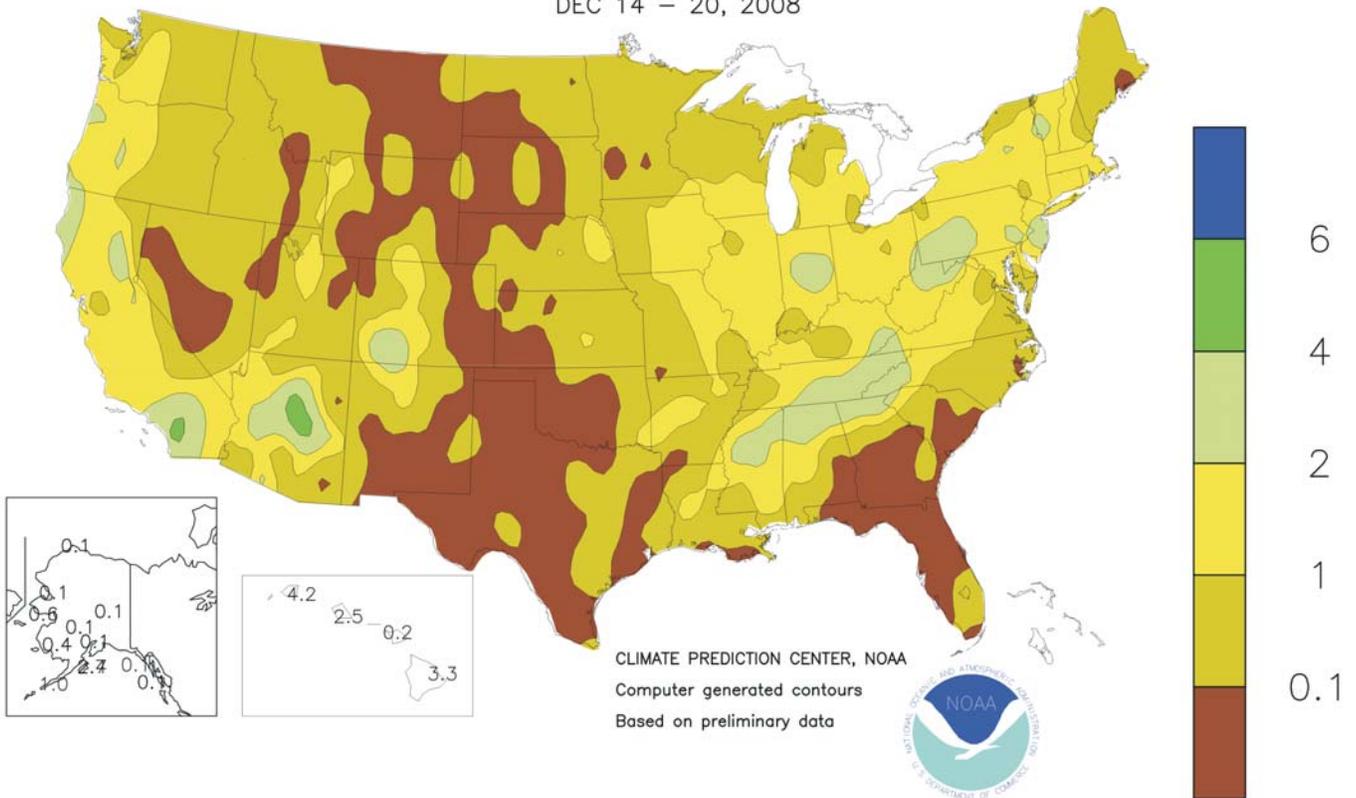
Record Type

- Snow (978)
- Pcp (968)
- Tmax (360)
- Tmin (327)

Joint Agricultural Weather Facility
World Agricultural Outlook Board

Data courtesy of the U.S. National Climatic Data Center (NCDC)

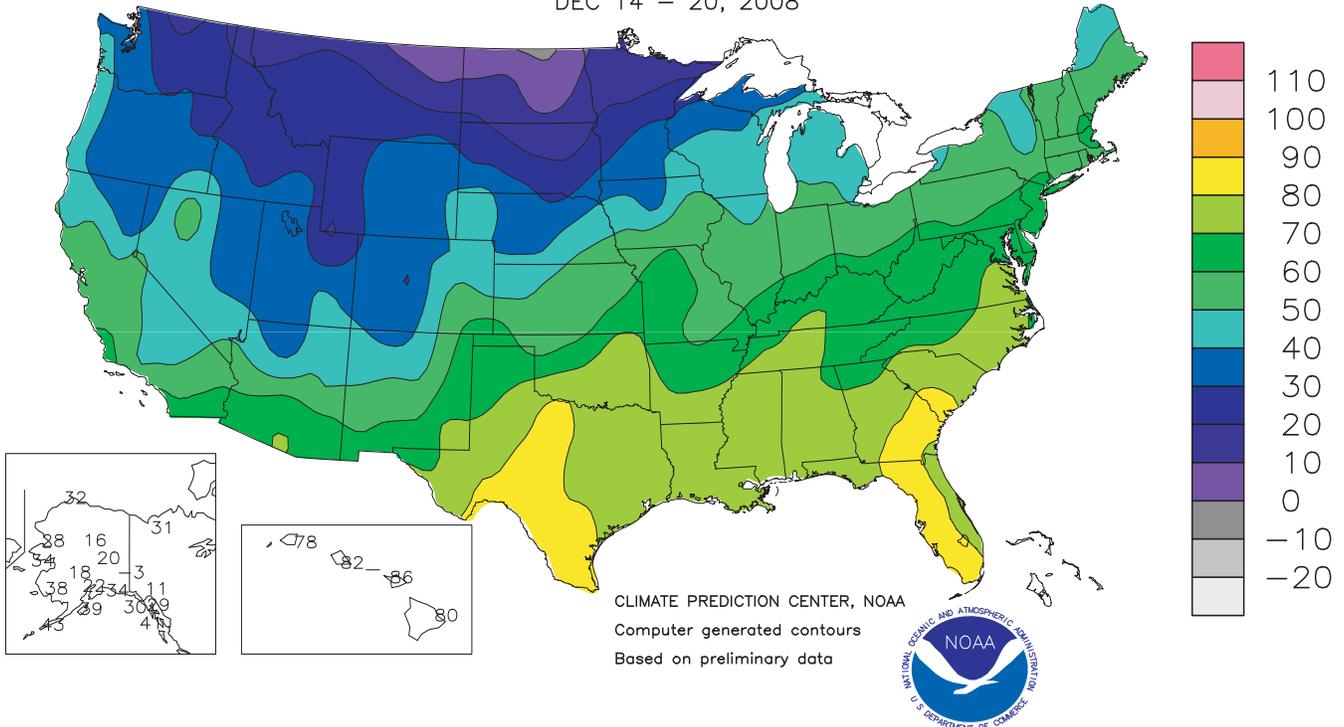
Total Precipitation (Inches) DEC 14 - 20, 2008



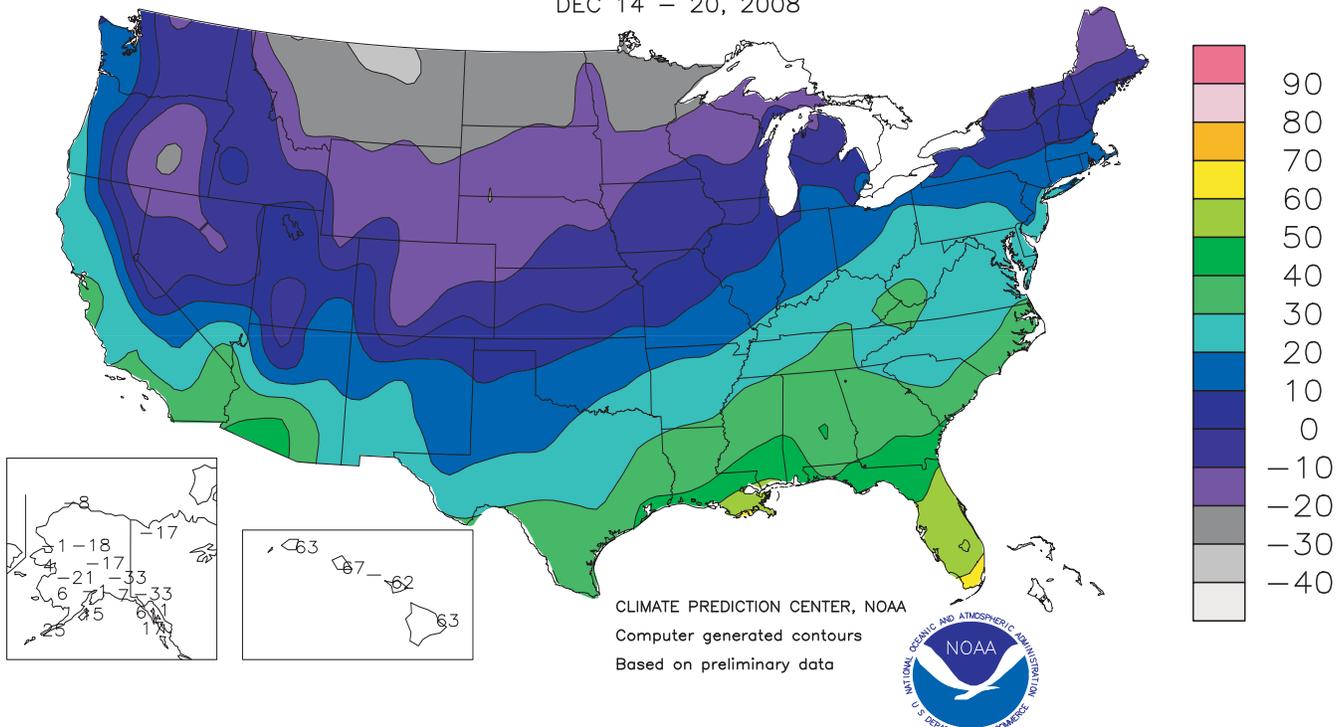
CLIMATE PREDICTION CENTER, NOAA
Computer generated contours
Based on preliminary data



Extreme Maximum Temperature (°F) DEC 14 – 20, 2008



Extreme Minimum Temperature (°F) DEC 14 – 20, 2008



Agricultural Weather Data Compiled by USDA's Stoneville Field Office

Weather Data for the Week Ending December 20, 2008

Data Provided by the Mississippi State Delta Research and Extension Center (DREC) and the University of Missouri Commercial Agriculture Program.

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION								4-INCH SOIL TEMP. °F		NUMBER OF DAYS			
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL IN, SINCE DEC01	PCT. NORMAL SINCE DEC01	TOTAL, IN., SINCE JAN01	PCT. NORMAL SINCE JAN01	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMP. °F		PRECIP.		
																90 AND ABOVE	32 AND BELOW	0.1 INCH OR MORE	5.0 INCH OR MORE	
MISSISSIPPI																				
ND TUNICA 1W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
LYON	58	39	69	29	48	-	0.28	-	0.19	4.04	-	-	-	50	45	0	2	4	0	
VANCE	57	40	68	29	48	-	1.21	-	0.66	5.40	-	-	-	50	41	0	2	5	1	
PERTSHIRE	57	39	70	28	48	-	0.58	-	0.34	5.02	-	-	-	51	43	0	2	4	0	
SCOTT	59	41	73	29	50	-	1.06	-	0.59	5.54	-	-	-	51	44	0	2	5	1	
SANDY RIDGE	58	41	72	30	50	-	2.11	-	0.86	6.50	-	-	-	53	-	0	2	5	2	
NE VERONA	59	42	71	32	51	-	1.81	-	0.75	7.73	-	44.98	-	53	46	0	1	5	1	
SD STONEVILLE x	54	42	69	31	48	4	1.34	0.14	0.84	6.05	170	56.53	109	52	45	0	2	5	1	
INDIANOLA 1S*	59	43	72	31	51	-	1.62	-	0.70	7.38	-	47.72	-	55	47	0	2	5	1	
INVERNESS 5E	60	43	72	32	51	-	0.92	-	0.43	6.23	-	45.90	-	54	48	0	2	5	0	
SIDON	61	44	74	33	53	-	1.22	-	0.49	6.67	-	-	-	56	50	0	0	5	0	
NORTH ISSAQUENA	60	44	73	31	52	-	0.81	-	0.55	5.71	-	-	-	54	49	0	2	5	1	
SILVER CITY	61	44	74	33	53	-	0.96	-	0.63	8.65	-	57.42	-	53	47	0	0	5	1	
ONWARD	62	45	73	32	53	-	0.69	-	0.48	9.21	-	-	-	55	49	0	2	5	0	
MAYDAY	62	46	74	34	54	-	0.99	-	0.52	7.49	-	-	-	54	50	0	0	5	1	
MISSOURI																				
NW CORNING	26	5	55	-2	15	-12	0.00	-0.30	0.00	0.08	9	30.09	87	-	-	0	7	0	0	
ALBANY	27	5	59	-3	16	-12	0.06	-0.24	0.06	0.13	13	38.04	108	34	32	0	7	1	0	
ST. JOSEPH	27	6	58	0	16	-13	0.17	-0.23	0.17	0.20	17	38.89	108	-	-	0	7	1	0	
NC LINNEUS	29	7	58	0	19	-9	0.40	0.18	0.17	0.77	69	57.25	157	35	33	0	7	3	0	
BRUNSWICK	29	8	58	2	20	-9	0.16	-0.21	0.12	0.82	64	46.40	123	35	33	0	7	3	0	
NE NOVELTY	29	7	62	0	19	-10	0.53	0.16	0.25	1.07	72	55.36	156	36	34	0	7	3	0	
MONROE CITY	31	10	61	4	22	-8	0.40	-0.07	0.15	1.21	74	52.75	146	35	33	0	7	4	0	
WC GREEN RIDGE	35	13	64	6	24	-8	0.41	-0.02	0.36	1.07	71	49.93	123	35	33	0	7	3	0	
C AUXVASSE	32	13	61	6	24	-6	0.79	0.27	0.55	1.47	86	59.99	157	37	35	0	7	3	1	
COL-SANBORN FLD	33	14	62	7	25	-7	0.59	0.11	0.41	1.03	66	55.80	140	35	33	0	7	3	0	
WILLIAMSBURG	33	15	59	8	25	-6	0.78	0.12	0.40	1.22	64	52.17	117	32	30	0	7	3	0	
COL-JEFFERS F&G	33	13	62	6	24	-8	0.56	0.06	0.30	1.08	69	-	-	36	34	0	7	3	0	
COL SOUTH FARMS	33	14	61	6	25	-7	0.77	0.27	0.47	1.35	86	55.98	141	-	-	0	7	3	0	
VERSAILLES	36	15	65	7	26	-8	0.48	0.01	0.40	1.18	76	52.67	129	37	34	0	7	3	0	
EC VANDALIA	32	14	60	7	24	-6	0.80	0.33	0.47	1.11	67	-	-	35	32	0	7	4	0	
SW LAMAR	42	18	68	10	29	-6	0.32	-0.32	0.32	0.84	45	58.33	126	41	37	0	7	1	0	
SC COOK STATION	40	20	60	11	30	-5	0.33	-0.38	0.20	0.80	37	50.62	120	40	38	0	7	3	0	
MOUNTAIN GROVE	38	20	56	12	30	-4	0.33	-0.41	0.27	1.21	47	51.83	110	39	36	0	7	3	0	
SE DELTA	44	28	60	19	34	-2	0.64	-0.19	0.40	1.99	78	55.95	128	40	35	0	5	3	0	
CHARLESTON	47	30	63	21	37	1	0.93	0.07	0.54	2.95	103	40.95	92	40	34	0	5	3	1	
GLENNONVILLE	47	30	63	21	37	-2	0.94	0.13	0.55	2.42	101	39.27	96	41	35	0	5	4	1	
CLARKTON	46	29	62	21	36	-3	1.24	0.38	0.66	3.82	154	38.72	92	41	34	0	5	4	1	
PORTAGEVILLE DC	48	31	64	22	38	0	0.91	-0.05	0.43	3.16	112	41.84	94	44	37	0	5	4	0	
PORTAGEVILLE LF	48	31	64	22	38	0	0.81	-0.17	0.41	3.13	110	41.98	94	43	37	0	5	4	0	
STEELE	48	32	64	23	39	0	0.76	-0.41	0.39	3.67	109	41.46	88	43	36	0	4	4	0	
CARDWELL	47	30	64	21	38	-1	0.86	-0.05	0.37	2.89	102	40.06	88	44	37	0	5	4	0	

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

Data are preliminary and subject to revision.

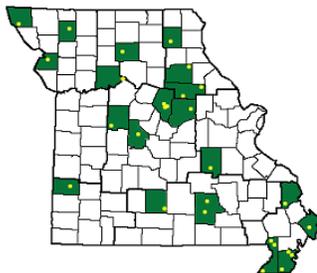
Mississippi: ND = Northern Delta; NE = Northeastern Mississippi; EC = East Central Mississippi; SD = Southern Delta.

Missouri: NW = North West; NC = North Central; NE = Northeast; WC = West Central; C = Central; EC = East Central; SW = Southwest; SE = Southeast;

SC = South Central. (Col-Columbia, Col-Jeffers F&G=Columbia Jefferson Farm and Gardens)

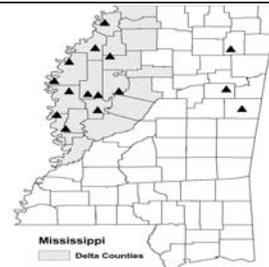
Weather and Crop Summary for the Mississippi Delta: Rainfall occurred on 4 to 5 days in the Delta, but most precipitation episodes featured light accumulations. However, there was some early-week icing in the northern Delta, enough for a glaze and treacherous travel conditions due to sub-freezing temperatures. Warming occurred by late in the week, but conditions remained mostly cloudy due to the proximity of a stalled frontal boundary.

Missouri Weather Stations



Note: For information on the weather stations in Missouri, please visit: <http://aqebb.missouri.edu/weather/stations/index.htm>

Mississippi Weather Stations



Note: For information on the weather stations in Mississippi, please visit: http://www.deltaweather.msstate.edu/maps/weather_station_map.htm

National Weather Data for Selected Cities

Weather Data for the Week Ending December 20, 2008

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

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY PERCENT		NUMBER OF DAYS			
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL IN, SINCE DEC01	PCT. NORMAL SINCE DEC01	TOTAL, IN, SINCE JAN01	PCT. NORMAL SINCE JAN01	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMP. °F			
																90 AND ABOVE	82 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	67	53	72	39	60	15	0.98	0.04	0.51	5.51	197	59.94	115	90	72	0	0	5	1
HUNTSVILLE	60	45	68	37	53	10	3.37	2.14	2.18	10.78	299	50.30	91	91	85	0	0	6	1
MOBILE	73	61	78	47	67	15	0.53	-0.44	0.26	3.10	102	73.05	113	92	75	0	0	3	0
MONTGOMERY	73	55	79	32	64	15	0.93	-0.16	0.93	4.00	121	55.19	104	90	66	0	1	1	1
AK ANCHORAGE	19	8	22	-1	14	-4	0.06	-0.18	0.06	0.43	64	15.50	99	83	78	0	7	1	0
BARROW	21	4	32	-8	12	23	0.10	0.10	0.08	0.12	1200	5.04	125	94	79	0	7	2	0
FAIRBANKS	10	-12	20	-17	-1	5	0.11	-0.06	0.11	0.45	102	14.13	141	80	76	0	7	1	0
JUNEAU	21	9	29	1	15	-14	0.01	-1.22	0.01	3.15	92	72.95	129	85	60	0	7	1	0
KODIAK	38	32	39	15	35	4	2.36	0.65	1.12	7.31	156	86.39	119	89	82	0	2	6	2
NOME	30	19	34	4	25	17	0.63	0.41	0.33	0.87	132	10.83	67	90	79	0	7	5	0
AZ FLAGSTAFF	34	19	39	8	27	-3	2.42	2.03	0.89	2.49	222	17.29	78	97	64	0	7	5	2
PHOENIX	60	46	68	40	53	-1	0.25	0.06	0.19	0.25	48	8.88	113	78	54	0	0	3	0
PRESCOTT	44	27	49	19	35	-2	1.40	1.12	0.47	1.45	184	13.88	74	94	49	0	6	5	0
TUCSON	62	42	70	35	52	0	0.10	-0.13	0.04	0.12	21	7.80	67	79	51	0	0	5	0
AR FORT SMITH	47	30	72	24	39	-2	0.27	-0.46	0.16	1.01	41	57.21	133	87	64	0	5	5	0
LITTLE ROCK	53	36	71	26	44	1	0.67	-0.37	0.58	2.23	68	56.53	114	97	71	0	3	3	1
CA BAKERSFIELD	51	38	56	33	45	-2	0.42	0.27	0.34	0.52	127	3.38	55	86	69	0	0	3	0
FRESNO	51	34	56	31	43	-2	0.62	0.34	0.52	0.66	89	8.88	84	88	75	0	3	2	1
LOS ANGELES	56	44	60	41	50	-7	2.16	1.78	1.89	2.17	217	11.01	89	80	59	0	0	2	1
REDDING	46	29	50	23	37	-8	1.03	0.03	0.56	1.03	37	19.69	62	90	74	0	7	4	1
SACRAMENTO	49	34	52	28	41	-4	0.51	0.00	0.30	0.53	37	12.58	74	90	60	0	3	4	0
SAN DIEGO	58	49	60	44	54	-3	2.71	2.45	1.63	2.72	394	10.93	108	79	64	0	0	3	2
SAN FRANCISCO	51	39	54	34	45	-4	1.33	0.72	0.87	1.33	79	14.98	79	84	70	0	0	5	1
STOCKTON	49	33	51	28	41	-4	0.41	0.04	0.20	0.42	39	8.92	68	91	76	0	4	4	0
CO ALAMOSA	32	9	41	-3	20	3	0.17	0.11	0.09	0.42	233	5.79	82	82	58	0	7	4	0
CO SPRINGS	33	9	47	-8	21	-8	0.06	-0.02	0.06	0.15	75	13.43	78	81	43	0	7	1	0
DENVER INTL	29	0	44	-19	14	-15	0.21	0.15	0.06	0.33	194	10.74	80	85	54	0	7	2	0
GRAND JUNCTION	30	15	36	10	23	-5	0.21	0.11	0.11	0.22	81	7.24	83	90	76	0	7	3	0
PUEBLO	37	5	52	-9	21	-9	0.05	-0.03	0.05	0.29	138	11.20	92	73	61	0	7	1	0
CT BRIDGEPORT	42	28	57	19	35	0	0.69	-0.06	0.35	4.64	215	46.42	108	91	74	0	6	5	0
HARTFORD	40	24	62	15	32	1	0.73	-0.04	0.37	4.88	214	60.73	135	87	68	0	6	5	0
DC WASHINGTON	50	36	67	30	43	4	0.99	0.33	0.49	2.84	150	46.16	121	88	67	0	2	4	0
DE WILMINGTON	47	32	65	25	40	4	1.42	0.68	0.72	4.14	193	40.21	97	94	67	0	3	4	2
FL DAYTONA BEACH	78	59	80	54	69	8	0.00	-0.58	0.00	0.71	43	43.08	89	95	59	0	0	0	0
JACKSONVILLE	77	52	81	44	65	10	0.00	-0.56	0.00	0.58	37	58.73	115	97	57	0	0	0	0
KEY WEST	78	68	79	66	73	1	0.00	-0.47	0.00	0.73	56	41.84	110	89	68	0	0	0	0
MIAMI	80	67	82	63	74	4	0.01	-0.47	0.01	0.13	9	63.00	109	84	55	0	0	1	0
ORLANDO	79	57	81	53	68	5	0.01	-0.49	0.01	0.62	42	57.14	120	98	58	0	0	1	0
PENSACOLA	71	59	77	45	65	11	0.14	-0.69	0.07	2.89	119	56.78	91	99	82	0	0	4	0
TALLAHASSEE	76	52	80	46	64	11	0.03	-0.84	0.02	1.38	57	62.27	101	98	65	0	0	2	0
TAMPA	77	62	79	54	69	6	0.00	-0.52	0.00	1.07	72	45.05	103	89	61	0	0	0	0
WEST PALM BEACH	77	64	80	58	71	3	0.32	-0.30	0.29	0.51	23	59.01	98	79	58	0	0	2	0
GA ATHENS	65	51	73	30	58	14	0.10	-0.70	0.08	2.46	108	37.39	81	89	73	0	1	3	0
ATLANTA	65	53	71	36	59	14	0.05	-0.75	0.03	2.93	121	43.61	89	90	77	0	0	2	0
AUGUSTA	75	51	82	30	63	16	0.00	-0.68	0.00	3.91	220	46.79	108	91	65	0	1	0	0
COLUMBUS	69	54	75	36	61	12	0.24	-0.72	0.24	4.11	147	57.43	122	95	66	0	0	1	0
MACON	72	52	79	36	62	14	0.07	-0.78	0.06	5.16	216	51.73	119	93	65	0	0	2	0
SAVANNAH	75	54	80	40	65	14	0.04	-0.57	0.04	0.54	34	48.32	100	91	64	0	0	1	0
HI HILO	79	66	80	63	73	1	3.24	1.02	2.08	3.99	53	94.25	76	85	82	0	0	7	2
HONOLULU	80	70	82	67	75	0	2.46	1.81	2.02	7.20	411	14.53	85	86	79	0	0	5	1
KAHULUI	84	66	86	62	75	2	0.20	-0.47	0.20	3.50	196	8.54	49	86	77	0	0	1	0
LIHUE	77	68	78	63	72	-1	4.14	3.08	3.06	15.52	516	36.38	96	90	78	0	0	6	2
ID BOISE	29	15	34	7	22	-8	0.05	-0.24	0.05	0.34	39	8.19	70	80	64	0	7	1	0
LEWISTON	22	9	32	2	16	-18	0.15	-0.07	0.09	0.70	108	8.44	69	78	72	0	7	4	0
POCATELLO	24	2	31	-8	13	-12	0.13	-0.09	0.10	0.24	36	8.50	70	86	73	0	7	3	0
IL CHICAGO/O'HARE	30	13	50	3	22	-5	1.26	0.72	0.60	3.50	210	51.65	145	83	71	0	7	6	1
MOLINE	26	6	54	0	16	-10	2.01	1.53	0.91	2.94	199	48.40	130	78	71	0	7	5	1
PEORIA	28	12	51	4	20	-8	1.54	1.01	0.62	2.08	122	47.12	133	88	71	0	7	6	1
ROCKFORD	26	8	47	1	17	-7	1.44	0.99	0.65	2.17	151	45.01	125	80	72	0	7	6	1
SPRINGFIELD	33	17	54	8	25	-5	1.53	0.96	0.48	2.00	115	56.33	162	92	70	0	7	5	0
IN EVANSVILLE	45	29	64	20	37	2	0.44	-0.34	0.26	1.19	48	53.49	124	86	65	0	5	4	0
FORT WAYNE	35	20	54	13	27	-2	1.49	0.87	1.07	2.50	134	39.54	111	87	73	0	6	4	1
INDIANAPOLIS	40	24	56	15	32	1	1.71	1.05	1.34	3.39	165	52.64	132	90	72	0	6	5	1
SOUTH BEND	33	16	53	7	24	-5	1.36	0.67	0.81	2.60	124	46.31	120	82	73	0	6	5	1
IA BURLINGTON	30	8	62	2	19	-9	0.42	-0.04	0.39	1.01	69	46.13	124	78	62	0	6	3	0
CEDAR RAPIDS	22	0	55	-6	11	-12	0.57	0.26	0.27	0.81	77	49.44	150	90	72	0	7	5	0
DES MOINES	24	4	54	-3	14	-11	1.04	0.76	0.56	1.34	147	53.88	157						

Weather Data for the Week Ending December 20, 2008

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL IN., SINCE DEC01	PCT. NORMAL SINCE DEC01	TOTAL IN., SINCE JAN01	PCT. NORMAL SINCE JAN01	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMP. °F		PRECIP	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
KY WICHITA	34	14	55	5	24	-9	0.37	0.08	0.28	0.45	51	60.42	202	82	67	0	7	3	0
KY JACKSON	53	35	66	30	44	6	1.50	0.54	0.66	5.06	177	40.59	85	96	74	0	2	5	2
KY LEXINGTON	48	30	67	21	39	3	1.75	0.84	0.94	3.61	139	50.68	114	87	75	0	4	5	1
KY LOUISVILLE	48	31	69	23	40	3	0.97	0.16	0.48	2.37	97	48.94	113	90	66	0	4	5	0
LA PADUCAH	48	30	65	21	39	2	1.01	0.03	0.64	3.30	108	53.93	113	88	63	0	5	5	1
LA BATON ROUGE	75	58	82	45	67	15	0.15	-1.01	0.15	3.30	100	54.11	89	94	66	0	0	1	0
LA LAKE CHARLES	71	55	78	40	63	10	0.03	-0.95	0.01	1.45	51	46.29	83	97	79	0	0	3	0
LA NEW ORLEANS	75	61	80	53	68	13	0.15	-0.95	0.14	2.00	59	53.84	86	96	81	0	0	2	0
LA SHREVEPORT	63	44	77	31	54	6	0.12	-0.89	0.05	2.32	79	50.38	101	97	74	0	1	3	0
ME CARIBOU	23	1	47	-16	12	-4	0.51	-0.20	0.33	3.52	175	48.22	133	85	61	0	7	3	0
ME PORTLAND	36	16	57	7	26	-2	0.32	-0.62	0.14	2.14	78	62.14	140	80	60	0	6	3	0
MD BALTIMORE	49	33	67	24	41	5	1.31	0.57	0.63	3.07	147	44.92	110	88	67	0	3	4	2
MA BOSTON	44	26	63	13	35	0	0.78	-0.05	0.45	4.83	202	51.81	126	86	61	0	6	4	0
MA WORCESTER	37	20	58	9	29	0	0.97	0.14	0.42	3.49	146	61.01	128	93	71	0	6	5	0
MI ALPENA	28	7	45	-12	17	-7	0.37	-0.02	0.12	1.47	129	31.50	114	87	70	0	7	6	0
MI GRAND RAPIDS	31	19	50	11	25	-3	1.06	0.47	0.47	1.77	93	46.09	127	87	73	0	6	6	0
MI HOUGHTON LAKE	25	7	44	-11	16	-8	0.75	0.38	0.25	1.79	158	33.82	122	89	80	0	7	6	0
MI LANSING	31	17	51	11	24	-3	1.11	0.64	0.48	1.89	124	35.73	116	86	73	0	6	6	0
MI MUSKOGON	31	18	48	8	24	-5	1.12	0.55	0.43	2.27	128	42.81	134	87	74	0	6	5	0
MI TRAVERSE CITY	27	9	46	-7	18	-8	0.71	0.13	0.38	1.83	111	29.13	90	83	74	0	6	5	0
MN DULUTH	12	-8	26	-22	2	-12	0.45	0.28	0.19	0.80	119	30.56	99	81	72	0	7	5	0
MN INT'L FALLS	3	-18	15	-28	-7	-15	0.41	0.28	0.21	0.76	165	27.21	115	79	63	0	7	4	0
MN MINNEAPOLIS	16	-3	38	-11	7	-12	0.58	0.39	0.30	0.84	127	23.01	79	82	71	0	7	5	0
MN ROCHESTER	17	-3	41	-9	7	-10	0.51	0.31	0.21	0.88	122	33.57	108	80	75	0	7	3	0
MN ST. CLOUD	13	-12	32	-24	1	-13	0.68	0.54	0.36	0.84	191	27.60	103	88	65	0	7	3	0
MS JACKSON	66	49	75	39	58	11	0.29	-0.89	0.17	7.77	228	60.03	111	97	80	0	0	3	0
MS MERIDIAN	72	52	77	40	62	13	0.90	-0.26	0.79	7.07	209	59.42	105	94	72	0	0	5	1
MS TUPELO	58	42	69	32	50	7	2.33	0.95	0.98	9.45	239	59.03	110	93	83	0	1	6	2
MO COLUMBIA	33	14	63	6	24	-8	0.71	0.17	0.31	1.23	69	60.60	153	93	76	0	7	4	0
MO KANSAS CITY	30	8	60	1	19	-12	0.36	0.01	0.17	0.50	44	46.45	124	83	65	0	7	4	0
MO SAINT LOUIS	38	21	61	13	29	-5	1.01	0.40	0.34	1.54	77	59.97	158	83	74	0	7	5	0
MO SPRINGFIELD	41	20	61	11	30	-6	0.30	-0.39	0.16	0.81	34	65.67	149	85	75	0	7	4	0
MT BILLINGS	4	-10	27	-19	-3	-29	0.19	0.05	0.16	0.73	203	13.41	93	79	64	0	7	4	0
MT BUTTE	9	-15	24	-23	-3	-20	0.00	-0.11	0.00	0.23	74	9.58	76	82	54	0	7	0	0
MT CUT BANK	-2	-19	17	-27	-10	-31	0.00	-0.06	0.00	0.05	31	12.82	104	80	62	0	7	0	0
MT GLASGOW	-6	-23	7	-32	-15	-31	0.09	0.02	0.05	0.55	306	13.35	121	79	73	0	7	2	0
MT GREAT FALLS	0	-18	23	-25	-9	-33	0.12	-0.02	0.08	0.65	186	15.10	104	83	60	0	7	5	0
MT HAVRE	-3	-22	18	-33	-12	-31	0.01	-0.10	0.01	0.25	89	12.40	110	76	67	0	7	1	0
MT MISSOULA	10	-4	25	-15	3	-20	0.01	-0.24	0.01	0.18	26	11.81	88	73	65	0	7	1	0
NE GRAND ISLAND	20	-2	46	-8	9	-16	0.53	0.41	0.38	0.68	148	41.69	162	83	69	0	7	3	0
NE LINCOLN	24	0	51	-6	12	-14	0.71	0.54	0.45	0.71	122	40.71	145	78	65	0	7	4	0
NE NORFOLK	17	-5	41	-12	6	-18	0.68	0.56	0.52	0.98	218	31.95	121	83	70	0	7	4	1
NE NORTH PLATTE	23	-6	34	-15	9	-17	0.22	0.14	0.19	0.22	92	27.96	143	82	61	0	7	2	0
NE OMAHA	23	2	49	-5	13	-12	0.79	0.61	0.57	0.79	120	41.70	139	82	67	0	7	4	1
NE SCOTTSBLUFF	27	-3	49	-14	12	-14	0.00	-0.11	0.00	0.10	29	14.20	88	76	54	0	7	0	0
NE VALENTINE	18	-6	36	-14	6	-17	0.03	-0.03	0.03	0.19	90	22.66	117	76	62	0	7	1	0
NV ELY	30	4	35	-10	17	-9	0.06	-0.03	0.03	0.06	25	5.81	60	81	57	0	7	3	0
NV LAS VEGAS	45	34	49	31	40	-7	1.02	0.94	0.71	1.02	510	3.22	75	76	53	0	3	3	1
NV RENO	36	15	43	3	26	-7	0.13	-0.06	0.09	0.14	25	6.16	86	83	66	0	7	3	0
NV WINNEMUCCA	34	3	62	-12	19	-10	0.50	0.33	0.28	0.56	119	6.06	76	85	71	0	7	5	0
NH CONCORD	36	17	60	9	27	1	0.89	0.26	0.46	2.61	137	55.49	152	85	62	0	6	4	0
NJ NEWARK	46	31	67	23	39	3	1.40	0.64	0.88	4.63	204	46.54	104	82	62	0	6	5	1
NM ALBUQUERQUE	45	29	52	25	37	1	0.38	0.29	0.21	0.45	180	8.18	89	80	40	0	5	3	0
NY ALBANY	37	21	58	9	29	1	0.96	0.38	0.40	3.41	194	46.80	126	84	62	0	6	5	0
NY BINGHAMTON	33	21	52	12	27	0	0.80	0.13	0.44	2.78	136	38.87	103	90	73	0	7	4	0
NY BUFFALO	34	21	55	10	27	-3	1.45	0.61	0.64	3.73	148	46.13	117	88	62	0	6	5	1
NY ROCHESTER	35	23	56	13	29	0	1.02	0.42	0.47	1.61	89	28.75	87	74	58	0	7	7	0
NY SYRACUSE	35	20	57	8	27	-1	1.27	0.60	0.57	2.26	105	40.20	103	88	68	0	7	5	1
NC ASHEVILLE	59	44	68	27	52	13	0.86	0.14	0.38	4.09	191	34.93	76	95	76	0	1	4	0
NC CHARLOTTE	61	46	68	26	54	10	0.34	-0.34	0.22	2.93	153	41.96	99	95	76	0	1	3	0
NC GREENSBORO	57	42	68	30	50	9	0.54	-0.12	0.21	2.31	122	37.32	89	92	72	0	1	4	0
NC HATTERAS	65	52	70	42	58	8	1.15	0.18	0.71	3.83	142	62.57	112	96	77	0	0	3	1
NC RALEIGH	62	46	71	28	54	11	0.28	-0.37	0.24	1.92	105	49.42	118	93	77	0	1	3	0
NC WILMINGTON	71	51	76	35	61	12	0.17	-0.64	0.13	2.11	90	60.33	108	98	66	0	0	4	0
ND BISMARCK	0	-14	9	-23	-7	-22	0.17	0.09	0.12	0.41	164	20.04	120	77	71	0	7	3	0
ND DICKINSON	-1	-17	15	-25	-9	-27	0.00	-0.06	0.00	0.07	35	10.90	67	81	66	0	7	0	0
ND FARGO	5	-12	15	-18	-4	-16	0.37	0.26	0.22	0.57	184	31.73	152	80	69	0	7	5	0
ND GRAND FORKS	0	-16	11	-20	-8	-19	0.24	0.13	0.14	0.42	131	24.51	127	83	67	0	7	4	0
ND JAMESTOWN	0	-14	6	-22	-7	-21	0.05	-0.03	0.02	0.21	88	23.07	126	84	69	0	7	3	0
ND WILLISTON	-5	-20	5	-27	-13	-26	0.27	0.16	0.19	1.45	439	13.66	98	78	71	0	7	4	0
OH AKRON-CANTON	39	24	55	19	32	1	1.21	0.55	0.95	1.72	86	40.36	108	83	73	0	7	4	1
OH CINCINNATI	44	28	65	21	36	2	1.39	0.67	0.91	2.22	104	45.12	109	89	74	0	5	6	1
OH CLEVELAND	37	24	56	20	30	-1	1.29	0.60	1.01	2.69	125	43.36	115	90	73	0	6	5	1
OH COLUMBUS	42	27	58	20	35	2	1.96	1.32	1.74	2.70	137	44.22	118	82	71	0	6	4	1
OH DAYTON	41	24	57	17	32	1	1.95	1.27	1.53	2.66	130	41.79	108	89	73	0	6	6	1
OH MANSFIELD	37	22	53	17	29	-1	1.45	0.73	1.13	2.34	105	41.72	99	92	75	0	7	5	1

Based on 1971-2000 normals

Weather Data for the Week Ending December 20, 2008

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL IN. SINCE DEC01	PCT. NORMAL SINCE DEC01	TOTAL IN. SINCE JAN01	PCT. NORMAL SINCE JAN01	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMP. °F		PRECIP.		
																90 AND ABOVE	32 AND BELOW	0.1 INCH OR MORE	0.5 INCH OR MORE	
OK TOLEDO	34	21	54	16	28	-1	1.47	0.88	0.94	2.74	153	38.80	120	89	74	0	6	4	1	
OK YOUNGSTOWN	40	25	56	21	32	2	1.04	0.39	0.81	1.91	95	43.85	118	82	69	0	7	4	1	
OK OKLAHOMA CITY	47	24	72	15	35	-4	0.00	-0.41	0.00	0.05	4	35.19	100	77	54	0	5	0	0	
OR TULSA	47	23	75	15	35	-4	0.20	-0.32	0.12	1.02	59	54.73	131	76	66	0	6	2	0	
OR ASTORIA	37	27	45	23	32	-11	1.41	-0.90	0.58	3.75	54	60.14	94	84	72	0	7	5	1	
OR BURNS	23	-3	32	-22	10	-15	0.34	0.06	0.17	0.47	59	7.73	77	87	77	0	7	6	0	
OR EUGENE	35	22	41	10	29	-10	1.35	-0.49	0.58	2.03	36	27.21	56	95	85	0	6	6	1	
OR MEDFORD	37	27	39	17	32	-6	0.52	-0.12	0.25	0.76	39	12.15	70	93	76	0	7	4	0	
OR PENDLETON	22	2	36	-10	12	-22	0.64	0.33	0.21	1.23	129	10.67	87	91	78	0	7	5	0	
OR PORTLAND	35	24	40	20	30	-10	0.21	-1.06	0.09	1.04	27	25.40	72	81	69	0	6	5	0	
OR SALEM	35	22	40	14	29	-11	1.41	-0.03	0.79	2.58	59	26.60	70	88	81	0	7	5	1	
PA ALLENTOWN	42	27	61	20	35	3	1.43	0.70	0.93	3.89	178	48.61	111	86	68	0	6	4	1	
PA ERIE	38	26	57	17	32	0	1.38	0.54	0.59	3.75	147	42.60	102	85	70	0	6	5	1	
PA MIDDLETOWN	44	31	63	25	37	4	2.00	1.29	1.07	5.16	236	44.55	113	96	65	0	5	4	2	
PA PHILADELPHIA	47	32	66	26	40	3	1.57	0.85	0.80	5.24	252	39.80	98	88	67	0	3	4	2	
PA PITTSBURGH	44	28	59	24	36	4	1.67	1.05	1.39	2.81	149	37.19	101	88	67	0	7	4	1	
PA WILKES-BARRE	40	26	59	19	33	2	1.21	0.66	0.65	4.14	241	41.95	114	86	66	0	6	4	1	
PA WILLIAMSPORT	41	28	58	19	35	4	1.29	0.66	1.02	3.02	150	44.30	109	75	59	0	6	4	1	
RI PROVIDENCE	43	25	62	15	34	1	0.86	-0.05	0.51	5.49	207	55.37	123	83	63	0	6	4	1	
SC BEAUFORT	73	54	81	39	63	12	0.03	-0.64	0.02	0.03	2	39.65	82	96	65	0	0	2	0	
SC CHARLESTON	74	54	80	38	64	14	0.05	-0.65	0.03	0.29	15	47.40	94	94	61	0	0	2	0	
SC COLUMBIA	70	51	79	29	61	14	0.08	-0.65	0.06	3.18	164	43.72	93	93	71	0	1	2	0	
SC GREENVILLE	61	47	74	29	54	11	0.59	-0.25	0.23	3.56	150	37.62	77	92	71	0	1	4	0	
SD ABERDEEN	8	-13	21	-22	-3	-19	0.34	0.27	0.27	0.70	412	26.01	130	78	69	0	7	4	0	
SD HURON	11	-8	18	-13	1	-18	0.11	0.05	0.05	3.20	1524	27.81	134	81	65	0	7	4	0	
SD RAPID CITY	9	-8	30	-19	1	-24	0.10	0.02	0.05	0.38	200	22.12	135	78	57	0	7	4	0	
SD SIOUX FALLS	15	-6	33	-11	5	-13	0.38	0.29	0.13	0.62	182	25.50	104	79	69	0	7	3	0	
TN BRISTOL	58	43	66	24	51	14	1.35	0.61	0.40	3.27	150	34.13	85	98	73	0	1	5	0	
TN CHATTANOOGA	59	47	68	31	53	11	1.95	0.92	0.88	7.12	230	44.81	85	93	82	0	1	4	2	
TN KNOXVILLE	56	43	64	25	50	9	2.92	1.93	1.07	7.58	264	46.65	100	97	81	0	1	5	3	
TN MEMPHIS	57	37	71	28	47	4	0.39	-0.89	0.20	4.74	120	59.87	113	89	69	0	2	4	0	
TN NASHVILLE	55	35	73	28	45	5	0.69	-0.31	0.23	5.24	174	46.09	99	90	71	0	2	6	0	
TX ABILENE	58	33	79	18	45	0	0.01	-0.28	0.01	0.01	1	25.52	110	70	45	0	3	1	0	
TX AMARILLO	53	21	66	9	37	0	0.00	-0.13	0.00	0.02	7	20.68	107	58	28	0	6	0	0	
TX AUSTIN	65	45	80	29	55	3	0.13	-0.42	0.09	0.35	23	18.13	55	88	75	0	2	3	0	
TX BEAUMONT	70	55	77	41	63	9	0.30	-0.85	0.19	1.68	52	52.64	91	100	82	0	0	3	0	
TX BROWNSVILLE	74	54	82	38	64	3	0.10	-0.12	0.09	0.20	28	38.68	142	97	75	0	0	2	0	
TX CORPUS CHRISTI	71	52	82	34	61	3	0.14	-0.25	0.14	0.29	27	31.08	98	96	83	0	0	1	0	
TX DEL RIO	66	44	80	33	55	3	0.00	-0.17	0.00	0.03	6	18.97	106	86	64	0	0	0	0	
TX EL PASO	64	41	70	32	53	8	0.00	-0.17	0.00	0.26	57	9.87	108	59	27	0	1	0	0	
TX FORT WORTH	59	37	79	25	48	1	0.10	-0.49	0.09	0.13	8	27.79	82	83	53	0	2	2	0	
TX GALVESTON	65	54	73	44	59	1	0.14	-0.50	0.11	***	***	***	***	100	89	0	0	4	0	
TX HOUSTON	68	54	80	37	61	8	0.11	-0.69	0.04	0.90	38	53.85	116	95	82	0	0	4	0	
TX LUBBOCK	55	27	71	15	41	2	0.00	-0.14	0.00	0.01	3	28.43	155	53	31	0	4	0	0	
TX MIDLAND	62	30	77	20	46	1	0.00	-0.14	0.00	0.12	31	11.50	79	69	36	0	3	0	0	
TX SAN ANGELO	64	37	82	23	51	5	0.00	-0.22	0.00	0.05	9	20.78	101	74	49	0	3	0	0	
TX SAN ANTONIO	67	48	80	32	58	6	0.03	-0.41	0.02	0.23	18	14.84	46	93	65	0	1	2	0	
TX VICTORIA	68	50	79	31	59	4	0.01	-0.54	0.01	0.26	17	22.21	57	99	83	0	1	1	0	
TX WACO	61	40	77	27	51	3	0.12	-0.51	0.12	0.42	23	43.07	133	84	66	0	2	1	0	
TX WICHITA FALLS	52	28	81	19	40	-3	0.00	-0.39	0.00	0.71	66	27.54	98	73	55	0	5	0	0	
UT SALT LAKE CITY	31	16	34	12	24	-6	0.31	0.06	0.20	0.65	88	11.53	72	85	60	0	7	3	0	
VT BURLINGTON	32	15	51	-5	24	-1	0.71	0.25	0.31	1.87	126	39.25	111	76	58	0	6	4	0	
VA LYNCHBURG	55	37	62	27	46	8	0.57	-0.13	0.38	2.94	146	31.00	74	94	75	0	1	5	0	
VA NORFOLK	62	43	72	31	53	9	0.14	-0.51	0.06	3.20	179	41.22	93	94	74	0	1	4	0	
VA RICHMOND	60	39	73	29	50	10	0.67	0.00	0.55	3.68	196	49.19	115	87	72	0	1	3	1	
VA ROANOKE	59	39	69	31	49	10	0.47	-0.14	0.26	1.83	100	32.77	79	88	73	0	1	5	0	
WA WASH/DULLES	48	34	65	22	41	5	0.99	0.32	0.59	2.53	129	43.67	107	89	73	0	2	4	1	
WA OLYMPIA	32	18	35	7	25	-13	1.06	-0.68	0.56	2.27	43	37.54	78	85	72	0	7	4	1	
WA QUILLAYUTE	33	23	40	19	28	-12	1.00	-2.24	0.63	4.32	45	80.62	83	75	63	0	7	4	1	
WA SEATTLE-TACOMA	31	21	36	14	26	-14	0.45	-0.79	0.18	1.86	49	29.57	84	79	70	0	7	4	0	
WA SPOKANE	13	0	20	-18	7	-20	1.44	0.95	0.72	2.05	137	16.05	101	83	72	0	7	3	2	
WA YAKIMA	19	5	23	-4	12	-17	0.21	-0.09	0.16	0.35	41	5.18	67	80	69	0	7	4	0	
WV BECKLEY	53	37	64	31	45	10	0.93	0.26	0.23	3.60	185	43.80	108	90	77	0	3	6	0	
WV CHARLESTON	53	35	68	31	44	7	1.37	0.65	0.47	4.24	192	44.54	104	94	72	0	2	6	0	
WV ELKINS	54	34	66	26	44	11	1.23	0.48	0.46	4.16	187	43.52	97	96	66	0	3	4	0	
WV HUNTINGTON	50	32	67	27	41	4	0.87	0.13	0.46	2.84	131	39.76	97	98	74	0	4	5	0	
WI EAU CLAIRE	18	-4	42	-13	7	-10	0.26	0.06	0.25	0.45	64	29.08	91	89	67	0	7	2	0	
WI GREEN BAY	21	3	41	-9	12	-9	0.75	0.46	0.30	1.31	134	29.04	101	86	68	0	7	4	0	
WI LA CROSSE	20	0	44	-6	10	-12	0.77	0.53	0.29	1.41	164	35.54	111	89	63	0	7	4	0	
WI MADISON	22	5	44	-3	13	-10	1.22	0.87	0.64	2.12	183	44.28	136	84	70	0	7	4	1	
WI MILWAUKEE	32	15	51	2	23	-3	0.91	0.43	0.38	2.20	145	42.62	125	77	67	0	7	4	0	
WY CASPER	17	-10	36	-20	4	-20	0.08	-0.04	0.02	0.39	105	12.61	99	72	60	0	7	2	0	
WY CHEYENNE	26	3	41	-13	14	-13	0.07	-0.01	0.01	0.33	118	15.19	99	65	46	0	7	2	0	
WY LANDER	19	-3	33	-13	8	-13	0.00	-0.11	0.00	0.19	49	14.88	113	72	40	0	7	0	0	
WY SHERIDAN	7	-11	31	-18	-2	-24	0.05	-0.09	0.05	0.42	108	17.01	118	79	69	0	7	1	0	

Based on 1971-2000 normals

*** Not Available

National Agricultural Summary

December 15-21, 2008

Weekly National Agricultural Summary provided by USDA/NASS

HIGHLIGHTS

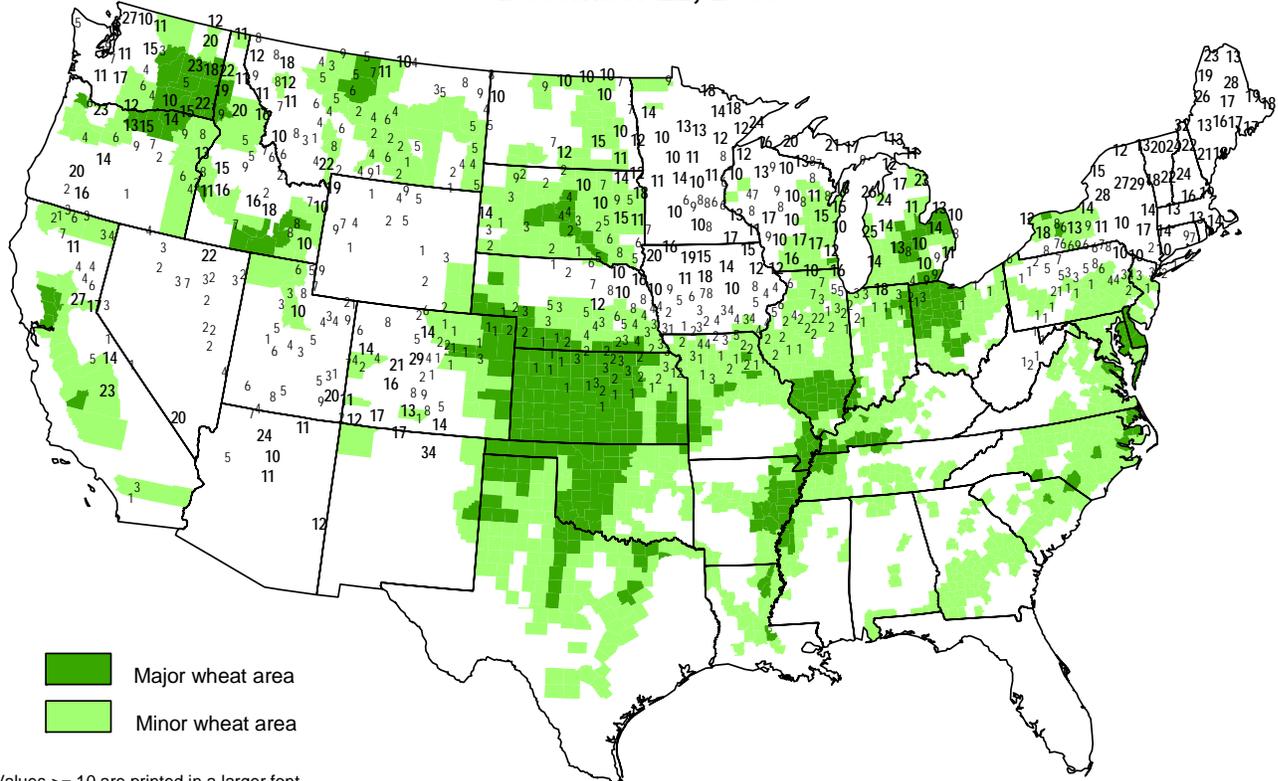
A blanket of snow stretched across the northern half of the country, providing protection from bitterly cold weather for the winter wheat crop. California experienced moderate to heavy rainfall, with the heaviest amounts recorded in southern portions of the State. Temperatures were well below average across the northern, western, and central regions of the country, with above-normal temperatures limited to the Southeast.

Rain in California halted field activities in some areas, while freezes threatened vegetable crops. Vegetable harvest continued as weather permitted, along with cultivation, irrigation, and weed control in small grain fields. Between rains, alfalfa planting

was active, while cotton harvest was coming to a close and rice field preparation was ongoing. In Arizona, cotton was 85 percent harvested and alfalfa harvest continued. Arizona's producers were harvesting multiple vegetables and cantaloupe. Florida's warm, dry weather allowed for land preparations in potato and watermelon fields, and harvest of vegetables to meet holiday demands. Sugarcane harvest was ongoing and citrus was in fair to good condition statewide, as frequent irrigation was necessary due to the lack of precipitation. Florida's citrus harvest was ahead of the previous year, and producers were fertilizing, cleaning groves, hedging, spraying for pests, and preparing for further harvest activities.

Snow Depth (inches)

December 22, 2008



- Major wheat area
- Minor wheat area

Values ≥ 10 are printed in a larger font.

Snow depth reports obtained from the NWS Cooperative Observer Network.

International Weather and Crop Summary

December 14 - 20, 2008

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

HIGHLIGHTS

FSU-WESTERN: The coldest weather so far this season prevailed over winter grain areas in Ukraine and Russia.

EUROPE: Heavy rain in southern Europe caused flooding and fieldwork delays, while dry, milder weather overspread the remainder of the subcontinent.

MIDDLE EAST: Dry weather prevailed over the region, promoting winter crop growth prior to entering dormancy.

NORTHWEST AFRICA: Additional heavy rain over Morocco and Algeria hampered winter grain planting, while welcomed showers in Tunisia eased pockets of short-term dryness.

AUSTRALIA: Abundant rain kept mature winter grains unfavorably wet in southern Australia, while drier weather in western and eastern Australia allowed winter grain harvesting to resume.

SOUTHEAST ASIA: Seasonably dry weather prevailed in Indochina and across much of the Philippines, easing wetness and aiding fieldwork.

SOUTH ASIA: Dry weather prevailed in India, while unseasonable showers in Pakistan continued to hamper late cotton harvesting.

ARGENTINA: Stressful heat and dryness persisted over much of the country's main summer crop region.

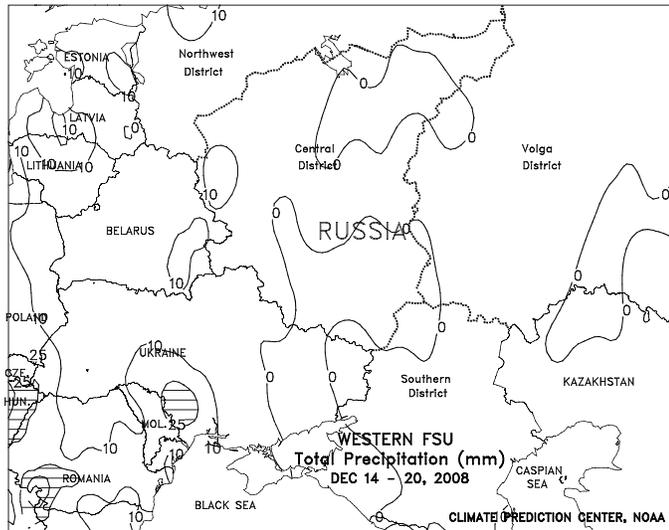
BRAZIL: Rain covered most summer crop areas, although pockets of dryness lingered in the south.

SOUTH AFRICA: Warm, sunny weather fostered rapid growth of emerging corn.



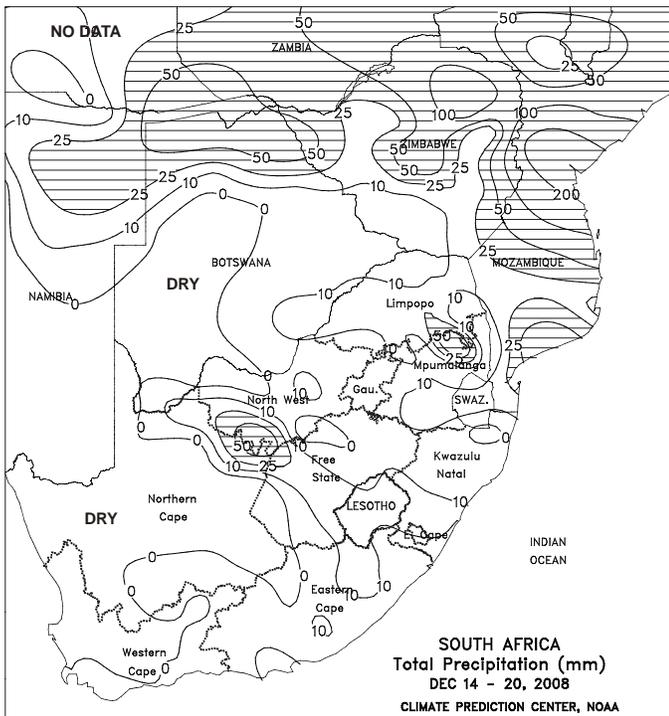
EUROPE

Heavy rain over southern Europe contrasted with drier weather in northern crop growing areas. A slow-moving Mediterranean storm generated heavy rain and mountain snow (25-100 mm or more) in northern Italy and southern France, halting winter grain planting but increasing reservoir levels and irrigation reserves. Locally heavy rain and snow (25-100 mm or more) also stopped fieldwork across central and southern Italy and western portions of the Balkans. The storm produced lighter showers (5-50 mm) over the remainder of southeastern Europe, providing additional topsoil moisture for vegetative winter grains. Meanwhile, a cold front triggered light rain and some snow (1-10 mm liquid equivalent) over England, France, and western Germany, maintaining adequate moisture reserves for dormant winter crops. Drier weather returned to interior portions of the Iberian Peninsula, while locally heavy showers (10-60 mm) lingered along Spain's northern and southern coasts. In Poland, weekly average temperatures up to 3 degrees C above normal kept the region devoid of a protective snow cover and caused the precipitation in the region (5-25 mm) to fall as rain.



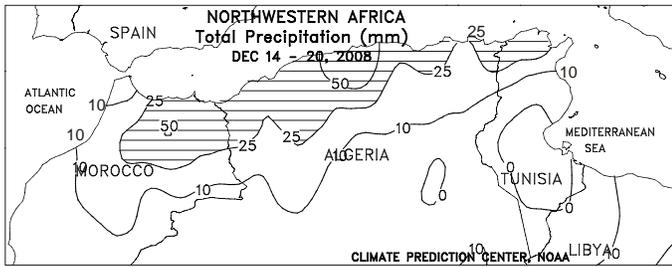
FSU-WESTERN

The coldest weather so far this season prevailed over winter grain areas in Ukraine and Russia. Light rain and snow (2-5 mm or more of liquid equivalent) accompanied the colder weather in western Ukraine and Belarus, while locally heavy snow (10-25 mm or more of liquid equivalent) was observed in southwestern Ukraine. Light, if any, precipitation was recorded over the remainder of the region. Overall, temperatures did not fall low enough to threaten dormant winter grains. Weekly temperatures ranged from 1 to 2 degrees C above normal in western Ukraine, western Belarus, and northernmost areas in the Central and Volga Districts in Russia, to as low as 7 degrees C below normal in the eastern portion of the Russian Southern District. Extreme minimum temperatures ranged from -10 to -5 degrees C in Ukraine, Belarus, and most of the Central District in Russia and -20 to -10 degrees C in the Volga and Southern Districts in Russia. Minimum temperatures remained at or above -15 degrees C in most areas that were snow-free.



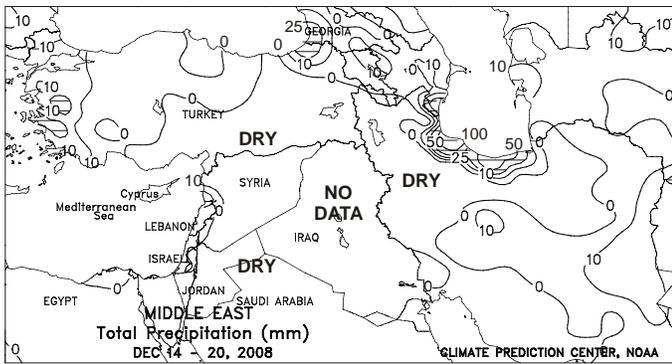
SOUTH AFRICA

Warm, mostly dry weather aided early summer crop development across the corn belt. Temperatures averaging near to slightly below normal (highs in the lower 30s degrees C, most areas) maintained favorable topsoil temperatures for germination, although additional rain would be welcome in a few of the drier spots in the western corn belt to allow the completion of planting. Elsewhere, showers were generally scattered and light (locally exceeding 10 mm) in the main sugarcane areas of KwaZulu-Natal, increasing the need for supplemental irrigation. Light rain also fell in nearby sections of Eastern Cape but dry, warmer-than-normal weather (temperatures averaging 2-3 degrees C above normal) dominated most other farming areas in the Cape Provinces, fostering rapid growth of those regions' predominantly irrigated agriculture.



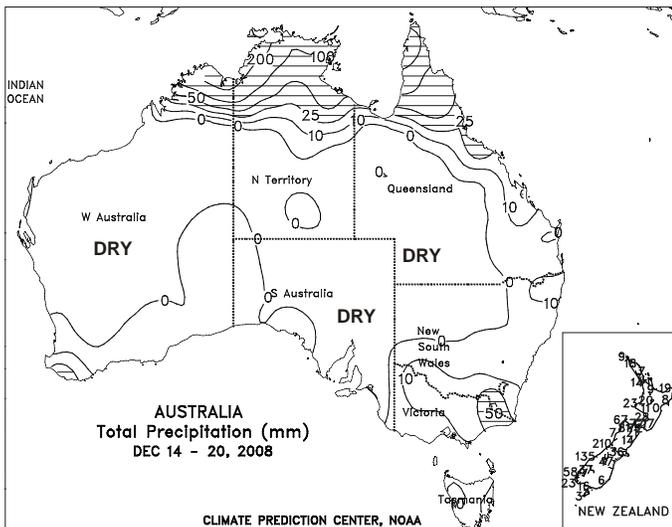
NORTHWEST AFRICA

A slow-moving Mediterranean storm system maintained wet weather over much of the region. In northern Morocco, 10 to 50 mm of rain continued to hamper field work which has already been delayed by record-setting season-to-date rainfall. However, drier conditions in Morocco's southern wheat districts befitted planting activities. Moderate to heavy rain (10-100 mm) stopped winter grain planting in northern Algeria. In Tunisia, where pockets of dryness in northeastern crop areas has reduced soil moisture for crop establishment, the showers (10-40 mm) eased short-term precipitation deficits and improved prospects for wheat and barley establishment.



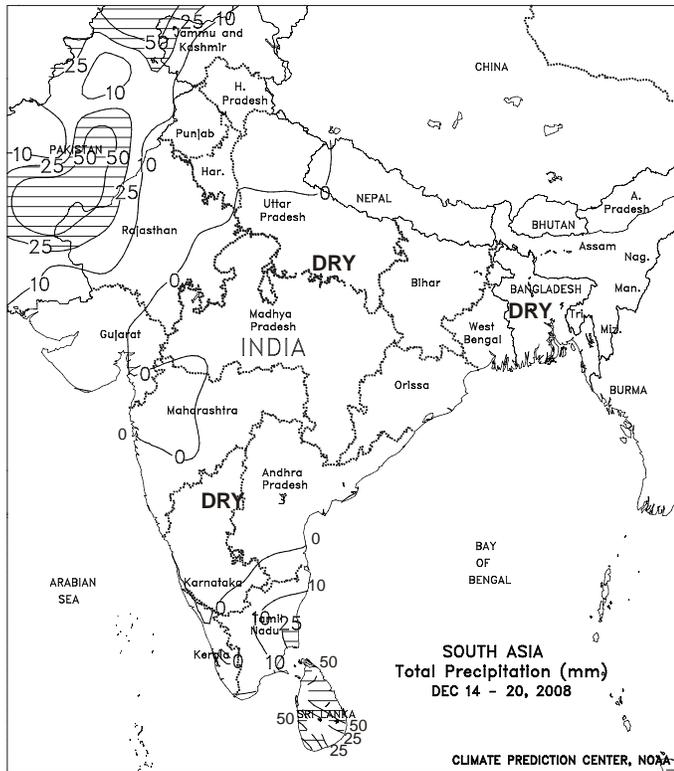
MIDDLE EAST

A slow-moving Mediterranean storm system maintained wet weather over much of the region. In northern Morocco, 10 to 50 mm of rain continued to hamper field work which has already been delayed by record-setting season-to-date rainfall. However, drier conditions in Morocco's southern wheat districts befitted planting activities. Moderate to heavy rain (10-100 mm) stopped winter grain planting in northern Algeria. In Tunisia, where pockets of dryness in northeastern crop areas has reduced soil moisture for crop establishment, the showers (10-40 mm) eased short-term precipitation deficits and improved prospects for wheat and barley establishment.



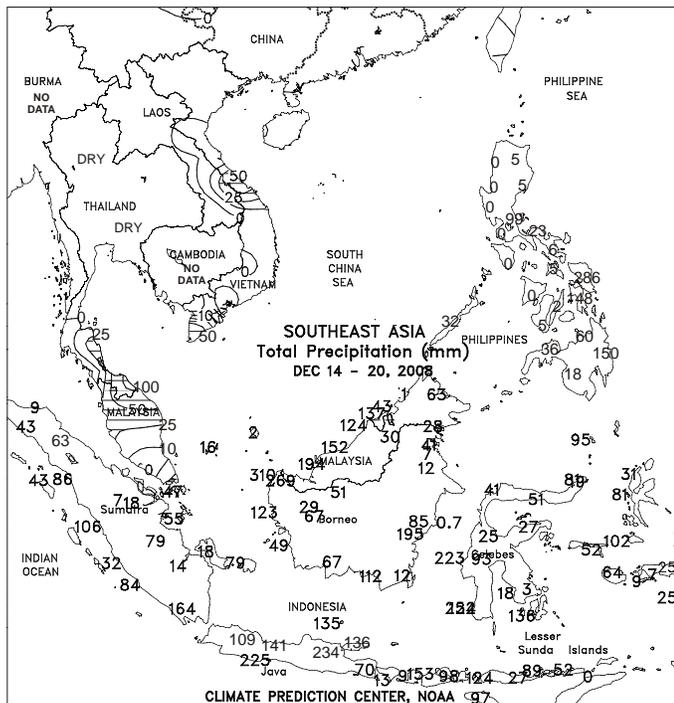
AUSTRALIA

Scattered showers (2-10 mm, locally more) in Queensland and most of New South Wales maintained adequate to abundant moisture supplies for vegetative summer crops. Breaks in the rain, however, helped dry mature winter wheat locally and likely allowed the often interrupted winter grain harvest to resume in some areas. More abundant rain (10-30 mm, locally more) fell across extreme southern New South Wales, Victoria, and eastern portions of South Australia, delaying winter grain harvesting and causing quality concerns. In contrast, mostly dry weather (less than 5 mm) overspread Western Australia, favoring fieldwork. The drier weather was particularly welcome in southern portions of the state, where persistently wet weather has kept mature winter grains unfavorably moist and frequently delayed harvesting. Very warm weather in Western Australia aided dry down and harvesting, with maximum temperatures generally in the middle to upper 30s degrees C. Elsewhere across the Australia wheat belt, the weather remained unseasonably cool, with temperatures averaging about 2 to 3 degrees C below normal.



SOUTH ASIA

Dry weather in India contrasted with additional rain in Pakistan. Southwesterly flow continued off the Arabian Sea triggering another round of unseasonably heavy showers (5-50 mm) in Pakistan, hampering late cotton harvesting. However, the bulk of the cotton harvest is typically finished by mid-December, mitigating the impacts of the unusual late-season rainfall. Dry, sunny weather across most of India and Bangladesh favored summer crop harvesting and wheat development. However, showers (20-40 mm) from a tropical disturbance in southeastern India slowed fieldwork and added concern for potential damage to unharvested rice; the southern tip of India has been beset by a series of tropical cyclones during the past month, and reports emanating from southern India have indicated the incursions of heavy rain and gusty winds have adversely impacted standing crops.



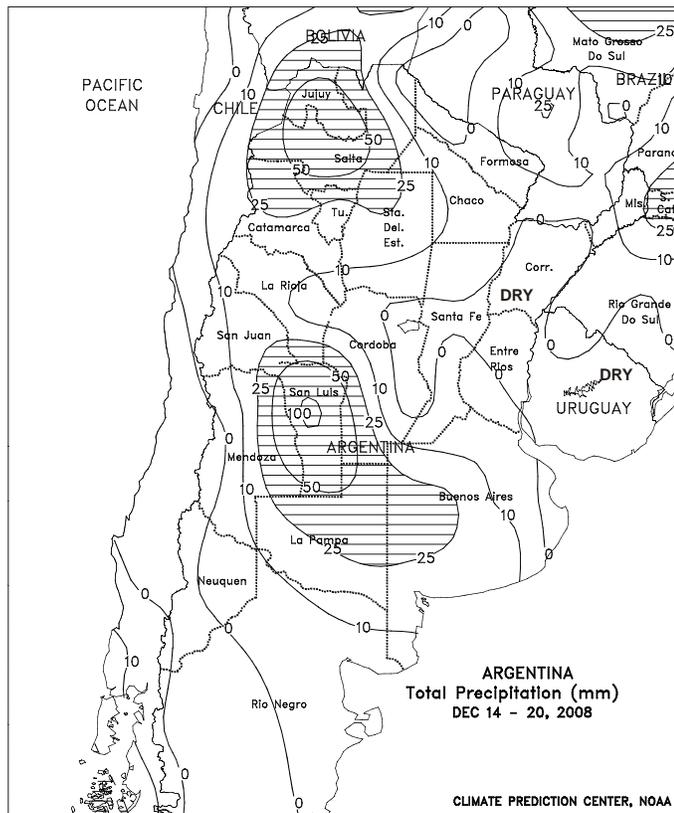
SOUTHEAST ASIA

Seasonably dry weather prevailed across Indochina and over most of the Philippines aiding fieldwork activities for irrigated rice and corn. The dry weather in the northern Philippines was especially favorable, helping to ease lingering wetness in southeastern Luzon. Elsewhere in the Philippines, rainfall (25-100 mm) was generally confined to eastern areas maintaining soil moisture for rice and corn in these areas. Tropical showers (25-200 mm) dominated Indonesia and Malaysia maintaining favorable moisture supplies for oil palm and rice, but the rainfall caused some localized flooding and oil palm harvest delays where the highest amounts occurred.



BRAZIL

Near- to above-normal rainfall covered a broad region of central and southeastern Brazil, providing generally beneficial moisture for summer row crops but likely causing localized flooding. Very heavy rain (greater than 100 mm) fell from eastern Mato Grosso and Tocantins southeastward to Rio de Janeiro; otherwise, accumulations generally ranged from 25 to 50 mm. Of greatest concern for potential problems from flooding were the higher elevation coffee plantations in and around southeastern Minas Gerais, where local accumulations exceeded 200 mm. In contrast, seasonably dry weather promoted sugarcane harvesting and other seasonal fieldwork in Brazil's northeastern tip. In southern Brazil, beneficial rain (greater than 25 mm) fell from Santa Catarina to eastern Sao Paulo, including farming areas of eastern Parana, increasing moisture for corn, soybeans, and sugarcane. Drier conditions prevailed, however, in Rio Grande do Sul and an area encompassing northwestern Parana and adjacent locations in western Sao Paulo and Mato Grosso do Sul. Temperatures averaged about 1 degree C above normal in these drier southern areas (highs reaching the middle 30s degrees C), maintaining high moisture requirements of corn and soybeans in varying stages of development. Conditions have been exceptionally dry in parts of southern Brazil since the early part of November, and rain is needed to prevent significant declines in yield potential of corn and soybeans.



ARGENTINA

Mostly dry, unseasonably warm weather dominated a large section of central and northeastern Argentina that included key summer grain and oilseed areas in northeastern Cordoba, Santa Fe, Entre Rios, and eastern Buenos Aires. Temperatures averaged 3 to 4 degrees C above normal in these areas, with highs reaching the middle and upper 30s degrees C on several days during the week, compounding stress on emerged summer crops that have received little, if any, rain over the past few weeks. Similar conditions prevailed in the northern cotton belt, with highs exceeding 40 degrees C from west-central Santa Fe northward through Formosa. Rain is needed immediately in the aforementioned areas to prevent significant declines in the production of summer crops and livestock. In contrast to the heat and dryness affecting the northeast, rainy weather continued to prevail in Argentina's western farming areas. In the north, near- to above-normal rainfall (15-50 mm or more) benefited agriculture in the vicinity of Jujuy and Salta while farther south, the heaviest rain (greater than 50 mm) was concentrated over San Luis. The showers in these southern areas was able to reach farming areas of La Pampa, southwestern Cordoba, and southwestern Buenos Aires, giving a needed boost to early developing summer grains and oilseeds. Despite the rain, however, temperatures averaged 2 to 4 degrees C above normal in these southern summer cropping areas, maintaining high rates of development and moisture usage. According to Argentina's ministry of agriculture (SAGPyA), corn and sunflowers were 82 and 97 percent planted, respectively, as of December 18. Soybeans were 75 percent planted compared with 73 percent last year. In addition, winter wheat was 73 percent harvested, nearly 20 points ahead of last year.

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