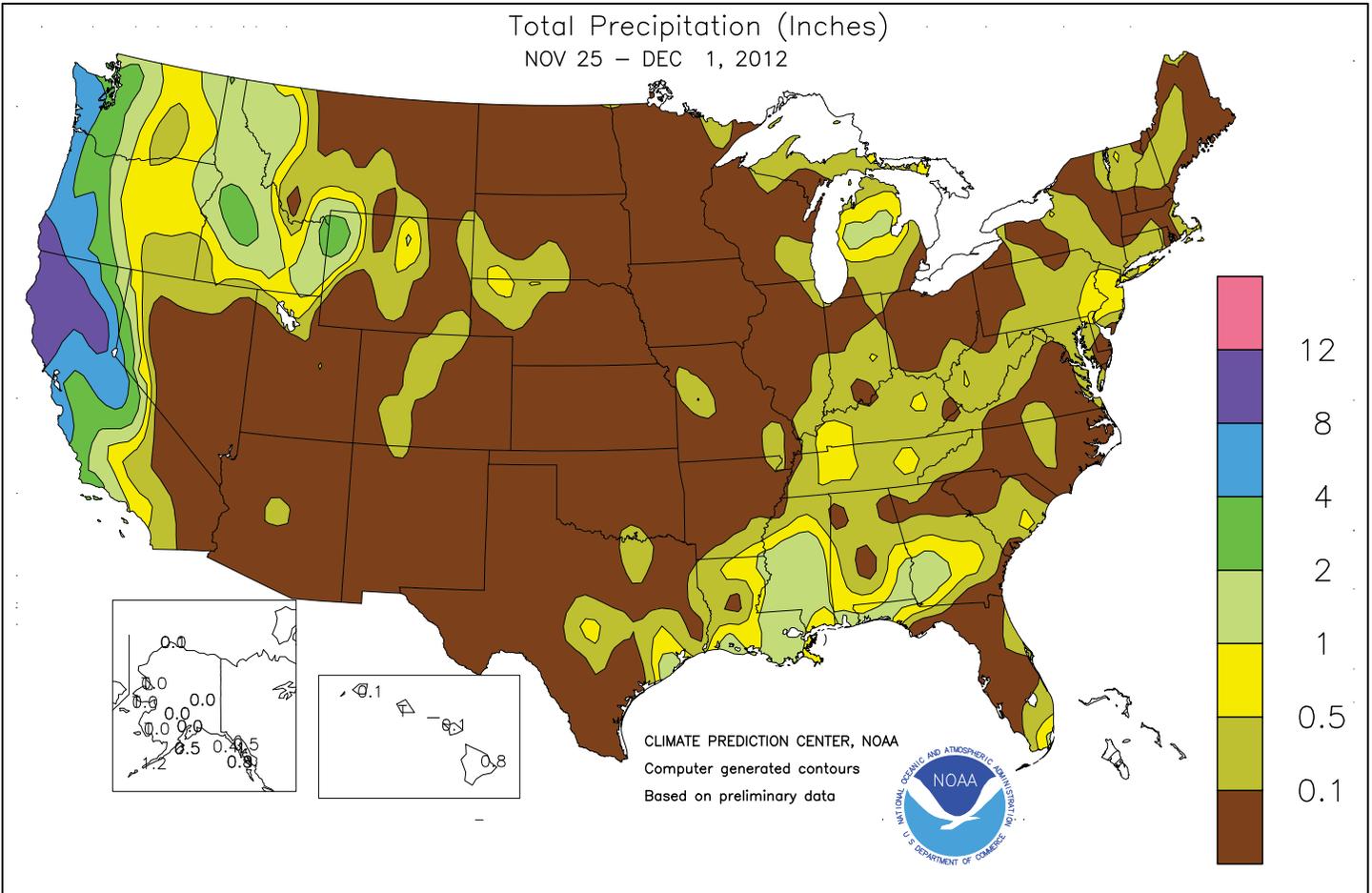


# WEEKLY WEATHER AND CROP BULLETIN



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 25 - December 1, 2012

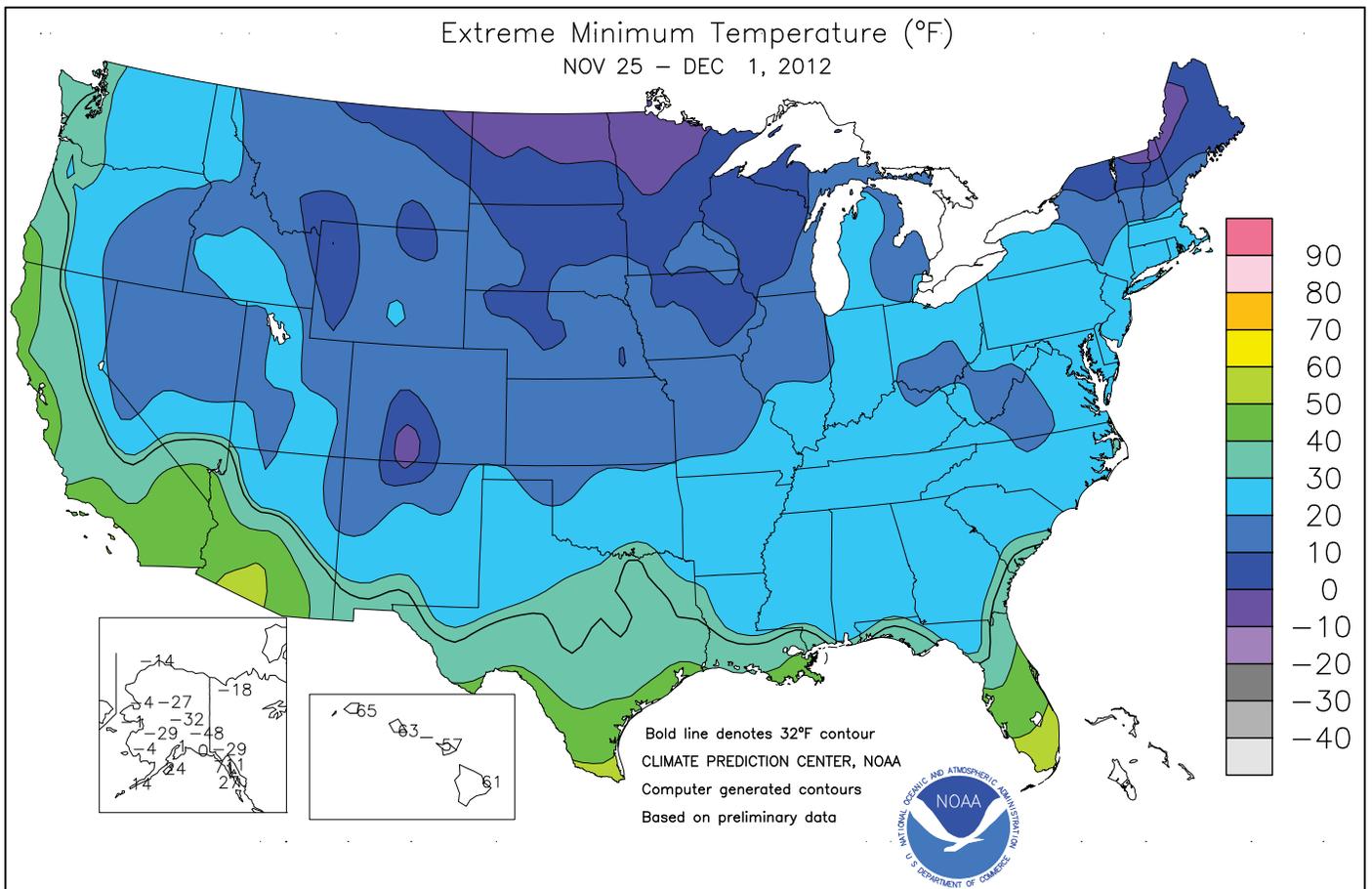
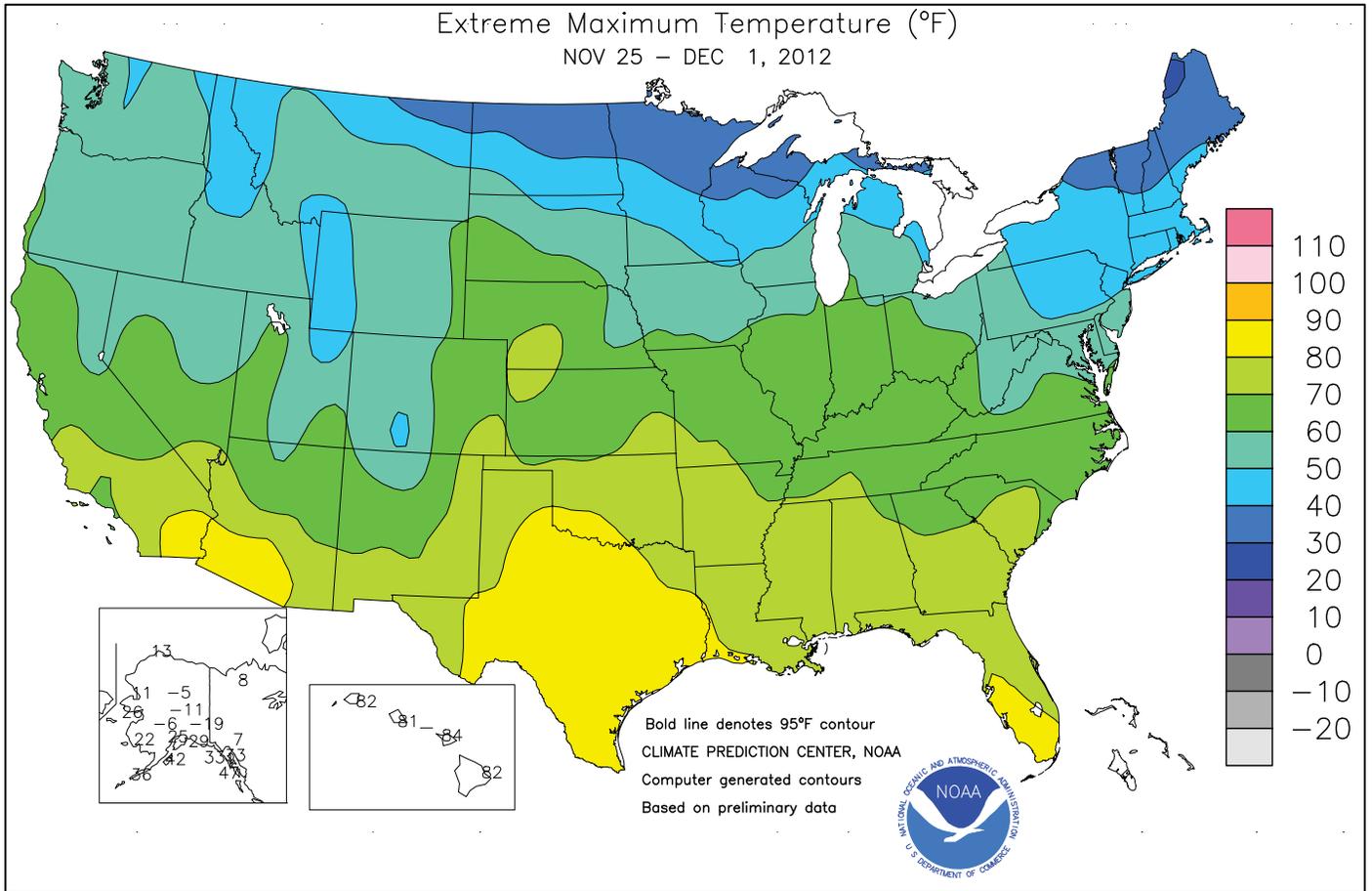
*Highlights provided by USDA/WAOB*

Multiple episodes of heavy precipitation hammered **northern California** and portions of the **Pacific Northwest**, boosting weekly totals to at least 8 to 12 inches in many locations. By December 2, the **Sierra Nevada** snow pack contained an average of 5 inches of liquid, approximately 91 percent of normal for this time of year. At lower elevations of **northern California**, heavy rain caused some flash flooding and halted fieldwork, but provided much-needed moisture for rangeland, pastures, and winter grains. Farther inland, precipitation fell as far

*(Continued on page 3)*

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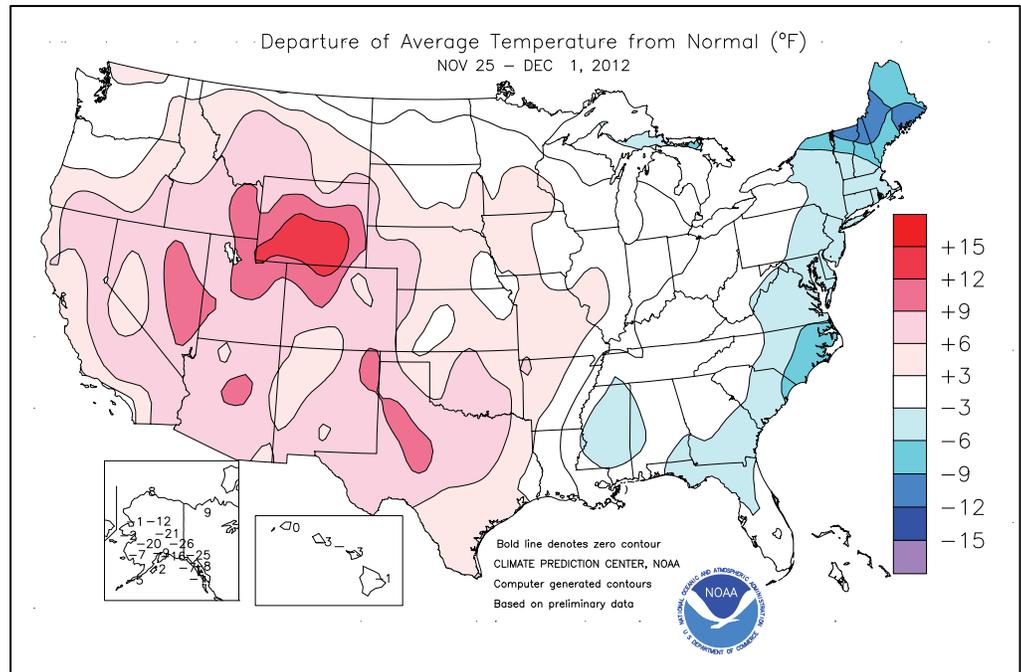
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(Continued from front cover)

east as the **northern Rockies** but bypassed the **Southwest**. In the latter region, late-season fieldwork included cotton harvesting in **Arizona**. Meanwhile on the **Plains**, mild, mostly dry weather maintained severe stress on rangeland, pastures, and winter wheat. In addition, late-week temperatures topped 80°F in much of **Texas** and **southwestern Oklahoma**. Elsewhere, cool conditions lingered for much of the week across the **South**, **East**, and **Midwest**. Light precipitation fell in some areas early in the week and again at week's end, although local totals in excess of an inch were confined to the **Deep South**. Remaining fieldwork in the **Southeast** included winter wheat planting and cotton and soybean harvesting.

Early in the week, snow squalls lingered downwind of the **Great Lakes**. **Sault Ste. Marie, MI**, received 16.4 inches of snow from November 25-29, including a daily-record total of 8.0 inches on the 26<sup>th</sup>. Flurries fell as far east as the **Mid-Atlantic States**, where **Wilmington, DE**, noted a trace of snow on November 25. However, many parts of the nation concluded a very dry November. In fact, records for November dryness were set in locations such as **Sanford, FL** (0.02 inch; previously, 0.05 inch in 1960); **South Bend, IN** (0.26 inch; previously, 0.37 inch in 1904 and 1917); **Hartford, CT** (0.40 inch; previously, 0.51 inch in 1976); and **Elkins, WV** (0.48 inch; previously, 0.73 inch in 1914). In **Texas**, **Austin (Camp Mabry)** received no November precipitation, not even a trace, for only the fourth time on record; the other occurrences were 1861, 1894, and 1897. Elsewhere in **Texas**, **Waco** (0.06 inches in October and November) completed its driest 2-month period since July-August 1924, when a only trace of rain fell. With a trace of rain, **Waco** also reported its driest November since 1903, when no precipitation occurred. Farther north, **Pittsburgh, PA** (0.28 inch), registered its driest November since 1917 and driest month since September 1985. In stark contrast, heavy precipitation struck parts of **northern California** and the **Northwest**. On November 29, daily-record totals included 4.14 inches in **Crescent City, CA**; 3.89 inches in **Mt. Shasta City, CA**; and 2.22 inches in **Medford, OR**. Five-day (November 28 - December 2) rainfall totals in those locations reached 7.97 inches in **Crescent City**, 9.36 inches in **Mt. Shasta City**, and 4.39 inches in **Medford**. A few 12- to 18-inch totals were noted during the 5-day period in the **Sierra Nevada**, **southern Cascades**, and coastal ranges of **northern California**. High-elevation snowfall, which averaged about 5 inches of liquid equivalency in the **Sierra Nevada**, was limited by the warm nature and high freezing levels associated with the **Pacific** storms.



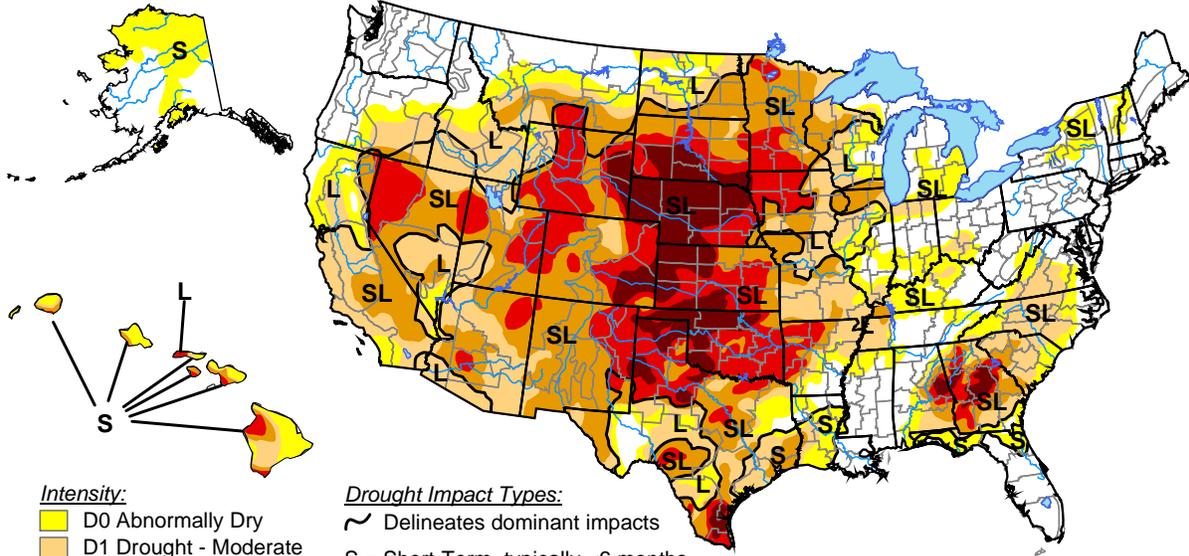
Although cold weather covered the **South** and **East** in late November, few records were set. In **northern Florida**, however, **Jacksonville** (30°F) recorded its first freeze of the autumn on November 25. **Jacksonville's** first freeze occurred 11 days earlier than the average date of December 6. Later, enough cold air settled across the **nation's mid-section** to produce a daily-record low (10°F on November 27) in **St. Joseph, MO**. Meanwhile, warmth expanded across the **western half of the nation**. In **western Texas**, **Lubbock** closed the week with three consecutive daily-record highs (78, 81, and 79°F) from November 29 - December 1. Elsewhere in **Texas**, **Corpus Christi** tallied consecutive daily-record highs (85 and 87°F, respectively) on November 30 - December 1. Other record-setting highs in **Texas** for December 1 included 86°F in **Childress** and 83°F in **Dallas-Ft. Worth, Houston, San Angelo, Waco, and Wichita Falls**. Farther west, daily-record highs for December 1 reached 71°F in **Winslow, AZ**, and 62°F in **Boise, ID**.

Cold, dry weather covered much of **Alaska**. Weekly temperatures averaged more than 20°F below normal at some interior locations, including **Fairbanks**. Temperatures dipped below -50°F on 3 consecutive days (November 29 - December 1) in **Chicken**, where the lowest reading was -56°F on December 1. Meanwhile in **Juneau**, weekly precipitation totaled 0.53 inch, but included 9.9 inches of snow. Farther south, an extremely dry November came to an end in **Hawaii**. With a monthly total of 0.58 inch (13 percent of normal), **Lihue, Kauai**, tied a November record for dryness originally set in 1963. At the state's major airport stations, autumn (September-November) rainfall ranged from 0.61 inch (16 percent of normal) at **Kahului, Maui**, to 13.31 inches (38 percent) at **Hilo, on the Big Island**. **Kahului** also collected consecutive daily-record lows (59 and 57°F, respectively) on November 30 and December 1.

# U.S. Drought Monitor

November 27, 2012

Valid 7 a.m. EST



Intensity:

- D0 Abnormally Dry
- D1 Drought - Moderate
- D2 Drought - Severe
- D3 Drought - Extreme
- D4 Drought - Exceptional

Drought Impact Types:

- ~ Delineates dominant impacts
- S = Short-Term, typically <6 months (e.g. agriculture, grasslands)
- L = Long-Term, typically >6 months (e.g. hydrology, ecology)

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



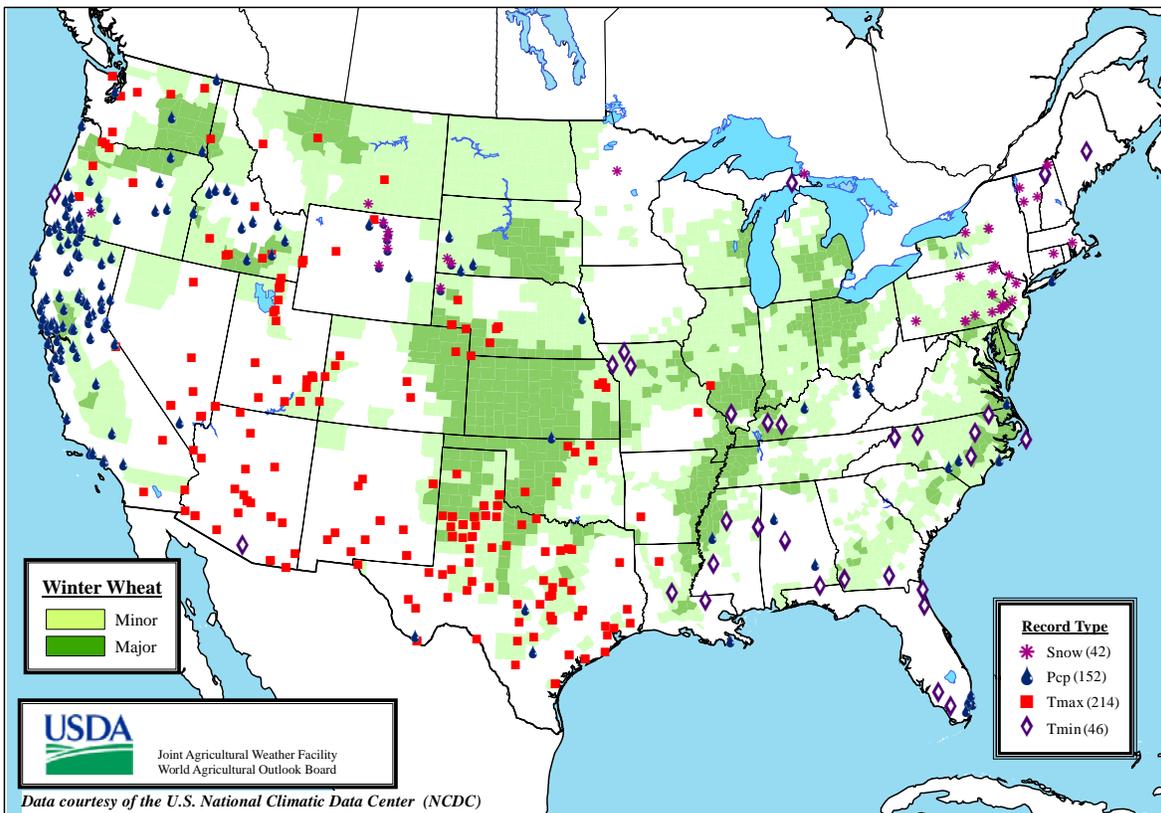
Released Thursday, November 29, 2012

Author: Eric Luebehusen, U.S. Department of Agriculture

<http://droughtmonitor.unl.edu/>

## Daily Weather Records (ASOS & COOP)

November 25-December 1, 2012



**Winter Wheat**

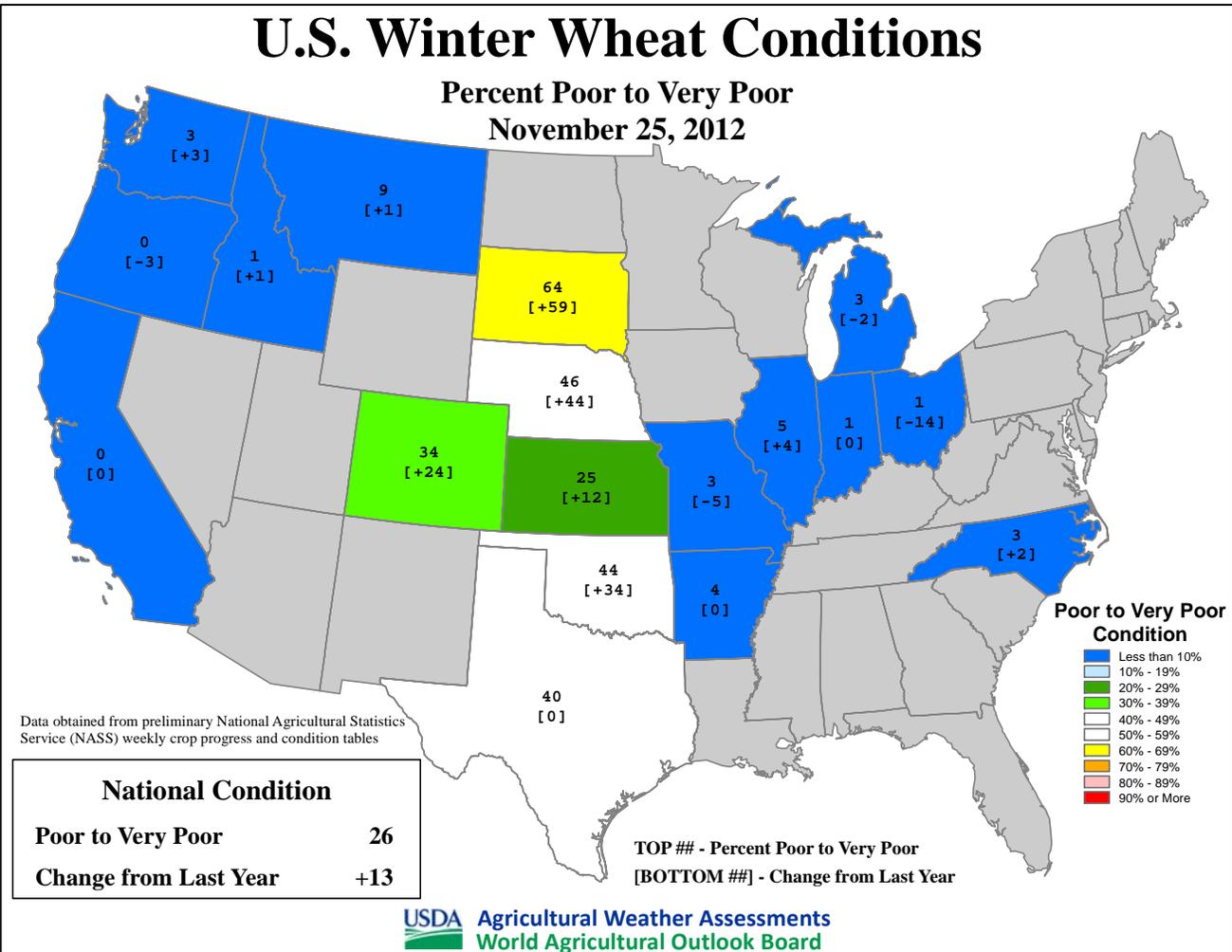
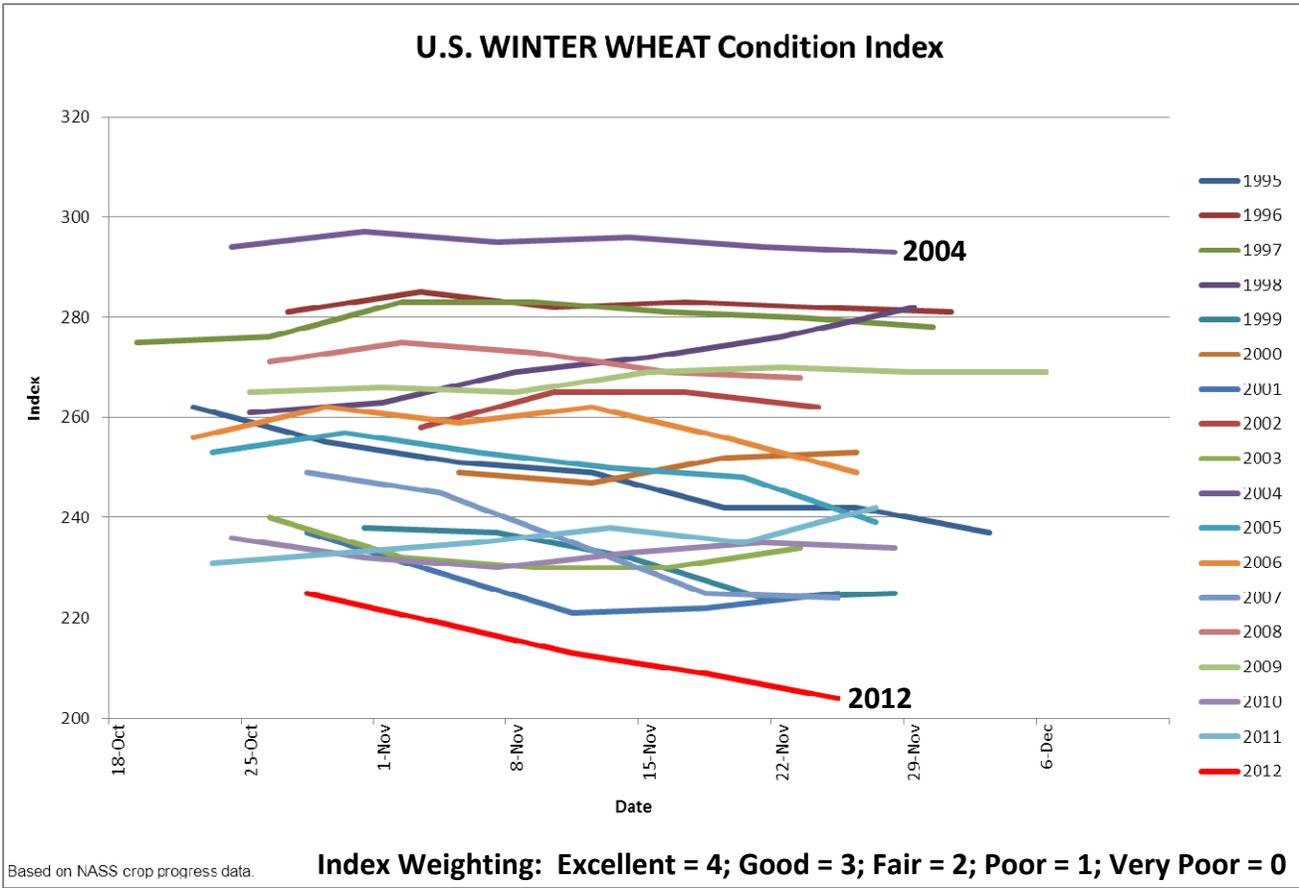
- Minor
- Major

**Record Type**

- Snow (42)
- Pcp (152)
- Tmax (214)
- Tmin (46)



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



National Weather Data for Selected Cities

Weather Data for the Week Ending December 1, 2012

Data Provided by Climate Prediction Center

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY PERCENT		NUMBER OF DAYS					
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN, SINCE DEC 1	PCT. NORMAL SINCE DEC 1	TOTAL, IN, SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	TEMP. °F		PRECIP	
																		.01 INCH OR MORE	.50 INCH OR MORE		
AL BIRMINGHAM	63	36	71	27	49	-1	0.34	-0.75	0.34	0.00	0	42.85	86	90	40	0	2	1	0	0	
HUNTSVILLE	62	34	71	26	48	0	0.18	-1.14	0.10	0.00	0	45.43	87	82	55	0	3	2	0	0	
MOBILE	68	42	75	29	55	-1	1.14	-0.16	1.14	0.00	0	65.62	106	90	66	0	1	1	1	0	
MONTGOMERY	67	37	76	24	52	-1	0.16	-1.08	0.16	0.00	0	36.43	73	86	44	0	3	1	0	0	
AK ANCHORAGE	19	3	25	1	11	-8	0.00	-0.22	0.00	0.00	0	19.68	131	79	67	0	7	0	0	0	
BARROW	9	-5	13	-14	2	8	0.06	0.04	0.04	0.04	400	6.25	155	92	78	0	7	2	0	0	
FAIRBANKS	-18	-28	-11	-32	-23	-21	0.00	-0.14	0.00	0.00	0	9.16	95	72	69	0	7	0	0	0	
JUNEAU	27	19	33	11	23	-8	0.51	-0.65	0.30	0.06	35	58.60	110	90	73	0	7	4	0	0	
KODIAK	37	31	42	24	34	2	0.54	-0.98	0.36	0.00	0	52.28	77	72	62	0	4	3	0	0	
NOME	19	3	26	-1	11	-2	0.02	-0.24	0.01	0.01	25	18.18	117	83	71	0	7	2	0	0	
AZ FLAGSTAFF	57	24	59	18	40	7	0.00	-0.41	0.00	0.00	0	12.80	61	86	26	0	7	0	0	0	
PHOENIX	79	55	84	53	67	9	0.00	-0.17	0.00	0.00	0	3.40	46	47	28	0	0	0	0	0	
PRESCOTT	66	33	68	31	50	9	0.00	-0.28	0.00	0.00	0	9.46	53	73	23	0	2	0	0	0	
TUCSON	78	48	82	46	63	8	0.00	-0.15	0.00	0.00	0	6.72	60	48	26	0	0	0	0	0	
AR FORT SMITH	66	39	76	28	52	6	0.00	-1.07	0.00	0.00	0	31.19	77	82	41	0	2	0	0	0	
LITTLE ROCK	62	36	76	29	49	1	0.14	-1.20	0.14	0.00	0	36.65	79	88	45	0	3	1	0	0	
CA BAKERSFIELD	71	47	74	41	59	8	0.07	-0.07	0.03	0.03	150	3.79	66	86	61	0	0	3	0	0	
FRESNO	66	49	69	42	57	8	0.82	0.57	0.62	0.09	225	8.04	81	86	76	0	0	3	1	0	
LOS ANGELES	66	57	68	53	62	2	1.02	0.72	0.67	0.03	75	6.11	54	92	82	0	0	4	1	0	
REDDING	61	46	71	37	54	6	2.25	1.31	0.84	0.08	62	26.48	91	91	80	0	0	4	3	0	
SACRAMENTO	63	47	65	38	55	6	3.08	2.56	1.88	0.70	1000	15.80	102	95	66	0	0	4	2	0	
SAN DIEGO	66	58	69	52	62	2	0.12	-0.12	0.12	0.00	0	4.47	47	89	74	0	0	1	0	0	
SAN FRANCISCO	63	54	67	47	58	6	3.14	2.55	2.00	0.79	988	16.05	93	89	77	0	0	4	2	0	
STOCKTON	63	46	67	36	55	6	1.74	1.33	1.39	0.19	317	9.50	79	98	87	0	0	3	1	0	
CO ALAMOSA	50	3	55	-3	27	4	0.00	-0.08	0.00	0.00	0	4.78	69	71	38	0	7	0	0	0	
CO SPRINGS	57	29	64	20	43	11	0.00	-0.06	0.00	0.00	0	7.84	46	52	16	0	5	0	0	0	
DENVER INTL	58	27	65	15	43	10	0.00	-0.09	0.00	0.00	0	9.84	74	56	22	0	4	0	0	0	
GRAND JUNCTION	55	26	59	18	40	7	0.00	-0.11	0.00	0.00	0	3.48	41	62	40	0	5	0	0	0	
PUEBLO	61	21	69	11	41	7	0.00	-0.08	0.00	0.00	0	4.70	39	52	35	0	6	0	0	0	
CT BRIDGEPORT	44	31	49	30	38	-3	0.43	-0.37	0.43	0.00	0	36.67	90	80	50	0	5	1	0	0	
HARTFORD	39	28	46	26	33	-4	0.08	-0.80	0.07	0.01	8	33.86	79	82	53	0	7	2	0	0	
DC WASHINGTON	50	34	56	31	42	-3	0.06	-0.63	0.06	0.00	0	29.44	81	77	45	0	2	1	0	0	
DE WILMINGTON	47	29	53	25	38	-4	0.61	-0.16	0.61	0.00	0	32.39	82	87	48	0	5	1	1	0	
FL DAYTONA BEACH	73	49	79	39	61	-3	0.00	-0.62	0.00	0.00	0	40.28	86	97	51	0	0	0	0	0	
JACKSONVILLE	69	43	76	30	56	-3	0.03	-0.52	0.02	0.01	13	51.11	103	95	52	0	2	2	0	0	
KEY WEST	76	66	79	59	71	-3	0.03	-0.45	0.03	0.00	0	46.34	126	92	67	0	0	1	0	0	
MIAMI	80	64	81	55	72	-1	0.30	-0.30	0.25	0.04	50	86.47	153	86	51	0	0	3	0	0	
ORLANDO	76	52	79	44	64	-2	0.00	-0.55	0.00	0.00	0	39.81	86	91	63	0	0	0	0	0	
PENSACOLA	67	47	72	35	57	-1	0.89	-0.08	0.89	0.00	0	64.54	107	89	62	0	0	1	1	0	
TALLAHASSEE	70	39	78	28	54	-4	0.10	-0.78	0.10	0.00	0	56.06	95	86	55	0	2	1	0	0	
TAMPA	77	54	79	46	66	-1	0.00	-0.48	0.00	0.00	0	53.79	126	83	45	0	0	0	0	0	
WEST PALM BEACH	79	64	80	52	72	1	0.18	-0.95	0.17	0.01	7	77.62	133	81	55	0	0	2	0	0	
GA ATHENS	62	34	69	27	48	-1	0.05	-0.78	0.05	0.00	0	31.50	71	86	58	0	4	1	0	0	
ATLANTA	62	39	68	30	51	1	0.02	-0.94	0.02	0.00	0	31.09	67	75	46	0	1	1	0	0	
AUGUSTA	64	32	71	25	48	-3	0.20	-0.35	0.20	0.00	0	31.40	76	92	63	0	5	1	0	0	
COLUMBUS	65	40	73	30	53	0	0.53	-0.49	0.53	0.00	0	29.98	68	86	36	0	2	1	1	0	
MACON	64	34	73	25	49	-3	0.41	-0.40	0.41	0.00	0	27.55	67	95	39	0	3	1	0	0	
SAVANNAH	66	39	74	32	52	-4	0.03	-0.47	0.03	0.00	0	38.30	82	92	69	0	2	1	0	0	
HI HILO	80	64	82	61	72	-1	0.79	-2.69	0.74	0.00	0	78.93	68	85	72	0	0	2	1	0	
HONOLULU	80	67	81	63	73	-3	0.02	-0.52	0.02	0.00	0	8.58	55	82	69	0	0	1	0	0	
KAHULUI	82	62	84	57	72	-3	0.05	-0.51	0.05	0.00	0	5.00	32	83	74	0	0	1	0	0	
LIHUE	80	68	82	65	74	-1	0.08	-0.99	0.08	0.00	0	36.80	105	74	68	0	0	1	0	0	
ID BOISE	51	34	59	26	43	8	0.26	-0.07	0.21	0.02	40	10.35	95	80	61	0	4	4	0	0	
LEWISTON	48	35	56	28	42	5	0.36	0.10	0.32	0.32	800	14.89	127	91	77	0	4	2	0	0	
POCATELLO	49	29	55	19	39	9	0.61	0.36	0.37	0.08	200	9.37	81	88	66	0	4	3	0	0	
IL CHICAGO/O'HARE	45	28	59	17	37	3	0.00	-0.67	0.00	0.00	0	24.71	73	74	51	0	5	0	0	0	
MOLINE	47	23	61	13	35	1	0.03	-0.55	0.03	0.03	38	24.61	69	81	64	0	7	1	0	0	
PEORIA	48	27	63	16	37	2	0.00	-0.70	0.00	0.00	0	25.10	74	80	50	0	5	0	0	0	
ROCKFORD	45	24	58	11	34	2	0.01	-0.58	0.01	0.01	13	20.86	60	82	54	0	6	1	0	0	
SPRINGFIELD	54	31	67	18	43	6	0.00	-0.66	0.00	0.00	0	26.78	81	76	41	0	3	0	0	0	
IN EVANSVILLE	54	30	65	22	42	0	0.09	-0.92	0.09	0.00	0	29.65	73	81	54	0	5	1	0	0	
FORT WAYNE	47	26	61	23	36	0	0.01	-0.68	0.01	0.00	0	26.38	78	88	53	0	7	1	0	0	
INDIANAPOLIS	50	30	64	23	40	2	0.00	-0.83	0.00	0.00	0	35.47	93	83	49	0	5	0	0	0	
SOUTH BEND	46	29	61	23	37	2	0.01	-0.79	0.01	0.01	9	31.27	85	75	54	0	6	1	0	0	
IA BURLINGTON	47	26	62	13	37	2	0.00	-0.60	0.00	0.00	0	22.42	62	82							

Weather Data for the Week Ending December 1, 2012

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION								RELATIVE HUMIDITY PERCENT		NUMBER OF DAYS			
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL IN., SINCE DEC 1	PCT. NORMAL SINCE DEC 1	TOTAL IN., SINCE 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	58	30	66	16	44	5	0.00	-0.36	0.00	0.00	0	24.70	85	85	61	0	5	0	0	
KY JACKSON	53	34	65	23	43	-1	0.12	-0.93	0.06	0.00	0	45.59	101	86	43	0	3	2	0	
KY LEXINGTON	51	31	63	22	41	-1	0.33	-0.56	0.31	0.00	0	36.07	86	83	59	0	4	2	0	
KY LOUISVILLE	54	34	66	27	44	0	0.08	-0.85	0.07	0.00	0	38.55	94	80	43	0	4	2	0	
LA PADUCAH	55	32	67	21	44	1	0.60	-0.56	0.60	0.00	0	26.14	58	85	44	0	4	1	1	
LA BATON ROUGE	70	41	77	31	56	0	0.45	-0.71	0.45	0.00	0	61.30	106	99	51	0	1	1	0	
LA LAKE CHARLES	72	47	80	36	60	3	0.69	-0.40	0.40	0.00	0	67.22	127	94	58	0	0	2	0	
LA NEW ORLEANS	68	48	76	40	58	-1	1.06	-0.24	0.73	0.04	21	63.19	107	93	66	0	0	3	1	
LA SHREVEPORT	69	41	79	31	55	3	0.08	-0.99	0.08	0.00	0	46.05	98	90	46	0	2	1	0	
ME CARIBOU	26	10	31	0	18	-7	0.03	-0.69	0.02	0.00	0	36.13	105	82	51	0	7	2	0	
ME PORTLAND	36	22	45	20	29	-5	0.01	-1.03	0.01	0.01	7	46.15	111	74	44	0	7	1	0	
MD BALTIMORE	47	28	54	25	38	-4	0.21	-0.53	0.21	0.00	0	34.31	89	86	66	0	6	1	0	
MA BOSTON	39	31	46	28	35	-6	0.18	-0.70	0.15	0.03	25	30.83	79	75	46	0	5	2	0	
MA WORCESTER	36	27	42	22	31	-4	0.25	-0.66	0.16	0.09	69	40.43	89	86	48	0	7	2	0	
MI ALPENA	34	24	42	19	29	-1	0.53	0.10	0.33	0.33	550	25.40	95	87	70	0	7	4	0	
MI GRAND RAPIDS	43	30	60	20	36	2	0.03	-0.77	0.02	0.02	18	30.90	89	77	56	0	5	2	0	
MI HOUGHTON LAKE	34	25	44	23	29	-2	0.62	0.17	0.52	0.52	867	30.76	115	87	76	0	7	2	1	
MI LANSING	42	27	58	19	35	2	0.03	-0.59	0.01	0.01	11	26.43	90	79	61	0	6	3	0	
MI MUSKOGON	43	32	58	26	38	4	0.12	-0.60	0.10	0.10	100	28.64	94	70	61	0	4	3	0	
MI TRAVERSE CITY	37	27	51	24	32	-1	0.21	-0.38	0.16	0.16	200	29.04	94	89	61	0	6	3	0	
MN DULUTH	27	17	36	2	22	0	0.13	-0.26	0.09	0.04	80	33.71	112	86	77	0	7	2	0	
MN INT'L FALLS	23	10	35	0	17	-1	0.10	-0.14	0.04	0.00	0	24.00	103	88	73	0	7	4	0	
MN MINNEAPOLIS	36	23	48	10	30	3	0.00	-0.33	0.00	0.00	0	27.98	98	83	64	0	6	0	0	
MN ROCHESTER	39	21	50	9	30	5	0.01	-0.36	0.01	0.01	20	23.11	76	78	60	0	5	1	0	
MN ST. CLOUD	33	18	44	3	26	3	0.00	-0.23	0.00	0.00	0	23.43	89	85	65	0	7	0	0	
MS JACKSON	65	34	73	26	50	-2	0.86	-0.38	0.57	0.00	0	60.80	120	94	50	0	3	2	1	
MS MERIDIAN	64	33	72	26	48	-5	0.57	-0.67	0.55	0.00	0	53.76	100	96	75	0	5	2	1	
MS TUPELO	61	30	71	25	45	-3	0.28	-1.06	0.28	0.00	0	42.69	85	87	65	0	4	1	0	
MO COLUMBIA	55	31	67	16	43	5	0.00	-0.77	0.00	0.00	0	29.02	77	79	46	0	3	0	0	
MO KANSAS CITY	54	30	66	14	42	5	0.00	-0.50	0.00	0.00	0	20.94	57	77	44	0	4	0	0	
MO SAINT LOUIS	56	34	70	22	45	5	0.00	-0.86	0.00	0.00	0	30.30	84	68	46	0	3	0	0	
MO SPRINGFIELD	58	34	70	20	46	5	0.04	-1.01	0.03	0.01	7	29.85	71	81	58	0	3	2	0	
MT BILLINGS	47	31	61	20	39	9	0.32	0.18	0.30	0.00	0	6.87	49	76	53	0	4	2	0	
MT BUTTE	38	17	48	1	27	5	0.14	0.03	0.05	0.05	250	8.80	72	89	51	0	6	3	0	
MT CUT BANK	43	18	53	15	31	6	0.00	-0.08	0.00	0.00	0	8.30	68	92	54	0	7	0	0	
MT GLASGOW	28	14	33	8	21	-1	0.01	-0.04	0.01	***	***	12.94	119	92	86	0	6	1	0	
MT GREAT FALLS	48	29	57	18	38	10	0.03	-0.08	0.03	0.00	0	12.57	88	78	44	0	5	1	0	
MT HAVRE	33	15	39	6	24	0	0.10	0.02	0.07	0.00	0	12.44	114	92	85	0	7	2	0	
MT MISSOULA	39	26	49	18	33	5	0.50	0.28	0.25	0.25	833	13.94	110	90	79	0	5	2	0	
NE GRAND ISLAND	51	22	62	14	37	6	0.04	-0.22	0.04	0.00	0	10.13	40	87	59	0	6	1	0	
NE LINCOLN	49	18	58	8	34	1	0.00	-0.30	0.00	0.00	0	17.63	64	86	61	0	7	0	0	
NE NORFOLK	47	19	59	11	33	3	0.00	-0.26	0.00	0.00	0	13.37	51	83	59	0	7	0	0	
NE NORTH PLATTE	56	17	71	9	37	7	0.05	-0.06	0.05	0.00	0	9.67	50	87	40	0	7	1	0	
NE OMAHA	46	24	57	15	35	3	0.01	-0.34	0.01	0.01	20	20.77	71	83	63	0	7	1	0	
NE SCOTTSBLUFF	56	25	67	15	41	11	0.04	-0.12	0.03	0.01	50	10.86	69	78	52	0	5	2	0	
NE VALENTINE	47	19	63	6	33	5	0.36	0.24	0.25	0.00	0	10.37	54	88	71	0	6	2	0	
NV ELY	54	28	58	13	41	11	0.00	-0.09	0.00	0.00	0	10.54	111	68	41	0	4	0	0	
NV LAS VEGAS	69	51	72	45	60	9	0.00	-0.06	0.00	0.00	0	4.81	117	47	34	0	0	0	0	
NV RENO	56	33	60	25	45	8	0.64	0.45	0.42	0.00	0	3.66	55	66	48	0	4	2	0	
NV WINNEMUCCA	54	26	58	12	40	7	0.10	-0.07	0.08	0.00	0	4.17	55	80	55	0	5	2	0	
NH CONCORD	36	21	43	17	28	-5	0.08	-0.68	0.08	0.08	73	34.17	98	82	46	0	7	1	0	
NJ NEWARK	44	32	50	29	38	-4	0.46	-0.44	0.46	0.00	0	31.28	73	78	49	0	4	1	0	
NM ALBUQUERQUE	61	32	66	27	47	7	0.00	-0.09	0.00	0.00	0	5.34	59	54	22	0	6	0	0	
NY ALBANY	39	25	46	20	32	-3	0.07	-0.63	0.05	0.05	50	32.99	93	86	56	0	7	3	0	
NY BINGHAMTON	35	27	41	24	31	-2	0.23	-0.56	0.07	0.00	0	34.23	96	84	66	0	7	6	0	
NY BUFFALO	40	28	53	25	34	-2	0.22	-0.72	0.15	0.00	0	29.14	79	84	58	0	7	3	0	
NY ROCHESTER	40	29	49	26	35	-1	0.06	-0.61	0.05	0.00	0	30.53	97	79	61	0	7	2	0	
NY SYRACUSE	40	29	47	25	34	-1	0.26	-0.63	0.15	0.00	0	27.56	74	84	60	0	6	3	0	
NC ASHEVILLE	58	28	63	21	43	0	0.00	-0.85	0.00	0.00	0	39.91	91	85	61	0	6	0	0	
NC CHARLOTTE	60	30	66	21	45	-4	0.03	-0.67	0.03	0.00	0	29.85	74	85	38	0	4	1	0	
NC GREENSBORO	57	30	65	21	44	-2	0.04	-0.65	0.04	0.00	0	34.05	85	85	33	0	5	1	0	
NC HATTERAS	56	37	63	31	46	-9	0.05	-0.94	0.05	0.00	0	51.28	96	90	46	0	2	1	0	
NC RALEIGH	59	31	67	23	45	-3	0.09	-0.58	0.09	0.00	0	37.85	94	82	56	0	5	1	0	
NC WILMINGTON	61	32	68	29	47	-7	0.10	-0.73	0.10	0.00	0	45.86	86	94	35	0	4	1	0	
ND BISMARCK	33	12	43	4	23	1	0.00	-0.11	0.00	0.00	0	14.26	87	90	78	0	7	0	0	
ND DICKINSON	35	13	49	2	24	0	0.00	-0.08	0.00	0.00	0	10.17	63	91	64	0	7	0	0	
ND FARGO	32	16	42	0	24	4	0.00	-0.14	0.00	0.00	0	15.52	75	81	68	0	7	0	0	
ND GRAND FORKS	29	12	36	0	20	1	0.01	-0.13	0.01	0.00	0	16.80	88	87	70	0	7	1	0	
ND JAMESTOWN	32	14	43	3	23	2	0.00	-0.10	0.00	0.00	0	12.81	71	90	62	0	7	0	0	
ND WILLISTON	29	9	37	-1	19	0	0.01	-0.13	0.01	0.00	0	12.66	93	96	85	0	7	1	0	
OH AKRON-CANTON	44	27	57	22	36	-1	0.03	-0.71	0.02	0.00	0	33.72	95	81	53	0	5	2	0	
OH CINCINNATI	51	28	63	20	40	-1	0.06	-0.73	0.03	0.00	0	33.04	84	79	53	0	5	2	0	
OH CLEVELAND	44	28	57	23	36	-2	0.01	-0.82	0.01	0.00	0	40.70	114	83	53	0	6	1	0	
OH COLUMBUS	49	29	61	22	39	-1	0.00	-0.77	0.00	0.00	0	31.54	88	80	51	0	5	0	0	
OH DAYTON	48	30	60	22	39	1	0.00	-0.77	0.00	0.00	0	28.82	79	79	50	0	5	0	0	
OH MANSFIELD	45	27	58	20	36	0	0.01	-0.87	0.01	0.00	0	36.31	91	89	51	0	5	1	0	

Based on 1971-2000 normals

\*\*\* Not Available

Weather Data for the Week Ending December 1, 2012

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY PERCENT		NUMBER OF DAYS			
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL IN., SINCE DEC 1	PCT. NORMAL SINCE DEC 1	TOTAL IN., SINCE JAN 01	PCT. NORMAL SINCE JAN 01	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMP. °F		PRECIP	
																90 AND ABOVE	32 AND BELOW	0.1 INCH OR MORE	50 INCH OR MORE
OK TOLEDO	45	28	59	21	36	0	0.01	-0.65	0.01	0.01	11	28.20	92	79	52	0	5	1	0
OK YOUNGSTOWN	44	27	57	23	36	-1	0.10	-0.67	0.07	0.00	0	39.81	113	78	50	0	7	3	0
OK OKLAHOMA CITY	64	38	77	27	51	7	0.00	-0.44	0.00	0.00	0	28.81	85	80	41	0	2	0	0
OR TULSA	61	40	77	24	50	5	0.00	-0.75	0.00	0.00	0	27.88	70	75	55	0	2	0	0
OR ASTORIA	54	43	56	31	48	3	2.92	0.31	1.82	0.88	238	78.05	137	88	73	0	1	4	2
OR BURNS	43	25	49	17	34	5	0.50	0.22	0.42	0.04	100	8.61	92	90	75	0	6	4	0
OR EUGENE	49	39	59	32	44	2	1.52	-0.62	0.75	0.75	250	43.19	101	99	87	0	1	4	1
OR MEDFORD	55	42	61	36	48	7	3.57	2.83	2.05	0.81	736	22.02	141	96	68	0	0	4	3
OR PENDLETON	44	31	59	25	38	1	0.24	-0.13	0.21	0.21	420	13.47	119	99	83	0	5	3	0
OR PORTLAND	51	40	61	35	46	3	1.29	-0.13	0.72	0.72	360	43.33	137	86	69	0	0	4	1
OR SALEM	51	36	58	27	44	1	1.44	-0.19	0.78	0.78	339	47.63	141	96	85	0	2	4	1
PA ALLENTOWN	41	26	48	23	34	-4	0.27	-0.58	0.27	0.00	0	36.70	88	84	64	0	6	1	0
PA ERIE	43	31	56	28	37	-2	0.02	-0.92	0.02	0.00	0	34.79	89	72	55	0	4	1	0
PA MIDDLETOWN	43	26	49	22	35	-5	0.41	-0.44	0.41	0.00	0	41.41	111	91	53	0	6	1	0
PA PHILADELPHIA	46	32	51	28	39	-4	0.50	-0.27	0.50	0.00	0	31.52	81	81	50	0	5	1	1
PA PITTSBURGH	45	29	58	24	37	-1	0.01	-0.73	0.01	0.00	0	36.19	103	74	43	0	6	1	0
PA WILKES-BARRE	39	29	44	22	34	-4	0.30	-0.41	0.28	0.00	0	34.11	97	79	58	0	6	3	0
PA WILLIAMSPORT	43	29	47	24	36	-1	0.15	-0.68	0.15	0.00	0	30.62	79	82	58	0	6	1	0
RI PROVIDENCE	40	29	47	27	35	-5	0.33	-0.66	0.31	0.02	14	35.64	84	80	53	0	7	2	0
SC BEAUFORT	65	39	71	32	52	-3	0.08	-0.48	0.07	0.00	0	32.81	70	94	47	0	1	2	0
SC CHARLESTON	65	37	71	31	51	-4	0.30	-0.33	0.30	0.00	0	40.42	84	94	46	0	2	1	0
SC COLUMBIA	63	33	72	27	48	-3	0.07	-0.56	0.07	0.00	0	39.26	87	85	58	0	4	1	0
SC GREENVILLE	62	35	69	26	49	1	0.00	-0.85	0.00	0.00	0	33.05	71	79	34	0	3	0	0
SD ABERDEEN	37	13	52	3	25	2	0.00	-0.08	0.00	0.00	0	13.90	70	86	69	0	7	0	0
SD HURON	40	14	54	7	27	1	0.00	-0.12	0.00	0.00	0	18.56	90	90	53	0	7	0	0
SD RAPID CITY	47	22	63	13	34	5	0.19	0.13	0.18	0.00	0	11.11	68	88	59	0	6	2	0
SD SIOUX FALLS	41	18	55	12	30	5	0.00	-0.21	0.00	0.00	0	16.05	66	88	69	0	7	0	0
TN BRISTOL	54	26	64	19	40	-2	0.14	-0.66	0.09	0.00	0	42.16	111	93	41	0	6	2	0
TN CHATTANOOGA	60	33	68	26	46	-1	0.41	-0.79	0.31	0.00	0	45.21	91	91	69	0	5	2	0
TN KNOXVILLE	57	31	66	24	44	-2	0.33	-0.69	0.24	0.00	0	47.50	108	90	43	0	5	2	0
TN MEMPHIS	60	38	73	30	49	1	0.47	-1.04	0.47	0.00	0	33.18	67	80	42	0	2	1	0
TN NASHVILLE	58	32	69	24	45	-1	0.28	-0.85	0.21	0.00	0	41.12	94	88	41	0	4	2	0
TX ABILENE	71	46	81	32	59	10	0.00	-0.22	0.00	0.00	0	23.14	103	75	50	0	1	0	0
TX AMARILLO	66	31	75	19	48	7	0.00	-0.08	0.00	0.00	0	11.79	62	63	20	0	3	0	0
TX AUSTIN	75	45	84	30	60	4	0.00	-0.52	0.00	0.00	0	34.30	110	84	58	0	1	0	0
TX BEAUMONT	73	50	82	39	61	3	0.16	-0.97	0.13	0.00	0	57.76	105	98	56	0	0	2	0
TX BROWNSVILLE	81	60	86	54	71	6	0.01	-0.30	0.01	0.00	0	21.07	80	95	62	0	0	1	0
TX CORPUS CHRISTI	80	57	87	48	68	6	0.05	-0.28	0.05	0.00	0	18.79	62	83	57	0	0	1	0
TX DEL RIO	73	51	82	44	62	6	0.00	-0.17	0.00	0.00	0	13.83	79	83	56	0	0	0	0
TX EL PASO	72	39	75	36	55	6	0.00	-0.12	0.00	0.00	0	5.94	68	54	22	0	0	0	0
TX FORT WORTH	71	46	83	35	59	8	0.00	-0.50	0.00	0.00	0	29.30	91	85	39	0	0	0	0
TX GALVESTON	72	59	78	50	66	4	0.40	-0.47	0.40	0.00	0	44.27	109	97	70	0	0	1	0
TX HOUSTON	74	49	84	39	62	4	0.08	-0.81	0.08	0.00	0	39.49	89	96	59	0	0	1	0
TX LUBBOCK	72	34	81	22	53	9	0.00	-0.14	0.00	0.00	0	10.75	60	62	37	0	3	0	0
TX MIDLAND	74	40	80	31	57	9	0.00	-0.11	0.00	0.00	0	12.72	90	75	52	0	2	0	0
TX SAN ANGELO	75	47	83	33	61	11	0.00	-0.19	0.00	0.00	0	21.77	109	81	52	0	0	0	0
TX SAN ANTONIO	72	50	80	38	61	5	0.28	-0.19	0.16	0.00	0	39.07	126	94	57	0	0	2	0
TX VICTORIA	78	48	84	37	63	4	0.00	-0.55	0.00	0.00	0	26.69	71	91	60	0	0	0	0
TX WACO	73	45	84	26	59	6	0.00	-0.60	0.00	0.00	0	31.52	103	84	52	0	2	0	0
TX WICHITA FALLS	70	40	83	29	55	7	0.00	-0.33	0.00	0.00	0	19.20	71	81	48	0	2	0	0
UT SALT LAKE CITY	56	36	63	28	46	11	0.11	-0.18	0.10	0.01	25	11.48	75	84	44	0	4	2	0
VT BURLINGTON	33	20	37	8	27	-5	0.21	-0.43	0.14	0.02	22	32.72	96	79	56	0	7	3	0
VA LYNCHBURG	54	26	61	17	40	-3	0.06	-0.68	0.06	0.00	0	27.17	68	81	36	0	6	1	0
VA NORFOLK	54	33	62	28	43	-6	0.07	-0.57	0.07	0.00	0	43.85	102	86	44	0	4	1	0
VA RICHMOND	54	30	63	25	42	-4	0.12	-0.54	0.12	0.00	0	33.70	82	82	67	0	5	1	0
VA ROANOKE	56	32	62	25	44	0	0.06	-0.66	0.06	0.00	0	30.33	76	68	52	0	5	1	0
WA WASH/DULLES	48	27	55	23	37	-5	0.06	-0.68	0.06	0.00	0	32.75	84	84	71	0	6	1	0
WA OLYMPIA	49	36	55	28	42	2	2.12	0.12	1.26	0.67	239	50.28	116	97	90	0	3	4	2
WA QUILLAYUTE	52	40	54	31	46	4	3.64	0.08	1.29	1.29	258	102.05	116	93	85	0	2	4	3
WA SEATTLE-TACOMA	52	39	59	34	46	3	1.73	0.29	1.17	0.39	195	41.64	132	87	74	0	0	4	1
WA SPOKANE	42	31	50	26	37	6	0.48	-0.09	0.19	0.19	238	18.88	130	97	76	0	5	4	0
WA YAKIMA	44	29	54	21	37	4	0.09	-0.19	0.05	0.01	25	7.21	104	91	78	0	5	3	0
WV BECKLEY	49	28	58	19	39	-1	0.17	-0.53	0.11	0.00	0	41.18	107	77	51	0	5	2	0
WV CHARLESTON	53	28	64	22	41	-2	0.45	-0.42	0.34	0.00	0	36.64	90	85	42	0	6	2	0
WV ELKINS	48	23	61	17	35	-3	0.22	-0.61	0.22	0.00	0	42.23	99	88	41	0	6	1	0
WV HUNTINGTON	52	29	63	21	40	-2	0.27	-0.52	0.17	0.00	0	36.22	93	87	45	0	5	2	0
WI EAU CLAIRE	35	20	44	8	27	1	0.00	-0.36	0.00	0.00	0	22.38	72	88	58	0	6	0	0
WI GREEN BAY	36	24	49	11	30	1	0.11	-0.35	0.08	0.01	17	28.98	104	86	64	0	5	3	0
WI LA CROSSE	38	23	47	13	30	0	0.01	-0.41	0.01	0.01	17	24.72	79	83	56	0	5	1	0
WI MADISON	43	25	54	11	34	4	0.14	-0.36	0.14	0.14	200	23.91	76	77	61	0	5	1	0
WI MILWAUKEE	42	28	58	16	35	2	0.01	-0.60	0.01	0.01	11	25.43	78	75	57	0	5	1	0
WY CASPER	49	32	56	16	41	14	0.16	0.00	0.10	0.00	0	7.50	60	60	44	0	3	2	0
WY CHEYENNE	52	27	59	16	40	10	0.00	-0.13	0.00	0.00	0	9.73	65	47	28	0	6	0	0
WY LANDER	50	27	56	16	38	13	0.00	-0.18	0.00	0.00	0	6.20	48	70	33	0	6	0	0
WY SHERIDAN	40	16	55	2	28	2	0.62	0.48	0.54	0.00	0	9.61	68	91	80	0	7	2	1

Based on 1971-2000 normals

\*\*\* Not Available

# National Agricultural Summary

November 26 – December 2, 2012

Weekly National Agricultural Summary provided by USDA/NASS

Above-normal temperatures and dry weather continued throughout much of the United States during the week, promoting late-season harvest and field preparation. Most notably, much of the hard red winter wheat-producing region received less than 0.1 inch of moisture during the week. Elsewhere, storm systems brought beneficial moisture to much of the Pacific Coast, with most coastal areas of California, Oregon, and Washington receiving at least 2 inches of precipitation during the week.

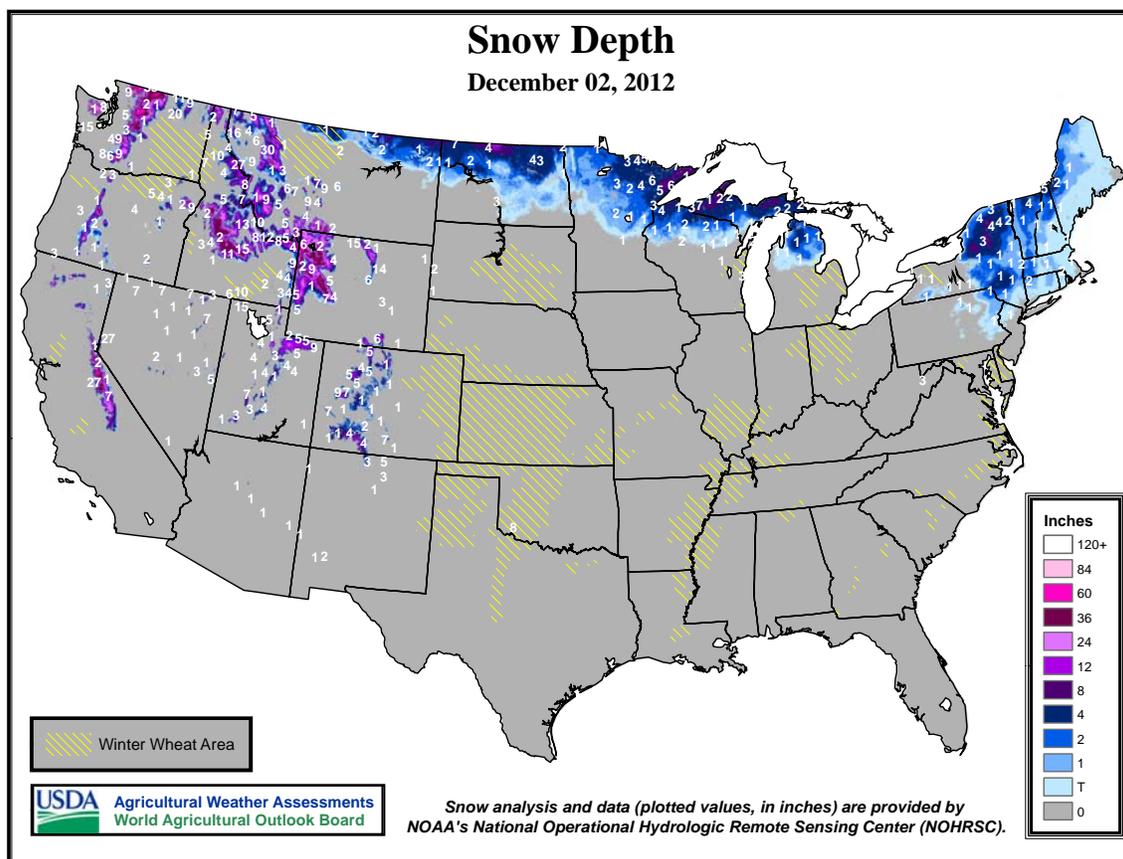
Dry weather in Virginia benefited producers trying to wrap up their cotton and soybean harvests during the week; however, ongoing dryness caused further depletion of soil moisture. Most overwintered small grains have been sown. Producer activity during the week included fertilizer, herbicide, and lime applications; taking soil samples; and winter maintenance.

With the exception of a few spotty showers, Florida's weather was mostly dry during the week. Soil moisture levels dropped to 57 percent very short to short, compared with 38 percent last week and 32 percent last year at this time. Sugarcane harvest advanced at a normal pace, while cotton harvesting continued in Gadsden and Santa Rosa Counties. Despite evidence of drought stress in some fields, producers in some locations seeded small grain crops during the week. Cool weather slowed vegetable harvest. In the citrus region, several weeks of dryness led to heavy irrigation in hopes of keeping an abundant fruit set healthy and growing.

Mild weather and scattered showers allowed producers in Louisiana more than 5 days to complete fieldwork during the week. Sugarcane harvest was reported as being 83 percent complete, with 62 percent of the crop in good to excellent condition. The state's sweet potato harvest was complete, while the pecan harvest neared completion. Strawberry fields were irrigated and sprayed with fungicide. Citrus producers continued to sell fruit.

Warm, dry weather favored late-season fieldwork in Arizona during the week, as producers harvested alfalfa hay and cotton. Conversely, persistently dry weather left range and pasture conditions rated 57 percent very poor to poor, as sheep were moved to alfalfa fields across the state for winter grazing. Vegetable producers shipped a variety of crops, including arugula, broccoli, cabbage, cantaloupes, herbs, and an assortment of lettuces.

A series of storm systems delivered above-average precipitation to much of California during the week, with total accumulations in northern areas of the state reaching 6 inches or more. Small grain seeding was virtually complete, while the moisture aided recently emerged fields. As conditions permitted, cotton stubble was plowed under to help control pink bollworm. A variety of fruit and nut crops were harvested during the week. Stone fruit and nut orchards were pruned, while vegetable producers planted winter vegetables and cultivated fields.



## International Weather and Crop Summary

**November 25 - December 1, 2012**

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

**EUROPE:** Stormy weather returned to the continent, boosting soil moisture for winter crops but hampering late-season fieldwork.

**FSU-WESTERN:** Dry, warmer-than-normal conditions further reduced soil moisture in key southern winter wheat districts.

**MIDDLE EAST:** Moderate to heavy rain persisted across central and southern growing areas, while soil moisture declined in central and western Turkey.

**NORTHWEST AFRICA:** Above-normal rainfall persisted, increasing moisture reserves for winter grains but hampering fieldwork.

**EAST ASIA:** Cool weather during the latter half of the period eased more winter wheat into dormancy.

**SOUTHEAST ASIA:** Drier weather reduced moisture supplies for rice in Java, Indonesia.

**AUSTRALIA:** Wet weather slowed winter grain harvesting in Western and southeastern Australia, while hot, dry weather increased irrigation requirements for summer crops.

**SOUTH AFRICA:** Mild, showery weather maintained generally favorable conditions for rain-fed summer crops.

**ARGENTINA:** Wet weather sustained delays in summer crop planting and kept winter grains unfavorably wet.

**BRAZIL:** Widespread, locally heavy showers benefited soybeans, cotton, and other crops throughout central Brazil.

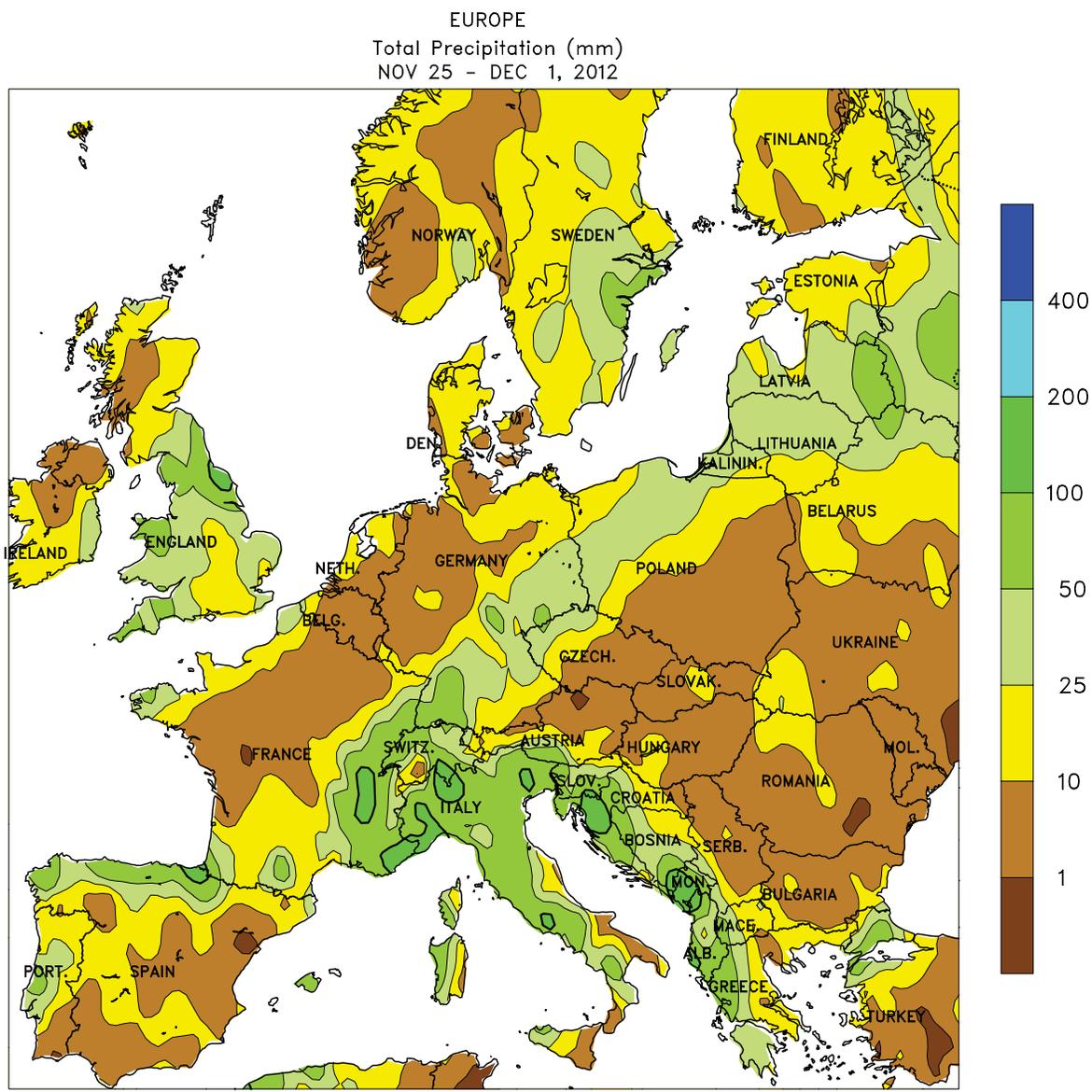
## November 2012

COUNTRY	CITY	TEMPERATURE (C)					PRECIP. (MM)		
		AVG MAX	AVG MIN	HI MAX	LO MIN	AVG	DEP NRM	TOT	DEP NRM
ALGERI	ALGER	21	12	31	6	17	1.8	87	5
	BATNA	19	6	29	-1	13	2.1	18	1
ARGENT	IGUAZU	31	19	37	16	25	1.3	95	-42
	FORMOSA	33	20	41	15	26	1.6	159	-10
	CERES	31	17	38	13	24	2.2	106	5
	CORDOBA	29	14	36	10	22	0.9	74	-36
	RIO CUARTO	27	15	36	10	21	1.1	173	41
	ROSARIO	28	17	35	11	23	2.1	99	-11
	BUENOS AIRES	27	15	35	9	21	2.1	67	-26
	SANTA ROSA	27	13	34	6	20	1	103	7
	TRES ARROYOS	25	16	34	8	21	4.1	138	53
AUSTRA	DARWIN	33	27	35	24	30	0.7	117	-17
	BRISBANE	26	21	30	13	23	0.9	186	79
	PERTH	26	13	36	8	19	0.1	85	59
	CEDUNA	26	14	43	5	20	0.8	8	-12
	ADELAIDE	25	15	35	7	20	1.5	4	-17
	MELBOURNE	23	12	39	5	17	1.7	46	-4
	WAGGA	28	13	39	6	21	2.9	57	16
	CANBERRA	25	10	35	1	18	2	30	-36
AUSTRI	VIENNA	9	5	15	-2	7	2.5	19	-27
	INNSBRUCK	10	1	17	-3	6	2.5	58	-8
BAHAMA	NASSAU	27	20	28	16	24	-0.8	23	-45
BARBAD	BRIDGETOWN	31	25	31	22	28	0.8	56	-76
BELARU	MINSK	5	2	10	-1	4	3.4	61	12
BERMUD	ST GEORGES	24	20	25	16	22	-0.1	138	47
BOLIVI	LA PAZ	17	3	21	0	10	0.5	70	16
BRAZIL	FORTALEZA	30	25	31	22	28	-0.6	1	-25
	RECIFE	29	24	30	22	27	-1.9	8	-20
	CAMPO GRANDE	31	22	34	19	27	1	102	-49
	FRANCA	29	19	32	16	24	1.1	185	32
	RIO DE JANEIRO	27	22	38	18	25	-0.5	164	65
	LONDRINA	31	19	35	15	25	2.3	107	-62
	SANTA MARIA	30	18	36	13	24	2.1	73	-50
	TORRES	25	18	27	13	21	-1.6	31	-110
BULGAR	SOFIA	12	5	19	-1	8	3.6	11	-32
BURKIN	OUAGADOUGOU	38	23	40	20	30	2.5	0	-3
CANADA	TORONTO	7	0	20	-6	4	0.4	10	-59
	MONTREAL	5	-4	19	-14	1	-1.1	14	-78
	WINNIPEG	-2	-10	5	-26	-6	-0.9	48	26
	REGINA	-3	-12	8	-25	-7	-1.9	0	-13
	SASKATOON	-5	-12	5	-23	-8	-2.1	0	-13
	LETHBRIDGE	-13	-19	9	-31	-16	-14.8	3	-14
	CALGARY	1	-8	11	-20	-4	-0.8	22	10
	EDMONTON	-4	-11	10	-20	-7	-3.2	22	7
	VANCOUVER	10	5	15	-1	7	1.2	163	-17
CANARY	LAS PALMAS	25	19	29	17	22	1.3	17	0
CHILE	SANTIAGO	27	11	32	9	19	1.8	0	-5
CHINA	HARBIN	-1	-9	7	-23	-5	0.1	32	22
	HAMI	5	-7	17	-14	-1	-1.1	5	4
	BEIJING	9	0	16	-5	5	0	79	72
	TIENTSIN	10	1	18	-4	5	-0.6	59	49
	LHASA	13	-3	18	-7	5	1.5	0	-1
	KUNMING	21	8	23	4	15	2.8	9	-33
	CHENGCHOW	14	4	20	-2	9	1	11	-11
	YEHCHANG	15	9	22	4	12	-0.5	30	-16
	HANKOW	15	6	21	1	11	-1.5	31	-17
	CHUNGKING	16	12	25	7	14	-0.6	32	-16
	CHIHKIANG	14	9	24	6	12	-0.9	102	49
	WU HU	15	8	23	3	11	-0.3	74	15
	SHANGHAI	16	9	20	2	12	-1.2	120	67
	NANCHANG	16	10	22	5	13	-0.6	187	131
	TAIPEI	24	20	29	14	22	0.2	256	183
	CANTON	23	16	30	10	20	0	171	136
	NANNING	23	17	32	10	20	0.7	60	19
COLOMB	BOGOTA	20	8	22	2	14	0.6	55	-32
COTE D	ABIDJAN	31	25	32	22	28	0.2	168	36
CUBA	HAVANA	26	15	28	9	21	-3.1	12	-74
CYPRUS	LARNACA	24	15	31	11	20	2.6	58	4
CZECHR	PRAGUE	7	2	14	-4	5	2	47	17
DENMAR	COPENHAGEN	8	5	11	-1	7	1.8	45	1

Based on Preliminary Reports

## November 2012

COUNTRY	CITY	TEMPERATURE					PRECIP.			COUNTRY	CITY	TEMPERATURE					PRECIP.										
		(C)					(MM)					(C)					(MM)										
		AVG	AVG	HI	LO	DEP	TOT	DEP			AVG	AVG	HI	LO	DEP	TOT	DEP				AVG	AVG	HI	LO	DEP	TOT	DEP
		MAX	MIN	MAX	MIN	AVG	NRM	NRM			MAX	MIN	MAX	MIN	AVG	NRM	NRM				MAX	MIN	MAX	MIN	AVG	NRM	NRM
EGYPT	CAIRO	26	17	32	14	22	2.4	0	-5																		
	ASWAN	31	18	39	14	25	3.3	0	0																		
ESTONI	TALLINN	5	2	9	-6	3	2.3	68	0																		
ETHIOP	ADDIS ABABA	23	11	26	8	17	1.2	0	-8																		
F GUIA	CAYENNE	33	22	33	20	27	1.1	84	-70																		
FIJI	NAUSORI	28	22	31	18	25	0.4	207	-36																		
FINLAN	HELSINKI	5	2	8	-5	3	3.0	47	-24																		
FRANCE	PARIS/ORLY	10	5	14	-1	7	0.0	37	-12																		
	STRASBOURG	10	4	20	-2	7	2.0	72	24																		
	BOURGES	11	5	15	1	8	1.5	59	-4																		
	BORDEAUX	15	7	20	-3	11	1.8	75	-30																		
	TOULOUSE	14	7	20	-1	11	1.7	38	-11																		
	MARSEILLE	17	9	21	5	13	2.5	101	51																		
GABON	LIBREVILLE	29	24	30	22	27	0.8	291	-231																		
GERMAN	HAMBURG	8	4	12	-1	6	0.9	30	-39																		
	BERLIN	8	4	12	-2	6	1.4	53	9																		
	DUSSELDORF	10	5	14	0	7	0.7	37	-25																		
	LEIPZIG	8	3	14	-3	6	1.4	50	15																		
	DRESDEN	8	4	11	-1	6	1.5	68	25																		
	STUTTGART	9	4	18	-1	6	2.0	116	70																		
	NURNBERG	8	3	15	-2	5	1.4	75	31																		
	AUGSBURG	8	3	17	-1	5	1.9	65	14																		
GREECE	THESSALONIKA	18	10	22	3	14	3.4	43	-15																		
	LARISSA	18	9	27	2	13	2.9	73	2																		
	ATHENS	21	14	27	8	17	2.3	60	-8																		
GUADEL	RAIZET	31	23	32	20	27	0.6	61	-135																		
HONGKO	HONG KONG INT	25	21	30	13	23	1.5	62	26																		
HUNGAR	BUDAPEST	11	5	19	1	8	3.4	15	-34																		
ICELAN	REYKJAVIK	***	***	6	-1	***	****	****	****																		
INDIA	AMRITSAR	27	9	30	6	18	0.3	0	-7																		
	NEW DELHI	27	12	31	9	20	-0.7	2	-6																		
	AHMEDABAD	32	15	34	11	24	-1.1	0	-10																		
	INDORE	29	14	31	11	21	-0.6	0	-15																		
	CALCUTTA	29	19	33	13	24	-0.1	44	7																		
	VERAVAL	33	19	36	16	26	-0.1	0	-26																		
	BOMBAY	33	19	35	15	26	-1.1	0	-6																		
	POONA	31	15	33	8	23	0.5	1	-26																		
	BEGAMPET	30	18	33	12	24	0.8	39	10																		
	VISHAKHAPATNAM	30	22	32	19	26	0.1	221	120																		
	MADRAS	32	23	35	17	27	0.9	58	-297																		
	MANGALORE	32	22	34	19	27	-0.5	98	32																		
INDONE	SERANG	33	24	34	23	28	0.3	53	-97																		
IRELAN	DUBLIN	9	4	14	-2	7	-0.7	73	8																		
ITALY	MILAN	13	7	18	3	10	2.9	160	84																		
	VERONA	14	7	17	2	11	3.8	148	83																		
	VENICE	14	8	25	2	11	3.1	107	37																		
	GENOA	16	12	20	8	14	1.4	315	212																		
	ROME	19	11	23	6	15	2.8	83	-13																		
	NAPLES	20	13	25	8	16	3.8	114	-25																		
JAMAIC	KINGSTON	31	25	33	23	28	0.7	43	-46																		
JAPAN	SAPPORO	8	4	14	-4	6	1.2	226	124																		
	NAGOYA	16	8	22	2	12	-0.1	80	0																		
	TOKYO	16	10	22	4	13	0.0	157	65																		
	YOKOHAMA	16	10	21	4	13	-0.4	178	80																		
	KYOTO	15	8	19	2	12	-0.9	121	58																		
	OSAKA	16	10	20	4	13	-0.6	124	60																		
KAZAKH	KUSTANAY	-1	-5	9	-26	-3	3.2	32	9																		
	TSELINOGRAD	-3	-8	8	-19	-5	1.2	42	17																		
	KARAGANDA	-3	-9	10	-20	-6	-0.3	58	31																		
KENYA	NAIROBI	26	15	28	12	21	1.3	54	-61																		
LIBYA	TRIPOLI	27	16	35	7	22	4.1	2	-47																		
	BENGHAZI	24	15	33	12	19	1.6	21	-21																		
LITHUA	KAUNAS	7	3	10	1	5	3.1	67	20																		
LUXEMB	LUXEMBOURG	7	4	12	0	6	1.7	63	-15																		
MALAYS	KUALA LUMPUR	33	25	35	24	29	2.0	445	157																		
MALI	BAMAKO	34	21	40	16	27	-0.1	5	0																		
MARSHA	MAJURO	30	27	32	26	28	1.0	557	236</																		



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



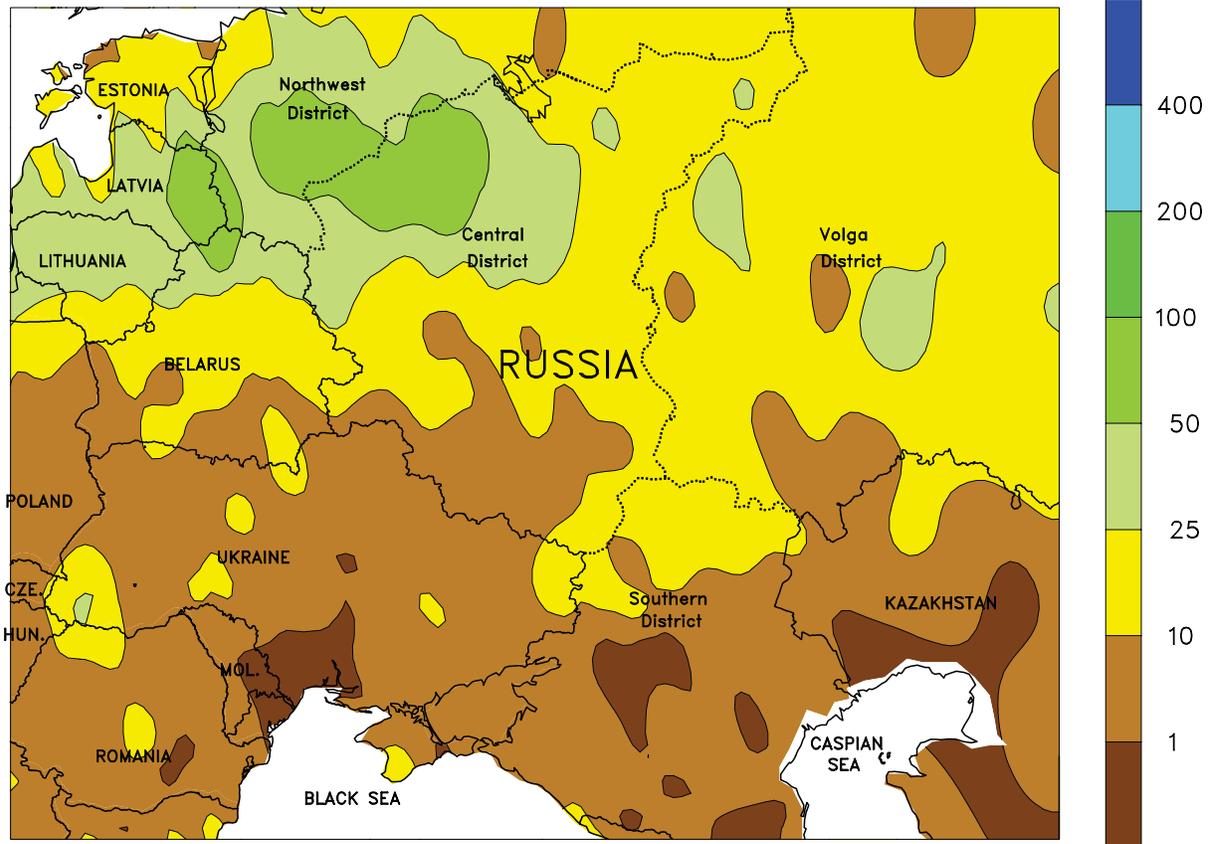
**EUROPE**

Stormy weather returned to the continent, with widespread rain and wet snow boosting moisture reserves for winter crops. However, heavy rain across England (25-110 mm) and Italy (50-150 mm) caused localized flooding and fieldwork delays, although reservoirs and other irrigation reserves in south-central Europe (including mountains snowpacks) continued to improve. Light to moderate rain (10-60 mm, locally more) fell from the northern Iberian Peninsula into northwestern Poland and the Baltic States, increasing soil moisture reserves for winter grains and

oilseeds. Precipitation ended as a period of moderate to heavy snow (5-35 cm) in southern and central Germany and southwestern Poland. Light to moderate showers (2-15 mm) returned to the Balkans, providing much-needed soil moisture for vegetative winter wheat. Temperatures averaged 2 to 7°C above normal across central and eastern portions of the continent, allowing winter grains and oilseeds to add late-season vegetative growth; however, crops in Poland, Germany, and northern portions of the United Kingdom were likely dormant.

For additional information contact: [mbrusberg@oce.usda.gov](mailto:mbrusberg@oce.usda.gov)

WESTERN FSU  
Total Precipitation (mm)  
NOV 25 - DEC 1, 2012



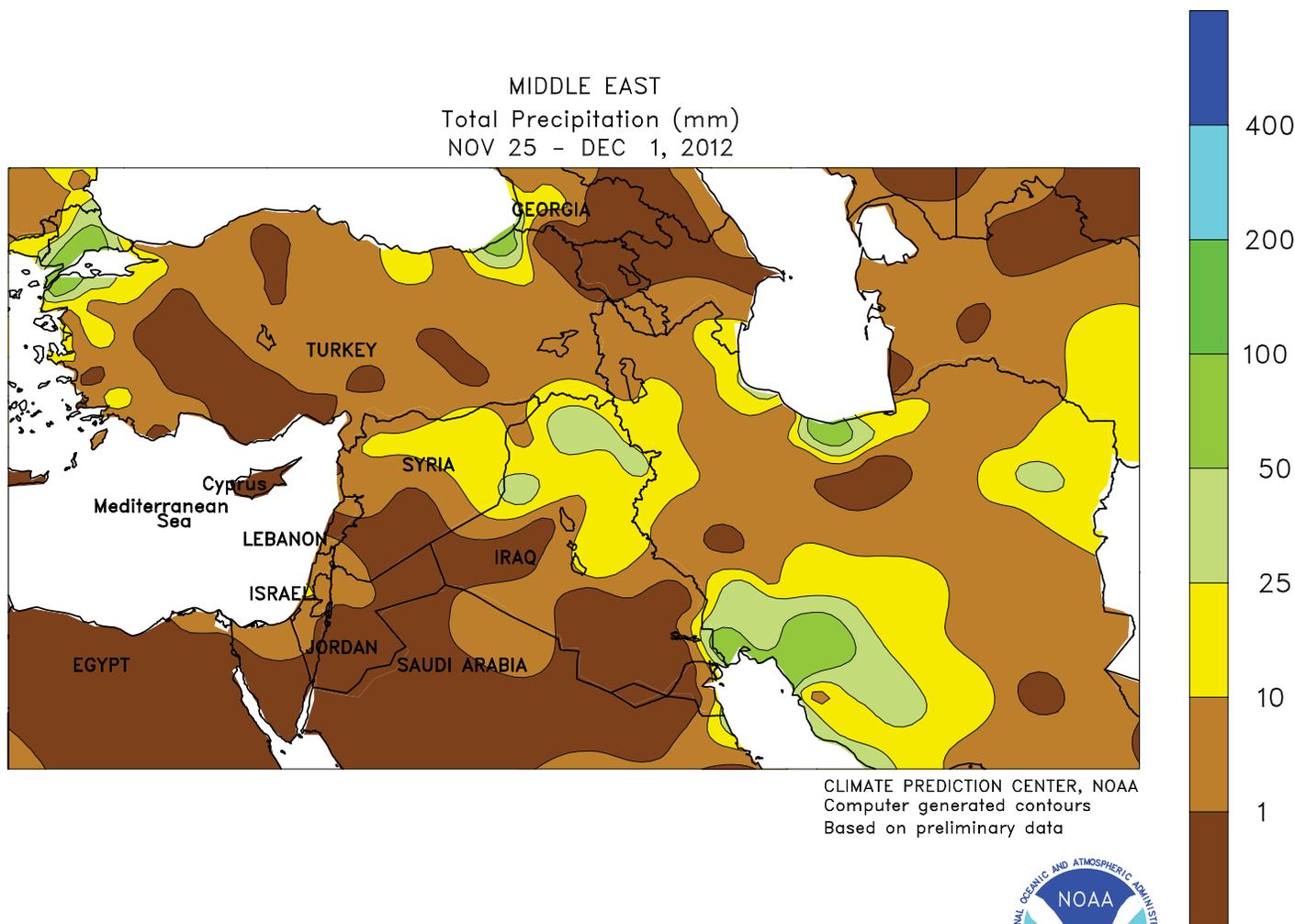
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**WESTERN FSU**

Mostly dry, warm conditions across southern crop areas contrasted with unsettled weather in northern and eastern portions of the region. A cold front generated rain and snow (5-20 mm liquid equivalent) from Belarus and northern Ukraine into Russia's Volga District, maintaining adequate soil moisture reserves for dormant winter crops. However,

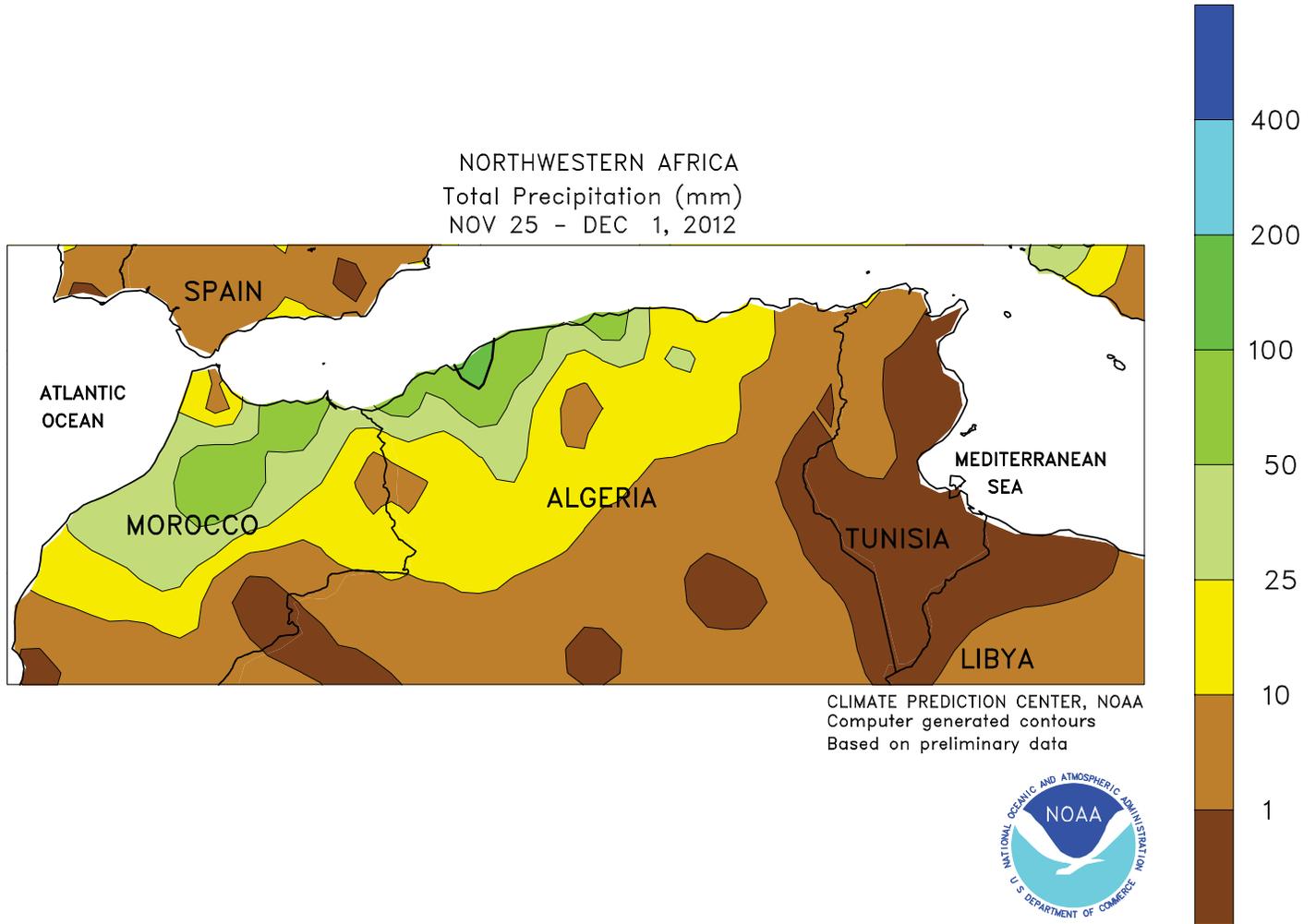
snow cover remained shallow and patchy, with the primary snowpack (10 cm or greater) well north and east of the typical climatological norm for early December. Mostly dry, warm weather (up to 7°C above normal) persisted in the Southern District, Russia's largest winter wheat producer, where soil moisture deficits continued to limit wheat establishment.



**MIDDLE EAST**

Lingering showers in central and eastern crop areas contrasted with dry weather in Turkey. A slow-moving storm system produced additional rain in northern portions of Syria and Iraq (10-35 mm), favoring winter grain development. Rainfall in Iran ranged from 2 to 10 mm in northwestern and northeastern wheat and barley areas, maintaining favorable soil moisture for crop establishment. In southern Iran, 25 to nearly 80 mm of rain boosted irrigation reserves and provided supplemental

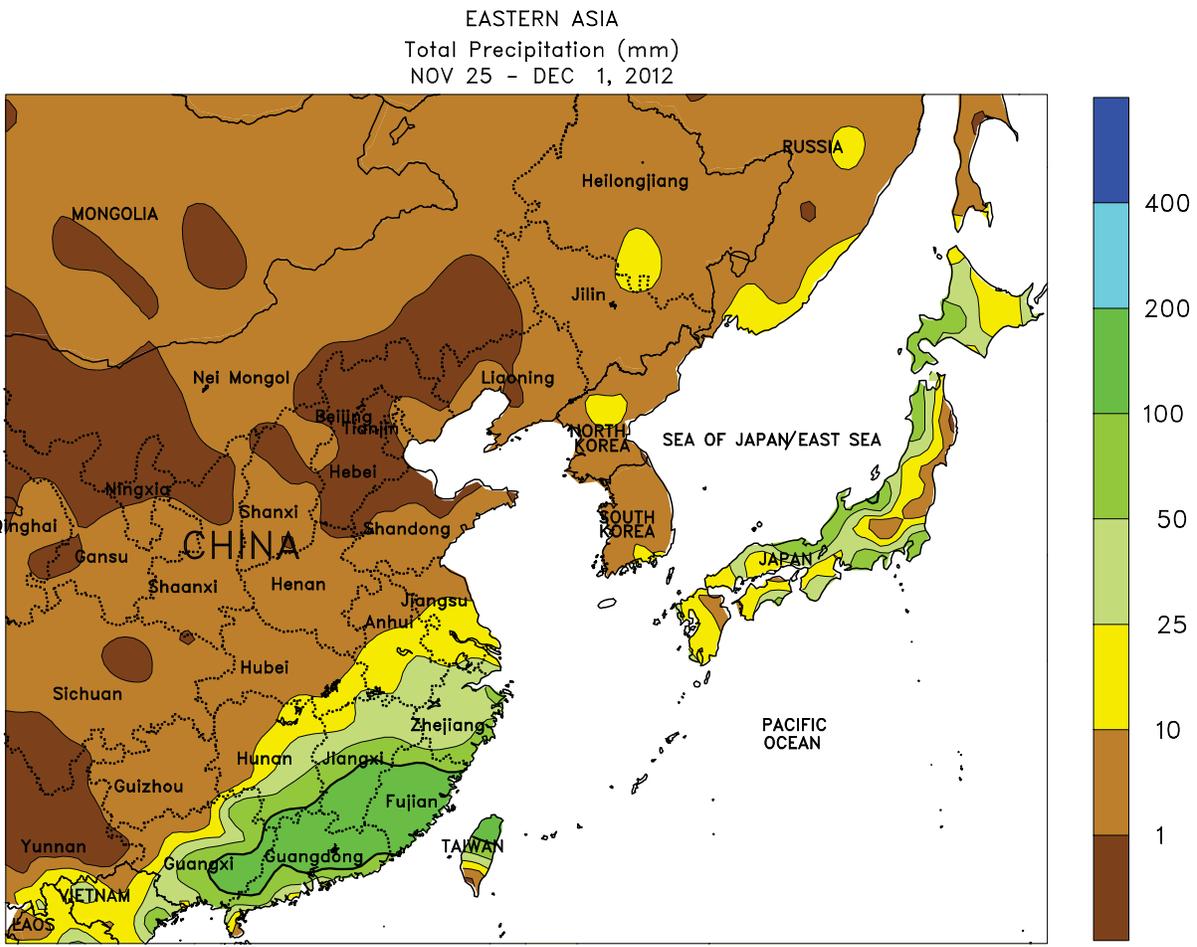
moisture for winter grains. Meanwhile, mostly dry weather prevailed in Turkey, reducing soil moisture for winter crop growth but promoting seasonal fieldwork. However, locally heavy showers (25-90 mm) overspread northwestern Turkey, signaling the arrival of the next Mediterranean storm system. Temperatures averaged 1 to 4°C above normal over most primary winter grain areas, facilitating additional late-season crop growth.



**NORTHWEST AFRICA**

Above-normal rainfall persisted across much of the region, further increasing moisture reserves for winter grains but hampering fieldwork. A pair of slow-moving cold fronts triggered additional moderate to heavy showers (10-60 mm, with higher totals near the Mediterranean Coast) in northern Morocco and Algeria. The rainfall maintained adequate to

locally excessive soil moisture for winter wheat and barley but continued to hamper fieldwork. In contrast, mostly dry weather prevailed in northern Tunisia, promoting winter grain planting and establishment. Temperatures averaged up to 3°C below normal, although there were no untimely freezes reported.



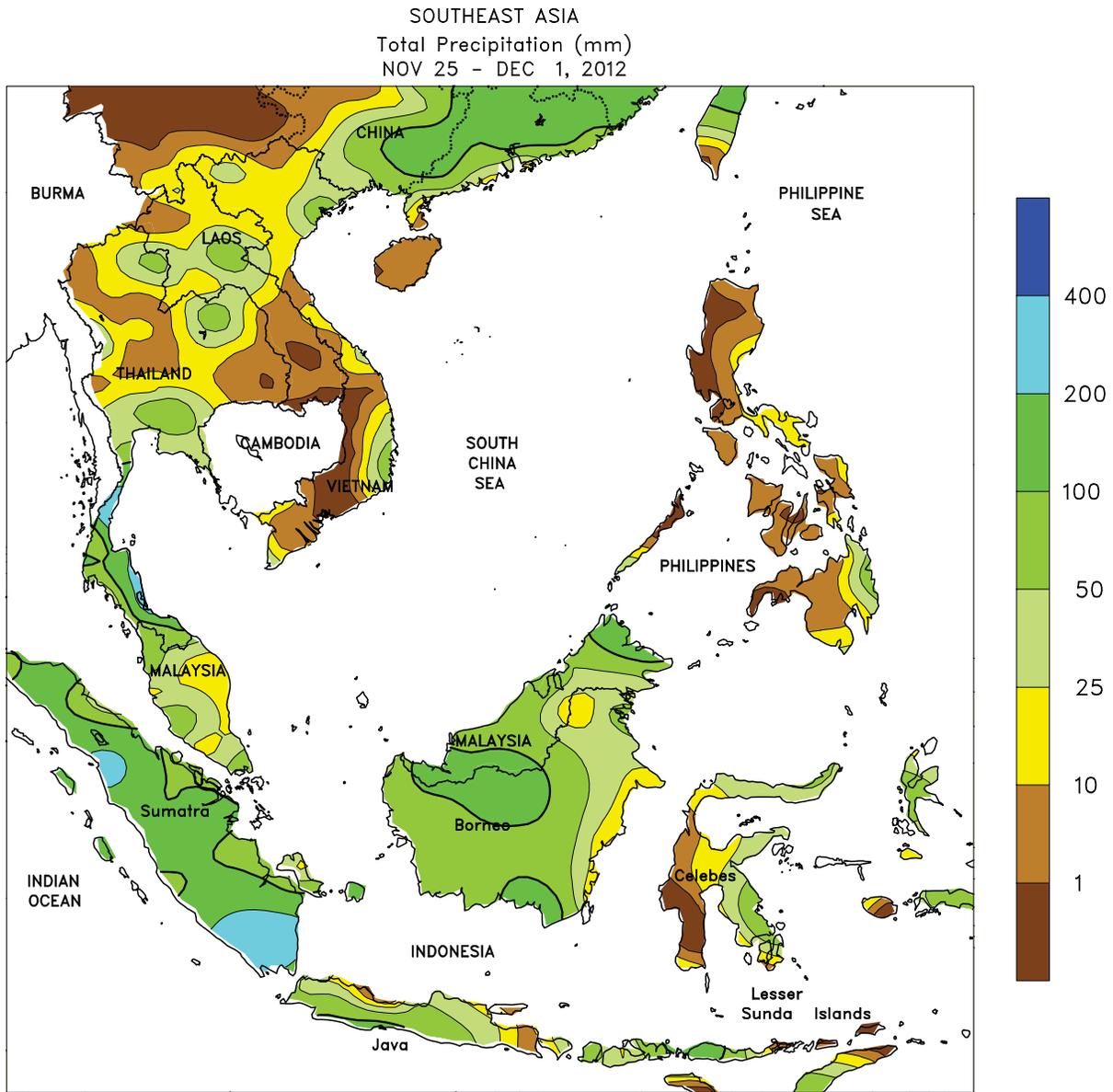
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**EASTERN ASIA**

Mild weather prevailed during the first half of the week allowing further, albeit limited, development of winter wheat on portions of the North China Plain. Much cooler conditions by mid-week, however, began easing wheat into dormancy in Shandong and accelerated dormancy for wheat in Hebei; wheat in Henan, Anhui, and Jiangsu remained vegetative despite the recent cool down. Winter rapeseed in the Yangtze Valley also

remained vegetative with weekly average temperatures between 5 and 10°C. Light showers (less than 10 mm) along with the cool weather maintained favorable topsoil moisture for crops across southern portions of the North China Plain and into much of the Yangtze Valley. Meanwhile, heavier rainfall (25-125 mm) boosted soil moisture for sugarcane and winter vegetables in southern and southeastern China.



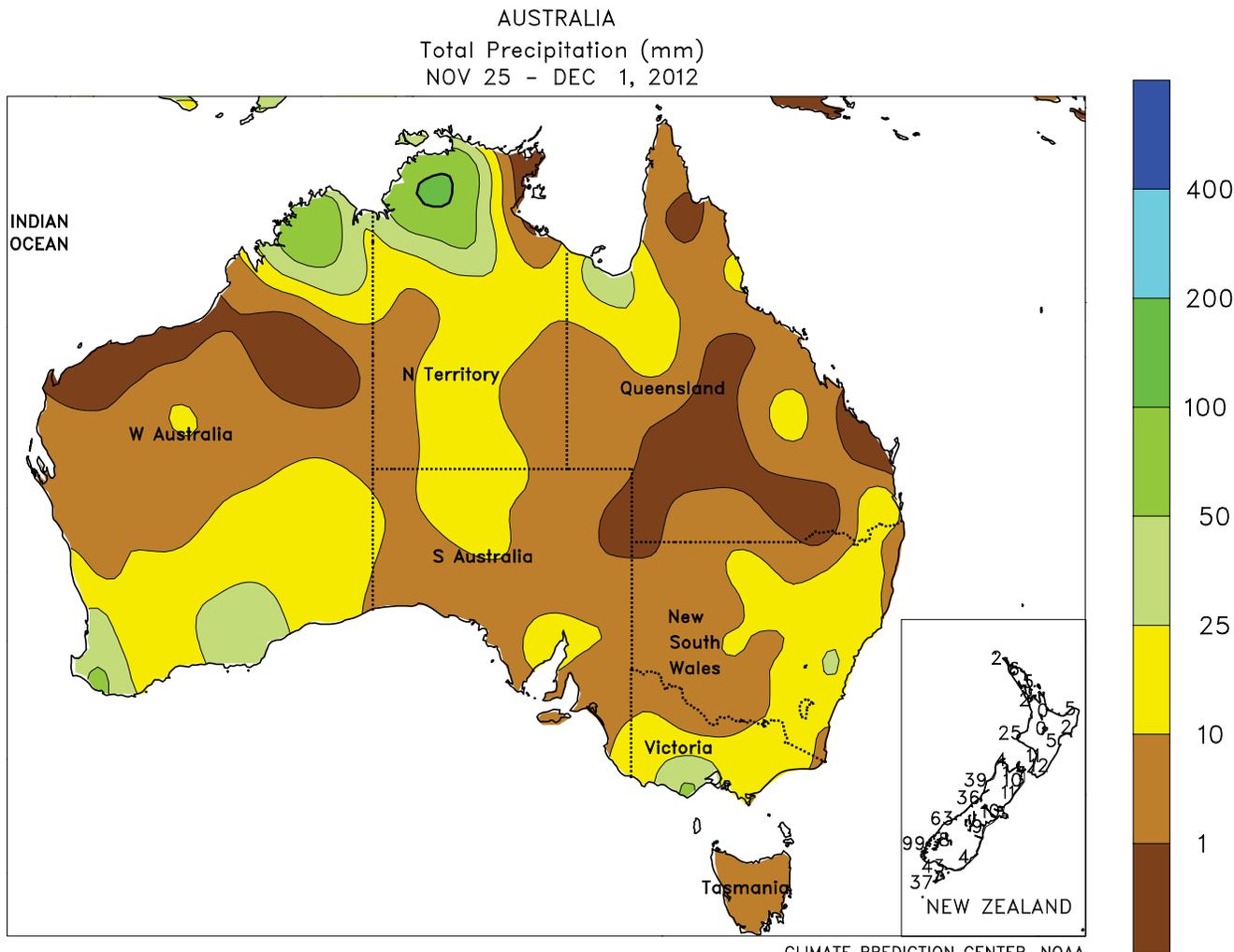
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Based on preliminary data



**SOUTHEAST ASIA**

Drier weather across Java, Indonesia, reduced moisture supplies for rice and negated gains made from the previous week's rainfall. Seasonal (since November 1) rainfall deficits returned to all of Java; more consistent rain is needed to maintain adequate moisture supplies for vegetative rice. In contrast, showers (50-150 mm) continued in oil palm areas of Indonesia and Malaysia,

maintaining favorable soil moisture for the crop. Meanwhile, generally dry weather prevailed for rice and corn throughout the Philippines where most areas were experiencing a seasonal (since October 1) rainfall deficit — the exception being Mindanao, where rainfall surpluses continued. Despite the dryness, however, irrigation supplies remained high due to plentiful summer rainfall.



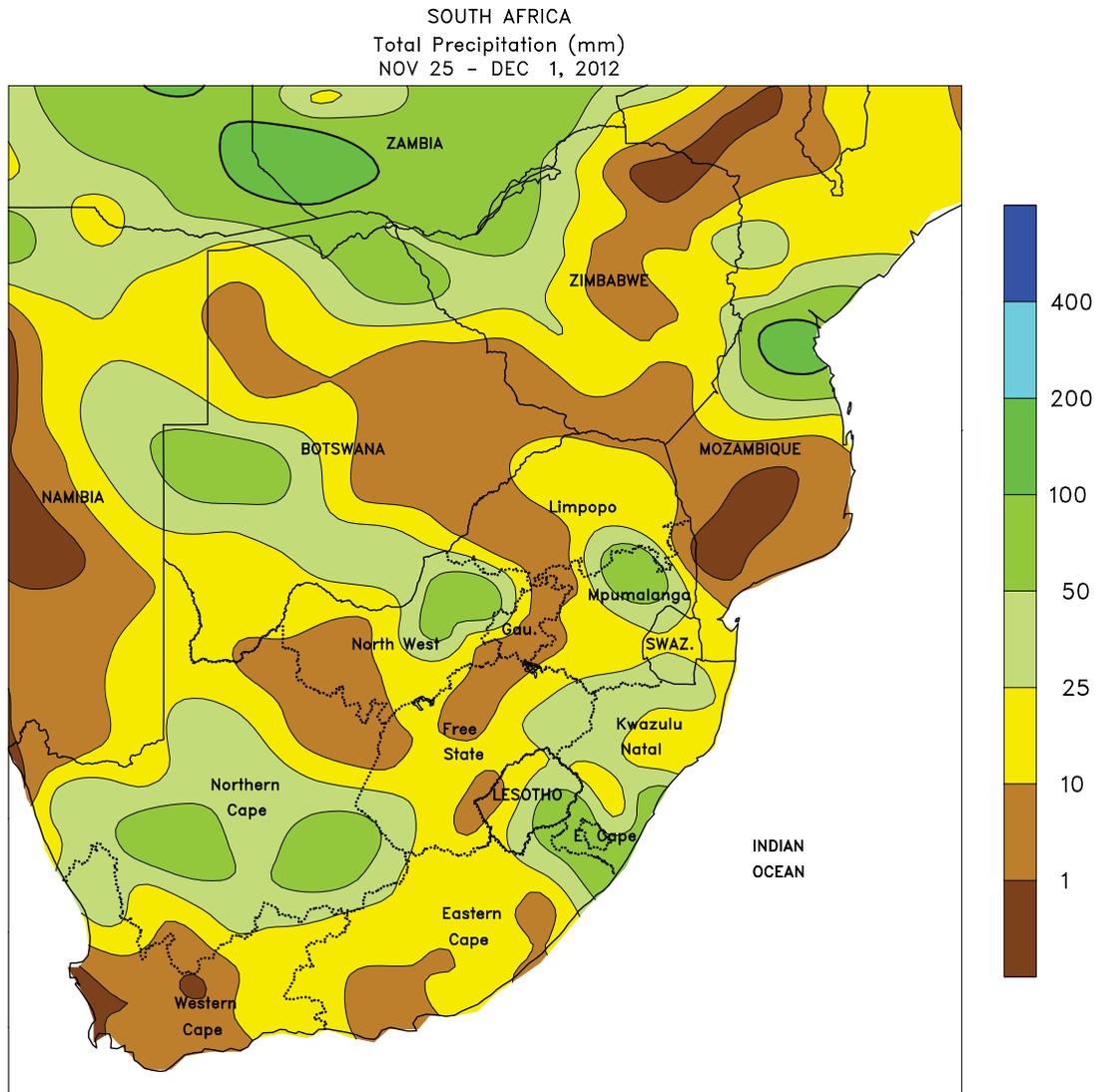
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**AUSTRALIA**

In Western Australia, mid-week rain (10-20 mm) slowed winter crop maturation and harvesting before warm, sunny weather during the latter half of the week helped dry crops and enabled fieldwork to regain momentum. In southeastern Australia, frequent, albeit relatively light showers (5-25 mm) hindered winter grain maturation and harvesting. Scattered showers (5-15 mm) in northern New South Wales and extreme southeastern Queensland helped maintain local moisture

supplies for vegetative summer crops. Many summer crop areas in northern New South Wales and southern Queensland remained hot and dry, however, increasing irrigation requirements and likely stressing some dryland crops. Temperatures averaged 2 to 5°C above normal in southern and eastern Australia, with maximum temperatures in the upper 30s to lower 40s degrees C. In contrast, temperatures averaged about 1 to 2°C below normal in Western Australia.



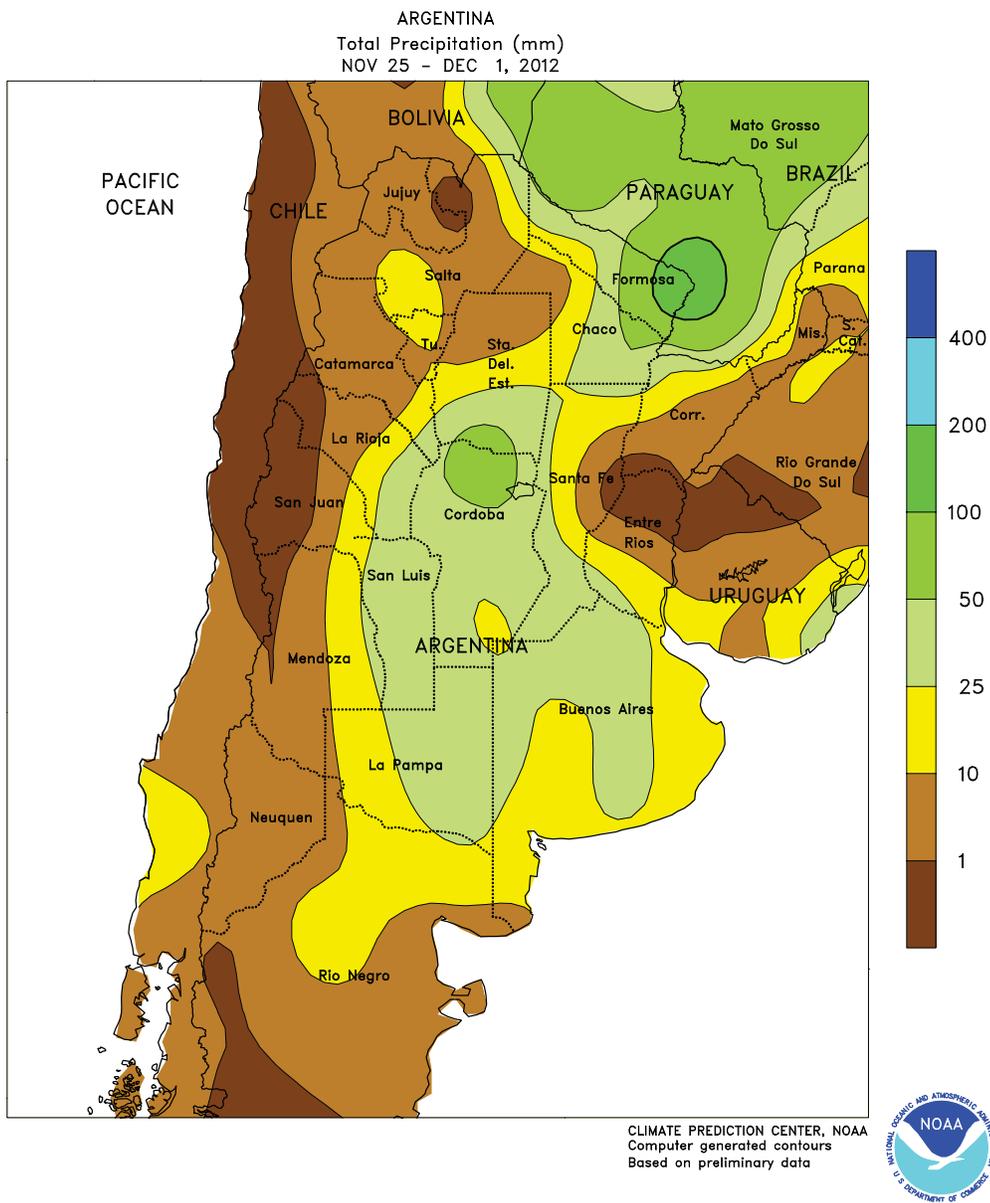
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Based on preliminary data



**SOUTH AFRICA**

Mild, showery weather maintained mostly favorable conditions for corn and other rain-fed summer crops. Rainfall totaled 5 to 50 mm across the corn belt; many eastern production areas (in and around Mpumalanga) recorded less rain than last week, while western areas (particularly North West) saw an increase in rainfall. The breaks in rainfall supported summer crop planting in western areas with sufficient topsoil moisture for germination. Weekly temperatures averaged near to slightly below normal, with daytime highs generally ranging from the upper 20s (degrees C) in the east to the lower 30s farther west.

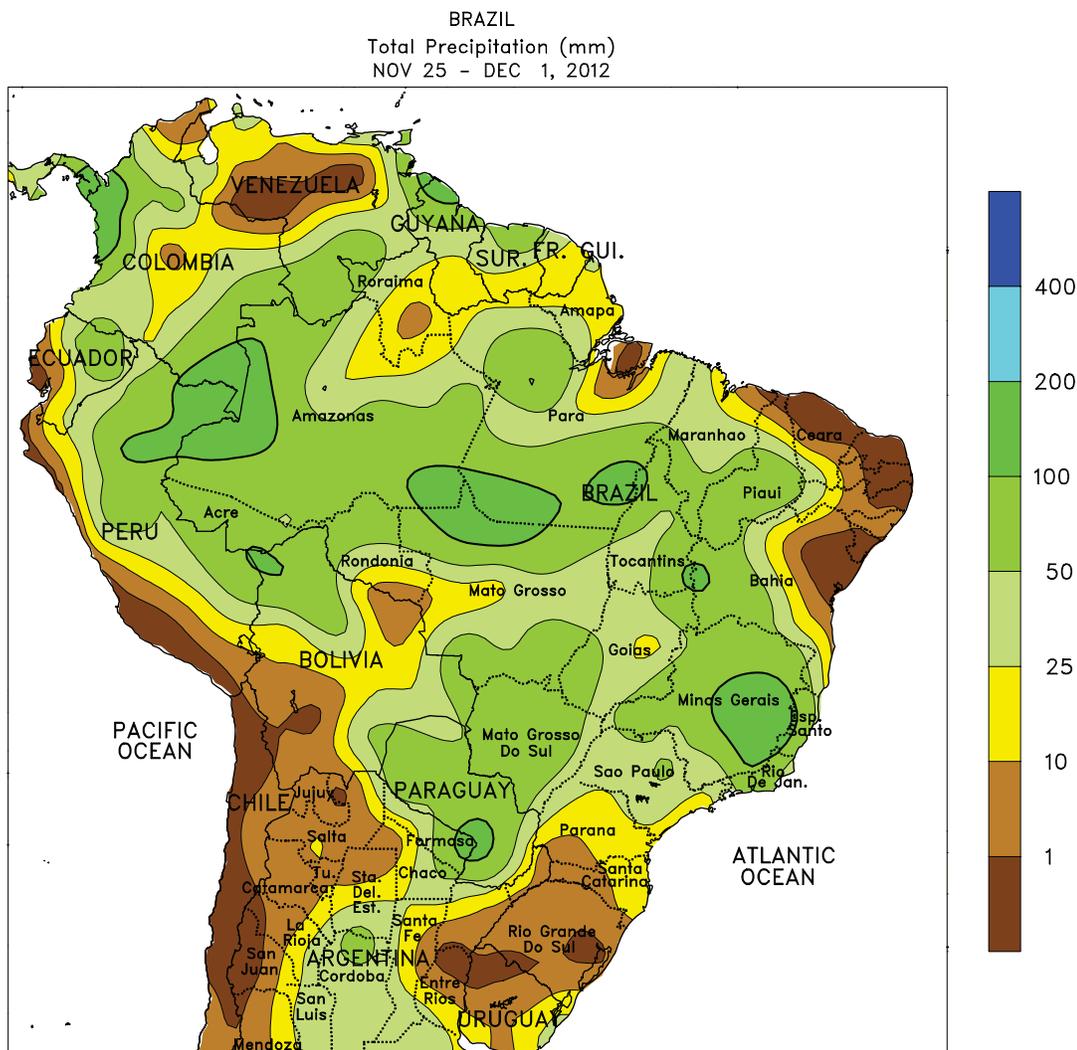
Elsewhere, locally heavy rain (25-75 mm) covered the rain-fed sugarcane areas of southern KwaZulu-Natal, accompanied by slightly below-normal temperatures (daytime highs in the lower and middle 20s). Rainfall also increased throughout the Cape Provinces, with locally heavy amounts (greater than 25 mm) boosting irrigation reserves for crops and pastures. Mostly dry weather dominated the main vineyard and orchard areas of Western Cape, where sunny, warm conditions (daytime highs mostly in the middle 30s) fostered development of irrigated crops.



**ARGENTINA**

Wetter-than-normal conditions persisted throughout much of central Argentina, maintaining abundant to locally excessive levels of moisture for crop development and additional fieldwork. Rainfall totaled 25 to 50 mm in key production areas of Cordoba, La Pampa, Buenos Aires, and southern Santa Fe. The rainfall came after several days of favorable dryness and warmth (daytime highs briefly reached the lower and middle 30s degrees C), which enabled some planting of summer grains and oilseeds but considerably drier weather will be needed to alleviate standing water in many fields. Farther north, locally heavy rain (25-100 mm) increased moisture for cotton and other summer crops in eastern sections of Chaco and Formosa,

but rainfall was lighter (less than 25 mm) in the more westerly production areas. Weekly average temperatures were 1 to 2°C above normal across the north, with daytime highs reaching the upper 30s. According to Argentina’s Ministry of Agriculture, sunflowers were 87 percent planted (an increase of 9 percentage points from last week) as of November 29, 11 points behind last year’s pace. Similarly, corn was 63 percent planted (an increase of 4 percentage points), lagging last year by 10 percentage points. Meanwhile, soybeans were 58 percent planted (an increase of 11 percentage points), lagging last year by 8 percentage points. In addition, winter wheat was 28 percent harvested, down 4 points from last year.



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Computer generated contours  
Based on preliminary data



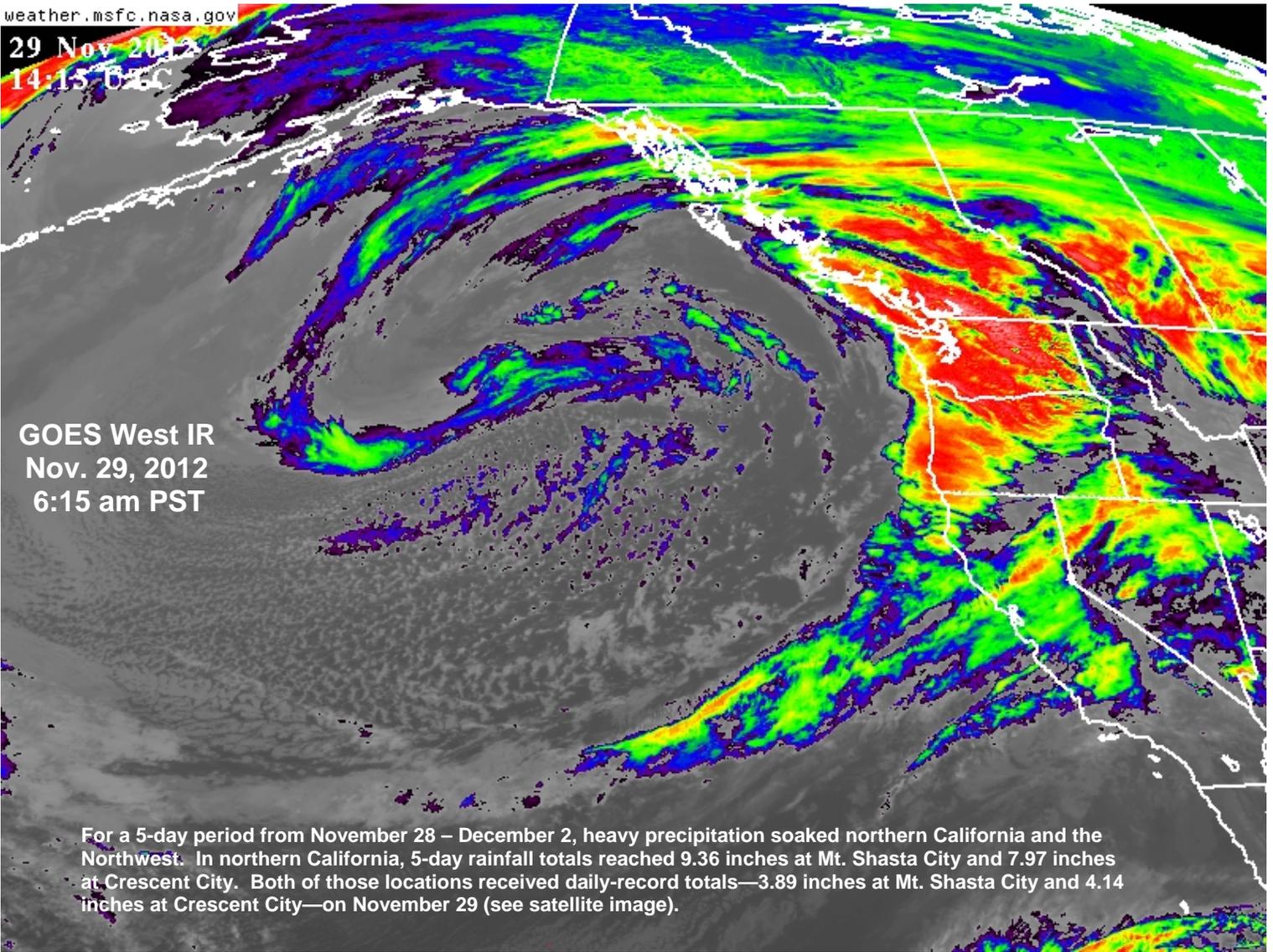
**BRAZIL**

Widespread, locally heavy rain maintained generally favorable conditions for summer crops, particularly soybeans and cotton, across central Brazil. Rainfall totaling 50 to 100 mm (local amounts in excess of 200 mm) spanned a large area extending from Mato Grosso eastward through Minas Gerais, extending northward into the northeastern interior (notably Tocantins and western Bahia). Similar amounts were recorded in Mato Grosso do Sul, as well as Paraguay, with lighter amounts (10-50 mm) in northern Parana and Sao Paulo. Following last week's warmth and dryness, the rain was particularly welcome in the southeast (northeastern Parana to southern Minas

Gerais) for sugarcane, coffee, corn, and soybeans. In contrast, mostly dry weather dominated the south (Rio Grande do Sul, Santa Catarina, and southern Parana), reducing moisture for corn and soybeans but favoring winter wheat harvesting. Seasonably drier conditions dominated northeastern coastal farming areas, aiding harvests of sugarcane and cocoa. Weekly average temperatures were 2 to 3°C above normal in the south, with daytime highs in the lower and middle 30s (degrees C). Temperatures averaged 1 to 2°C above normal farther north, with daytime highs reaching the middle 30s in many locations.

29 Nov 2012  
14:15 UTC

GOES West IR  
Nov. 29, 2012  
6:15 am PST



For a 5-day period from November 28 – December 2, heavy precipitation soaked northern California and the Northwest. In northern California, 5-day rainfall totals reached 9.36 inches at Mt. Shasta City and 7.97 inches at Crescent City. Both of those locations received daily-record totals—3.89 inches at Mt. Shasta City and 4.14 inches at Crescent City—on November 29 (see satellite image).

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