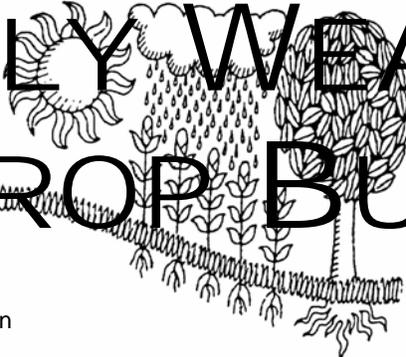
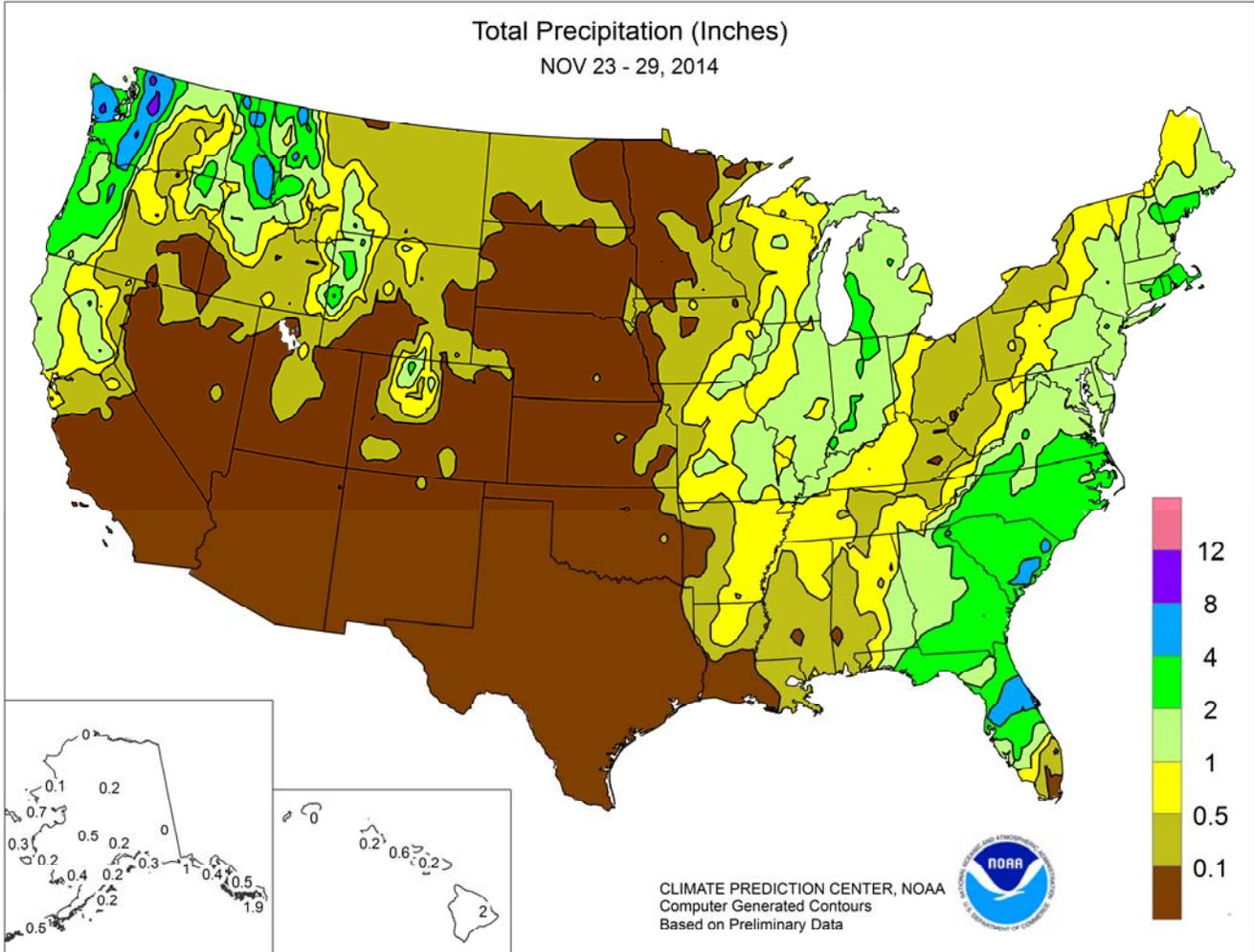


# WEEKLY WEATHER AND CROP BULLETIN



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 23 – 29, 2014

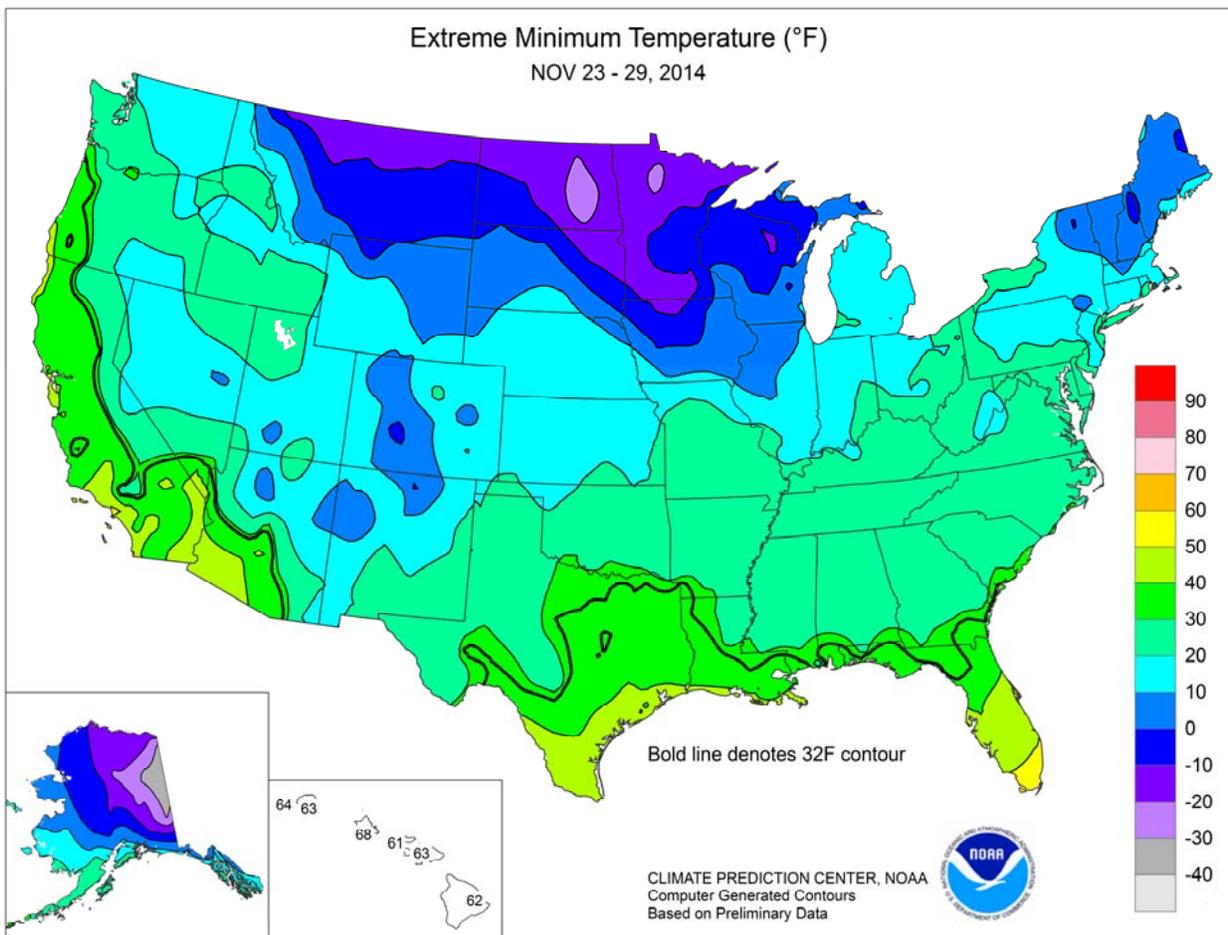
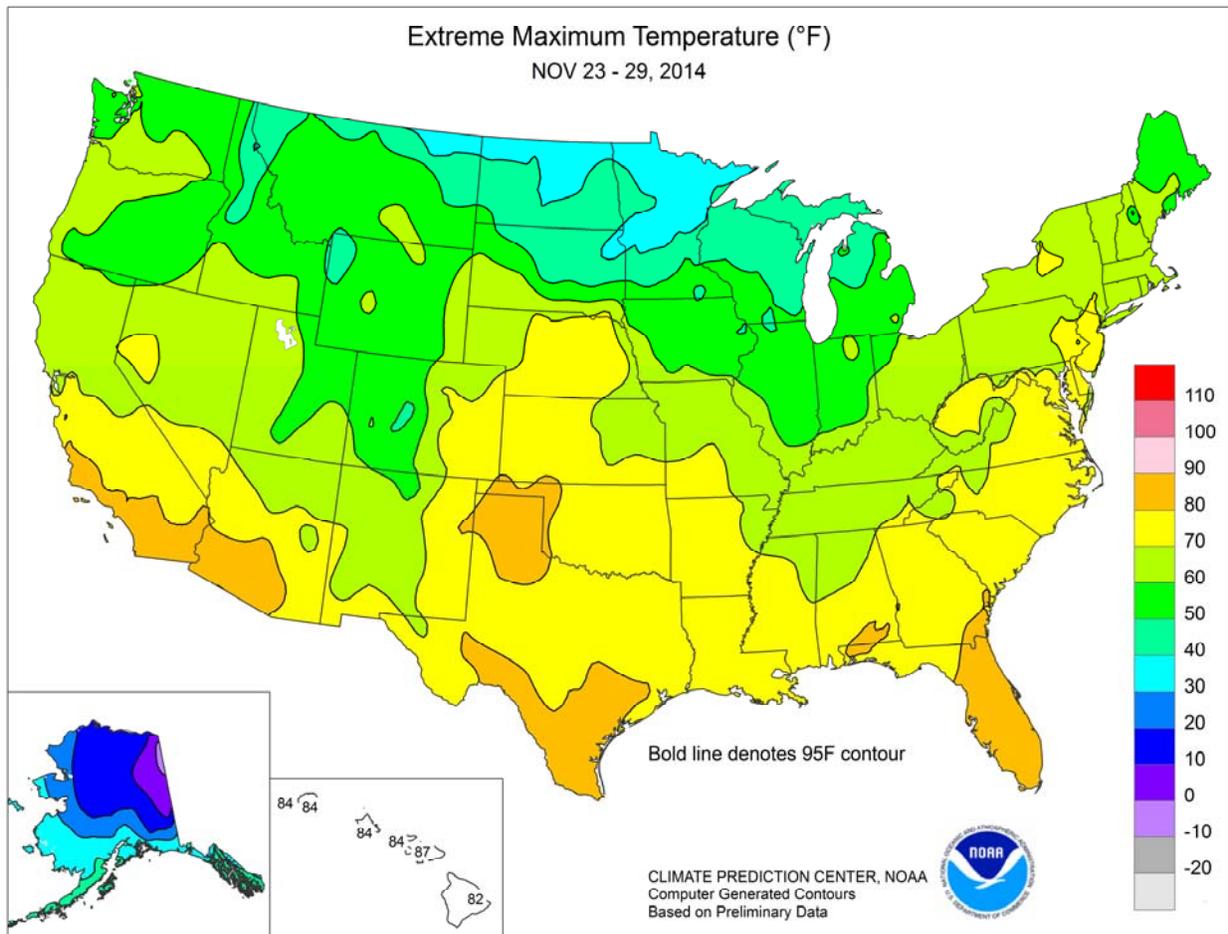
*Highlights provided by USDA/WAOB*

Cold conditions eased in many parts of the country, but persisted in the **north-central U.S.** In fact, weekly temperatures averaged more than 10°F above normal across the **northern Intermountain West**, but were at least 10°F below normal in **northwestern Minnesota** and parts of **North Dakota**. Widespread rain fell across the **eastern one-third of the U.S.** early in the week, followed by a transition to snow showers in the **Midwest**. In addition, a pre-Thanksgiving storm produced heavy precipitation, including some snow, in the **East**. Weekly

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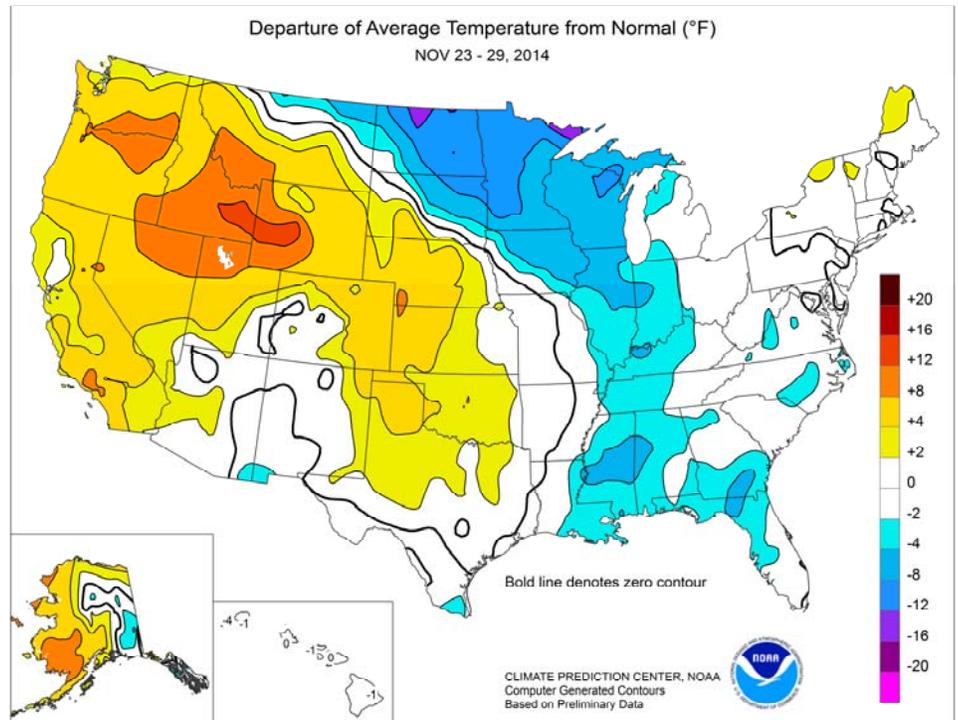


(Continued from front cover)

rainfall totaled 2 inches or more in the **Southeast**, disrupting fieldwork activities such as winter wheat planting and cotton and soybean harvesting. Farther west, generally dry weather prevailed across the **nation's mid-section**, accompanied by large temperature fluctuations. Winter wheat's protective snow cover was largely limited to portions of the **northern Plains**, while cotton harvesting and other late-season fieldwork progressed on the **southern Plains**. Elsewhere, dry weather from **southern California to the southern Rockies** contrasted with varying amounts of precipitation farther north. Precipitation was especially heavy, locally totaling 4 inches or more, in the **Pacific Northwest** and **northern Rockies**. In **northern California**, late-week showers provided little relief from historic drought.

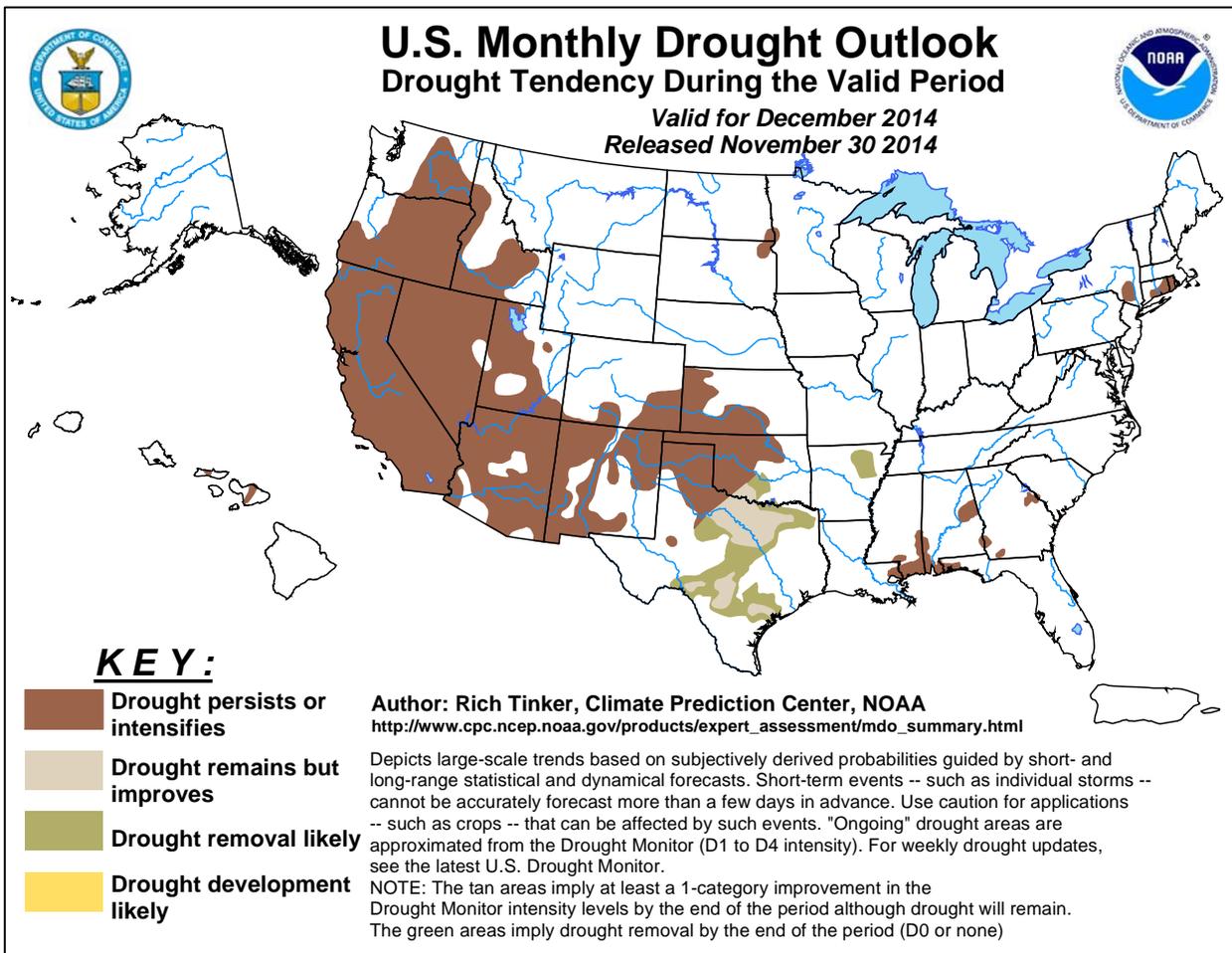
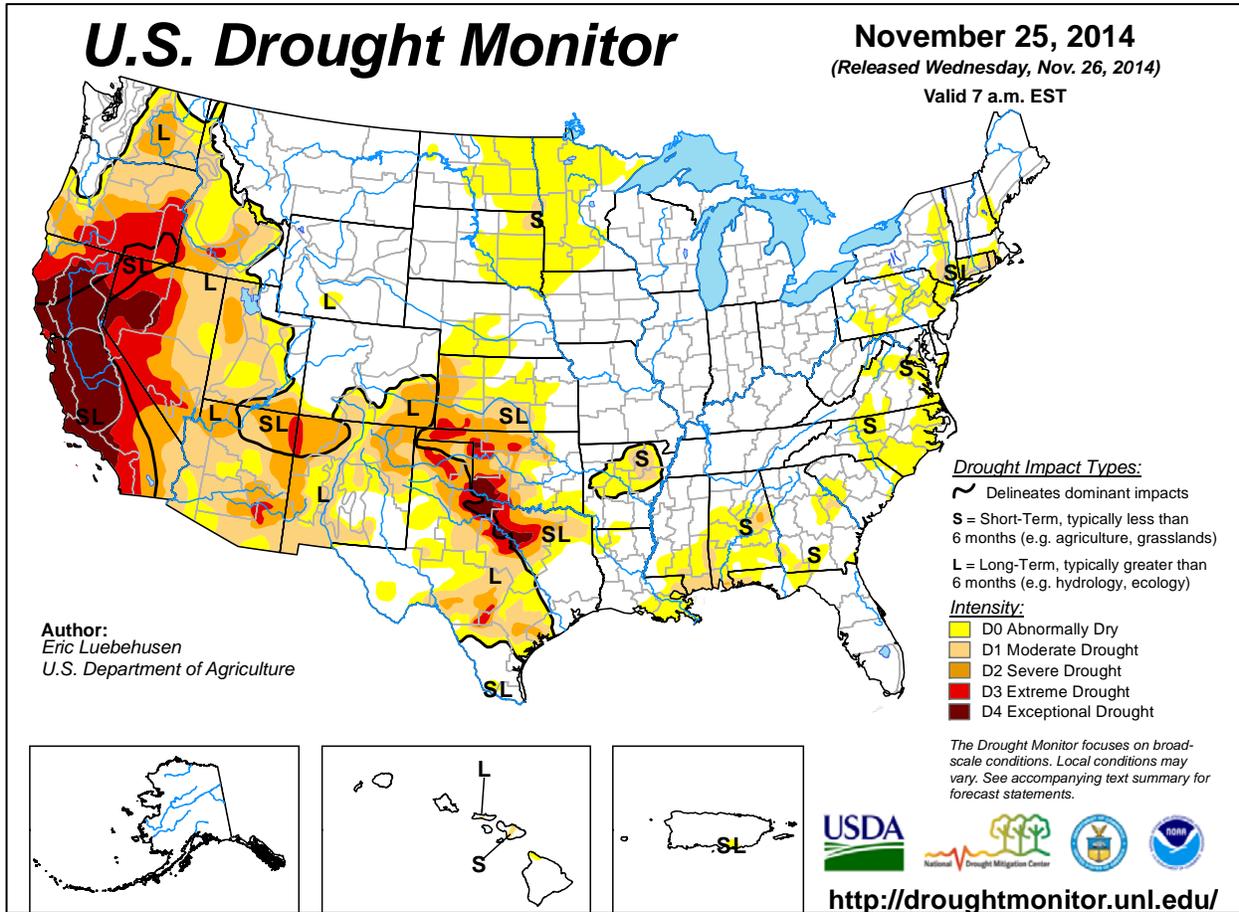
Early in the week, warmth briefly overspread the **East** in advance of a strong cold front. On November 23-24, **Melbourne, FL**, opened the week with consecutive daily-record highs (86 and 88°F, respectively). Other record-setting highs for November 24 included 88°F in **Miami, FL**; 83°F in **Savannah, GA**; 74°F in **Washington, DC**; and 72°F in **Syracuse, NY**. Just 2 days later, **Jamestown, ND**, posted a daily-record low (-25°F) for November 26. Thanksgiving Day, November 27, featured another daily-record low (-28°F) in **Jamestown**, as well as **Sisseton, SD** (-15°F), and **Antigo, WI** (-13°F). With a low of -8°F on November 27, **Rochester, MN**, experienced its second-lowest Thanksgiving temperature on record, behind -18°F on November 30, 1893. By week's end, cold air settled into the **East**, where **Montpelier, VT** (4°F), collected a daily-record low for November 29. At the same time, another surge of bitterly cold air reached **Montana**, where **Ennis** logged a daily-record low (-18°F on the 29th). In stark contrast, mid- to late-week warmth expanded across the **western and central U.S.** In **Portland, OR**, consecutive daily record highs (63 and 62°F, respectively) were noted on November 25-26. Similarly, November 26-27 featured consecutive daily-record highs in **southern California** locations such as **Long Beach** (87 and 90°F) and **El Cajon** (89 and 91°F). In fact, **Long Beach** experienced its second-warmest Thanksgiving behind 91°F on November 24, 1977. Elsewhere in **southern California**, November 27 was the warmest Thanksgiving Day on record in **Woodland Hills** (93°F) and **San Luis Obispo** (82°F). Toward week's end, warmth rapidly spread across the **Great Plains**. In **Nebraska**, the week ended with consecutive daily-record highs on November 28-29 in **Hastings** (74 and 80°F) and **Grand Island** (70 and 78°F). For **Hastings**, it was the first-ever observance of an 80-degree reading during the second half of November. Elsewhere, daily-record highs included 87°F (on November 27) in **Phoenix, AZ**; 84°F (on November 29) in **Childress, TX**; and 80°F (on November 28) in **Goodland, KS**. In **northern Texas**, the week ended on November 28-29 with consecutive daily-record highs in locations such as **Amarillo** (83°F both days) and **Borger** (83 and 81°F).

Widespread rainfall accompanied the early-week **Southern** and **Eastern** warmth. On November 23, daily-record precipitation amounts reached 3.37 inches in **Lake Charles, LA**; 2.49 inches in **Macon, GA**; and 2.43 inches in **Greenville-Spartanburg, SC**. Heavy rain also extended into the **Midwest**, where record-setting totals for November 23 included 1.91 inches in **Indianapolis, IN**, and 1.16 inches in **Grand Rapids, MI**. Precipitation lingered across **Michigan** into November 24, when record-setting totals reached 1.04 inches in **Muskegon** and



1.01 inches in **Lansing**. Meanwhile, **Midwestern** precipitation changed to snow, leading to record-setting amounts for November 24 in **Wisconsin** locations such as **Madison** (5.3 inches) and **La Crosse** (2.2 inches). Farther south, heavy rain developed across parts of **Florida**, resulting in daily-record totals for November 25 in **Daytona Beach** (6.22 inches) and **Tampa** (3.63 inches). By November 26, an **East Coast** storm produced additional heavy rain, along with locally more than a foot of snow from the **eastern slopes of the central Appalachians northeastward into Maine**. Daily-record rainfall totals for the 26th reached 2.85 inches in **Ft. Myers, FL**, and 1.79 inches in **Norfolk, VA**. Meanwhile, record-setting snowfall amounts for November 26 reached 10.3 inches in **Concord, NH**; 9.6 inches in **Albany, NY**; 5.3 inches in **Worcester, MA**; and 4.9 inches in **Allentown, PA**. Snow squalls returned to the **Great Lakes region**, resulting in a daily-record total of 11.0 inches (on November 27) in **Alpena, MI**. In addition, November snowfall records were broken in locations such as **Marquette, MI** (53.0 inches), and **Rhineland, WI** (32.4 inches). During the mid- to late-week period, several rounds of precipitation pushed inland across the **Northwest**, accompanied by locally high winds. **Billings, MT**, measured daily-record snowfall totals (6.2 and 4.4 inches, respectively) on November 26 and 29. Elsewhere in **Montana**, record-setting snowfall totals for November 29 included 6.1 inches in both **Helena** and **Great Falls**. Meanwhile in **Wyoming**, peak wind gusts on November 29 were clocked to 64 mph in **Buffalo** and 63 mph in **Lander**.

Colder weather arrived across much of **Alaska**, accompanied by late-week snow in the southeastern part of the state. Still, weekly temperatures averaged more than 10°F above normal in parts of **southwestern Alaska**. In **Juneau**, where no measurable snow had fallen during the first 28 days of the month, 9.8 inches fell on November 29-30. Meanwhile, **Kodiak** received rainfall totaling only 0.33 inch during the last 10 days of November, but still reached 13.00 inches for the month—less than 3 inches shy of its November 2002 precipitation record of 15.92 inches. Farther south, **Hawaiian** showers were mostly light and confined to windward locations. A few heavier showers were noted, especially on the **Big Island**, where **Honokaa** reported a weekly rainfall total of 12.58 inches. At the state's major airport observation sites, November rainfall ranged from 1.00 inch (45 percent of normal) in **Kahului, Maui**, to 9.03 inches (58 percent) in **Hilo**, on the **Big Island**.



National Weather Data for Selected Cities

Weather Data for the Week Ending November 29, 2014

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 SEP 1	PCT. NORMAL SINCE SEP 1	TOTAL, IN, SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMP. °F		PRECIP	
																90 AND ABOVE	32 AND BELOW	.01 INCH OF MORE	.50 INCH OF MORE
AL BIRMINGHAM	59	39	68	25	49	-2	0.92	-0.20	0.92	9.76	84	42.61	87	84	41	0	2	1	1
HUNTSVILLE	57	36	66	25	47	-2	0.32	-1.00	0.31	9.60	76	47.74	93	79	53	0	3	2	0
MOBILE	66	43	78	34	55	-2	0.17	-1.17	0.17	10.04	70	67.44	110	89	49	0	0	1	0
MONTGOMERY	65	41	78	28	53	-1	0.51	-0.71	0.51	3.97	36	43.71	88	81	39	0	2	1	1
AK ANCHORAGE	30	20	37	14	25	5	0.17	-0.05	0.16	5.60	94	17.91	120	85	75	0	7	2	0
BARROW	5	-6	16	-11	-1	4	0.02	-0.01	0.02	2.63	217	7.87	197	89	81	0	7	1	0
FAIRBANKS	10	-5	17	-18	3	5	0.00	-0.14	0.00	3.33	126	16.05	169	76	71	0	7	0	0
JUNEAU	36	27	42	13	32	0	0.44	-0.72	0.31	20.63	97	64.80	123	86	73	0	4	4	0
KODIAK	41	30	43	25	35	2	0.21	-1.30	0.14	26.51	117	75.74	112	97	84	0	5	3	0
NOME	25	16	32	4	20	6	0.69	0.41	0.27	4.55	86	13.55	88	88	79	0	7	4	0
AZ FLAGSTAFF	56	19	66	12	38	4	0.00	-0.41	0.00	4.39	76	17.23	82	59	12	0	7	0	0
PHOENIX	77	47	87	42	62	4	0.00	-0.17	0.00	5.24	239	7.45	102	39	17	0	0	0	0
PRESCOTT	64	28	74	20	46	5	0.00	-0.28	0.00	2.75	62	10.32	58	46	10	0	7	0	0
TUCSON	75	40	85	33	57	1	0.00	-0.14	0.00	4.09	125	8.02	72	30	16	0	0	0	0
AR FORT SMITH	62	35	75	29	48	1	0.00	-1.11	0.00	16.38	135	39.83	99	84	37	0	4	0	0
LITTLE ROCK	61	39	76	29	50	1	0.58	-0.79	0.58	7.84	59	44.95	98	82	35	0	3	1	1
CA BAKERSFIELD	70	44	78	42	57	5	0.00	-0.14	0.00	1.10	113	2.44	43	71	52	0	0	0	0
FRESNO	67	43	73	40	55	5	0.00	-0.25	0.00	1.30	68	5.38	55	90	70	0	0	0	0
LOS ANGELES	79	55	86	52	67	7	0.00	-0.30	0.00	1.44	90	5.02	45	68	31	0	0	0	0
REDDING	60	41	68	36	50	2	0.76	-0.19	0.56	8.68	134	23.15	81	94	77	0	0	2	1
SACRAMENTO	65	42	70	37	54	4	0.34	-0.18	0.31	2.16	67	10.07	66	97	49	0	0	2	0
SAN DIEGO	77	53	85	50	65	5	0.00	-0.25	0.00	0.39	24	3.28	35	58	29	0	0	0	0
SAN FRANCISCO	65	50	68	46	57	4	0.01	-0.60	0.01	1.63	46	8.96	53	91	75	0	0	1	0
STOCKTON	65	40	70	35	53	3	0.05	-0.36	0.04	1.91	69	7.72	65	95	80	0	0	2	0
CO ALAMOSA	47	7	60	1	27	3	0.02	-0.06	0.02	1.45	74	5.31	78	76	33	0	7	1	0
CO SPRINGS	54	25	69	15	40	7	0.07	0.01	0.07	3.83	148	16.87	100	71	24	0	5	1	0
DENVER INTL	56	28	72	20	42	8	0.00	-0.10	0.00	3.07	124	18.18	137	63	23	0	5	0	0
GRAND JUNCTION	48	20	56	18	34	0	0.02	-0.10	0.02	2.81	109	10.89	129	83	52	0	7	1	0
PUEBLO	60	22	75	16	41	6	0.02	-0.07	0.02	1.99	99	11.58	97	74	37	0	7	1	0
CT BRIDGEPORT	50	36	62	21	43	1	1.66	0.85	1.11	9.31	88	40.53	100	86	61	0	2	3	2
HARTFORD	49	32	67	19	41	2	1.94	1.03	1.18	9.31	78	41.26	97	79	52	0	3	3	2
DC WASHINGTON	56	40	74	34	48	2	1.39	0.70	1.06	7.26	73	40.92	113	74	44	0	0	3	1
DE WILMINGTON	53	35	72	24	44	1	1.48	0.71	1.12	9.83	98	47.90	122	90	49	0	3	3	1
FL DAYTONA BEACH	73	56	87	41	65	0	6.72	6.08	6.23	27.82	198	60.98	131	94	60	0	0	3	1
JACKSONVILLE	69	50	86	34	59	-1	3.01	2.46	1.70	15.63	112	51.72	104	98	57	0	0	3	2
KEY WEST	77	68	83	59	73	-2	0.13	-0.37	0.08	12.23	99	34.37	93	87	65	0	0	2	0
MIAMI	80	65	88	53	72	-1	0.02	-0.61	0.02	13.15	73	62.27	110	85	56	0	0	1	0
ORLANDO	76	56	87	44	66	-1	3.39	2.84	2.78	15.99	150	53.76	117	94	65	0	0	3	2
PENSACOLA	66	46	80	36	56	-2	0.47	-0.53	0.44	10.92	77	79.67	132	84	52	0	0	3	0
TALLAHASSEE	66	45	76	30	56	-2	2.96	2.06	1.31	16.85	141	57.92	98	86	54	0	1	4	2
TAMPA	74	57	83	43	65	-2	3.79	3.34	3.64	16.36	160	56.31	133	87	57	0	0	3	1
WEST PALM BEACH	79	63	87	50	71	0	0.15	-1.06	0.14	16.39	86	59.52	102	85	63	0	0	2	0
GA ATHENS	59	39	77	26	49	-1	2.06	1.22	1.72	11.27	107	40.74	93	90	48	0	2	3	1
ATLANTA	60	41	76	28	50	-1	2.18	1.20	2.18	8.14	74	42.11	91	70	44	0	1	1	1
AUGUSTA	62	40	74	24	51	-1	2.45	1.89	1.61	6.07	65	34.49	83	92	57	0	2	4	2
COLUMBUS	62	42	79	30	52	-2	1.59	0.57	1.52	11.33	125	47.50	108	91	41	0	2	3	1
MACON	62	40	78	25	51	-2	3.10	2.30	2.48	8.67	101	42.59	104	96	46	0	3	3	1
SAVANNAH	66	48	83	33	57	1	4.46	3.96	2.16	11.48	109	46.53	100	86	60	0	0	4	2
HI HILO	79	66	82	62	73	0	2.01	-1.64	0.65	29.42	87	110.51	96	93	81	0	0	6	3
HONOLULU	81	71	84	68	76	-1	0.16	-0.36	0.16	7.58	151	19.83	130	72	63	0	0	1	0
KAHULUI	82	68	87	63	75	0	0.17	-0.37	0.10	2.53	74	18.18	117	81	70	0	0	3	0
LIHUE	80	69	84	63	75	0	0.04	-1.03	0.03	7.75	68	31.93	92	73	63	0	0	2	0
ID BOISE	55	35	65	28	45	9	0.03	-0.30	0.02	2.90	105	11.52	108	80	54	0	3	2	0
LEWISTON	52	39	60	26	46	8	0.82	0.55	0.61	2.59	90	10.24	89	80	70	0	1	4	1
POCATELLO	51	36	62	27	44	13	0.22	-0.03	0.22	3.03	106	11.81	104	66	47	0	2	1	0
IL CHICAGO/O'HARE	38	24	52	15	31	-5	1.07	0.39	0.63	6.60	75	38.68	115	87	74	0	6	3	1
MOLINE	39	21	53	9	30	-5	1.01	0.42	0.74	10.00	117	38.57	108	85	73	0	6	2	1
PEORIA	42	27	57	13	35	-1	0.80	0.09	0.41	8.47	97	38.54	115	84	67	0	5	3	0
ROCKFORD	36	20	50	10	28	-5	0.85	0.25	0.57	6.33	74	32.58	95	86	77	0	6	3	1
SPRINGFIELD	44	27	59	9	35	-3	1.27	0.61	0.68	11.11	136	43.44	132	93	68	0	5	3	1
IN EVANSVILLE	49	32	62	22	40	-3	1.86	0.84	1.33	9.53	98	43.71	108	83	63	0	4	4	1
FORT WAYNE	41	28	56	17	35	-2	1.97	1.28	1.59	10.73	130	41.12	122	85	70	0	5	2	1
INDIANAPOLIS	43	29	58	19	36	-4	2.04	1.19	1.90	8.48	94	38.99	103	86	65	0	5	2	1
SOUTH BEND	40	28	55	15	34	-3	1.96	1.16	1.29	11.78	115	39.98	110	85	74	0	6	4	1
IA BURLINGTON	40	24	57	4	32	-4	1.12	0.50	0.90	10.66	117	39.81	112	93	71	0	5	3	1
CEDAR RAPIDS	37	19	51	4	28	-5	0.99	0.50	0.99	7.39	97	37.88	119	96	77	0	6	1	1
DES MOINES	41	22	59	4	31	-3	0.37	-0.05	0.26	8.61	110	40.96	1						

Weather Data for the Week Ending November 29, 2014

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 SEP 1	PCT. NORMAL SINCE SEP 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	56	31	72	21	44	4	0.09	-0.28	0.09	2.33	33	24.30	84	71	46	0	4	1	0	
KY JACKSON	52	36	70	26	44	-1	0.27	-0.78	0.25	13.07	120	51.36	115	76	43	0	2	2	0	
KY LEXINGTON	49	33	63	24	41	-2	0.99	0.12	0.95	11.16	124	50.89	122	79	61	0	4	2	1	
KY LOUISVILLE	51	33	63	25	42	-3	0.91	-0.03	0.81	8.53	91	39.71	98	82	52	0	4	3	1	
KY PADUCAH	51	33	62	22	42	-2	1.28	0.13	1.17	7.15	64	43.91	99	89	54	0	4	2	1	
LA BATON ROUGE	67	42	77	31	55	-2	0.40	-0.76	0.40	8.90	68	56.01	97	93	37	0	1	1	0	
LA LAKE CHARLES	67	45	75	37	56	-2	3.39	2.28	3.39	14.53	102	66.60	127	92	47	0	0	1	1	
LA NEW ORLEANS	67	49	76	38	58	-1	0.39	-0.91	0.39	7.83	59	50.78	86	82	55	0	0	1	0	
LA SHREVEPORT	66	43	76	34	55	2	0.91	-0.16	0.91	11.48	95	37.46	81	83	36	0	0	1	1	
ME CARIBOU	37	21	56	3	29	2	0.74	0.02	0.37	11.39	124	40.05	118	88	63	0	5	4	0	
ME PORTLAND	47	31	64	11	39	4	2.11	1.05	1.27	11.40	93	49.60	120	87	55	0	3	3	2	
MD BALTIMORE	53	34	72	24	44	1	1.56	0.82	1.19	10.74	107	49.01	128	77	53	0	2	3	1	
MA BOSTON	49	35	65	23	42	0	1.85	0.95	1.44	11.80	107	38.69	100	89	54	0	3	4	1	
MA WORCESTER	44	29	62	14	37	1	2.03	1.09	1.13	13.32	101	48.36	107	93	60	0	4	3	2	
MI ALPENA	37	24	52	14	31	0	1.48	1.04	0.91	10.58	149	32.46	123	93	75	0	6	5	1	
MI GRAND RAPIDS	39	27	52	16	33	-2	2.00	1.19	1.22	11.24	110	37.71	110	90	72	0	6	6	2	
MI HOUGHTON LAKE	35	24	48	11	29	-3	1.68	1.22	0.87	9.33	126	29.40	111	91	81	0	6	5	2	
MI LANSING	40	28	54	16	34	-1	1.93	1.30	1.04	8.65	105	35.86	123	82	72	0	6	2	2	
MI MUSKOGON	39	30	54	20	35	0	2.05	1.31	0.98	10.05	107	36.66	122	81	74	0	6	5	2	
MI TRAVERSE CITY	38	26	52	17	32	-2	1.11	0.51	0.66	14.69	162	34.99	114	88	71	0	6	5	1	
MN DULUTH	25	10	40	-9	18	-6	0.21	-0.22	0.08	4.44	51	29.37	98	83	74	0	6	5	0	
MN INT'L FALLS	21	2	36	-20	12	-7	0.08	-0.18	0.03	4.75	75	29.31	126	86	68	0	7	4	0	
MN MINNEAPOLIS	29	13	51	-4	21	-7	0.31	-0.06	0.17	3.55	53	34.56	122	86	74	0	7	5	0	
MN ROCHESTER	31	14	50	-8	22	-5	0.41	0.00	0.13	6.77	93	32.18	106	90	80	0	6	4	0	
MN ST. CLOUD	27	11	40	-6	19	-5	0.26	0.00	0.12	6.60	99	35.96	136	83	62	0	7	4	0	
MS JACKSON	63	38	73	27	50	-3	0.34	-0.90	0.34	8.59	75	52.28	104	90	40	0	4	1	0	
MS MERIDIAN	62	36	71	27	49	-5	0.36	-0.88	0.36	7.16	62	45.61	86	90	48	0	3	1	0	
MS TUPELO	57	35	69	25	46	-3	0.75	-0.55	0.75	16.08	142	52.01	105	80	56	0	3	1	1	
MO COLUMBIA	49	31	68	24	40	1	0.96	0.17	0.64	17.65	178	41.94	111	88	58	0	5	3	1	
MO KANSAS CITY	49	31	65	20	40	1	0.43	-0.08	0.38	12.17	120	38.16	105	80	53	0	5	2	0	
MO SAINT LOUIS	49	34	66	24	42	0	1.56	0.68	0.84	11.72	127	40.69	114	81	63	0	4	3	1	
MO SPRINGFIELD	54	33	72	24	43	1	0.57	-0.51	0.52	14.85	119	36.82	89	77	58	0	5	3	1	
MT BILLINGS	47	27	61	-4	37	6	0.49	0.35	0.31	1.44	44	13.32	95	78	49	0	5	2	0	
MT BUTTE	41	27	51	8	34	11	0.67	0.56	0.42	2.80	116	14.27	117	85	46	0	5	4	0	
MT CUT BANK	39	16	51	-14	27	1	0.01	-0.07	0.01	1.62	81	14.13	117	83	49	0	7	1	0	
MT GLASGOW	30	11	38	-15	20	-3	0.38	0.32	0.17	2.00	99	14.95	138	83	74	0	7	5	0	
MT GREAT FALLS	39	17	57	-14	28	-1	0.75	0.64	0.51	2.54	94	18.98	134	89	48	0	7	3	1	
MT HAVRE	35	18	54	-9	27	2	0.08	0.00	0.04	2.07	104	11.37	105	84	72	0	7	4	0	
MT MISSOULA	44	30	57	14	37	8	0.78	0.56	0.45	4.11	149	14.16	113	92	73	0	6	4	0	
NE GRAND ISLAND	52	20	78	15	36	4	0.00	-0.24	0.00	4.49	86	26.68	106	78	45	0	6	0	0	
NE LINCOLN	51	23	75	12	37	3	0.00	-0.32	0.00	9.79	154	33.49	122	74	62	0	6	0	0	
NE NORFOLK	48	20	77	13	34	3	0.05	-0.23	0.05	3.28	61	28.50	110	81	63	0	7	1	0	
NE NORTH PLATTE	53	19	73	10	36	5	0.02	-0.10	0.02	2.20	67	20.48	107	85	32	0	7	1	0	
NE OMAHA	45	24	66	15	35	2	0.02	-0.36	0.02	8.81	124	37.46	128	78	56	0	6	1	0	
NE SCOTTSBLUFF	51	20	67	10	35	4	0.14	-0.03	0.13	5.71	192	17.75	113	85	44	0	7	2	0	
NE VALENTINE	49	21	71	15	35	6	0.00	-0.13	0.00	1.85	53	20.88	109	77	49	0	7	0	0	
NV ELY	54	20	63	8	37	6	0.00	-0.10	0.00	1.24	49	8.50	90	60	42	0	6	0	0	
NV LAS VEGAS	67	44	78	40	55	3	0.00	-0.06	0.00	0.64	82	1.51	38	30	18	0	0	0	0	
NV RENO	61	32	73	24	47	9	0.09	-0.10	0.09	0.93	60	4.21	65	67	45	0	4	1	0	
NV WINNEMUCCA	56	30	66	18	43	9	0.01	-0.16	0.01	2.51	134	7.09	96	73	44	0	4	1	0	
NH CONCORD	48	27	66	5	37	3	1.43	0.75	1.03	7.73	78	40.68	118	94	61	0	5	2	1	
NJ NEWARK	52	35	74	22	44	1	1.47	0.55	1.10	9.80	90	44.42	105	73	52	0	4	3	1	
NM ALBUQUERQUE	56	29	65	18	43	2	0.00	-0.10	0.00	1.61	61	7.67	86	51	22	0	5	0	0	
NY ALBANY	46	29	70	15	38	2	1.12	0.40	0.71	7.54	78	34.32	97	84	55	0	4	4	1	
NY BINGHAMTON	48	28	66	14	38	4	0.83	0.03	0.50	7.29	75	36.31	102	82	56	0	4	4	1	
NY BUFFALO	44	31	65	21	37	0	0.36	-0.58	0.17	10.27	96	40.21	110	80	56	0	4	4	0	
NY ROCHESTER	45	33	70	24	39	2	0.24	-0.43	0.09	5.46	63	30.48	98	75	62	0	4	4	0	
NY SYRACUSE	44	32	72	22	38	1	0.62	-0.29	0.27	8.44	77	37.48	102	84	57	0	4	5	0	
NC ASHEVILLE	53	35	67	24	44	0	2.53	1.66	2.05	13.73	130	44.50	102	86	57	0	3	3	1	
NC CHARLOTTE	59	40	74	25	49	-1	2.83	2.10	1.72	9.08	85	42.84	107	83	42	0	2	3	2	
NC GREENSBORO	56	38	72	26	47	0	1.94	1.25	0.97	8.21	79	34.09	85	89	50	0	3	4	2	
NC HATTERAS	63	44	72	29	53	-2	1.67	0.64	0.66	18.34	116	59.39	112	94	71	0	1	4	2	
NC RALEIGH	57	38	72	26	47	-2	2.49	1.81	1.58	11.87	116	50.28	126	83	63	0	2	5	2	
NC WILMINGTON	63	44	73	30	53	-1	3.60	2.77	2.20	12.27	94	54.79	103	96	65	0	2	4	2	
ND BISMARCK	25	4	40	-12	15	-8	0.28	0.17	0.17	1.14	32	13.83	85	84	69	0	7	4	0	
ND DICKINSON	35	11	48	-3	23	-2	0.02	-0.06	0.02	2.02	57	21.79	136	88	68	0	7	1	0	
ND FARGO	24	4	45	-13	14	-8	0.13	-0.03	0.06	3.37	65	19.83	96	83	64	0	7	4	0	
ND GRAND FORKS	21	1	45	-17	11	-10	0.07	-0.08	0.03	1.97	43	22.84	120	87	66	0	7	3	0	
ND JAMESTOWN	22	-2	41	-28	10	-12	0.17	0.06	0.12	2.32	61	21.00	117	89	63	0	7	3	0	
ND WILLISTON	28	5	40	-12	17	-4	0.43	0.29	0.18	2.23	80	10.66	79	83	76	0	7	6	0	
OH AKRON-CANTON	45	30	64	19	38	0	0.69	-0.05	0.49	7.47	85	43.26	123	81	60	0	5	4	0	
OH CINCINNATI	48	32	62	25	40	-2	0.88	0.08	0.81	8.13	90	38.59	99	72	57	0	5	2	1	
OH CLEVELAND	45	31	63	20	38	-1	0.91	0.08	0.57	10.65	110	41.89	119	81	61	0	5	3	1	
OH COLUMBUS	46	31	64	21	39	-2	0.35	-0.42	0.29	4.91	60	35.42	100	78	58	0	5	3	0	
OH DAYTON	46	30	64	18	38	-1	1.19	0.42	0.97	5.18	61	33.07	91	86	60	0	5	2	1	
OH MANSFIELD	44	30	61	20	37	0	0.64	-0.26	0.39	5.16	53	34.38	86	90	62	0	5	4	0	

Based on 1971

Weather Data for the Week Ending November 29, 2014

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 SEP 1	PCT. NORMAL SINCE SEP 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
OK TOLEDO	43	28	58	15	36	-1	1.03	0.37	0.79	9.41	121	30.60	101	80	67	0	5	3	1
OK YOUNGSTOWN	45	30	65	19	38	0	0.54	-0.23	0.25	7.37	80	36.93	106	81	62	0	5	4	0
OK OKLAHOMA CITY	62	38	75	30	50	5	0.03	-0.41	0.03	6.82	71	27.54	81	69	31	0	2	1	0
OR TULSA	60	37	77	25	49	3	0.04	-0.74	0.04	9.14	75	27.65	69	73	45	0	2	1	0
OR ASTORIA	56	45	61	31	50	5	1.54	-1.08	0.59	20.02	111	62.33	111	93	83	0	1	6	1
OR BURNS	47	27	52	21	37	7	0.06	-0.22	0.05	2.48	112	8.47	92	88	80	0	6	2	0
OR EUGENE	56	43	62	31	49	6	0.83	-1.32	0.59	11.22	88	33.78	80	90	80	0	1	4	1
OR MEDFORD	54	41	59	39	47	6	0.75	0.01	0.48	6.58	138	17.97	118	95	72	0	0	2	0
OR PENDLETON	57	41	62	19	49	11	0.10	-0.29	0.07	2.15	69	10.47	94	70	57	0	1	3	0
OR PORTLAND	56	47	63	30	52	8	1.12	-0.30	0.51	9.91	101	34.05	110	91	81	0	1	5	1
OR SALEM	57	46	62	32	51	8	1.84	0.22	1.12	11.87	114	34.31	104	87	74	0	1	4	1
PA ALLENTOWN	48	30	71	15	39	0	1.58	0.71	1.04	7.08	63	41.06	99	76	51	0	3	4	1
PA ERIE	46	33	67	24	40	0	0.33	-0.61	0.14	10.41	84	38.19	98	73	57	0	3	4	0
PA MIDDLETOWN	49	32	69	22	40	-1	1.32	0.47	0.78	6.72	69	40.39	109	89	50	0	5	3	1
PA PHILADELPHIA	53	37	72	26	45	1	1.32	0.55	0.95	8.29	87	44.10	114	68	53	0	3	2	1
PA PITTSBURGH	47	31	68	22	39	0	0.32	-0.42	0.23	4.65	56	34.02	98	88	56	0	5	4	0
PA WILKES-BARRE	47	29	70	12	38	-1	1.07	0.34	0.73	6.72	68	28.09	81	80	52	0	4	4	1
PA WILLIAMSPORT	46	30	69	19	38	0	1.02	0.17	0.60	5.48	52	34.29	89	81	55	0	6	4	1
RI PROVIDENCE	50	33	65	20	42	1	2.88	1.87	1.53	9.08	78	40.27	96	88	53	0	3	3	2
SC BEAUFORT	63	47	76	32	55	-1	5.18	4.62	2.26	11.86	111	48.21	104	92	61	0	1	4	2
SC CHARLESTON	64	46	78	30	55	-1	4.23	3.60	2.00	14.27	123	49.59	103	91	61	0	1	4	3
SC COLUMBIA	61	43	74	28	52	0	3.16	2.52	2.12	10.24	107	38.32	86	87	60	0	2	4	2
SC GREENVILLE	58	39	72	26	49	0	3.13	2.27	2.43	11.61	101	46.26	100	89	43	0	3	3	2
SD ABERDEEN	28	3	41	-15	16	-9	0.11	0.02	0.10	1.90	45	17.53	88	82	70	0	7	2	0
SD HURON	33	9	42	-6	21	-6	0.02	-0.12	0.02	2.11	50	15.67	77	88	61	0	7	1	0
SD RAPID CITY	44	20	64	6	32	2	0.00	-0.07	0.00	4.22	138	20.81	128	81	52	0	7	0	0
SD SIOUX FALLS	35	11	58	-7	23	-4	0.22	-0.02	0.13	3.51	60	27.91	116	85	69	0	7	3	0
TN BRISTOL	52	32	72	23	42	-1	0.79	0.01	0.38	10.02	122	35.06	93	92	51	0	4	3	0
TN CHATTANOOGA	57	37	71	26	47	-1	1.39	0.18	1.37	12.23	101	40.87	83	79	46	0	2	3	1
TN KNOXVILLE	55	35	70	24	45	-1	0.57	-0.45	0.32	8.17	87	37.42	86	80	45	0	3	3	0
TN MEMPHIS	57	39	67	29	48	-1	0.62	-0.88	0.62	11.31	95	55.04	113	79	47	0	3	1	1
TN NASHVILLE	54	34	63	22	44	-2	0.58	-0.55	0.52	11.98	113	47.38	110	84	44	0	3	2	1
TX ABILENE	66	40	76	32	53	3	0.00	-0.22	0.00	3.99	56	14.49	64	72	38	0	1	0	0
TX AMARILLO	63	31	83	25	47	5	0.08	-0.01	0.08	5.58	138	19.27	101	69	22	0	5	1	0
TX AUSTIN	72	40	82	33	56	-1	0.00	-0.53	0.00	11.86	125	27.41	88	83	49	0	0	0	0
TX BEAUMONT	70	46	77	39	58	0	1.22	0.09	1.22	13.31	87	48.71	90	95	39	0	0	1	1
TX BROWNSVILLE	76	51	86	42	63	-2	0.02	-0.31	0.02	17.62	163	27.14	103	92	51	0	0	1	0
TX CORPUS CHRISTI	74	50	81	42	62	-1	0.00	-0.33	0.00	14.48	136	28.32	93	90	51	0	0	0	0
TX DEL RIO	72	40	83	34	56	-1	0.00	-0.18	0.00	8.73	176	15.45	89	85	46	0	0	0	0
TX EL PASO	65	35	73	30	50	0	0.00	-0.11	0.00	5.32	195	8.45	99	39	14	0	3	0	0
TX FORT WORTH	66	41	77	35	54	2	0.00	-0.50	0.00	4.27	47	20.18	63	75	31	0	0	0	0
TX GALVESTON	69	56	74	52	62	-1	0.35	-0.53	0.35	11.77	93	28.01	70	89	51	0	0	1	0
TX HOUSTON	72	48	80	39	60	2	0.24	-0.67	0.24	10.26	80	38.15	87	82	43	0	0	1	0
TX LUBBOCK	65	32	80	25	48	3	0.00	-0.14	0.00	10.64	216	22.54	126	68	29	0	3	0	0
TX MIDLAND	66	37	77	32	52	3	0.00	-0.11	0.00	2.71	58	7.45	53	67	30	0	1	0	0
TX SAN ANGELO	69	39	78	28	54	3	0.00	-0.19	0.00	4.37	66	16.35	82	78	32	0	2	0	0
TX SAN ANTONIO	72	45	81	39	58	1	0.00	-0.49	0.00	10.94	116	27.00	87	79	32	0	0	0	0
TX VICTORIA	75	47	85	42	61	1	0.00	-0.55	0.00	9.09	77	27.97	74	83	40	0	0	0	0
TX WACO	69	39	79	30	54	0	0.00	-0.59	0.00	8.98	99	29.56	97	88	40	0	1	0	0
TX WICHITA FALLS	64	38	78	30	51	2	0.00	-0.33	0.00	7.02	89	22.83	84	74	43	0	1	0	0
UT SALT LAKE CITY	54	37	66	29	46	10	0.01	-0.29	0.01	3.08	73	13.03	86	60	32	0	3	1	0
VT BURLINGTON	45	29	67	12	37	3	0.94	0.27	0.47	7.80	79	33.50	99	83	55	0	4	5	0
VA LYNCHBURG	52	33	71	22	43	-1	1.81	1.07	1.10	7.62	74	41.61	104	92	55	0	5	2	2
VA NORFOLK	59	40	80	27	50	0	2.69	2.04	1.78	14.18	136	46.60	109	91	56	0	2	5	1
VA RICHMOND	57	39	75	26	48	1	1.71	1.04	1.31	6.93	66	32.60	80	83	55	0	2	5	1
VA ROANOKE	50	33	71	25	42	-3	2.29	1.55	1.45	8.34	83	36.90	94	82	54	0	5	3	2
WA WASH/DULLES	51	35	70	23	43	0	1.61	0.86	1.20	6.61	64	42.80	111	84	57	0	4	3	1
WA OLYMPIA	53	42	59	20	48	7	3.08	1.07	0.85	16.12	116	48.53	114	95	86	0	1	7	3
WA QUILLAYUTE	52	42	57	24	47	4	4.14	0.56	0.96	34.81	124	90.65	105	99	92	0	1	7	5
WA SEATTLE-TACOMA	54	43	59	25	48	5	2.87	1.41	1.35	13.82	133	43.69	141	89	80	0	1	7	2
WA SPOKANE	46	32	55	15	39	7	0.31	-0.26	0.17	3.03	78	13.04	92	93	74	0	3	5	0
WA YAKIMA	54	31	64	19	42	8	0.01	-0.26	0.01	1.64	89	5.60	83	80	69	0	4	1	0
WV BECKLEY	47	31	68	22	39	-2	0.69	-0.01	0.39	9.71	114	37.10	97	78	56	0	4	3	0
WV CHARLESTON	51	33	74	26	42	-1	0.35	-0.54	0.27	11.18	117	43.32	107	82	48	0	3	3	0
WV ELKINS	47	26	70	15	36	-3	0.75	-0.08	0.56	10.15	103	38.38	90	94	59	0	6	4	1
WV HUNTINGTON	52	34	70	27	43	0	0.23	-0.57	0.19	10.96	127	45.38	117	82	48	0	3	2	0
WI EAU CLAIRE	31	16	50	-2	24	-3	0.14	-0.25	0.07	8.56	110	41.23	133	87	71	0	6	2	0
WI GREEN BAY	34	17	49	-1	25	-5	0.99	0.50	0.52	9.48	127	30.20	109	93	77	0	6	6	1
WI LA CROSSE	36	20	53	7	28	-3	0.55	0.10	0.28	7.06	94	36.54	118	87	64	0	6	4	0
WI MADISON	34	18	50	6	26	-6	1.10	0.59	0.70	6.47	87	34.28	110	88	80	0	6	3	1
WI MILWAUKEE	37	23	50	14	30	-5	1.10	0.48	0.74	5.75	69	31.04	96	83	72	0	6	3	1
WY CASPER	46	21	58	8	34	6	0.20	0.03	0.10	2.45	85	10.82	88	67	44	0	5	2	0
WY CHEYENNE	47	27	62	14	37	6	0.13	-0.01	0.08	3.17	115	16.83	113	57	36	0	5	3	0
WY LANDER	51	30	64	19	40	14	0.03	-0.13	0.02	2.87	85	9.88	78	67	29	0	4	2	0
WY SHERIDAN	46	23	63	1	34	7	0.65	0.51	0.37	3.20	90	14.26	102	76	50	0	6	4	0

Based on 1971-2000 normals

\*\*\* Not Available

## National Agricultural Summary

November 24 - 30, 2014

*Weekly National Agricultural Summary provided by USDA/NASS*

Higher-than-average temperatures were recorded for the week in the western U.S. and along the northern Atlantic Coast. A pocket north of the Missouri River saw cool weather, with some locations in Minnesota and the Dakotas recording temperatures more than 9°F below normal. Precipitation levels were generally close to average across the nation, although higher amounts were observed in the Southeast and Pacific Northwest.

States with corn left to be harvested saw slow progress due to cold weather and snow across the Corn Belt. Indiana producers harvested an additional 3 percent of the corn crop to reach 94 percent overall. Corn in Wisconsin was more than three-fourths (78 percent) harvested, 8 percentage points behind last year and 12 points behind the 5-year average.

By November 30, North Carolina winter wheat was 75 percent emerged, advancing 13 percentage points from last week. The 2015 winter wheat crop was 93 percent emerged in Ohio, 2 percentage points ahead of the previous week. Winter wheat condition ratings were generally stable, with increases in the good to excellent ratings in Montana, North Carolina, and Ohio, and decreases in California, Indiana, and Michigan.

In California, field preparation and planting of winter wheat for grain and silage continued. Earlier plantings were sprouting with the help of recent rains. Cotton harvest was nearing completion. Modules were being moved to the gins. Harvested fields were shredded and disked to comply with the Cotton Plowdown Regulations. The last cutting of alfalfa for silage was ongoing. Pasture and rangeland condition was 70 percent poor to fair. Olive oil processing continued. Stone fruit orchard pruning and fertilization continued. Older orchards were pushed out to make way for new plantings. Some late-variety grapes were sent to wineries for crushing. Table grape harvest was nearly complete and pruning began. Kiwifruit harvest continued, with domestic sales and exports to Mexico and Panama. Persimmons were sold at roadside stands or shipped to Mexico. The harvesting of navel and Mandarin oranges, grapefruit, and limes continued. Growers were treating groves for fungal diseases and Fuller

Rose Beetle to maintain export quality. Pruning of almonds and pistachios continued. Walnut harvest was nearly complete, with harvested orchards receiving post-harvest irrigation and pruning. Harvesting continued for spinach, broccoli, lettuce, and onions. In most areas, winter vegetable field preparation and planting has been completed and the planting of spring vegetables has begun. Recent rain improved range conditions; however, supplemental livestock feeding continued. Sheep continued to feed in cut alfalfa fields.

In Florida, cotton and soybean harvest was nearing completion in the Panhandle and north Florida. In Glades and Hendry counties, sugarcane harvest continued. Vegetable harvesting in southwest Florida increased. The pasture condition worsened during the last week of November. Pasture in the Panhandle and north Florida was in poor condition due to hard frosts. Farmers were feeding hay to their cattle. Central and southwest Florida received large amounts of rain, with standing water and localized flooding noted. Statewide, the cattle condition was mostly good while pasture condition was fair to good. All areas of the citrus region received at least an inch of rain except the southernmost monitored stations in Immokalee (Collier County), which received only one-third of an inch, and Clewiston (Hendry County), which measured about nine-tenths of an inch. Most central citrus producing counties received about 2 to 3 inches of rainfall, while northern counties received slightly more. All packinghouses closed for Thanksgiving Day observation, accounting for weekly harvest at lower levels. Early orange harvest surpassed all other varieties, and was expected to increase significantly the first couple weeks of December. It was currently the only variety being harvested primarily for the processed market. White and colored grapefruit still had about two-thirds of its harvested fruit going fresh. Sunburst tangerines and Navel oranges were also mainly for the fresh market. Fruit quality was overall good this season, even though much of it was on the small side. Grove activity included irrigation, mowing, spraying and fertilizing. Field workers across the citrus growing region reported new groves and resets being planted, and old, non-productive groves being pushed.

**International Weather and Crop Summary**

**November 23-29, 2014**

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

**EUROPE:** Unsettled weather in the south and west contrasted with dry but colder conditions in eastern Europe.

**FSU-WESTERN:** Snow afforded dormant winter grains adequate protection from persistent early-season cold.

**MIDDLE EAST:** Rain and mountain snow boosted moisture supplies for winter grains and further improved spring runoff prospects.

**NORTHWEST AFRICA:** Locally heavy rain benefited winter grain establishment over western growing areas, while sunny, warm conditions accelerated fieldwork in the east.

**SOUTHEAST ASIA:** Tropical Cyclone Sinlaku brought heavier-than-usual rainfall to much of the southern Philippines.

**AUSTRALIA:** Widespread showers and cooler weather benefited vegetative summer crops.

**SOUTH AFRICA:** Rain intensified across the corn belt, increasing moisture reserves for emerging to vegetative summer crops.

**ARGENTINA:** Scattered locally heavy rain sustained local delays in summer crop harvesting.

**BRAZIL:** Heavy rain improved prospects for soybeans in key central production areas.

**November 2014**

COUNTRY	CITY	TEMPERATURE (C)					PRECIP. (MM)		
		AVG MAX	AVG MIN	HI MAX	LO MIN	AVG	DEP NRM	TOT	DEP NRM
ALGERI	ALGER	23	13	31	8	18	3	69	-12
	BATNA	20	7	26	2	13	2.8	6	-11
ARGENT	IGUAZU	30	19	33	14	24	0.1	194	57
	FORMOSA	30	20	36	14	25	0.4	216	47
	CERES	29	16	37	9	23	0.6	337	236
	CORDOBA	28	12	35	5	20	-0.8	107	-2
	RIO CUARTO	26	14	36	5	20	0.3	94	-39
	ROSARIO	28	15	35	9	21	0.8	156	46
	BUENOS AIRES	26	14	34	6	20	0.9	219	126
	SANTA ROSA	27	12	37	6	19	0.1	56	-40
	TRES ARROYOS	24	12	32	3	18	1.4	117	32
AUSTRA	DARWIN	33	25	34	23	29	0.1	180	46
	BRISBANE	27	21	31	18	24	1.8	186	79
	PERTH	26	13	38	8	20	0.2	26	0
	CEDUNA	27	14	43	4	21	1.6	0	-20
	ADELAIDE	25	14	36	9	19	1.2	14	-7
	MELBOURNE	24	11	36	5	17	1.7	42	-8
	WAGGA	30	12	41	3	21	2.9	48	7
	CANBERRA	28	10	39	3	19	3.3	28	-38
AUSTRI	VIENNA	10	6	19	1	8	3.7	23	-23
	INNSBRUCK	13	4	18	-1	9	5.7	61	-5
BAHAMA	NASSAU	28	22	31	18	25	0.8	71	4
BARBAD	BRIDGETOWN	30	24	31	21	27	0	273	141
BELARU	MINSK	3	-1	15	-10	1	0.6	10	-39
BERMUD	ST GEORGES	24	20	27	14	22	0.1	226	135
BOLIVI	LA PAZ	18	2	21	-2	10	0	28	-26
BRAZIL	FORTALEZA	30	25	31	24	28	-0.7	9	-16
	RECIFE	29	25	30	22	27	-1.6	32	4
	CAMPO GRANDE	29	20	34	15	24	-1.2	191	40
	FRANCA	28	19	32	16	24	1.1	222	69
	RIO DE JANEIR	30	22	37	17	26	0.8	43	-56
	LONDRINA	31	19	34	15	25	2.4	112	-57
	SANTA MARIA	30	17	37	11	24	1.6	60	-64
	TORRES	25	18	30	13	22	-1.1	75	-67
BULGAR	SOFIA	10	4	18	-3	7	2.4	35	-8
BURKIN	OUAGADOUGOU	37	21	39	17	29	1.5	0	-3
CANADA	TORONTO	6	-2	18	-10	2	-1.2	44	-26
	MONTREAL	5	-1	18	-8	2	0.3	51	-41
	WINNIPEG	-5	-13	10	-29	-9	-3.5	0	-22
	REGINA	-4	-13	11	-30	-8	-3	0	-13
	SASKATOON	-6	-13	8	-31	-9	-3.1	0	-13
	LETHBRIDGE	***	***	***	***	***	*****	*****	*****
	CALGARY	0	-10	16	-25	-5	-2.3	43	31
	EDMONTON	-3	-11	9	-30	-7	-2.9	20	5
	VANCOUVER	9	2	16	-9	6	-0.2	182	2
CANARY	LAS PALMAS	25	19	28	15	22	1.3	44	27
CHILE	SANTIAGO	26	10	32	5	18	0.9	3	-2
CHINA	HARBIN	3	-7	12	-15	-2	3.4	1	-9
	HAMI	8	-5	18	-15	2	1.5	2	1
	LANCHOW	***	***	4	4	***	*****	*****	*****
	BEIJING	12	1	20	-2	7	2	0	-7
	TIENTSIN	13	3	20	-3	8	1.8	0	-9
	LHASA	15	-2	19	-7	6	2.8	2	1
	KUNMING	20	9	24	3	14	2.2	32	-10
	CHENGCHOW	15	6	21	1	10	2.4	18	-5
	YECHANG	15	10	21	7	12	-0.4	79	33
	HANKOW	16	8	22	4	12	0.1	141	93
	CHUNGKING	16	13	20	10	14	-0.1	88	40
	CHIHKIANG	15	11	22	6	13	0.7	71	17
	WU HU	17	10	23	4	14	1.9	124	65
	SHANGHAI	18	12	23	4	15	1.5	35	-18
	NANCHANG	18	13	25	8	15	1.8	100	43
	TAIPEI	25	20	31	17	23	1	73	0
	CANTON	25	17	31	13	21	1.2	36	1
	NANNING	23	17	30	11	20	0.7	75	34
COLOMB	BOGOTA	19	9	21	5	14	0.8	85	-3
COTE D	ABIDJAN	30	25	31	22	28	-0.2	197	66
CUBA	HAVANA	27	18	30	9	23	-1.4	0	-86
CYPRUS	LARNACA	23	13	26	8	18	0.6	21	-33
CZECHR	PRAGUE	8	4	15	-2	6	3.2	23	-6

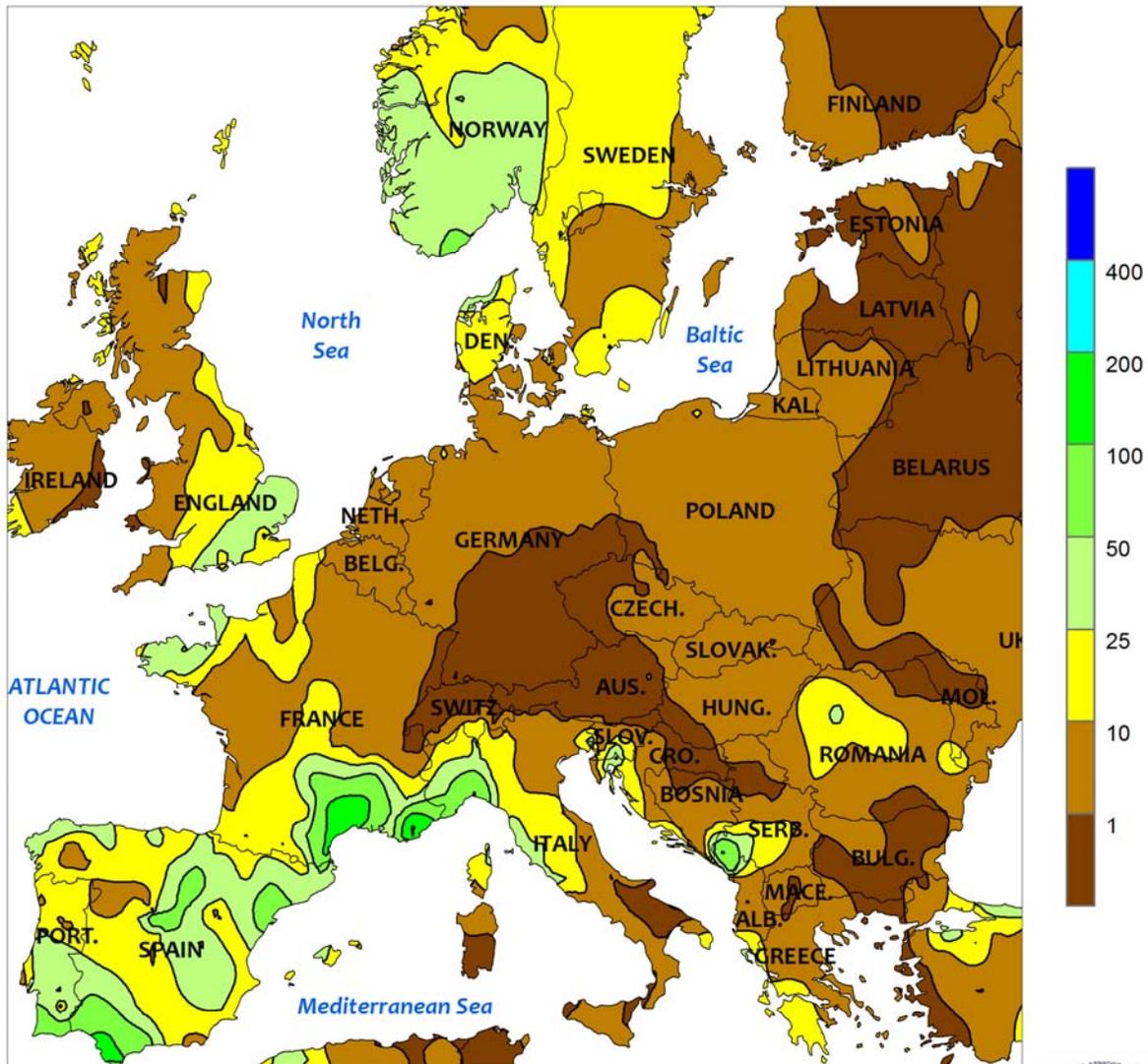
Based on Preliminary Reports

## November 2014

COUNTRY	CITY	TEMPERATURE (C)					PRECIP. (MM)			COUNTRY	CITY	TEMPERATURE (C)					PRECIP. (MM)			
		AVG MAX	AVG MIN	HI MAX	LO MIN	DEP AVG	NRM	TOT	DEP			AVG MAX	AVG MIN	HI MAX	LO MIN	DEP AVG	NRM	TOT	DEP	
DENMAR	COPENHAGEN	10	7	14	2	8	3.5	43	-2			ORIZABA	21	14	30	6	18	0.2	95	19
EGYPT	CAIRO	24	16	31	12	20	0.6	4	-1	MOROCC	CASABLANCA	22	15	26	12	18	2.2	184	131	
	ASWAN	30	16	35	11	23	1.3	0	0		MARRAKECH	22	13	32	9	17	0.9	141	117	
ESTONI	TALLINN	3	1	10	-9	2	0.9	38	-31	MOZAMB	MAPUTO	29	20	39	16	24	0	59	-15	
ETHIOP	ADDIS ABABA	***	***	24	7	***	*****	*****	*****	N KORE	PYONGYANG	12	2	20	-6	7	2.5	38	-3	
F GUIA	CAYENNE	32	23	33	22	27	1.1	201	48	NEW CA	NOUMEA	26	21	29	19	24	0.0	37	-33	
FIJI	NAUSORI	29	21	31	17	25	0.1	109	-135	NIGER	NIAMEY	38	23	40	19	31	2.5	0	-1	
FINLAN	HELSINKI	3	1	10	-3	2	1.8	32	-39	NORWAY	OSLO	4	2	11	-5	3	3.2	103	16	
FRANCE	PARIS/ORLY	13	7	21	2	10	2.7	57	9	NZEALA	AUCKLAND	19	12	22	8	16	*****	59	*****	
	STRASBOURG	11	6	19	-1	8	3.2	49	0		WELLINGTON	18	12	24	7	15	*****	35	*****	
	BOURGES	14	8	22	2	11	4.2	91	29	P RICO	SAN JUAN	30	24	34	22	27	0.8	266	109	
	BOURDEAUX	17	10	23	5	13	4.4	120	16	PAKIST	KARACHI	33	20	35	17	26	2.3	0	*****	
	TOULOUSE	17	10	23	4	13	4.4	66	16	PERU	LIMA	22	18	25	16	20	0.7	0	-1	
	MARSEILLE	18	12	22	4	15	4.4	134	84	PHILIP	MANILA	32	25	34	24	28	0.2	45	-98	
GABON	LIBREVILLE	29	24	30	22	26	0.6	782	259	PNEWGU	PORT MORESBY	31	25	33	23	28	0.9	36	-18	
GERMAN	HAMBURG	9	5	20	-2	7	2.3	28	-42	POLAND	WARSAW	7	3	19	-8	5	2.2	16	-20	
	BERLIN	9	6	19	-2	8	2.8	6	-38		LODZ	8	4	18	-5	6	3.0	21	-20	
	DUSSELDORF	11	6	20	-2	9	2.1	38	-23		KATOWICE	9	4	19	-4	7	3.6	32	-17	
	LEIPZIG	10	4	19	-3	7	2.6	6	-29	PORTUG	LISBON	16	12	21	9	14	0.1	66	-36	
	DRESDEN	9	5	19	-1	7	2.9	8	-35	ROMANI	BUCHAREST	8	3	20	-3	6	1.0	41	2	
	STUTT GART	10	4	20	0	7	3.0	52	6	RUSSIA	ST.PETERSBURG	2	0	10	-7	1	0.8	42	-12	
	NURNBERG	9	4	18	-2	7	2.6	32	-12		KAZAN	-2	-5	7	-16	-3	0.7	24	-23	
	AUGSBURG	8	3	19	-1	6	2.4	32	-19		MOSCOW	1	-3	9	-13	-1	0.5	26	-32	
GREECE	THESSALONIKA	15	10	18	2	13	2.0	50	-8		YEKATERINBURG	-4	-8	6	-22	-6	0.5	19	-10	
	LARISSA	16	8	21	0	12	1.9	33	-39		OMSK	-5	-11	7	-30	-8	-0.4	34	5	
	ATHENS	19	13	24	8	16	1.1	7	-61		BARNAUL	-5	-10	7	-33	-8	-1.0	52	23	
GUADEL	RAIZET	30	23	31	21	27	0.7	209	14		KHABAROVSK	-4	-12	7	-22	-8	-0.1	55	32	
HONGKO	HONG KONG INT	27	22	30	18	24	2.3	39	4		VLADIVOSTOK	4	-1	12	-10	2	2.6	55	29	
HUNGAR	BUDAPEST	10	5	20	-1	8	3.2	10	-38		VOLGOGRAD	1	-5	9	-15	-2	-1.9	10	-21	
ICELAN	REYKJAVIK	***	***	11	0	***	*****	*****	*****		ASTRAKHAN	5	-3	14	-10	1	-2.1	25	7	
INDIA	AMRITSAR	27	9	29	5	18	0.0	16	9	S AFRI	JOHANNESBURG	23	13	29	7	18	-0.1	131	14	
	NEW DELHI	29	12	32	8	21	0.1	0	-8		BETHAL	24	12	29	6	18	0.6	55	-84	
	AHMEDABAD	34	20	36	15	27	2.1	1	-9		DURBAN	24	19	27	15	21	-0.3	82	-30	
	INDORE	30	17	32	13	23	1.4	0	-15		CAPE TOWN	24	14	31	8	19	1.2	22	4	
	CALCUTTA	30	19	33	13	24	0.1	0	-37	S KORE	SEOUL	14	6	23	-3	10	2.3	44	-18	
	VERAVAL	34	23	35	20	28	2.0	9	-17	SAMOA	PAGO PAGO	30	26	32	22	28	0.3	352	68	
	BOMBAY	35	22	37	18	28	1.1	6	1	SENEGA	DAKAR	29	25	32	21	27	1.2	0	-3	
	POONA	31	16	33	11	24	1.2	26	-1	SPAIN	VALLADOLID	13	7	21	1	10	2.4	82	34	
	BEGAMPET	30	16	32	11	23	-0.2	1	-28		MADRID	15	8	23	0	12	1.6	103	52	
	VISHAKHAPATNA	31	24	34	20	27	1.3	14	-88		SEVILLE	20	13	26	7	16	1.1	142	46	
	MADRAS	30	23	33	21	27	0.3	153	-202	SWITZE	ZURICH	9	5	16	0	7	3.0	78	-11	
	MANGALORE	33	23	34	19	28	0.2	29	-37		GENEVA	11	6	18	2	8	3.2	107	23	
INDONE	SERANG	33	24	35	23	29	0.8	157	8	SYRIA	DAMASCUS	20	6	25	0	13	1.0	10	-13	
IRELAN	DUBLIN	11	5	15	-2	8	0.4	141	76	TAHITI	PAPEETE	30	24	32	22	27	0.7	126	-5	
ITALY	MILAN	14	9	19	3	11	4.2	320	243	TANZAN	DAR ES SALAAM	33	23	35	21	28	1.9	33	-83	
	VERONA	14	8	20	2	11	4.3	147	82	THAILA	PHITSANULOK	33	23	35	19	28	1.5	61	28	
	VENICE	15	10	19	3	13	4.7	172	102		BANGKOK	34	26	36	24	30	2.5	22	-27	
	GENOA	17	13	21	9	15	2.5	545	443	TOGO	LOME	31	26	33	24	28	1.0	0	-22	
	ROME	20	12	23	6	16	3.8	168	72	TRINID	PORT OF SPAIN	32	24	34	22	28	1.1	310	112	
	NAPLES	22	13	26	9	17	4.7	98	-41	TUNISI	TUNIS	24	14	28	12	19	3.3	38	-26	
JAMAIC	KINGSTON	32	25	34	23	29	1.2	34	-55	TURKEY	ISTANBUL	15	10	21	4	13	1.1	51	-30	
JAPAN	SAPPORO	10	3	17	-3	6	1.6	67	-35		ANKARA	12	1	18	-5	7	1.6	32	-8	
	NAGOYA	18	10	24	4	14	1.8	95	16	TURKME	ASHKHABAD	11	4	23	-2	7	-2.4	72	52	
	TOKYO	17	12	22	7	14	1.4	100	8	UKINGD	ABERDEEN	10	6	13	-2	8	2.8	116	33	
	YOKOHAMA	17	11	22	7	14	1.1	91	-8		LONDON	12	7	18	0	10	1.9	129	79	
	KYOTO	18	10	22	4	14	1.3	61	-2	UKRAIN	KIEV	4	0	17	-7	2	0.4	14	-34	
	OSAKA	18	11	23	6	15	1.2	76	12		LVOV	7	1	21	-7	4	2.3	14	-31	
KAZAKH	KUSTANAY	-2	-8	9	-23	-5	1.2	13	-10		KIROVOGRAD	5	-1	18	-9	2	1.0	11	-23	
	TSELINOGRAD	-5	-10	6	-28	-7	-0.7	35	10		ODESSA	6	3	15	-3	5	-0.4	62	20	
	KARAGANDA	-4	-10	14	-29	-7	-1.1	31	4		YALTA	12	7	19	2	10	0.6	56	-6	
KENYA	NAIROBI	26	15	30	13	21	1.5	74	-41		KHARKOV	3	-2	15	-11	1	0.1	11	-32	
LITHUA	KAUNAS	4	1	14	-11	3	1.0	33	-15	UZBEKI	TASHKENT	10	2	23	-3	6	-1.8	68	20	
LUXEMB	LUXEMBOURG	9	5	14	1	7	3.1	58	-20	VENEZU	CARACAS	31	25	34	24	28	0.8	8	-50	
MALAYS	KUALA LUMPUR	32	25	35	23	29	1.9	391	102	YUGOSL	BELGRADE	13	7	23	0	10	3.6	11	-42	
MALI	BAMAKO	36	19	39	14	27	0.1	5	0	ZAMBIA	LUSAKA	32	21	36	17	27	1.6	15	-77	
MARSHA	MAJURO	30	27	31	24	29	1.1	274	-47	ZIMBAB	KADOMA	31	19	36	14	25	-0.6	55	-31	
MARTIN	LAMENTIN	31	25	34	22	28	1.6	332	131											
MAURIT	NOUAKCHOTT	32	21	39	16	26	0.5	0	-3											
MEXICO	GUADALAJARA	22	11	26	4	17	-0.9	13	0											
	TLAXCALA	23	9	26	5	16	1.1	5	-13											

Based on Preliminary Reports

EUROPE  
Total Precipitation (mm)  
NOV 23 - 29, 2014



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

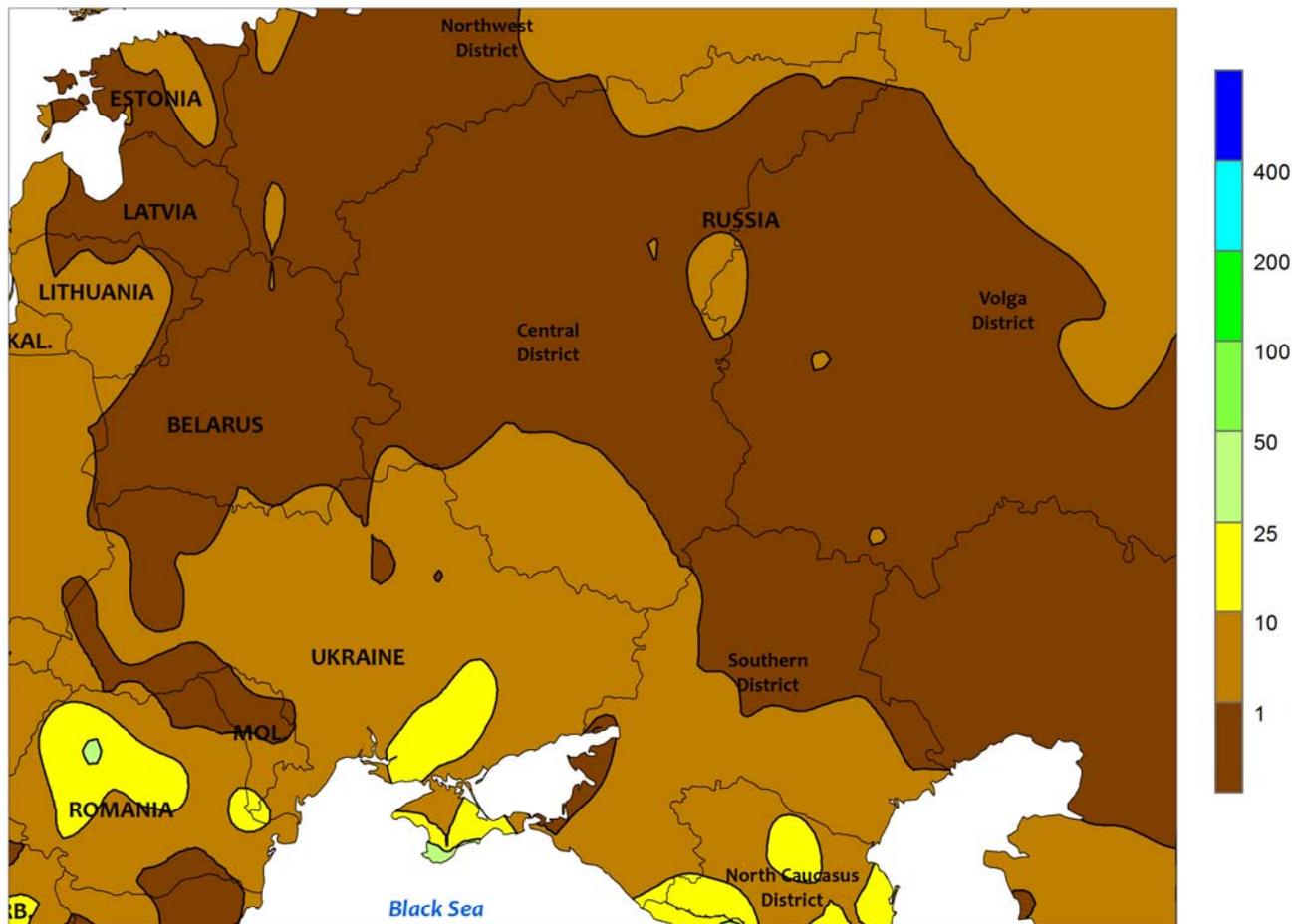


**EUROPE**

Wet weather in southern and western Europe contrasted with dry, colder conditions in eastern growing areas. An area of high pressure remained anchored over northern Eurasia, causing storms to stall over western portions of the continent. Consequently, moderate to heavy showers (10-25 mm, locally more) maintained adequate to abundant moisture reserves for winter wheat and rapeseed in northern France and the southern United Kingdom. Farther south, heavy rain (25-100 mm) over southern portions of Portugal, Spain, and France maintained favorable moisture for winter

wheat and barley and boosted reservoir levels for summer crop irrigation. Rain and mountain snow (5-35 mm liquid equivalent) also persisted over central and northern Italy, sustaining soil moisture for winter wheat and further improving irrigation reserves and spring runoff prospects. Meanwhile, generally dry but colder weather prevailed over the eastern half of the continent, with weekly average temperatures less than 5°C indicating winter crops were approaching or entering dormancy from Germany into Poland and the Balkans.

WESTERN FSU  
Total Precipitation (mm)  
NOV 23 - 29, 2014



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

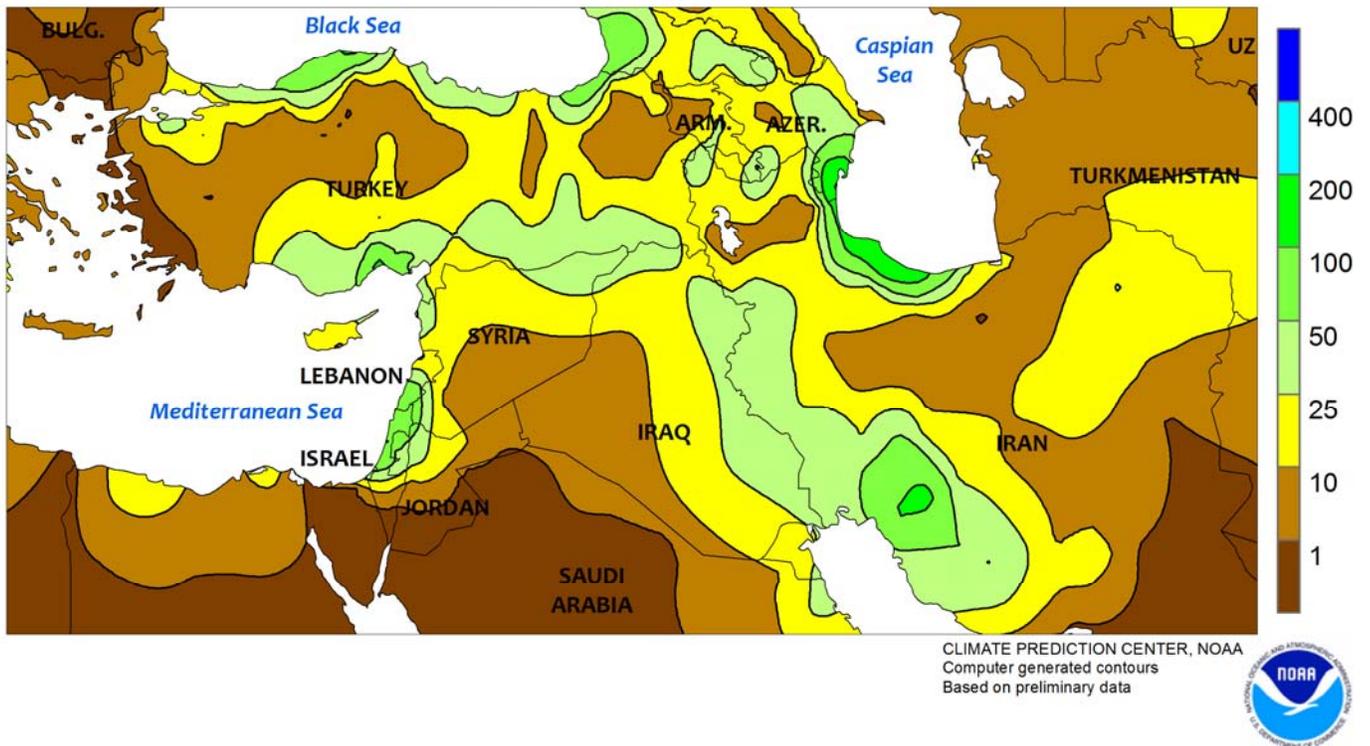


**WESTERN FSU**

Cold, snowy weather maintained favorable conditions for dormant winter grains and oilseeds. Across key southern winter wheat areas of Russia and Ukraine, temperatures averaged 5°C or less, indicating crops were becoming or already dormant. In addition, fresh snowfall (5-20 cm) by week’s end afforded winter wheat insulation against potential incursions of bitter cold. Farther north, winter

grains were also dormant from Belarus and northern Ukraine into central Russia, though crops in these areas were poorly established following an unfavorably dry autumn. In addition, areas along the border between Russia’s Volga, Southern, and Central Districts remained devoid of snow cover, exposing winter crops to this past week’s bitter cold (-20 to -15°C).

MIDDLE EAST  
 Total Precipitation (mm)  
 NOV 23 - 29, 2014

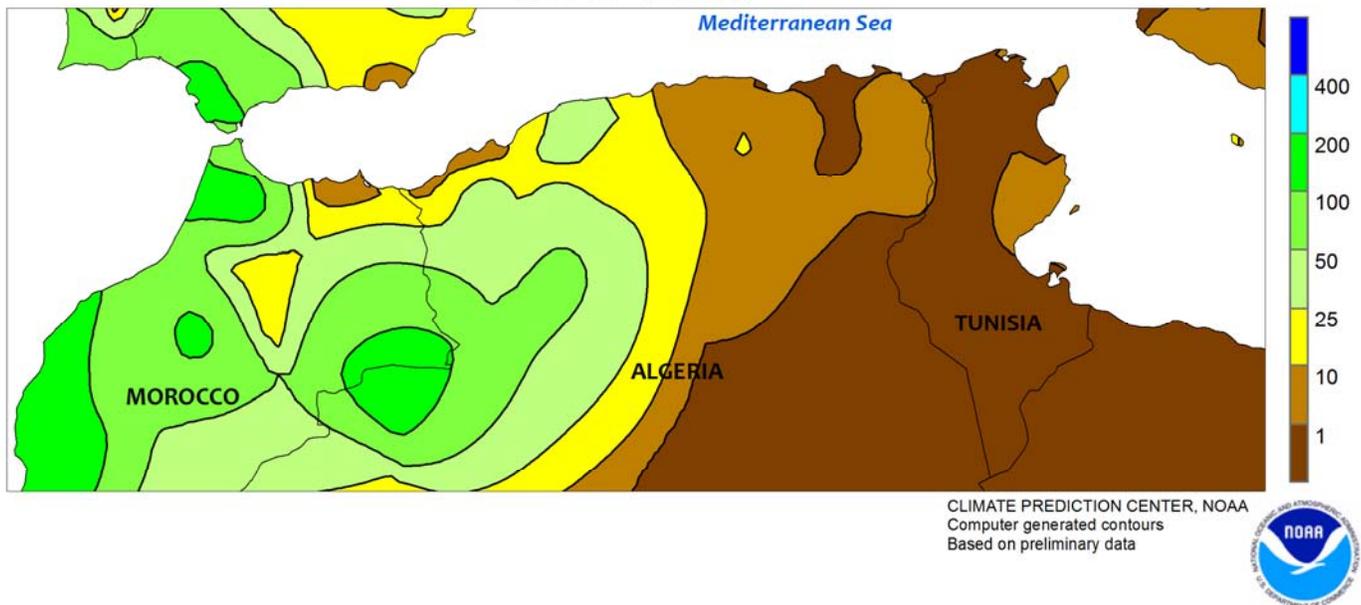


**MIDDLE EAST**

A pair of slow-moving storms generated heavy rain and mountain snow across much of the region, maintaining favorable winter grain prospects but impeding late-autumn fieldwork. A Mediterranean storm produced moderate to heavy rain and high-elevation snow (20-100 mm) across much of Turkey and along the eastern Mediterranean Coast, boosting moisture reserves for vegetative winter crops but hampering late winter grain planting. Rain and mountain snow (10-25 mm liquid equivalent) from this storm spread into Syria as

well as northern and eastern Iraq, benefiting winter crops and maintaining an excellent start to the 2014-15 growing campaign. Meanwhile, a separate storm moving northeast from Saudi Arabia produced 10 to more than 50 mm of rain and mountain snow across much of Iran, sustaining adequate to abundant soil moisture for winter wheat and barley establishment. Temperatures over the region averaged near normal, with winter grains still adding vegetative growth in all but the coldest locales of central Turkey and northwestern Iran.

NORTHWESTERN AFRICA  
Total Precipitation (mm)  
NOV 23 - 29, 2014

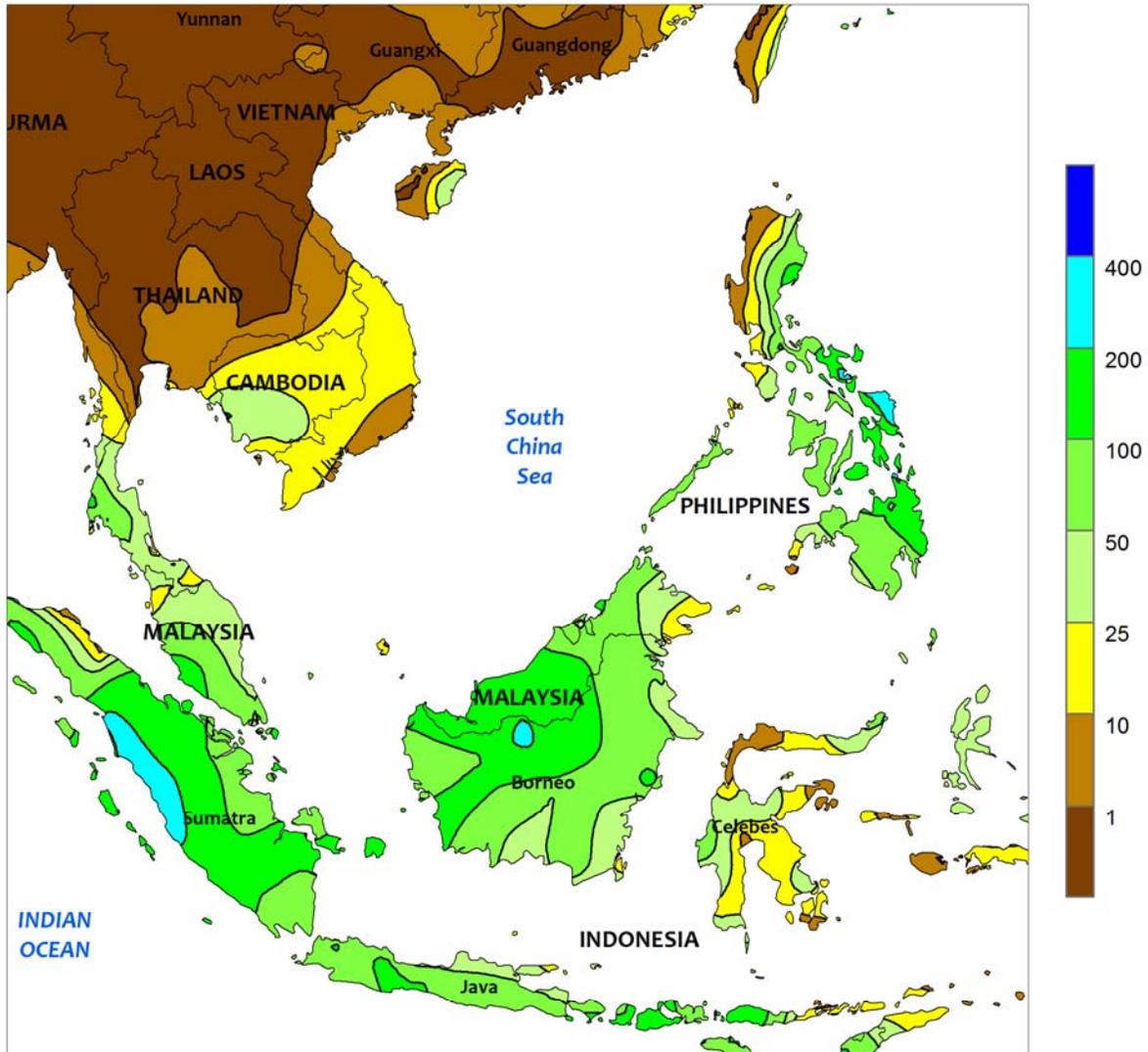


**NORTHWESTERN AFRICA**

A slow-moving Atlantic storm generated locally heavy rain across the western half of the region, while sunny, warm weather prevailed across eastern growing areas. Rainfall totals in Morocco averaged 25 to more than 150 mm, maintaining abundant moisture reserves for winter grains but likely causing localized flooding and necessitating some

winter crop replanting. Moderate to heavy showers (10-25 mm) also fell across western Algeria, sustaining favorable conditions for winter crop establishment. In contrast, sunny skies and above-normal temperature (5-8°C above normal) promoted a rapid winter crop sowing pace but also increased soil moisture evaporative losses.

SOUTHEAST ASIA  
Total Precipitation (mm)  
NOV 23 - 29, 2014



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

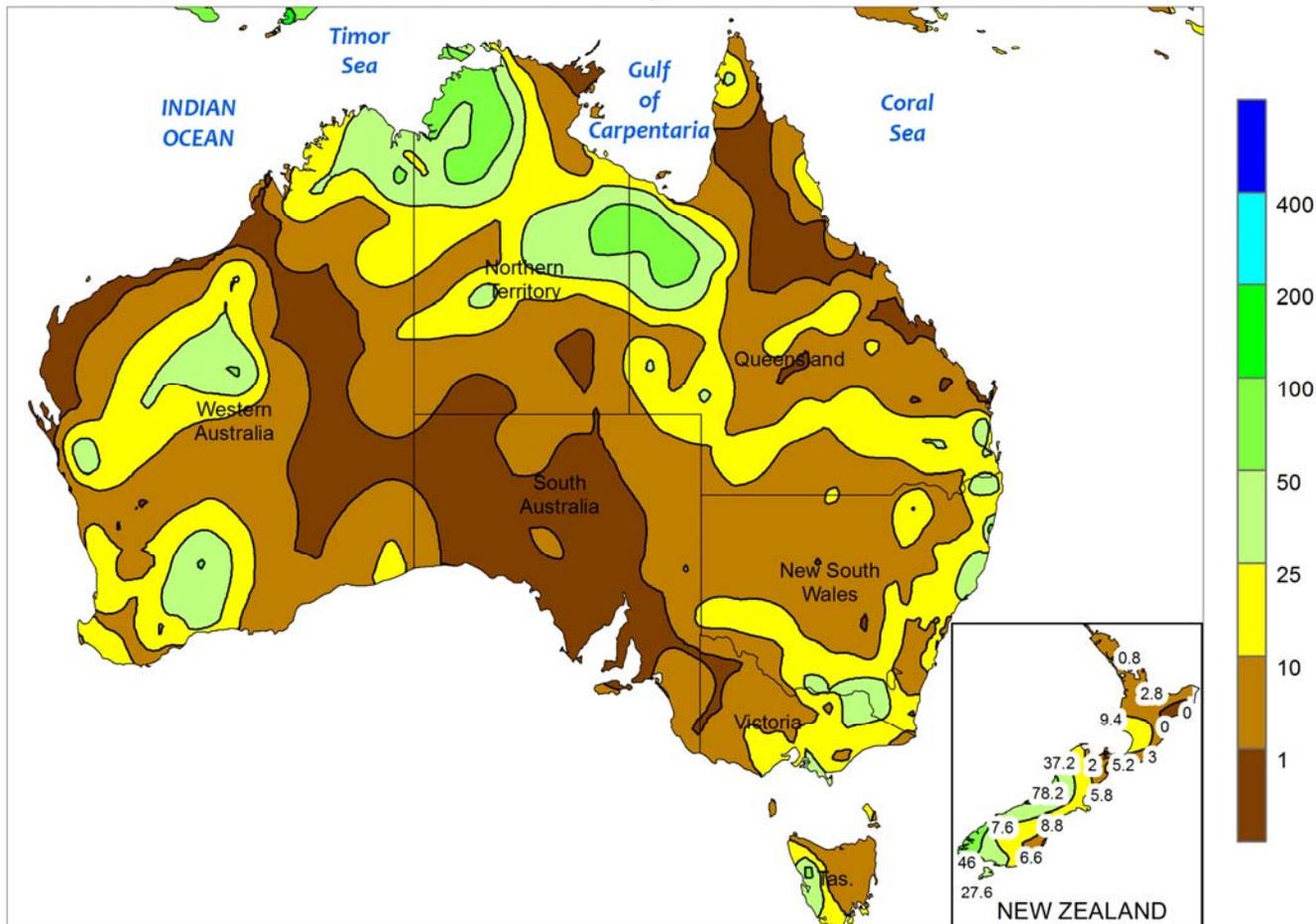


**SOUTH ASIA**

A late-season tropical cyclone (Sinlaku) crossed over the southern Philippines, bringing heavier-than-usual rainfall (weekly totals between 100-200 mm) to much of Mindanao and the lower Visayan Islands. Some localized flooding was likely, although most of the rainfall was considered beneficial to winter corn and rice in the area. Sinlaku moved across the South China Sea and dissipated as it made landfall in central Vietnam, with substantially less rainfall (10-25 mm). The remainder of Vietnam was seasonably dry (as was Indochina

as a whole), with above-normal temperatures across much of Indochina increasing irrigation demands for rice. Meanwhile in southern portions of the region, rainfall (over 90 mm for the week) continued to benefit rice in western Java, Indonesia. In central Java, however, the rainy season continued to exhibit a slow start despite more consistent rainfall recently (over 40 mm during the most recent period). Seasonal rainfall totals (beginning November 1) in central Java remained below average and below last year's amounts for the same period.

AUSTRALIA  
Total Precipitation (mm)  
NOV 23 - 29, 2014



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

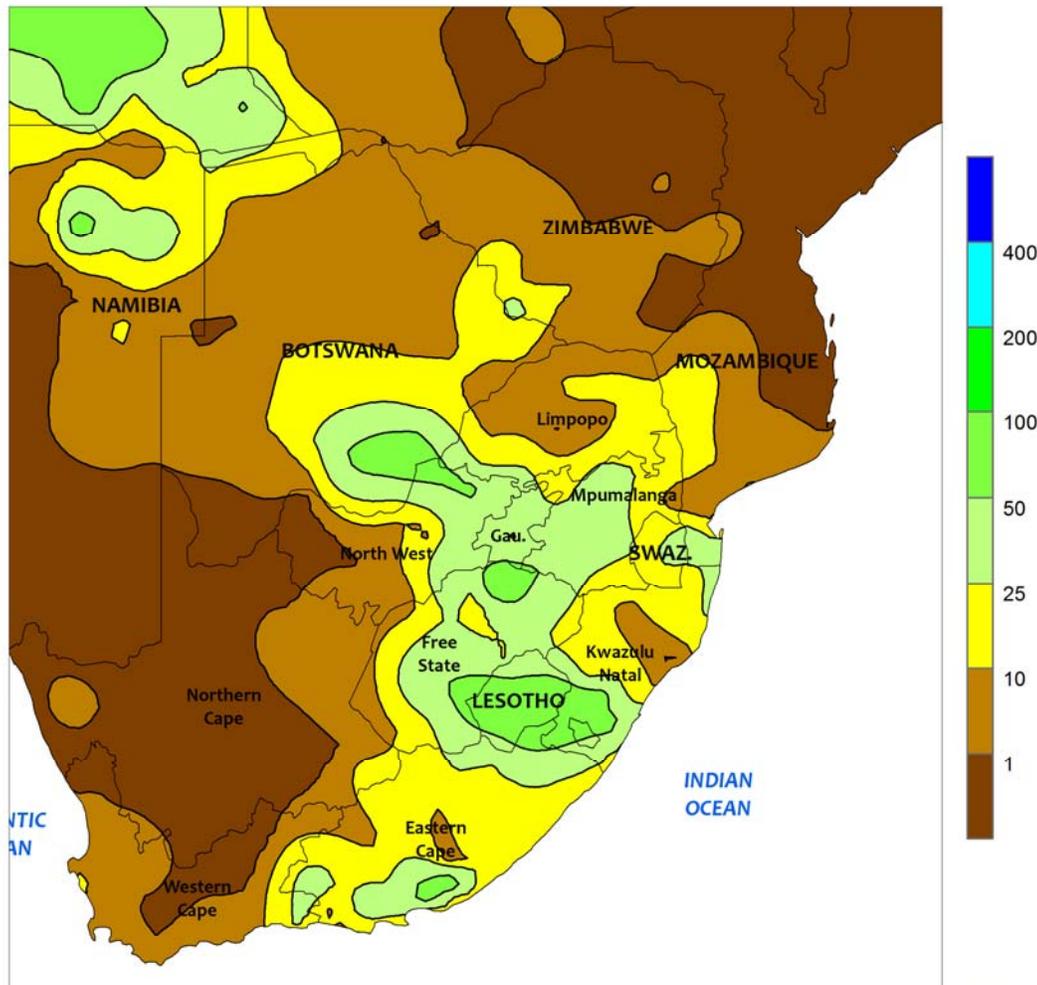


**AUSTRALIA**

In Western Australia, widespread showers (5-25 mm, locally more) slowed wheat, barley, and canola harvesting, and may have raised some concerns about crop quality in the south. In contrast, dry weather covered major agricultural areas in South Australia and northwestern Victoria, allowing winter crop harvesting to proceed without delay. Rain (5-25 mm or more) in eastern Victoria and southern New South Wales likely stalled fieldwork, including winter grain and oilseed harvesting. Similarly, widespread showers (5-25 mm, locally more) in northern New South Wales and southern Queensland disrupted fieldwork, but the rain had little impact on winter

crop harvesting, which was reportedly nearing completion. The rainfall in eastern Australia was overall beneficial for agriculture, providing a needed boost in topsoil moisture for summer crop germination, emergence, and establishment. The showers were accompanied by cooler weather as well. Hot weather at the beginning of the week stressed tender vegetation, with temperatures averaging 3 to 5°C above normal and maximum temperatures in the upper 30s to lower 40s degrees C. By mid-week, more seasonable temperatures overspread the area, helping ease the heat stress on vegetative summer crops.

SOUTH AFRICA  
 Total Precipitation (mm)  
 NOV 23 - 29, 2014



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

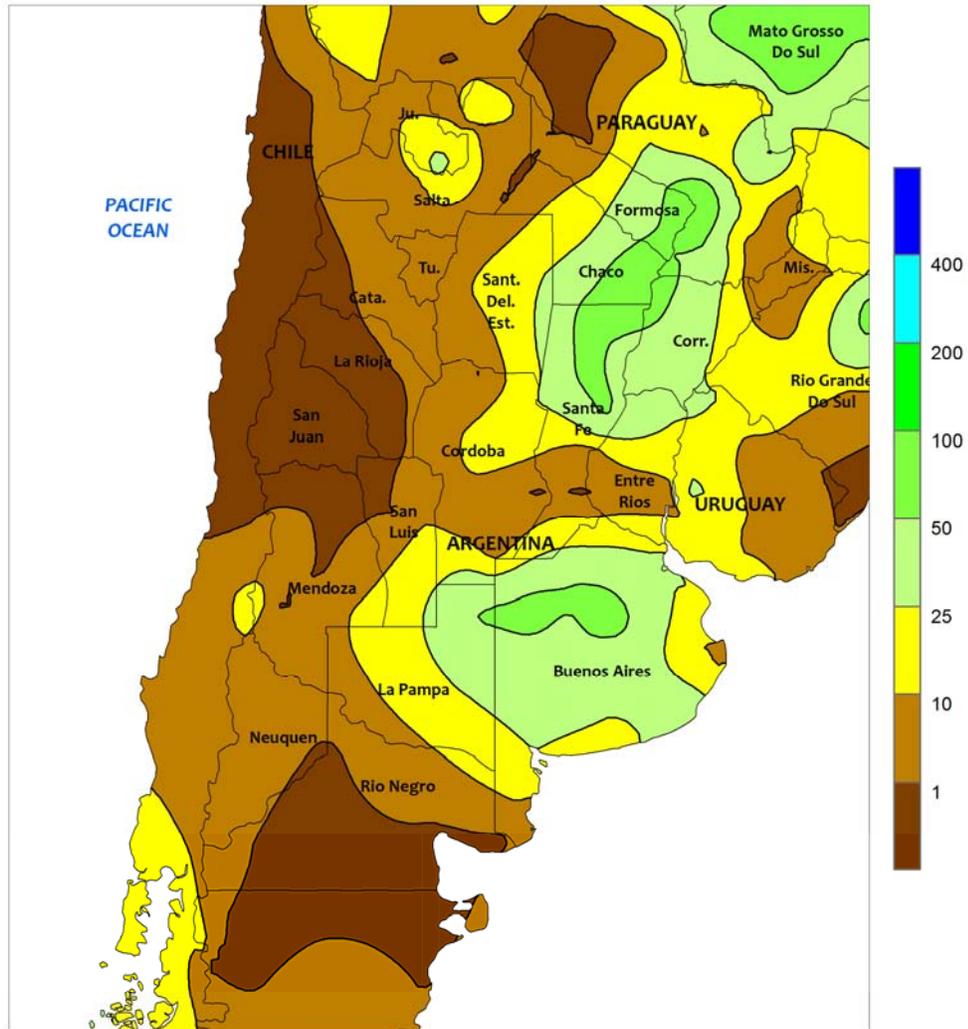


**SOUTH AFRICA**

Locally heavy showers further improved prospects for corn and other rain-fed summer crops. Rainfall totaling 10 to 50 mm provided timely moisture for emerging crops over central and eastern farming areas (Mpumalanga, Gauteng, and eastern Free State). Daytime highs generally ranged from the lower to upper 20s (degrees C) in these areas, fostering vegetative growth of summer crops in the absence of stressful heat. Somewhat drier conditions (5-25 mm) prevailed at the western edge of the region (outlying production areas in North West and Free State); temperatures reaching the lower 30s maintained high evaporative losses, but crops are

typically planted in December once seasonal rains have become more fully established. Elsewhere, scattered showers (locally greater than 25 mm) and seasonal warmth (daytime highs reaching the upper 20s and lower 30s) benefited sugarcane in rain-fed production areas of southern KwaZulu-Natal. Meanwhile, widespread rain (10-50 mm, most areas) increased moisture reserves for crops in Eastern Cape and sections of the Orange River Valley (bordering locations of Northern Cape and Free State). Light rain (less than 10 mm) lingered over Western Cape, possibly necessitating treatment for pests and diseases.

ARGENTINA  
Total Precipitation (mm)  
NOV 23 - 29, 2014



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

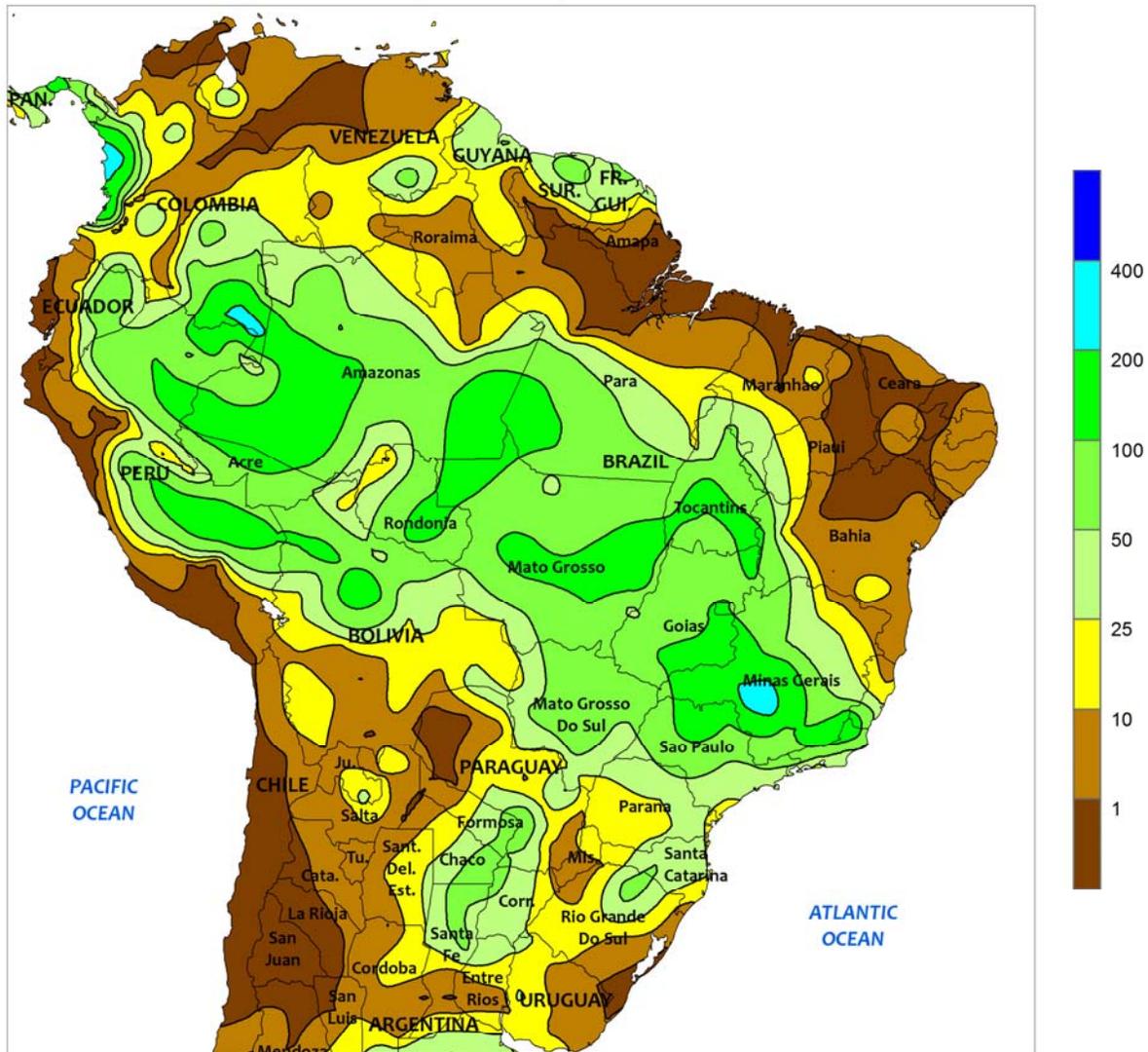


**ARGENTINA**

Widespread, locally heavy rain continued throughout the region, maintaining adequate to abundant levels of moisture for winter grains and newly-sown summer crops but sustaining local delays in fieldwork. The heaviest rainfall (locally approaching 100 mm) was concentrated over the northeastern cotton belt (northern Santa Fe and eastern sections of Chaco and Formosa), with lighter amounts (5-25 mm) in the more western growing areas (notably Santiago del Estero and Salta). In central Argentina, showers were widely scattered, resulting in variable amounts of rainfall; mostly dry weather favored corn and soybean planting in the lower Parana River Valley (northern Buenos Aires and

southern sections of Santa Fe and Entre Rios) but heavy rain developed at week's end, ending a favorable period for fieldwork. Weekly temperatures averaged near to slightly above normal, with daytime highs ranging from the middle 20s and lower 30s (degrees C) in Buenos Aires to the middle 30s farther north, though temperatures were generally lower on the rainy days. According to Argentina's Ministry of Agriculture, sunflowers were 95 percent planted as of November 27, compared with 97 percent last year. Corn was 48 percent planted, on par with last year's pace; soybeans were also 48 percent planted, lagging last year's pace by 6 percentage points.

BRAZIL  
Total Precipitation (mm)  
NOV 23 - 29, 2014



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



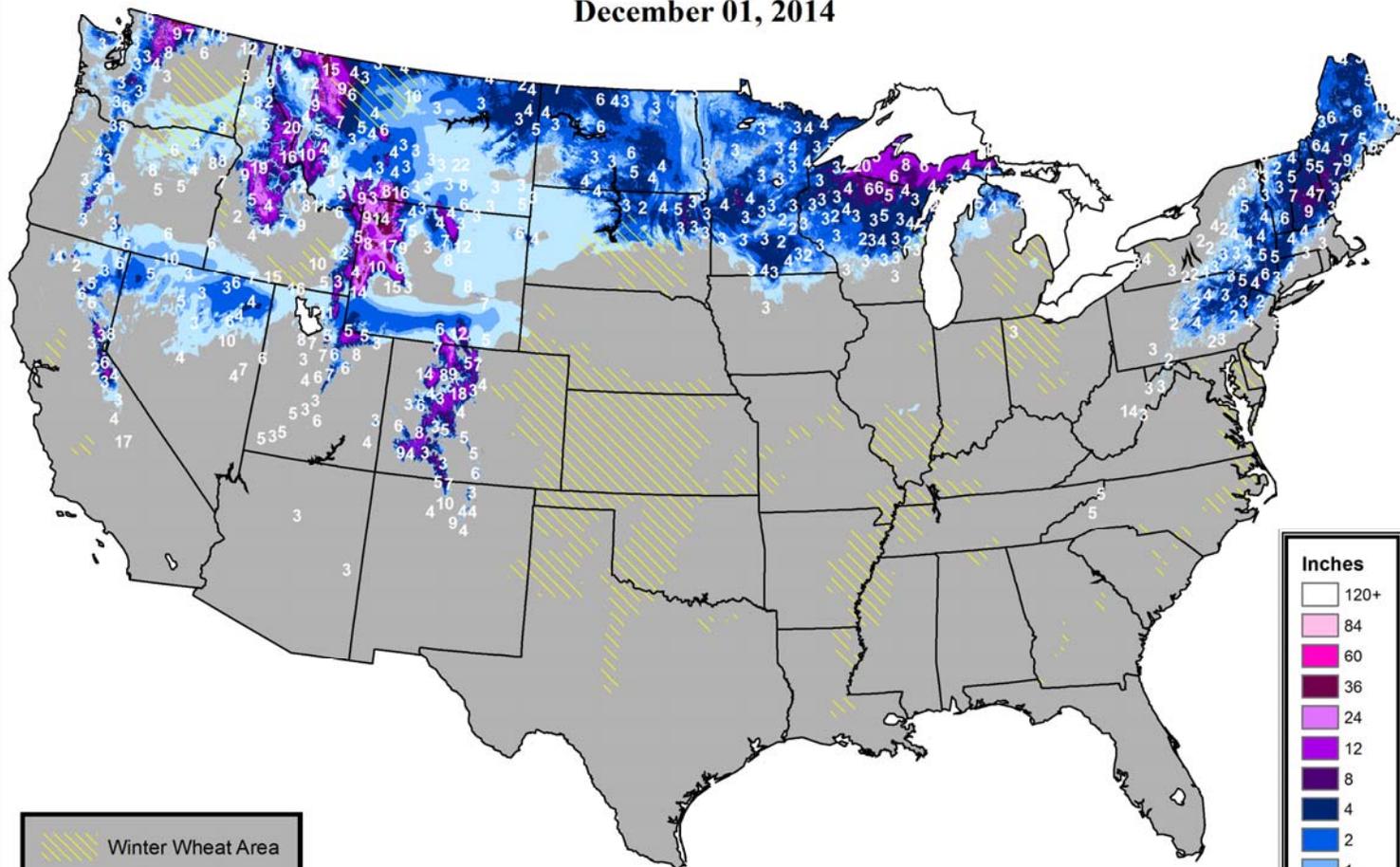
**BRAZIL**

Rain intensified over central Brazil, maintaining overall favorable prospects for soybeans and other rain-fed summer row crops. Rainfall totaled 50 to more than 100 mm from Mato Grosso and Mato Grosso do Sul eastward to western Bahia and Minas Gerais. The moisture was especially timely for sugarcane and coffee in key southeastern production areas (in and around Sao Paulo and Minas Gerais), following recent weeks of sporadic rainfall. Weekly temperatures averaged near to slightly above normal in the aforementioned areas, with daytime highs reaching the upper 30s (degrees C)

in traditionally warmer locations of Mato Grosso and Tocantins. Lighter rain (10-50 mm) fell in southern Brazil, sustaining adequate moisture for germination of corn and soybeans but causing some localized delays in fieldwork. According to reports from Brazil, wheat was 95 percent harvested in Rio Grande do Sul, slightly ahead of the average pace; corn and soybeans were 85 and 60 percent harvested, respectively. Meanwhile, warm, seasonably drier weather supported harvesting of sugarcane and other seasonal crops in the northeast.

# Snow Depth

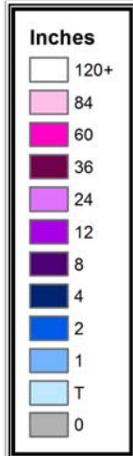
December 01, 2014



Winter Wheat Area

**USDA** Agricultural Weather Assessments  
World Agricultural Outlook Board

Snow analysis and data (plotted values, in inches) are provided by NOAA's National Operational Hydrologic Remote Sensing Center (NOHRSC).



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