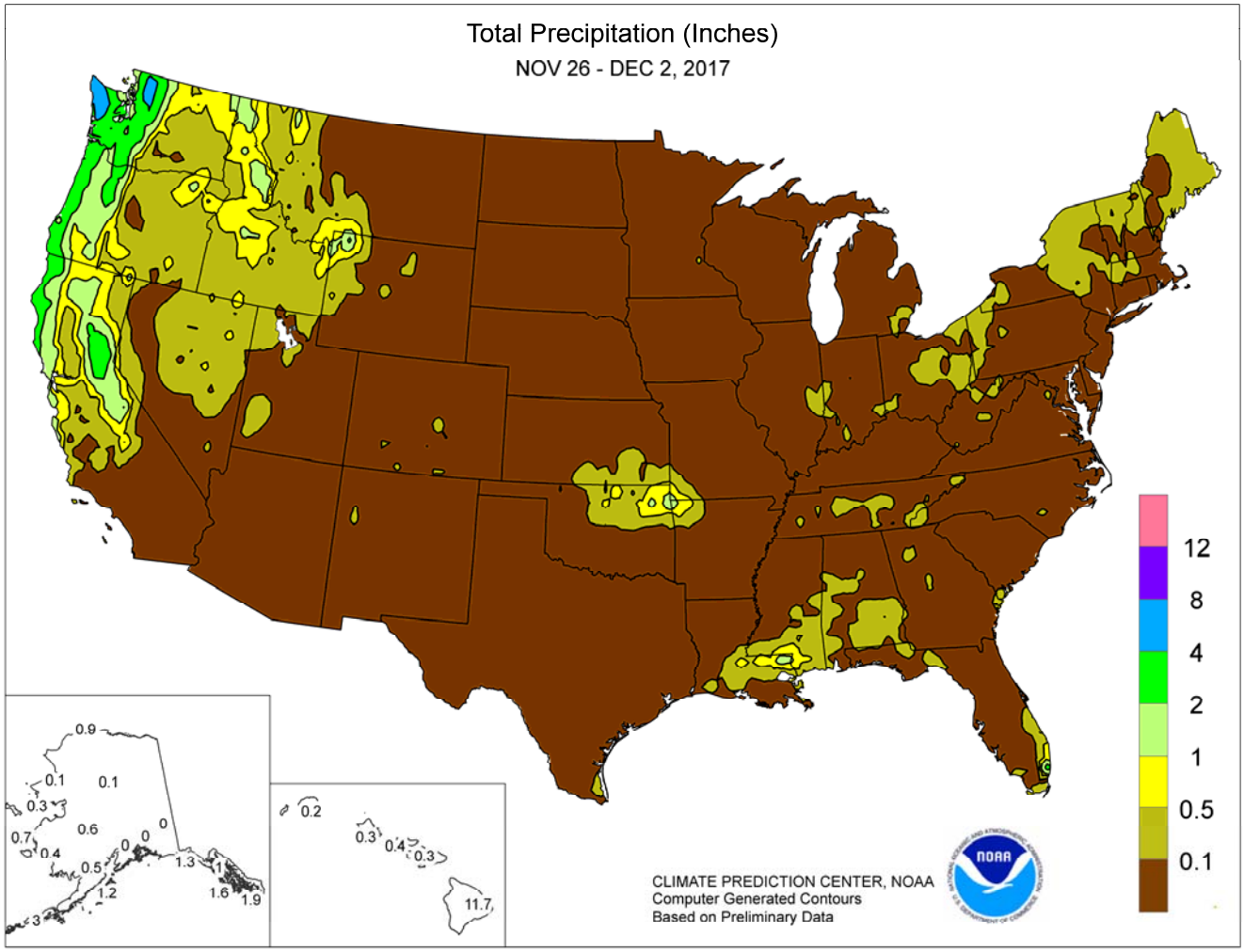
Volume 104, No. 49 http://www.usda.gov/oce/weather December 5, 2017

WEEKLY WEATHER AND CROP BULLETIN

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

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



HIGHLIGHTS

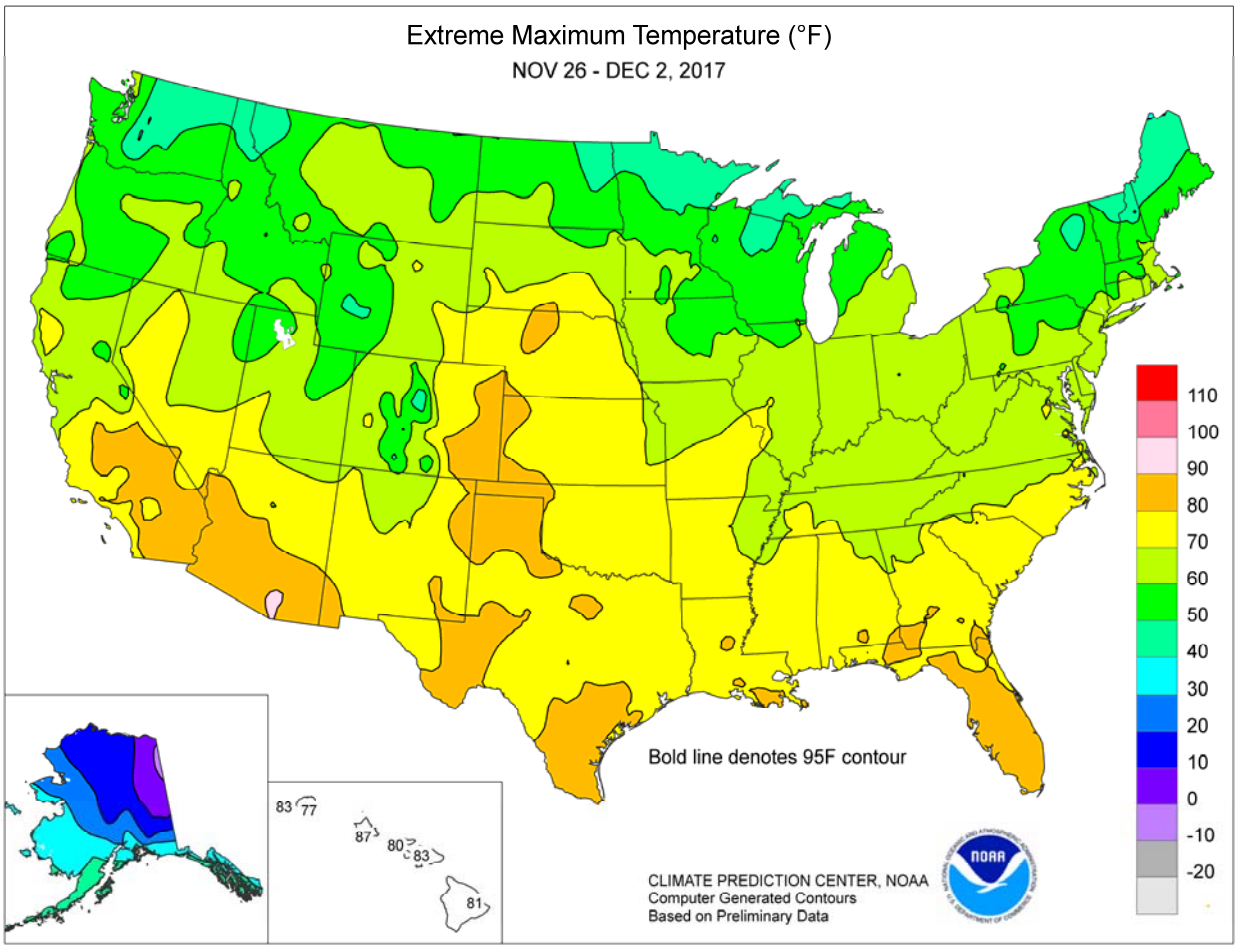
November 26 – December 2, 2017

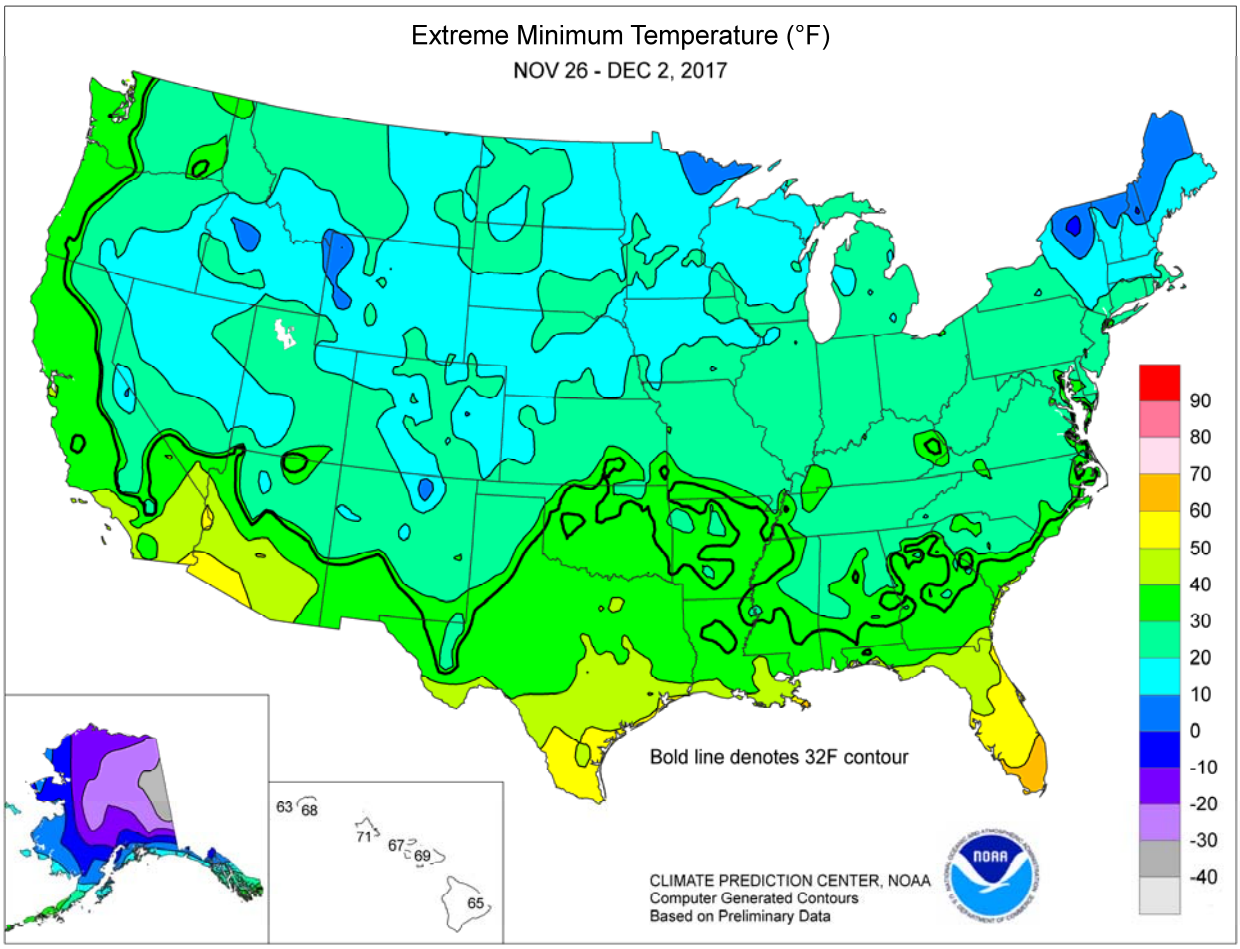
Highlights provided by USDA/WAOB

For the second week in a row, "open" weather across most of the country favored final harvest efforts and other late-season fieldwork. In fact, significant precipitation was again limited to the **Northwest**, although rain and high-elevation snow briefly spread as far south as **northern and central California**. Nearly all other areas, including the **Plains**, **Midwest**, **Southwest**, and **East**, received little or no precipitation. Across a vast area stretching from the **Southwest into the middle and lower Mississippi Valley**, as well as portions of the **Atlantic Coast States**,

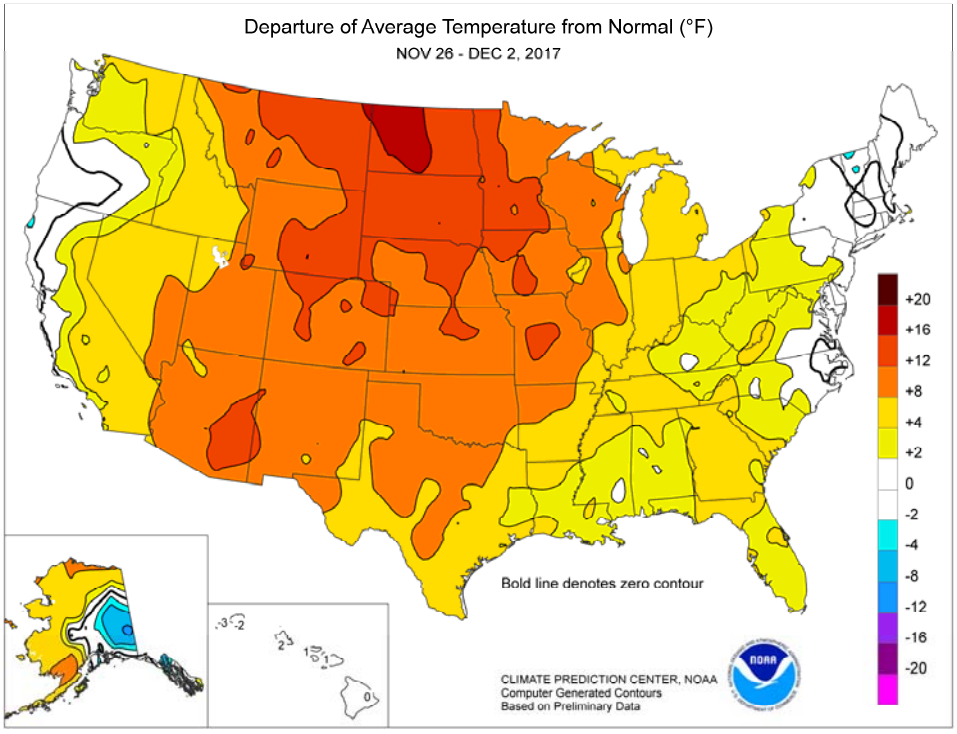
(Continued on page 3)

Contents


Extreme Maximum Temperature (°F)
NOV 26 - DEC 2, 2017
110
100
90
80
70
60
50
40
30
20
10
0
-10
-20
Bold line denotes 95F contour
83
77
87
80
83
81
CLIMATE PREDICTION CENTER, NOAA
Computer Generated Contours
Based on Preliminary Data


Extreme Minimum Temperature (°F)
NOV 26 - DEC 2, 2017
90
80
70
60
50
40
30
20
10
0
-10
-20
-30
-40
Bold line denotes 32F contour
63
68
71
67
69
65
CLIMATE PREDICTION CENTER, NOAA
Computer Generated Contours
Based on Preliminary Data

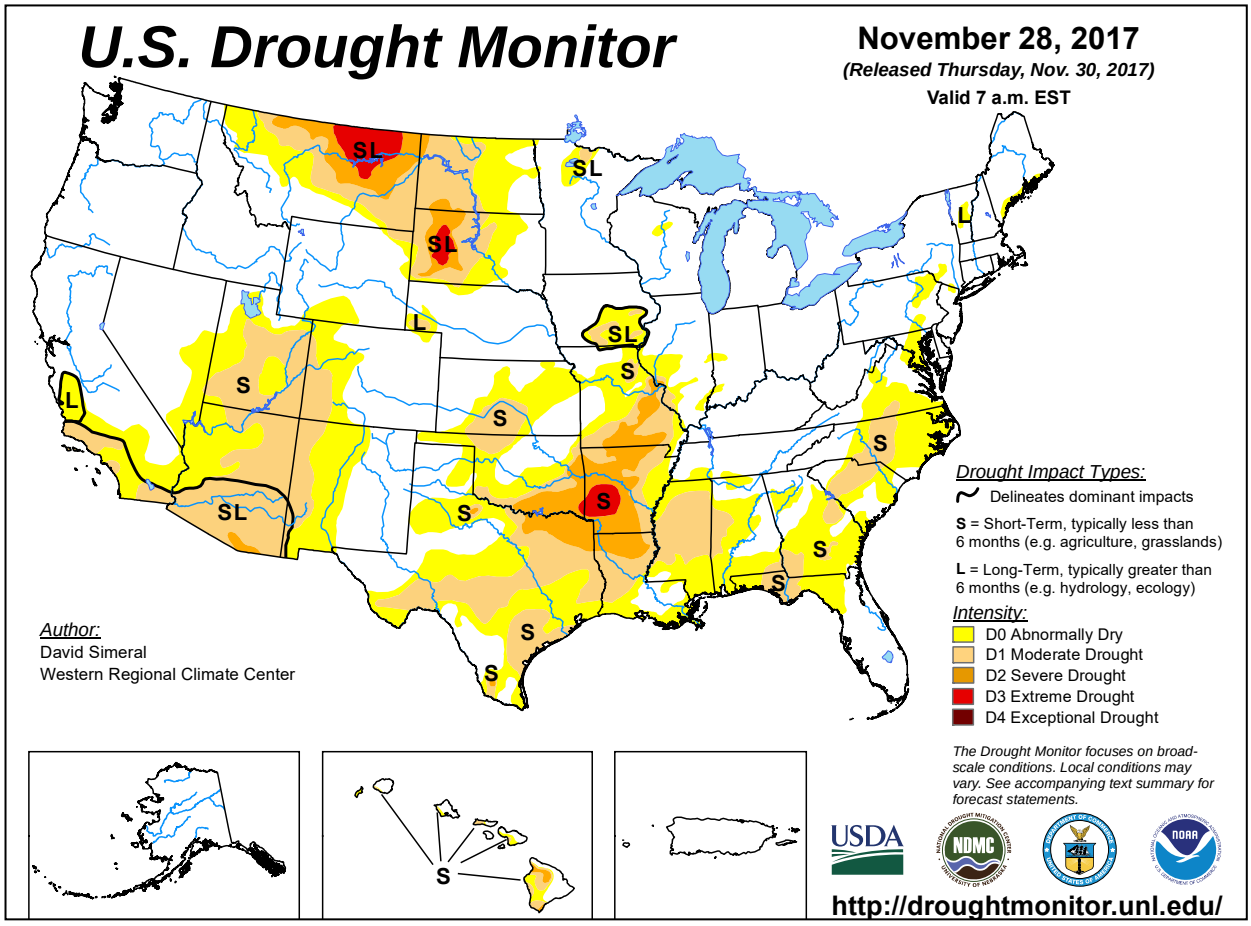
(Continued from front cover)
declining soil moisture reserves led to increased stress on some winter grains and cover crops. Some of the driest areas, including the **mid-South**, were also experiencing significant stress on pastures and reduced surface water supplies. In addition, warmth covered much of the country, with near-normal temperatures limited to the **Northeastern and Mid-Atlantic States** and areas along the **Pacific Coast**. Weekly temperatures averaged at least 10°F above normal across large sections of the **Plains**, **Southwest**, and **upper Midwest**. In the **South** and **East**, mild weather replaced previously cool conditions.

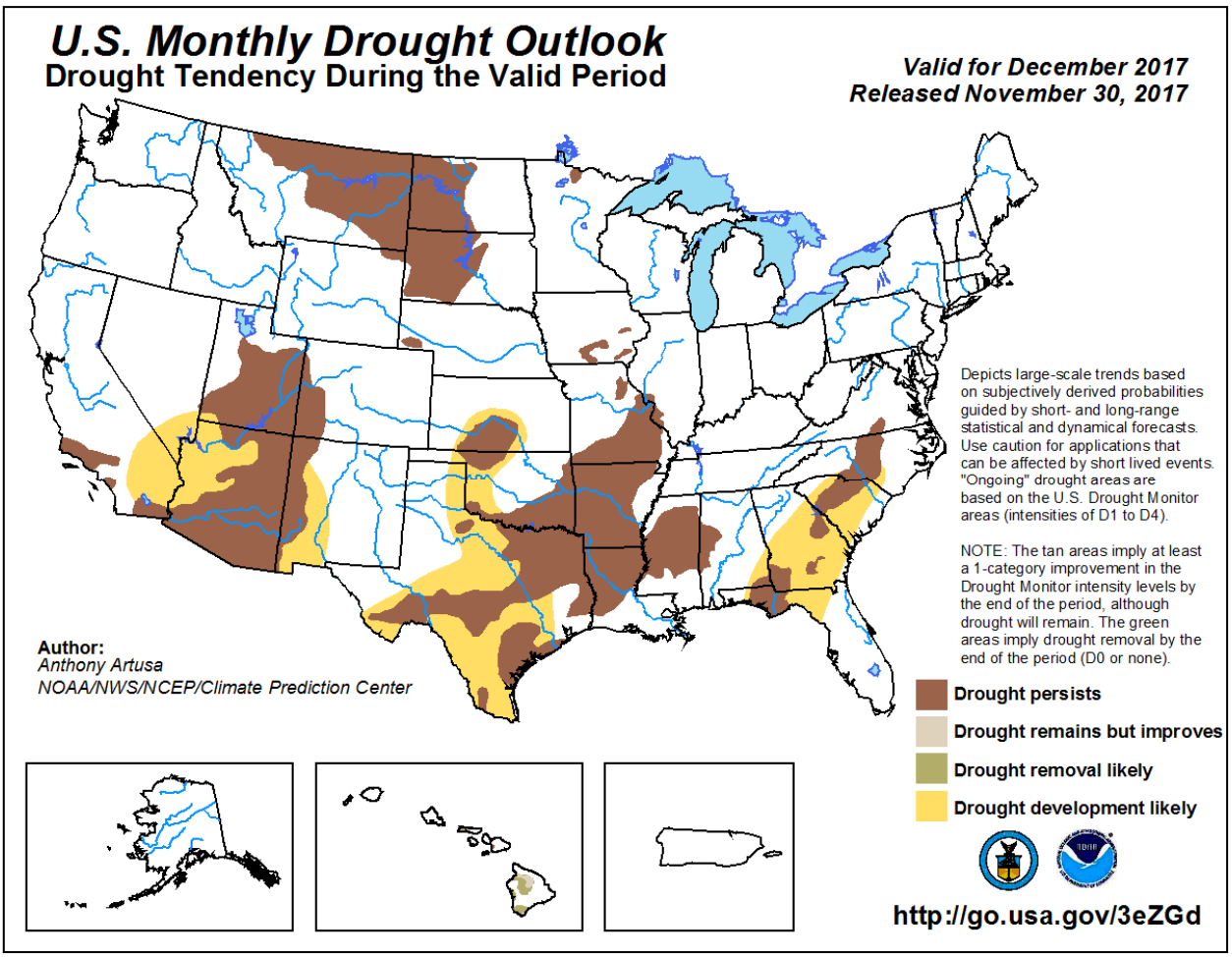


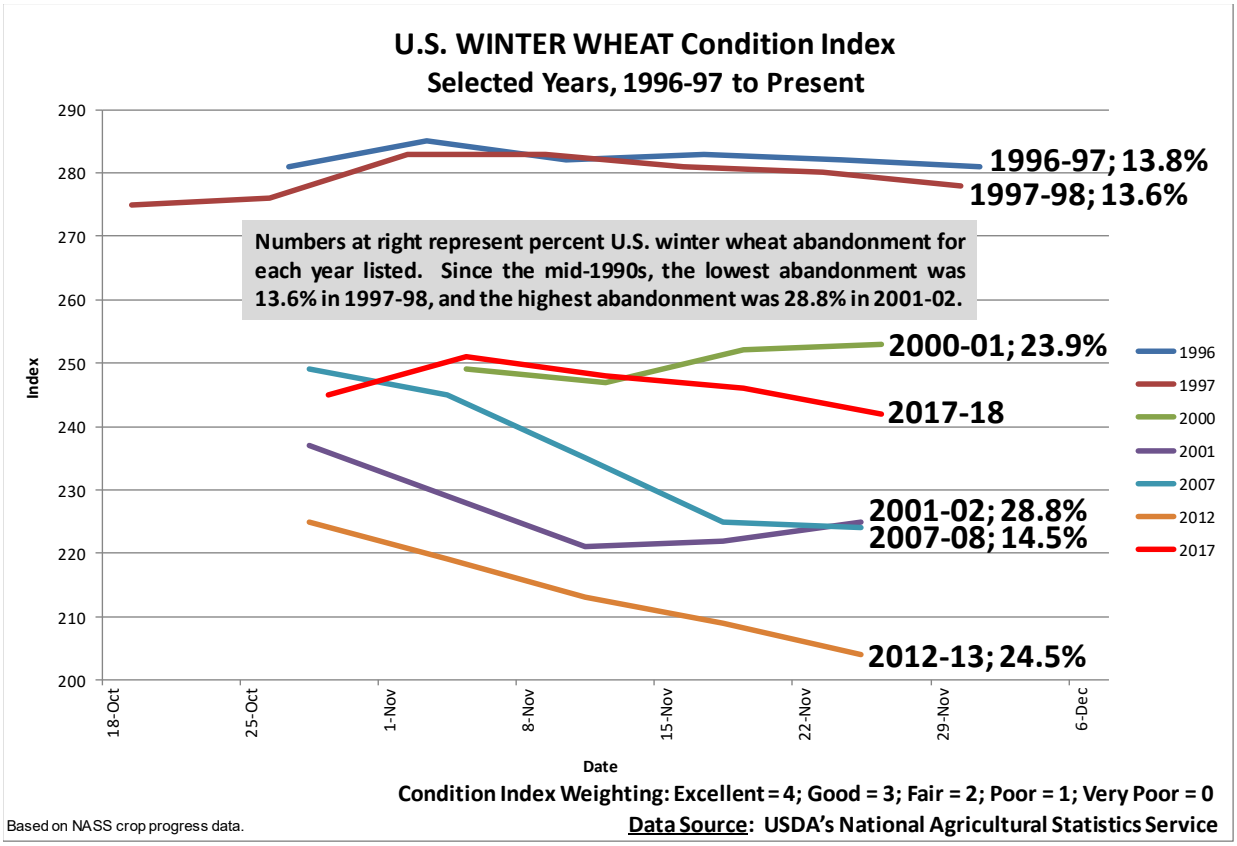
The driest autumn on record came to a close on November 30 across portions of the **southern U.S.** September-November precipitation totaled just 0.43 inch (7 percent of normal) in Flagstaff, AZ, and 2.01 inches (16 percent) in **Pine Bluff, AR**—setting autumn records in both locations. In addition, records for November dryness were set in **Southern** locations such as **New Orleans, LA** (0.06 inch; previously, 0.21 inch in 1949), and **Vichy-Rolla, MO** (0.27 inch; previously, 0.28 inch in 1949). Meanwhile, late-November precipitation was mostly confined to the **Northwest**, where daily-record totals in **Idaho** on the 27th reached 0.32 inches in **Jerome** and 0.24 inch in **Burley**. In the **Sierra Nevada**, where early-week precipitation included high-elevation snow, winds on November 26 were clocked to 126 mph on **Peavine Peak** in **Washoe County, NV**, and 116 mph at **Alpine Meadows** (summit) in **Placer County, CA**. In **Montana**, **Great Falls**, reported wind gusts to 40 mph or greater on 14 November days, twice the monthly normal and the most in November at that location since 1990. **Great Falls'** highest gust during the month was 59 mph on November 26.

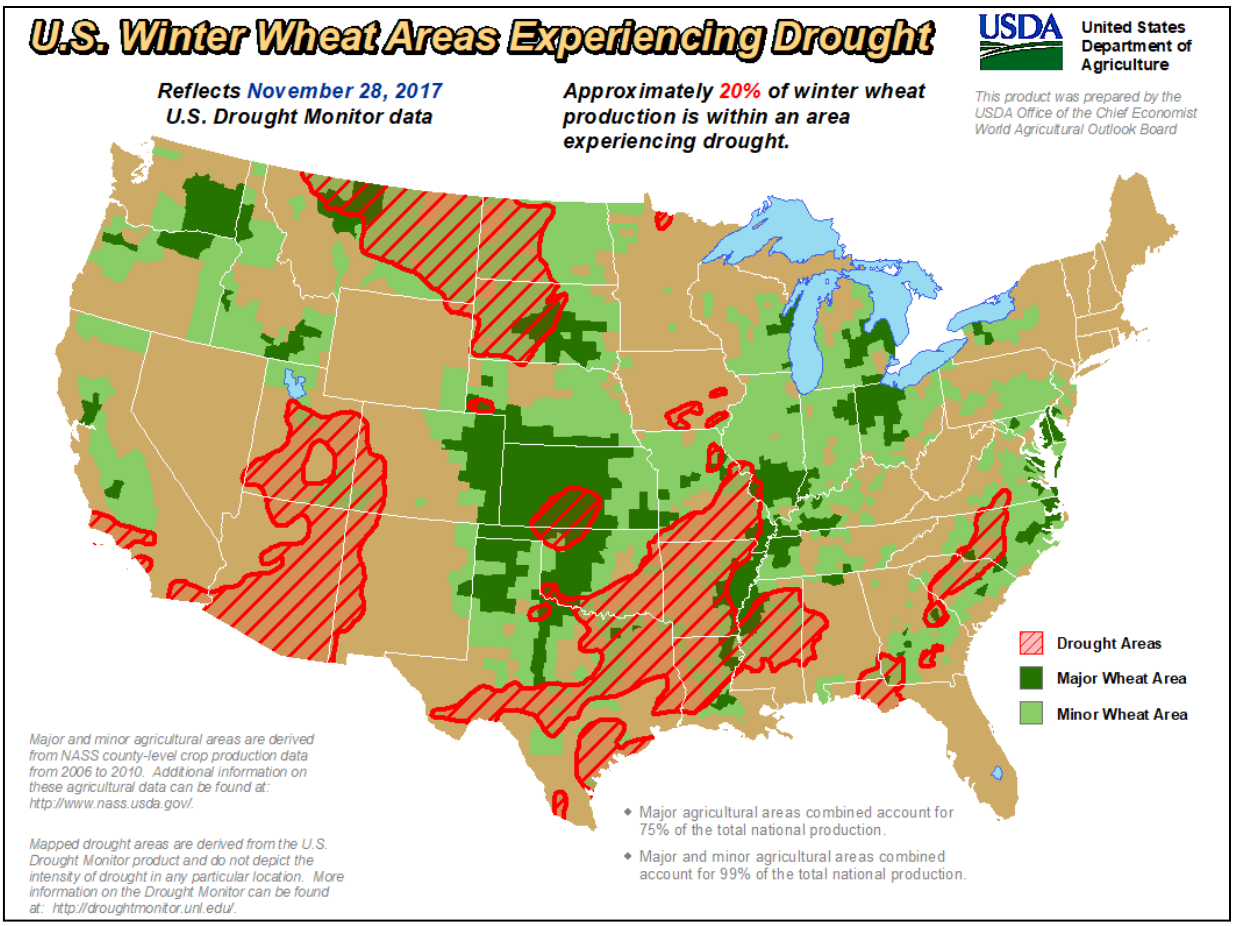
Late-November warmth continued to set temperature records early in the week. With a high of 90°F on November 26, **Yuma, AZ**, experienced its latest-ever reading of 90°F or greater. Previously, **Yuma** had never reached 90°F after November 25—a record that had been set in 1950. Similarly, **Valentine, NE**, posted a high of 84°F on November 27. Previously, **Valentine's** latest 80-degree reading had occurred on November 16, 1941, with a high of 82°F. On November 26-27, consecutive daily-record highs were set in locations such as **Tucson, AZ** (92°F both days); **Goodland, KS** (77 and 82°F); **Pueblo, CO** (77 and 82°F); **Salt Lake City, UT** (69 and 67°F); and **Helena, MT** (66 and 61°F). **Salt Lake City** also completed its warmest November on record, with the average temperature of 47.8°F (7.8°F above normal), eclipsing the 2016 standard of 47.0°F. Record-setting warmth spread into the **western Corn Belt** on November 27, when daily-record highs climbed to 74°F in **Kennebec, SD**, and 72°F in **Lincoln, NE**. On November 28, **Midwestern** daily-record highs included 68°F in **Lincoln, IL**, and 66°F in **Flint, MI**. By week's end, however, slightly cooler air arrived in the **central and eastern U.S.**, while record-setting warmth returned to parts of the **West**. On December 2, daily-record highs were set in **Western** locations such as **St. George, UT** (70°F), and **Grand Junction, CO** (60°F).

Mild weather prevailed across **northern and western Alaska**, where weekly temperatures averaged as much as 10°F above normal, but cold, stormy weather covered the southeastern part of the state. Daily-record highs were set at a few western locations, including **Cold Bay** (50°F on December 1). Prior to the warm day, **Cold Bay** netted consecutive daily-record precipitation totals (0.90 and 1.40 inches, respectively) on November 27-28. Daily-record snowfall totals were set in locations such as **Kodiak** (4.1 inches on November 26) and **McGrath** (4.2 inches on December 2). Although not a record for the date, **Yakutat** received 6.1 inches of snow of November 27. Farther south, extremely heavy rain soaked portions of the **Big Island of Hawaii** in late November. In a 72-hour period from November 27-30, **Big Island** totals included 43.98 inches at **Saddle Quarry**; 24.17 inches in **Glenwood**; and 17.01 inches in **Mountain View**. Elsewhere on the **Big Island**, **Hilo's** daily-record total of 5.14 inches on November 30 contributed to a weekly sum of 11.80 inches. A few other windward locations, including **Kauai's** famously wet **Mount Waialeale**, also received heavy rain. More than half (11.10 inches) of **Mount Waialeale's** weekly total of 21.71 inches fell during a 24-hour period on November 29-30.


U.S. Drought Monitor
November 28, 2017
(Released Thursday, Nov. 30, 2017)
Valid 7 a.m. EST
Author:
David Simeral
Western Regional Climate Center
Drought Impact Types:
Delineates dominant impacts
S = Short-Term, typically less than 6 months (e.g. agriculture, grasslands)
L = Long-Term, typically greater than 6 months (e.g. hydrology, ecology)
Intensity:
D0 Abnormally Dry
D1 Moderate Drought
D2 Severe Drought
D3 Extreme Drought
D4 Exceptional Drought
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.
USDA
NDMC
NOAA
http://droughtmonitor.unl.edu/


U.S. Monthly Drought Outlook
Drought Tendency During the Valid Period
Valid for December 2017
Released November 30, 2017
Author:
Anthony Artusa
NOAA/NWS/NCEP/Climate Prediction Center
Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to D4).
NOTE: The tan areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period, although drought will remain. The green areas imply drought removal by the end of the period (D0 or none).
Drought persists
Drought remains but improves
Drought removal likely
Drought development likely
http://go.usa.gov/3eZGd





In the U.S., autumn winter wheat conditions are not always a good predictor of final crop abandonment numbers (upper image). For example, poor autumn crop conditions in 2007 were followed by a favorable spring growing season and an abandonment of just 14.5%--the third-lowest rate since the mid-1990s. In the current (2017-18) crop cycle, winter wheat conditions are "average," while 20% of the crop production area is considered to be in drought (lower image), according to the latest U.S. Drought Monitor.

National Weather Data for Selected Cities

Weather Data for the Week Ending December 2, 2017

Data Provided by Climate Prediction Center

STATES AND STATIONS		TEMPERATURE ˚F						PRECIPITATION							RELATIVE HUMIDITY PERCENT		NUMBER OF DAYS			
																	TEMP. ˚F		PRECIP	
		AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE DEC 1	PCT. NORMAL SINCE DEC 1	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL	BIRMINGHAM	67	42	73	33	55	5	0.38	-0.71	0.38	0.00	0	65.03	131	95	47	0	0	1	0
	HUNTSVILLE	68	40	72	29	54	6	0.04	-1.28	0.04	0.00	0	49.10	94	89	52	0	1	1	0
	MOBILE	73	48	79	38	61	5	0.16	-1.14	0.16	0.00	0	79.41	128	87	54	0	0	1	0
	MONTGOMERY	69	41	73	30	55	2	0.49	-0.75	0.49	0.00	0	67.65	135	92	50	0	2	1	0
AK	ANCHORAGE	25	14	30	4	19	0	0.11	-0.11	0.09	0.09	150	18.29	121	79	69	0	7	2	0
	BARROW	10	-2	14	-10	4	10	***	***	***	***	***	***	***	91	81	0	7	2	1
	FAIRBANKS	2	-15	15	-27	-7	-5	0.00	-0.14	0.00	0.00	0	12.72	132	85	81	0	7	0	0
	JUNEAU	34	25	39	9	30	-1	0.99	-0.17	0.44	0.05	15	61.58	116	100	96	0	5	4	0
	KODIAK	40	28	45	12	34	2	1.18	-0.34	0.47	0.00	0	52.92	78	97	88	0	5	5	0
	NOME	26	13	32	0	19	6	0.27	0.01	0.22	0.27	386	16.70	107	82	71	0	7	2	0
AZ	FLAGSTAFF	59	28	69	21	43	10	0.00	-0.41	0.00	0.00	0	18.02	85	70	26	0	6	0	0
	PHOENIX	80	58	89	53	69	11	0.00	-0.17	0.00	0.00	0	4.71	63	43	27	0	0	0	0
	PRESCOTT	68	38	81	29	53	12	0.00	-0.28	0.00	0.00	0	12.37	69	63	21	0	1	0	0
	TUCSON	82	55	92	50	69	14	0.00	-0.15	0.00	0.00	0	10.28	92	33	22	2	0	0	0
AR	FORT SMITH	70	41	76	32	56	10	0.02	-1.05	0.02	0.00	0	45.68	112	85	33	0	1	1	0
	LITTLE ROCK	68	39	72	34	54	6	0.00	-1.34	0.00	0.00	0	39.56	85	87	33	0	0	0	0
CA	BAKERSFIELD	67	44	84	39	56	5	0.00	-0.14	0.00	0.00	0	5.34	93	73	60	0	0	0	0
	FRESNO	65	42	81	39	54	5	0.06	-0.19	0.06	0.00	0	13.17	132	91	71	0	0	1	0
	LOS ANGELES	71	54	77	50	62	2	0.01	-0.29	0.01	0.00	0	12.26	107	88	58	0	0	1	0
	REDDING	60	41	65	35	51	3	0.61	-0.33	0.54	0.07	26	33.98	117	82	66	0	0	2	1
	SACRAMENTO	61	41	63	36	51	2	0.19	-0.33	0.10	0.00	0	25.71	164	100	61	0	0	2	0
	SAN DIEGO	68	55	71	50	61	1	0.02	-0.22	0.02	0.00	0	7.85	82	86	69	0	0	1	0
	SAN FRANCISCO	62	49	68	46	56	4	0.41	-0.18	0.31	0.00	0	25.19	145	86	73	0	0	2	0
	STOCKTON	63	40	65	34	52	3	0.13	-0.28	0.11	0.00	0	16.55	136	97	82	0	0	2	0
CO	ALAMOSA	55	14	64	10	35	12	0.00	-0.08	0.00	0.00	0	10.55	152	83	40	0	7	0	0
	CO SPRINGS	63	30	76	24	47	15	0.00	-0.06	0.00	0.00	0	18.43	108	63	19	0	5	0	0
	DENVER INTL	64	30	81	24	47	14	0.00	-0.09	0.00	0.00	0	11.49	86	55	20	0	5	0	0
	GRAND JUNCTION	57	28	64	22	43	10	0.00	-0.11	0.00	0.00	0	5.04	59	66	44	0	7	0	0
	PUEBLO	65	24	82	19	44	10	0.00	-0.08	0.00	0.00	0	15.98	133	75	46	0	6	0	0
CT	BRIDGEPORT	52	33	64	29	42	1	0.04	-0.76	0.04	0.00	0	39.59	97	74	44	0	4	1	0
	HARTFORD	49	28	62	21	38	1	0.05	-0.83	0.05	0.00	0	43.21	101	80	44	0	6	1	0
DC	WASHINGTON	60	40	70	36	50	5	0.01	-0.68	0.01	0.00	0	35.13	96	78	40	0	0	1	0
DE	WILMINGTON	57	33	67	28	45	3	0.02	-0.75	0.02	0.00	0	38.66	98	91	42	0	4	1	0
FL	DAYTONA BEACH	77	59	79	52	68	4	0.00	-0.62	0.00	0.00	0	48.78	104	100	58	0	0	0	0
	JACKSONVILLE	78	53	82	47	65	6	0.00	-0.55	0.00	0.00	0	67.69	136	97	48	0	0	0	0
	KEY WEST	80	73	82	71	77	3	0.07	-0.41	0.07	0.00	0	36.01	98	89	69	0	0	1	0
	MIAMI	83	69	84	65	76	3	0.40	-0.20	0.40	0.00	0	82.46	146	85	60	0	0	1	0
	ORLANDO	81	59	83	51	70	4	0.00	-0.55	0.00	0.00	0	51.32	111	99	54	0	0	0	0
	PENSACOLA	73	53	76	45	63	5	0.00	-0.97	0.00	0.00	0	88.24	146	84	55	0	0	0	0
	TALLAHASSEE	77	49	80	38	63	5	0.17	-0.71	0.17	0.17	71	53.41	90	90	50	0	0	1	0
	TAMPA	82	63	85	57	72	5	0.00	-0.48	0.00	0.00	0	46.76	110	86	45	0	0	0	0
	WEST PALM BEACH	80	71	82	65	75	4	0.00	-1.13	0.00	0.00	0	59.88	102	80	60	0	0	0	0
GA	ATHENS	67	41	72	29	54	5	0.02	-0.81	0.02	0.00	0	53.11	120	97	52	0	2	1	0
	ATLANTA	66	46	70	36	56	6	0.00	-0.96	0.00	0.00	0	48.10	103	85	55	0	0	0	0
	AUGUSTA	71	39	76	28	55	4	0.00	-0.55	0.00	0.00	0	40.84	98	96	44	0	3	0	0
	COLUMBUS	72	47	75	34	60	7	0.06	-0.96	0.05	0.01	3	48.45	109	90	44	0	0	2	0
	MACON	73	41	78	29	57	5	0.03	-0.78	0.03	0.00	0	45.46	110	98	44	0	2	1	0
	SAVANNAH	73	48	79	38	60	4	0.22	-0.28	0.22	0.00	0	53.08	113	92	55	0	0	1	0
HI	HILO	78	68	81	65	73	0	11.69	8.21	4.24	3.71	391	98.26	84	96	88	0	0	7	5
	HONOLULU	83	74	87	71	79	3	0.32	-0.22	0.31	0.31	194	19.54	125	72	62	0	0	2	0
	KAHULUI	80	71	83	69	76	1	0.29	-0.27	0.10	0.14	88	18.36	116	91	81	0	0	5	0
	LIHUE	76	69	77	68	73	-2	0.21	-0.86	0.14	0.05	16	22.44	64	92	84	0	0	3	0
ID	BOISE	48	30	62	26	39	4	0.00	-0.33	0.00	0.00	0	14.21	130	82	62	0	6	0	0
	LEWISTON	47	33	55	29	40	3	0.09	-0.17	0.07	0.00	0	13.88	118	81	67	0	5	2	0
	POCATELLO	50	26	63	18	38	8	0.22	-0.03	0.12	0.12	171	16.45	142	87	70	0	6	3	0
IL	CHICAGO/O'HARE	54	34	61	27	44	10	0.00	-0.67	0.00	0.00	0	42.51	125	67	43	0	3	0	0
	MOLINE	57	26	65	22	41	7	0.00	-0.58	0.00	0.00	0	36.00	100	75	40	0	6	0	0
	PEORIA	57	32	65	26	45	10	0.00	-0.70	0.00	0.00	0	33.15	98	71	39	0	3	0	0
	ROCKFORD	53	28	58	20	40	8	0.00	-0.59	0.00	0.00	0	44.18	127	75	46	0	6	0	0
	SPRINGFIELD	60	34	71	25	47	10	0.13	-0.53	0.11	0.00	0	31.34	94	81	38	0	3	2	0
IN	EVANSVILLE	60	34	65	28	47	5	0.02	-0.99	0.02	0.00	0	42.38	103	87	44	0	4	1	0
	FORT WAYNE	54	31	64	25	43	7	0.08	-0.61	0.08	0.00	0	48.69	143	84	46	0	5	1	0
	INDIANAPOLIS	57	34	65	28	46	8	0.09	-0.74	0.09	0.00	0	47.33	124	76	36	0	2	1	0
	SOUTH BEND	52	28	61	21	40	5	0.02	-0.78	0.02	0.00	0	41.44	113	85	50	0	6	1	0
IA	BURLINGTON	56	30	62	25	43	8	0.00	-0.60	0.00	0.00	0	31.66	88	81	40	0	5	0	0
	CEDAR RAPIDS	55	25	61	19	40	9	0.00	-0.47	0.00	0.00	0	25.47	79	84	34	0	7	0	0
	DES MOINES	57	33	61	28	45	13	0.00	-0.40	0.00	0.00	0	29.84	89	71	41	0	4	0	0
	DUBUQUE	52	26	57	19	39	9	0.00	-0.52	0.00	0.00	0	35.30	104	77	48	0	7	0	0
	SIOUX CITY	57	24	67	15	40	11	0.00	-0.23	0.00	0.00	0	30.28	119	82	47	0	7	0	0
	WATERLOO	54	21	58	17	37	8	0.00	-0.39	0.00	0.00	0	29.47	92	83	46	0	7	0	0
KS	CONCORDIA	61	33	73	23	47	11	0.00	-0.26	0.00	0.00	0	36.33	131	66	38	0	4	0	0
	DODGE CITY	64	31	79	24	48	10	0.00	-0.17	0.00	0.00	0	26.87	124	63	26	0	3	0	0
	GOODLAND	63	27	82	19	45	12	0.00	-0.12	0.00	0.00	0	26.28	136	69	27	0	6	0	0
	TOPEKA	63	35	70	24	49	11	0.00	-0.45	0.00	0.00	0	38.29	112	78	38	0	3	0	0

Based on 1971-2000 normals

***** Not Available**

Weather Data for the Week Ending December 2, 2017

STATES AND STATIONS		TEMPERATURE ˚F						PRECIPITATION							RELATIVE HUMIDITY PERCENT		NUMBER OF DAYS			
																	TEMP. ˚F		PRECIP	
		AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE DEC 1	PCT. NORMAL SINCE DEC 1	TOTAL, IN., SINCE JAN01	PCT. NORMAL SINCE JAN01	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
	WICHITA	62	38	74	32	50	11	0.40	0.04	0.40	0.00	0	33.81	116	81	47	0	1	1	0
KY	JACKSON	60	39	67	32	50	6	0.03	-1.02	0.03	0.00	0	48.25	106	76	36	0	1	1	0
	LEXINGTON	59	33	64	26	46	4	0.06	-0.83	0.06	0.00	0	47.38	112	73	46	0	4	1	0
	LOUISVILLE	61	38	66	33	49	5	0.03	-0.90	0.03	0.00	0	41.80	102	76	37	0	0	1	0
	PADUCAH	64	34	69	27	49	6	0.05	-1.11	0.05	0.00	0	43.15	95	77	37	0	3	1	0
LA	BATON ROUGE	72	46	78	37	59	3	0.78	-0.38	0.78	0.00	0	61.79	106	95	47	0	0	1	1
	LAKE CHARLES	74	49	76	43	62	5	0.20	-0.89	0.16	0.00	0	70.48	133	97	48	0	0	2	0
	NEW ORLEANS	72	52	78	41	62	3	0.01	-1.29	0.01	0.00	0	67.27	113	93	63	0	0	1	0
	SHREVEPORT	72	42	77	36	57	5	0.00	-1.07	0.00	0.00	0	32.68	69	94	41	0	0	0	0
ME	CARIBOU	35	18	46	8	27	2	0.22	-0.50	0.14	0.03	15	38.46	112	85	65	0	7	4	0
	PORTLAND	46	24	59	17	35	1	0.08	-0.96	0.08	0.08	28	40.26	96	82	48	0	7	1	0
MD	BALTIMORE	57	32	67	27	45	3	0.02	-0.72	0.02	0.00	0	37.33	96	86	41	0	3	1	0
MA	BOSTON	49	32	61	22	41	0	0.09	-0.79	0.09	0.09	36	41.05	105	81	44	0	3	1	0
	WORCESTER	45	28	56	19	36	1	0.08	-0.83	0.04	0.04	16	42.44	93	81	44	0	6	2	0
MI	ALPENA	46	27	58	23	36	6	0.10	-0.33	0.08	0.00	0	39.49	148	87	55	0	6	2	0
	GRAND RAPIDS	50	30	63	21	40	6	0.04	-0.76	0.04	0.00	0	37.52	108	86	52	0	5	1	0
	HOUGHTON LAKE	44	28	53	22	36	5	0.07	-0.38	0.04	0.00	0	36.38	136	80	59	0	6	2	0
	LANSING	50	29	63	22	40	7	0.09	-0.53	0.09	0.00	0	38.70	131	82	53	0	6	1	0
	MUSKEGON	51	31	55	21	41	7	0.08	-0.64	0.07	0.00	0	33.78	111	77	53	0	5	2	0
	TRAVERSE CITY	47	30	56	24	39	6	0.00	-0.59	0.00	0.00	0	37.57	121	80	48	0	6	0	0
MN	DULUTH	42	22	47	12	32	10	0.00	-0.39	0.00	0.00	0	36.08	120	86	62	0	7	0	0
	INT'L FALLS	38	18	42	9	28	10	0.02	-0.22	0.01	0.00	0	22.33	96	83	61	0	7	2	0
	MINNEAPOLIS	51	29	60	24	40	13	0.00	-0.33	0.00	0.00	0	31.56	111	74	46	0	6	0	0
	ROCHESTER	51	25	58	18	38	13	0.00	-0.37	0.00	0.00	0	35.17	115	84	50	0	7	0	0
	ST. CLOUD	47	22	58	18	35	12	0.00	-0.23	0.00	0.00	0	30.35	115	90	44	0	7	0	0
MS	JACKSON	73	44	78	33	59	7	0.02	-1.22	0.02	0.00	0	58.05	114	87	34	0	0	1	0
	MERIDIAN	69	41	74	30	55	2	0.04	-1.20	0.04	0.00	0	57.81	108	95	54	0	2	1	0
	TUPELO	68	37	74	29	52	4	0.17	-1.17	0.17	0.00	0	41.39	83	84	50	0	2	1	0
MO	COLUMBIA	62	40	69	26	51	13	0.00	-0.77	0.00	0.00	0	37.70	99	62	31	0	1	0	0
	KANSAS CITY	61	38	69	26	49	12	0.00	-0.50	0.00	0.00	0	45.83	126	64	33	0	1	0	0
	SAINT LOUIS	63	40	74	31	52	12	0.08	-0.78	0.08	0.00	0	35.85	99	65	39	0	1	1	0
	SPRINGFIELD	66	40	73	30	53	12	0.00	-1.05	0.00	0.00	0	46.01	109	69	39	0	2	0	0
MT	BILLINGS	51	31	63	27	41	11	0.04	-0.10	0.04	0.00	0	16.13	114	62	30	0	5	1	0
	BUTTE	43	21	54	14	32	10	0.00	-0.11	0.00	0.00	0	11.44	93	80	36	0	7	0	0
	CUT BANK	45	28	59	24	37	12	0.00	-0.08	0.00	0.00	0	8.55	70	71	37	0	7	0	0
	GLASGOW	49	26	53	20	38	16	0.00	-0.06	0.00	0.00	0	5.90	54	69	49	0	7	0	0
	GREAT FALLS	51	30	67	26	40	12	0.00	-0.11	0.00	0.00	0	13.63	96	57	26	0	6	0	0
	HAVRE	52	27	65	24	40	16	0.00	-0.08	0.00	0.00	0	6.87	63	62	47	0	7	0	0
	MISSOULA	43	26	60	20	35	7	0.04	-0.18	0.04	0.04	67	13.68	107	80	68	0	7	1	0
NE	GRAND ISLAND	60	29	76	21	44	13	0.00	-0.26	0.00	0.00	0	30.13	119	73	36	0	5	0	0
	LINCOLN	61	27	72	16	44	11	0.00	-0.30	0.00	0.00	0	36.65	133	71	36	0	6	0	0
	NORFOLK	58	26	72	15	42	12	0.00	-0.26	0.00	0.00	0	27.48	105	75	39	0	7	0	0
	NORTH PLATTE	62	21	77	18	42	12	0.00	-0.11	0.00	0.00	0	27.49	143	82	24	0	7	0	0
	OMAHA	58	29	67	22	44	12	0.00	-0.35	0.00	0.00	0	26.20	89	72	42	0	5	0	0
	SCOTTSBLUFF	63	23	76	16	43	13	0.00	-0.16	0.00	0.00	0	14.88	94	70	33	0	6	0	0
	VALENTINE	62	26	84	19	44	16	0.00	-0.12	0.00	0.00	0	19.50	101	72	28	0	6	0	0
NV	ELY	54	25	66	17	40	10	0.28	0.19	0.28	0.00	0	9.51	100	79	49	0	6	1	0
	LAS VEGAS	69	51	77	46	60	9	0.00	-0.06	0.00	0.00	0	2.38	58	39	26	0	0	0	0
	RENO	57	32	72	28	45	8	0.21	0.02	0.16	0.00	0	13.58	204	73	57	0	5	2	0
	WINNEMUCCA	56	25	74	16	41	8	0.37	0.20	0.29	0.00	0	8.11	107	76	56	0	6	2	0
NH	CONCORD	45	22	61	15	34	1	0.06	-0.70	0.03	0.02	10	41.19	118	87	48	0	7	3	0
NJ	NEWARK	54	34	66	32	44	2	0.02	-0.88	0.02	0.00	0	45.84	107	73	49	0	3	1	0
NM	ALBUQUERQUE	61	39	68	33	50	10	0.00	-0.09	0.00	0.00	0	7.67	85	51	27	0	0	0	0
NY	ALBANY	46	24	56	18	35	0	0.14	-0.56	0.11	0.02	10	38.25	107	77	47	0	7	3	0
	BINGHAMTON	43	26	50	23	34	1	0.15	-0.64	0.11	0.00	0	46.89	131	83	55	0	7	2	0
	BUFFALO	50	30	65	27	40	4	0.10	-0.84	0.10	0.00	0	45.56	123	81	52	0	6	1	0
	ROCHESTER	51	28	66	24	39	3	0.07	-0.60	0.06	0.00	0	43.08	137	83	62	0	6	2	0
	SYRACUSE	46	25	57	20	36	1	0.18	-0.71	0.09	0.01	4	43.67	117	92	55	0	7	3	0
NC	ASHEVILLE	62	35	67	26	49	6	0.00	-0.85	0.00	0.00	0	51.64	118	80	36	0	4	0	0
	CHARLOTTE	66	35	72	25	50	1	0.02	-0.68	0.02	0.02	10	42.58	105	93	31	0	3	1	0
	GREENSBORO	62	37	69	30	49	3	0.00	-0.69	0.00	0.00	0	41.27	102	75	28	0	2	0	0
	HATTERAS	65	46	71	40	56	1	0.01	-0.98	0.01	0.01	4	53.25	100	98	57	0	0	1	0
	RALEIGH	63	35	70	26	49	1	0.00	-0.67	0.00	0.00	0	43.27	108	88	29	0	3	0	0
	WILMINGTON	69	41	75	33	55	1	0.00	-0.83	0.00	0.00	0	58.76	110	95	42	0	0	0	0
ND	BISMARCK	56	25	67	20	40	18	0.00	-0.11	0.00	0.00	0	14.78	90	71	39	0	7	0	0
	DICKINSON	53	27	63	22	40	16	0.00	-0.08	0.00	0.00	0	11.56	72	77	30	0	7	0	0
	FARGO	47	23	54	18	35	15	0.00	-0.14	0.00	0.00	0	14.98	73	79	47	0	7	0	0
	GRAND FORKS	42	23	49	18	33	14	0.00	-0.14	0.00	0.00	0	17.10	90	93	61	0	7	0	0
	JAMESTOWN	48	22	54	18	35	14	0.00	-0.10	0.00	0.00	0	13.69	76	86	43	0	7	0	0
	WILLISTON	47	26	54	18	37	18	0.06	-0.08	0.06	0.00	0	11.81	87	68	47	0	7	1	0
OH	AKRON-CANTON	52	33	64	28	43	6	0.13	-0.61	0.13	0.00	0	46.57	130	71	46	0	4	1	0
	CINCINNATI	57	34	63	25	45	4	0.08	-0.71	0.08	0.00	0	48.07	122	84	50	0	4	1	0
	CLEVELAND	54	34	66	27	44	6	0.13	-0.70	0.13	0.00	0	44.85	125	76	46	0	3	1	0
	COLUMBUS	54	32	63	27	43	3	0.11	-0.66	0.11	0.00	0	47.87	134	77	47	0	4	1	0
	DAYTON	54	33	61	26	43	5	0.06	-0.71	0.06	0.00	0	49.69	135	83	42	0	4	1	0
	MANSFIELD	53	32	63	26	42	6	0.16	-0.72	0.16	0.00	0	47.42	118	82	43	0	3	1	0

Based on 1971-2000 normals

***** Not Available**

Weather Data for the Week Ending December 2, 2017

STATES AND STATIONS		TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY PERCENT		NUMBER OF DAYS TEMP. °F		NUMBER OF DAYS PRECIP	
		AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE DEC 1	PCT. NORMAL SINCE DEC 1	TOTAL, IN., SINCE JAN01	PCT. NORMAL SINCE JAN01	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
	TOLEDO	54	31	66	26	43	7	0.09	-0.57	0.09	0.00	0	37.91	123	82	51	0	6	1	0
	YOUNGSTOWN	52	31	64	24	42	5	0.15	-0.62	0.15	0.00	0	42.31	120	79	48	0	6	1	0
OK	OKLAHOMA CITY	66	41	75	33	54	10	0.00	-0.44	0.00	0.00	0	32.98	97	88	43	0	0	0	0
	TULSA	66	43	74	32	55	10	0.62	-0.13	0.60	0.00	0	44.59	111	81	50	0	1	2	1
OR	ASTORIA	52	40	63	34	46	1	3.17	0.56	1.34	0.87	118	77.16	134	97	88	0	0	7	3
	BURNS	42	19	59	16	31	2	0.15	-0.13	0.10	0.10	125	10.91	117	95	80	0	7	3	0
	EUGENE	49	36	57	33	43	1	1.17	-0.97	0.41	0.45	74	38.60	89	100	96	0	0	5	0
	MEDFORD	46	35	64	32	41	0	0.64	-0.10	0.41	0.16	76	17.50	112	99	77	0	1	4	0
	PENDLETON	50	32	55	30	41	4	0.42	0.05	0.33	0.00	0	15.26	134	82	72	0	4	2	0
	PORTLAND	50	42	55	37	46	3	1.37	-0.05	0.56	0.30	75	42.98	135	98	85	0	0	5	1
	SALEM	50	41	59	37	46	3	1.31	-0.32	0.58	0.59	128	48.42	142	94	83	0	0	5	1
PA	ALLENTOWN	54	28	63	25	41	3	0.04	-0.81	0.04	0.00	0	49.70	118	75	46	0	7	1	0
	ERIE	52	34	65	29	43	4	0.13	-0.81	0.13	0.00	0	48.98	125	62	54	0	4	1	0
	MIDDLETOWN	54	30	63	27	42	2	0.03	-0.82	0.03	0.00	0	43.34	116	91	40	0	6	1	0
	PHILADELPHIA	56	36	64	33	46	3	0.02	-0.75	0.02	0.00	0	40.63	104	76	41	0	0	1	0
	PITTSBURGH	53	32	64	25	43	5	0.15	-0.59	0.15	0.00	0	42.39	120	81	39	0	3	1	0
	WILKES-BARRE	50	29	59	27	40	2	0.04	-0.67	0.03	0.00	0	37.17	106	84	45	0	7	2	0
	WILLIAMSPORT	53	28	61	27	40	3	0.02	-0.81	0.02	0.00	0	45.47	117	80	40	0	7	1	0
RI	PROVIDENCE	51	31	63	22	41	1	0.04	-0.95	0.04	0.04	14	46.47	109	80	44	0	4	1	0
SC	BEAUFORT	73	49	78	40	61	6	0.00	-0.48	0.00	0.00	0	46.49	99	100	57	0	0	0	0
	CHARLESTON	72	46	77	37	59	4	0.00	-0.63	0.00	0.00	0	50.37	104	99	50	0	0	0	0
	COLUMBIA	69	41	77	28	55	4	0.05	-0.58	0.05	0.00	0	44.19	98	96	46	0	2	1	0
	GREENVILLE	66	40	72	32	53	5	0.01	-0.84	0.01	0.00	0	50.19	108	78	31	0	1	1	0
SD	ABERDEEN	53	18	58	12	35	12	0.00	-0.08	0.00	0.00	0	15.38	77	75	45	0	6	0	0
	HURON	55	24	70	19	40	14	0.00	-0.12	0.00	0.00	0	21.71	106	76	30	0	6	0	0
	RAPID CITY	58	25	71	16	41	12	0.00	-0.06	0.00	0.00	0	11.69	72	59	22	0	6	0	0
	SIOUX FALLS	55	23	67	16	39	14	0.00	-0.21	0.00	0.00	0	25.60	106	73	43	0	7	0	0
TN	BRISTOL	61	30	65	22	46	4	0.10	-0.70	0.10	0.00	0	42.86	112	99	42	0	5	1	0
	CHATTANOOGA	65	38	69	30	51	4	0.05	-1.15	0.05	0.00	0	55.14	110	88	45	0	2	1	0
	KNOXVILLE	62	36	65	28	49	3	0.03	-0.99	0.03	0.00	0	49.10	112	94	47	0	3	1	0
	MEMPHIS	67	42	69	37	54	6	0.02	-1.49	0.02	0.00	0	44.11	89	75	37	0	0	1	0
	NASHVILLE	65	37	69	30	51	5	0.24	-0.89	0.24	0.00	0	48.36	110	83	37	0	1	1	0
TX	ABILENE	71	44	75	36	58	9	0.00	-0.22	0.00	0.00	0	19.87	88	75	48	0	0	0	0
	AMARILLO	67	35	84	28	51	10	0.00	-0.08	0.00	0.00	0	26.48	138	75	24	0	1	0	0
	AUSTIN	76	43	79	40	59	3	0.00	-0.52	0.00	0.00	0	37.89	121	71	47	0	0	0	0
	BEAUMONT	75	49	81	44	62	4	0.00	-1.13	0.00	0.00	0	98.07	178	91	48	0	0	0	0
	BROWNSVILLE	84	61	86	58	73	8	0.00	-0.31	0.00	0.00	0	21.72	82	97	53	0	0	0	0
	CORPUS CHRISTI	80	53	82	49	67	5	0.00	-0.33	0.00	0.00	0	26.52	87	98	56	0	0	0	0
	DEL RIO	77	51	79	40	64	8	0.00	-0.17	0.00	0.00	0	22.69	129	88	54	0	0	0	0
	EL PASO	72	45	79	40	59	10	0.00	-0.12	0.00	0.00	0	9.41	108	49	22	0	0	0	0
	FORT WORTH	74	49	79	44	62	11	0.00	-0.50	0.00	0.00	0	32.02	99	76	41	0	0	0	0
	GALVESTON	73	60	74	56	66	4	0.00	-0.87	0.00	0.00	0	53.48	132	97	58	0	0	0	0
	HOUSTON	76	49	78	46	63	5	0.00	-0.89	0.00	0.00	0	75.98	171	94	52	0	0	0	0
	LUBBOCK	69	38	79	31	53	9	0.00	-0.14	0.00	0.00	0	21.95	122	75	33	0	1	0	0
	MIDLAND	73	40	84	35	57	9	0.00	-0.11	0.00	0.00	0	17.38	123	74	39	0	0	0	0
	SAN ANGELO	75	42	79	33	59	9	0.00	-0.19	0.00	0.00	0	17.35	87	73	44	0	0	0	0
	SAN ANTONIO	78	51	80	46	64	8	0.00	-0.47	0.00	0.00	0	23.29	75	82	40	0	0	0	0
	VICTORIA	80	47	83	44	64	5	0.00	-0.55	0.00	0.00	0	45.21	120	94	42	0	0	0	0
	WACO	74	44	78	34	59	6	0.00	-0.60	0.00	0.00	0	31.65	103	84	45	0	0	0	0
	WICHITA FALLS	71	42	79	34	57	9	0.00	-0.33	0.00	0.00	0	24.61	90	80	45	0	0	0	0
UT	SALT LAKE CITY	55	34	69	28	45	10	0.19	-0.10	0.19	0.00	0	15.24	99	87	47	0	4	1	0
VT	BURLINGTON	43	25	53	15	34	2	0.34	-0.30	0.10	0.06	33	37.73	111	82	52	0	6	5	0
VA	LYNCHBURG	60	31	68	26	45	2	0.00	-0.74	0.00	0.00	0	32.21	80	74	31	0	5	0	0
	NORFOLK	61	39	70	35	50	1	0.00	-0.64	0.00	0.00	0	46.76	109	96	44	0	0	0	0
	RICHMOND	62	33	71	29	48	2	0.00	-0.66	0.00	0.00	0	36.91	90	80	36	0	3	0	0
	ROANOKE	61	35	68	32	48	4	0.00	-0.72	0.00	0.00	0	37.16	93	73	32	0	2	0	0
	WASH/DULLES	58	30	68	25	44	2	0.03	-0.71	0.03	0.00	0	39.89	102	85	42	0	7	1	0
WA	OLYMPIA	48	36	54	34	42	2	2.30	0.30	0.64	0.81	142	55.12	127	99	90	0	0	7	3
	QUILLAYUTE	49	37	56	34	43	1	5.28	1.72	2.01	2.39	237	100.96	114	94	89	0	0	7	4
	SEATTLE-TACOMA	49	41	58	38	45	2	2.23	0.79	0.76	1.03	251	43.45	136	89	74	0	0	6	2
	SPOKANE	42	32	57	30	37	6	0.40	-0.17	0.17	0.06	38	19.55	134	99	76	0	5	5	0
	YAKIMA	45	30	53	26	37	4	0.00	-0.28	0.00	0.00	0	10.30	148	89	82	0	5	0	0
WV	BECKLEY	56	35	62	26	46	6	0.01	-0.69	0.01	0.00	0	41.13	106	70	34	0	3	1	0
	CHARLESTON	59	31	67	26	45	2	0.06	-0.81	0.06	0.00	0	45.21	110	86	35	0	5	1	0
	ELKINS	56	24	65	21	40	2	0.13	-0.70	0.13	0.00	0	43.56	102	89	41	0	7	1	0
	HUNTINGTON	58	34	66	29	46	4	0.02	-0.77	0.02	0.00	0	44.97	115	80	35	0	5	1	0
WI	EAU CLAIRE	50	23	56	18	36	10	0.00	-0.36	0.00	0.00	0	35.07	112	89	37	0	6	0	0
	GREEN BAY	49	28	58	22	39	10	0.00	-0.46	0.00	0.00	0	30.75	110	86	51	0	6	0	0
	LA CROSSE	53	28	60	22	41	11	0.00	-0.42	0.00	0.00	0	39.06	125	87	39	0	6	0	0
	MADISON	51	26	58	19	38	8	0.00	-0.50	0.00	0.00	0	38.55	123	79	51	0	6	0	0
	MILWAUKEE	53	35	59	27	44	11	0.00	-0.61	0.00	0.00	0	35.61	109	75	50	0	3	0	0
WY	CASPER	54	25	67	11	40	13	0.01	-0.15	0.01	0.00	0	12.94	104	53	31	0	5	1	0
	CHEYENNE	58	29	71	23	44	14	0.00	-0.13	0.00	0.00	0	14.48	96	54	38	0	5	0	0
	LANDER	51	25	63	19	38	13	0.02	-0.16	0.02	0.00	0	18.67	145	77	28	0	7	1	0
	SHERIDAN	52	22	65	14	37	11	0.11	-0.03	0.11	0.00	0	18.31	130	84	45	0	7	1	0

Based on 1971-2000 normals

***** Not Available**

National Agricultural Summary

November 27 – December 3, 2017

Weekly National Agricultural Summary provided by USDA/NASS

HIGHLIGHTS

Rain and snow persisted across the Pacific Northwest and Northern Rockies for most of the week, while the rest of the nation was drier and warmer than normal. Pockets of thunderstorms were observed near the Gulf Coast, but the weather was still drier than average in eastern Texas and the Delta states. Temperatures remained higher than average in the center of the country, with parts of the Dakotas averaging at least 15°F above normal. High temperatures peaked in the 50- to 60-degree range along the Canadian border. The weather was chillier in New England, with weekly temperatures averaging below freezing in parts of Maine.

California: While most of the nation was drier than normal, rain and snow provided a late boost to pasture conditions in California, though supplemental feeding was still needed. No pastures were rated in excellent condition during the week, but 30 percent were rated in good condition. This was an increase of 10 percentage points from the previous week. The precipitation also helped winter wheat emergence jump 25 percentage points to 60 percent emerged by December 3. Ninety-five percent of the winter wheat crop was reported in good or excellent condition. Harvests for apples, broccoli, lettuce, table grapes, and other fruit and vegetables were wrapping up. Lemon, grapefruit, mandarin and pomelo harvests continued, while young citrus trees were bagged to protect them from frost. Statewide, the cotton harvest was 85 percent complete by December 3, behind the previous year by 7 percentage points and behind the 5-year average by 13 points.

Florida: Temperatures were mild, with averages ranging from near 60°F in the Panhandle to the 70s in the lower one-third of the state. The majority of the state was slightly drier than average, with the exception of the Miami area which received over 2 inches of precipitation during the week. The lack of rain slightly lowered pasture and range conditions from the previous week to 38 percent reported in good to excellent condition. The weather conditions allowed 6.7 days suitable for fieldwork. Cotton harvested was reported 88 percent complete by December 3, an increase of thirteen percentage points from the previous week. Producers were harvesting a variety of fruits and vegetables, including avocado, cabbage, cucumber, eggplant, okra, peppers, radishes, squash, sweet corn, and tomatoes. Citrus growers were spraying for psyllids, fertilizing, applying herbicides, mowing, and pushing up dead or dying trees. Harvesting for the fresh market included Hamlin and Navel oranges, red and white grapefruit, various tangerine varieties, and a limited amount of tangelos. On the processed side, the majority of the harvest was early oranges, followed by red grapefruit.

International Weather and Crop Summary

November 26 - December 2, 2017

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

EUROPE: Cold weather sped winter crops into dormancy over central and northern Europe, while drought persisted across northern portions of the Iberian Peninsula.

MIDDLE EAST: Lingering showers boosted moisture supplies for winter grain establishment in Turkey, while sunny weather promoted winter crop planting and emergence elsewhere.

NORTHWESTERN AFRICA: Much-needed rainfall provided moisture for winter grain establishment in Morocco and western Algeria, though follow-up rain will be needed to fully ease the drought's impacts.

SOUTHEAST ASIA: Unseasonably heavy showers caused localized flooding in Malaysia and Indonesia but generally occurred outside major crop-producing areas.

AUSTRALIA: Soaking rains disrupted winter crop harvesting and likely reduced local crop quality but maintained good to excellent early-season yield prospects for summer crops.

SOUTH AFRICA: Beneficial rain continued in central and eastern sections of the corn belt.

ARGENTINA: Rainfall benefited emerging summer grains and oilseeds in Argentina's western farming areas.

BRAZIL: Widespread, locally heavy showers maintained overall favorable conditions for summer crops in most major farming areas.

November 2017

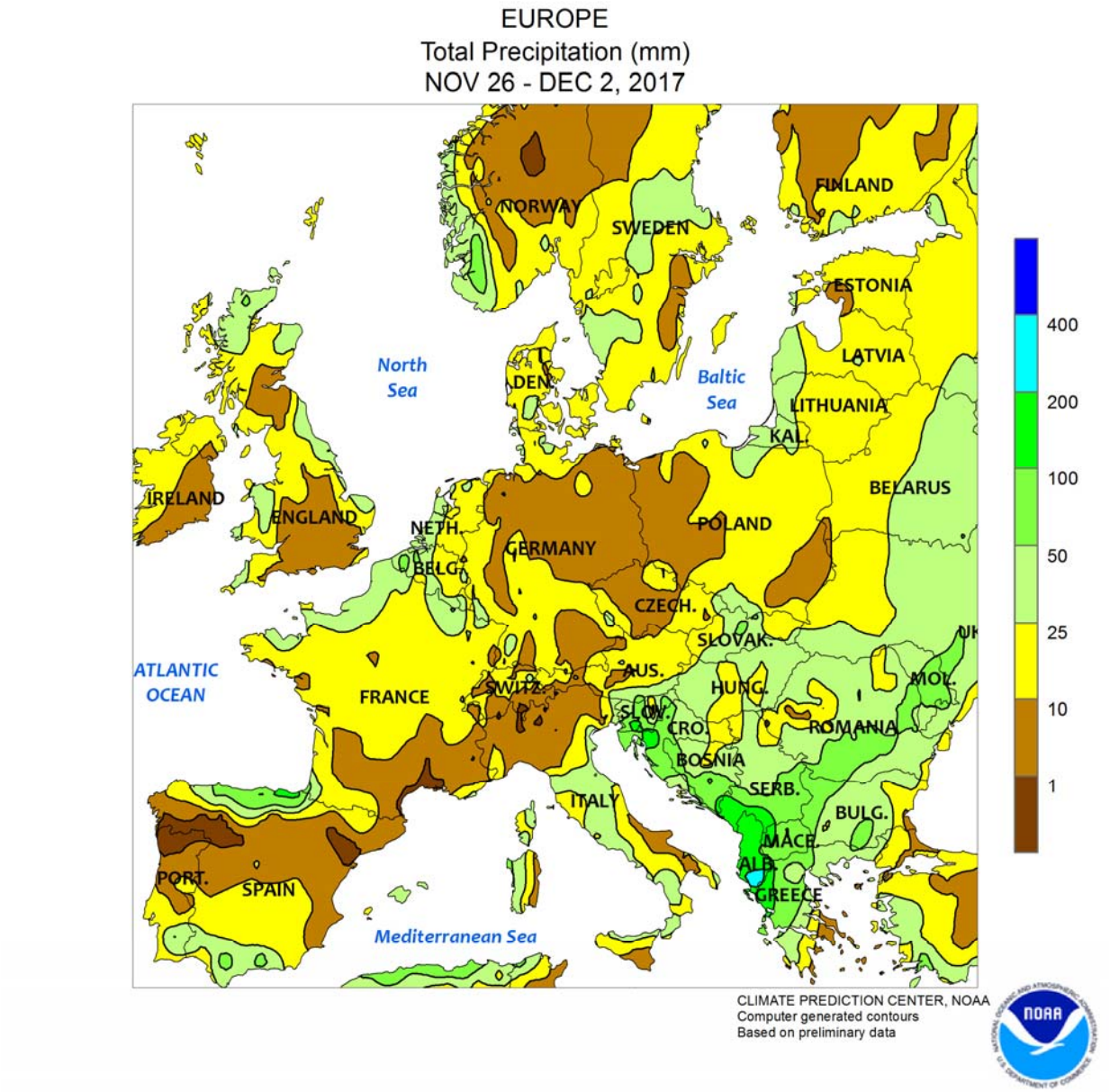
COUNTRY	CITY	TEMPERATURE (C)						PRECIP. (MM)	
		AVG MAX	AVG MIN	HI MAX	LO MIN	AVG	DEP NRM	TOT	DEP NRM
ALGERI	ALGER	21	8	28	4	15	-0.3	128	47
	BATNA	17	2	29	-5	10	-1.1	27	9
ARGENT	IGUAZU	29	17	35	11	23	-1.2	275	138
	FORMOSA	30	18	37	11	24	-0.8	113	-57
	CERES	30	15	42	10	23	0.5	70	-32
	CORDOBA	30	12	39	9	21	0.5	52	-57
	RIO CUARTO	27	13	36	6	20	0.7	72	-60
	ROSARIO	28	14	39	6	21	0.4	51	-60
	BUENOS AIRES	26	13	33	6	19	0.2	16	-77
	SANTA ROSA	26	11	35	5	19	-0.7	108	12
	TRES ARROYOS	22	10	33	4	16	-0.6	72	-13
AUSTRA	DARWIN	33	25	35	22	29	-0.2	109	-25
	BRISBANE	25	18	28	14	22	-0.8	78	-29
	PERTH	30	15	38	10	23	3.4	2	-24
	CEDUNA	27	14	39	5	21	1.5	0	-20
	ADELAIDE	26	17	37	10	22	3.4	3	-18
	MELBOURNE	26	14	37	4	20	4	41	-8
	WAGGA	28	14	34	4	21	3	37	-4
	CANBERRA	24	10	31	3	17	1.3	70	4
AUSTRI	VIENNA	9	3	16	-5	6	1.5	65	19
	INNSBRUCK	7	1	17	-5	4	0.8	77	11
BAHAMA	NASSAU	29	22	32	20	26	1.5	22	-46
BARBAD	BRIDGETOWN	30	25	31	22	27	0.2	186	54
BELARU	MINSK	4	2	10	-4	3	2.6	45	-4
BERMUD	ST GEORGES	25	20	26	18	22	0.6	98	8
BOLIVI	LA PAZ	18	2	21	-4	10	0.6	17	-37
BRAZIL	FORTALEZA	31	26	32	24	28	0	3	-22
	RECIFE	29	25	30	23	27	-1.4	9	-19
	CAMPO GRANDE	30	21	34	15	26	-0.1	101	-51
	FRANCA	28	18	31	17	23	0.6	170	17
	RIO DE JANEIRO	29	22	38	18	26	0.5	106	7
	LONDRINA	30	18	36	13	24	1.1	242	72
	SANTA MARIA	28	15	37	9	22	-0.3	70	-54
	TORRES	25	17	32	12	21	-2.2	111	-30
BULGAR	SOFIA	10	2	15	-9	6	1.6	50	7
BURKIN	OUAGADOUGOU	36	20	38	16	28	0.4	0	-3
CANADA	LETHBRIDGE	3	-8	17	-21	-3	*****	5	******
	REGINA	-3	-13	8	-28	-8	*****	11	******
	WINNIPEG	-1	-9	6	-17	-5	*****	14	******
	TORONTO	8	0	17	-10	4	0.6	60	-9
	MONTREAL	6	-3	17	-11	1	-0.5	86	-6
	PRINCE ALBERT	-6	-14	3	-22	-10	-2.5	19	4
	CALGARY	1	-9	15	-19	-4	-1	25	13
	VANCOUVER	9	4	16	-4	7	0.8	195	15
CANARY	LAS PALMAS	25	19	29	17	22	1.3	4	-13
CHILE	SANTIAGO	27	11	33	8	19	2.1	0	-5
CHINA	HARBIN	-1	-10	14	-23	-5	-0.4	7	-3
	HAMI	10	-5	21	-12	3	2.3	0	-2
	BEIJING	10	-1	20	-7	4	-0.2	0	-7
	TIENTSIN	11	0	20	-6	5	-0.4	0	-9
	LHASA	14	-2	18	-7	6	2.2	0	-1
	KUNMING	19	8	24	4	13	1.3	9	-33
	CHENGCHOW	16	6	25	-2	11	2.6	1	-22
	YEHCHANG	16	9	26	3	13	0.4	11	-35
	HANKOW	18	8	25	2	13	0.5	18	-30
	CHUNGKING	18	13	26	8	16	1.3	29	-19
	CHIHKIANG	17	10	27	3	13	0.7	13	-41
	WU HU	17	8	24	1	12	0.7	35	-23
	SHANGHAI	17	11	23	2	14	0.5	82	29
	NANCHANG	18	12	26	7	15	1.4	92	35
	TAIPEI	25	21	32	16	23	1.3	113	41
	CANTON	24	17	30	10	20	0.2	47	12
	NANNING	22	16	30	8	19	-0.2	67	27
COLOMB	BOGOTA	20	9	22	5	15	1.4	143	56
COTE D	ABIDJAN	31	25	32	22	28	0	239	107
CUBA	CAMAGUEY	28	22	31	20	25	0.5	139	73
CYPRUS	LARNACA	23	13	26	8	18	1.2	62	9
CZECHR	PRAGUE	7	2	13	-1	5	1.9	35	6
DENMAR	COPENHAGEN	8	4	13	-3	6	1.1	58	13
EGYPT	CAIRO	24	16	27	14	20	1	1	-4

Based on Preliminary Reports

November 2017

COUNTRY	CITY	TEMPERATURE (C)						PRECIP. (MM)	
		AVG MAX	AVG MIN	HI MAX	LO MIN	AVG	DEP NRM	TOT	DEP NRM
	ASWAN	29	***	36	10	***	*****	0	0
ESTONI	TALLINN	4	1	9	-3	3	2.0	88	20
ETHIOP	ADDIS ABABA	***	***	23	8	***	*****	*****	******
F GUIA	CAYENNE	32	23	33	21	27	1.1	138	-15
FIJI	NAUSORI	30	24	32	21	27	1.6	493	249
FINLAN	HELSINKI	4	1	9	-6	3	2.4	109	38
FRANCE	PARIS/ORLY	11	5	16	-2	8	0.6	42	-7
	STRASBOURG	10	4	20	-2	7	1.4	87	39
	BOURGES	10	4	19	-2	7	0.4	65	3
	BORDEAUX	14	5	22	-2	9	0.2	49	-55
	TOULOUSE	13	5	20	-1	9	-0.1	18	-32
	MARSEILLE	15	6	21	0	11	0.4	40	-10
GABON	LIBREVILLE	29	24	31	21	27	0.7	677	154
GERMAN	HAMBURG	8	4	15	-2	6	1.2	88	18
	BERLIN	9	5	15	-1	7	1.8	71	27
	DUSSELDORF	10	5	15	-2	7	0.4	65	3
	LEIPZIG	9	4	15	-3	6	1.8	38	3
	DRESDEN	8	4	16	-2	6	1.4	53	9
	STUTTGART	8	3	18	-3	6	1.2	74	29
	NURNBERG	8	3	15	-4	5	1.3	72	28
	AUGSBURG	7	2	16	-3	5	1.2	46	-5
GREECE	THESSALONIKA	15	7	20	-1	11	0.7	72	14
	LARISSA	16	5	19	-2	11	0.5	70	-1
	ATHENS	20	13	24	6	16	1.1	102	34
GUADEL	RAIZET	31	23	31	20	27	0.7	109	-87
HONGKO	HONG KONG INT	26	21	30	15	23	1.6	20	-16
HUNGAR	BUDAPEST	9	4	15	-4	6	1.9	46	-2
ICELAN	REYKJAVIK	2	-1	8	-7	0	-0.9	82	0
INDIA	AMRITSAR	25	10	37	6	18	0.0	3	-4
	NEW DELHI	28	13	32	8	20	-0.2	1	-7
	AHMEDABAD	32	16	37	12	24	-0.5	0	-10
	INDORE	29	15	32	11	22	-0.1	0	-15
	CALCUTTA	30	19	33	14	24	0.1	71	34
	VERAVAL	34	21	36	17	27	0.7	0	-26
	BOMBAY	34	21	35	18	27	0.1	0	-6
	POONA	30	14	33	12	22	-0.2	14	-13
	BEGAMPET	31	18	33	14	25	1.4	0	-29
	VISHAKHAPATNAM	32	25	34	20	28	2.1	14	-88
	MADRAS	30	23	34	22	27	0.4	583	228
	MANGALORE	33	23	35	20	28	0.6	71	5
INDONE	SERANG	33	25	36	22	29	0.9	233	83
IRELAN	DUBLIN	9	5	14	0	7	-0.6	83	18
ITALY	MILAN	12	5	19	-2	8	1.2	89	13
	VENICE	12	6	17	-1	9	1.0	258	188
	GENOA	16	11	20	5	13	0.7	159	57
	ROME	17	8	21	-1	13	0.1	117	21
	NAPLES	17	9	21	1	13	0.5	150	11
JAMAIC	KINGSTON	31	24	33	23	28	0.2	145	55
JAPAN	SAPPORO	7	2	17	-7	4	-0.2	135	33
	NAGOYA	16	8	23	3	12	0.1	50	-30
	TOKYO	17	8	22	4	13	-0.5	47	-45
	YOKOHAMA	17	10	22	4	13	0.3	68	-31
	KYOTO	16	8	23	3	12	-0.8	44	-19
	OSAKA	17	9	22	5	13	-0.5	62	-2
KAZAKH	KUSTANAY	3	-3	8	-11	0	5.9	6	-17
	TSELINOGRAD	2	-3	11	-10	-1	5.9	21	-5
	KARAGANDA	2	-4	9	-14	-1	4.2	22	-6
KENYA	NAIROBI	25	16	26	13	20	0.7	140	26
LIBYA	TRIPOLI	***	***	9	***	***	*****	*****	******
	BENGHAZI	***	***	17	***	***	*****	*****	******
LITHUA	KAUNAS	5	3	10	-1	4	2.0	48	1
LUXEMB	LUXEMBOURG	7	3	15	-1	5	1.4	93	15
MALAYS	KUALA LUMPUR	32	24	34	23	28	1.4	342	53
MALI	BAMAKO	35	17	38	14	26	-1.0	0	-5
MARSHA	MAJURO	30	26	32	24	28	1.0	262	-59
MARTIN	LAMENTIN	31	24	33	22	28	1.6	106	-95
MAURIT	NOUAKCHOTT	35	20	41	13	27	1.4	0	-3
MEXICO	GUADALAJARA	27	11	31	5	19	1.4	1	-13
	TLAXCALA	24	7	29	3	16	0.7	2	-16
	ORIZABA	23	13	26	10	18	0.4	43	-33
MOROCC	CASABLANCA	23	12	30	8	18	1.7	59	6
	MARRAKECH	27	11	32	7	19	2.4	32	8
MOZAMB	MAPUTO	28	19	36	16	24	-0.5	97	22
N KORE	PYONGYANG	8	0	19	-9	4	-0.9	17	-24
NEW CA	NOUMEA	28	22	32	19	25	1.5	3	-67
NIGER	NIAMEY	37	21	39	18	29	0.8	0	-1
NORWAY	OSLO	3	-2	8	-11	0	0.8	83	-4
NZEALA	AUCKLAND	21	13	24	8	17	*****	25	******
	WELLINGTON	18	12	22	7	15	*****	11	******
P RICO	SAN JUAN	31	25	33	23	28	1.2	255	99
PAKIST	KARACHI	32	17	36	11	25	0.5	0	******
PERU	LIMA	22	17	25	14	19	0.0	0	-1
PHILIP	MANILA	32	25	34	22	29	0.6	162	19
PNEWGU	PORT MORESBY	31	25	33	23	28	1.0	10	-43
POLAND	WARSAW	7	3	13	-3	5	2.2	41	5
	LODZ	7	3	13	-3	5	2.3	45	4
	KATOWICE	7	2	15	-3	5	1.4	62	13
PORTUG	LISBON	19	11	21	7	15	1.2	78	-24
ROMANI	BUCHAREST	10	4	21	-5	7	2.5	62	22
RUSSIA	ST.PETERSBURG	4	1	9	-5	2	2.4	37	-17
	KAZAN	1	-1	4	-7	0	3.6	40	-6
	MOSCOW	1	-1	7	-7	0	1.7	53	-5
	YEKATERINBURG	-1	-4	4	-13	-2	3.8	19	-10
	OMSK	-2	-7	8	-18	-4	3.5	17	-12
	BARNAUL	-1	-7	17	-24	-4	2.5	17	-12
	KHABAROVSK	-6	-14	7	-28	-10	-2.2	29	6
	VLADIVOSTOK	1	-4	14	-14	-2	-0.6	33	7
	VOLGOGRAD	5	0	13	-7	2	2.8	34	3
	ASTRAKHAN	8	2	16	-6	5	2.2	16	-1
	ORENBURG	3	-1	11	-10	1	4.9	22	-13
S AFRI	JOHANNESBURG	26	13	31	4	19	1.0	90	-27
	DURBAN	25	18	31	11	21	-0.2	124	12
	CAPE TOWN	24	13	30	9	19	0.7	33	16
S KORE	SEOUL	11	2	18	-7	6	-1.0	42	-21
SAMOA	PAGO PAGO	31	26	32	23	28	0.7	355	71
SENEGA	DAKAR	32	25	38	21	29	2.9	0	-3
SPAIN	VALLADOLID	14	2	21	-3	8	0.4	19	-29
	MADRID	17	3	21	-3	10	-0.2	6	-45
	SEVILLE	22	9	27	5	16	0.4	62	-35
SWITZE	ZURICH	8	3	16	-1	5	1.2	87	-1
	GENEVA	9	3	17	-3	6	0.9	67	-18
SYRIA	DAMASCUS	22	6	26	-1	14	2.5	0	-23
TAHITI	PAPEETE	30	24	32	23	27	0.7	180	50
TANZAN	DAR ES SALAAM	31	24	33	22	28	1.2	201	85
THAILA	PHITSANULOK	33	24	35	21	28	1.5	2	-30
	BANGKOK	33	25	35	24	29	1.3	46	-3
TOGO	TABLIGBO	34	24	35	22	29	1.5	113	78
TRINID	PORT OF SPAIN	32	24	33	22	28	1.2	112	-86
TUNISI	TUNIS	20	12	28	8	16	0.3	36	-27
TURKEY	ISTANBUL	16	10	20	4	13	2.0	60	-21
	ANKARA	12	-1	18	-7	6	0.7	35	-5
TURKME	ASHKHABAD	18	8	27	1	13	3.2	11	-9
UKINGD	ABERDEEN	8	3	16	-2	5	-0.3	105	22
	LONDON	11	5	16	-1	8	0.1	35	-16
UKRAIN	KIEV	5	2	11	-5	4	2.0	45	-2
	LVOV	6	1	13	-5	3	1.2	65	21
	KIROVOGRAD	6	1	12	-7	4	2.4	18	-17
	ODESSA	9	5	15	-2	7	1.8	26	-17
	KHARKOV	4	1	15	-7	2	1.5	56	13
UZBEKI	TASHKENT	17	6	32	-1	12	3.3	37	-12
YUGOSL	BELGRADE	12	6	18	-1	9	2.4	51	-2
ZAMBIA	LUSAKA	27	20	34	16	24	-1.5	82	-10
ZIMBAB	KADOMA	28	16	37	13	22	-3.3	68	-19

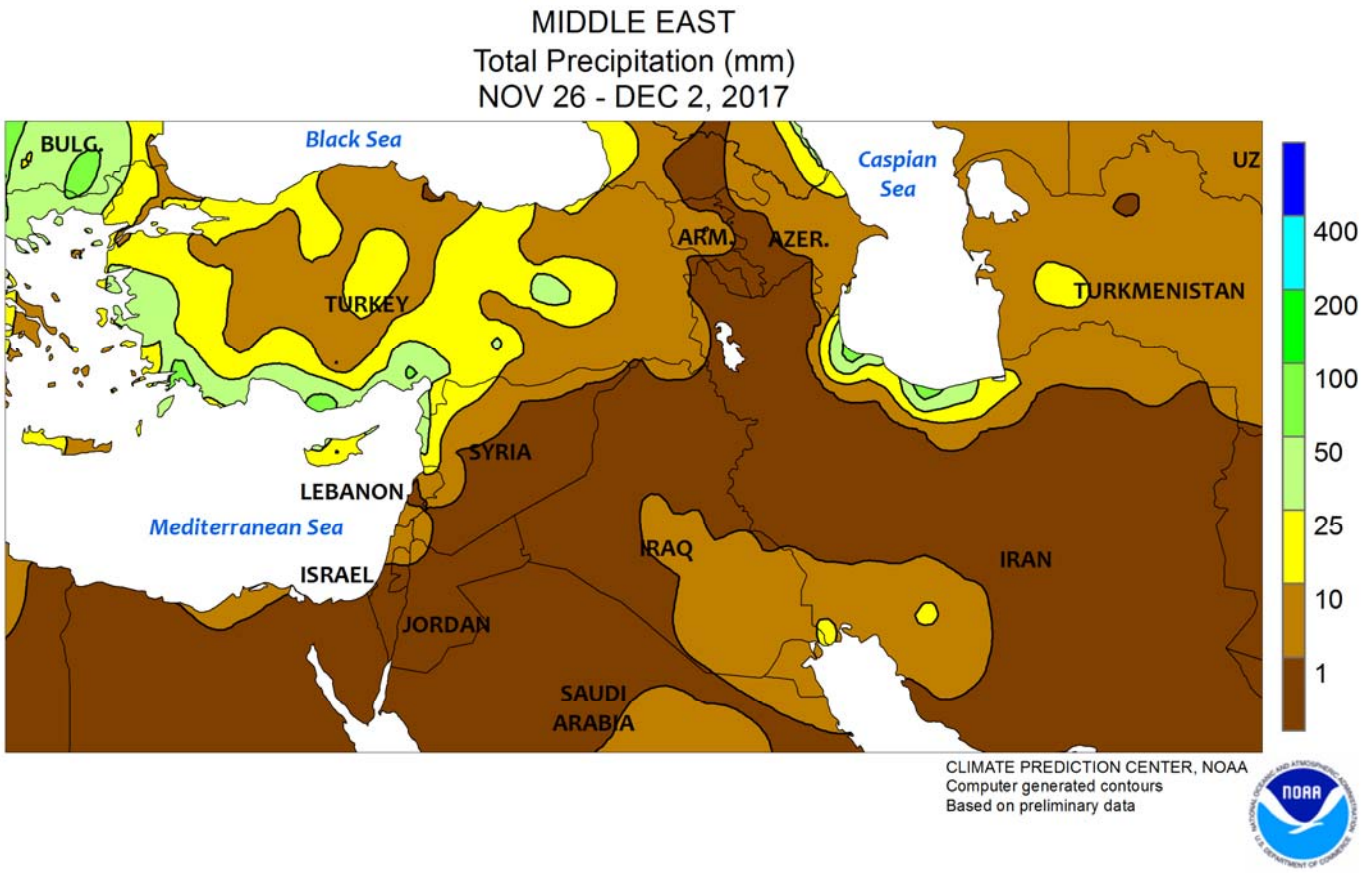
Based on Preliminary Reports



EUROPE

Sharply colder weather ushered winter crops into dormancy, while drought lingered — despite some showers — across the Iberian Peninsula. The coldest weather of the season (up to 5°C below normal) arrived across central and western Europe, with hard freezes (-2°C or lower) reported over much of the continent. By week's end, 7-day average temperatures well below 5°C indicated winter crops were now dormant from northern France and southeastern England into almost all of eastern Europe, though crops in southern-most portions of the Balkans remained vegetative. A shallow, intermittent snow cover extended from the higher terrain of southern and east-central France into southern and eastern Poland and the Baltic States. Sharply colder weather (readings as low as -8°C) also arrived in northern Spain, possibly causing some burnback to newly-emerged winter wheat and barley. However, the bigger issue facing winter grain producers in Spain and Portugal was drought, with this week's rain (which totaled locally more than 50 mm) bypassing key wheat and barley production areas across northern portions of the Iberian Peninsula.

For additional information contact: mbrusberg@oce.usda.gov



MIDDLE EAST

Lingering showers in Turkey contrasted with drier weather elsewhere. A series of disturbances passing north of the region maintained showery weather across Turkey. Precipitation was heaviest across southern and western portions of the country, while the main winter grain production areas of central Turkey's Anatolian Plateau generally received less than 10 mm. Nevertheless, prospects for wheat and barley establishment are favorable in Turkey in advance of the arrival of seasonably colder weather. Elsewhere, sunny skies and near- to below-normal temperatures favored winter crop planting and emergence, although scattered light to moderate showers (2-15 mm, locally more) were reported along the eastern Mediterranean Coast and in southern Iraq.

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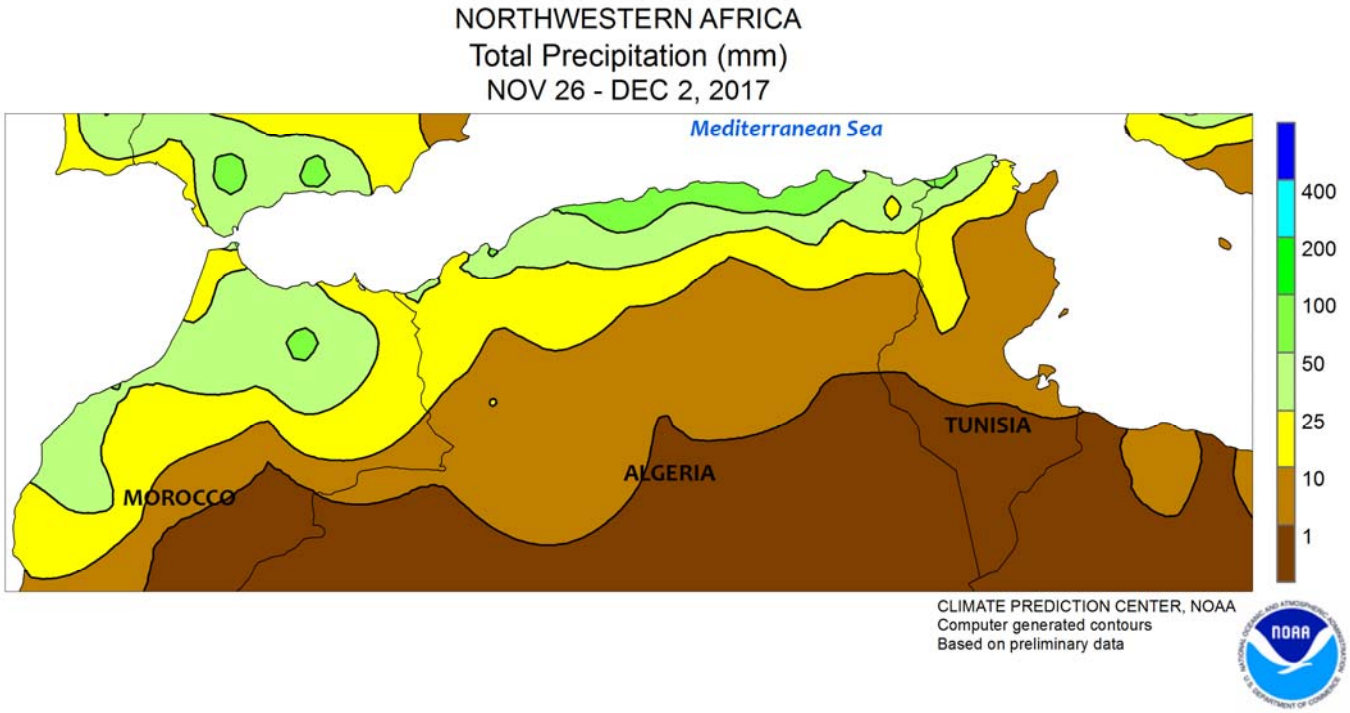
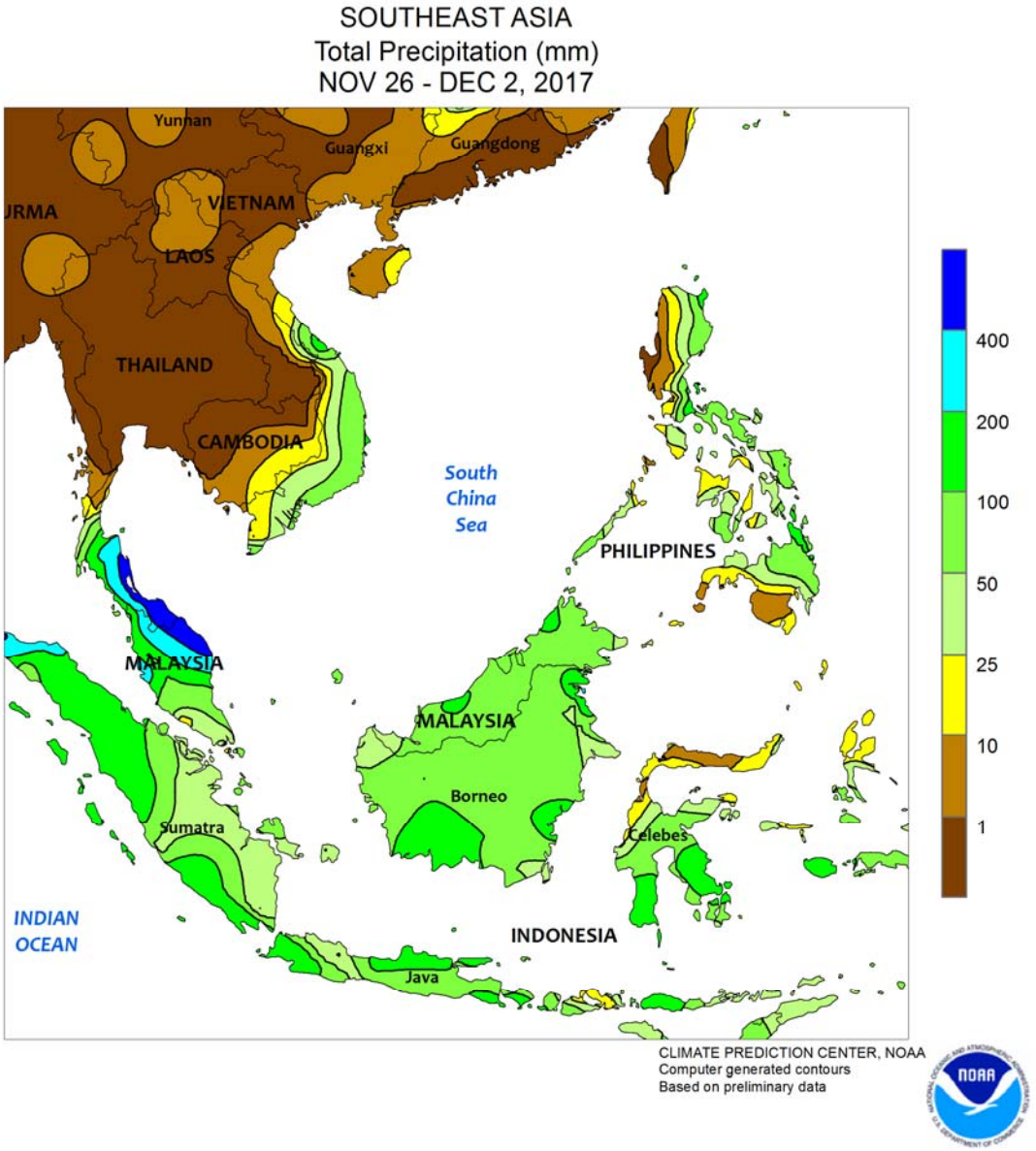


NORTHWESTERN AFRICA

Much-needed rain arrived in drought-afflicted Morocco and western Algeria, while wet weather maintained favorable moisture supplies in eastern growing areas. The first significant rainfall of the season arrived in Morocco (10-60 mm) and western Algeria (15-60 mm), providing soil moisture for winter wheat and barley planting and establishment. However, the drought and its impacts will not be completely alleviated with one rain event; season-to-date rainfall (since September 1) remained below 50 percent of normal in the affected areas, and additional moisture will be needed to ensure proper winter grain establishment. To further illustrate the severity of this autumn's drought, the current season-to-date average rainfall in northern Morocco's primary growing areas remained the second lowest over the past 30 years. Nevertheless, it is still early enough in the season for crops to be sown and yields to recover, despite the drought's severity. Meanwhile, moderate to heavy rain (20-90 mm) returned to central and eastern portions of the region, maintaining good to excellent winter crop prospects in eastern Algeria and northern Tunisia.

For additional information contact: mbrusberg@oce.usda.gov



SOUTHEAST ASIA

A tropical cyclone south of Java, Indonesia, spawned heavier-than-usual showers across the island. Areas to the south received over 150 mm of rain that resulted in flooding and reported landslides. Damage occurred outside the main rice areas, though. The remainder of Java averaged between 50 and 100 mm of rain which benefited rice. To the north, seasonally heavy showers (25-100 mm) in oil palm areas of Indonesia and most of Malaysia kept the crop well watered. However, in far northern portions of the Malay Peninsula and into adjoining parts of the Thai Peninsula, torrential rainfall (over 250 mm) caused severe flooding and localized damage to oil palm fruit. Meanwhile in the Philippines and southern Vietnam, seasonable showers (25-100 mm) maintained favorable soil moisture and water supplies for rice and other crops.

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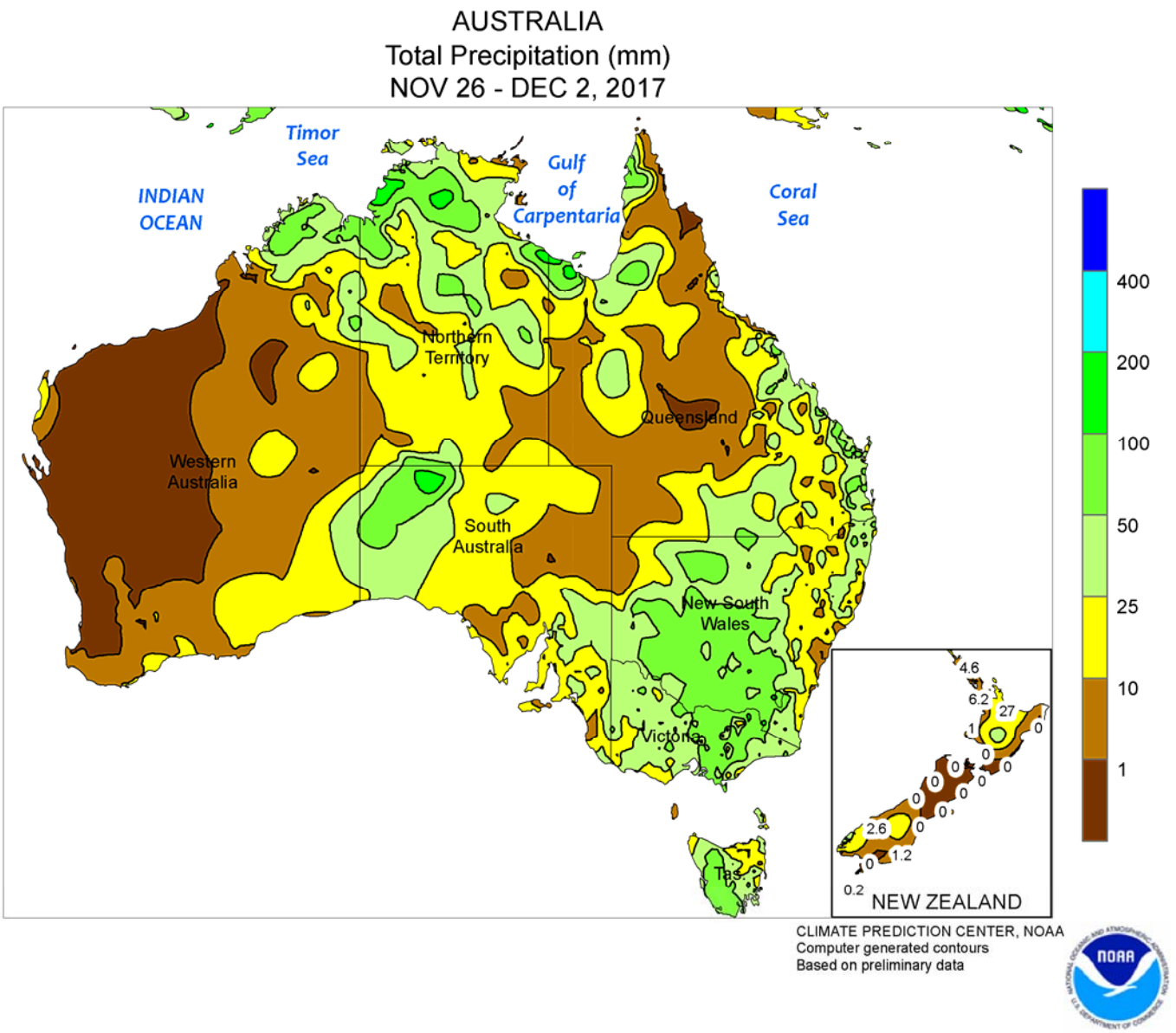

AUSTRALIA

Widespread, soaking rains (generally 20 mm or more) enveloped southern and eastern Australia, disrupting wheat, barley, and canola harvesting but further increasing moisture supplies for vegetative summer crops. The heaviest rain (50-100 mm or more) fell across southern New South Wales and eastern Victoria, causing local flooding and likely reducing the quality of unharvested winter crops. Crop quality reductions were possible elsewhere in southern and eastern Australia, albeit to a lesser extent because of somewhat lighter rainfall. Despite the negative impacts on mature winter grains and oilseeds, the rain was overall beneficial for vegetative summer crops. Indeed, the rain maintained good to excellent early-season yield prospects for cotton, sorghum, and other summer crops in southern Queensland and northern New South Wales. Elsewhere in the wheat belt, mostly dry weather in Western Australia favored winter crop harvesting. Temperatures in Western Australia were generally seasonable but averaged 3 to 4°C above normal across a large portion of southeastern Australia.

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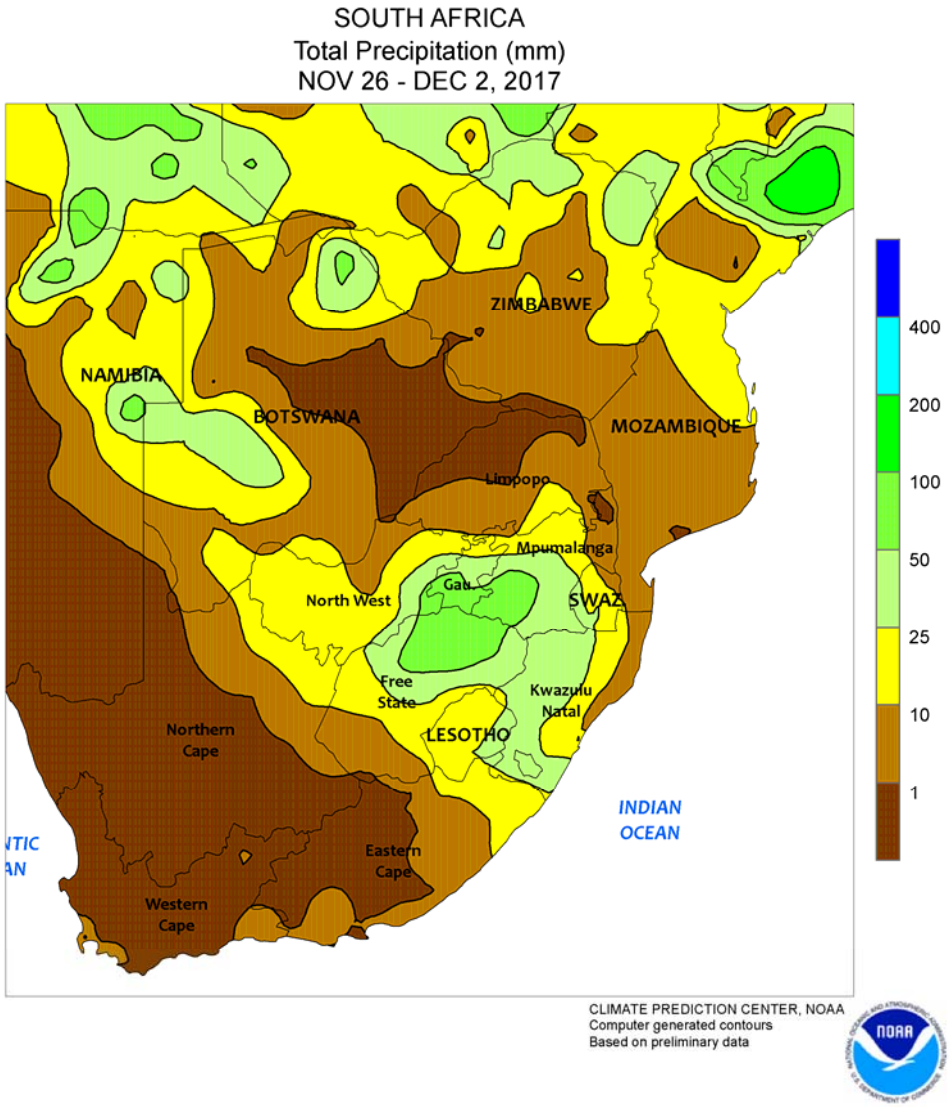

SOUTH AFRICA

Mild, showery weather maintained favorable conditions for corn in key commercial production areas. Frequent showers resulted in weekly rainfall accumulations totaling more than 25 mm over central and eastern portions of the corn belt (central Free State eastward through Mpumalanga), with amounts greater than 50 mm recorded in the vicinity of southern Gauteng. Most other areas received at least 10 mm, exceptions being outlying production areas in North West and Limpopo. Weekly average temperatures were near to slightly below normal, with daytime highs reaching the upper 20s and lower 30s (degrees C) in the higher producing agricultural districts. Following several weeks of beneficial rainfall, drier conditions (amounts totaling below 25 mm overall, with accumulations below 10 mm in some locations) developed over sugarcane areas of KwaZulu-Natal and eastern Mpumalanga, where daytime highs reached the lower and middle 30s. Meanwhile, dryness and summer warmth dominated the Cape Provinces, spurring rapid development of irrigated summer row crops, including corn and cotton in the Orange River Valley, as well as tree and vine crops in Western Cape.

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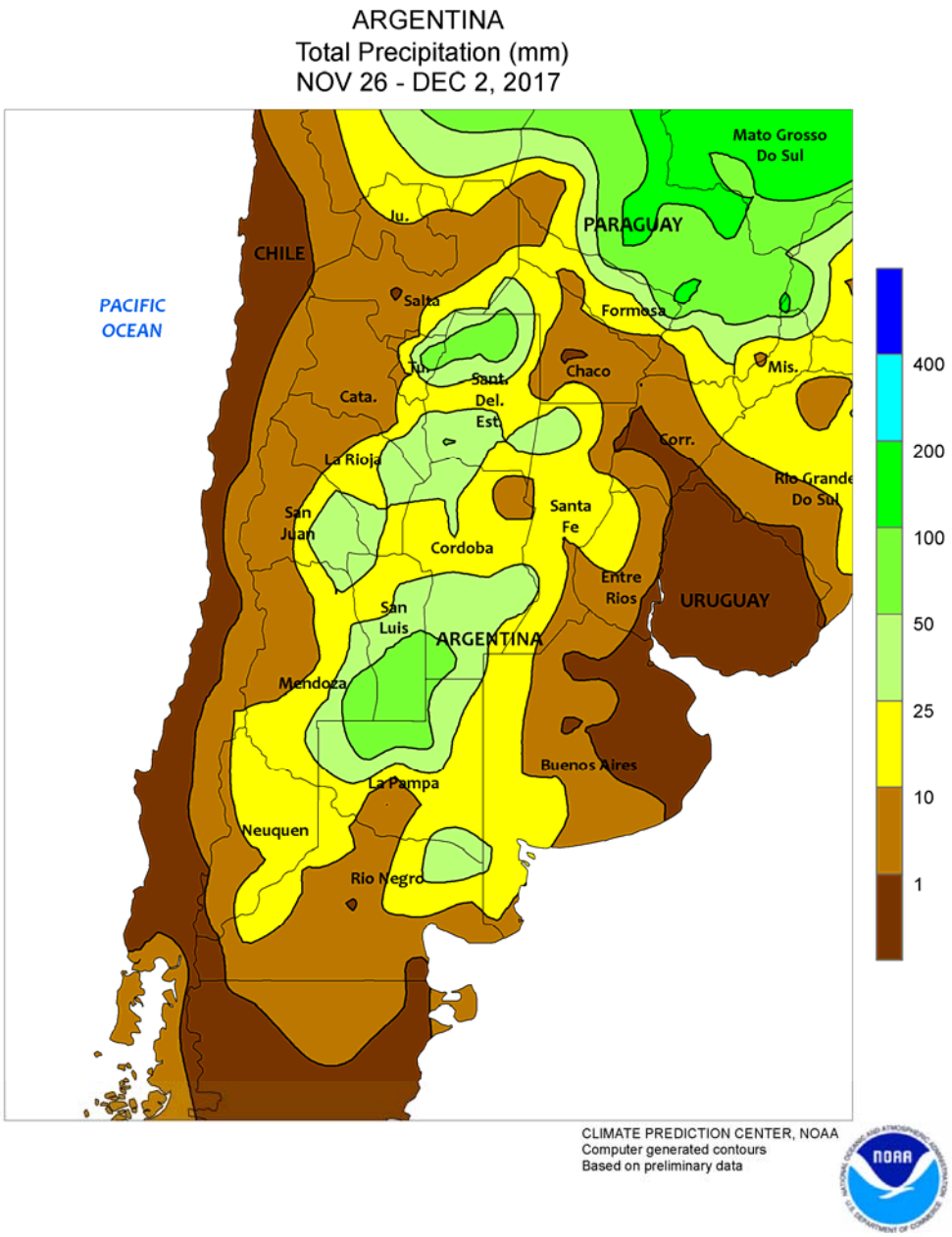

ARGENTINA

Late-week showers provided timely moisture for emerging summer grains and oilseeds in recently dry western farming areas. Several days of light rain resulted in accumulations of 10 to 50 mm in western Buenos Aires, La Pampa, and southern Cordoba, with similar amounts extending northward toward Salta. For most areas, it was the first significant moisture since early November; in addition, the rain helped to lower temperatures to more seasonable levels after readings hit the upper 30s (degrees C) to begin the week. In contrast, dry weather dominated eastern farming areas; virtually no rain fell in the lower Parana River Valley (notably northern Buenos Aires, Entre Rios, and eastern sections of Santa Fe), where moisture is now needed in spite of early-season wetness. Dry weather also dominated most of Argentina's cotton belt (notably Chaco and environs), though some showers (5-25 mm, locally higher) developed in eastern Formosa. Weekly temperatures averaged near to above normal throughout the region, with the highest occurrence of summer warmth (daytime highs reaching the middle 30s degrees C) occurring in the north. According to the government of Argentina, sunflowers were 96 percent planted as of November 30, 4 points ahead of last year's pace. Corn was 52 percent planted, equal to last year's pace, and soybeans were 48 percent planted, 2 points behind last year's pace. Additionally, wheat was 34 percent harvested versus 26 percent last year.

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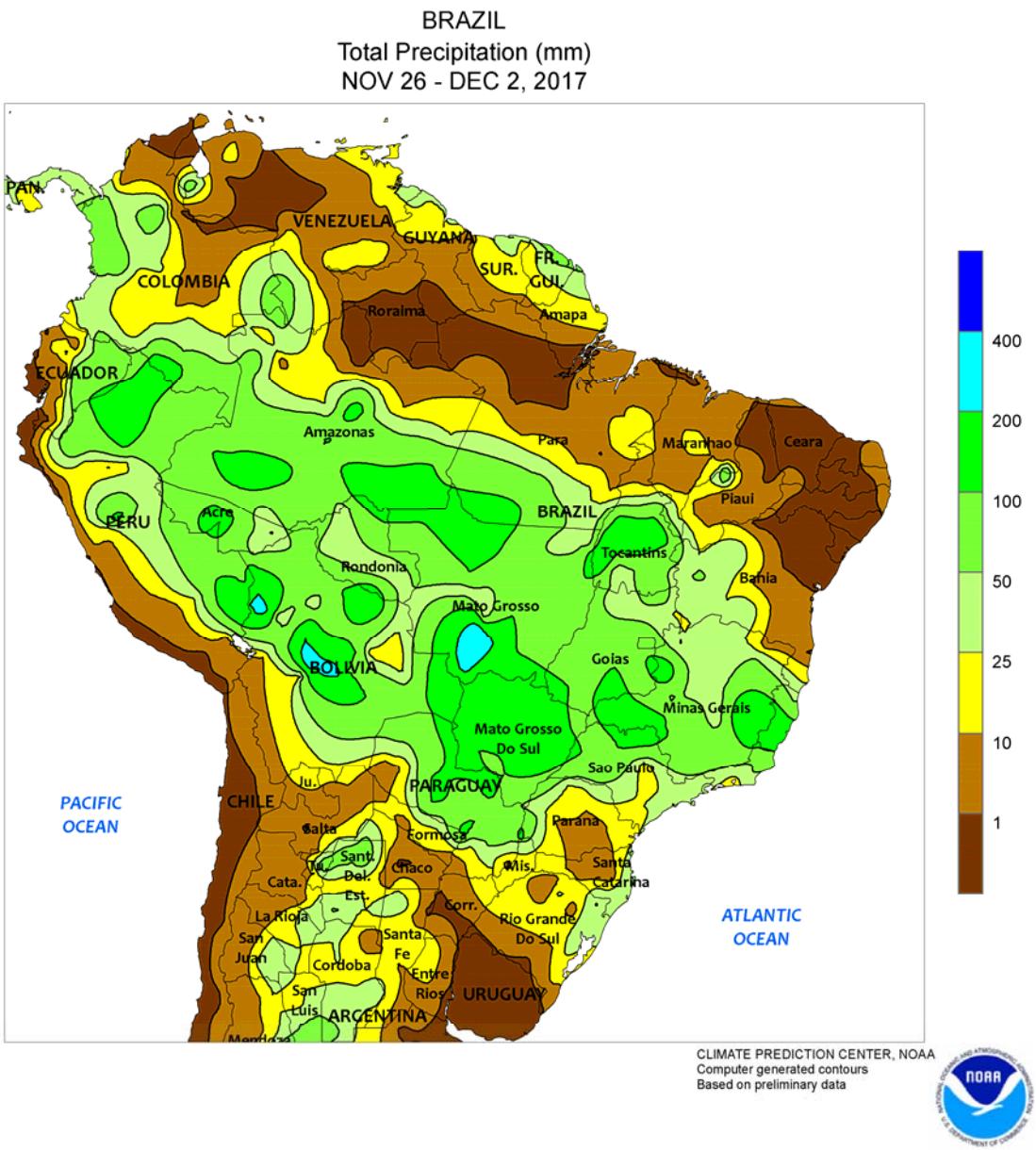

BRAZIL

Widespread, locally heavy rain maintained overall favorable conditions for crops in important production areas of central and southern Brazil. Moderate to heavy rainfall (25-100 mm, locally higher) covered a large region extending from Rio Grande do Sul northward through Mato Grosso and western Bahia. Summer warmth (daytime highs reaching the lower and middle 30s degrees C) fostered rapid rates of development of vegetative to reproductive crops growing with overall sufficient levels of moisture. According to the government of Mato Grosso, soybean planting was virtually complete at 99 percent as of December 1. According to Parana's government, soybeans and first-crop corn were just under 20 percent in reproductive and filling stages of development as of November 27. In Rio Grande do Sul, where crops are typically planted later following the wheat harvest, soybeans were approximately 70 percent planted as of November 30, with corn planting virtually complete. Meanwhile, moisture was also improved for sugarcane, coffee, and other crops in Sao Paulo and Minas Gerais. Elsewhere, rainfall continued to trend below normal in outlying soybean and cotton areas of the northeastern interior (Maranhao and Piaui), and seasonal dryness continued along the northeastern coast.

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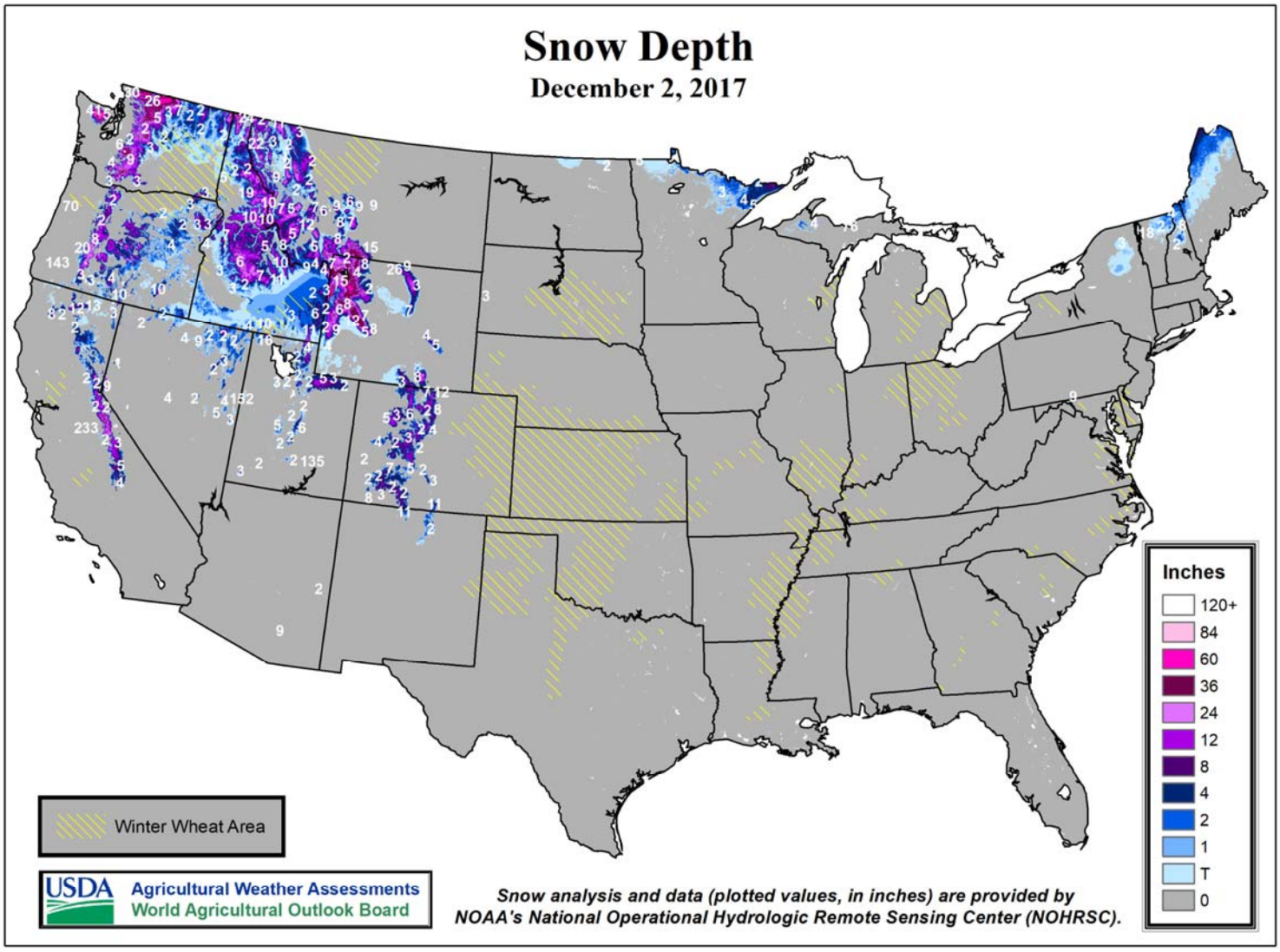

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Correspondence to the meteorologists should be directed to:
***Weekly Weather and Crop Bulletin*, NOAA/USDA, Joint Agricultural Weather Facility, USDA South Building, Room 4443B, Washington, DC 20250.**
Internet URL: **http://www.usda.gov/oce/weather**
E-mail address: ***brippey@oce.usda.gov***

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