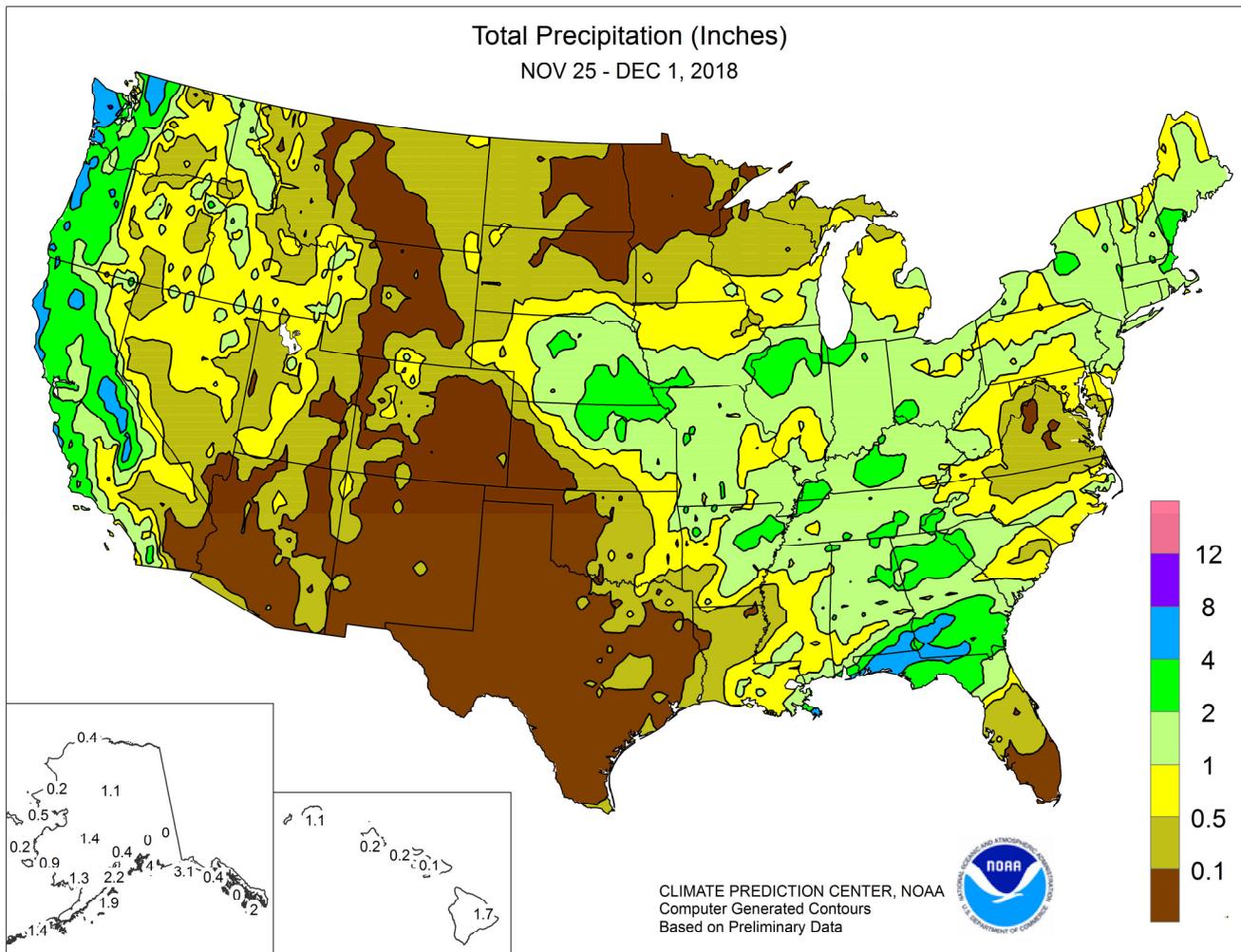


WEEKLY WEATHER AND CROP BULLETIN

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

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



HIGHLIGHTS

November 25 – December 1, 2018

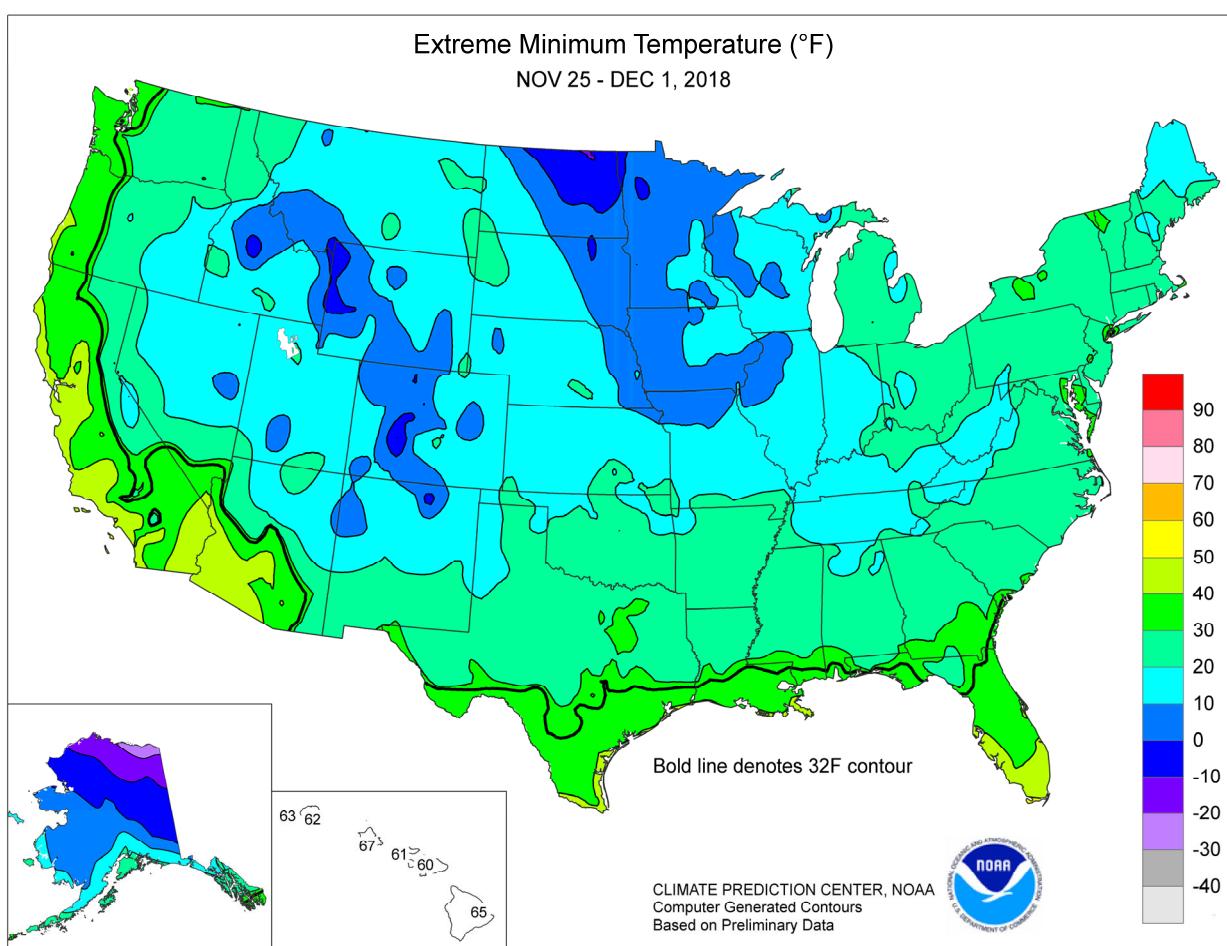
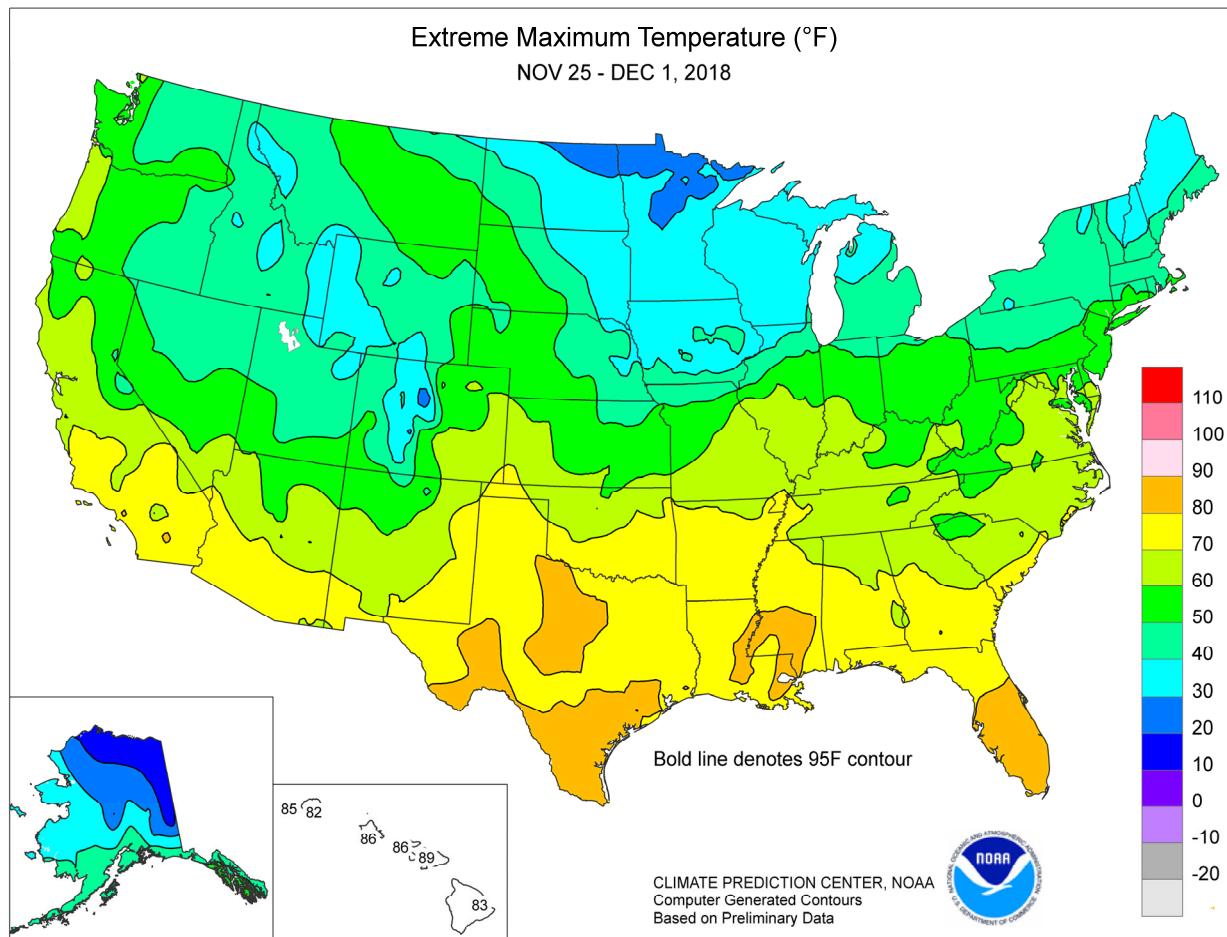
Highlights provided by USDA/WAOB

For the second week in a row, significant precipitation fell from the **Pacific Coast to the Cascades and Sierra Nevada**. The stormy weather boosted high-elevation snowpack and extinguished any remaining fire activity, but led to debris flows in some of California's recently burned areas. Widespread precipitation also spread inland across the **Great Basin** and the **Intermountain West**, but mostly dry weather prevailed across **southern sections of the Rockies and High Plains**. Farther east, however, an early-season winter storm curtailed fieldwork, stressed

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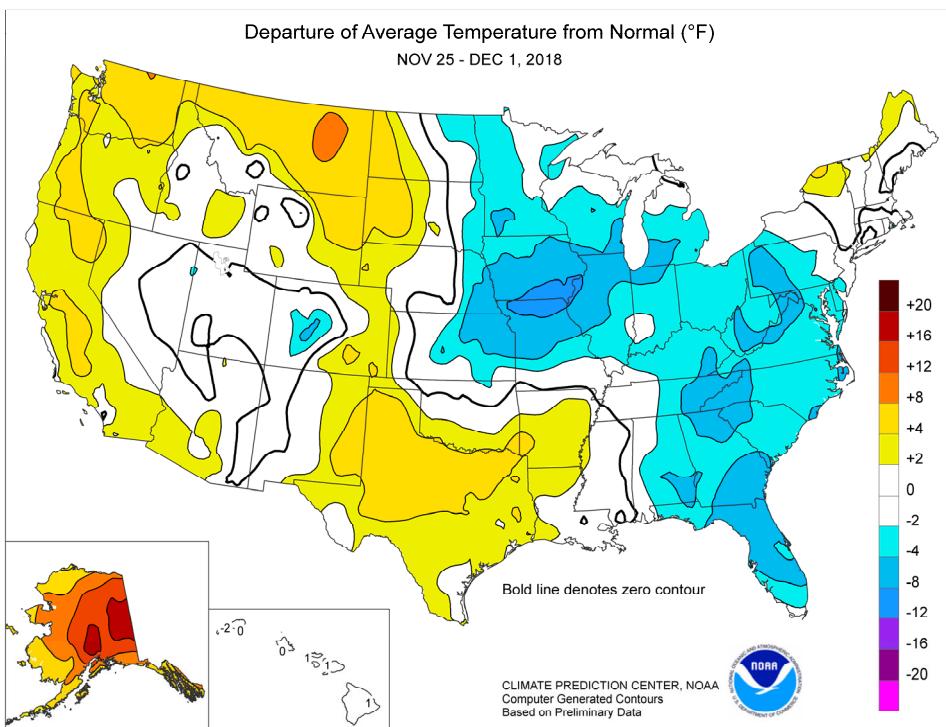
(Continued on page 3)



(Continued from front cover)

livestock, and hampered post-Thanksgiving travel from the **central Plains** into the **lower Great Lakes** region and parts of the **Northeast**. Meanwhile, rain soaked portions of the **Southeast**, further delaying late-autumn fieldwork. Weekly temperatures averaged more than 5°F below normal across a broad area of the **Midwest**, as well as parts of the **middle and southern Atlantic States**. In contrast, readings averaged at least 5°F above normal across the **northern High Plains** and portions of the **southern Plains**. Mild weather also prevailed in the **Pacific Coast States**. Late in the week, a new storm system delivered another round of snow across parts of the **northern and central Plains** and **upper Midwest**, while showers and locally severe thunderstorms affected the **lower Midwest** and much of the **East**.

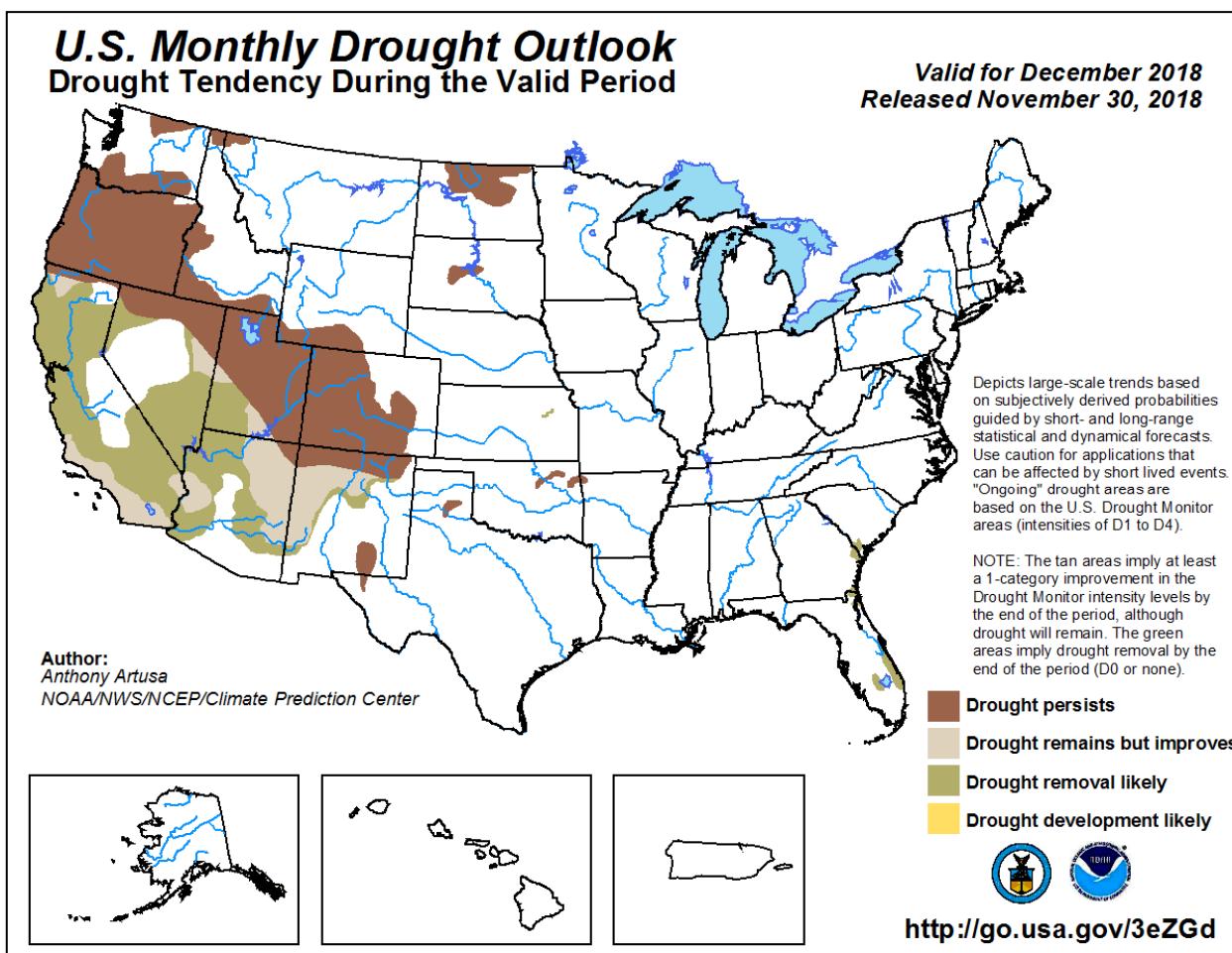
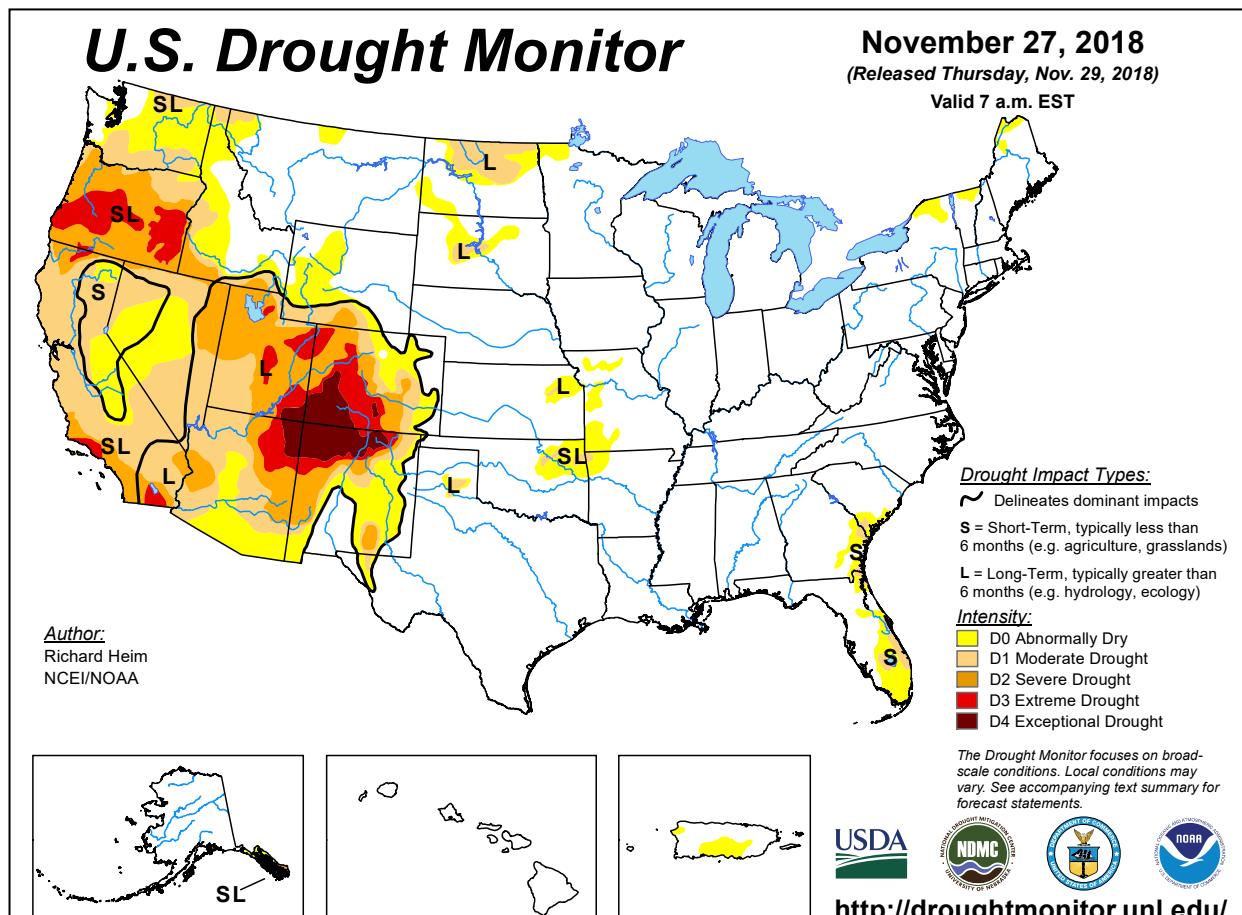
In **Butte County, CA**, the Camp Fire was fully contained in late November after scorching more than 153,000 acres of vegetation, destroying nearly 14,000 homes, and resulting in at least 85 fatalities. Farther east, a band of heavy, wind-driven snow occurred early in the week from the **central Plains** into **northern New England**. November 25 featured a daily-record snowfall of 5.8 inches in **Kansas City, MO**, accompanied by a peak wind gust of 55 mph. In **northern Illinois**, November 25-26 snowfall totaled 11.7 inches in **Rockford** and 8.4 inches in **Chicago**, accompanied by wind gusts of 46 and 51 mph, respectively. In fact, **Rockford's** measurable snow all fell on the 25th, which became that city's snowiest November day on record (previously, 6.6 inches on November 27, 1995). Elsewhere on the 25th, wind gusts were clocked to 60 mph in **Dalhart, TX**; 58 mph in **Russell, KS**; and 55 mph in **Guymon, OK**. On November 26 in **Michigan**, snowfall totaled 6.6 inches in **Lansing** and 4.2 inches in **Flint**—records for the date in both cities. Similarly, **Burlington, VT**, received 8.2 inches on November 27-28, aided by a daily-record total of 6.3 inches on the former date. Meanwhile, heavy precipitation overspread the **Pacific Coast**. In **western Washington**, record-setting rainfall amounts for November 26 included 4.04 inches in **Quillayute** and 2.52 inches in **Hoquiam**. **Seattle, WA**, collected consecutive daily-record rainfall totals (1.42 and 1.84 inches, respectively) on November 26-27. By mid-week, precipitation returned across **California**, where record-setting rainfall totals for November 28 reached 1.08 inches in **Paso Robles** and 1.16 inches in **Merced**. **Paso Robles** also netted a daily-record total (0.87 inch) the following day, November 29. Other record-setting totals in **California** on the 29th included 2.85 inches on **Palomar Mountain**; 2.52 inches in **Redding**; and 2.32 inches in **Red Bluff**. Farther inland, **Laketown, UT**, reported 13.5 inches of snow in a 48-hour period from November 28-30. At week's end, heavy precipitation erupted across parts of the **central Plains**, **Midwest**, and **Southeast**. **Illinois'** third-largest tornado outbreak occurred on December 1, when—based on preliminary reports—26 tornadoes were observed. Larger **Illinois** outbreaks occurred with 39 tornadoes on April 19, 1996, and 36 tornadoes on April 2, 2006, but the state's largest December outbreak had been 21 tornadoes on December 18-19, 1957. **Springfield, IL**, with a 75 mph wind, reported its highest December gust and highest gust at any time of year since November 29, 1975 (76 mph). Farther west, daily-record snowfall amounts for December 1 totaled 6.2 inches



in **Rapid City, SD**, and 4.4 inches in **Concordia, KS**. On the same date, daily precipitation records included 4.28 inches in **Pensacola, FL**; 1.84 inches in **Cincinnati, OH**; and 1.51 inches in **Grand Island, NE**.

Early-week warmth was mostly limited to **Florida's peninsula**, where **Melbourne** posted a daily-record high of 87°F on November 26. Later, a surge of cool air into **Florida** resulted in a daily-record low of 38°F on November 28 in **Vero Beach**. Farther north, record-setting lows for November 28 dipped to 16°F in **Blacksburg, VA**, and 18°F in **Cape Girardeau, MO**. Meanwhile, mild conditions accompanied heavy rain into **western Washington**, where **Seattle** and **Olympia** logged daily-record highs of 58°F on November 27. During the second half of the week, warmth developed and expanded across the **South**. In **Texas**, record-setting highs for November 29 reached 82°F in **Midland** and 81°F in **San Angelo**. By December 1, **Melbourne, FL**, tallied another daily-record high (86°F), while highs climbed to 81°F (and achieved daily records) in **Mississippi** locations such as **Jackson** and **Vicksburg**.

Mild, wet weather covered parts of **Alaska**, with weekly temperatures averaging 10 to 20°F above normal in several central and eastern locations. Early-week warmth was most prominent in **southeastern Alaska**, where daily-record highs included 54°F (on November 25) in **Sitka** and 50°F (on November 26) in **Yakutat**. Later, a major earthquake struck **south-central Alaska**, near **Anchorage**, on November 30. At week's end, a winter storm resulted in rising temperatures and heavy precipitation (rain, freezing rain, and snow) across parts of the **Alaskan mainland**. On November 30 – December 1, **McGrath** received precipitation totaling 1.18 inches and 6.7 inches of snow. In **Bettles**, snowfall on December 1 totaled 11.1 inches. Farther south, November in **Hawaii** ended on a warm, mostly dry note. In fact, **Kahului, Maui**, notched a daily-record high of 89°F on November 30. At the state's major airport observation sites, November rainfall ranged from 0.34 inch (14 percent of normal) in **Honolulu, Oahu**, to 11.45 inches (74 percent) in **Hilo**, on the **Big Island**. In **Lihue, Kauai**, where monthly rainfall totaled 3.73 inches (84 percent of normal), rainfall totaled exactly an inch from November 28-30.



National Weather Data for Selected Cities

Weather Data for the Week Ending December 1, 2018

Data Provided by Climate Prediction Center

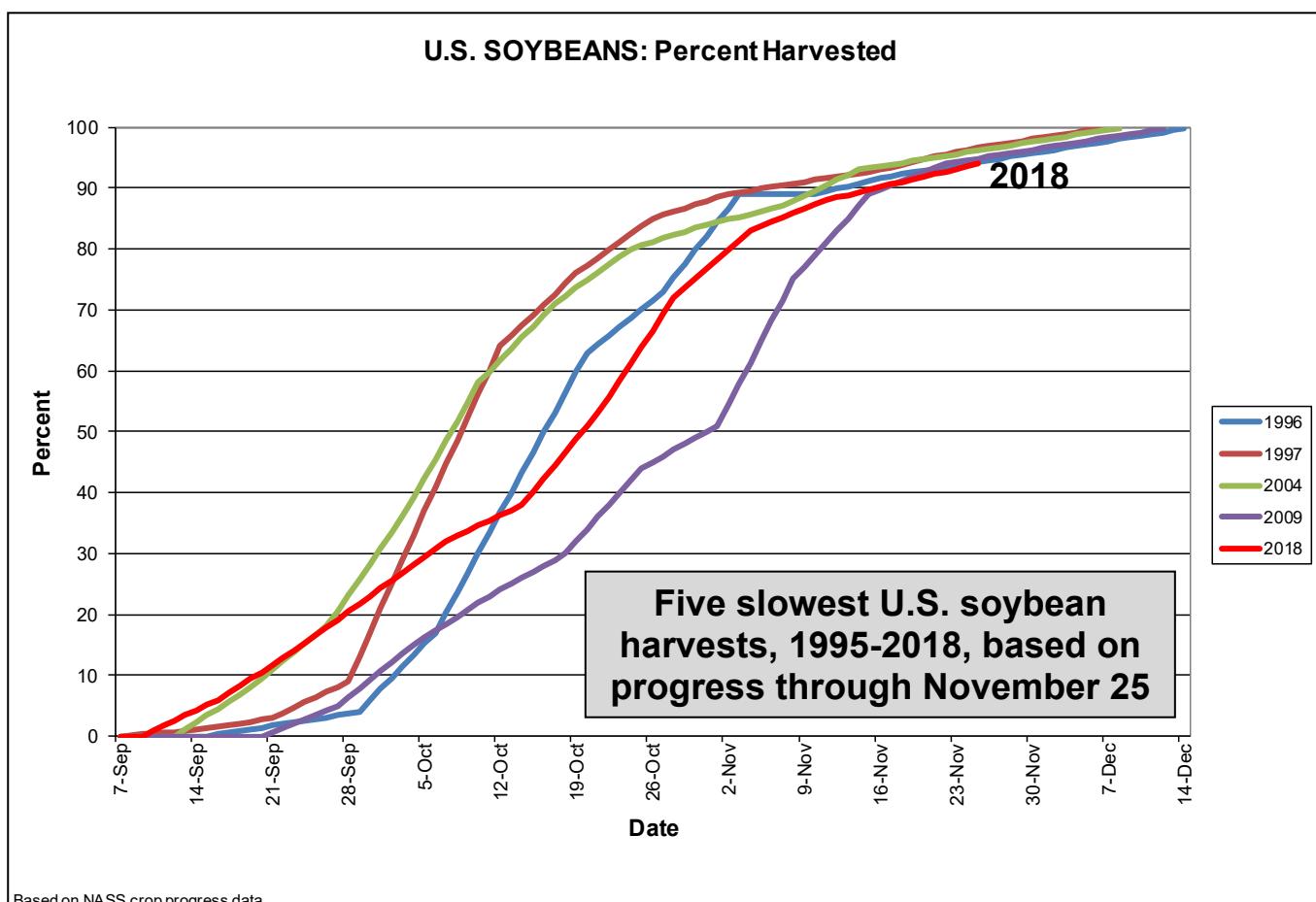
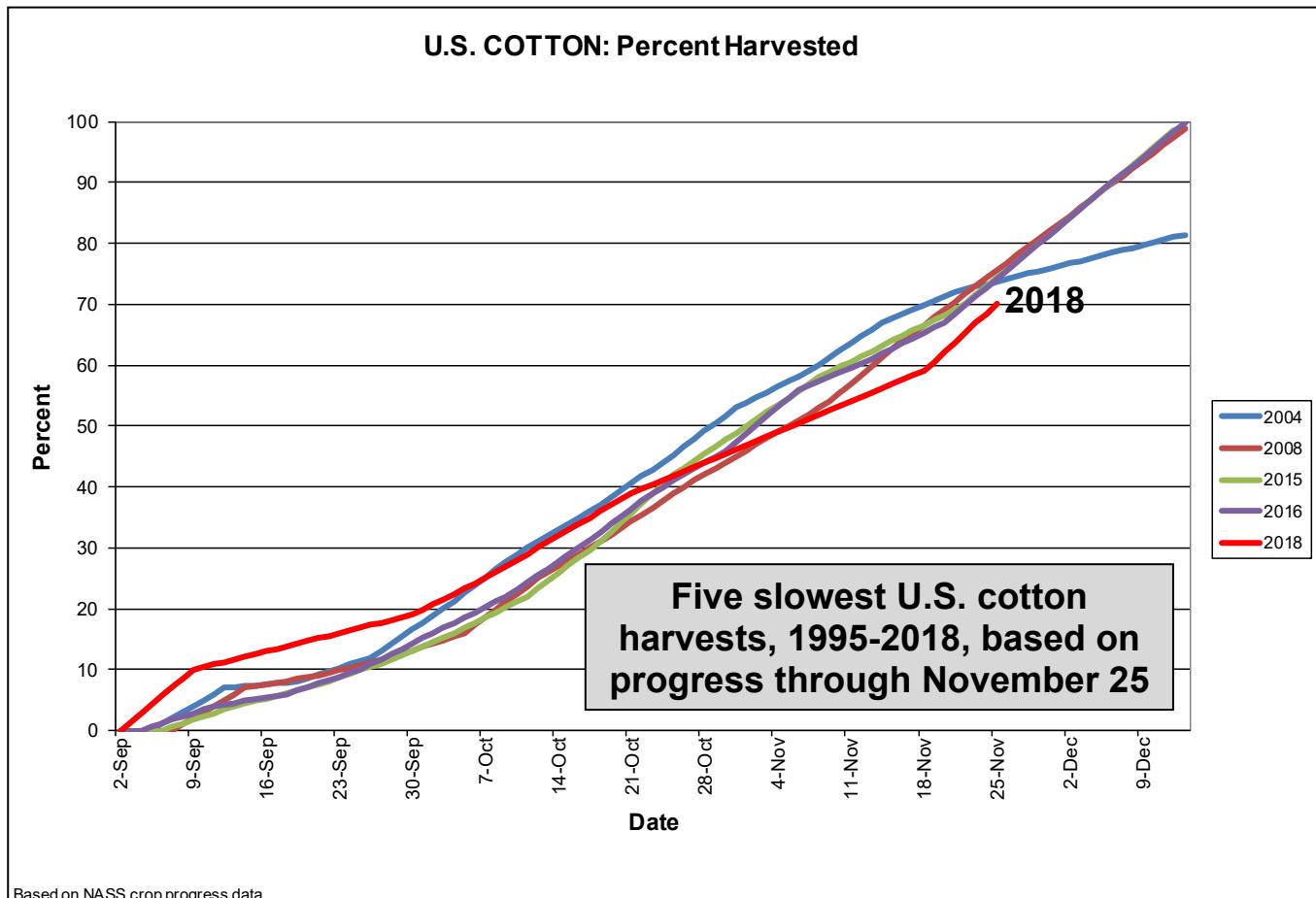
STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY PERCENT	NUMBER OF DAYS						
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN. SINCE DEC 1	PCT. NORMAL SINCE DEC 1	TOTAL, IN. SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE 32 AND BELOW	0.1 INCH OR MORE	.50 INCH OR MORE		
AL	BIRMINGHAM	59	39	70	23	49	-1	1.52	0.42	1.25	1.25	833	53.01	107	91	53	0	3	3	1
	HUNTSVILLE	58	38	68	21	48	0	1.48	0.16	0.90	0.52	274	50.43	97	84	67	0	3	3	2
	MOBILE	68	47	76	32	57	1	0.83	-0.48	0.69	0.69	383	55.57	90	91	63	0	2	3	1
	MONTGOMERY	64	40	77	26	52	-1	1.33	0.10	1.30	1.30	722	46.62	93	89	54	0	3	2	1
	ANCHORAGE	37	30	45	25	34	15	0.39	0.17	0.17	0.01	33	16.10	107	89	84	0	5	5	0
	BARROW	2	-6	11	-16	-2	3	0.42	0.39	0.18	0.04	400	9.46	235	90	79	0	7	5	0
	FAIRBANKS	20	3	29	-5	12	14	0.00	-0.14	0.00	0.00	0	12.65	132	89	85	0	7	0	0
AK	JUNEAU	42	34	48	20	38	7	0.35	-0.81	0.25	0.00	0	50.17	94	98	93	0	2	3	0
	KODIAK	43	31	47	22	37	5	1.85	0.33	0.84	0.05	23	67.20	99	92	81	0	4	4	2
	NOME	26	16	33	6	21	7	0.52	0.25	0.17	0.17	425	14.97	96	92	81	0	7	6	0
	FLAGSTAFF	44	22	57	11	33	0	0.81	0.40	0.46	0.05	83	20.66	98	82	39	0	7	3	0
	PHOENIX	71	50	76	48	60	2	0.35	0.18	0.32	0.00	0	9.10	123	63	38	0	0	2	0
	PREScott	56	29	62	23	42	1	0.38	0.10	0.32	0.00	0	12.98	72	78	31	0	5	2	0
	TUCSON	72	44	78	41	58	3	0.08	-0.06	0.08	0.00	0	11.95	107	60	35	0	0	1	0
AR	FORT SMITH	62	36	75	23	49	2	0.34	-0.75	0.31	0.03	20	48.68	120	82	45	0	3	2	0
	LITTLE ROCK	62	41	72	25	51	3	1.87	0.52	1.75	0.12	63	61.22	132	89	49	0	3	2	1
	BAKERSFIELD	64	50	70	46	57	6	0.53	0.39	0.28	0.19	950	4.76	83	85	73	0	0	4	0
	FRESNO	61	49	67	41	55	6	1.22	0.97	0.83	0.05	125	8.14	82	93	83	0	0	4	1
	LOS ANGELES	70	55	77	51	62	2	1.83	1.53	1.54	0.00	0	6.65	58	81	54	0	0	2	1
	REDDING	59	44	71	38	51	3	4.07	3.13	2.61	0.13	100	21.21	73	92	78	0	0	4	2
	SACRAMENTO	61	45	66	40	53	3	1.60	1.08	1.22	0.31	443	16.36	105	100	66	0	0	3	1
CA	SAN DIEGO	70	57	76	53	64	4	0.81	0.57	0.53	0.00	0	4.63	49	78	53	0	0	2	1
	SAN FRANCISCO	61	51	64	48	56	4	1.60	1.00	0.98	0.09	113	14.17	82	85	73	0	0	4	1
	STOCKTON	62	48	66	43	55	6	1.22	0.81	0.87	0.20	333	11.99	99	90	81	0	0	4	1
	ALAMOSA	45	8	53	3	26	2	0.04	-0.04	0.04	0.00	0	5.44	78	78	42	0	7	1	0
	CO SPRINGS	49	25	61	14	37	5	0.01	-0.05	0.01	0.00	0	15.33	90	70	27	0	6	1	0
	DENVER INTL	48	24	58	17	36	3	0.05	-0.04	0.05	0.00	0	8.80	66	79	36	0	7	1	0
	GRAND JUNCTION	43	25	49	17	34	0	0.17	0.06	0.13	0.04	200	7.30	86	83	57	0	6	2	0
CO	PUEBLO	57	21	69	11	39	5	0.00	-0.08	0.00	0.00	0	7.60	63	74	36	0	7	0	0
	BRIDGEPORT	47	37	56	30	42	0	1.28	0.47	0.98	0.03	27	55.44	136	79	59	0	2	5	1
	HARTFORD	44	30	51	23	37	-1	1.27	0.38	0.90	0.03	25	58.33	137	93	67	0	4	4	1
	WASHINGTON	47	36	60	31	42	-3	0.68	-0.01	0.45	0.22	220	60.69	167	74	52	0	2	3	0
	WILMINGTON	47	34	59	29	41	-1	0.99	0.22	0.78	0.21	191	55.39	140	83	57	0	3	2	1
	DAYTONA BEACH	70	50	83	38	60	-4	0.58	-0.04	0.51	0.07	78	58.02	124	95	53	0	0	2	1
	JACKSONVILLE	65	44	74	32	54	-5	1.22	0.67	0.69	0.53	663	55.41	111	93	54	0	1	2	2
FL	KEY WEST	79	71	84	61	75	0	0.00	-0.48	0.00	0.00	0	35.59	97	77	61	0	0	0	0
	MIAMI	77	62	85	50	69	-4	0.00	-0.61	0.00	0.00	0	59.87	106	86	53	0	0	0	0
	ORLANDO	73	52	85	39	62	-4	0.14	-0.41	0.14	0.00	0	45.06	98	78	51	0	0	1	0
	PENSACOLA	67	48	77	33	57	-1	4.80	3.82	4.28	4.28	3292	77.75	129	85	63	0	0	3	1
	TALLAHASSEE	65	42	75	29	54	-4	2.77	1.88	1.87	1.87	1558	66.00	111	95	66	0	1	4	2
	TAMPA	72	56	83	42	64	-3	0.08	-0.39	0.08	0.00	0	53.65	126	80	51	0	0	1	0
	WEST PALM BEACH	76	56	84	41	66	-5	0.00	-1.16	0.00	0.00	0	52.54	90	87	54	0	0	0	0
GA	ATHENS	53	37	65	27	45	-5	2.24	1.41	2.17	2.17	1808	60.54	137	81	58	0	3	4	1
	ATLANTA	57	38	71	27	48	-2	1.80	0.83	1.62	1.62	1246	59.82	129	77	59	0	3	3	1
	AUGUSTA	61	37	67	26	49	-2	0.57	0.01	0.56	0.56	700	51.46	124	89	55	0	2	2	1
	COLUMBUS	61	40	73	29	51	-3	0.82	-0.20	0.79	0.79	527	58.74	133	88	46	0	3	2	1
	MACON	61	38	73	26	49	-3	0.63	-0.17	0.62	0.62	517	44.92	109	93	47	0	3	2	1
	SAVANNAH	62	39	73	31	51	-5	0.62	0.12	0.58	0.58	829	40.06	86	90	54	0	2	2	1
	HILO	81	67	83	65	74	1	1.74	-1.80	1.31	0.02	4	163.07	140	92	78	0	0	5	1
ID	HONOLULU	83	70	86	67	77	0	0.23	-0.30	0.09	0.08	100	16.38	106	84	73	0	0	3	0
	KAHULUI	87	65	89	60	76	1	0.15	-0.40	0.12	0.03	38	21.18	134	86	75	0	0	2	0
	LIHUE	81	69	82	62	75	0	1.10	0.03	0.92	0.01	7	47.41	136	80	72	0	0	5	1
	BOISE	44	31	48	26	37	2	0.76	0.43	0.30	0.30	600	9.47	87	85	75	0	4	5	0
	LEWISTON	47	35	55	31	41	4	0.47	0.21	0.14	0.01	25	12.10	103	85	73	0	3	6	0
	POCATELLO	40	26	44	14	33	3	0.36	0.11	0.17	0.00	0	8.19	71	92	77	0	6	4	0
	CHICAGO/O'HARE	35	26	42	17	31	-4	1.80	1.13	1.13	1.13	1256	46.59	137	88	76	0	5	4	2
IL	MOLINE	33	21	41	5	27	-7	1.96	1.37	1.02	1.02	94	44.63	124	85	74	0	6	2	2
	PEORIA	38	24	59	10	31	-4	1.70	1.00	0.84	0.83	830	42.67	127	89	75	0	6	3	2
	ROCKFORD	33	23	39	13	28	-4	1.66	1.07	0.91	0.73	913	52.97	153	85	75	0	6	4	2
	SPRINGFIELD	41	24	62	11	33	-5	1.70	1.04	1.32	1.32	1467	42.51	128	93	71	0	6	3	1
	EVANSVILLE	48	32	62	15	40	-2	1.66	0.65	1.30	1.30	929	55.62	136	90	72	0	4	4	1
	FORT WAYNE	40	29	52	21	34	-2	1.52	0.83	0.64	0.64	640	41.96	124	94	80	0	4	5	2
	INDIANAPOLIS	44	29	59	15	37	-2	1.15	0.31	1.00	1.00	833	44.91	118	92	75	0	4	4	1
IA	SOUTH BEND	36	26	47	19															

Weather Data for the Week Ending December 1, 2018

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY PERCENT	NUMBER OF DAYS						
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL IN. SINCE DEC 1	PCT. NORMAL SINCE DEC 1	TOTAL IN. SINCE JAN 01	PCT. NORMAL SINCE JAN 01	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	0.1 INCH OR MORE	.50 INCH OR MORE	
KY	WICHITA	49	28	61	23	39	-1	0.17	-0.20	0.12	0.02	40	29.85	103	93	69	0	5	3	0
	JACKSON	47	32	60	18	40	-4	1.36	0.31	0.95	0.28	187	61.69	136	94	65	0	4	6	1
	LEXINGTON	48	34	59	20	41	-1	1.53	0.64	1.10	1.10	846	72.08	172	83	75	0	4	6	1
	LOUISVILLE	50	35	63	23	42	-2	1.85	0.92	1.62	1.62	1246	67.31	164	84	62	0	4	4	1
	PADUCAH	52	35	67	18	43	0	2.13	0.97	1.23	1.23	724	59.74	133	84	64	0	3	4	2
	LA BATON ROUGE	69	48	80	34	59	3	0.75	-0.41	0.45	0.25	147	57.60	99	93	47	0	0	4	0
LA	LAKE CHARLES	70	51	79	37	61	4	0.92	-0.17	0.79	0.02	13	54.49	103	94	55	0	0	3	1
	NEW ORLEANS	70	53	83	38	61	2	0.87	-0.43	0.49	0.18	95	58.77	99	88	69	0	0	3	0
	SHREVEPORT	67	45	75	28	56	3	0.11	-0.96	0.11	0.00	0	55.84	119	90	48	0	1	1	0
ME	CARIBOU	34	23	37	15	28	2	0.58	-0.14	0.30	0.00	0	38.17	111	89	72	0	6	4	0
	PORTLAND	42	31	47	24	36	1	2.47	1.43	1.72	0.00	0	48.86	117	94	71	0	4	4	1
	MD BALTIMORE	46	33	61	28	40	-2	0.60	-0.14	0.42	0.18	164	67.10	173	82	67	0	3	2	0
MA	BOSTON	46	37	49	33	42	0	2.15	1.26	0.96	0.00	0	52.04	134	82	63	0	0	3	2
	WORCESTER	39	31	44	26	35	-1	1.43	0.52	0.95	0.01	8	58.09	128	94	74	0	5	4	1
	MI ALPENA	35	27	40	22	31	0	0.06	-0.38	0.05	0.00	0	30.57	115	87	71	0	7	2	0
MI	GRAND RAPIDS	34	27	43	23	30	-4	0.74	-0.06	0.43	0.18	164	45.53	132	87	73	0	6	5	0
	HOUGHTON LAKE	32	26	38	22	29	-2	0.29	-0.16	0.22	0.22	367	30.13	113	88	76	0	7	3	0
	LANSING	34	25	42	21	29	-5	0.86	0.23	0.58	0.23	256	38.85	132	92	78	0	6	4	1
	MUSKEGON	34	28	44	25	31	-4	0.72	-0.01	0.32	0.32	320	42.99	142	80	70	0	6	5	0
	TRAVERSE CITY	35	30	41	28	33	0	0.58	-0.01	0.54	0.54	675	35.37	115	85	68	0	5	4	1
	MN DULUTH	26	16	32	6	21	-2	0.12	-0.29	0.12	0.00	0	29.38	98	84	76	0	7	1	0
MN	INT'L FALLS	22	16	28	7	19	1	0.34	0.10	0.29	0.00	0	24.76	106	93	82	0	7	2	0
	MINNEAPOLIS	29	20	34	13	25	-2	0.43	0.08	0.19	0.19	475	33.46	118	84	71	0	7	3	0
	ROCHESTER	27	18	32	8	22	-4	0.85	0.46	0.76	0.76	1520	41.87	138	93	82	0	7	2	1
	ST. CLOUD	27	17	33	7	22	-1	0.18	-0.06	0.09	0.05	167	29.31	111	91	70	0	7	3	0
MS	JACKSON	65	42	81	28	54	2	0.41	-0.83	0.27	0.08	44	70.05	138	93	50	0	3	3	0
	MERIDIAN	65	44	81	30	55	2	1.00	-0.24	0.79	0.79	439	62.09	116	87	60	0	2	4	1
	TUPELO	58	40	69	24	49	1	2.08	0.75	1.07	1.07	563	67.92	136	83	64	0	3	4	2
MO	COLUMBIA	43	26	61	16	35	-4	1.43	0.65	0.94	0.94	855	35.82	94	86	65	0	6	4	1
	KANSAS CITY	40	22	52	12	31	-7	1.81	1.31	0.96	0.96	1371	40.07	110	87	68	0	6	3	2
	SAINT LOUIS	47	29	67	18	38	-3	1.02	0.15	0.79	0.79	658	41.11	114	87	70	0	5	2	1
MT	SPRINGFIELD	51	29	64	19	40	-2	0.49	-0.57	0.49	0.00	0	40.70	97	80	65	0	4	1	0
	BILLINGS	44	28	53	23	36	6	0.04	-0.10	0.03	0.00	0	22.60	160	81	46	0	5	2	0
	BUTTE	34	11	48	-2	23	0	0.04	-0.07	0.03	0.00	0	14.08	115	87	56	0	7	2	0
NE	CUT BANK	44	23	50	7	33	7	0.05	-0.03	0.05	0.05	500	11.23	92	84	48	0	6	1	0
	GLASGOW	39	25	48	20	32	10	0.41	0.35	0.41	0.41	4100	13.17	121	90	77	0	7	1	0
	GREAT FALLS	44	27	51	17	36	8	0.18	0.07	0.18	0.18	900	16.60	117	83	45	0	6	1	0
	HAVRE	42	22	56	13	32	7	0.11	0.03	0.11	0.11	1100	14.75	135	89	76	0	6	1	0
	MISSOULA	33	23	36	18	28	0	0.12	-0.10	0.06	0.02	67	15.62	123	92	84	0	7	4	0
	GRAND ISLAND	38	26	49	17	32	1	2.26	1.99	1.54	1.54	3850	31.43	124	92	82	0	7	4	2
NV	LINCOLN	35	21	39	8	28	-5	1.72	1.42	1.25	1.25	3125	37.62	137	90	76	0	7	4	1
	NORFOLK	33	20	43	6	27	-3	1.46	1.19	1.25	1.25	3125	34.41	132	90	81	0	7	3	1
	NORTH PLATTE	39	23	53	13	31	1	0.98	0.87	0.60	0.60	3000	26.50	137	94	78	0	7	4	1
NH	OMAHA	34	22	41	9	28	-5	1.15	0.79	0.97	0.97	1940	36.64	125	83	71	0	6	4	1
	SCOTTSBLUFF	47	28	57	17	38	8	0.20	0.04	0.11	0.11	550	22.99	146	94	72	0	4	3	0
	VALENTINE	42	26	57	21	34	5	0.83	0.71	0.68	0.68	3400	34.22	178	92	75	0	7	2	1
NV	ELY	41	16	54	5	29	-1	0.42	0.33	0.15	0.04	400	7.49	79	81	60	0	7	4	0
	LAS VEGAS	62	45	66	41	53	2	0.22	0.16	0.22	0.00	0	3.22	79	48	31	0	0	1	0
	RENO	51	34	55	28	42	5	0.69	0.50	0.61	0.08	267	8.22	124	72	57	0	3	2	1
NH	CONCORD	38	28	41	21	33	0	1.06	0.29	0.59	0.00	0	50.36	145	93	78	0	5	3	1
	NEWARK	48	37	58	32	42	-1	1.68	0.77	1.13	0.08	62	56.37	132	80	57	0	1	4	1
	NM ALBUQUERQUE	52	31	60	25	42	2	0.00	-0.09	0.00	0.00	0	9.13	102	47	21	0	4	0	0
NY	ALBANY	41	33	45	28	37	2	1.21	0.51	0.44	0.19	190	42.72	120	85	67	0	2	5	0
	BINGHAMTON	35	29	41	26	32	-2	1.25	0.45	0.52	0.23	209	55.59	156	97	88	0	7	7	1
	BUFFALO	38	32	45	29	35	-1	1.04	0.10	0.52	0.12	92	38.38	104	93	79	0	5	4	1
NC	ROCHESTER	40	34	47	31	37	1	0.98	0.31	0.45	0.15	167	32.82	105	92	82	0	4	4	0
	SYRACUSE	36	31	42	30	34	-2	1.98	1.08	0.72	0.41	315	40.96	111	97	84	0	6	6	1
	ASHEVILLE	50	33	61	21	41	-3	0.73	-0.12	0.47	0.47	392	69.09	158	82	62	0	4	2	0
NC	CHARLOTTE	57	36	64	21	46	-3	0.81	0.10	0.69	0.69	690	52.84	131	92	48	0	3	4	1
	GREENSBORO	53	32	64	21	43	-3	0.19	-0.50	0.19	0.19	190	57.31	143	86	52	0	3	1	0
	HATTERAS	58	44	69	36	51	-4	1.34	0.34	1.01	1.01	721	83.20	156	82	57	0	0	3	1
NC	RALEIGH	56	36	68	25	46	-2	0.35	-0.32	0.32	0.32	356	54.39	136	83	58	0	3	3	0
	WILMINGTON	60	39	71	27	50	-4	0.52	-0.31	0.47	0.47	392	96.40	180	88	41	0	2	2	

Weather Data for the Week Ending December 1, 2018

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY PERCENT	NUMBER OF DAYS						
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL IN. SINCE DEC 1	PCT. NORMAL SINCE DEC 1	TOTAL IN. SINCE JAN 01	PCT. NORMAL SINCE JAN 01	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	0° INCH OR MORE	.50 INCH OR MORE	
OK	TOLEDO	38	30	49	25	34	-2	1.60	0.94	0.82	0.71	789	36.49	119	84	77	0	5	3	2
	YOUNGSTOWN	39	30	50	23	34	-3	0.88	0.11	0.54	0.18	164	52.61	150	89	78	0	5	6	1
	OKLAHOMA CITY	59	32	67	24	45	0	0.36	-0.08	0.36	0.00	0	41.70	123	87	43	0	4	1	0
OR	TULSA	59	30	69	21	45	0	0.48	-0.28	0.48	0.00	0	30.80	77	81	58	0	4	1	0
	ASTORIA	54	42	61	35	48	3	3.80	1.19	1.68	0.35	95	54.74	96	97	87	0	0	6	4
	BURNS	39	22	42	11	30	1	0.65	0.37	0.31	0.31	775	6.31	68	90	82	0	7	4	0
PA	EUGENE	53	43	61	39	48	6	2.27	0.12	0.99	0.61	203	22.64	53	92	84	0	0	5	2
	MEDFORD	53	39	59	34	46	5	1.19	0.45	0.48	0.48	436	9.28	60	94	72	0	0	5	0
	PENDLETON	50	34	57	27	42	4	0.33	-0.05	0.17	0.00	0	8.88	78	90	73	0	3	4	0
PA	PORTLAND	52	43	61	36	48	5	1.42	0.00	0.54	0.08	40	22.27	71	92	79	0	0	5	1
	SALEM	52	42	61	37	47	4	2.71	1.08	1.07	0.26	113	25.06	74	92	85	0	0	5	3
	ALLEGHENY	46	32	57	29	39	1	1.09	0.23	0.75	0.29	242	63.77	152	78	62	0	3	4	1
RI	ERIE	40	32	49	26	36	-3	1.20	0.26	0.71	0.12	92	44.90	115	83	74	0	4	5	1
	MIDDLETOWN	44	33	57	28	39	-2	0.75	-0.10	0.39	0.35	292	61.96	166	82	59	0	2	3	0
	PHILADELPHIA	48	36	58	32	42	-2	1.02	0.25	0.89	0.13	118	58.66	151	76	56	0	1	2	1
SC	PITTSBURGH	39	30	52	22	34	-5	0.83	0.09	0.49	0.49	490	58.41	166	94	75	0	5	4	0
	WILKES-BARRE	40	32	48	29	36	-2	0.77	0.05	0.50	0.11	110	59.03	168	91	71	0	5	6	1
	WILLIAMSPORT	41	32	47	30	36	-1	1.00	0.16	0.72	0.22	183	65.55	169	82	70	0	4	3	1
SD	PROVIDENCE	45	32	48	28	39	-1	2.66	1.66	1.31	0.00	0	59.80	141	91	63	0	3	3	2
	CHARLESTON	63	40	74	30	52	-3	0.49	-0.14	0.49	0.49	544	51.34	106	87	48	0	2	1	0
	COLUMBIA	59	37	68	25	48	-4	0.83	0.20	0.82	0.82	911	43.63	97	96	60	0	2	2	1
TN	FLORENCE	60	37	72	26	49	-3	0.46	-0.13	0.41	0.41	456	55.21	133	92	42	0	2	2	0
	GREENVILLE	53	35	58	21	44	-4	1.30	0.45	1.13	1.13	942	57.63	124	93	57	0	3	3	1
	ABERDEEN	29	17	36	-1	23	-1	0.05	-0.04	0.05	0.00	0	18.44	93	88	76	0	7	1	0
TX	HURON	31	17	39	0	24	-2	0.06	-0.07	0.05	0.05	250	22.41	109	89	70	0	7	2	0
	RAPID CITY	42	26	55	19	34	5	0.53	0.47	0.51	0.51	5100	25.51	157	91	69	0	6	3	1
	SIOUX FALLS	30	20	37	6	25	-1	0.18	-0.04	0.16	0.16	533	42.40	175	85	73	0	7	2	0
TX	BRISTOL	48	32	63	19	40	-2	0.66	-0.13	0.30	0.15	136	49.15	129	97	59	0	4	5	0
	CHATTANOOGA	50	36	60	24	43	-4	1.82	0.62	0.80	0.80	471	57.72	116	80	68	0	3	5	2
	KNOXVILLE	49	34	65	21	42	-4	1.09	0.07	0.40	0.40	267	54.77	125	90	68	0	3	5	0
TX	MEMPHIS	58	42	73	25	50	1	1.01	-0.50	0.66	0.66	300	57.97	118	87	58	0	3	3	0
	NASHVILLE	54	37	66	20	46	0	0.75	-0.38	0.44	0.44	275	55.27	126	80	59	0	3	4	0
	ABILENE	70	42	82	26	56	6	0.00	-0.22	0.00	0.00	0	30.28	134	65	37	0	2	0	0
TX	AMARILLO	63	31	75	22	47	6	0.00	-0.08	0.00	0.00	0	12.93	68	63	20	0	4	0	0
	AUSTIN	72	45	80	30	58	2	0.05	-0.47	0.04	0.04	57	29.18	93	81	43	0	2	2	0
	BEAUMONT	73	51	81	37	62	4	0.11	-1.02	0.05	0.01	6	83.01	151	87	64	0	0	3	0
TX	BROWNSVILLE	76	58	86	42	67	2	0.63	0.31	0.60	0.00	0	22.41	85	93	65	0	0	2	1
	CORPUS CHRISTI	74	54	83	42	64	2	0.01	-0.32	0.01	0.00	0	39.76	130	85	70	0	0	1	0
	DEL RIO	72	45	80	39	59	3	0.00	-0.17	0.00	0.00	0	24.93	142	81	47	0	0	0	0
TX	EL PASO	64	41	71	32	52	3	0.01	-0.11	0.01	0.00	0	7.94	91	48	22	0	1	1	0
	FORT WORTH	67	45	78	31	56	5	0.01	-0.49	0.01	0.00	0	51.63	160	76	37	0	2	1	0
	GALVESTON	70	57	80	45	63	1	0.07	-0.80	0.07	0.00	0	56.48	140	90	56	0	0	1	0
TX	HOUSTON	72	51	81	35	62	4	0.17	-0.73	0.16	0.00	0	51.41	116	92	64	0	0	2	0
	LUBBOCK	66	33	78	21	50	6	0.00	-0.14	0.00	0.00	0	13.84	77	56	25	0	3	0	0
	MIDLAND	70	39	82	25	54	5	0.00	-0.11	0.00	0.00	0	16.67	118	62	25	0	1	0	0
TX	SAN ANGELO	70	40	81	24	55	5	0.00	-0.19	0.00	0.00	0	31.59	158	70	35	0	2	0	0
	SAN ANTONIO	71	48	79	34	60	3	0.00	-0.48	0.00	0.00	0	38.88	125	84	39	0	0	0	0
	VICTORIA	74	49	83	33	61	2	0.00	-0.55	0.00	0.00	0	33.20	88	92	60	0	0	0	0
TX	WACO	69	44	78	28	56	3	0.11	-0.48	0.11	0.00	0	30.26	99	84	45	0	2	1	0
	WICHITA FALLS	68	36	78	26	52	4	0.02	-0.31	0.01	0.00	0	34.66	128	76	36	0	3	2	0
	SALT LAKE CITY	43	31	45	25	37	2	0.30	0.01	0.18	0.00	0	11.92	78	89	64	0	4	3	0
VT	BURLINGTON	37	33	42	32	35	2	1.39	0.74	0.71	0.00	0	36.70	108	92	78	0	2	5	1
	LYNCHBURG	50	31	60	22	40	-3	0.30	-0.44	0.17	0.17	170	60.72	151	84	56	0	4	3	0
	NORFOLK	55	39	66	32	47	-3	0.17	-0.47	0.07	0.07	78	52.77	123	82	53	0	1	3	0
WA	RICHMOND	52	34	62	26	43	-3	0.19	-0.48	0.10	0.09	100	61.79	151	78	57	0	2	2	0
	ROANOKE	51	33	63	23	42	-2	0.37	-0.36	0.19	0.19	190	57.61	145	78	62	0	3	2	0
	WASH/DULLES	45	31	61	27	38	-4	0.49	-0.25	0.25	0.25	250	61.47	158	84	69	0	4	3	0
WA	OLYMPIA	50	41	58	32	46	6	2.60	0.59	1.11	0.01	4	36.99	86	95	92	0	1	7	2
	QUILLAYUTE	51	43	57	38	47	5	4.63	1.06	2.93	0.12	24	81.86	93	94	92	0	0	6	2
	SEATTLE-TACOMA	51	43	58	36	47	4	3.67	2.22	2.05	0.05	25	29.70	94	90	82	0	0	6	2
WV	SPOKANE	41	33	45	27	37	6	0.96	0.38	0.32	0.14	175	13.48	93	94	85	0	3	6	0
	YAKIMA	44	30	49	23	37	4	0.28	0.00	0.11	0.05	125	4.43	64	93	86	0	6	5	0



International Weather and Crop Summary

November 25 - December 1, 2018

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

EUROPE: Beneficial rain over western and southern Europe contrasted with varying degrees of dryness and drought in northern and northeastern crop areas.

MIDDLE EAST: Rain expanded and intensified, alleviating dryness concerns in central Turkey while sustaining abundant to locally excessive moisture supplies for winter grains elsewhere.

NORTHWESTERN AFRICA: Drier weather in western and central growing areas contrasted with locally heavy showers in the northeast.

EAST ASIA: Mild weather and light showers in eastern China promoted wheat and rapeseed development.

SOUTHEAST ASIA: The remnants of Typhoon Usagi caused localized flooding in southern Vietnam, while showers improved moisture conditions for rice in Java, Indonesia.

AUSTRALIA: Rain benefited summer crops in New South Wales while winter crop harvesting progressed in the south and west.

SOUTH AFRICA: Rain was limited for summer crop germination in central and western sections of the corn belt.

ARGENTINA: Dry weather supported corn and soybean planting in southern production areas.

BRAZIL: Widespread, locally heavy showers benefited summer crops in most major farming areas.

November 2018

		COUNTRY	CITY	TEMPERATURE (C)						PRECIP. (MM)	
				Avg Max	Avg Min	Highest Max	Lowest Min	Avg	Dep Nrm	Total Tot	Dep Nrm
ALGERI	ALGER			22	11	27	4	17	1.6	105	24
				18	4	23	-2	11	0.2	0	-17
ARGENT	IGUAZU	31	20	35	17	25	1.1	165	28		
	FORMOSA	31	21	37	16	26	1.7	275	106		
	CERES	29	17	35	10	23	1.3	214	112		
	CORDOBA	28	15	36	7	21	0.6	129	20		
	RIO CUARTO	27	14	36	9	20	0.7	187	55		
	ROSARIO	27	16	35	9	21	0.8	226	116		
	BUENOS AIRES	26	15	35	5	21	1.6	191	97		
	SANTA ROSA	26	13	36	6	20	0.3	91	-5		
	TRES ARROYOS	23	12	32	3	17	0.8	149	64		
	DARWIN	33	26	36	23	29	0.1	116	-18		
AUSTR	BRISBANE	27	19	36	14	23	0.8	26	-81		
	PERTH	26	13	36	6	19	-0.1	5	-21		
	CEDUNA	25	13	37	6	19	-0.2	0	-20		
	ADELAIDE	23	14	35	8	18	-0.1	10	-11		
	MELBOURNE	22	12	35	5	17	1.3	67	17		
	WAGGA	27	13	38	5	20	1.9	96	55		
	CANBERRA	25	11	34	3	18	1.9	82	16		
	VIENNA	9	4	18	-8	6	1.7	54	8		
	INNSBRUCK	11	2	19	-5	7	3.6	14	-52		
	NAASSAU	30	22	33	17	26	1.8	23	-45		
BARBAD	BRIDGETOWN	29	25	31	24	27	0.1	146	14		
	MINSK	2	-1	11	-11	1	0.4	31	-18		
	ST GEORGES	24	20	26	15	22	0.3	211	120		
	LA PAZ	17	4	20	2	11	0.8	41	-12		
	FORTALEZA	31	26	33	24	29	0.6	1	-24		
	RECIFE	29	26	30	24	27	-1.1	22	-6		
	CAMPO GRANDE	30	22	35	18	26	0.1	486	335		
	FRANCA	26	19	32	15	22	-0.2	429	276		
	RIO DE JANEIRO	29	22	36	18	26	0.6	96	-3		
	LONDRINA	30	19	36	15	25	1.9	123	-46		
BRAZIL	SANTA MARIA	29	18	35	11	23	1.5	245	122		
	TORRES	25	18	29	13	21	-1.6	64	-78		
	SOFIA	11	2	22	-10	6	1.8	64	21		
	OUAGADOUGOU	37	22	38	18	29	1.3	0	-3		
	LETHBRIDGE	6	-5	14	-20	0	****	16	*****		
	REGINA	-2	-10	7	-25	-6	****	8	*****		
	WINNIPEG	-4	-10	5	-17	-7	****	10	*****		
	TORONTO	4	-1	16	-13	2	-1.6	105	36		
	MONTRÉAL	2	-4	13	-18	-1	-2.4	122	30		
	PRINCE ALBERT	-6	-13	4	-25	-9	-1.8	30	15		
CANARY	CALGARY	5	-6	15	-15	0	2.8	30	18		
	VANCOUVER	11	5	15	-2	8	1.5	204	24		
	LAS PALMAS	23	17	26	13	20	-0.6	15	-2		
	SANTIAGO	29	11	34	5	20	2.9	0	-5		
	HARBIN	2	-7	15	-16	-3	2.5	20	10		
	HAMI	6	-6	14	-13	0	-0.4	4	2		
	BEIJING	11	1	18	-4	6	1.4	1	-6		
	TIENTSIN	12	2	20	-2	7	1.7	14	5		
	LHASA	14	-2	17	-6	6	2.3	0	-1		
	KUNMING	20	6	21	2	13	1.3	0	-42		
CHILE	CHENGCHOW	15	6	22	-1	10	2.4	19	-3		
	YEHCHANG	16	9	23	5	12	-0.2	65	19		
	HANKOW	17	8	25	2	13	0.5	115	66		
	CHUNGKING	16	12	25	9	14	-0.6	35	-14		
	CHIHKIANG	16	9	26	4	13	0.3	144	90		
	WU HU	17	10	23	5	13	1.4	71	12		
	SHANGHAI	18	11	22	5	15	1.2	107	54		
	NANCHANG	18	12	23	7	15	1.5	118	61		
	TAIPEI	25	21	30	17	23	1.4	64	-8		
	CANTON	25	17	30	13	21	1.5	42	8		
COLOMB	NANNING	24	16	29	12	20	0.9	18	-23		
	BOGOTA	21	10	23	7	15	1.9	159	71		
	ABIDJAN	31	26	32	22	28	0.7	156	24		
	CAMAGUEY	30	21	32	18	26	1.2	1	-65		
	LARNACA	24	14	29	11	19	2	49	-5		
	PRAGUE	7	2	16	-7	4	1.6	7	-23		
	COPENHAGEN	8	5	12	-3	6	1.5	36	-9		
	CAIRO	26	17	31	15	21	2.1	4	-2		

Based on Preliminary Reports

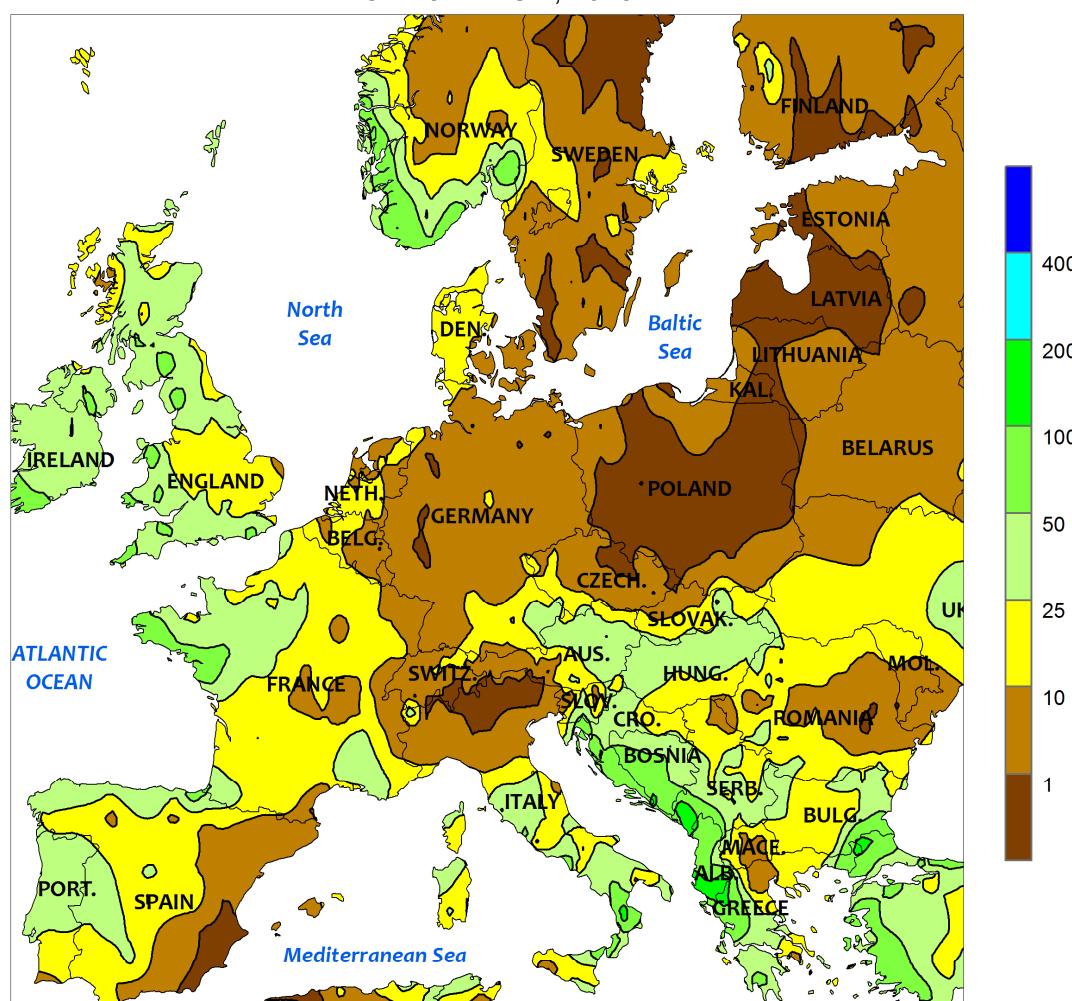
November 2018

COUNTRY	CITY	TEMPERATURE (C)						PRECIP. (MM)			COUNTRY	CITY	TEMPERATURE (C)						
		Avg Max	Avg Min	Hi Max	Lo Min	Avg	Dep Nrm	Dep Tot	Dep Nrm	Avg Max	Avg Min	Hi Max	Lo Min	Avg	Dep Nrm	Dep Tot	Dep Nrm		
		MAX	MIN	MAX	MIN	Avg	NRM	TOT	NRM	MAX	MIN	MAX	MIN	Avg	NRM	TOT	NRM		
ESTONIA	TALLINN	5	2	12	-7	4	2.9	29	-40	N KOREA	PYONGYANG	11	2	18	-6	6	1.6	38	-2
ETHIOPIA	ADDIS ABABA	23	10	25	7	17	1.2	4	-4	NEW CA	NOUMEA	29	21	34	18	25	1.2	30	-40
F GUISA	CAYENNE	31	23	33	22	27	1.0	188	34	NIGER	NIAMEY	38	22	40	20	30	1.8	0	-1
FIJI	NAUSORI	29	22	33	20	26	0.6	475	231	NORWAY	OSLO	3	0	10	-13	2	2.5	85	-3
FINLAN	HELSINKI	4	1	10	-8	3	2.5	26	-45	NZELA	AUCKLAND	20	13	24	7	17	****	97	*****
FRANCE	PARIS/ORLY	11	6	20	-3	8	0.9	65	16	WELLINGTON		18	12	22	7	15	****	99	*****
	STRASBOURG	10	4	19	-3	7	1.8	19	-29	P RICO	SAN JUAN	30	24	32	23	27	0.7	149	-8
	BOURGES	12	6	19	-4	9	2.3	43	-19	PAKIST	KARACHI	34	20	38	17	27	2.7	0	*****
	BORDEAUX	15	7	19	-2	11	1.9	95	-9	PERU	LIMA	23	18	26	16	21	1.3	0	-1
	TOULOUSE	15	7	21	1	11	2.3	34	-16	PHILIP	MANILA	32	26	34	25	29	0.9	23	-120
	MARSEILLE	17	10	22	2	14	3.4	172	122	PNEWGU	PORT MORESBY	32	26	35	24	29	1.7	0	-53
GABON	LIBREVILLE	30	26	31	22	28	1.7	554	32	POLAND	WARSAW	7	3	19	-8	5	1.8	12	-24
GERMAN	HAMBURG	9	4	16	-4	6	1.1	22	-48	PORTUG	LISBON	17	11	20	7	14	0.2	191	89
	BERLIN	8	4	18	-4	6	1.3	18	-26	ROMANI	BUCHAREST	9	2	20	-6	5	0.9	67	27
	DUSSELDORF	11	5	20	-2	8	0.9	20	-42	RUSSIA	ST.PETERSBURG	4	2	11	-8	3	2.9	21	-33
	LEIPZIG	9	3	19	-8	6	1.4	11	-25		KAZAN	-1	-4	7	-12	-3	1.2	21	-25
	DRESDEN	8	4	17	-7	6	1.5	8	-36		MOSCOW	1	-2	9	-13	0	1.3	22	-36
	STUTTGART	10	2	17	-4	6	1.6	13	-33		YEKATERINBURG	-4	-7	3	-19	-5	0.8	24	-5
	NURNBERG	9	2	18	-4	6	1.9	9	-36		OMSK	-5	-9	2	-20	-7	0.6	52	24
	AUGSBURG	7	1	17	-3	5	1.1	21	-30		BARNAUL	-5	-9	2	-27	-7	-0.2	54	25
GREECE	THESSALONIKA	17	9	24	5	13	2.3	28	-30		KHABAROVSK	-1	-8	13	-19	-5	3.0	19	-4
	LARISSA	16	8	25	2	12	1.9	47	-24		ORENBURG	0	-8	6	-22	-4	-0.4	27	-9
	ATHENS	19	13	26	8	16	1.3	29	-39		VLADIVOSTOK	4	-2	14	-11	1	2.1	58	32
	GUADEL	RAIZET	30	23	32	20	26	0.2	334		VOLGOGRAD	3	-5	12	-13	-1	-0.3	10	-20
	HONGKO	HONG KONG INT	27	22	30	17	24	2.4	57		ASTRAKHAN	6	-1	15	-12	3	-0.4	6	-12
HUNGAR	BUDAPEST	11	5	21	-4	8	3.3	48	0		ORENBURG	0	-8	6	-22	-4	-0.4	27	-9
ICELAN	REYKJAVIK	6	3	11	-1	4	3.1	57	-25		VLADIVOSTOK	4	-2	14	-11	1	2.1	58	32
INDIA	AMRITSAR	26	11	29	6	18	0.4	6	-1		VOLGOGRAD	3	-5	12	-13	-1	-0.3	10	-20
	NEW DELHI	28	13	31	11	21	0.4	8	0		ASTRAKHAN	6	-1	15	-12	3	-0.4	6	-12
	AHMEDABAD	34	17	36	14	26	1.1	0	-10		ORENBURG	0	-8	6	-22	-4	-0.4	27	-9
	INDORE	31	17	33	13	24	1.6	0	-15		VALLADOLID	13	6	18	-1	9	1.4	88	40
	CALCUTTA	30	21	34	17	25	1.1	0	-37		MADRID	14	7	19	-1	11	0.7	77	26
	VERVAL	34	22	37	19	28	1.8	0	-26		SEVILLE	19	11	23	6	15	-0.2	132	35
	BOMBAY	35	22	38	19	29	1.3	0	-6		ZURICH	8	4	16	-2	6	1.5	15	-74
	POONA	32	16	34	11	24	1.5	5	-22		GENEVA	10	5	16	-1	7	2.0	76	-9
	BEGAMPET	32	18	34	14	25	1.9	0	-29		DAMASCUS	19	8	25	4	14	1.9	37	14
	VISHAKHAPATNAM	32	25	34	21	28	2.3	2	-100		TAHITI	31	25	32	23	28	1.4	41	-90
	MADRAS	31	24	33	22	27	0.9	235	-121		PAPEETE	31	25	32	23	28	1.4	41	-90
	MANGALORE	34	23	35	21	29	0.9	22	-44		DAR ES SALAAM	33	23	34	21	28	1.7	26	-90
INDONE	SERANG	33	24	37	23	29	1.0	123	-27		THAILA	34	23	35	20	28	1.8	18	-15
IRELAN	DUBLIN	11	6	15	1	8	1.0	132	68		PHTISANULOK	34	23	35	20	28	1.8	18	-15
ITALY	MILAN	13	8	18	-1	11	3.6	108	32		BANGKOK	34	26	36	23	30	2.3	48	-2
	VENICE	14	9	21	0	11	3.4	95	24		TOGO	34	24	36	21	29	2.0	21	-14
	GENOA	16	12	20	6	14	1.1	359	257		TRINID	32	24	34	22	28	1.1	179	-19
	ROME	18	10	22	5	14	1.8	256	160		TRINID	32	24	34	22	28	1.1	179	-19
	NAPLES	19	10	23	2	14	1.8	30	-109		TUNISI	21	13	25	6	17	0.8	43	-21
JAMAIC	KINGSTON	32	25	33	24	28	0.8	39	-50		TURKEY	17	12	25	7	14	2.9	91	9
JAPAN	SAPPORO	10	4	18	-4	7	2.1	79	-23		ANKARA	13	1	24	-7	7	2.3	20	-20
	NAGOYA	19	10	23	4	14	2.4	46	-33		ASHKABAD	14	5	19	-1	9	-0.5	23	3
	TOKYO	18	11	23	6	14	1.3	66	-26		UKINGD	***	***	14	0	***	****	*****	
	YOKOHAMA	18	12	23	7	15	1.8	58	-41		ABERDEEN	***	***	14	0	***	****	*****	
	KYOTO	18	10	24	4	14	1.5	24	-39		LONDON	12	6	16	-1	9	1.0	72	22
	OSAKA	19	11	24	6	15	1.7	31	-33		KIEV	3	-2	12	-11	0	-1.1	19	-29
KAZAKH	KUSTANAY	-1	-7	6	-17	-4	2.2	20	-3		LVOV	6	1	18	-10	4	1.7	34	-11
	TSELINOGRAD	-4	-9	3	-21	-7	-0.1	43	17		KIROVOGRAD	3	-3	13	-11	0	-1.1	59	24
	KARAGANDA	-5	-10	3	-24	-7	-1.9	49	22		ODESSA	6	3	14	-7	4	-1.0	28	-15
KENYA	NAIROBI	25	16	28	11	21	1.4	62	-52		KHARKOV	3	-4	12	-13	-1	-1.2	22	-22
LIBYA	BENGHAZI	24	***	28	12	***	****	12	-30		TASHKENT	12	2	18	-5	7	-1.2	60	12
LITHUA	KAUNAS	4	1	15	-8	3	0.7	29	-18		YUGOSL	13	6	26	-5	10	3.0	37	-17
LUXEMB	LUXEMBOURG	9	4	17	-2	6	2.4	51	-27		BELGRADE	13	20	36	15	25	-0.1	10	-82
MALAYS	KUALA LUMPUR	33	25	34	23	29	1.9	423	134		ZAMBIA	30	20	36	15	25	-0.1	10	-82
MALI	BAMAKO	36	19	38	15	28	0.2	0	-5		KADOMA	30	***	37	13	***	****	25	-61
MARSHA	MAJURO	30	27	32	26	29	1.2	239	-82										
MARTIN	LAMENTIN	30	24	32	21	27	1.5	210	9										
MEXICO	GUADALAJARA	24	12	28	6	18	0.2	35	21										
	TLAXCALA	22	10	28	5	16	1.2	36	18										
	ORIZABA	23	15	30	8	19	1.3	92	15										
MOROCC	CASABLANCA	20	13	24	7	16	0.2	104	52										
	MARRAKECH	22	10	27	8	16	-0.3	57	33										
MOZAMB	MAPUTO	31	19	39	12	25	0.3	46	-28										

EUROPE

Total Precipitation (mm)

NOV 25 - DEC 1, 2018

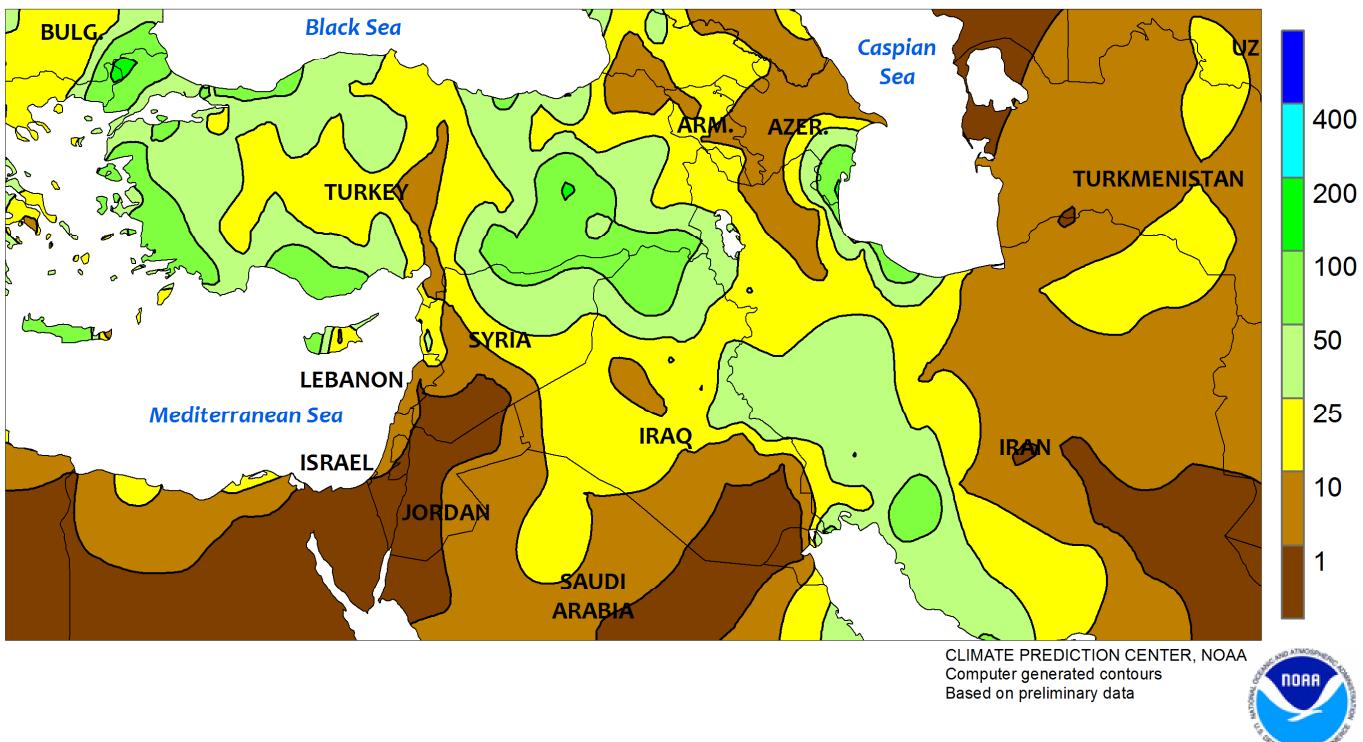


EUROPE

Beneficial precipitation in western and southern growing areas contrasted with lingering dryness and drought over northern portions of the continent. An area of high pressure — which has persisted over northern Europe for the past two weeks — began to shift eastward and weaken, maintaining mostly dry weather in Poland and the Baltic States but allowing much-needed albeit light showers (1-10 mm) to spread into drought-afflicted Germany. By week's end, this high pressure system moved into

Russia, opening the door for beneficial rain and snow over northeastern Europe. Conversely, storms continued to produce moderate to heavy precipitation (10-100 mm liquid equivalent, locally more) over southern and western Europe, maintaining or improving moisture supplies for vegetative (south) to dormant (north and east) winter crops. Furthermore, the season's first significant snow (2-15 cm) in southeastern Europe provided insulation from nighttime readings as low as -17°C.

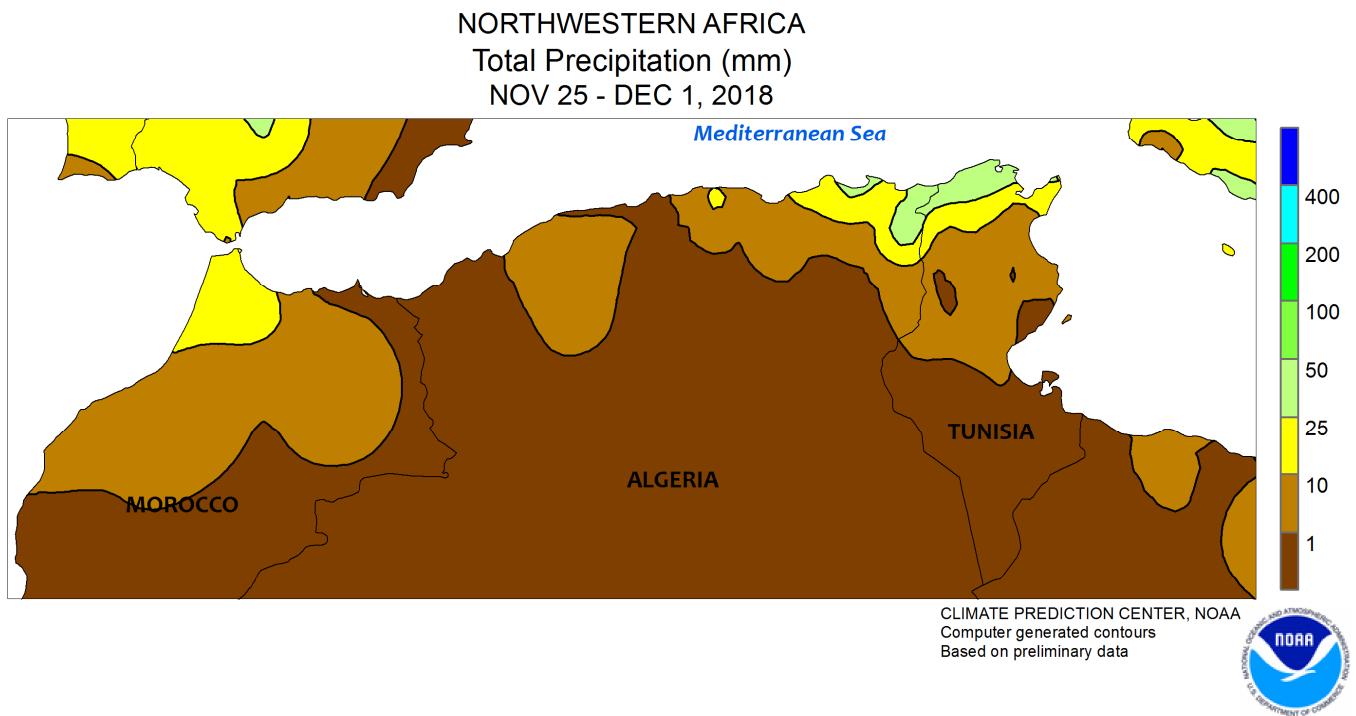
MIDDLE EAST
Total Precipitation (mm)
NOV 25 - DEC 1, 2018



MIDDLE EAST

Wet weather expanded and intensified, slowing fieldwork but maintaining or improving moisture supplies for winter grains. A pair of slow-moving storm systems bookended the period, with a departing system early in the week producing additional moderate to heavy rain and mountain snow (10-75 mm) over eastern Iraq and Iran. Later in the week, a moisture-laden Mediterranean storm brought soaking rain (10-100 mm, locally more) and heavy mountain snow to Turkey, Syria, and Iraq. The precipitation was especially welcomed on the Anatolian

Plateau in central Turkey, which has consistently missed out on this autumn's copious rainfall. Otherwise, most major winter grain areas are in need of drier weather to complete sowing efforts and other seasonal fieldwork. Temperatures up to 5°C above normal in Turkey extended the window for wheat and barley establishment in previously-dry central growing areas. Elsewhere, near- to above-normal temperatures facilitated crop growth in locales where producers have been able to sow winter grains.

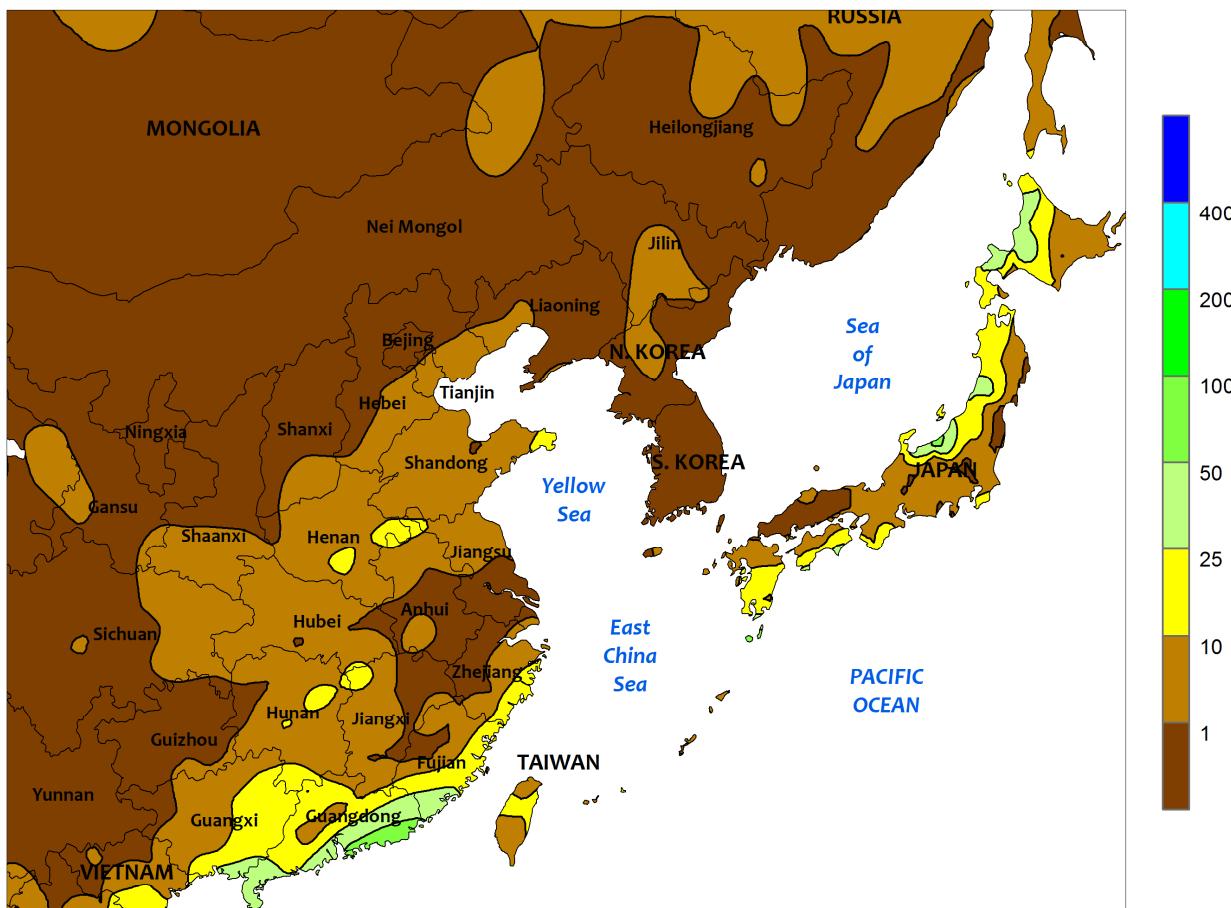


NORTHWESTERN AFRICA

Somewhat drier weather returned to western and central growing areas, while locally heavy showers lingered in the northeast. In particular, most major winter grain areas from Morocco into western and central Algeria reported light showers (less than 5 mm), though heavier rain (up to 25 mm) was reported in northern Morocco.

The welcomed respite allowed producers to resume wheat and barley sowing efforts delayed by the recent wet weather. In contrast, moderate to heavy showers (10-50 mm) lingered over the eastern quarter of the region, boosting moisture supplies for winter crop establishment but hampering planting efforts.

EASTERN ASIA
Total Precipitation (mm)
NOV 25 - DEC 1, 2018



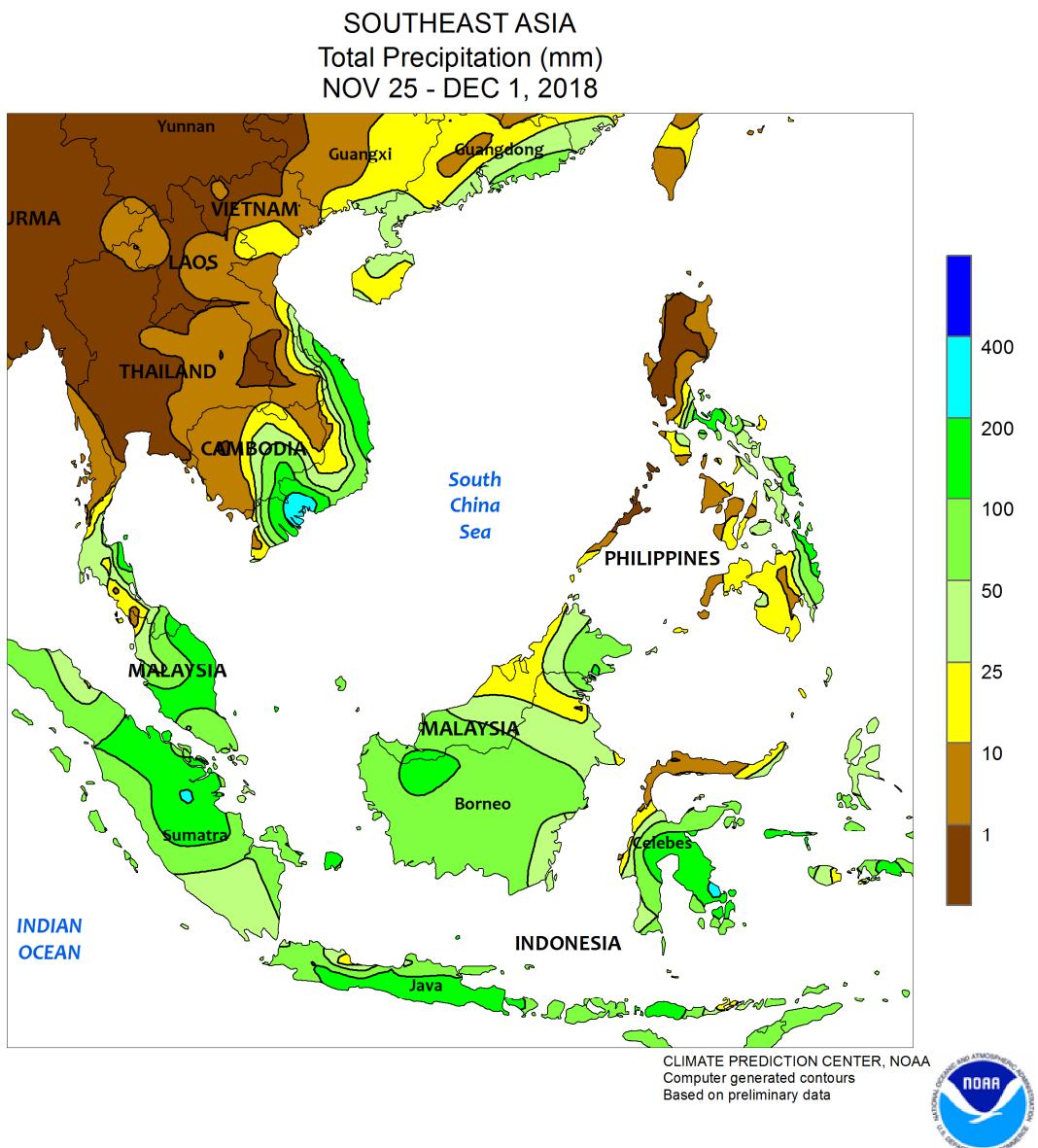
CLIMATE PREDICTION CENTER, NOAA
 Computer generated contours
 Based on preliminary data



EASTERN ASIA

Unseasonably mild weather overspread eastern China, with temperatures averaging over 3°C above normal. The warmer-than-average conditions along with light showers (1-10 mm, locally more) promoted wheat and rapeseed development, allowing the crops to add vegetation prior to

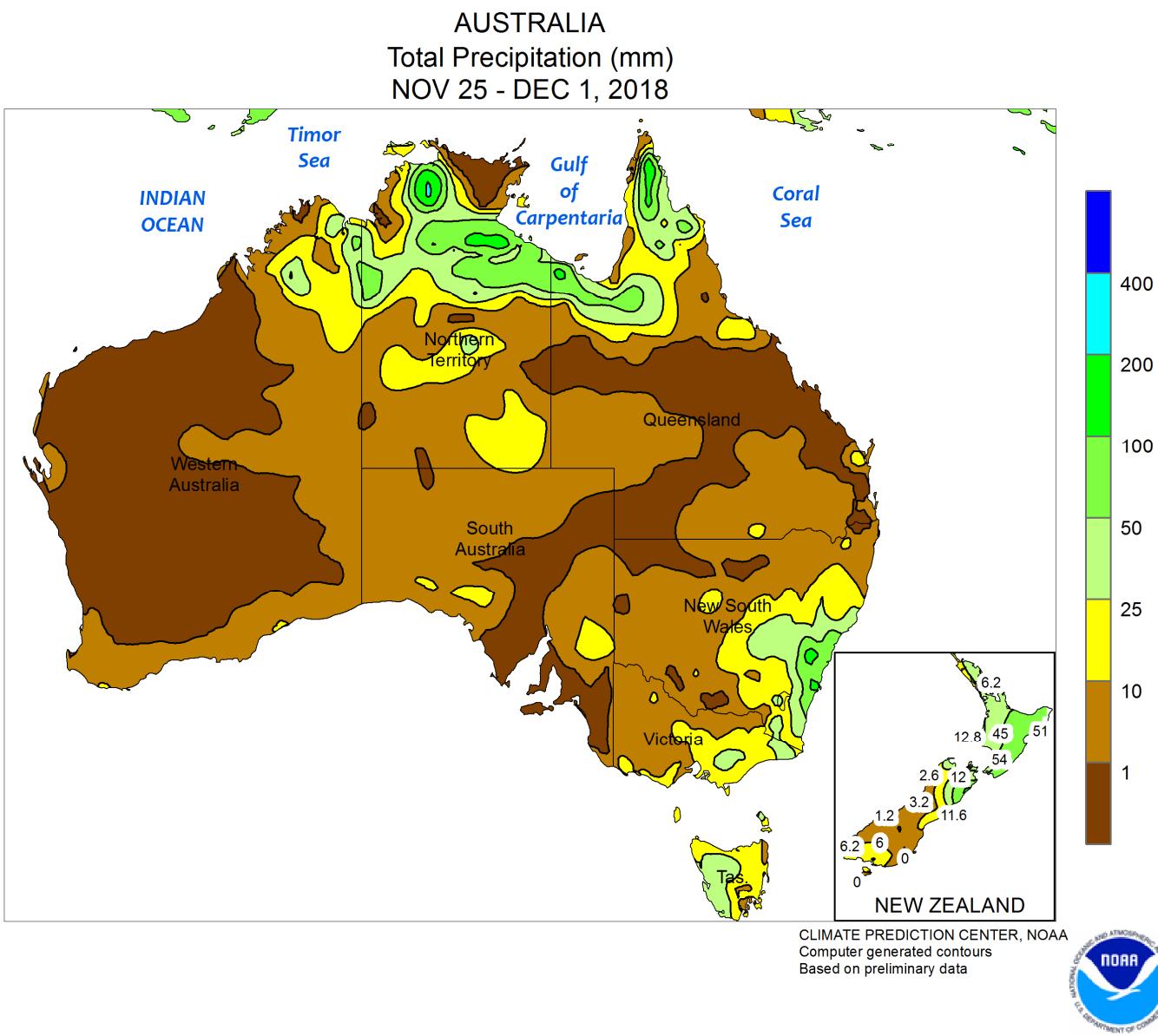
dormancy. Crop conditions remained good to locally excellent. In southern and southeastern China, showers (10-100 mm) maintained favorable moisture conditions for sugarcane and winter vegetables, particularly in the coastal provinces where totals were the highest.



SOUTHEAST ASIA

The remnants of Typhoon Usagi caused flooding in parts of southern Vietnam but generally outside major rice areas. The wet weather, however, delayed coffee harvesting and likely reduced output. In contrast, drier weather prevailed in the Philippines with few areas receiving more than 25 mm of rainfall. Moisture conditions continued to be poor for rice and corn in the northeast, where totals since

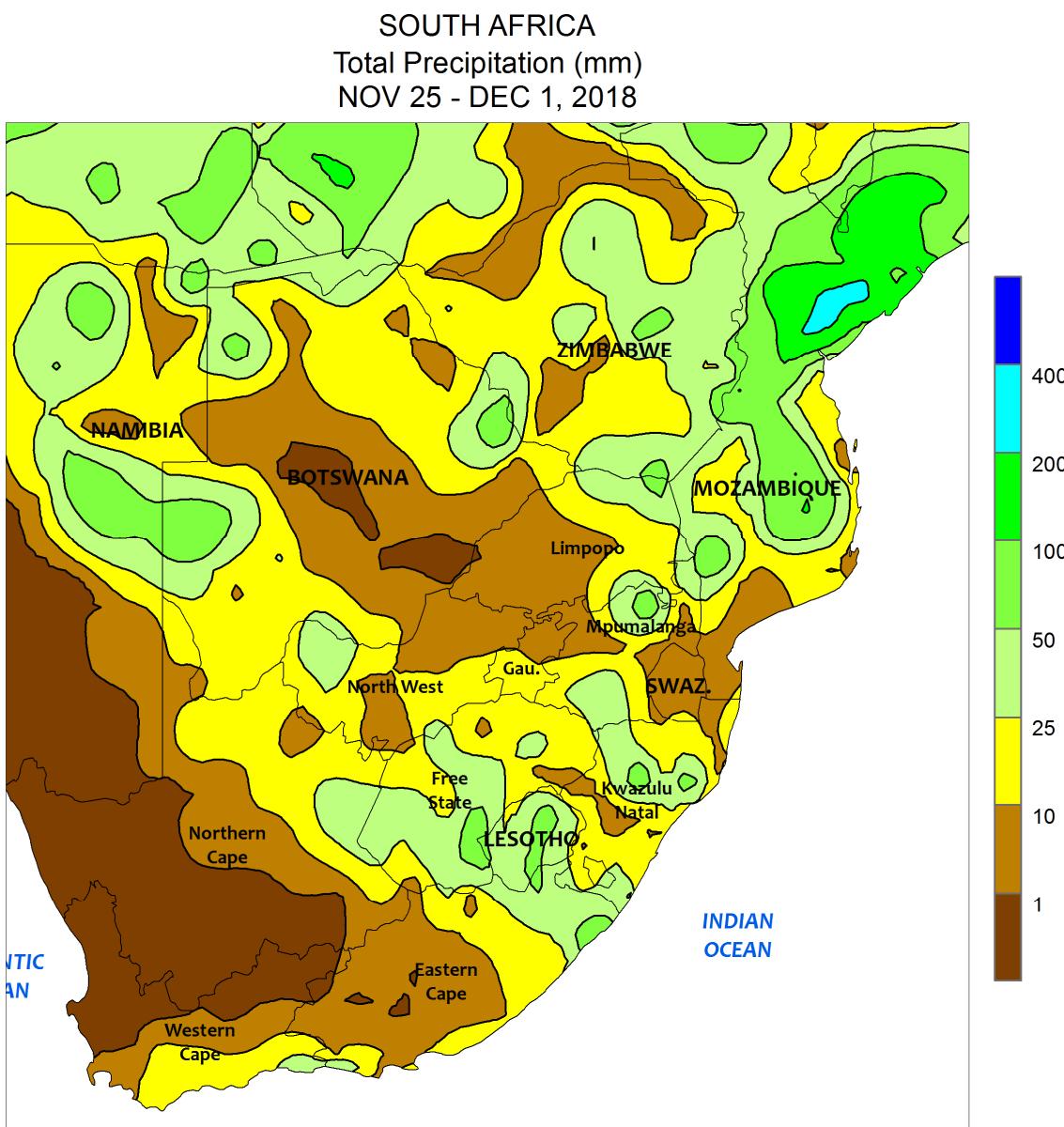
October 1 have been less than half of normal. Meanwhile, seasonably wet weather (25-100 mm or more) continued throughout Malaysia and Indonesia, maintaining good moisture conditions for oil palm and rice. However despite the recent showers, seasonal rainfall has been slow to develop in Java, Indonesia, with totals in most areas lagging the long-term average and last year.



AUSTRALIA

Widely scattered showers (mostly less than 5 mm) in southern Queensland and far northern New South Wales provided little additional moisture for vegetative summer crops. In the wake of last week's soaking rain, however, sunny skies and adequate topsoil moisture favored cotton and sorghum development and helped maintain generally good early-season yield prospects. Farther south, rain (10-50 mm, locally more) throughout the remainder of New South Wales reduced irrigation

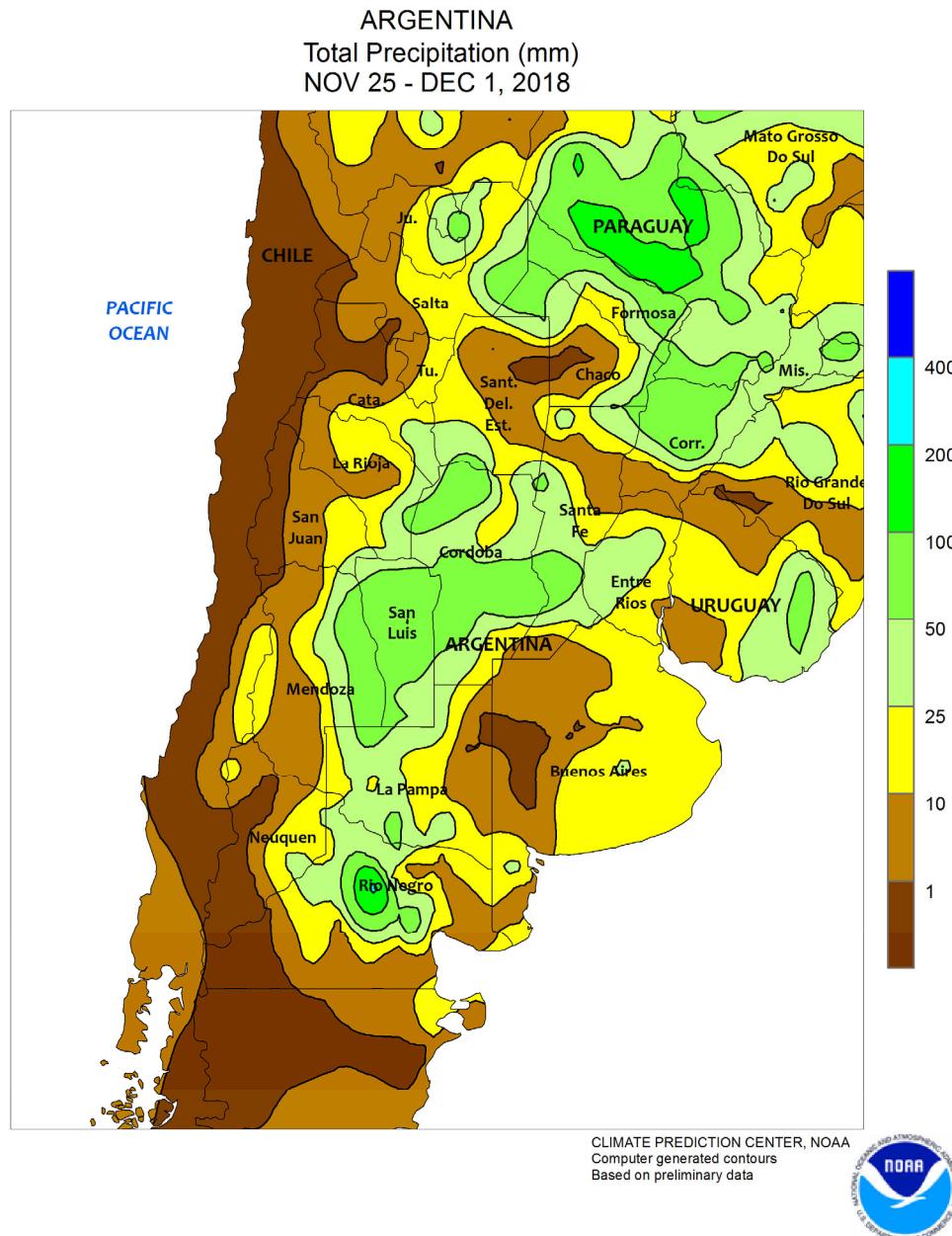
requirements for cotton and rice. Passing showers (1-10 mm, locally more) in Victoria and South Australia may have temporarily delayed local wheat, barley, and canola harvesting, but any delays were likely short-lived. In Western Australia, mostly dry weather allowed winter grain and oilseed harvesting to proceed without delay. Temperatures averaged 1 to 3°C below normal in Western Australia and South Australia and near normal in eastern Australia.



SOUTH AFRICA

Warmer- and drier-than-normal weather limited moisture for germination of rain-fed summer crops in central and western sections of the corn belt. Many locations recorded rainfall totaling less than 10 mm, including sections of North West and central Free State that have recorded below-normal rainfall thus far in the season. Weekly temperatures averaged 1 to 2°C above normal in the aforementioned areas, with daytimes reaching the lower and middle 30s (degrees C) at most locations, exacerbating the impacts of the dryness. Similar

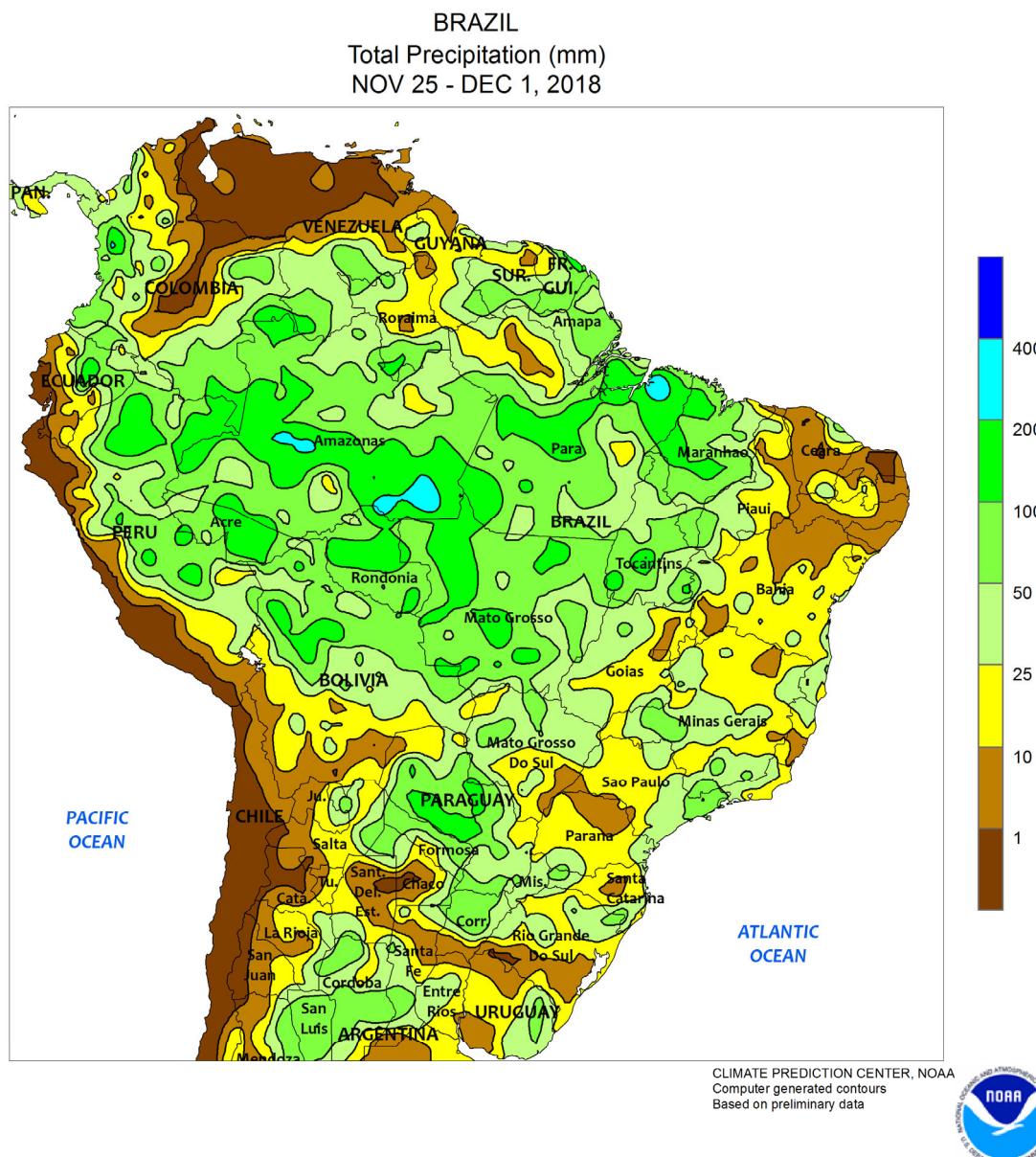
conditions prevailed in sugarcane areas of KwaZulu-Natal and eastern Mpumalanga, though daytime highs were somewhat higher in irrigated farming areas, with highs approaching 40°C. Meanwhile, scattered light showers (less than 10 mm in most locations) and summer warmth (daytime highs reaching the upper 30s) were recorded in irrigated farmlands of the Orange River Valley as locally heavy showers (greater than 25 mm) swept along the Indian Coast. Warm, sunny weather spurred growth of tree and vine crops in Western Cape.



ARGENTINA

A second week of drier-than-normal weather favored summer crop planting in southern farming areas. Rainfall totaled less than 10 mm over large sections of La Pampa and western Buenos Aires, with somewhat higher amounts (10-25 mm) in eastern Buenos Aires and Entre Ríos. Heavier rain (25-100 mm) continued over Córdoba and Santa Fe, delaying fieldwork but helping to fully recharge soil moisture for the summer growing season. Farther north, moderate to heavy rain (10-50 mm, locally higher)

maintained overall favorable prospects for summer crops — including cotton — though the rain was untimely for maturing winter grains. Weekly average temperatures were up to 2°C below normal, despite several days with daytime highs reaching the upper 20s and lower 30s (degrees C). At week's end, daytime highs dropping below 20°C in southern and eastern sections of Buenos Aires briefly slowed vegetative growth of emerged summer grains and oilseeds.

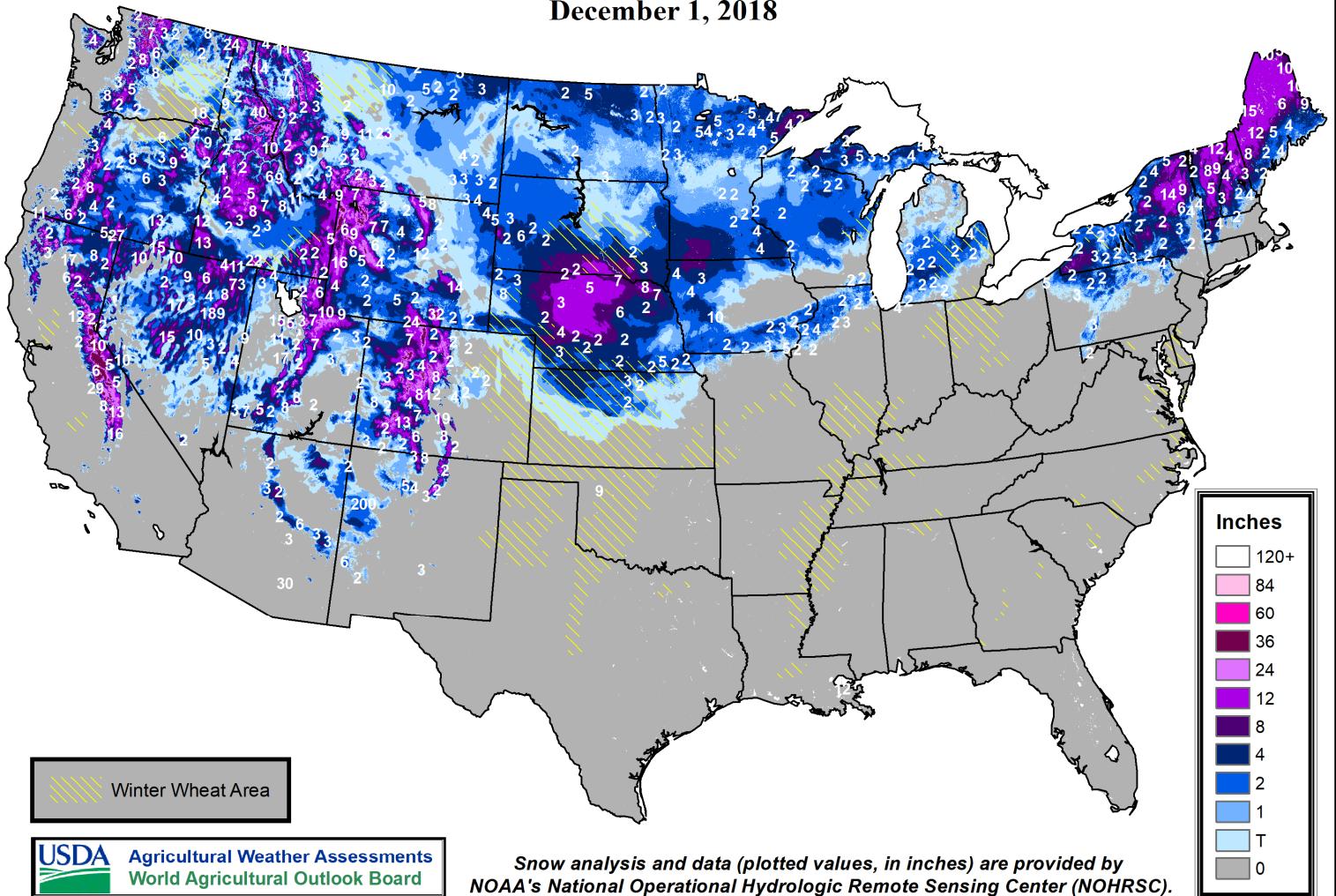
**BRAZIL**

Locally heavy rain maintained favorable crop prospects in Brazil's more northerly farming areas. Rainfall totaling 50 mm to more than 100 mm spanned a large area from Mato Grosso eastward through Bahia, reaching northward into the northeastern interior (including Maranhão and Piauí). Although sunny skies would now benefit growth of soybeans and other summer row crops, the recent abundant moisture has been overall favorable to crops. Showers were more variable farther south; pockets of dryness (less than 25 mm) developed over Paraná, São Paulo, and neighboring locations in Mato

Grosso do Sul, but higher amounts (25-50 mm or more) were recorded elsewhere. According to the government of Paraná, where farmers have experienced periods of dryness in recent weeks, fieldwork — including summer crop planting and wheat harvesting — was virtually complete as of November 26, with early-sown soybeans and first-crop corn already entering reproductive phases of development. Summer warmth (daytime highs reaching the upper 20s and lower 30s on most days) advanced summer crop development throughout Brazil, without posing stress on crops.

Snow Depth

December 1, 2018



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