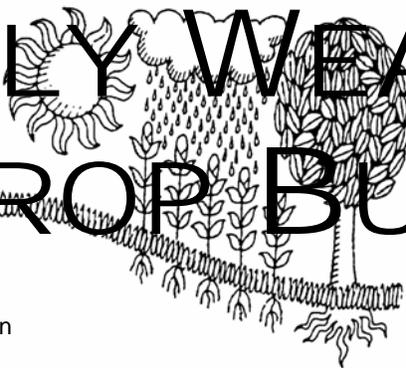
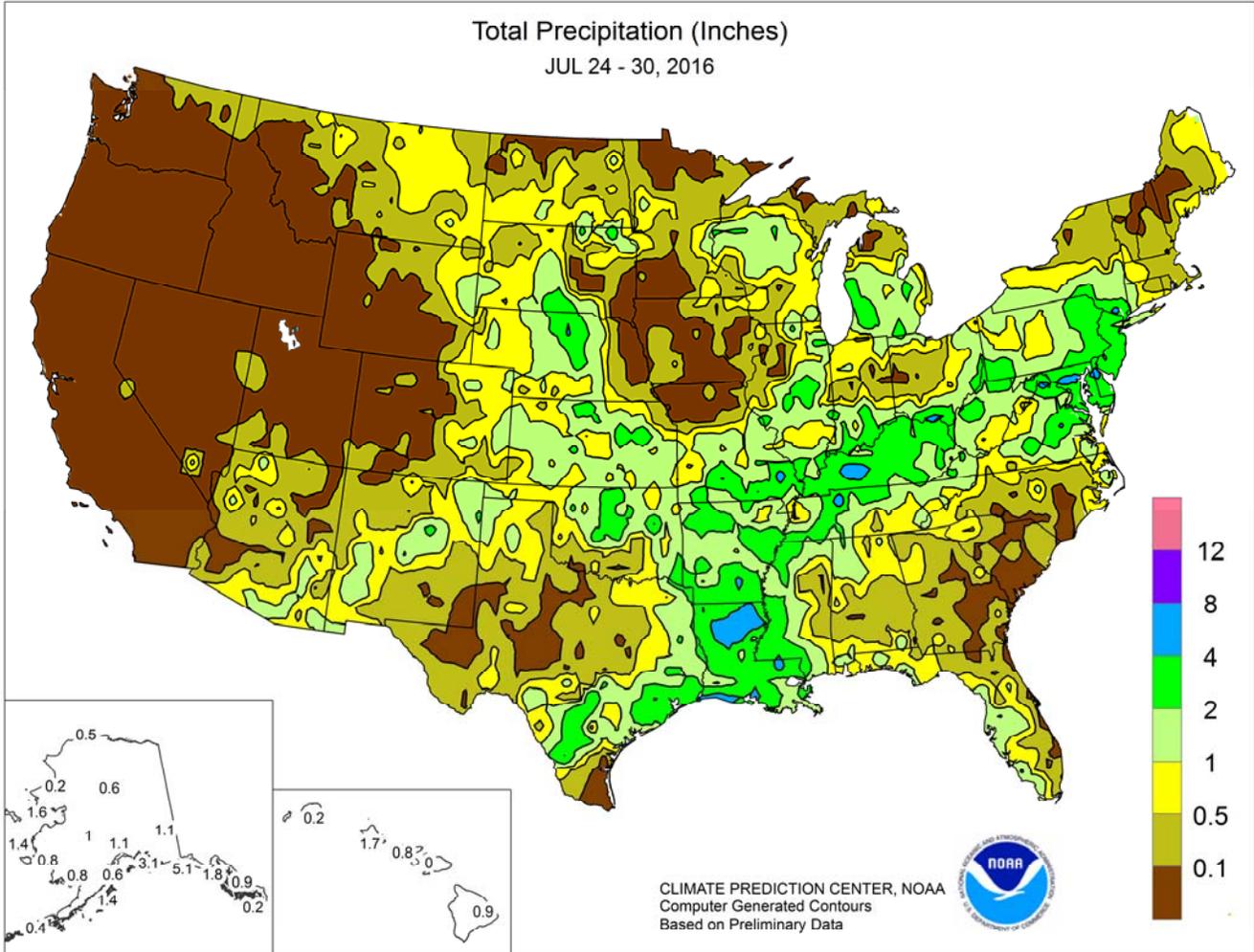


WEEKLY WEATHER AND CROP BULLETIN



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

July 24 – 30, 2016

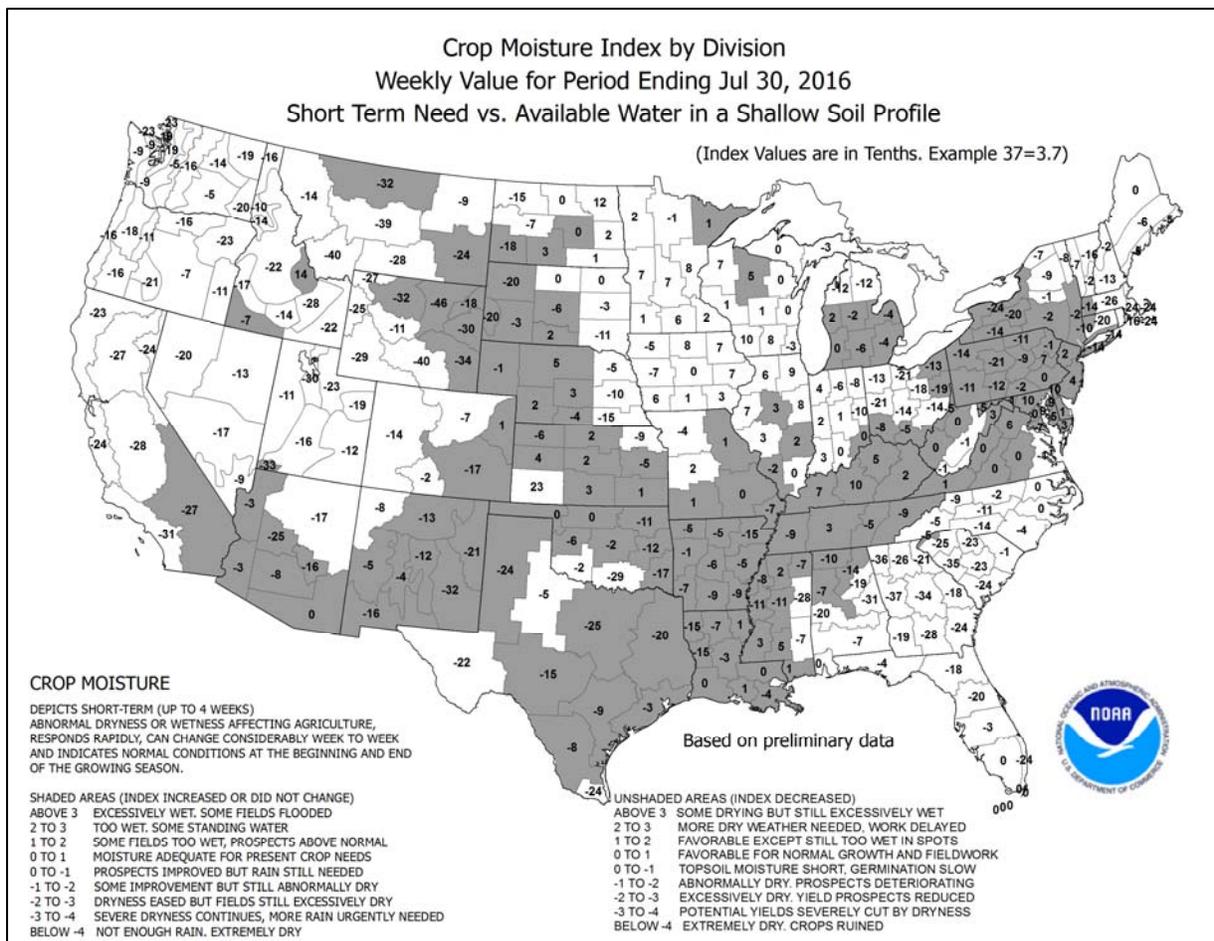
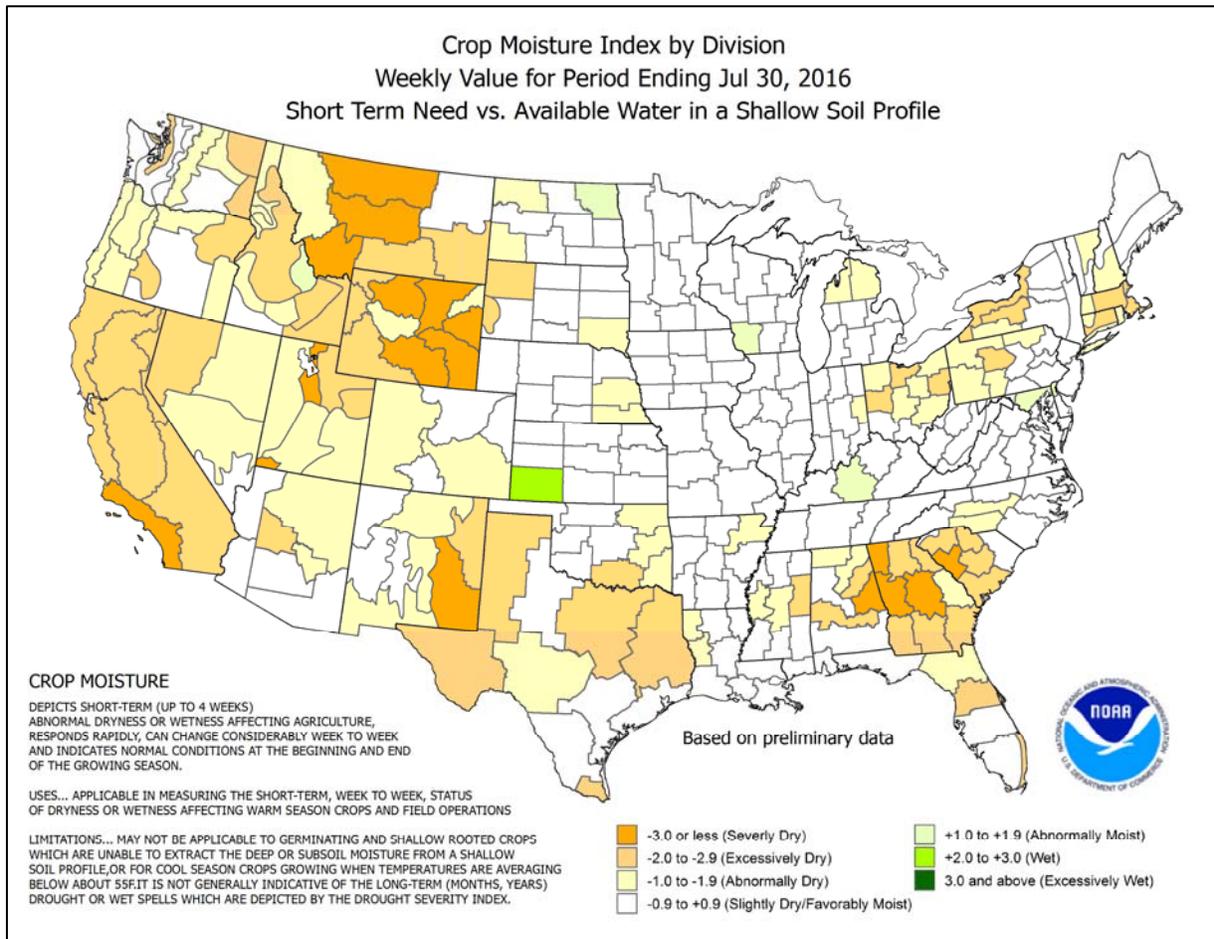
Highlights provided by USDA/WAOB

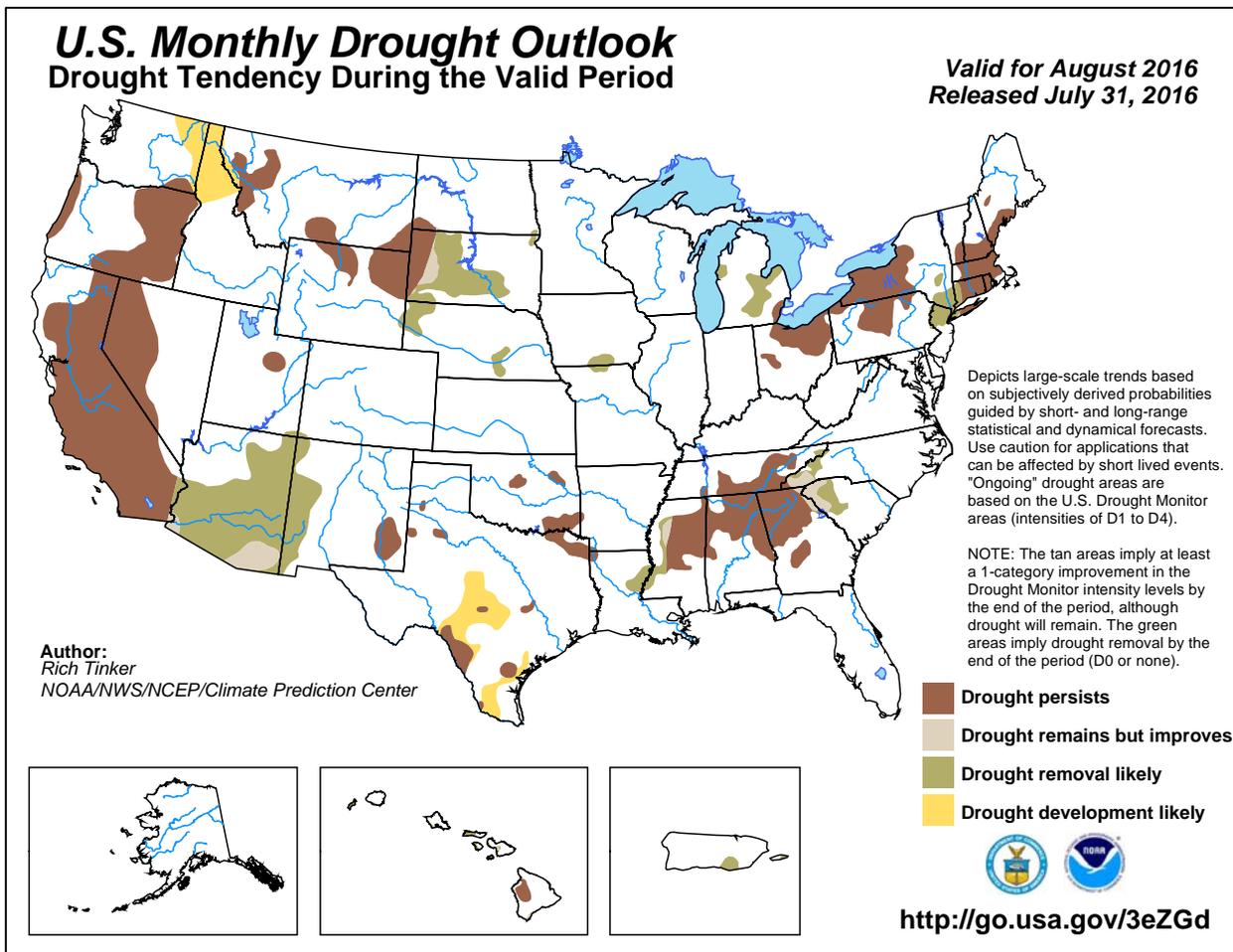
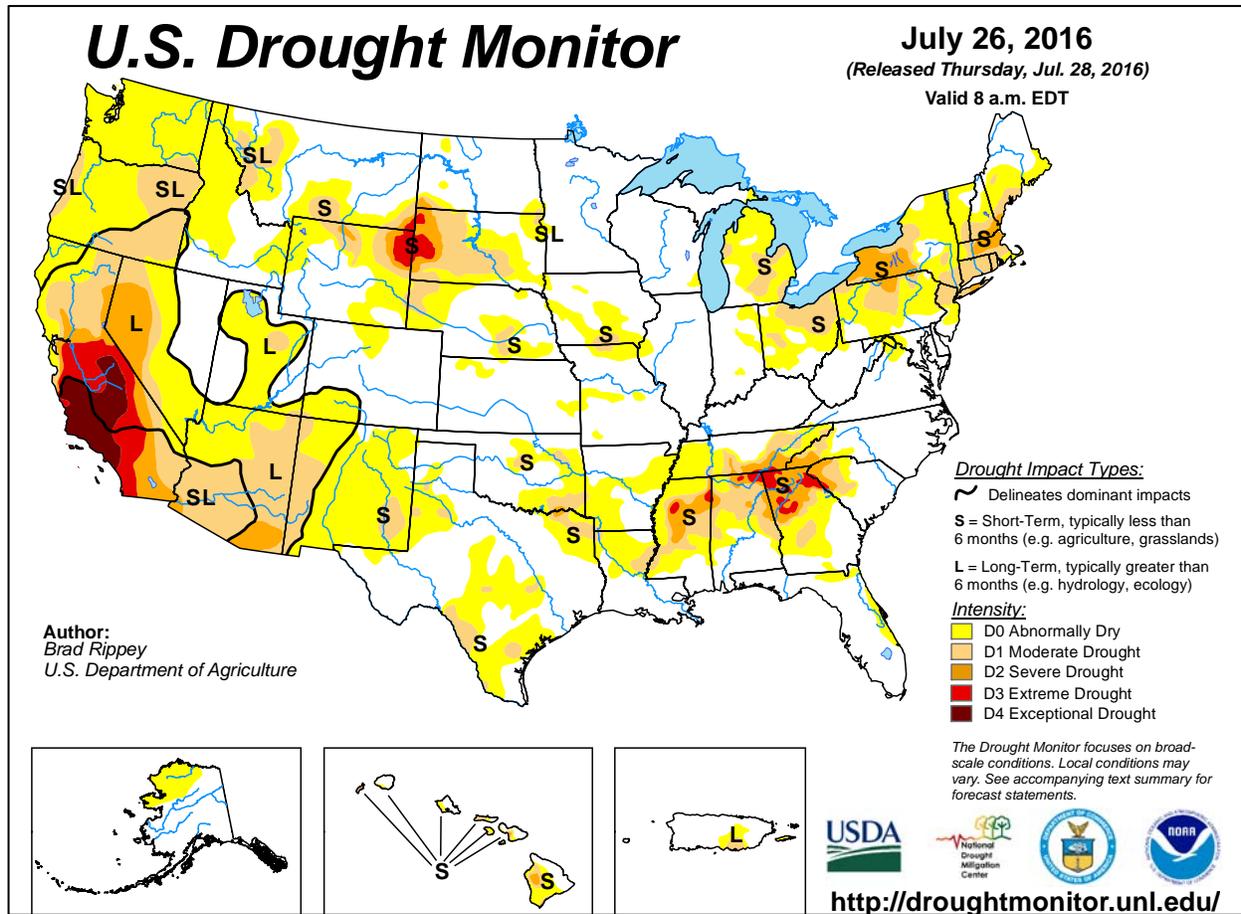
Cooler air overspread the **Plains** and the **upper Midwest**, accompanied by a drying trend in the latter region. Meanwhile, scattered showers and thunderstorms dotted the **Plains** and the **southern and eastern Corn Belt**. In general, **Midwestern** growing conditions were mostly favorable for reproductive to filling corn and soybeans, despite lingering pockets of drought mainly in **Ohio, Michigan, and South Dakota**. Farther south, the interaction between a disturbance arriving from the **Gulf of Mexico** and a cold front contributed to heavy rain

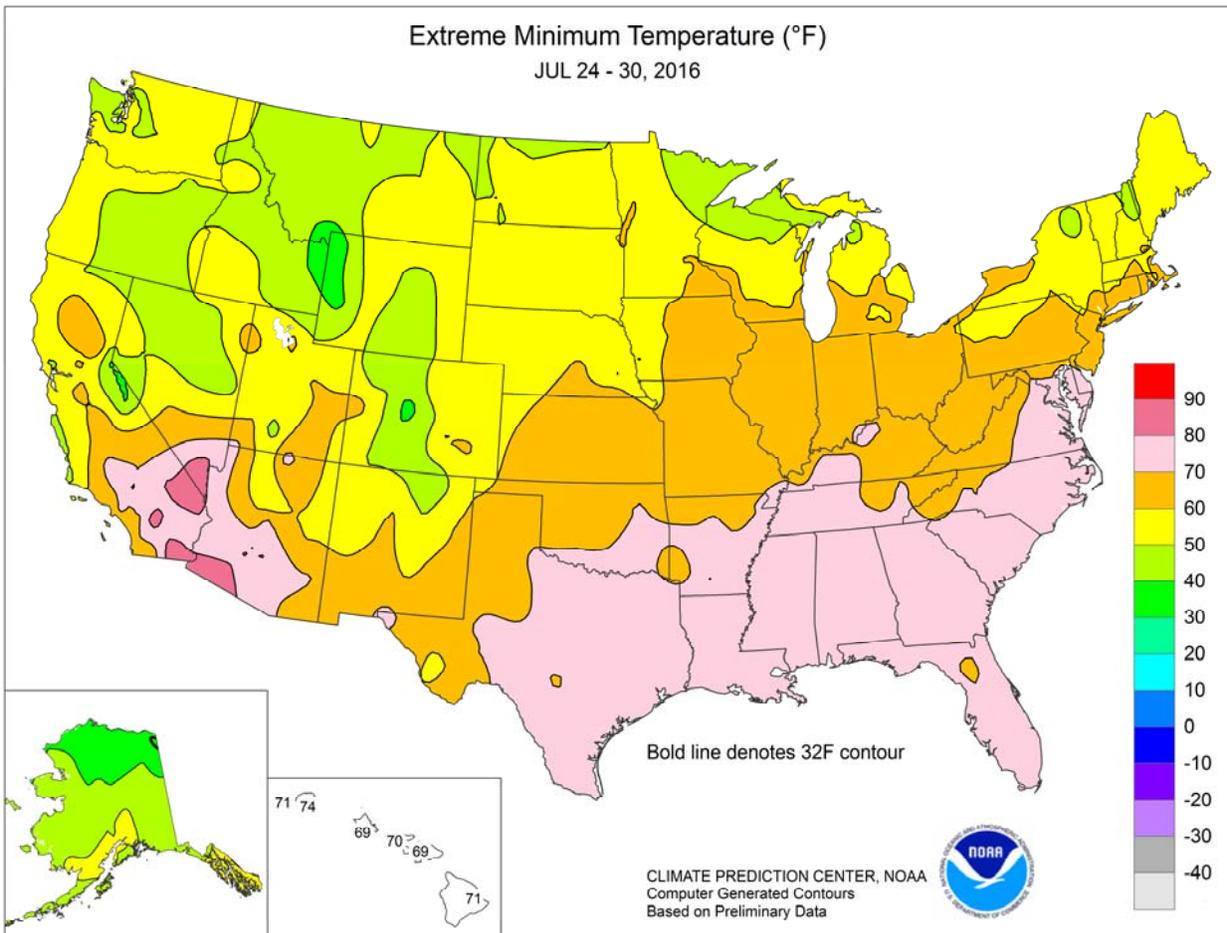
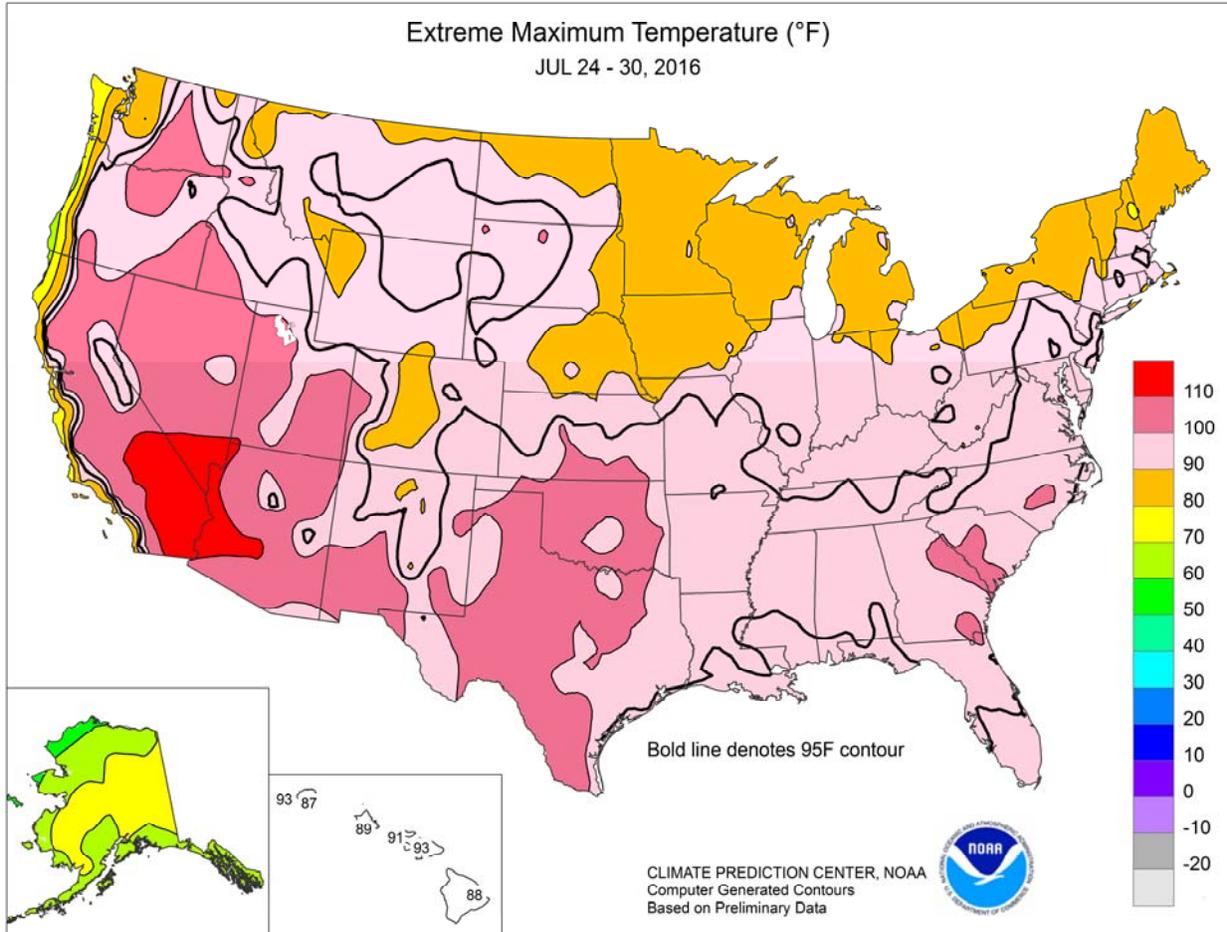
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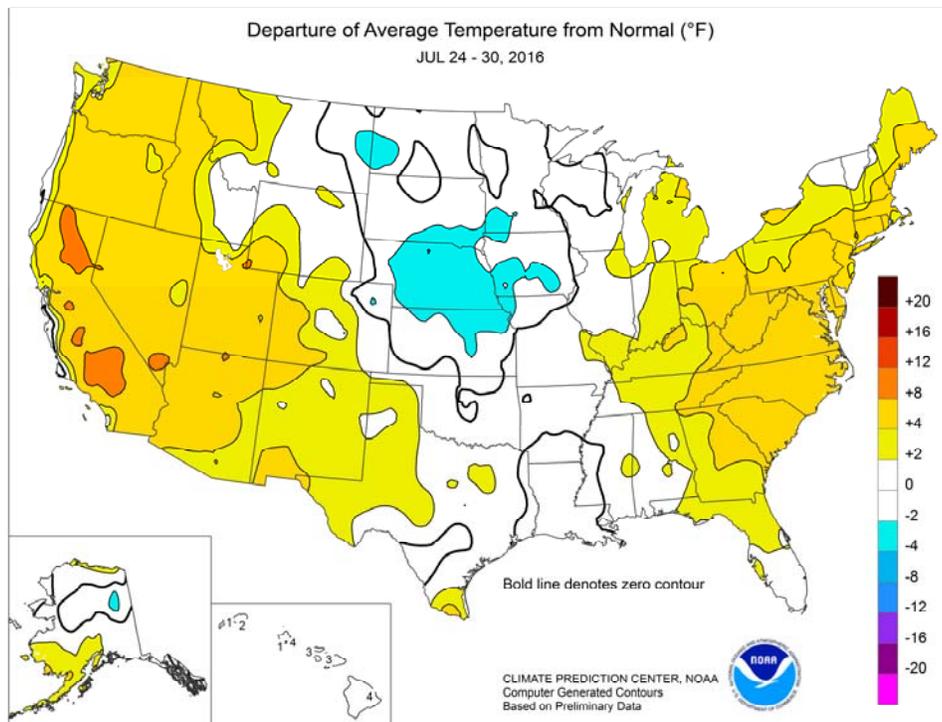


(Continued from front cover)

(locally 2 to 4 inches or more) from the **western Gulf Coast region and the Mississippi Delta into the northern Mid-Atlantic States**. In contrast, hot weather accompanied minimal rainfall across the **lower Southeast**, leading to some drought expansion or intensification. In fact, heat covered much of the **eastern U.S.**, boosting weekly temperatures at least 5°F above normal in many locations. Hot weather also dominated the **West**, where temperatures averaged 5 to 10°F above normal across a broad area. Dry weather accompanied the **Western** heat, except for monsoon-related showers that were heaviest across **Arizona and New Mexico**.

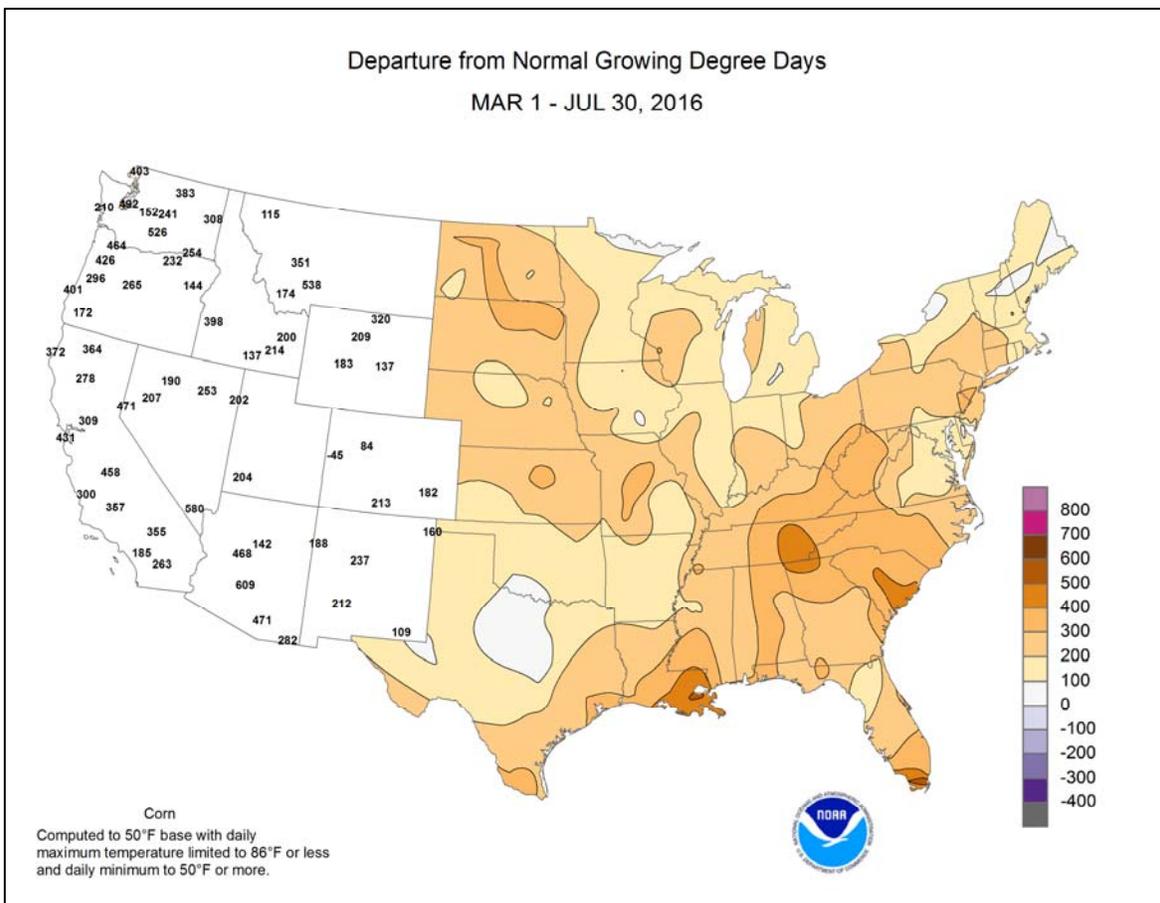
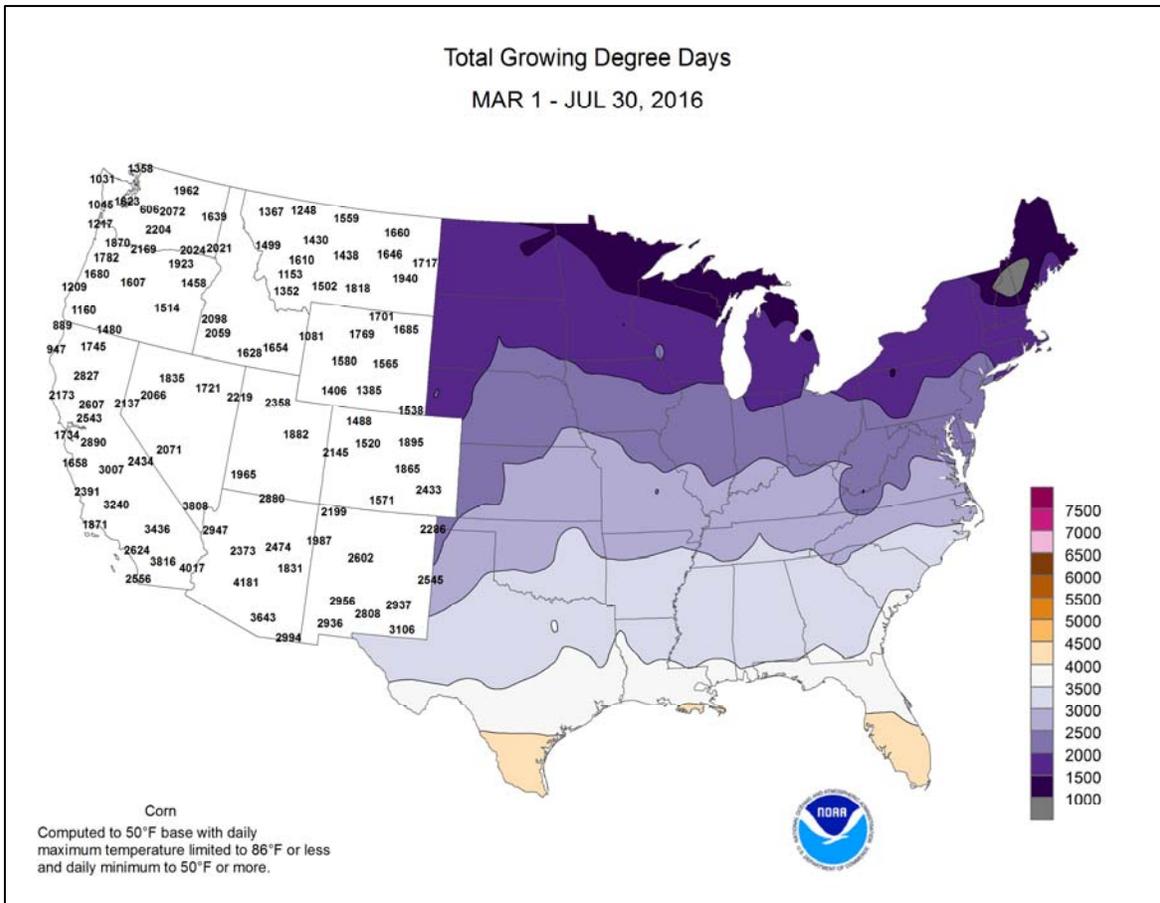
Early-week showers spread from the **lower Great Lakes region into the Northeast**, providing local relief from previously dry conditions. Daily-record rainfall totals for July 24 included 3.27 inches in **Springfield, IL**, and 2.93 inches in **Muskegon, MI**. A day later in the **Northeast**, record-setting totals for July 25 reached 2.47 inches at **New York's JFK Airport**; 1.87 inches in **Trenton, NJ**; and 1.68 inches in **Philadelphia, PA**. Meanwhile, shower coverage and intensity began to increase across the **mid-South**, where **Springfield, MO**, collected a daily-record total (2.08 inches) for July 25. Unsettled weather continued for much of the week across parts of the **South**, with a non-tropical disturbance arriving from the **Gulf of Mexico** helping to focus shower activity. **Springfield, MO**, received another daily-record total (1.74 inches) on July 27. In **Austin, TX**, a 26-day streak (June 29 – July 24) without measurable rainfall ended with a 5.65-inch deluge from July 25-27. The parade of scattered rainfall records continued through week's end; record-setting totals for July 28 reached 2.97 inches in **Monroe, LA**, and 2.80 inches in **Georgetown, DE**. On the evening of July 30, major flooding struck **Ellicott City, MD**, where rainfall totaled 4.56 inches in an hour and 5.92 inches in 2 hours. Farther north, late-month showers slightly dented summer rainfall deficits. June-July rainfall totaled just 2 to 4 inches, and ranged from 30 to 50 percent of normal, in locations such as **Boston, MA** (2.20 inches, or 31 percent of normal); **Manchester, NH** (2.92 inches, or 38 percent); **Worcester, MA** (3.72 inches, or 44 percent); and **Concord, NH** (3.59 inches, or 48 percent). Elsewhere, July 26-31 rainfall in **Arizona** totaled 2.93 inches in **Nogales** and 2.12 inches in **Tucson**. Some of the **Southwestern** thunderstorms were accompanied by high winds, with July 29 evening gusts in **Arizona** clocked to 70 mph in **Phoenix**, 69 mph in **Gila Bend**, and 54 mph in **Tucson**.

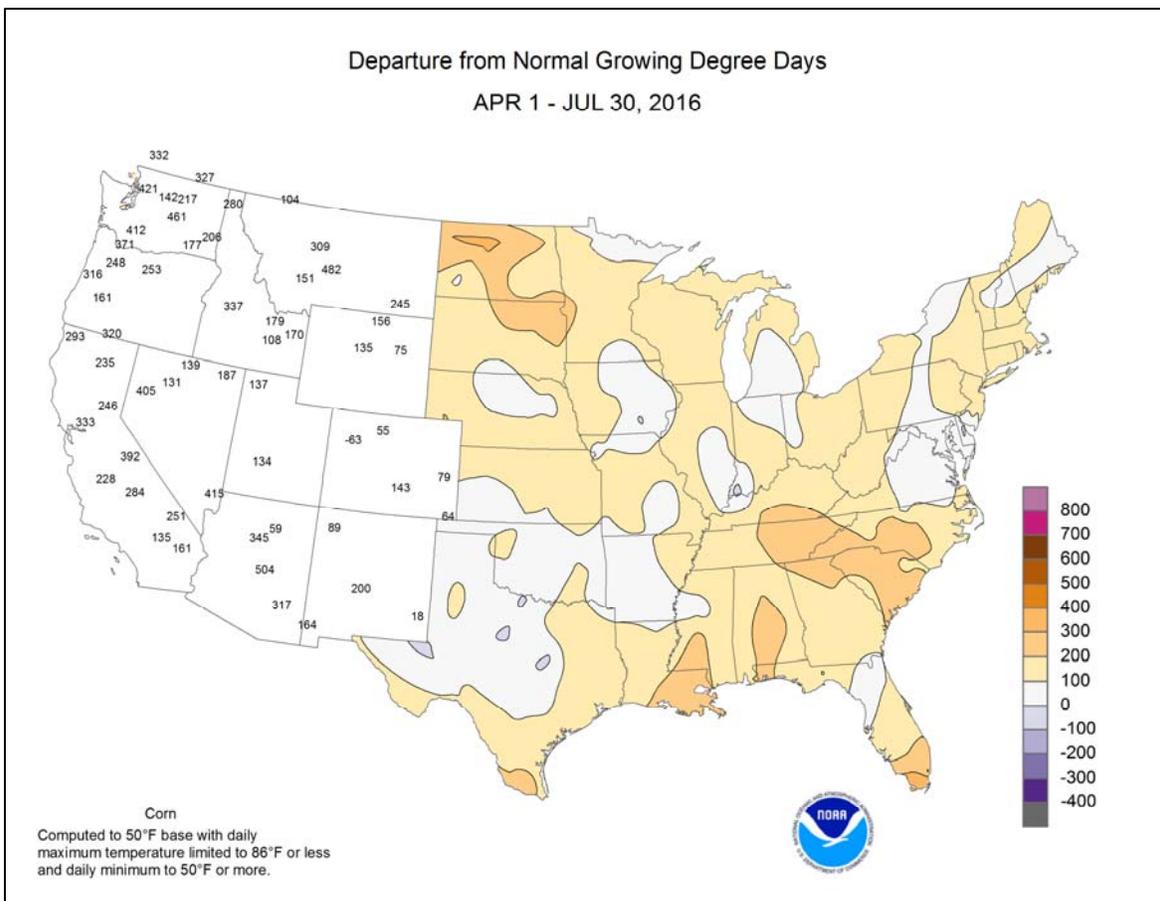
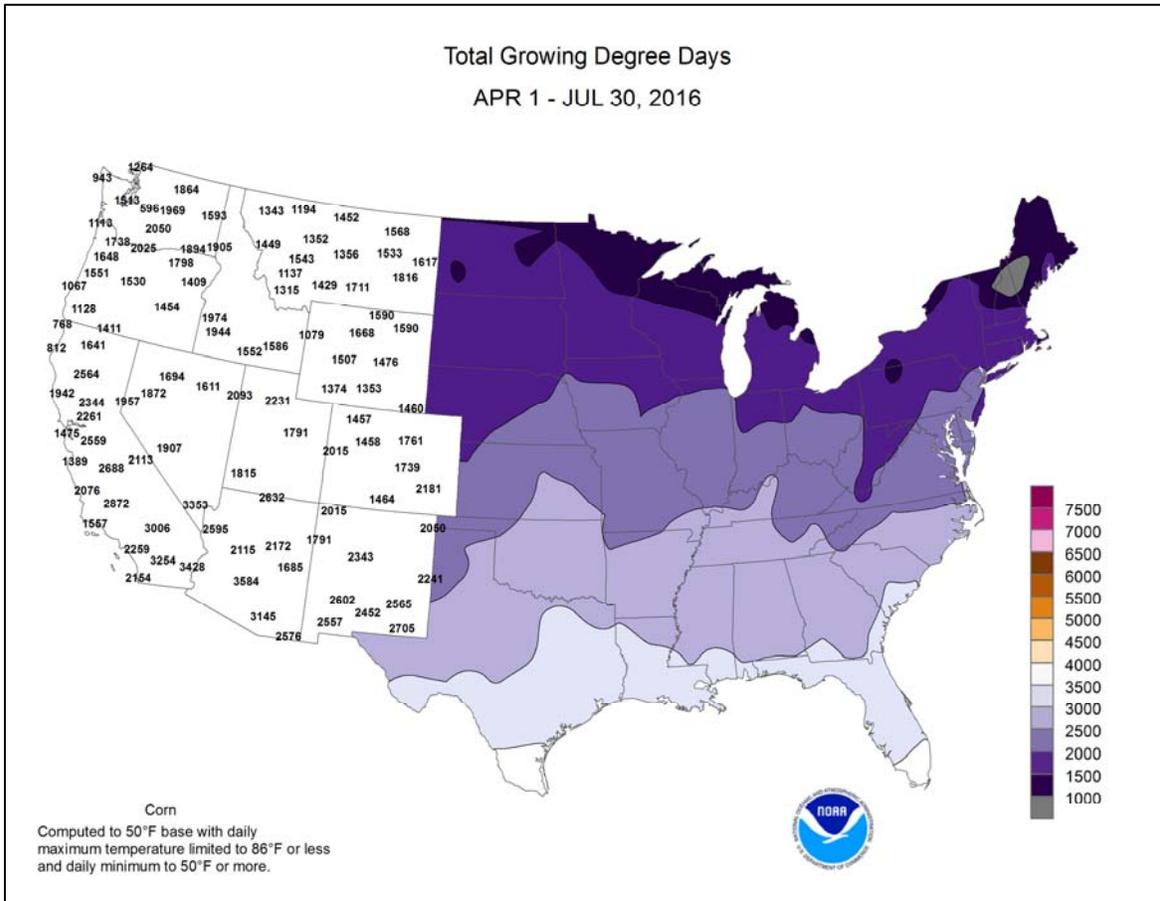
In spite of the monsoon-related showers, hot weather gripped the **Four Corners States** and the remainder of the **West**. Some of the most intense heat occurred at mid-week, when consecutive daily-records highs were noted on July 27-28 in **Needles, CA** (119°F both days), and **Las Vegas, NV** (115°F both days). **Death Valley, CA**, posted a daily record-tying high of 126°F on July 28. **Cortez, CO**, ended the week with four daily-record highs in a row (98, 99, 99, and 97°F) from July 27-30. Triple-digit, daily-record highs were established in **California** locations such as **Lancaster** (110°F on



July 29); **Paso Robles** (109°F on July 29); and **Modesto** (107°F on July 27). Elsewhere in **California**, **Mt. Shasta City** logged a trio of daily-record highs (99, 102, and 102°F) from July 27-29. Farther inland, **Tonopah, NV**, also tallied a trio of records (101, 104, and 102°F) on the same dates. And in **Utah**, **Cedar City** measured consecutive daily-record highs of 101°F on July 27-28. Meanwhile, heat also blanketed the **East**. On July 25, all three **D.C.-area** airports (**BWI, DCA, and IAD**) topped out at 100°F—the first triple-digit heat in those locations since July 2012. In the **Southeast**, scattered triple-digit, daily-record highs included 101°F (on July 25) in **Athens, GA**, and 102°F (on July 26) in **Columbia, SC**. For some **Southeastern** locations, including **West Palm Beach, FL**, and **Charleston, SC**, July 2016 was the hottest month on record. **West Palm Beach's** monthly average temperature of 86.2°F was 3.5°F above normal, toppling the July 2011 standard of 85.7°F. **Charleston's** monthly average temperature was also 86.2°F, 4.1°F above normal, edging the July 1986 record of 86.1°F. Meanwhile in **Texas**, **Midland** cooled a bit toward month's end, but still set July records for the greatest number of days with highs of 105°F or greater (9; previously, 6 in 1995) and 100°F or greater (19; previously, 18 in 1964).

In **Alaska**, a generally wet month drew to a close. In **Fairbanks**, June-July rainfall climbed to 8.26 inches (233 percent of normal), second only to a 9.34-inch total in 2014. **Fairbanks** received 4.97 inches of rain in July alone—230 percent of normal. July rainfall ranged from 150 to 185 percent of normal in locations such as **McGrath** (4.20 inches), **Nome** (3.82 inches), and **King Salmon** (3.52 inches). Significant rain fell late in the month, when daily-record totals included 1.43 inches (on July 29) in **Nome**; 0.77 inch (on July 31) in **Fairbanks**; and 0.68 inch (on July 30) in **Bethel**. Farther south, tranquil weather returned to **Hawaii** in the wake of Tropical Storm Darby's passage. In areas that received heavy rain from Darby, monthly rainfall was above normal. For example, **Honolulu, Oahu**, noted a July total of 2.71 inches (531 percent of normal), of which more than half fell on July 24. At week's end, widespread showers returned to parts of **Oahu** and **Kauai**; **Honolulu** netted a daily-record total of 0.35 inch on July 31.





National Weather Data for Selected Cities

Weather Data for the Week Ending July 30, 2016

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 JUN 1	PCT. NORMAL SINCE JUN 1	TOTAL, IN, SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMP. °F		PRECIP	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	91	75	95	73	83	2	1.34	0.26	1.33	11.04	127	32.65	96	92	54	4	0	2	1
HUNTSVILLE	92	74	99	71	83	3	0.60	-0.31	0.59	9.33	110	27.62	78	84	54	4	0	2	1
MOBILE	91	75	94	73	83	1	1.22	-0.27	0.69	14.10	125	42.26	104	93	65	6	0	4	1
AK MONTGOMERY	96	74	98	72	85	3	0.54	-0.53	0.53	8.34	90	30.71	89	87	46	7	0	2	1
ANCHORAGE	67	57	72	55	62	3	1.26	0.80	0.56	4.17	160	6.33	108	85	71	0	0	5	1
BARROW	49	37	57	33	43	2	0.54	0.32	0.24	1.38	128	2.72	166	89	66	0	0	4	0
FAIRBANKS	70	54	78	52	62	1	1.20	0.81	0.56	7.49	251	9.37	187	92	69	0	0	4	1
JUNEAU	60	54	66	53	57	0	1.77	0.77	0.78	7.30	100	30.09	116	95	87	0	0	6	1
KODIAK	61	53	66	49	57	2	1.35	0.54	0.51	5.94	63	48.71	121	98	86	0	0	5	1
NOME	60	47	67	43	54	1	1.60	1.03	1.34	4.16	134	7.24	107	90	72	0	0	3	1
AZ FLAGSTAFF	85	54	90	51	70	3	1.39	0.72	0.65	3.49	134	10.51	87	89	23	1	0	4	2
PHOENIX	109	87	112	77	98	5	0.53	0.26	0.53	0.90	94	2.78	69	38	28	7	0	1	1
PRESCOTT	96	67	102	63	82	8	0.11	-0.69	0.09	1.10	36	4.88	50	71	19	7	0	2	0
TUCSON	103	77	106	74	90	4	1.44	0.86	0.87	4.23	200	6.76	127	62	35	7	0	4	1
AR FORT SMITH	94	74	100	71	84	1	0.05	-0.56	0.03	5.56	75	22.77	89	86	50	6	0	2	0
LITTLE ROCK	94	77	97	74	85	2	0.74	0.09	0.33	9.14	128	38.33	130	87	52	7	0	3	0
CA BAKERSFIELD	108	78	111	73	93	9	0.00	0.00	0.00	0.00	0	4.10	89	29	16	7	0	0	0
FRESNO	107	73	109	70	90	8	0.00	0.00	0.00	0.06	26	9.08	116	45	27	7	0	0	0
LOS ANGELES	81	68	86	67	74	4	0.00	0.00	0.00	0.00	0	6.00	64	86	67	0	0	0	0
REDDING	108	71	111	67	89	7	0.00	0.00	0.00	2.46	357	30.63	140	48	23	7	0	0	0
SACRAMENTO	101	64	104	60	83	7	0.00	0.00	0.00	0.00	0	12.75	107	63	13	7	0	0	0
SAN DIEGO	78	67	81	64	72	0	0.00	0.00	0.00	0.00	0	5.01	66	93	76	0	0	0	0
SAN FRANCISCO	72	54	81	53	63	0	0.00	0.00	0.00	0.00	0	12.44	93	85	64	0	0	0	0
STOCKTON	104	64	105	59	84	6	0.00	0.00	0.00	0.00	0	12.12	135	61	28	7	0	0	0
CO ALAMOSA	87	51	91	45	69	5	0.00	-0.24	0.00	0.82	58	5.19	145	76	41	2	0	0	0
CO SPRINGS	87	59	92	56	73	3	1.18	0.43	1.17	3.83	77	11.76	110	84	24	3	0	2	1
DENVER INTL	92	61	97	59	77	4	0.00	-0.55	0.00	2.68	71	10.50	118	77	25	5	0	0	0
GRAND JUNCTION	100	66	103	63	83	6	0.00	-0.17	0.00	0.76	79	5.73	117	34	17	7	0	0	0
PUEBLO	96	64	103	61	80	4	0.50	-0.04	0.46	1.83	57	9.01	120	79	37	6	0	2	0
CT BRIDGEPORT	88	72	92	70	80	5	0.93	0.08	0.63	5.77	80	21.31	82	84	52	2	0	3	1
HARTFORD	93	64	96	56	79	5	0.31	-0.52	0.16	3.54	48	17.48	67	77	37	7	0	2	0
DC WASHINGTON	96	78	100	74	87	8	0.73	-0.10	0.33	6.94	105	22.28	98	85	47	7	0	3	0
DE WILMINGTON	91	72	96	68	82	5	2.97	2.04	1.06	9.74	127	27.60	108	92	50	6	0	4	4
FL DAYTONA BEACH	95	74	97	72	84	2	0.00	-1.09	0.00	4.28	40	24.28	93	96	50	7	0	0	0
JACKSONVILLE	97	73	101	70	85	3	0.47	-0.81	0.42	5.17	47	19.63	69	96	42	7	0	2	0
KEY WEST	89	80	91	75	85	0	0.84	0.08	0.46	4.91	64	16.56	88	88	69	4	0	4	0
MIAMI	91	78	93	76	84	0	0.32	-0.92	0.14	12.77	91	33.16	112	84	59	6	0	3	0
ORLANDO	95	75	97	73	85	3	1.45	0.02	1.45	11.71	82	31.80	110	89	46	7	0	1	1
PENSACOLA	89	80	91	77	84	1	0.30	-1.46	0.30	9.87	70	34.13	88	84	66	4	0	1	0
TALLAHASSEE	96	75	98	74	86	4	0.88	-0.91	0.40	16.14	110	39.53	100	91	50	7	0	5	0
TAMPA	91	77	95	73	84	1	3.16	1.69	1.34	16.57	142	32.47	135	90	58	6	0	5	2
GA WEST PALM BEACH	92	79	94	75	85	2	0.09	-1.06	0.08	6.11	46	27.48	85	79	57	6	0	2	0
ATHENS	98	74	101	72	86	6	0.08	-0.89	0.07	4.52	56	19.69	67	88	46	7	0	2	0
ATLANTA	94	74	98	73	84	4	1.04	-0.05	0.51	6.35	74	25.49	82	90	56	6	0	3	1
AUGUSTA	99	73	101	71	86	5	0.15	-0.77	0.15	4.07	50	22.80	84	87	43	7	0	1	0
COLUMBUS	96	74	98	73	85	3	0.01	-1.11	0.01	3.02	36	22.46	73	88	39	7	0	1	0
MACON	97	74	99	73	85	4	0.79	-0.15	0.62	4.20	55	22.16	78	86	40	7	0	2	1
SAVANNAH	98	76	100	74	87	5	0.79	-0.63	0.79	8.17	73	30.84	108	80	43	7	0	1	1
HI HILO	86	73	88	71	80	4	0.92	-1.47	0.40	18.51	105	43.45	61	84	74	0	0	4	0
HONOLULU	85	74	89	69	80	-1	1.68	1.57	1.56	2.55	300	6.60	68	79	72	0	0	2	1
KAHULUI	90	74	93	69	82	3	0.04	-0.07	0.03	1.71	271	9.44	82	83	72	4	0	2	0
LIHUE	86	76	87	74	81	2	0.25	-0.23	0.14	2.66	70	9.09	43	86	78	0	0	3	0
ID BOISE	99	65	101	57	82	6	0.00	-0.04	0.00	0.46	43	4.98	66	38	23	7	0	0	0
LEWISTON	99	65	102	56	82	7	0.00	-0.14	0.00	2.58	143	9.39	119	50	28	7	0	0	0
POCATELLO	96	53	98	46	74	3	0.00	-0.14	0.00	0.19	13	7.00	91	51	21	7	0	0	0
IL CHICAGO/O'HARE	86	70	93	68	78	4	1.71	0.88	0.94	9.08	131	22.71	113	86	62	1	0	3	2
MOLINE	87	68	92	65	78	2	0.14	-0.75	0.14	11.35	134	21.35	95	87	59	1	0	1	0
PEORIA	87	70	93	67	79	4	0.01	-0.83	0.01	8.45	110	17.56	82	94	62	1	0	1	0
ROCKFORD	86	69	98	65	77	4	0.94	0.09	0.94	8.09	93	20.15	94	85	61	1	0	1	1
SPRINGFIELD	87	70	94	64	79	3	4.24	3.47	3.11	11.44	161	25.03	119	94	60	1	0	4	2
IN EVANSVILLE	89	73	92	70	81	2	2.53	1.75	1.55	13.56	176	35.31	128	94	70	3	0	4	2
FORT WAYNE	88	66	91	61	77	4	0.46	-0.31	0.36	6.56	88	20.75	96	91	51	1	0	3	0
INDIANAPOLIS	88	71	92	68	80	5	0.29	-0.69	0.16	10.19	122	27.69	112	88	55	3	0	2	0
SOUTH BEND	85	65	89	61	75	2	0.66	-0.11	0.50	6.33	82	21.44	97	95	66	0	0	3	1
IA BURLINGTON	84	67	92	64	76	0	0.07	-0.88	0.04	7.54	86	18.39	81	98	64	1	0	2	0
CEDAR RAPIDS	83	64	89	61	74	-1	0.11	-0.77	0.10	12.19	145	22.71	115	100	66	0	0	2	0
DES MOINES	84	69	90	65	77	1	0.00	-0.94	0.00	8.46	99	19.70							

Weather Data for the Week Ending July 30, 2016

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 JUN 1	PCT. NORMAL SINCE JUN 1	TOTAL IN. SINCE JAN01	PCT. NORMAL SINCE JAN01	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMP. °F		PRECIP		
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE	
WICHITA	93	72	101	68	83	1	1.27	0.60	1.03	12.50	168	28.06	150	86	56	5	0	4	1	
KY JACKSON	88	70	94	68	79	4	2.04	1.04	0.80	11.36	125	34.16	115	96	62	4	0	5	2	
LEXINGTON	89	72	95	70	80	4	2.05	1.01	1.46	9.54	104	28.47	99	92	61	4	0	3	2	
LOUISVILLE	91	75	95	73	83	4	1.16	0.21	0.45	8.53	108	27.59	100	89	53	4	0	5	0	
PADUCAH	91	73	93	69	82	4	1.29	0.44	1.20	9.03	102	33.23	110	94	61	5	0	3	1	
LA BATON ROUGE	92	74	97	72	83	1	3.04	1.72	0.92	13.87	126	44.07	115	92	55	6	0	6	4	
LAKE CHARLES	92	75	96	73	83	0	1.03	0.01	0.73	11.86	108	42.18	128	95	59	6	0	3	1	
NEW ORLEANS	92	79	96	76	86	3	0.93	-0.29	0.57	14.25	111	43.57	111	87	68	5	0	5	1	
SHREVEPORT	94	74	99	73	84	0	1.84	1.09	0.68	8.31	93	42.54	135	96	58	6	0	3	2	
ME CARIBOU	81	60	84	56	70	4	1.23	0.31	0.77	9.29	133	25.21	123	94	55	0	0	3	1	
ME PORTLAND	85	64	90	61	75	6	0.37	-0.35	0.37	6.08	94	21.59	83	90	46	1	0	1	0	
MD BALTIMORE	94	73	100	70	84	7	2.86	1.99	1.80	9.28	131	27.12	111	86	48	6	0	3	2	
MA BOSTON	88	71	94	67	80	6	0.06	-0.60	0.06	2.05	34	18.39	77	81	47	4	0	1	0	
MA WORCESTER	87	66	90	64	77	6	0.34	-0.60	0.27	3.52	44	19.23	69	86	38	1	0	2	0	
MI ALPENA	85	59	92	52	72	5	0.50	-0.26	0.48	3.93	71	18.71	119	88	40	2	0	2	0	
MI GRAND RAPIDS	83	65	88	61	74	2	3.15	2.43	1.54	5.93	84	22.94	114	89	58	0	0	4	2	
MI HOUGHTON LAKE	82	60	86	54	71	4	0.42	-0.22	0.21	5.74	104	19.81	130	88	55	0	0	3	0	
MI LANSING	84	64	89	61	74	3	1.07	0.55	0.88	3.99	65	16.90	97	85	60	0	0	3	1	
MI MUSKOGON	84	65	88	63	75	4	4.63	4.07	2.93	8.06	170	22.00	131	92	63	0	0	4	2	
MI TRAVERSE CITY	85	64	91	53	74	4	0.18	-0.45	0.07	4.17	66	15.76	87	87	44	1	0	4	0	
MN DULUTH	77	57	83	49	67	1	0.07	-0.80	0.03	8.87	107	18.98	112	93	58	0	0	3	0	
MN INT'L FALLS	79	56	84	47	68	1	0.01	-0.65	0.01	9.35	129	17.13	126	92	50	0	0	1	0	
MN MINNEAPOLIS	83	67	91	61	75	1	0.48	-0.40	0.48	9.61	117	18.53	106	83	55	1	0	1	0	
MN ROCHESTER	80	63	86	62	72	2	0.20	-0.82	0.12	10.89	130	22.58	122	96	68	0	0	4	0	
MN ST. CLOUD	81	59	87	51	70	0	0.08	-0.62	0.08	10.11	131	16.48	105	100	55	0	0	1	0	
MS JACKSON	90	73	95	71	82	0	1.90	0.88	1.20	11.23	135	43.67	125	93	62	5	0	5	2	
MS MERIDIAN	94	74	98	72	84	2	1.02	-0.12	0.51	7.33	79	32.32	85	89	54	6	0	4	1	
MS TUPELO	93	75	97	72	84	3	0.32	-0.38	0.24	8.46	101	30.56	87	87	59	6	0	3	0	
MO COLUMBIA	88	70	95	65	79	1	1.63	0.80	1.47	11.59	152	21.73	91	96	62	2	0	2	1	
MO KANSAS CITY	88	69	93	62	78	-1	0.00	-0.92	0.00	8.67	100	29.20	130	87	51	2	0	0	0	
MO SAINT LOUIS	92	75	101	71	84	3	1.52	0.72	1.21	8.84	118	21.88	94	82	61	5	0	3	1	
MO SPRINGFIELD	89	72	98	68	81	2	3.99	3.39	2.09	11.65	137	22.90	89	89	69	2	0	3	2	
MT BILLINGS	90	60	97	57	75	2	0.29	0.06	0.21	0.68	22	6.08	62	70	25	4	0	2	0	
MT BUTTE	85	44	89	40	65	1	0.02	-0.28	0.02	1.87	54	5.40	65	74	16	0	0	1	0	
MT CUT BANK	85	52	91	49	68	4	0.57	0.26	0.24	2.62	66	7.10	86	87	28	1	0	4	0	
MT GLASGOW	85	59	93	56	72	0	0.75	0.41	0.67	6.63	170	14.91	200	85	51	2	0	3	1	
MT GREAT FALLS	90	52	97	48	71	3	0.00	-0.31	0.00	2.16	60	8.18	84	80	19	3	0	0	0	
MT HAVRE	87	57	94	51	72	2	0.33	0.03	0.33	4.36	131	12.25	162	91	44	2	0	1	0	
MT MISSOULA	93	54	95	48	73	5	0.00	-0.22	0.00	2.82	103	7.95	93	71	32	6	0	0	0	
NE GRAND ISLAND	86	63	89	61	74	-2	1.76	1.07	1.67	4.01	60	18.69	112	91	57	0	0	3	1	
NE LINCOLN	86	65	89	60	76	-2	0.17	-0.63	0.14	4.96	72	17.27	98	89	58	0	0	2	0	
NE NORFOLK	84	60	86	57	72	-3	0.06	-0.69	0.06	5.97	76	22.42	127	92	54	0	0	1	0	
NE NORTH PLATTE	85	61	88	56	73	-2	1.09	0.41	1.09	7.10	115	18.28	134	94	54	0	0	1	1	
NE OMAHA	86	67	89	60	76	-1	0.00	-0.81	0.00	7.54	99	20.53	110	88	55	0	0	0	0	
NE SCOTTSBLUFF	89	60	95	57	75	1	0.33	-0.06	0.32	1.88	40	10.99	96	88	52	4	0	2	0	
NE VALENTINE	87	59	94	56	73	-2	1.25	0.53	1.18	6.95	112	20.87	157	86	47	2	0	4	1	
NV ELY	95	48	98	42	72	3	0.12	-0.04	0.12	1.73	149	8.53	145	39	13	7	0	1	0	
NV LAS VEGAS	112	89	115	85	101	9	0.00	-0.11	0.00	0.66	153	3.51	130	22	14	7	0	0	0	
NV RENO	100	62	103	57	81	9	0.00	-0.03	0.00	0.00	0	5.21	114	36	16	7	0	0	0	
NV WINNEMUCCA	101	54	104	46	77	4	0.00	-0.03	0.00	0.01	1	4.58	90	30	13	7	0	0	0	
NH CONCORD	91	61	95	56	76	5	0.28	-0.46	0.28	3.40	54	16.13	77	89	35	4	0	1	0	
NJ NEWARK	93	73	99	70	83	5	3.07	2.01	1.84	7.77	99	22.98	84	83	44	6	0	4	2	
NM ALBUQUERQUE	95	68	99	62	81	3	0.95	0.60	0.45	1.31	74	2.50	57	62	21	7	0	3	0	
NY ALBANY	87	65	91	59	76	4	0.70	-0.06	0.62	6.20	88	16.95	78	89	44	2	0	3	1	
NY BINGHAMTON	83	63	90	60	73	4	1.54	0.84	0.86	5.20	73	17.99	81	86	53	1	0	2	2	
NY BUFFALO	84	67	89	65	76	5	1.04	0.37	1.04	3.11	46	14.35	66	81	51	0	0	1	1	
NY ROCHESTER	86	66	91	63	76	5	0.29	-0.33	0.29	2.12	35	13.73	74	82	51	1	0	1	0	
NY SYRACUSE	84	63	87	60	74	3	1.32	0.50	1.29	4.60	61	19.36	88	94	52	0	0	2	1	
NC ASHEVILLE	90	68	92	67	79	6	0.68	-0.18	0.60	6.91	86	21.79	77	88	46	5	0	2	1	
NC CHARLOTTE	97	75	99	72	86	6	0.00	-0.85	0.00	4.37	62	19.66	77	80	39	7	0	0	0	
NC GREENSBORO	96	74	98	73	85	7	0.46	-0.50	0.46	6.55	84	25.52	99	87	40	7	0	1	0	
NC HATTERAS	88	78	90	76	83	4	0.13	-1.14	0.07	12.51	148	46.57	153	91	74	1	0	2	0	
NC RALEIGH	95	75	97	74	85	6	0.16	-0.79	0.13	14.00	186	33.60	131	86	54	7	0	2	0	
NC WILMINGTON	95	78	98	76	87	6	0.00	-1.74	0.00	11.08	88	33.76	104	92	50	7	0	0	0	
ND BISMARCK	84	61	95	57	72	0	1.21	0.66	1.21	9.53	189	16.71	159	93	60	1	0	1	1	
ND DICKINSON	80	53	93	50	67	-4	0.88	0.55	0.72	6.54	122	11.27	103	95	42	1	0	2	1	
ND FARGO	83	62	91	57	73	1	1.36	0.78	1.34	8.43	134	13.90	109	87	50	1	0	2	1	
ND GRAND FORKS	83	59	90	51	71	1	0.10	-0.56	0.07	8.60	145	15.49	134	91	48	1	0	2	0	
ND JAMESTOWN	81	60	90	55	70	-2	0.03	-0.64	0.02	6.36	104	12.27	105	96	53	1	0	2	0	
ND WILLISTON	84	56	92	50	70	-1	0.07	-0.37	0.04	5.22	115	10.29	113	88	43	2	0	2	0	
OH AKRON-CANTON	87	69	90	66	78	6	0.39	-0.49	0.32	5.32	72	19.99	88	85	54	3	0	3	0	
OH CINCINNATI	89	72	94	70	80	3	2.49	1.66	1.46	7.56	94	27.17	104	98	66	2	0	4	2	
OH CLEVELAND	88	68	92	64	78	6	0.15	-0.57	0.13	3.84	53	19.77	91	81	45	3	0	2	0	
OH COLUMBUS	88	71	94	65	80	5	0.16	-0.83	0.13	7.77	92	22.50	97	90	58	3	0	2	0	
OH DAYTON	88	71	92	68	79	5	0.48	-0.32	0.48	6.34	81	22.55	93	92	53	2	0	1	0	
OH MANSFIELD	88	67	91	63	77	6	0.07	-0.87	0.07	3.83	45	20.23	80	94	49	3	0	1	0	

Based on 1971-2

Weather Data for the Week Ending July 30, 2016

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 JUN 1	PCT. NORMAL SINCE JUN 1	TOTAL IN., SINCE JAN 01	PCT. NORMAL SINCE JAN 01	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	PRECIP	
																		.01 INCH OR MORE	.50 INCH OR MORE
OK TOLEDO	86	66	89	62	76	3	0.53	-0.03	0.33	4.66	72	18.42	95	93	65	0	0	4	0
OK YOUNGSTOWN	85	63	88	60	74	4	1.26	0.45	0.86	6.94	88	22.04	100	92	59	0	0	3	1
OK OKLAHOMA CITY	93	71	100	67	82	-1	2.22	1.67	1.14	6.96	93	19.37	89	94	50	6	0	4	1
OR TULSA	94	76	101	71	85	1	1.77	1.22	1.09	4.54	60	18.39	74	88	61	6	0	2	2
OR ASTORIA	71	58	74	52	64	3	0.01	-0.13	0.01	3.13	85	40.36	110	88	75	0	0	1	0
OR BURNS	96	50	99	42	73	6	0.00	-0.08	0.00	0.54	53	4.39	68	54	19	7	0	0	0
OR EUGENE	91	54	98	51	72	5	0.00	-0.08	0.00	1.03	49	20.96	74	85	50	4	0	0	0
OR MEDFORD	100	63	104	58	81	7	0.00	-0.06	0.00	1.02	109	10.00	101	61	23	7	0	0	0
OR PENDLETON	97	61	103	53	79	5	0.00	-0.08	0.00	1.73	150	7.32	99	55	28	7	0	0	0
OR PORTLAND	88	60	94	57	74	5	0.00	-0.11	0.00	2.08	92	21.82	108	80	58	2	0	0	0
OR SALEM	91	58	97	54	74	6	0.00	-0.06	0.00	1.45	73	21.74	99	81	51	3	0	0	0
PA ALLENTOWN	91	67	95	64	79	5	4.14	3.18	1.74	7.50	93	24.23	94	87	51	5	0	4	3
PA ERIE	84	67	89	64	75	2	1.21	0.54	0.82	6.19	83	19.96	90	84	65	0	0	3	1
PA MIDDLETOWN	91	71	97	68	81	5	1.68	0.92	0.81	9.56	131	26.75	112	96	55	5	0	5	1
PA PHILADELPHIA	93	74	97	73	84	6	2.67	1.69	1.68	5.75	77	23.75	95	86	47	5	0	4	1
PA PITTSBURGH	86	68	93	64	77	4	1.61	0.80	0.85	6.14	77	19.76	86	89	53	3	0	4	1
PA WILKES-BARRE	91	66	95	63	79	6	3.16	2.44	2.61	5.67	75	18.49	85	91	42	6	0	4	2
PA WILLIAMSPORT	92	66	98	63	79	6	1.92	1.14	1.39	7.55	90	19.49	80	84	40	5	0	2	2
RI PROVIDENCE	88	69	92	68	79	5	0.17	-0.55	0.17	4.99	78	23.13	87	81	50	3	0	1	0
SC BEAUFORT	99	78	102	76	89	7	0.00	-1.32	0.00	5.39	48	23.78	85	85	40	7	0	0	0
SC CHARLESTON	97	79	99	75	88	6	0.23	-1.13	0.23	7.46	63	28.21	96	85	46	7	0	1	0
SC COLUMBIA	100	77	102	74	89	7	0.23	-1.01	0.23	4.15	40	18.07	61	74	39	7	0	1	0
SC GREENVILLE	93	73	97	72	83	4	1.80	0.73	0.87	6.14	74	23.67	78	90	47	7	0	3	2
SD ABERDEEN	84	61	93	56	72	-1	0.87	0.28	0.87	5.10	81	12.04	92	88	63	1	0	1	1
SD HURON	86	60	90	55	73	-1	0.01	-0.55	0.01	2.93	49	11.74	84	87	44	1	0	1	0
SD RAPID CITY	86	58	92	52	72	-1	1.04	0.63	0.91	3.18	67	7.82	68	88	40	3	0	4	1
SD SIOUX FALLS	82	61	86	53	72	-2	0.00	-0.63	0.00	4.06	65	15.55	103	84	53	0	0	0	0
TN BRISTOL	93	69	98	67	81	7	1.31	0.44	0.75	4.17	52	21.08	80	95	43	5	0	5	1
TN CHATTANOOGA	94	75	98	73	84	4	0.95	-0.02	0.52	3.39	40	20.63	62	85	49	6	0	3	1
TN KNOXVILLE	93	73	97	70	83	5	1.00	0.03	0.89	8.96	104	28.23	91	90	46	6	0	3	1
TN MEMPHIS	93	76	97	72	84	1	3.93	3.11	1.70	9.18	109	44.27	132	88	58	6	0	5	4
TN NASHVILLE	92	74	97	73	83	4	0.94	0.15	0.76	10.35	134	24.79	85	89	53	4	0	2	1
TX ABILENE	97	74	100	71	86	2	0.24	-0.12	0.17	3.77	81	21.57	170	76	41	7	0	3	0
TX AMARILLO	95	65	100	60	80	2	1.99	1.40	1.59	4.92	84	10.81	90	82	34	7	0	3	1
TX AUSTIN	95	74	100	71	85	0	5.65	5.23	4.18	8.32	147	36.61	190	94	63	7	0	3	2
TX BEAUMONT	92	75	97	73	83	0	4.94	3.93	2.77	17.78	152	47.28	139	97	60	5	0	4	3
TX BROWNSVILLE	96	79	97	77	88	4	0.00	-0.30	0.00	3.16	68	13.15	105	91	52	7	0	0	0
TX CORPUS CHRISTI	95	79	97	77	87	3	0.00	-0.41	0.00	2.95	54	21.17	131	92	57	7	0	0	0
TX DEL RIO	98	76	104	73	87	1	0.05	-0.34	0.05	2.98	70	11.59	108	84	52	7	0	1	0
TX EL PASO	99	76	106	73	88	5	0.11	-0.24	0.11	0.57	25	1.21	31	53	21	7	0	1	0
TX FORT WORTH	98	79	100	77	89	3	0.03	-0.47	0.03	6.83	131	23.59	113	77	41	7	0	1	0
TX GALVESTON	90	79	92	73	84	-1	2.93	2.24	2.16	11.34	154	31.87	138	91	68	6	0	3	2
TX HOUSTON	94	76	100	73	85	1	0.36	-0.26	0.24	14.23	169	43.18	159	93	64	6	0	2	0
TX LUBBOCK	97	69	100	66	83	3	0.00	-0.41	0.00	1.62	32	6.89	65	73	34	7	0	0	0
TX MIDLAND	99	74	102	71	86	4	0.24	-0.17	0.12	3.43	99	7.17	95	74	38	7	0	2	0
TX SAN ANGELO	99	72	102	70	86	3	0.00	-0.22	0.00	7.02	198	22.65	202	79	41	7	0	0	0
TX SAN ANTONIO	94	74	99	73	84	-1	0.34	-0.06	0.18	2.74	44	24.56	130	90	48	5	0	2	0
TX VICTORIA	95	75	99	74	85	0	0.62	0.11	0.50	3.84	49	24.06	106	97	72	6	0	4	1
TX WACO	98	77	103	74	88	2	0.14	-0.32	0.08	4.73	91	27.38	141	85	45	7	0	2	0
TX WICHITA FALLS	99	73	101	71	86	0	0.10	-0.19	0.10	5.11	98	21.60	129	84	42	7	0	1	0
UT SALT LAKE CITY	101	72	104	64	87	9	0.00	-0.17	0.00	0.52	37	8.17	81	35	12	7	0	0	0
VT BURLINGTON	84	63	90	59	73	2	0.02	-0.86	0.01	6.10	85	16.95	86	85	45	1	0	2	0
VA LYNCHBURG	92	70	95	69	81	6	4.49	3.56	3.23	12.28	153	31.93	123	98	58	5	0	4	2
VA NORFOLK	96	79	101	75	87	8	0.57	-0.63	0.57	8.41	97	30.64	113	85	55	7	0	1	1
VA RICHMOND	92	74	96	72	83	5	1.12	0.04	0.53	12.22	153	32.85	128	91	62	5	0	3	1
VA ROANOKE	93	72	98	70	83	7	2.40	1.52	1.21	10.67	142	28.40	111	91	50	6	0	6	2
WA WASH/DULLES	94	73	100	71	83	7	1.68	0.91	1.01	9.37	125	27.03	111	86	48	6	0	5	1
WA OLYMPIA	85	53	92	49	69	5	0.00	-0.11	0.00	1.86	72	27.24	99	90	58	2	0	0	0
WA QUILLAYUTE	69	53	75	47	61	2	0.01	-0.49	0.01	5.69	99	57.52	103	99	80	0	0	1	0
WA SEATTLE-TACOMA	83	59	89	56	71	5	0.00	-0.11	0.00	2.50	113	23.57	120	90	61	0	0	0	0
WA SPOKANE	92	64	97	57	78	8	0.00	-0.14	0.00	0.78	42	8.64	90	58	21	6	0	0	0
WA YAKIMA	100	67	104	56	83	13	0.00	-0.03	0.00	0.46	58	5.91	131	52	27	7	0	0	0
WV BECKLEY	85	66	91	64	76	5	1.06	0.02	0.62	13.76	162	32.79	126	92	65	1	0	5	1
WV CHARLESTON	88	71	96	69	80	6	2.03	0.95	1.02	9.47	108	29.37	110	95	61	2	0	3	2
WV ELKINS	87	67	92	64	77	7	1.04	-0.01	0.84	9.38	101	27.80	99	93	55	2	0	3	1
WV HUNTINGTON	88	71	95	70	80	4	2.43	1.41	0.74	13.12	162	32.83	126	95	61	4	0	6	3
WI EAU CLAIRE	82	63	90	58	73	1	0.49	-0.39	0.43	9.81	122	22.22	121	97	52	1	0	3	0
WI GREEN BAY	80	63	86	57	71	1	1.07	0.32	0.44	7.66	114	18.84	116	99	68	0	0	4	0
WI LA CROSSE	83	67	90	64	75	1	0.14	-0.77	0.11	11.88	147	24.48	129	93	56	1	0	2	0
WI MADISON	84	65	90	59	74	2	0.14	-0.72	0.14	8.95	115	22.88	119	91	64	1	0	1	0
WI MILWAUKEE	84	69	94	67	77	4	0.07	-0.71	0.04	5.25	75	17.06	86	84	58	1	0	2	0
WY CASPER	91	52	97	47	72	1	0.16	-0.10	0.08	1.40	53	10.86	125	77	31	5	0	3	0
WY CHEYENNE	84	57	91	54	71	3	0.50	0.01	0.30	3.16	74	13.02	127	87	43	1	0	5	0
WY LANDER	91	58	95	54	75	3	0.00	-0.16	0.00	0.57	30	16.72	193	56	15	5	0	0	0
WY SHERIDAN	92	57	99	51	75	5	0.06	-0.11	0.04	0.63	20	9.98	104	71	28	6	0	2	0

Based on 1971-2000 normals

*** Not Available

National Agricultural Summary

July 25 – 31, 2016

Weekly National Agricultural Summary provided by USDA/NASS

HIGHLIGHTS

Across most of the eastern and western U.S., temperatures averaged as much as 6°F above normal during the week. Conversely, cooler-than-normal weather settled over areas from the northern Great Plains eastward to the middle

Mississippi Valley. Significant precipitation fell in the Delta, through the Ohio Valley, and into the Mid-Atlantic States. Thunderstorms dumped heavy rainfall totaling more than 6 inches in portions of Louisiana.

Corn: Ninety-one percent of the corn was at or beyond the silking stage by July 31, four percentage points ahead of last year and 6 points ahead of the 5-year average. In all eighteen estimating states, the percentage of the crop in the silking stage was at or ahead of the 5-year average. By week's end, 30 percent of the U.S. corn crop was at or beyond the dough stage, 5 percentage points ahead of both last year and the 5-year average. Despite cooler-than-average temperatures in Iowa in late July, corn dough progress was 15 percentage points ahead of the 5-year average. Overall, 76 percent of the corn was reported in good to excellent condition, unchanged from last week but 6 percentage points above the same time last year.

Soybeans: By week's end, 85 percent of this year's soybean crop was at or beyond the blooming stage, 7 percentage points ahead last year and 6 points ahead of the 5-year average. By July 31, fifty-four percent of the soybeans were at or beyond the pod-setting stage, 6 percentage points ahead of last year and 10 points ahead of the 5-year average. Pod setting advanced by more than 20 percentage points during the week in Michigan, Minnesota, Nebraska, Ohio, Wisconsin, and the Dakotas. Overall, 72 percent of the soybeans were reported in good to excellent condition, slightly above last week and 9 percentage points above the same time last year.

Winter Wheat: By July 31, producers had harvested 89 percent of the 2016 winter wheat crop, 2 percentage points behind last year but 3 points ahead of the 5-year average. Warm, dry weather in Montana and Oregon aided the winter wheat harvest, which advanced 34 and 29 percentage points, respectively.

Cotton: Nationally, 92 percent of the cotton was at or beyond the squaring stage by week's end, 2 percentage points ahead of last year and slightly ahead of the 5-year average. By July 31, bolls were setting on 54 percent of the nation's crop, slightly ahead of last year but 3 percentage points behind the 5-year average. In the Coastal Bend and Lower Valley of Texas, producers were defoliating cotton and beginning to harvest. Cotton bolls were opening in the Upper Coast and South Texas. Overall, 50 percent of the cotton was reported in good to excellent condition, down 2 percentage points from last week and 7 points below the same time last year.

Sorghum: By week's end, 61 percent of the nation's sorghum was at or beyond the heading stage, 7 percentage points ahead of

last year and 11 points ahead of the 5-year average. Cooler, wetter weather in Kansas benefited the developing crop. Sorghum was 47 percent headed in Kansas, 23 percentage points ahead of the 5-year average. Nationally, 26 percent of this year's crop was at or beyond the coloring stage, slightly behind last year and 3 percentage points behind the 5-year average. Overall, 66 percent of the sorghum was reported in good to excellent condition, up slightly from last week but 2 percentage points lower than at the same time last year.

Rice: Heading of the nation's rice advanced to 71 percent complete by July 31, eleven percentage points ahead of last year and 17 points ahead of the 5-year average. Heading progress was ahead of average in all of the major rice-producing states except Mississippi. Heading was nearly complete in Texas. Overall, 66 percent of the rice was reported in good to excellent condition, slightly below last week and 4 percentage points below the same time last year.

Small Grains: Oat producers had harvested 53 percent of this year's crop by week's end, 15 percentage points ahead of last year and 11 points ahead of the 5-year average. With ample time for fieldwork, double-digit harvest progress was evident in most states. Overall, 64 percent of the oats were reported in good to excellent condition, unchanged from last week but 4 percentage points below the same time last year.

By July 31, barley producers had harvested 11 percent of the nation's crop, 3 percentage points behind last year but 3 points ahead of the 5-year average. Overall, 72 percent of the barley was reported in good to excellent condition, down slightly from last week but 4 percentage points above the same time last year.

By week's end, 10 percent of the spring wheat was harvested, 4 percentage points ahead of last year and slightly ahead of the 5-year average. Overall, 68 percent of the spring wheat was reported in good to excellent condition, unchanged from last week but 2 percentage points below the same time last year.

Other Crops: Eighty-nine percent of the peanut crop was pegging by week's end, 3 percentage points ahead of last year and 4 points ahead of the 5-year average. Pegging in Florida, Georgia, and the Carolinas was nearing completion. Overall, 66 percent of the peanuts were reported in good to excellent condition, unchanged from last week but 9 percentage points lower than at the same time last year.

Crop Progress and Condition

Week Ending July 31, 2016

Weekly U.S. Progress and Condition Data provided by USDA/NASS

Corn Percent Silking				
	Prev Year	Prev Week	Jul 31 2016	5-Yr Avg
CO	64	28	74	63
IL	93	90	97	95
IN	82	78	89	88
IA	90	87	95	85
KS	87	86	92	88
KY	91	85	90	84
MI	81	54	81	79
MN	91	86	95	84
MO	89	97	100	92
NE	91	82	95	91
NC	96	96	98	98
ND	76	45	70	70
OH	78	58	80	79
PA	83	57	81	81
SD	81	67	83	76
TN	96	94	97	97
TX	89	92	96	93
WI	75	64	88	69
18 Sts	87	79	91	85
These 18 States planted 93% of last year's corn acreage.				

Corn Percent Dough				
	Prev Year	Prev Week	Jul 31 2016	5-Yr Avg
CO	1	0	1	4
IL	42	18	38	42
IN	19	10	29	21
IA	25	11	35	20
KS	30	13	33	42
KY	37	31	43	34
MI	9	1	10	6
MN	15	2	26	10
MO	45	37	60	51
NE	20	13	25	26
NC	81	75	88	83
ND	3	0	2	8
OH	12	1	14	17
PA	34	2	17	17
SD	12	5	20	12
TN	70	60	79	70
TX	71	58	68	71
WI	5	1	10	6
18 Sts	25	13	30	25
These 18 States planted 93% of last year's corn acreage.				

Corn Condition by Percent					
	VP	P	F	G	EX
CO	1	2	14	68	15
IL	1	2	14	57	26
IN	2	5	16	54	23
IA	1	3	13	59	24
KS	1	6	26	57	10
KY	2	5	18	58	17
MI	3	9	30	46	12
MN	1	3	11	61	24
MO	2	4	18	57	19
NE	1	4	18	59	18
NC	4	7	25	49	15
ND	1	3	17	64	15
OH	3	10	33	47	7
PA	2	9	29	46	14
SD	2	9	31	49	9
TN	3	8	25	41	23
TX	3	10	30	46	11
WI	1	2	10	48	39
18 Sts	1	5	18	56	20
Prev Wk	1	4	19	57	19
Prev Yr	2	7	21	52	18

Soybeans Percent Blooming				
	Prev Year	Prev Week	Jul 31 2016	5-Yr Avg
AR	86	91	96	82
IL	79	76	85	84
IN	78	70	80	80
IA	84	83	90	85
KS	57	56	69	65
KY	63	47	60	60
LA	93	95	97	94
MI	87	67	81	82
MN	94	90	94	83
MS	89	83	89	91
MO	42	58	71	60
NE	86	75	87	86
NC	56	46	66	51
ND	92	81	91	87
OH	76	70	84	77
SD	79	82	89	83
TN	69	73	81	70
WI	77	86	93	73
18 Sts	78	76	85	79
These 18 States planted 95% of last year's soybean acreage.				

Soybeans Percent Setting Pods				
	Prev Year	Prev Week	Jul 31 2016	5-Yr Avg
AR	66	70	80	60
IL	46	33	51	48
IN	51	35	50	47
IA	51	44	64	48
KS	25	17	30	22
KY	35	18	31	33
LA	86	80	89	85
MI	41	20	41	41
MN	67	39	64	45
MS	72	65	79	70
MO	17	21	33	23
NE	48	19	43	46
NC	31	23	37	25
ND	67	36	60	54
OH	35	19	40	34
SD	48	42	65	40
TN	45	40	55	43
WI	43	44	69	33
18 Sts	48	35	54	44
These 18 States planted 95% of last year's soybean acreage.				

Soybean Condition by Percent					
	VP	P	F	G	EX
AR	7	7	28	44	14
IL	2	4	17	56	21
IN	2	4	19	54	21
IA	1	2	14	61	22
KS	2	7	33	52	6
KY	2	6	21	57	14
LA	0	4	17	70	9
MI	3	9	30	48	10
MN	1	3	16	61	19
MS	1	7	22	47	23
MO	1	5	24	57	13
NE	1	3	20	62	14
NC	1	5	26	52	16
ND	2	5	20	62	11
OH	3	8	31	49	9
SD	1	6	33	53	7
TN	1	4	21	48	26
WI	0	1	11	53	35
18 Sts	2	5	21	56	16
Prev Wk	2	5	22	56	15
Prev Yr	3	8	26	50	13

Crop Progress and Condition

Week Ending July 31, 2016

Weekly U.S. Progress and Condition Data provided by USDA/NASS

Cotton Percent Squaring				
	Prev Year	Prev Week	Jul 31 2016	5-Yr Avg
AL	96	92	95	90
AZ	100	95	98	97
AR	100	100	100	100
CA	98	90	93	96
GA	96	93	95	92
KS	65	53	63	75
LA	100	98	100	99
MS	96	90	93	98
MO	97	87	92	96
NC	95	90	94	95
OK	86	65	77	72
SC	98	85	90	94
TN	89	92	95	92
TX	86	82	90	90
VA	96	85	91	96
15 Sts	90	85	92	91
These 15 States planted 99% of last year's cotton acreage.				

Cotton Percent Setting Bolls				
	Prev Year	Prev Week	Jul 31 2016	5-Yr Avg
AL	84	66	82	69
AZ	73	65	75	72
AR	93	97	98	95
CA	91	60	64	82
GA	74	68	77	69
KS	17	8	18	24
LA	86	76	85	90
MS	79	72	78	78
MO	47	34	41	53
NC	71	50	68	74
OK	32	19	31	31
SC	74	40	56	61
TN	55	55	68	58
TX	40	36	42	45
VA	55	30	42	58
15 Sts	53	46	54	57
These 15 States planted 99% of last year's cotton acreage.				

Cotton Condition by Percent					
	VP	P	F	G	EX
AL	1	5	46	42	6
AZ	4	0	5	51	40
AR	5	3	15	45	32
CA	0	5	25	20	50
GA	2	8	30	49	11
KS	1	1	33	63	2
LA	0	5	25	66	4
MS	2	8	33	44	13
MO	2	8	46	39	5
NC	4	8	25	57	6
OK	0	0	46	47	7
SC	0	1	54	39	6
TN	1	2	19	58	20
TX	3	17	38	37	5
VA	0	4	22	73	1
15 Sts	3	12	35	42	8
Prev Wk	3	10	35	43	9
Prev Yr	1	9	33	46	11

Sorghum Percent Headed				
	Prev Year	Prev Week	Jul 31 2016	5-Yr Avg
AR	90	81	89	92
CO	16	24	42	25
IL	46	37	48	47
KS	27	27	47	24
LA	100	99	100	99
MO	56	46	56	49
NE	52	25	42	37
NM	12	11	15	10
OK	46	38	44	47
SD	64	42	62	49
TX	86	80	81	83
11 Sts	54	49	61	50
These 11 States planted 98% of last year's sorghum acreage.				

Sorghum Percent Coloring				
	Prev Year	Prev Week	Jul 31 2016	5-Yr Avg
AR	59	25	43	51
CO	3	0	5	6
IL	9	1	13	9
KS	1	1	3	1
LA	88	76	88	85
MO	6	5	11	6
NE	3	0	1	3
NM	0	0	0	0
OK	13	7	19	17
SD	1	3	13	3
TX	62	58	59	71
11 Sts	27	23	26	29
These 11 States planted 98% of last year's sorghum acreage.				

Sorghum Condition by Percent					
	VP	P	F	G	EX
AR	3	9	31	44	13
CO	0	2	33	60	5
IL	2	6	26	61	5
KS	1	3	22	64	10
LA	0	5	28	55	12
MO	0	3	28	62	7
NE	0	0	16	68	16
NM	0	2	78	19	1
OK	0	3	28	66	3
SD	0	3	36	61	0
TX	2	9	31	42	16
11 Sts	1	5	28	55	11
Prev Wk	1	5	29	54	11
Prev Yr	3	4	25	59	9

Crop Progress and Condition

Week Ending July 31, 2016

Weekly U.S. Progress and Condition Data provided by USDA/NASS

Oats Percent Harvested				
	Prev Year	Prev Week	Jul 31 2016	5-Yr Avg
IA	72	54	78	73
MN	24	10	35	28
NE	71	65	76	82
ND	0	26	31	9
OH	43	63	80	54
PA	38	24	39	42
SD	57	58	78	47
TX	100	100	100	100
WI	26	17	34	29
9 Sts	38	37	53	42
These 9 States harvested 70% of last year's oat acreage.				

Oat Condition by Percent					
	VP	P	F	G	EX
IA	0	2	19	65	14
MN	1	4	18	61	16
NE	2	1	26	63	8
ND	4	8	22	61	5
OH	1	2	26	65	6
PA	2	7	22	58	11
SD	1	7	38	51	3
TX	8	15	38	34	5
WI	0	1	12	56	31
9 Sts	3	7	26	53	11
Prev Wk	3	7	26	53	11
Prev Yr	4	7	21	55	13

Winter Wheat Percent Harvested				
	Prev Year	Prev Week	Jul 31 2016	5-Yr Avg
AR	100	100	100	100
CA	98	97	98	97
CO	92	90	95	95
ID	46	10	21	23
IL	99	99	99	99
IN	95	99	100	99
KS	100	99	100	100
MI	78	81	94	87
MO	99	98	100	100
MT	62	20	54	27
NE	90	92	97	89
NC	100	100	100	99
OH	90	100	100	97
OK	100	100	100	100
OR	84	35	64	50
SD	67	82	87	63
TX	100	100	100	100
WA	77	23	41	39
18 Sts	91	83	89	86
These 18 States harvested 90% of last year's winter wheat acreage.				

Peanuts Percent Pegging				
	Prev Year	Prev Week	Jul 31 2016	5-Yr Avg
AL	82	63	76	76
FL	94	94	96	89
GA	91	94	96	86
NC	87	79	90	93
OK	62	60	71	83
SC	98	90	94	92
TX	58	57	65	77
VA	76	48	73	79
8 Sts	86	84	89	85
These 8 States planted 97% of last year's peanut acreage.				

Peanut Condition by Percent					
	VP	P	F	G	EX
AL	0	0	55	39	6
FL	2	3	26	63	6
GA	2	5	26	50	17
NC	1	3	15	67	14
OK	0	0	9	91	0
SC	0	1	18	63	18
TX	1	6	38	50	5
VA	0	0	8	90	2
8 Sts	1	4	29	54	12
Prev Wk	1	4	29	53	13
Prev Yr	0	3	22	58	17

Spring Wheat Percent Harvested				
	Prev Year	Prev Week	Jul 31 2016	5-Yr Avg
ID	15	1	6	6
MN	4	3	13	13
MT	4	NA	1	2
ND	0	NA	4	7
SD	18	20	55	25
WA	47	2	14	15
6 Sts	6	NA	10	9
These 6 States harvested 99% of last year's spring wheat acreage.				

Rice Percent Headed				
	Prev Year	Prev Week	Jul 31 2016	5-Yr Avg
AR	59	61	80	52
CA	24	26	27	22
LA	93	86	91	90
MS	78	57	68	72
MO	53	16	55	37
TX	83	91	95	87
6 Sts	60	57	71	54
These 6 States planted 100% of last year's rice acreage.				

Rice Condition by Percent					
	VP	P	F	G	EX
AR	3	9	27	43	18
CA	0	0	15	75	10
LA	0	5	32	55	8
MS	0	2	21	49	28
MO	1	3	24	51	21
TX	3	4	36	48	9
6 Sts	2	6	26	51	15
Prev Wk	2	5	26	51	16
Prev Yr	2	3	25	50	20

Spring Wheat Condition by Percent					
	VP	P	F	G	EX
ID	0	1	24	67	8
MN	3	5	23	55	14
MT	1	4	29	51	15
ND	3	7	19	62	9
SD	3	13	44	36	4
WA	0	1	13	79	7
6 Sts	2	6	24	58	10
Prev Wk	2	6	24	58	10
Prev Yr	1	6	23	56	14

Crop Progress and Condition

Week Ending July 31, 2016

Weekly U.S. Progress and Condition Data provided by USDA/NASS

Barley Percent Harvested				
	Prev Year	Prev Week	Jul 31 2016	5-Yr Avg
ID	19	1	6	8
MN	12	5	18	20
MT	19	1	9	7
ND	0	NA	16	9
WA	36	6	9	11
5 Sts	14	NA	11	8
These 5 States harvested 86% of last year's barley acreage.				

Barley Condition by Percent					
	VP	P	F	G	EX
ID	0	1	22	66	11
MN	6	6	25	55	8
MT	1	4	32	41	22
ND	2	4	18	66	10
WA	0	0	10	84	6
5 Sts	1	3	24	58	14
Prev Wk	1	3	23	58	15
Prev Yr	1	6	25	51	17

VP - Very Poor; P - Poor;
F - Fair;
G - Good; EX - Excellent

NA - Not Available
* Revised

Pasture and Range Condition by Percent											
Week Ending Jul 31, 2016											
	VP	P	F	G	EX		VP	P	F	G	EX
AL	8	18	32	37	5	NH	16	44	32	8	0
AZ	16	20	37	24	3	NJ	0	2	37	56	5
AR	2	9	32	49	8	NM	3	23	47	25	2
CA	15	25	20	35	5	NY	6	10	42	36	6
CO	3	5	26	56	10	NC	3	14	38	39	6
CT	4	74	22	0	0	ND	5	10	28	52	5
DE	4	12	35	43	6	OH	10	19	29	36	6
FL	3	8	26	47	16	OK	1	8	37	47	7
GA	16	21	37	23	3	OR	13	27	26	31	3
ID	3	9	32	45	11	PA	9	31	34	22	4
IL	1	3	18	60	18	RI	10	59	25	6	0
IN	2	5	21	59	13	SC	13	24	21	40	2
IA	2	7	30	50	11	SD	6	18	35	40	1
KS	1	5	25	61	8	TN	6	17	35	37	5
KY	1	6	20	61	12	TX	6	14	41	34	5
LA	1	9	34	50	6	UT	1	8	36	46	9
ME	3	23	34	31	9	VT	0	30	50	20	0
MD	1	6	30	56	7	VA	2	10	35	47	6
MA	17	27	31	25	0	WA	5	12	20	56	7
MI	10	18	33	31	8	WV	1	7	32	54	6
MN	1	5	14	63	17	WI	1	3	18	57	21
MS	1	9	32	51	7	WY	8	14	24	49	5
MO	1	5	36	51	7	48 Sts	5	12	32	44	7
MT	12	17	34	33	4						
NE	2	4	21	62	11	Prev Wk	4	11	32	46	7
NV	10	15	25	30	20	Prev Yr	3	9	30	47	11

Crop Progress and Condition

Week Ending July 31, 2016

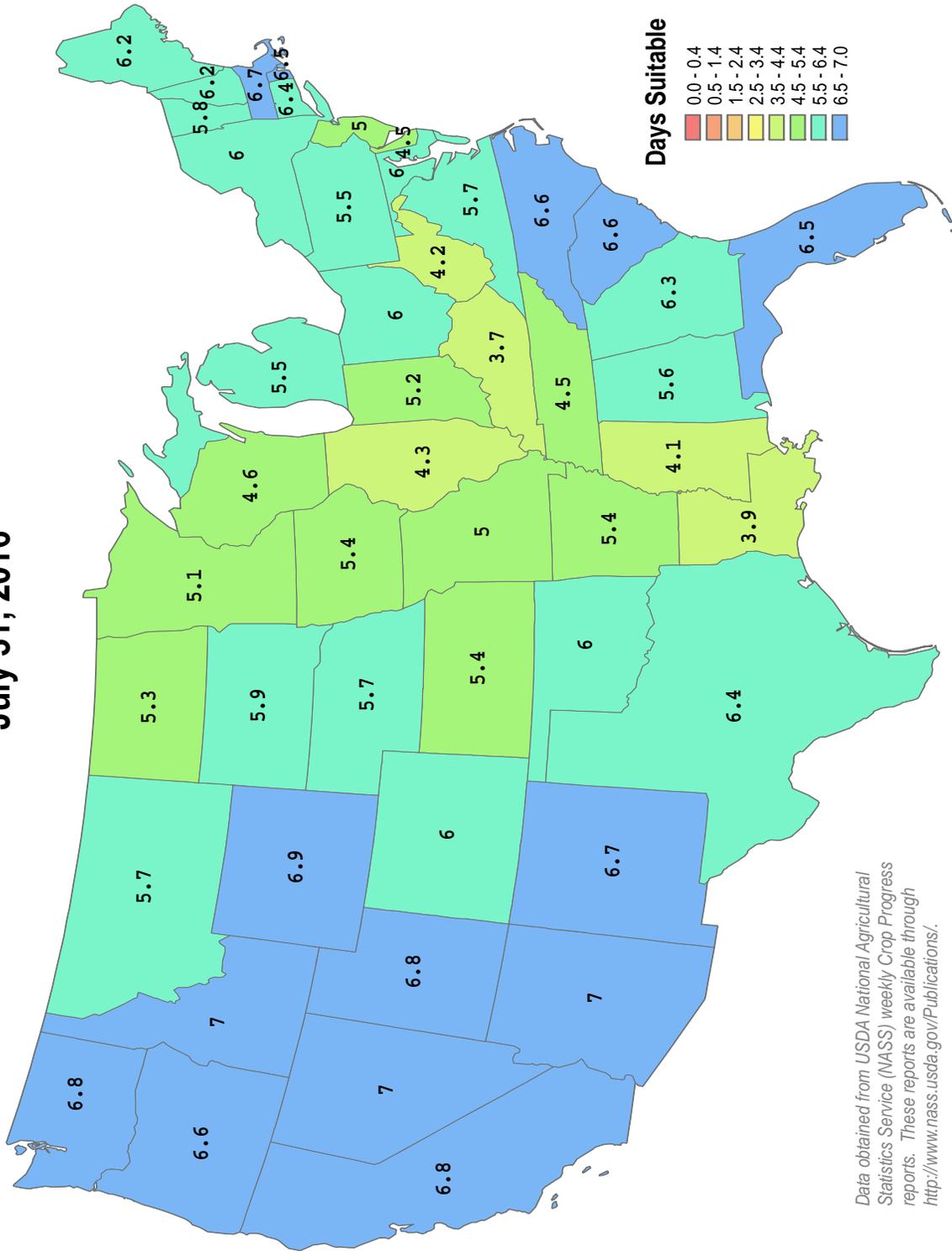
Weekly U.S. Progress and Condition Data provided by USDA/NASS

Days Suitable for Fieldwork

Week Ending July 31, 2016



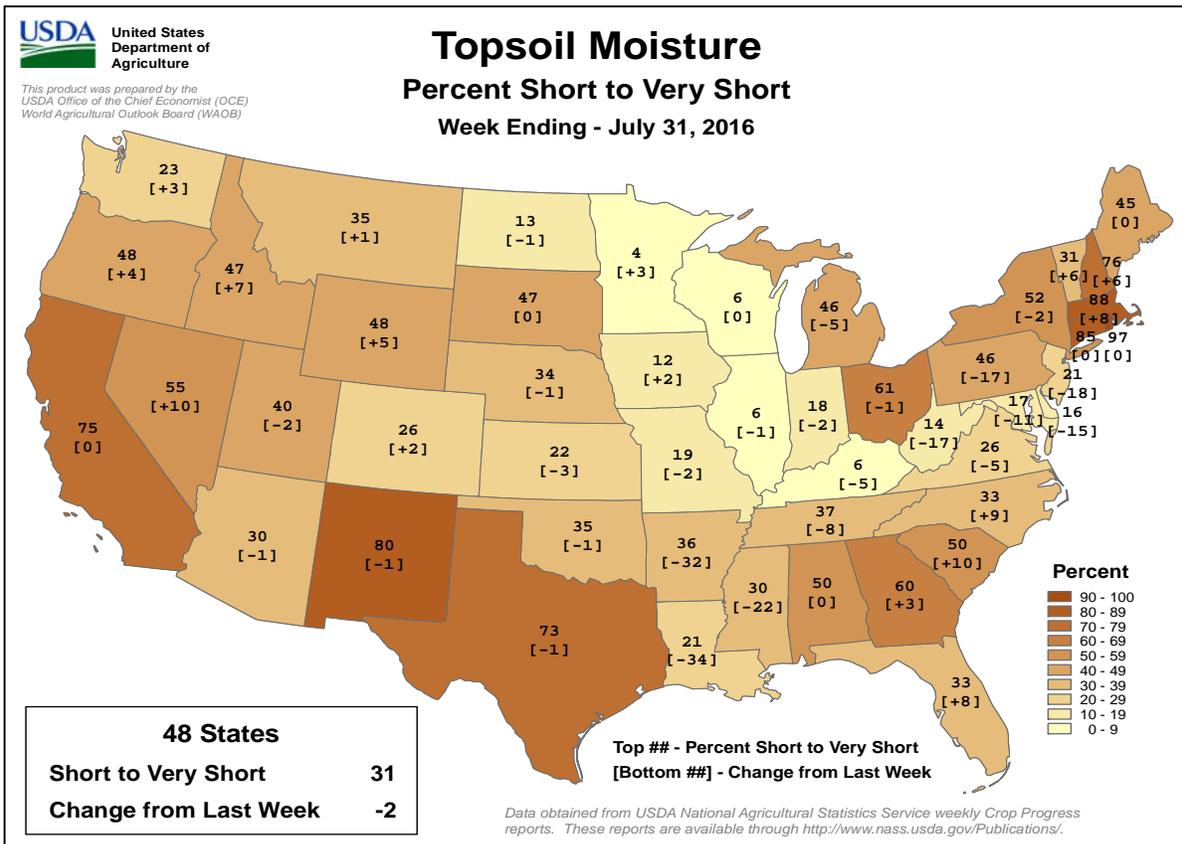
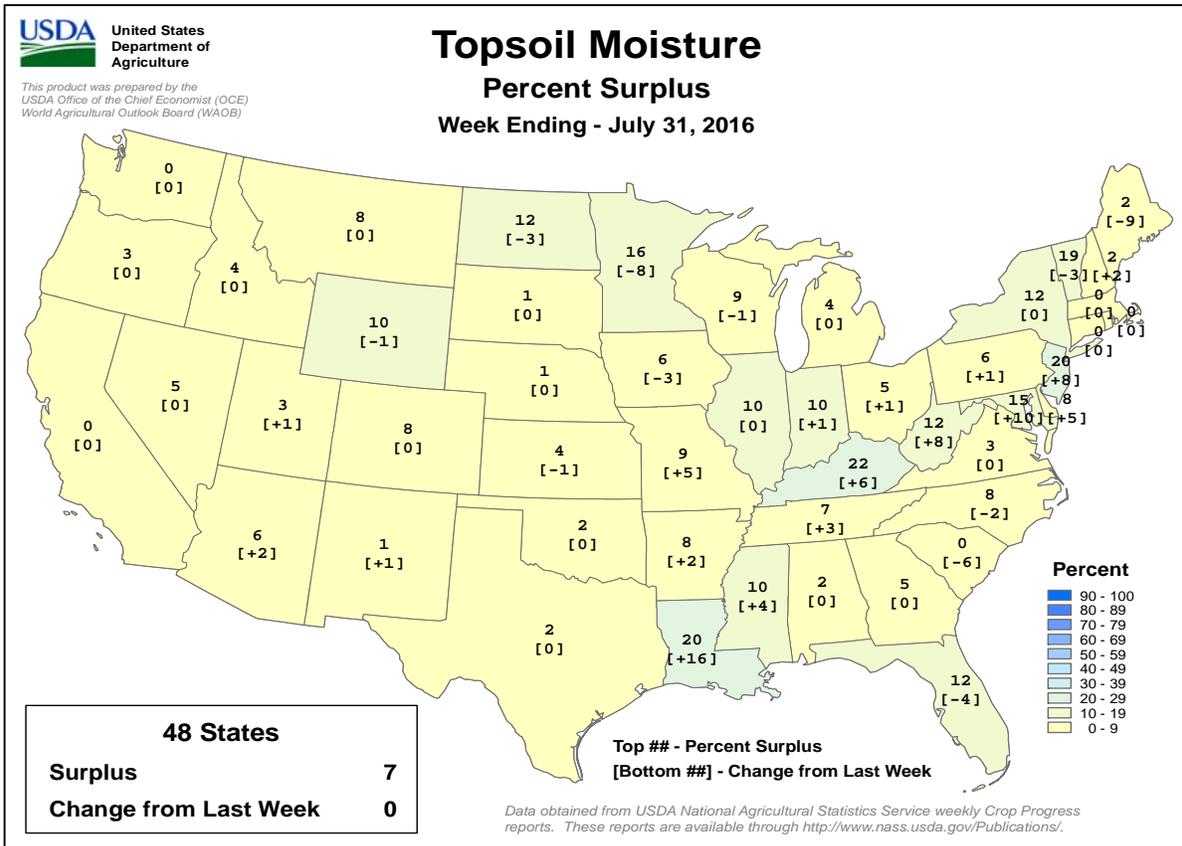
This product was prepared by the
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World Agricultural Outlook Board (WAOB)



Crop Progress and Condition

Week Ending July 31, 2016

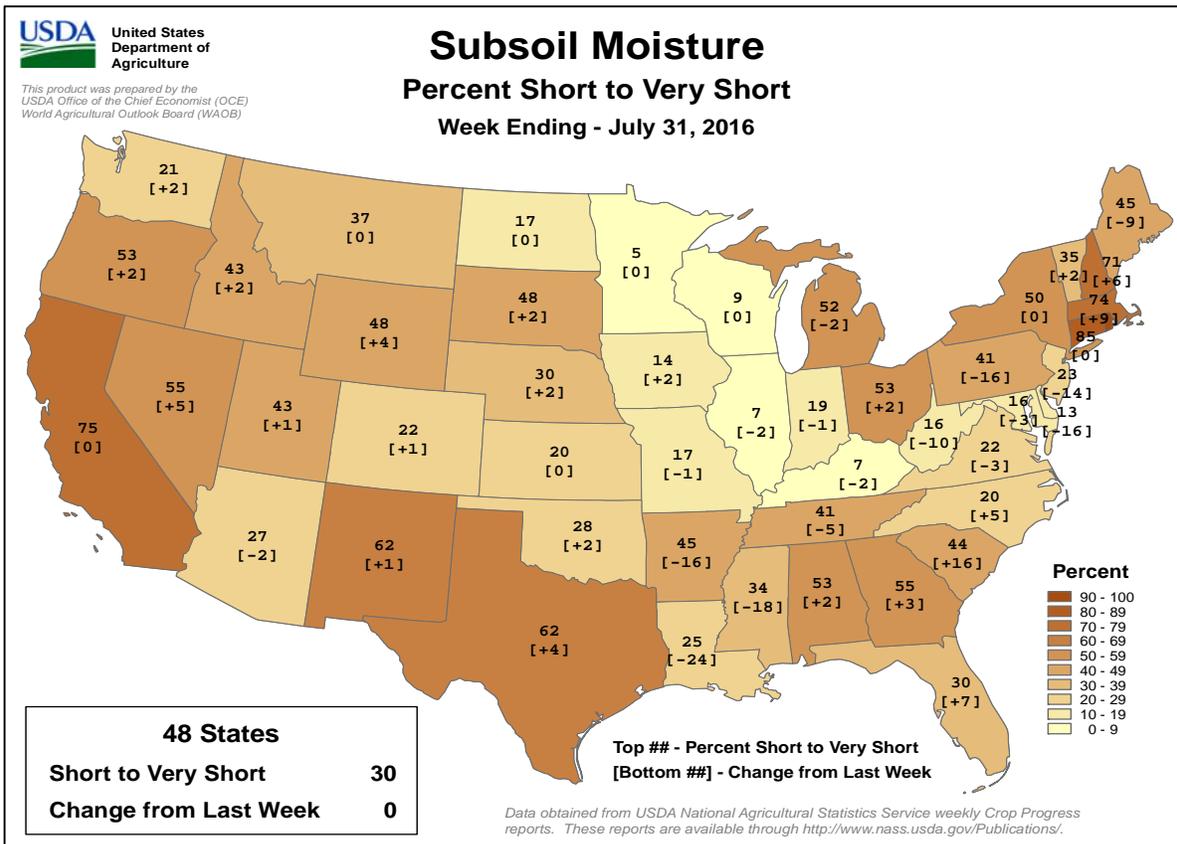
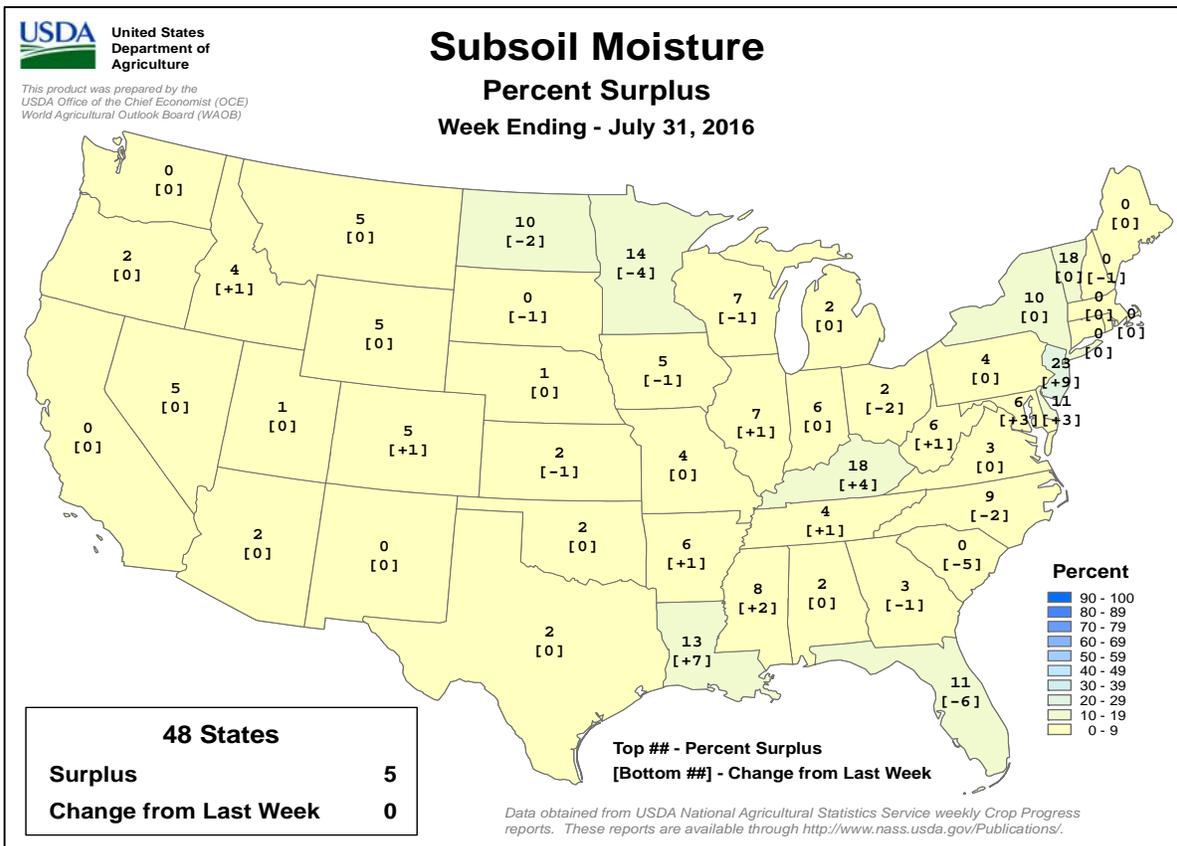
Weekly U.S. Progress and Condition Data provided by USDA/NASS



Crop Progress and Condition

Week Ending July 31, 2016

Weekly U.S. Progress and Condition Data provided by USDA/NASS



International Weather and Crop Summary

July 24-30, 2016

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

EUROPE: Dry weather early in the week promoted winter crop harvesting in France and England, while showers maintained favorable summer crop prospects over southern and eastern Europe.

FSU-WESTERN: Early-week showers gave way to drier, warmer weather, facilitating winter wheat harvesting and summer crop development.

FSU-EASTERN: Locally heavy showers maintained abundant moisture supplies for reproductive to filling spring wheat, while increasing heat in the south accelerated cotton into the open-boll stage of development.

MIDDLE EAST: Sunny skies advanced summer crops toward maturity in Turkey.

SOUTH ASIA: Rainfall across India benefited summer (kharif) crops, including improving moisture conditions for cotton in the west.

EAST ASIA: Showers continued to improve soil moisture for reproductive corn and soybeans in northeastern China, although pockets of dryness persisted.

SOUTHEAST ASIA: Monsoon showers continued to keep rice and other seasonal crops adequately watered, while also improving irrigation supplies.

AUSTRALIA: Scattered showers maintained good to excellent yield prospects throughout the wheat belt.

ARGENTINA: Showers disrupted autumn fieldwork, while providing moisture for winter grains.

BRAZIL: Warm, sunny weather promoted growth of wheat in southern Brazil.

MEXICO: Seasonal showers benefited rain-fed summer crops and northwestern watersheds.

CANADIAN PRAIRIES: Rain returned to the western Prairies as warm, sunny weather promoted spring crop growth in the east.

SOUTHEASTERN CANADA: Much-needed rain fell in key summer crop areas of southern Ontario.

July 2016

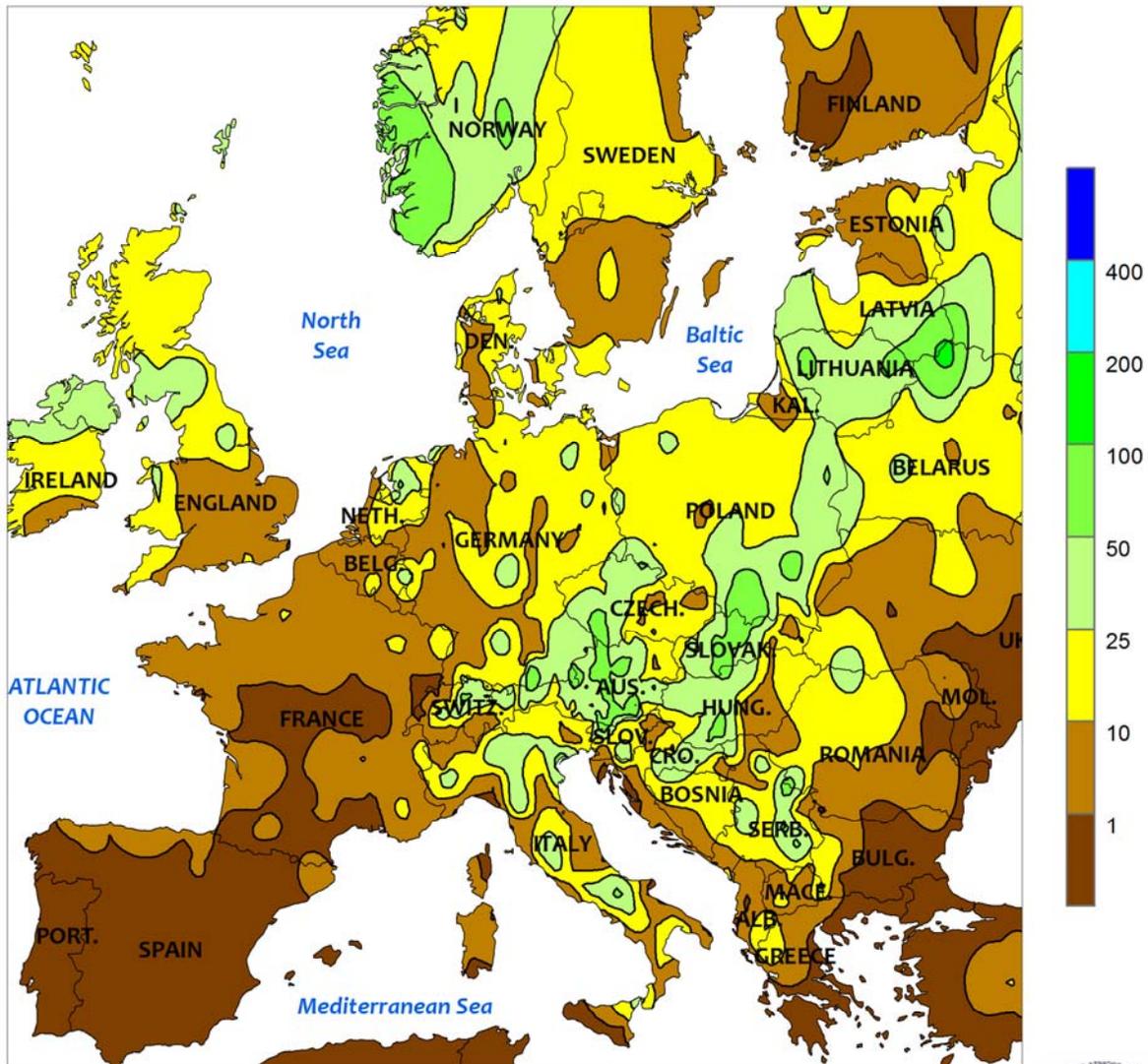
COUNTRY	CITY	TEMPERATURE (C)					PRECIP. (MM)		
		AVG MAX	AVG MIN	HI MAX	LO MIN	DEP AVG	DEP NRM	TOT	DEP NRM
ALGERI	ALGER	30	16	35	8	23	1.2	0	-10
	BATNA	33	14	40	8	23	0.3	1	-15
ARGENT	IGUAZU	20	9	29	0	14	-1.7	31	-136
	FORMOSA	20	8	28	-1	14	-3.3	40	-26
	CERES	18	5	24	0	11	-1.4	23	-9
	CORDOBA	16	2	21	-4	9	-2.2	63	50
	RIO CUARTO	14	3	20	-2	9	-1	34	15
	ROSARIO	15	4	20	-2	10	-0.8	58	20
	BUENOS AIRES	14	4	18	-1	9	-1.1	23	-31
	SANTA ROSA	14	2	18	-2	8	-0.1	28	8
	TRES ARROYOS	13	3	16	-4	8	0.2	67	32
AUSTRA	DARWIN	32	23	34	18	28	2.5	0	-2
	BRISBANE	21	13	24	5	17	1	164	110
	PERTH	19	9	25	3	14	-0.5	83	-65
	CEDUNA	17	8	22	2	12	0.3	17	-12
	ADELAIDE	16	10	20	4	13	1.1	48	-8
	MELBOURNE	14	7	17	1	10	0.4	46	7
	WAGGA	13	7	17	-1	10	1.5	67	20
	CANBERRA	12	4	15	-5	8	1.5	117	79
AUSTRI	VIENNA	25	14	32	8	20	1.6	238	175
	INNSBRUCK	24	13	34	10	18	2.1	310	195
BAHAMA	NASSAU	32	24	36	21	28	1.1	232	54
BARBAD	BRIDGETOWN	30	25	31	23	28	0.1	90	8
BELARU	MINSK	24	13	32	6	19	2.5	58	-27
BERMUD	ST GEORGES	27	23	29	21	25	-0.1	132	10
BOLIVI	LA PAZ	15	-4	17	-9	6	0	3	-3
BRAZIL	FORTALEZA	30	25	31	23	28	0.5	42	-62
	RECIFE	29	23	30	22	26	-0.4	131	-171
	CAMPO GRANDE	25	15	30	6	20	-1.6	245	207
	FRANCA	24	14	27	7	19	0.1	66	41
	RIO DE JANEIRO	23	17	30	13	20	-1.5	60	9
	LONDRINA	23	11	27	3	17	0	120	12
	SANTA MARIA	17	7	22	0	12	-2.5	5	-182
	TORRES	17	8	20	2	12	-6.8	14	-130
BULGAR	SOFIA	26	15	34	10	21	2	76	5
BURKIN	OUAGADOUGOU	36	26	41	22	31	1.1	95	-12
CANADA	TORONTO	26	14	35	7	20	2.2	26	-48
	MONTREAL	25	14	33	8	19	1.1	67	-16
	WINNIPEG	23	12	30	4	17	0.2	0	-85
	REGINA	24	11	31	4	17	0.7	0	-73
	SASKATOON	24	10	29	4	17	1.2	0	-58
	LETHBRIDGE	***	***	***	***	***	*****	*****	*****
	CALGARY	23	10	31	4	16	2.5	62	-18
	VANCOUVER	20	12	25	8	16	1	58	4
CANARY	LAS PALMAS	27	21	31	19	24	2.3	0	0
CHILE	SANTIAGO	16	3	23	0	9	0.6	37	-32
CHINA	HARBIN	25	16	32	12	21	0.2	221	144
	HAMI	35	19	39	14	27	2.1	7	0
	BEIJING	31	20	38	16	26	0.9	75	-4
	TIENTSIN	31	20	37	16	26	0.7	81	12
	LHASA	22	11	25	3	16	0.2	128	55
	KUNMING	25	18	28	14	21	1.2	133	-48
	CHENGCHOW	32	22	38	18	27	1.2	125	63
	YECHANG	28	21	36	16	24	0.1	240	93
	HANKOW	29	21	36	16	25	-0.9	472	249
	CHUNGKING	31	23	38	21	27	1.3	338	166
	CHIHKIANG	30	22	36	18	26	1.3	143	-67
	WU HU	28	21	36	17	25	-0.5	418	222
	SHANGHAI	28	22	35	17	25	0.6	207	34
	NANCHANG	31	24	37	19	27	1.6	389	82
	TAIPEI	34	27	38	25	30	2.3	397	68
	CANTON	33	25	36	22	29	1.2	526	250
	NANNING	34	26	39	22	30	1.6	347	140
COLOMB	BOGOTA	19	9	22	6	14	0.5	209	143
COTE D	ABIDJAN	30	25	32	22	27	0.7	325	-175
CUBA	HAVANA	31	23	33	21	27	0.4	3	-141
CYPRUS	LARNACA	32	21	38	17	27	2.1	0	-2
CZECHR	PRAGUE	23	12	32	8	18	2	81	9
DENMAR	COPENHAGEN	21	14	27	8	17	2.6	21	-31
EGYPT	CAIRO	37	25	43	22	31	3.3	0	*****

Based on Preliminary Reports

July 2016

COUNTRY	CITY	TEMPERATURE					PRECIP.			COUNTRY	CITY	TEMPERATURE					PRECIP.										
		AVG	AVG	HI	LO	DEP	TOT	DEP	AVG			AVG	HI	LO	DEP	TOT	DEP										
		MAX	MIN	MAX	MIN	AVG	NRM	TOT	DEP			MAX	MIN	MAX	MIN	AVG	NRM	TOT	DEP			MAX	MIN	AVG	NRM	TOT	DEP
	ASWAN	44	29	47	24	37	3.3	0	0	MOZAMB	MAPUTO	27	15	36	11	21	1.2	2	-10								
ESTONI	TALLINN	20	11	27	4	15	1.1	119	58	N KORE	PYONGYANG	28	18	31	14	23	1.4	78	-5								
ETHIOP	ADDIS ABABA	23	12	27	10	18	0.9	80	-38	NEW CA	NOUMEA	25	20	28	17	22	1.4	44	-73								
F GUIA	CAYENNE	31	23	33	22	27	1.4	432	-5	NIGER	NIAMEY	37	28	42	22	32	0.5	86	10								
FIJI	NAUSORI	28	20	30	17	24	0.9	103	-39	NORWAY	OSLO	20	11	27	4	15	1.6	58	-16								
FINLAN	HELSINKI	20	11	28	4	16	1.0	116	68	NZEALA	AUCKLAND	16	10	20	3	13	*****	126	*****								
FRANCE	PARIS/ORLY	22	14	32	11	18	0.6	89	42		WELLINGTON	15	9	18	3	12	*****	95	*****								
	STRASBOURG	24	14	34	10	19	1.8	161	84	P RICO	SAN JUAN	32	26	34	24	29	1.0	50	-39								
	BOURGES	21	13	32	10	17	0.2	98	39	PAKIST	KARACHI	36	28	42	25	32	0.5	41	35								
	BORDEAUX	24	14	33	11	19	1.0	74	9	PERU	LIMA	20	16	22	14	18	0.0	0	-2								
	TOULOUSE	25	15	31	12	20	1.3	46	-21	PHILIP	MANILA	34	26	36	24	30	0.6	245	-7								
	MARSEILLE	28	18	33	15	23	1.9	1	-25	PNEWGU	PORT MORESBY	31	25	33	22	28	1.7	21	-14								
GABON	LIBREVILLE	29	25	30	22	27	1.1	50	32	POLAND	WARSAW	25	14	34	6	20	3.0	57	-14								
GERMAN	HAMBURG	22	13	32	7	18	2.2	121	45		LODZ	25	12	35	4	19	2.4	55	-11								
	BERLIN	25	14	35	11	20	2.5	57	-12		KATOWICE	24	12	33	5	18	1.9	78	-2								
	DUSSELDORF	23	14	33	9	18	1.6	145	64	PORTUG	LISBON	26	17	34	15	21	1.9	1	-17								
	LEIPZIG	24	14	34	10	19	2.9	87	23	ROMANI	BUCHAREST	29	15	35	8	22	1.5	92	15								
	DRESDEN	23	14	33	11	19	2.4	124	45	RUSSIA	ST.PETERSBURG	20	13	28	7	17	0.7	106	45								
	STUTT GART	22	13	33	8	18	1.6	98	16		KAZAN	23	14	31	7	18	0.5	41	-30								
	NURNBERG	23	13	34	9	18	1.4	76	2		MOSCOW	23	13	32	6	18	1.0	68	-18								
	AUGSBURG	22	12	32	8	17	1.4	141	48		YEKATERINBURG	23	12	30	3	18	0.8	45	-20								
GREECE	THESSALONIKA	31	19	38	14	25	1.0	11	-20		OMSK	23	13	29	3	18	0.4	98	46								
	LARISSA	33	18	40	12	26	0.8	10	-12		BARNAUL	26	13	31	1	19	1.6	46	-6								
	ATHENS	32	22	39	18	27	1.7	22	16		KHABAROVSK	22	13	30	6	17	-0.3	106	29								
GUADEL	RAIZET	31	25	32	24	28	0.2	115	29		VLADIVOSTOK	15	11	23	7	13	0.3	251	131								
HONGKO	HONG KONG INT	34	28	37	25	31	2.5	187	-215		VLOGGRAD	27	15	34	6	21	0.2	36	5								
HUNGAR	BUDAPEST	27	16	35	10	21	2.1	59	2		ASTRAKHAN	30	18	36	11	24	0.7	75	48								
ICELAN	REYKJAVIK	14	9	17	6	11	2.8	43	-3		ORENBURG	26	13	33	6	19	-1.1	13	-24								
INDIA	AMRITSAR	39	26	44	22	33	0.6	127	61	S AFRI	JOHANNESBURG	18	7	21	4	12	2.1	13	6								
	NEW DELHI	40	29	43	25	34	0.8	51	-31		DURBAN	23	12	30	7	18	0.7	7	-15								
	AHMEDABAD	40	29	45	27	35	1.5	20	-96		CAPE TOWN	18	8	29	3	13	0.2	57	-40								
	INDORE	37	25	44	22	31	1.0	105	-48	S KORE	SEOUL	29	20	32	17	24	1.7	56	-82								
	CALCUTTA	35	27	40	21	31	0.8	195	-120	SAMOA	PAGO PAGO	29	26	30	24	28	0.8	98	-53								
	VERAVAL	34	29	35	26	31	1.4	102	-78	SENEGA	DAKAR	28	23	31	20	25	-0.3	0	-15								
	BOMBAY	33	27	35	23	30	0.3	792	345	SPAIN	VALLADOLID	28	12	35	7	20	1.8	3	-31								
	POONA	32	24	39	21	28	0.6	64	-95		MADRID	31	15	37	8	23	1.5	3	-21								
	BEGAMPET	34	24	41	21	29	-0.5	147	34		SEVILLE	34	18	39	14	26	1.5	0	-15								
	VISHAKHAPATNAM	32	27	36	24	29	-0.6	213	106	SWITZE	ZURICH	21	13	32	9	17	1.6	227	91								
	MADRAS	36	26	39	22	31	-1.4	115	35		GENEVA	23	13	32	9	18	1.2	141	50								
	MANGALORE	29	24	32	22	26	-0.3	1216	246	SYRIA	DAMASCUS	37	18	43	13	28	3.2	0	*****								
INDONE	SERANG	32	24	34	21	28	0.4	124	38	TAHITI	PAPEETE	30	23	31	20	26	1.1	180	116								
IRELAN	DUBLIN	18	10	22	3	14	0.8	59	-2	TANZAN	DAR ES SALAAM	31	21	32	20	26	1.6	4	-32								
ITALY	MILAN	27	17	33	13	22	1.4	124	56	THAILA	PHITSANULOK	34	26	37	24	30	0.5	226	46								
	VENICE	26	18	33	13	22	1.3	300	221		BANGKOK	34	27	36	24	30	0.7	464	315								
	GENOA	24	18	30	15	21	-0.2	59	5	TOGO	LOME	29	25	32	22	27	0.9	0	-279								
	ROME	27	17	33	13	22	0.5	20	-5	TRINID	PORT OF SPAIN	32	24	33	23	28	1.3	244	8								
	NAPLES	28	19	36	15	23	1.6	17	-14	TUNISI	TUNIS	30	20	36	15	25	1.5	10	-2								
JAMAIC	KINGSTON	33	26	33	23	29	0.7	23	-34	TURKEY	ISTANBUL	29	20	35	15	25	3.0	26	-1								
JAPAN	SAPPORO	20	14	28	8	17	0.6	118	66		ANKARA	27	12	34	7	19	2.2	15	-20								
	NAGOYA	28	20	33	14	24	1.2	222	18	TURKME	ASHKHHABAD	36	24	44	18	30	1.3	30	23								
	TOKYO	26	19	33	14	23	0.9	178	13	UKINGD	ABERDEEN	15	10	21	7	12	0.4	124	67								
	YOKOHAMA	26	20	32	16	23	1.5	182	-23		LONDON	21	13	26	9	17	0.8	90	45								
	KYOTO	28	20	34	13	24	0.7	290	66	UKRAIN	KIEV	25	16	32	8	21	2.3	16	-60								
	OSAKA	27	20	32	14	24	0.5	329	127		LVOV	24	13	32	3	19	2.5	118	26								
KAZAKH	KUSTANAY	24	13	31	0	18	-1.6	51	6		KIROVOGRAD	26	15	33	6	20	1.6	68	-2								
	TSELINOGRAD	24	13	33	3	19	-0.8	74	28		ODESSA	26	18	33	10	22	2.2	57	9								
	KARAGANDA	24	12	32	6	18	-1.1	62	32		KHARKOV	25	15	32	7	20	1.1	52	-11								

EUROPE
Total Precipitation (mm)
JUL 24 - 30, 2016



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

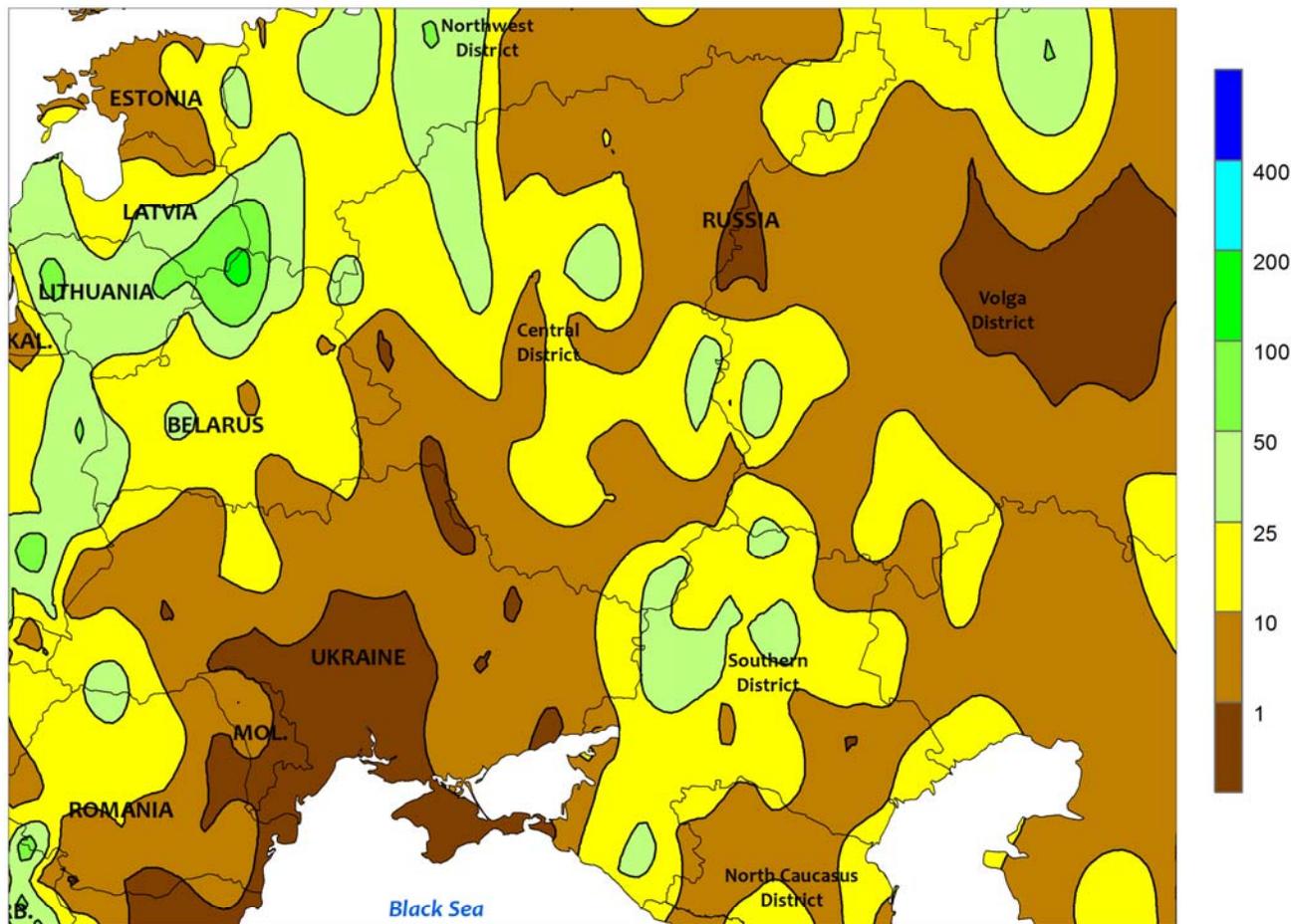


EUROPE

Dry weather early in the period facilitated winter crop harvesting in England and France prior to the arrival of late-week showers, while conditions for reproductive summer crops remained good to excellent over much of southern and eastern Europe. Several days of sunny weather allowed harvesting of winter grains and oilseeds to make good progress in France and the United Kingdom, though showers slowed fieldwork later in the week. Unsettled weather (10-50 mm, locally more) maintained good soil moisture supplies for filling spring grains and reproductive summer crops over Germany, Poland, and the Baltic States. Farther south, high

heat (35-37°C) accompanied sunny skies in northern Spain, maintaining occasional stress on silking corn. In contrast, temperatures remained favorable (daytime highs mostly below 35°C) for reproductive corn, sunflowers, and soybeans over northern Italy and the Balkans, with no widespread incursions of damaging heat reported. Furthermore, soil moisture remained in good supply following this week's variable (2-40 mm) but widespread shower activity. Dryness concerns have developed, however, in eastern-most portions of the lower Danube River Valley, where 30-day rainfall has tallied locally less than 25 percent of normal.

WESTERN FSU
Total Precipitation (mm)
JUL 24 - 30, 2016



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

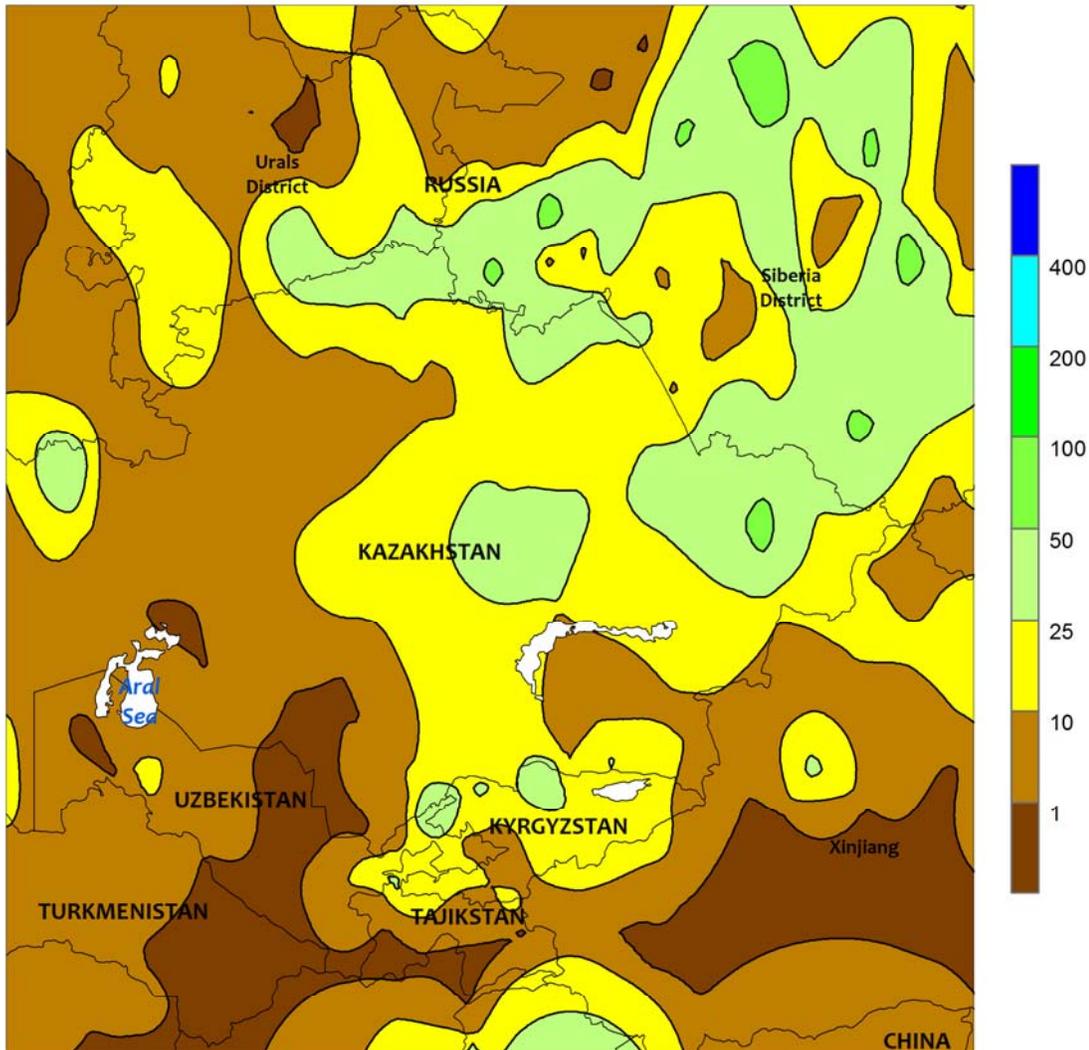


WESTERN FSU

Drier, somewhat cooler conditions followed early-week showers, maintaining mostly favorable prospects for summer crops. A cold front triggered widespread showers and thunderstorms (10-70 mm, locally more) early in the period across Russia and Belarus, sustaining adequate to abundant moisture supplies for reproductive summer crops. The front also brought an end to the short-lived but intense mid-July heat wave, with daytime highs slipping below 35°C until week's end. Consequently, corn and sunflowers progressed through reproduction with little — if any — additional heat stress, though some yield losses from the recent hot spell are likely in

southern Russia. Corn in Russia's Southern District was subjected to as many as 6 days of high heat (35-41°C) in mid- to late-July as the crop progressed through the tassel and silk stages of development. Meanwhile, the sunny, warm weather later in the week favored winter wheat harvesting and enabled field preparations in advance of winter wheat planting, which typically occurs in late August and September. Despite a favorably wet summer to date, localized short-term dryness has developed in west-central Ukraine; over the past 30 days, this region has reported less than 50 percent of normal rainfall, reducing moisture supplies for reproductive corn and soybeans.

EASTERN FSU
 Total Precipitation (mm)
 JUL 24 - 30, 2016



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

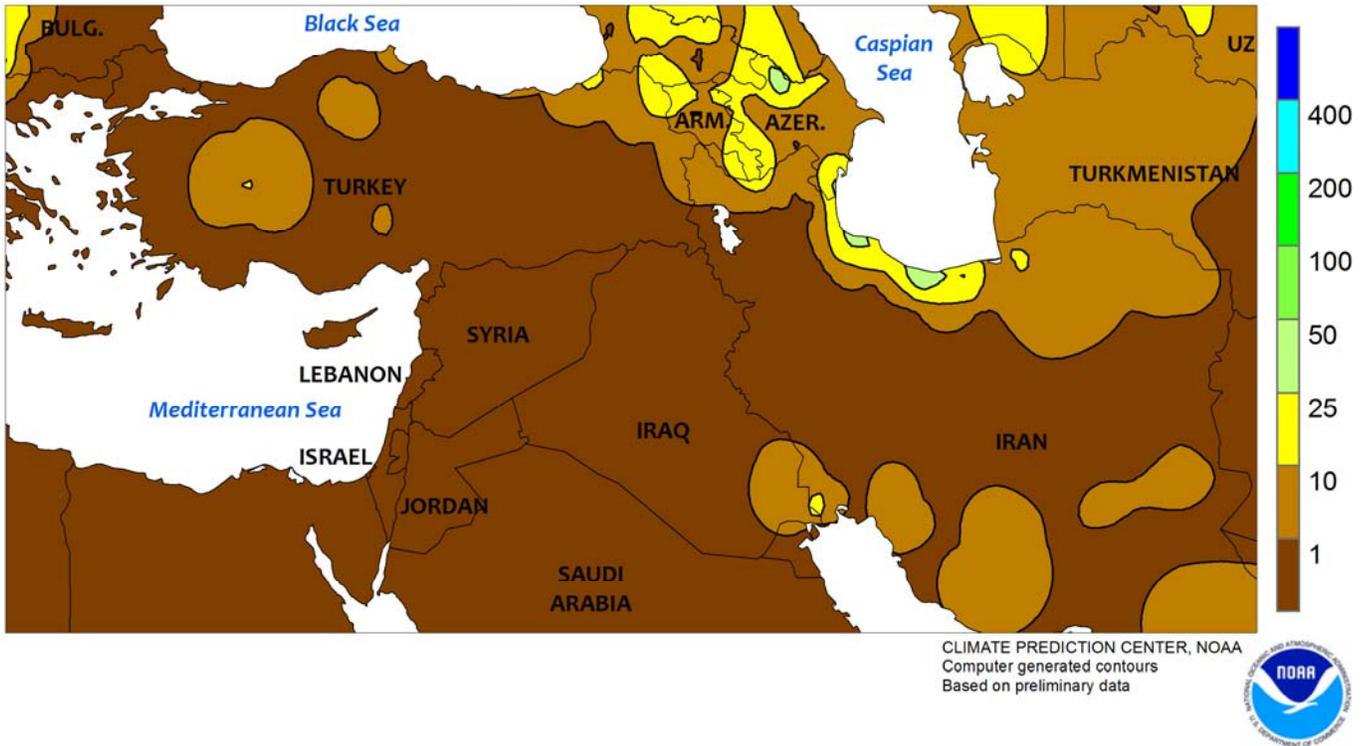


EASTERN FSU

Widespread rain and near- to below-normal temperatures maintained favorable prospects for spring wheat, while increasing heat accelerated cotton into the open-boll stage of development in the south. Another round of showers and thunderstorms (10-50 mm, locally more) over northern Kazakhstan and adjacent portions of central Russia maintained good to excellent yield prospects for flowering to filling spring wheat. Furthermore, heat has not been an issue due to the

cloudy, rainy weather, with temperatures averaging up to 2°C below normal for the week. However, drier weather will be needed soon to maintain the current favorable crop projections. Farther south, increasing heat (daytime highs 38-42°C) in Uzbekistan accelerated cotton into the open-boll stage of development, likely putting much of the crop past the point of significant yield impacts from this week's above-normal temperatures (1-2°C above normal).

MIDDLE EAST
Total Precipitation (mm)
JUL 24 - 30, 2016

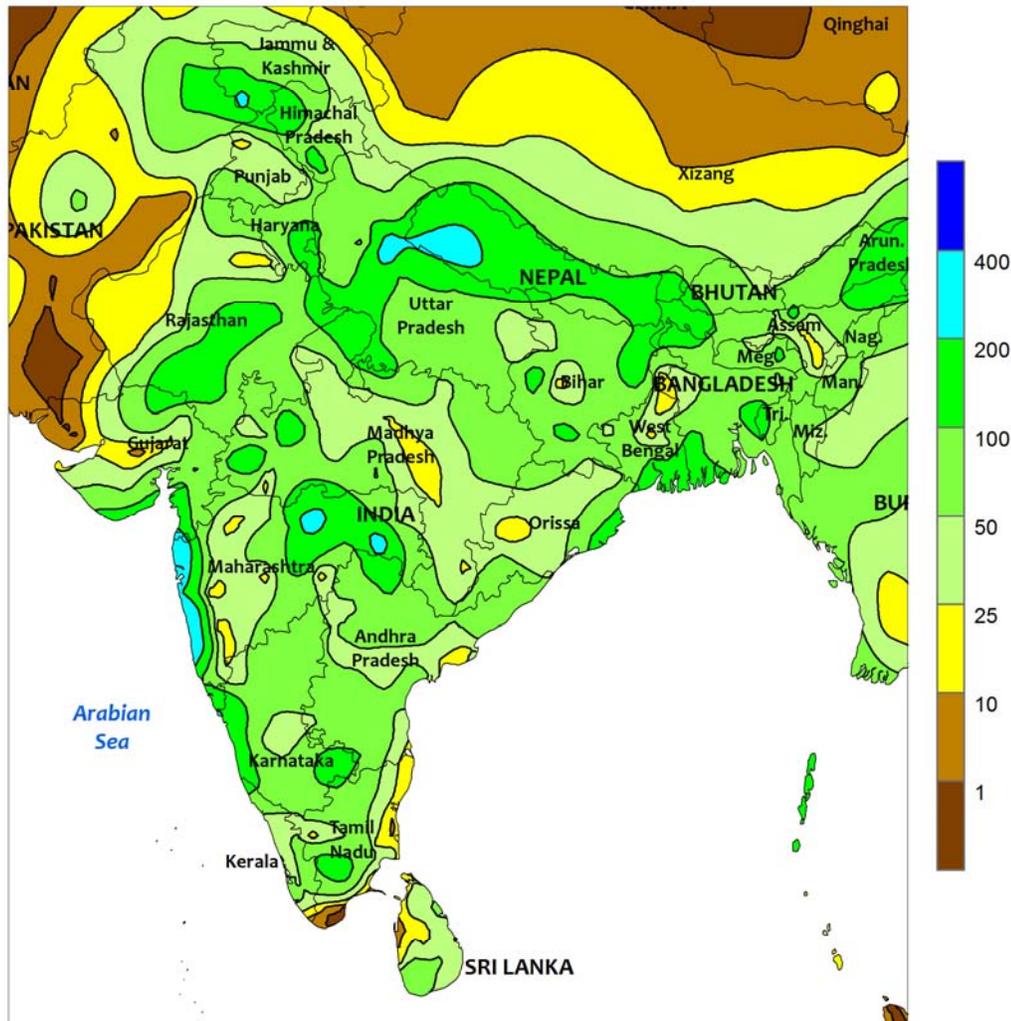


MIDDLE EAST

Sunny skies and near- to above-normal temperatures promoted fieldwork and summer crop development. In Turkey, seasonably dry, warm weather was beneficial for late winter wheat harvesting. In addition, corn and sunflowers advanced toward maturity, with early

harvesting reportedly underway. Cotton was in the open-boll stage of development, and subsequently past the point of negative impacts from any potential incursions of late-season heat; the cotton harvest typically starts in early September.

SOUTH ASIA
Total Precipitation (mm)
JUL 24 - 30, 2016



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

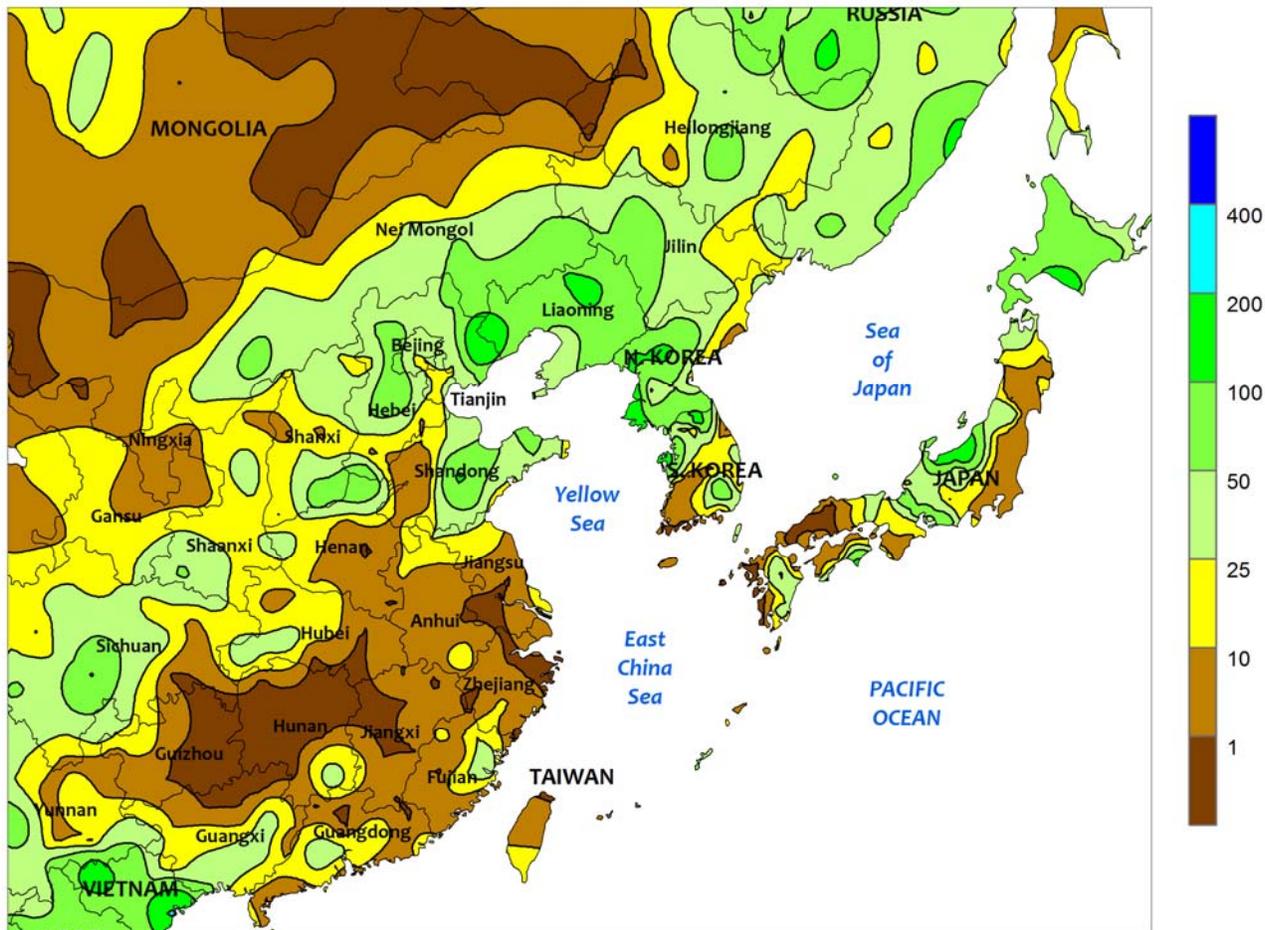


SOUTH ASIA

Rainfall was reported throughout India, maintaining or improving soil moisture for summer (kharif) crops. The rainfall was most welcomed for cotton in the west. The western state of Gujarat had been experiencing a moisture deficit for most of the season, but rainfall totals averaging nearly 125 mm all but eradicated the deficits. Additionally, heavy showers (over 50 mm) in the east kept rice adequately watered and maintained favorable irrigation supplies. Meanwhile, soaking rainfall (100-200 mm or more) continued in Maharashtra and western Madhya Pradesh, keeping soils

saturated for oilseeds and cotton. And while cotton conditions have remained good to excellent, soybean conditions continued to decline from the excessive wetness. In other parts of the region, seasonal showers (50-100 mm or more) maintained favorable moisture conditions for rice in Bangladesh, while more seasonable showers returned to summer (yala) rice areas of Sri Lanka, bringing monthly totals nearer to normal. In Pakistan, flooding was reported from heavy rainfall (100-200 mm) in the north, as irrigation water remained adequate for rice and cotton in Punjab and Sindh.

EASTERN ASIA
 Total Precipitation (mm)
 JUL 24 - 30, 2016



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

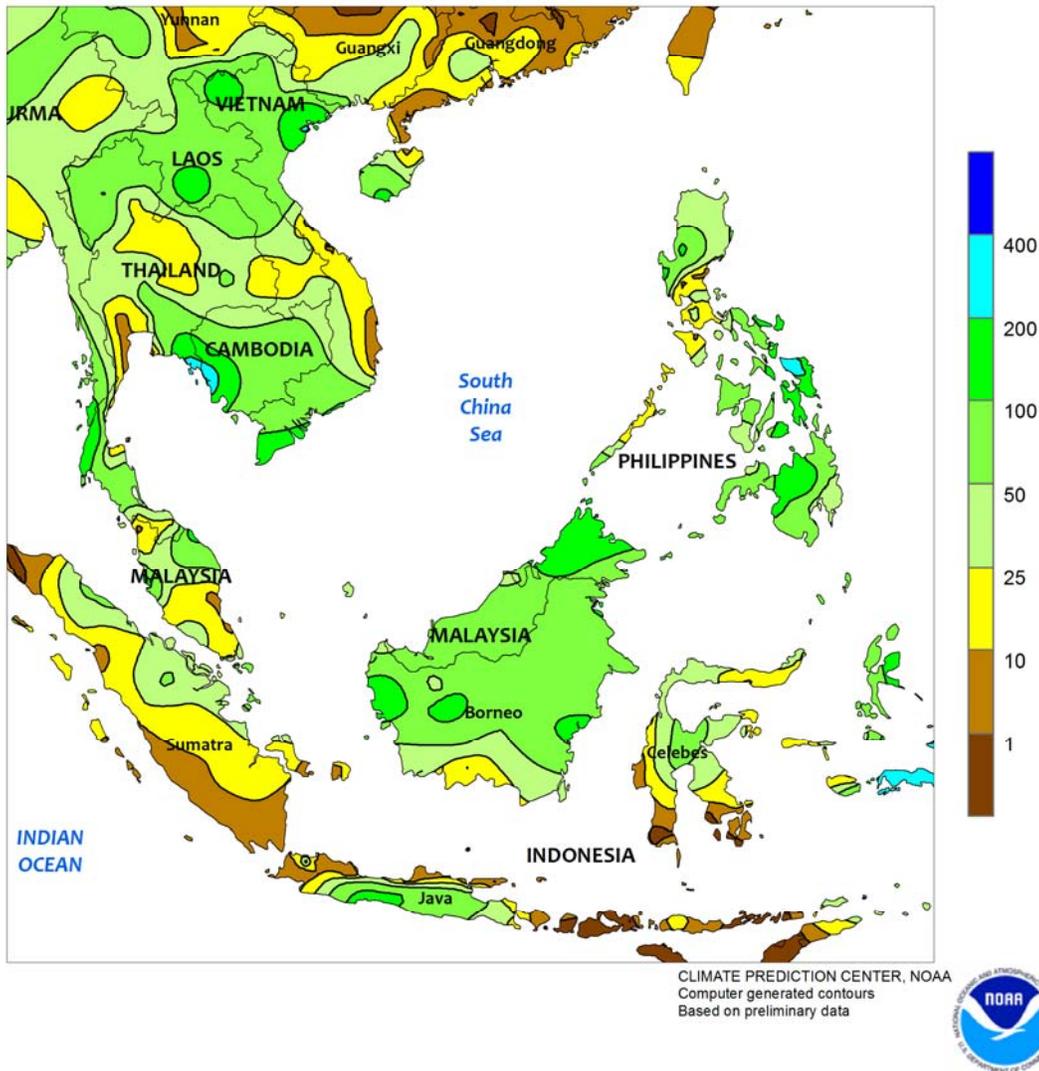


EASTERN ASIA

Showers continued across most of northeastern China, improving soil moisture following a prolonged period of untimely dryness. Rainfall amounts topped 100 mm in parts of Liaoning and into Jilin, with 25 to 50 mm more common in Heilongjiang. However, amounts were significantly less in the border areas with Inner Mongolia, where totals barely reached 10 mm. Although the lingering dryness was localized, overall corn conditions continued to decline in the northeast, owing to the dryness coinciding with the moisture-sensitive reproductive stages of development. Farther south, locally heavy showers (50-100 mm or more) continued in western sections of the North China Plain, which experienced extensive flooding last week. Meanwhile drier weather

extended from southern portions of the North China Plain to the southern coast. The drier weather eased excessive wetness and flooding brought on by frequent downpours over the last several weeks. In addition, temperatures were up to 5°C above normal in the area, with daytime temperatures routinely over 35°C. And despite saturated soils, the heat still caused stress to some summer crops. Elsewhere in the region, heavy showers (50-100 mm) in North Korea and northwestern South Korea improved or maintained favorable water supplies for rice, but unfavorable dryness continued in much of southern and eastern South Korea. In Japan, 50 to 100 mm of rain benefited rice in Hokkaido, while unseasonably light rainfall continued in most of Honshu.

SOUTHEAST ASIA
Total Precipitation (mm)
JUL 24 - 30, 2016

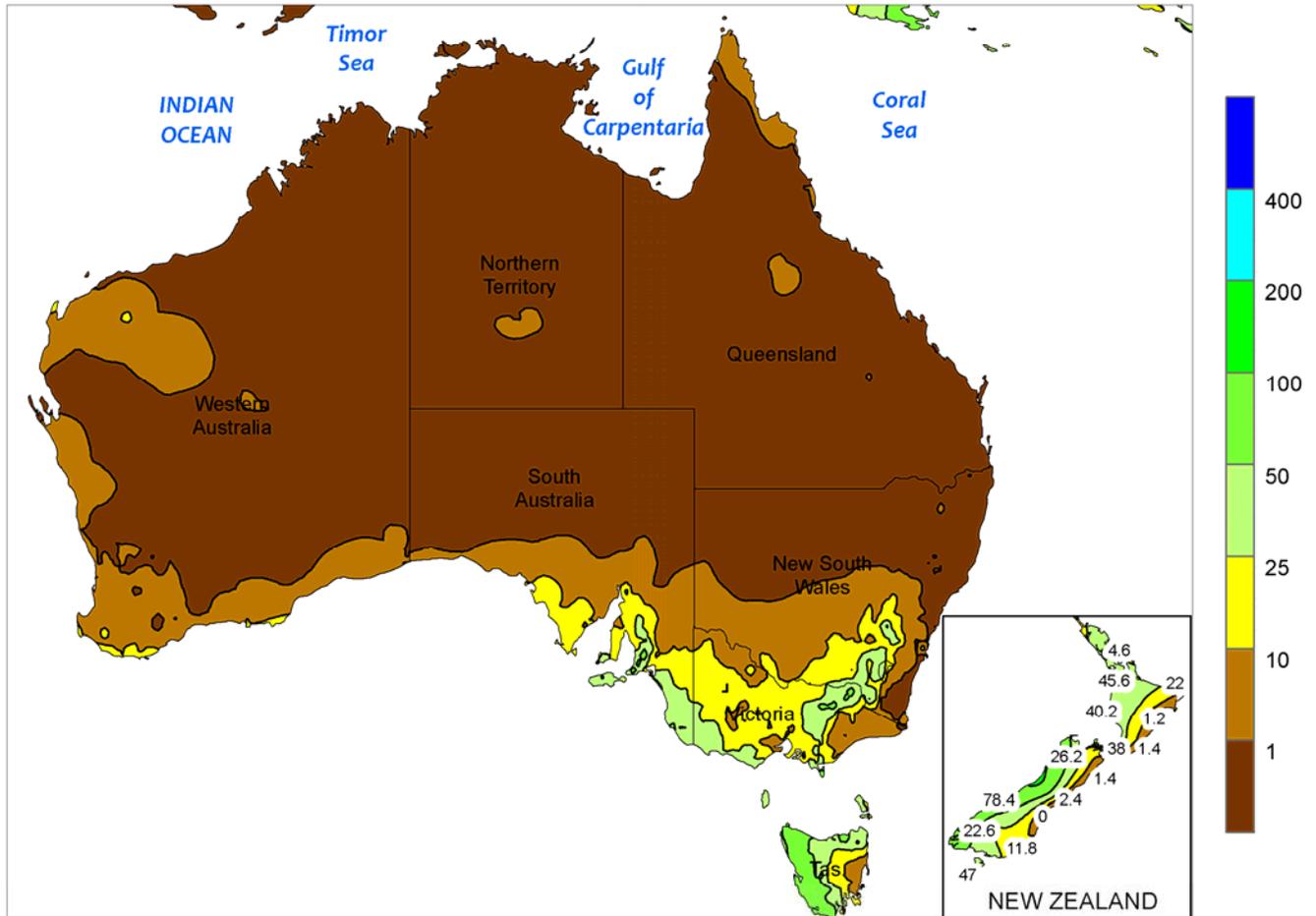


SOUTHEAST ASIA

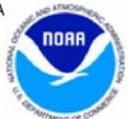
Monsoon showers continued throughout Indochina, with most of Thailand receiving over 25 mm and Laos, Cambodia, and Vietnam reporting higher totals (based on a combination of satellite-derived estimates and surface reports). Additionally, in northern Vietnam, Tropical Storm Mirinae made landfall early in the week, bolstering irrigation supplies for winter rice with over 200 mm of rain. The rainy season has been much improved over the past two years across Indochina, with water supplies for irrigation continuing to improve. To the east, showers (25-100 mm)

overspread most of the Philippines, maintaining or improving soil moisture and irrigation supplies for rice and corn. Toward the end of the week, Tropical Cyclone Nida formed east of the Visayan Islands, bringing flooding rainfall to portions of the Eastern Visayas Region. Meanwhile to the south, 50 to 100 mm (locally more) of rain benefited oil palm in eastern Indonesia and Malaysia. Showers were lighter and amounts more variable in western growing areas, where moisture conditions have been more of a concern, particularly in Malaysia.

AUSTRALIA
Total Precipitation (mm)
JUL 24 - 30, 2016



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

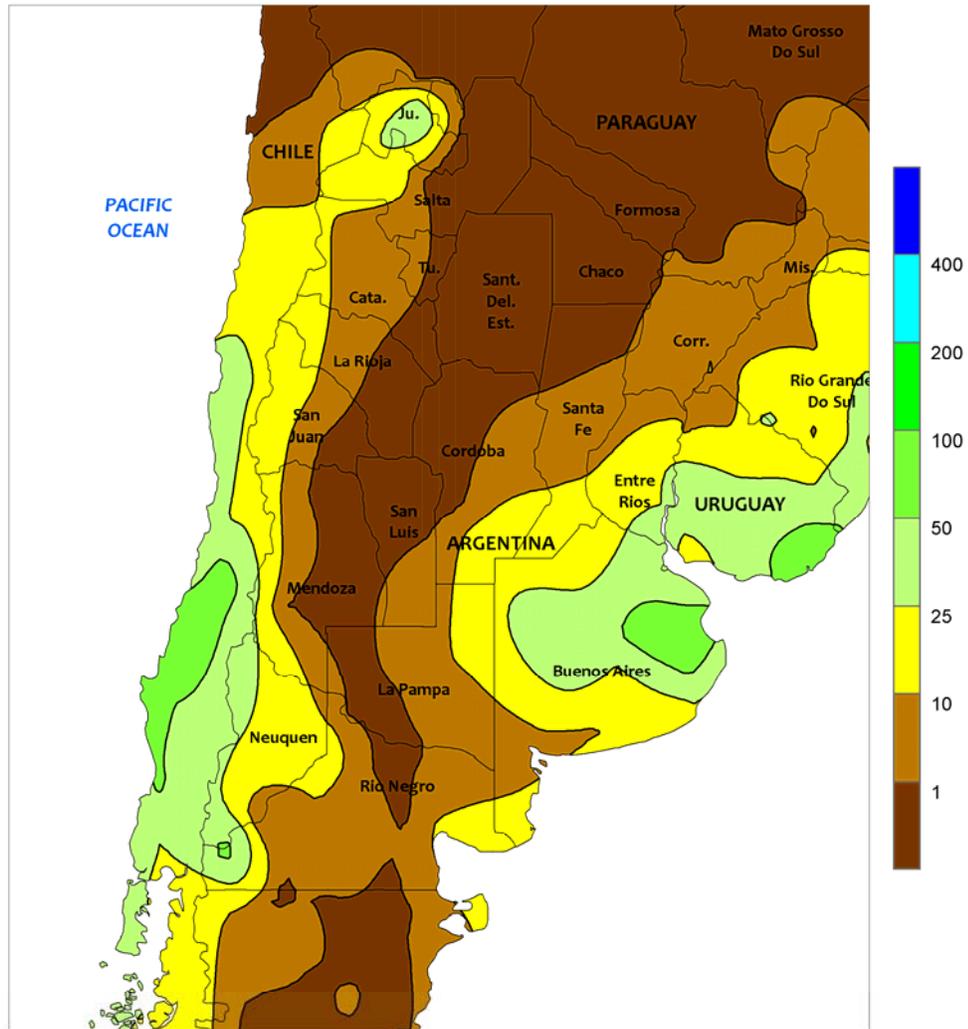


AUSTRALIA

Widespread showers (5-25 mm) in southeastern Australia maintained near ideal growing conditions for vegetative winter grains and oilseeds. Similarly, scattered showers (2-10 mm) in Western Australia further benefited vegetative wheat, barley, and canola. Elsewhere in the wheat belt, dry, mild weather

worked in concert with abundant topsoil moisture to aid wheat and other winter crop development in northern New South Wales and southern Queensland. Temperatures in the wheat belt were generally seasonable, averaging within 1°C of normal in most locations.

ARGENTINA
Total Precipitation (mm)
JUL 24 - 30, 2016



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

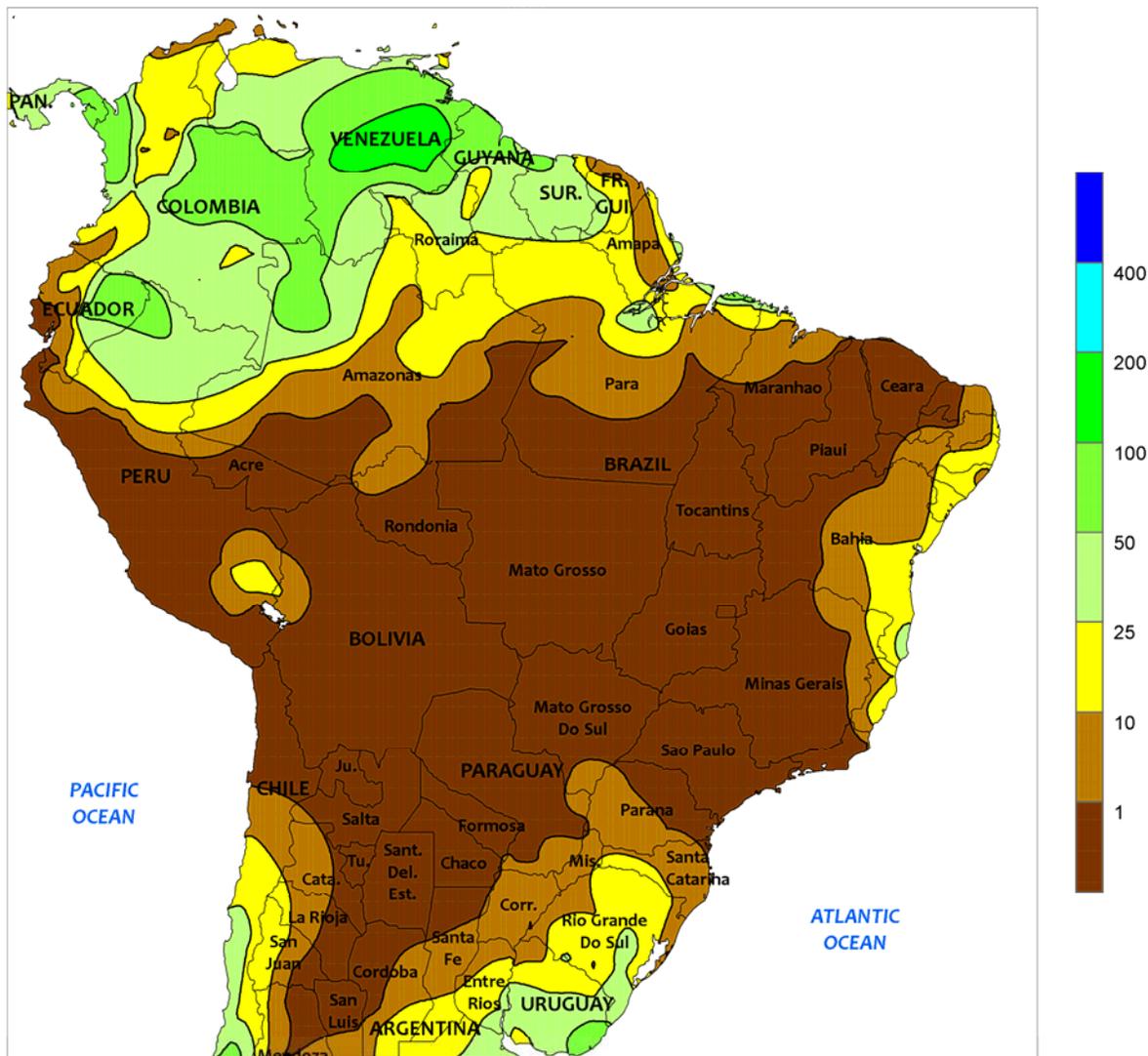


ARGENTINA

Locally heavy rain returned to central Argentina, disrupting autumn fieldwork but providing a boost in moisture for winter grains. The heaviest rain (greater than 25 mm) fell in central and eastern Buenos Aires, reaching northward into Entre Rios. Most other locations — including La Pampa and southern sections of Cordoba and Santa Fe — recorded at least 10 mm. In contrast, mostly dry weather continued across the north. Weekly temperatures averaged

1 to 2°C below normal in central Argentina and up to 2°C above normal in the far north (notably Formosa and Jujuy). The cooler conditions in Argentina’s southern agricultural areas slowed emergence and early development of winter grains. According to Argentina’s Ministry of Agriculture, corn was 64 percent harvested as of July 28, compared with 88 percent last year. Wheat was 86 percent planted, 8 points behind last year’s pace.

BRAZIL
Total Precipitation (mm)
JUL 24 - 30, 2016



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

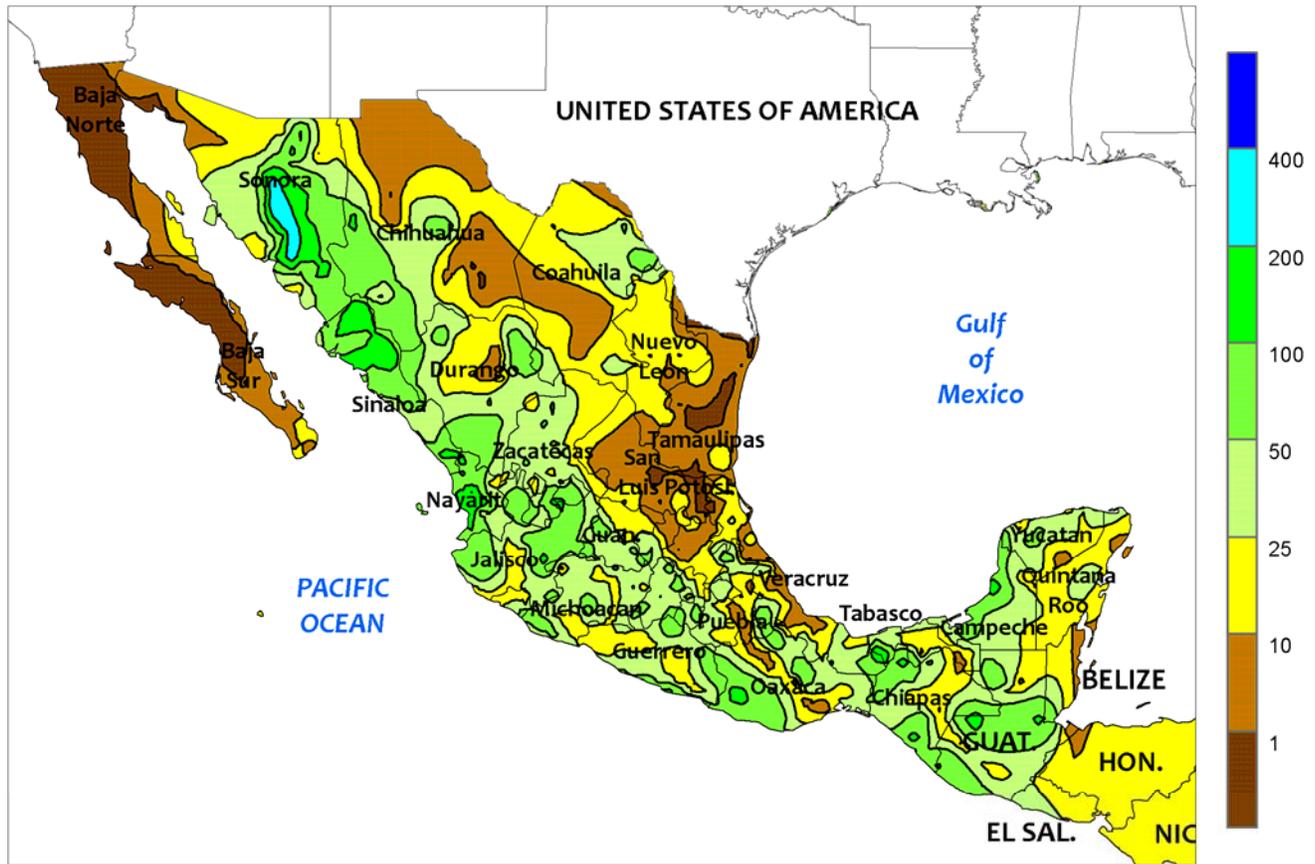


BRAZIL

Mostly dry, seasonably mild weather fostered winter grain growth in southern farming areas. Light rain (5-25 mm) fell in Rio Grande do Sul; otherwise, little to no rain fell. Weekly temperatures averaged 1°C above normal, with daytime highs reaching the middle and upper 20s (degrees C) and nighttime lows briefly falling below 5°C. According to government reports, wheat was fully planted in Parana, with 37 percent of the crop having reached reproduction as of July 25. In addition, second-crop corn was 65 percent harvested, with

about 90 percent of the remaining crop maturing. Wheat planting was also reportedly complete in Rio Grande do Sul, with about 1 percent entering reproduction. Meanwhile, warm, seasonably dry weather promoted rapid maturation of corn and cotton farther north. According to reports from Mato Grosso, corn was about 85 percent harvested as of July 28; cotton was nearly 25 percent harvested as of July 21. Seasonal showers (5-35 mm) increased along the northeastern coast, boosting moisture for sugarcane and cocoa.

MEXICO
Total Precipitation (mm)
JUL 24 - 30, 2016



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

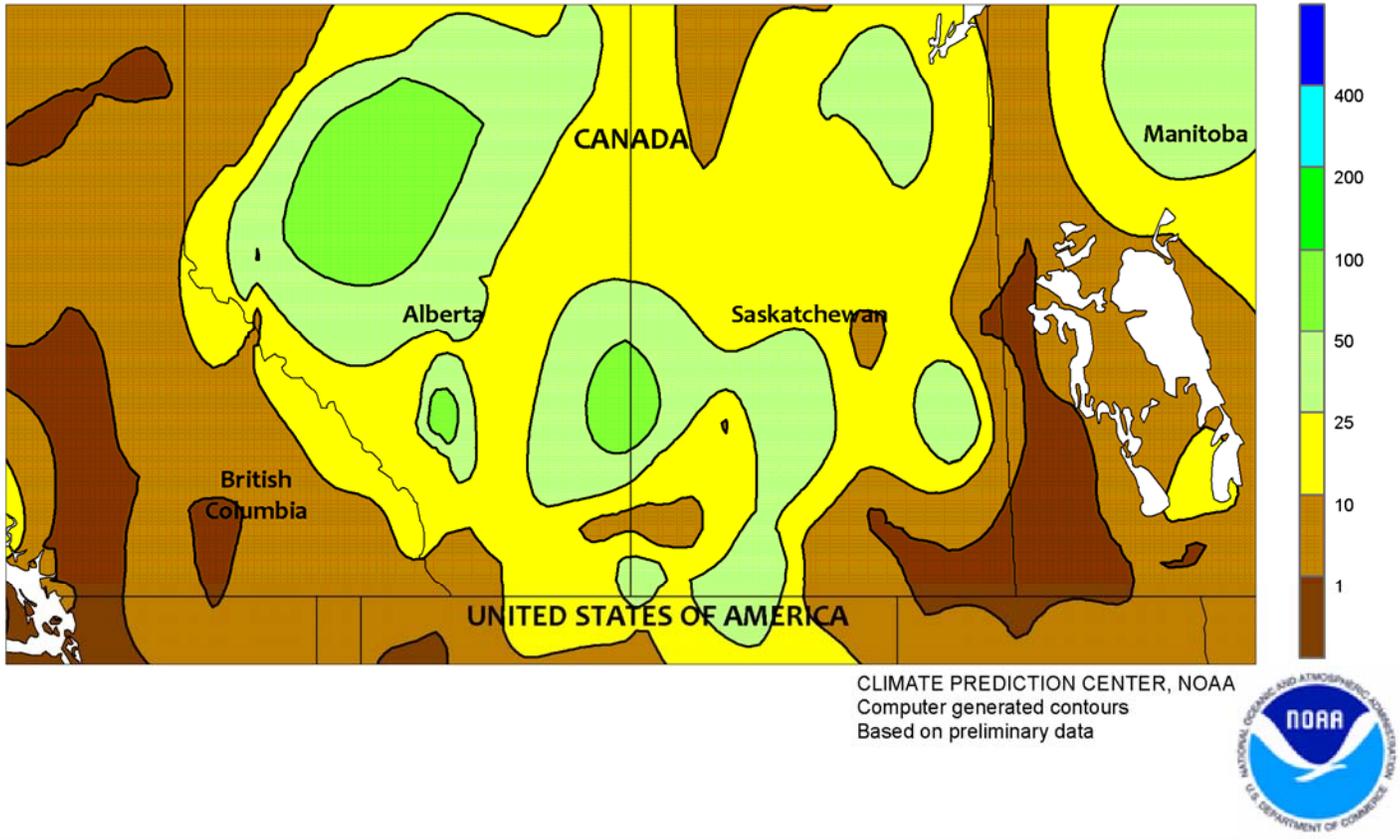


MEXICO

Seasonal showers increased over southern and northwestern Mexico, improving prospects for both rain-fed and irrigated crops. Rainfall totaled 10 to 50 mm across the southern plateau (Jalisco to Puebla) and along the southern Pacific Coast (Michoacan to Chiapas), benefiting corn and other rain-fed summer crops. However, showers tapered off from the previous week’s wetness in Veracruz, with only a few location recording more than 50 mm. Similarly, drier conditions

brought some relief from excessive wetness in Tabasco. Farther north, rain (10-25 mm) boosted local irrigation reserves in the Rio Grande Valley, although unseasonable warmth (daytime highs in excess of 40°C) maintained high moisture requirements of crops and livestock. Monsoon showers intensified farther west, with many northern watersheds — including Sinaloa, southern Sonora, and western Chihuahua — recording well over 50 mm.

CANADIAN PRAIRIES Total Precipitation (mm) JUL 24 - 30, 2016



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

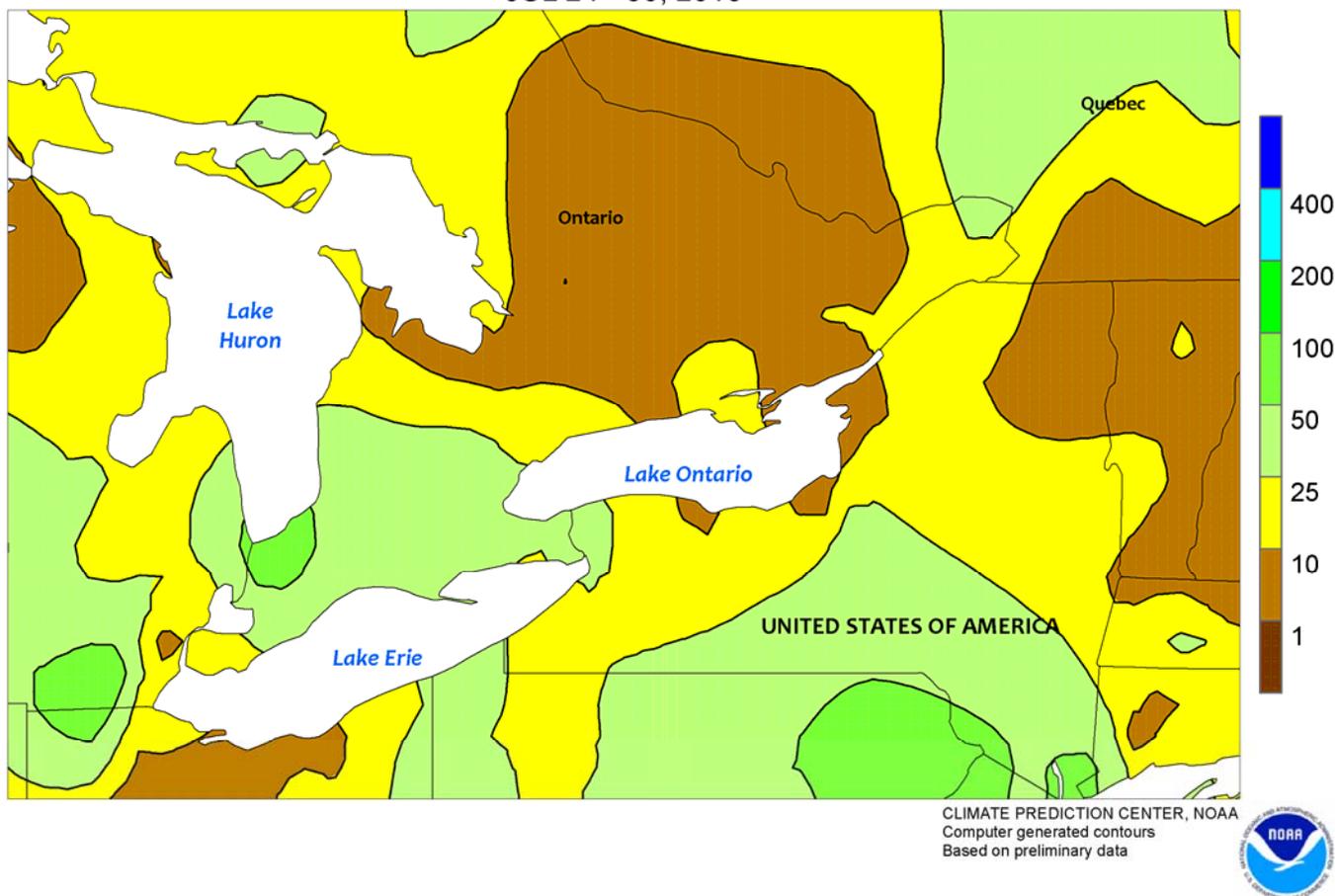


CANADIAN PRAIRIES

Showers increased over the western Prairies as mostly dry, seasonably mild weather fostered rapid growth of spring crops in the east. Rainfall totaling 10 to 40 mm was recorded over most of Alberta, as well as western and northern agricultural districts of Saskatchewan. Weekly temperatures in these areas averaged 1 to 2°C above normal, with daytime highs reaching the lower 30s (degrees C) along the southern border region and the upper 20s elsewhere. Mostly dry weather prevailed in

southeastern Saskatchewan and Manitoba. Weekly average temperatures were near normal; as in the western Prairies, daytime highs reached the upper 20s in most locations, with somewhat higher readings farther south. According to reports emanating from Canada, spring crops are in mostly good to excellent condition and making good progress toward maturity, though damage assessments are still underway in locations that recently experienced severe weather.

SOUTHEASTERN CANADA
 Total Precipitation (mm)
 JUL 24 - 30, 2016



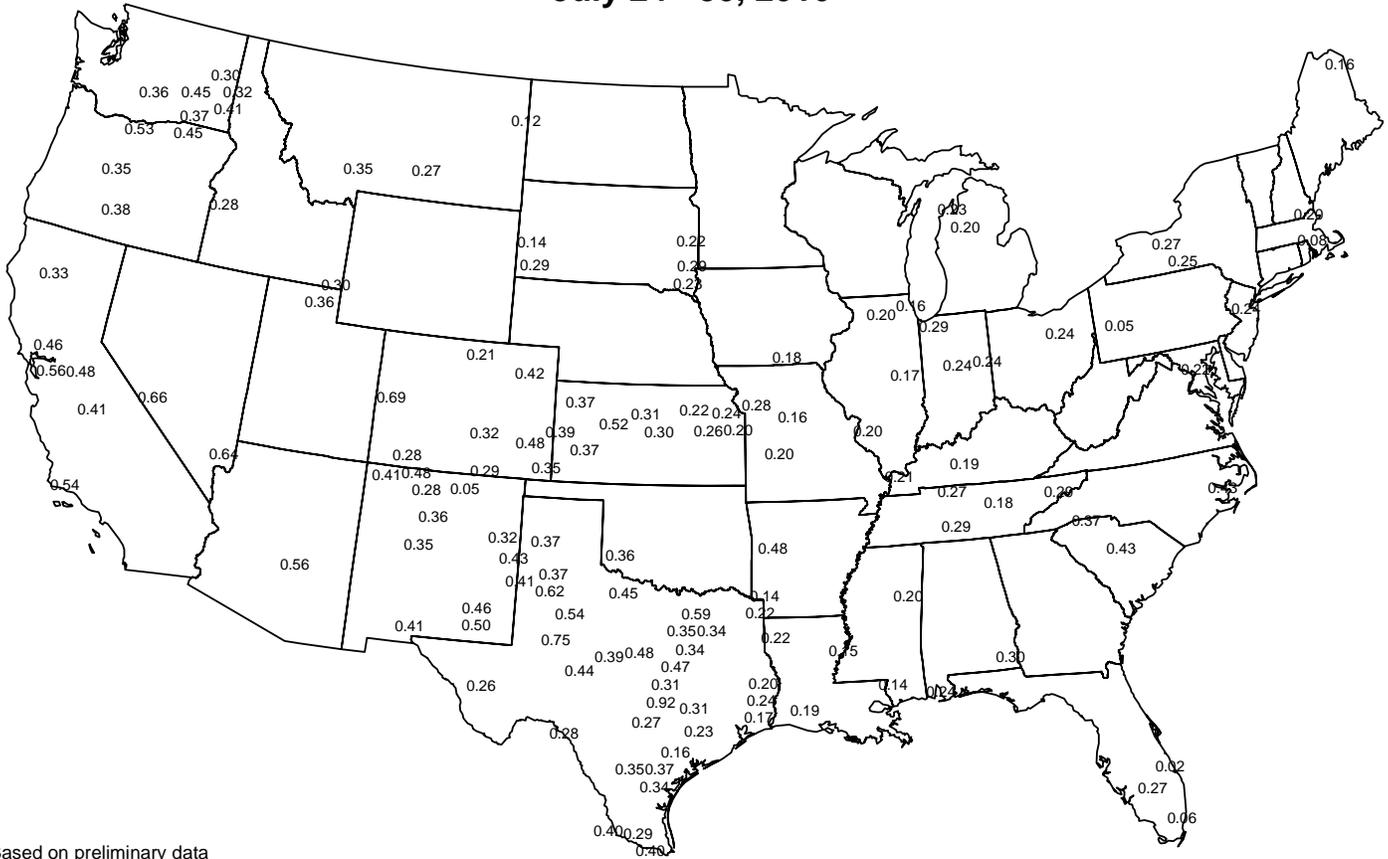
SOUTHEASTERN CANADA

Much-needed rain brought some drought relief to summer crops in Ontario’s southwestern agricultural districts. The heaviest rain (totaling more than 25 mm) was concentrated over farming areas lying to the north of Lake Erie, with much of the inter-lake region recording at least 10 mm. While timely for corn and soybeans advancing through reproduction, the rainfall will not significantly alleviate the drought or fully reverse its effect on crops. In fact, mostly dry weather (rainfall totaling below 10 mm in most areas) persisted in Ontario’s eastern farmlands. Weekly

temperatures averaged 2°C above normal throughout the province, with daytime highs reaching the lower 30s (degrees C) during the early part of the week. According to the Ontario Ministry of Agriculture, Food, and Rural Affairs, winter wheat harvesting was winding down; corn and soybeans were in reproductive to filling stages of development, and some of the effects of the dryness were noted. Meanwhile, showers (5-45 mm) and more seasonable temperatures maintained relatively better conditions for summer crops in Quebec.

Average Pan Evaporation (inches/day)

July 24 - 30, 2016



Based on preliminary data

USDA Agricultural Weather Assessments

Data obtained from the NWS Cooperative Observer Network.

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