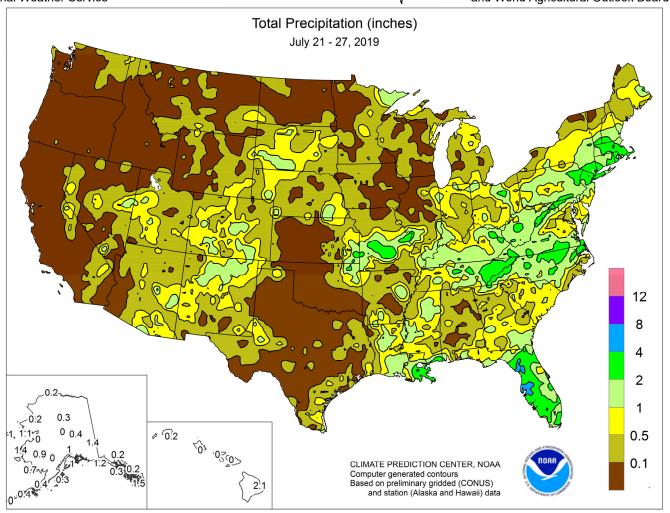
# WEEKLY MATHER AND CROP BULLETIN

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



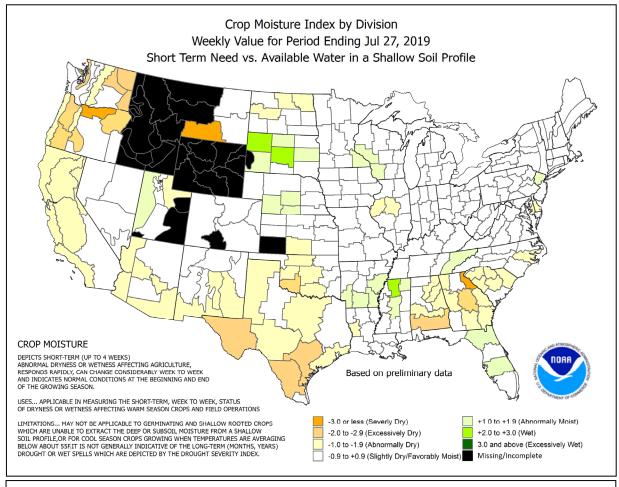
# **HIGHLIGHTS**July 21 – 27, 2019

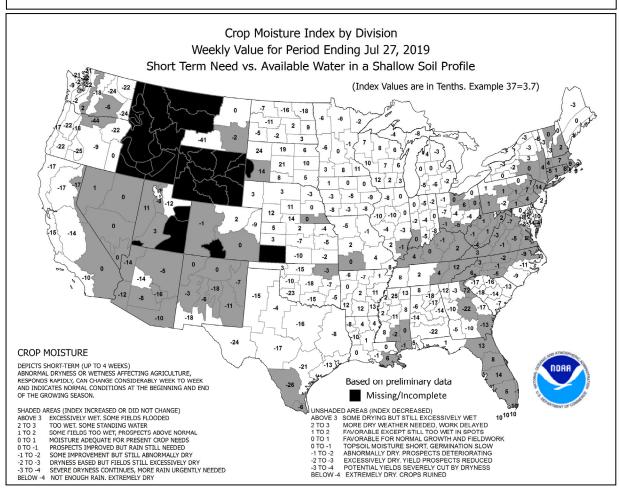
Highlights provided by USDA/WAOB

Scattered to widespread showers and thunderstorms preceded and accompanied a surge of cooler air across the eastern one-third of the country. Some of the heaviest rain, locally 2 to 4 inches or more, fell in parts of Florida. Several other areas, including the southern Mid-Atlantic region and southern New England, also received significant rain. Although extreme heat lingered early in the week along the Atlantic Seaboard, near- or below-normal weekly temperatures prevailed in most areas from the Plains eastward. In fact, weekly temperatures

(Continued on page 3)

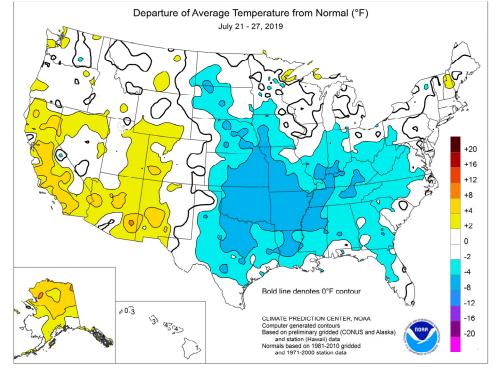
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(Continued from front cover)

averaged more than 5°F below normal in a broad area centered over the southeastern Plains and northern Mississippi Delta. Late in the week, showers developed across parts of the northern Plains and upper Midwest. Meanwhile, a suddenly active monsoon circulation contributed to an increase in shower activity from California to the Four Corners States, curbing the wildfire threat and benefiting rangeland. Despite the showers, Western weekly temperatures averaged at least 5°F above normal in many locations from California into the Southwest. In contrast, little or no rain fell from the Pacific Northwest to the northern High Plains, favoring winter wheat harvesting and the maturation of spring-sown small grains. Mostly dry weather also prevailed on the **southern** Plains, depleting topsoil moisture and increasing stress on rangeland, pastures, and summer crops.

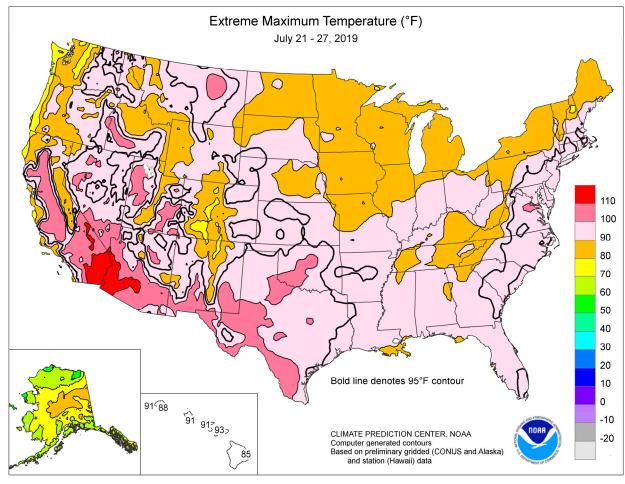


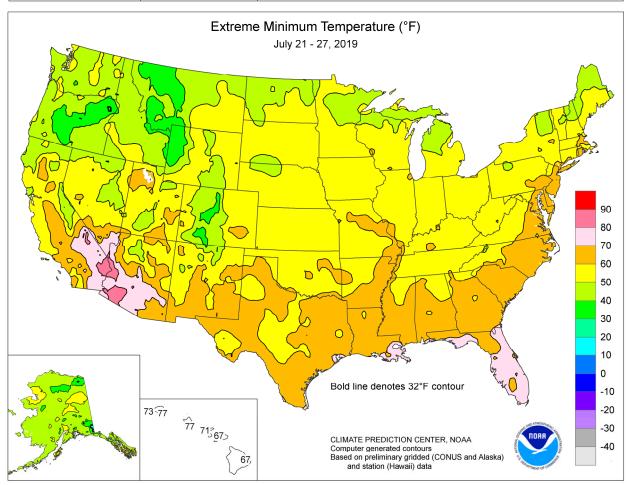
On July 21, the final day of an Eastern heat wave, temperatures soared to 100°F—setting or tying daily records—in Atlantic City, NJ, and at New York's LaGuardia Airport. Extreme heat also lingered across the **south-central U.S.**, where record-setting highs for July 21 soared to 108°F in Roswell, NM, and 106°F in Del Rio, TX. In contrast, Great Falls, MT, reported a daily-record low of 38°F on July 21. It was also the lowest July reading in Great Falls since July 16, 1999, when the temperature fell to 36°F. During the mid- to late-week period, cool air settled across the eastern half of the country. Crossville, TN, notched four consecutive daily-record lows (56, 52, 54, and 56°F) from July 23-26. In the Midwest, record-setting lows for July 23 included 54°F in Springfield, IL, and 57°F in Kansas City, MO. On July 24, daily-record lows fell to 57°F in Joplin, MO; Knoxville, TN; and San Angelo, TX. In fact, San Angelo collected a trio of dailyrecord lows (57, 59, and 60°F) from July 24-26. Farther north, a new surge of cool air resulted in daily-record lows of 40°F on July 25 in Montana locations such as Dunkirk and Stanford. In **Oregon**, **Meacham** registered a daily-record low of 32°F on July 25. Elsewhere, heat (and monsoon-related moisture) overspread coastal southern California. In Long Beach, CA, three consecutive daily-record highs (96, 99, and 97°F) occurred from July 23-25. Long Beach also received measurable rain, totaling 0.01 inch, on July 25.

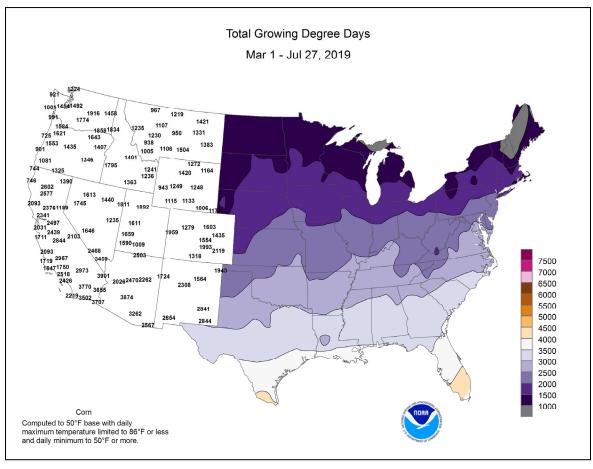
The week began with some heavy rain lingering across the eastern Plains. In Nebraska, record-setting rainfall totals for July 21 reached 3.26 inches in Lincoln and 1.87 inches in Grand Island. Meanwhile, heavy showers also dotted the East, where daily-record totals topped the 2-inch mark in locations such as Roanoke, VA (2.76 inches on July 21); Allentown, PA (2.50 inches on July 22); and Bridgeport, CT (2.28 inches on July 22). On July 22, heavy rain also soaked parts of the mid-South and lower Midwest, with daily-record amounts totaling 3.32 inches in Knoxville, TN, and 3.30 inches in St. Louis, MO. By July 23, a

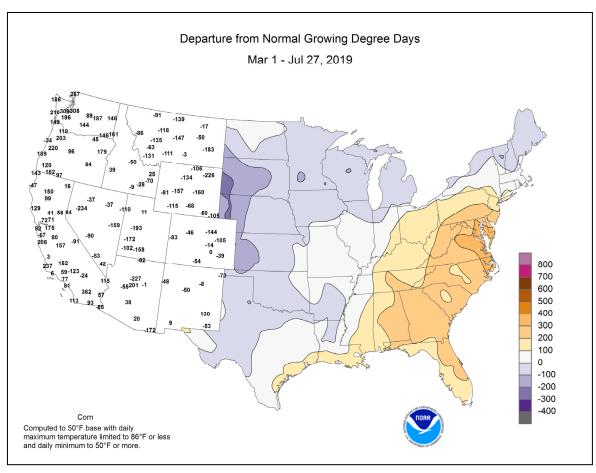
final burst of heavy rain in the **East** led to daily-record totals in **Elizabeth City**, **NC** (2.94 inches); **Norfolk**, **VA** (2.39 inches); **Apalachicola**, **FL** (2.12 inches); and **New York's JFK Airport** (2.07 inches). **Lakeland**, **FL**, received measurable rain each day during the week, totaling 6.11 inches. Late in the week, an increase in **Southwestern** shower activity led to a record-setting total for July 26 in **Clayton**, **NM**, where 1.10 inches fell. In contrast, month-to-date rainfall through July 27 in **central Illinois** totaled just 0.46 inch (10 percent of normal) in **Lincoln** and 0.23 inch (7 percent) in **Springfield**.

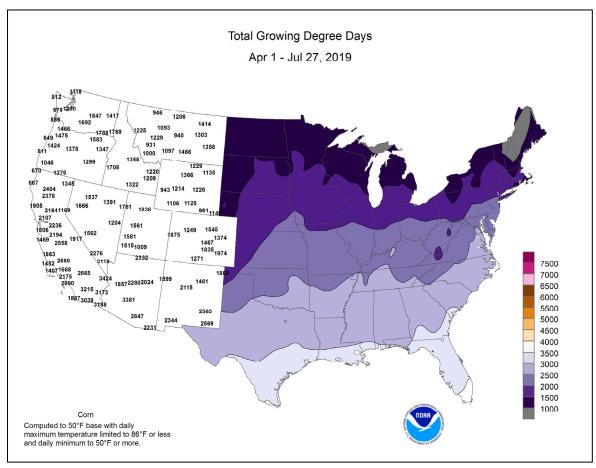
In Alaska, slightly cooler weather and widespread showers aided wildfire containment efforts and provided spotty drought relief. Still, weekly temperatures averaged more than 5°F above normal in parts of Alaska. In addition, Sitka posted a daily-record high of 73°F on July 23. Meanwhile, significant rain dampened some Alaskan locations. For example, McGrath received 1.66 inches of rain on July 23-24, topping its total during the preceding 8 weeks. McGrath reported 1.64 inches of rain from May 28 – July 22. Selected Alaskan weekly (July 21-27) rainfall totals included 2.52 inches in McGrath; 1.44 inches in Yakutat; and 1.13 inches in Nome. Heavy rain continued in Yakutat through July 28, when 3.36 inches fell. Despite the late-July precipitation, more than 80 wildfires were reported to be active across Alaska, according to the National Interagency Fire Center. For the year to date, Alaskan wildfire have consumed more than 2.2 million acres of vegetation. Alaska's largest active wildfire, the 498,000acre Chalkyitsik Complex east of the community of Chalkyitsik, was a little more than 20 percent contained. Farther south, hot, mostly dry weather covered Hawaii, except for some windward showers. Kahului, Maui, noted consecutive daily-record highs of 93°F on July 24-25. During the same period, Lihue, Kauai, also collected consecutive daily records, reporting highs of 88°F both days. At the state's major airport observation sites, July 1-27 rainfall ranged from 0.04 inch (10 percent of normal) in Kahului to 5.33 inches (57 percent) in Hilo, on the Big Island.

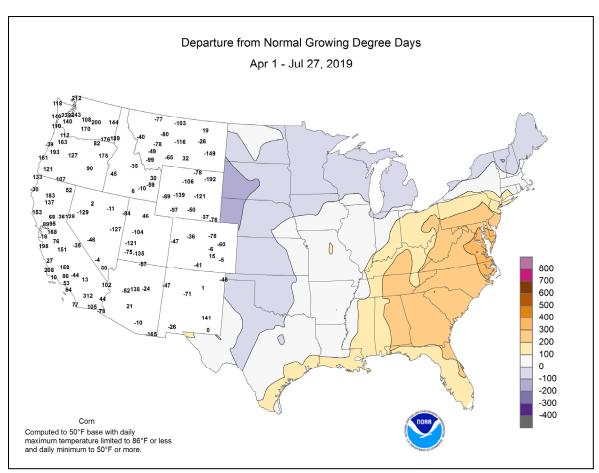












### **National Weather Data for Selected Cities**

Weather Data for the Week Ending July 27, 2019
Data Provided by Climate Prediction Center

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	STATES														PER	CENT	IEW	Р. Г	PRE	CIP
00	AND STATIONS	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	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL	BIRMINGHAM HUNTSVILLE	89 88	69 67	94 92	60 59	79 77	-2 -3	0.01 0.10	-1.14 -0.87	0.01 0.08	7.48 7.05	91 87	31.67 41.98	95 120	84 89	40 53	4	0	1 2	0
	MOBILE	90	72	93	69	81	-3 -1	0.10	-0.62	0.08	12.90	122	34.18	86	94	64	4	0	3	1
	MONTGOMERY	92	68	94	65	80	-2	0.13	-1.03	0.12	6.56	74	27.13	79	88	45	6	0	2	0
AK	ANCHORAGE	70	57	77	56	63	4	0.73	0.32	0.28	0.86	36	5.89	104	86	65	0	0	5	0
	BARROW FAIRBANKS	52 76	45 58	56 86	40 54	48 67	7 5	0.24 0.19	0.03 -0.20	0.11 0.19	2.70 1.95	278 69	5.66 5.43	370 112	96 79	80 57	0	0	5 1	0
	JUNEAU	66	51	74	44	59	2	0.19	-0.20 -0.21	0.19	5.36	79	23.06	90	98	84	0	0	5	0
	KODIAK	67	54	69	52	60	5	0.26	-0.59	0.14	5.99	66	34.41	86	87	70	0	0	2	0
	NOME	55	49	62	48	52	-1	1.13	0.60	1.06	3.88	138	11.02	170	93	81	0	0	4	1
ΑZ	FLAGSTAFF	84	55	87	52	70	3	0.14	-0.50	0.12	0.28	12	15.45	132	72	25	0	0	2	0
	PHOENIX	108	86	113	80	97	4	0.01	-0.24	0.01	0.01	1	3.03	78	46	29	7	0	1	0
	PRESCOTT TUCSON	92 103	66 77	95 108	61 73	79 90	5 4	0.75 0.28	-0.01 -0.27	0.51 0.18	0.92 0.59	36 33	9.72 5.62	104 112	67 61	23 34	5 7	0	4 3	1 0
AR	FORT SMITH	90	68	97	65	79	-4	0.28	-0.27	0.18	11.74	164	38.31	152	94	47	2	0	1	0
	LITTLE ROCK	87	66	94	60	77	-6	0.00	-0.68	0.00	7.27	105	41.92	143	91	47	2	0	0	0
CA	BAKERSFIELD	102	77	106	71	90	6	0.00	0.00	0.00	0.23	192	6.50	141	46	26	7	0	0	0
	FRESNO	104	75	106	69	90	8	0.00	0.00	0.00	0.00	0	9.52	121	48	32	7	0	0	0
	LOS ANGELES	79	66	87	63	73	3	0.05	0.05	0.05	0.05	63	12.86	136	85	64	0	0	1	0
	REDDING SACRAMENTO	102 97	68 63	107 102	64 58	85 80	3 4	0.00	0.00	0.00	0.00	0 0	31.08 19.36	142 162	56 71	27 20	7 7	0	0	0
	SAN DIEGO	80	69	84	67	75	4	0.00	0.00	0.00	0.00	11	8.42	110	87	67	0	0	0	0
	SAN FRANCISCO	75	57	83	55	66	3	0.00	0.00	0.00	0.00	0	18.42	138	84	65	0	0	0	0
	STOCKTON	101	65	103	61	83	5	0.00	0.00	0.00	0.00	0	12.48	139	59	29	7	0	0	0
CO	ALAMOSA	84	49	88	47	67	3	0.07	-0.15	0.06	0.52	40	5.20	150	87	37	0	0	2	0
	CO SPRINGS	85	59	89	56	72	2	0.44	-0.26	0.37	3.30	72	8.99	87	84	33	0	0	4	0
	DENVER INTL GRAND JUNCTION	90 96	62 69	95 102	57 64	76 82	3 5	1.10 0.02	0.55 -0.15	1.10 0.01	4.36 0.85	125 98	11.70 6.69	136 139	76 53	27 31	4 5	0	1 2	1 0
	PUEBLO	91	63	96	61	77	1	0.02	0.26	0.01	4.57	155	9.00	124	88	45	5	0	4	0
СТ	BRIDGEPORT	85	69	99	64	77	2	2.86	2.01	2.28	10.46	154	32.35	126	83	60	1	0	2	2
	HARTFORD	87	63	100	56	75	1	1.68	0.86	0.87	4.71	67	29.51	114	87	48	1	0	2	2
DC	WASHINGTON	89	71	99	65	80	1	0.50	-0.35	0.37	10.76	172	28.78	129	79	44	3	0	4	0
DE FL	WILMINGTON DAYTONA BEACH	89	67	97	63	78	1	1.94	0.98	1.43	14.16	194	34.22	137	93	46	2	0	3	1
FL	JACKSONVILLE	88 88	73 72	90 94	72 71	80 80	-2 -2	0.64 0.91	-0.45 -0.39	0.59 0.50	16.07 9.54	157 90	27.41 22.10	106 79	100 95	69 62	3	0	3 4	1
	KEY WEST	90	78	91	74	84	-1	2.39	1.69	1.55	3.72	51	14.50	79	80	65	5	0	4	1
	MIAMI	94	76	102	74	85	1	3.29	2.12	1.70	21.63	159	34.84	120	88	54	7	0	2	2
	ORLANDO	90	73	93	72	81	-1	1.60	0.11	0.73	14.08	102	25.70	91	92	63	5	0	5	1
	PENSACOLA	90	74	91	72	82	-1	0.47	-1.33	0.43	12.33	92	27.24	72	94	60	5	0	2	0
	TALLAHASSEE TAMPA	90	72	93	71	81	-1	0.42	-1.39	0.30	13.65	98	25.96	67	94	62	5	0	3	0
	WEST PALM BEACH	88 92	75 77	91 95	73 75	82 84	-1 1	2.94 2.02	1.49 0.83	1.70 1.33	19.74 10.10	179 78	36.19 31.11	154 97	89 89	69 57	3 7	0	6 2	2 2
GA	ATHENS	89	66	93	63	78	-2	0.29	-0.70	0.23	8.33	108	24.36	84	84	54	4	0	2	0
	ATLANTA	88	70	91	67	79	-1	0.16	-1.00	0.16	8.40	104	29.56	96	77	48	1	0	1	0
	AUGUSTA	95	68	99	62	81	0	0.81	-0.09	0.81	7.79	102	22.27	83	84	39	7	0	1	1
	COLUMBUS	90	71	92	67	81	-1	0.25	-0.91	0.24	10.34	132	27.90	92	85	42	4	0	2	0
	MACON SAVANNAH	92 92	66 72	94 97	60 68	79 82	-2 0	0.31 1.12	-0.65 -0.25	0.31 1.12	7.70 15.74	106 148	21.11 26.41	76 94	92 90	42 49	5 5	0	1 1	0
н	HILO	84	70	85	67	77	1	2.06	-0.25	0.62	9.41	57	43.94	63	90	74	0	0	6	2
	HONOLULU	90	79	91	77	84	3	0.00	-0.11	0.00	5.80	734	8.88	92	68	61	6	0	0	0
	KAHULUI	93	72	93	67	83	4	0.01	-0.10	0.01	0.07	12	9.35	82	70	58	7	0	1	0
ID	LIHUE	87	78	88	77	82	3	0.22	-0.28	0.11	7.25	202	15.71	75	80	72	0	0	4	0
ID	BOISE LEWISTON	94 95	65 61	102 103	57 53	80 78	4 3	0.00	-0.06 -0.11	0.00 0.03	0.04 1.23	4 70	12.11 9.17	160 117	45 45	26 27	5 6	0	0 1	0
	POCATELLO	95 92	57	99	53 49	78 75	3 5	0.03	-0.11 -0.14	0.03	0.55	38	9.17	117	53	30	5	0	0	0
IL	CHICAGO/O'HARE	82	65	89	62	74	0	0.76	-0.03	0.76	6.67	102	27.89	142	76	50	0	0	1	1
	MOLINE	87	66	88	59	76	0	0.00	-0.88	0.00	5.68	70	30.86	139	77	47	0	0	0	0
	PEORIA	85	65	88	59	75	0	0.04	-0.83	0.04	7.05	96	31.35	149	80	46	0	0	1	0
	ROCKFORD	84	64	89	59	74	1	0.00	-0.85	0.00	5.95	71	28.32	134	83	51	0	0	0	0
IN	SPRINGFIELD EVANSVILLE	86 85	63 64	90 94	54 59	74 74	-2 -5	0.00 1.20	-0.77 0.39	0.00 1.10	7.37 9.81	109 133	30.48 39.56	147 146	91 86	47 50	1	0	0	0
	FORT WAYNE	82	60	94	55	71	-5 -3	0.28	-0.49	0.25	4.95	69	23.81	112	91	47	1	0	2	0
	INDIANAPOLIS	83	63	92	58	73	-3	0.85	-0.14	0.83	10.69	135	33.82	140	83	48	1	0	2	1
	SOUTH BEND	80	59	85	53	69	-4	1.05	0.27	1.05	7.84	105	28.37	131	89	53	0	0	1	1
IA	BURLINGTON	85	65	89	58	75	-2	0.16	-0.82	0.12	5.72	70	28.41	129	87	49	0	0	3	0
	CEDAR RAPIDS	83	62	86	55	72	-3	0.22	-0.66	0.22	6.02	75	24.41	125	94	52	0	0	1	0
	DES MOINES DUBUQUE	83	65 63	90	58 58	74 72	-3 1	0.36 0.05	-0.56 0.78	0.33	8.93	109	26.98	132	82 97	54 50	1	0	2	0
	SIOUX CITY	81 82	63 60	84 89	58 53	72 71	-1 -4	0.05	-0.78 -0.65	0.05 0.07	8.27 8.70	114 134	26.02 23.08	129 143	87 95	59 66	0	0	1	0
	WATERLOO	85	63	90	57	74	0	0.07	-0.80	0.00	8.30	98	24.35	122	84	47	2	0	1	0
KS	CONCORDIA	87	65	93	56	76	-4	0.02	-0.93	0.02	7.64	101	22.73	126	77	45	2	0	1	0
	DODGE CITY	91	63	96	55	77	-3	0.00	-0.71	0.00	4.30	73	16.10	113	76	33	5	0	0	0
	GOODLAND TOPEKA	88 86	61 63	95 91	57 58	75 74	-1 -5	0.16 0.44	-0.64 -0.37	0.16 0.44	3.77 7.92	61 96	11.58 27.08	87 129	88 86	52 47	4	0	1	0
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Based on 1971-2000 normals

\*\*\* Not Available

Weekly Weather and Crop Bulletin
Weather Data for the Week Ending July 27, 2019

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		7	ГЕМЕ	PERA	TUR	E °	F			PREC	CIPITA	ATION	I		HUM	IDITY		IP. °F		CIP
	STATES		ı						1	1	1		1		PER	CENT				
S	AND STATIONS	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 JANO1	PCT. NORMAL SINCE JAN01	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
KY	WICHITA JACKSON	91 82	65 62	95 88	58 57	78 72	-4 -3	0.00 1.50	-0.70 0.48	0.00 1.35	7.36 14.80	103 171	27.06 38.03	146 130	78 99	41 58	4	0	0	0
	LEXINGTON	85	64	89	57	74	-2	1.21	0.14	0.78	10.32	118	33.69	119	84	49	0	0	2	1
	LOUISVILLE PADUCAH	87 86	67 64	93 91	63 59	77 75	-2 -3	0.18 1.67	-0.80 0.75	0.18 1.17	8.81 12.68	118 149	36.18 51.22	133 171	79 90	42 55	2	0	1 2	0 2
LA	BATON ROUGE	89	71	92	66	80	-2	1.34	0.02	1.05	13.95	133	41.61	110	93	54	5	0	4	1
	LAKE CHARLES	89	73	94	69	81	-2	0.45	-0.62	0.33	13.18	124	41.65	127	87	59	4	0	3	0
	NEW ORLEANS SHREVEPORT	90 92	77 70	92 96	74 66	83 81	0 -3	6.65 0.00	5.39 -0.81	2.88 0.00	15.39 8.54	124 99	42.42 31.26	110 100	82 86	66 43	3 5	0	4 0	3
ME	CARIBOU	79	54	88	47	66	0	0.12	-0.78	0.11	4.75	72	23.36	116	87	42	0	0	2	0
	PORTLAND	80	62	94	58	71	2	0.80	0.07	0.63	8.38	137	29.84	117	90	53	1	0	2	1
MD MA	BALTIMORE BOSTON	90 81	67 69	100 98	61 63	79 75	2	0.69 1.88	-0.19 1.22	0.58 0.98	6.80 9.70	101 166	25.50 29.89	106 126	84 79	45 52	3	0	2 2	1 2
IVIA	WORCESTER	79	63	89	59	71	0	1.98	1.04	1.08	8.18	108	31.43	115	92	56	0	0	2	2
MI	ALPENA	82	56	87	48	69	2	0.52	-0.22	0.50	4.88	95	21.09	138	89	44	0	0	3	1
	GRAND RAPIDS HOUGHTON LAKE	82 80	62 55	87 84	54 47	72 68	0 1	0.14 0.80	-0.60 0.19	0.13 0.80	8.00 6.82	117 131	27.83 22.32	141 149	80 86	45 50	0	0	2	0
	LANSING	82	61	86	52	71	0	0.80	-0.15	0.80	9.92	166	25.52	149	82	51	0	0	2	0
	MUSKEGON	81	61	87	54	71	0	0.21	-0.31	0.21	5.92	132	28.10	171	81	49	0	0	1	0
MN	TRAVERSE CITY DULUTH	81 83	59 60	87 87	51 54	70 72	0 6	0.25 0.39	-0.40 -0.50	0.19 0.39	6.42 5.22	106 66	23.75 17.85	133 107	86 76	45 49	0	0	2	0
IVIII	INT'L FALLS	80	56	85	51	68	1	0.20	-0.48	0.19	7.54	108	16.46	123	99	51	0	0	2	0
	MINNEAPOLIS	83	64	86	60	74	0	0.13	-0.75	0.13	9.88	126	27.29	160	78	45	0	0	1	0
	ROCHESTER ST. CLOUD	80 83	60 57	84 88	56 54	70 70	0	0.00 1.15	-1.04 0.46	0.00 1.15	16.39 8.15	206 109	37.61 23.22	208 151	89 97	53 42	0	0	0	0
MS	JACKSON	89	69	93	64	79	-3	0.80	-0.25	0.59	8.44	109	37.68	109	87	47	3	0	2	1
	MERIDIAN	90	68	95	64	79	-3	0.09	-1.13	0.08	6.56	75	39.41	105	89	56	5	0	2	0
МО	TUPELO COLUMBIA	88	67	93 90	60 62	78 76	-3 -2	2.76 0.82	2.01 -0.01	1.92 0.79	15.75 7.58	194 104	53.73 30.27	154 129	87	51 47	3	0	2 2	2
IVIO	KANSAS CITY	86 84	66 62	90 89	58	73	-2 -6	0.62	-0.01	0.79	10.78	104	35.33	161	88 90	49	0	0	1	1
	SAINT LOUIS	86	69	91	63	78	-3	3.31	2.46	3.31	9.66	134	36.03	157	78	47	1	0	1	1
MT	SPRINGFIELD BILLINGS	86	65	95	58	76	-3	0.33	-0.33	0.31	7.23	87	34.51	136	87	49	1	0	2	0
IVII	BUTTE	92 85	64 48	98 91	59 37	78 67	5 3	0.04 0.00	-0.21 -0.30	0.04 0.00	4.74 2.15	156 64	13.55 8.38	139 102	57 66	25 16	6	0	1	0
	CUT BANK	84	49	95	37	67	3	0.02	-0.28	0.02	3.00	78	7.89	96	73	18	1	0	1	0
	GLASGOW GREAT FALLS	91	60	102	53	75	4	0.01	-0.34	0.01	5.09	135	9.65	132	68	31	3	0	1	0
	HAVRE	89 91	49 53	98 99	38 45	69 72	2	0.00 0.20	-0.30 -0.11	0.00 0.20	3.12 3.67	90 114	12.65 8.38	132 112	71 80	18 32	3 5	0	0	0
	MISSOULA	88	50	94	44	69	1	0.03	-0.19	0.02	1.63	61	9.44	111	69	32	3	0	2	0
NE	GRAND ISLAND LINCOLN	84	63	90	56	73	-3	1.87	1.18	1.87	10.31	160	26.14	160	78	56	1	0	1	1
	NORFOLK	83 82	63 60	90 88	55 51	73 71	-5 -4	3.27 0.21	2.47 -0.58	3.26 0.17	8.41 6.23	129 82	23.68 21.69	138 125	80 90	55 59	1	0	2 2	1 0
	NORTH PLATTE	86	61	91	55	73	-2	2.84	2.14	2.82	10.38	175	23.24	174	88	49	2	0	2	1
	OMAHA SCOTTSBLUFF	83	66	91	59	74	-3	0.44	-0.40	0.43	6.11	84	21.34	116	82	57	1	0	2	0
	VALENTINE	90 87	63 59	99 95	59 48	76 73	2 -2	0.29 0.42	-0.13 -0.33	0.29 0.33	5.14 9.07	112 153	20.45 24.81	180 191	89 82	53 54	4	0	1 3	0
NV	ELY	87	55	95	47	71	3	0.42	0.28	0.28	0.65	60	11.99	206	68	30	2	0	2	0
	LAS VEGAS RENO	105	86	109	81	96	4	0.00	-0.11	0.00	0.03	8	4.63	176	29	22	7	0	0	0
	WINNEMUCCA	95 95	66 57	99 101	61 51	81 76	9	0.25 0.03	0.22 0.00	0.14 0.03	0.25 0.14	39 16	8.76 7.16	191 140	56 55	31 23	6	0	2	0
NH	CONCORD	83	59	94	52	71	0	2.26	1.52	1.71	***	***	***	***	94	45	1	0	2	2
NJ NM	NEWARK ALBUQUERQUE	87 92	71 68	99 99	67 66	79 80	1 2	2.39 1.06	1.30 0.74	1.78 1.06	11.22 2.01	152 126	35.17 5.46	131 129	78 65	51 28	1 5	0	2	2
NY	ALBANY	92 84	63	99	59	73	1	2.07	1.33	1.64	8.71	130	25.03	117	88	44	1	0	2	1
	BINGHAMTON	78	60	87	54	69	0	0.78	0.05	0.69	8.13	118	26.25	120	81	59	0	0	2	1
	BUFFALO ROCHESTER	81 82	64 61	85 88	57 57	72 72	1 1	0.01 0.12	-0.65 -0.49	0.01 0.12	5.69 6.57	87 112	24.01 19.56	112 106	83 85	43 52	0	0	1	0
	SYRACUSE	83	62	89	5 <i>1</i>	72	1	0.12	-0.49	0.12	6.98	96	25.43	117	85	52 47	0	0	1	1
NC	ASHEVILLE	82	61	88	55	71	-2	1.28	0.43	0.76	10.06	130	37.20	132	89	53	0	0	3	1
	CHARLOTTE GREENSBORO	89 86	66 66	93 95	61 62	77 76	-3 -2	0.89 3.02	0.04 2.02	0.67 2.25	9.47 12.46	143 169	30.94 32.73	123 130	85 93	44 51	2 2	0	2 2	1 2
	HATTERAS	85	76	95 89	73	81	-2 1	0.33	-0.87	0.27	4.90	63	32.73	112	89	69	0	0	2	0
	RALEIGH	89	66	99	62	78	-1	1.24	0.26	1.16	7.43	105	27.85	110	90	54	2	0	2	1
ND	WILMINGTON BISMARCK	90 84	70 57	97 89	64 51	80 71	-1 0	0.04 0.12	-1.72 -0.43	0.04 0.12	6.96 6.47	59 134	18.35 13.95	58 135	89 85	43 44	4	0	1	0
טאי	DICKINSON	82	53	89 89	49	68	-3	0.12	-0.43	0.12	5.32	101	13.95	135	88	44	0	0	1	0
	FARGO	83	60	87	52	71	0	0.03	-0.56	0.03	8.03	133	18.05	144	94	45	0	0	1	0
	GRAND FORKS JAMESTOWN	84	55 57	88 84	48 53	69 69	-1 -3	0.05	-0.61	0.05	5.83	103	13.84	123	89 94	39 47	0	0	1	0
	WILLISTON	81 87	57 54	84 95	53 49	71	-3 1	0.00	-0.69 -0.47	0.00	8.15 6.89	139 158	16.35 11.06	143 123	94 84	47 40	1	0	0	0
ОН	AKRON-CANTON	83	63	93	58	73	1	0.94	0.04	0.68	15.07	215	33.93	152	84	51	1	0	2	1
	CINCINNATI CLEVELAND	83 82	64 64	91 88	60 60	74 73	-3 1	0.65	-0.18 0.27	0.35	10.43	136 152	38.34	149 135	82 86	51 50	1	0	2	0
	COLUMBUS	82 84	64 62	88 94	60 57	73	1 -2	1.00 0.86	0.27 -0.16	0.54 0.79	10.61 10.24	152 127	29.01 32.53	135 143	86 85	50 47	1	0	2	1
	DAYTON	82	63	91	58	72	-3	1.89	1.09	1.86	9.44	126	33.90	142	87	50	1	0	2	1
	MANSFIELD	81	61	91	57	71	0	2.45	1.53	2.17	15.91	195	36.40	146	97	50	1	0	2	1

Based on 1971-2000 normals

\*\*\* Not Available

Weekly Weather and Crop Bulletin
Weather Data for the Week Ending July 27, 2019

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		1	ГЕМЕ	PERA	TUR	E °	F			PREC	CIPITA	ATION	I		HUM	IDITY		IP. °F		CIP
	STATES														PER	CENT	IEW	IF. F	PK	:CIP
S	AND STATIONS	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	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
	TOLEDO YOUNGSTOWN	85 82	62 60	92 91	58 55	73 71	0	0.88 0.39	0.33 -0.47	0.67 0.34	9.04 12.15	144 161	26.83 34.29	141 158	83 85	45 50	1	0	3 2	1
OK	OKLAHOMA CITY	90	64	100	59	77	-6	0.00	-0.59	0.00	7.00	96	30.89	144	88	35	2	0	0	0
OR	TULSA	89	66	98	62	78	-6	0.48	-0.10	0.43	10.38	140	37.55	153	88	49	2	0	2	0
OR	ASTORIA BURNS	71 91	55 50	76 95	51 43	63 71	2 4	0.11 0.00	-0.06 -0.08	0.09	2.50 1.05	68 107	24.50 11.09	67 173	92 57	72 25	0 6	0	2	0
	EUGENE	88	51	95	44	70	3	0.00	-0.09	0.00	0.58	28	22.65	80	82	48	2	0	0	0
	MEDFORD	94	61	98	55	77	3	0.00	-0.06	0.00	0.01	1	13.86	141	57	23	7	0	0	0
	PENDLETON	92	58	97	49	75	1	0.02	-0.06	0.01	0.33	30	9.61	130	48	25	5	0	2	0
	PORTLAND SALEM	86 86	60 54	92 93	55 52	73 70	4 2	0.00	-0.11 -0.07	0.00	1.25 0.85	56 43	14.17 19.40	70 88	73 83	50 48	3 2	0	0	0
PA	ALLENTOWN	87	65	96	61	76	2	3.26	2.30	2.50	14.73	193	41.10	162	85	49	1	0	3	2
	ERIE	81	64	89	60	73	0	0.53	-0.13	0.48	6.73	94	23.35	107	72	55	0	0	2	0
	MIDDLETOWN PHILADELPHIA	88	68	97	65	78	2	0.70	-0.08	0.60	8.34	119	30.67	130	85	42	2	0	2	1
	PITTSBURGH	88 81	69 61	98 89	65 56	79 71	1 -2	0.87 1.14	-0.14 0.30	0.50 0.69	13.95 13.21	198 173	35.13 34.17	143 151	77 94	45 50	3	0	2 2	1 1
ĺ	WILKES-BARRE	85	63	93	58	74	1	2.34	1.57	1.89	12.85	176	32.24	150	91	47	1	0	3	1
5.	WILLIAMSPORT	85	63	95	58	74	1	0.72	-0.11	0.69	12.49	153	33.00	137	90	49	1	0	2	1
RI SC	PROVIDENCE CHARLESTON	82 90	67 71	96 94	63 68	75 81	1 -1	1.83 0.71	1.13 -0.64	1.01 0.71	8.18 16.70	135 149	31.98 24.41	122 85	89 91	59 47	1	0	3 1	2
00	COLUMBIA	91	69	96	63	80	-2	1.25	0.01	1.25	11.92	122	23.83	82	82	44	4	0	1	1
	FLORENCE	94	72	100	67	83	2	1.19	-0.04	1.19	9.08	104	22.42	86	87	38	6	0	1	1
CD	GREENVILLE	87	66	91	60	76	-3	0.22	-0.85	0.20	8.27	105	29.31	98	85	46	2	0	2	0
SD	ABERDEEN HURON	84 83	58 61	91 92	54 57	71 72	-2 -2	0.00 0.01	-0.61 -0.58	0.00 0.01	7.95 8.34	131 143	18.79 23.02	146 166	87 93	51 50	1	0	0	0
	RAPID CITY	84	59	92	54	71	-2	0.20	-0.21	0.13	8.63	188	25.88	229	88	45	1	0	2	0
	SIOUX FALLS	84	62	91	54	73	-1	0.03	-0.60	0.03	9.48	157	27.54	185	86	55	2	0	1	0
TN	BRISTOL CHATTANOOGA	84 89	61 67	90 91	54 61	72 78	-2 -2	1.73 0.35	0.80 -0.69	0.87 0.35	11.01 7.13	145 87	37.42 41.70	144 126	95 90	46 49	1	0	3	2
	KNOXVILLE	85	64	90	57	75	-3	4.23	3.19	3.34	12.90	158	45.10	147	92	49	1	0	2	2
	MEMPHIS	88	69	92	62	78	-5	0.36	-0.53	0.36	16.36	202	47.07	142	88	49	2	0	1	0
TX	NASHVILLE ABILENE	89 93	66	97	60	77	-3 -3	2.70	1.88	2.63	12.37	167 99	42.39	147	88	44	4	0	3	1
1.	AMARILLO	93	69 65	99 99	62 60	81 78	-3 0	0.00	-0.34 -0.58	0.00	4.46 5.55	99	18.80 13.32	150 114	73 64	38 28	4 5	0	0	0
	AUSTIN	93	67	98	58	80	-5	0.00	-0.41	0.00	5.60	102	24.78	130	76	36	6	0	0	0
	BEAUMONT	90	73	93	68	82	-1	3.21	2.15	1.58	20.37	180	44.13	131	86	65	4	0	4	2
	BROWNSVILLE CORPUS CHRISTI	94 94	76 72	98 96	72 68	85 83	1 -1	2.56 0.56	2.25 0.17	2.12 0.51	6.94 3.17	153 60	12.62 12.82	101 80	95 91	63 53	7 7	0	4 2	1
	DEL RIO	99	72	103	67	85	-1	0.00	-0.41	0.00	7.85	191	13.26	125	64	40	7	0	0	0
	EL PASO	97	74	106	68	86	3	0.09	-0.25	0.09	1.15	56	1.86	49	45	22	7	0	1	0
	FORT WORTH GALVESTON	92 90	72 80	97 91	67 75	82 85	-3 0	0.01 0.00	-0.47 -0.71	0.01 0.00	4.91 8.02	98 113	24.69 25.14	119 110	72 79	37 53	5 5	0	1 0	0
	HOUSTON	93	72	95	66	83	-1	0.00	-0.61	0.00	9.21	112	26.34	98	85	50	7	0	0	0
	LUBBOCK	91	66	98	60	79	-1	0.00	-0.41	0.00	2.22	46	9.12	87	62	37	4	0	0	0
	MIDLAND SAN ANGELO	94	66	102	63	80	-2	1.19	0.78	1.19	3.03	92	11.08	151	73 74	35	6	0	1	1 0
	SAN ANTONIO	96 94	64 71	101 97	57 64	80 83	-3 -2	0.05 0.00	-0.15 -0.39	0.05	4.53 5.66	131 93	14.16 14.99	127 80	74 76	34 34	7	0	0	0
	VICTORIA	96	70	99	62	83	-2	0.05	-0.49	0.04	4.59	60	14.63	65	90	44	7	0	2	0
1	WACO WICHITA FALLS	94 92	69 65	101 99	60 60	81 79	-5 -6	0.00	-0.47 -0.28	0.00	8.41 4.68	168 92	27.72 19.70	144 119	82 85	37 40	6 6	0	0	0
UT	SALT LAKE CITY	96	73	103	69	84	6	0.00	0.11	0.00	0.90	68	15.11	150	51	24	5	0	2	0
VT	BURLINGTON	84	63	90	58	73	2	0.08	-0.80	0.07	6.54	96	23.15	120	85	47	1	0	2	0
VA	LYNCHBURG NORFOLK	86 88	63 73	98 100	58 68	75 80	0 1	1.63 2.42	0.66 1.21	1.13 2.39	7.38 8.30	97 102	24.68 27.04	96 102	94 87	56 53	1 2	0	3	1
	RICHMOND	89	68	100	64	78	0	0.43	-0.67	0.41	10.90	146	31.28	124	89	53 54	2	0	2	0
	ROANOKE	85	64	95	58	74	-3	4.12	3.22	2.76	10.01	140	27.75	110	86	58	1	0	3	2
WA	WASH/DULLES OLYMPIA	89 81	65 53	100 90	59 48	77 67	1 4	0.76 0.03	-0.01 -0.09	0.69 0.03	5.15 1.40	72 55	25.03 16.42	104 60	84 90	44 53	3	0	2	1
VVA	QUILLAYUTE	81 72	53 51	90 77	48 46	61	4 2	0.03	-0.09 -0.32	0.03	1.40 3.95	55 71	16.42 35.60	60 64	90 95	53 64	0	0	1	0
1	SEATTLE-TACOMA	82	59	91	56	70	4	0.00	-0.13	0.00	2.05	94	16.02	82	75	50	1	0	0	0
1	SPOKANE	87	59	94	53	73	3	0.23	0.09	0.12	0.96	53	8.64	90	56	22	3	0	2	0
wv	YAKIMA BECKLEY	91 79	54 58	97 88	47 52	73 68	3 -3	0.08 2.05	0.05 0.98	0.08 1.66	0.14 8.57	18 106	6.03 31.81	134 124	66 86	30 56	5 0	0	1 3	0
1	CHARLESTON	84	62	94	56	73	-3 -1	1.27	0.30	1.11	6.29	76	28.88	110	98	54	1	0	3	1
1	ELKINS	82	58	92	53	70	0	1.59	0.52	0.80	11.42	130	32.09	116	93	58	1	0	3	2
WI	HUNTINGTON EAU CLAIRE	84 82	62 60	91 84	55 54	73 71	-3 -1	1.44 0.16	0.42 -0.70	1.41 0.16	9.20 7.83	120 102	30.26 26.20	119 146	94 93	53 44	1 0	0	2	1 0
1	GREEN BAY	83	61	88	57	72	2	0.10	-0.70	0.10	7.99	125	23.92	150	91	46	0	0	2	0
	LA CROSSE	87	65	92	62	76	2	0.00	-0.93	0.00	11.75	153	28.66	154	82	39	2	0	0	0
	MADISON MILWAUKEE	82 81	65 65	85 90	58 59	74 73	2	0.01 0.03	-0.84 -0.74	0.01 0.03	10.73 7.59	144 114	28.44 25.40	151 130	84 72	49 51	0	0	1 1	0
WY	CASPER	91	55	96	50	73	2	0.03	-0.74	0.03	3.50	138	13.72	160	81	37	5	0	2	0
I	CHEYENNE	84	58	90	55	71	3	0.13	-0.37	0.04	5.50	141	18.06	183	77	42	1	0	5	0
I	LANDER SHERIDAN	87 88	58 57	92 92	54 50	72 72	0 2	0.16 0.02	-0.01 -0.17	0.16 0.02	1.02 3.69	55 121	14.40 14.54	167 152	65 78	23 44	3	0	1 1	0
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Based on 1971-2000 normals

\*\*\* Not Available

# **National Agricultural Summary**

July 22 - 28, 2019

Weekly National Agricultural Summary provided by USDA/NASS

### HIGHLIGHTS

Rain during the week ending July 28 fell heaviest in parts of Colorado, Florida, Georgia, the mid Atlantic, Mississippi Valley, Minnesota, New England, and New Mexico, with some areas receiving 3 inches or more of precipitation. Temperatures were above normal across much

of the western United States and parts of the northern-tier states, with reported temperature more than 6°F above normal in California. In contrast, temperatures were 6°F or more below normal in parts of the central and southern Great Plains and the Mississippi Valley.

**Corn:** Fifty-eight percent of the nation's corn acreage was at or beyond the silking stage by July 28, thirty-two percentage points behind last year and 25 percentage points behind the 5-year average. Silking progress was most active in the Corn Belt, advancing at least 18 percentage points in Colorado, Illinois, Iowa, Minnesota, Nebraska, North Dakota, South Dakota, and Wisconsin. By July 28, thirteen percent of the corn acreage was at or beyond the dough stage, 22 percentage points behind last year and 10 percentage points behind the 5-year average. Overall, fifty-eight percent of the nation's corn acreage was rated in good to excellent condition, 1 percentage point above the previous week but 14 percentage points below the same time last year.

**Soybean:** By July 28, fifty-seven percent of the nation's soybean acreage had reached the blooming stage, 28 percentage points behind last year and 22 percentage points behind the 5-year average. Nationally, 21 percent of the nation's soybean acreage was setting pods, 37 percentage points behind last year and 24 percentage points behind the 5-year average. Advances of 19 percentage points or more occurred in Arkansas, Minnesota, Nebraska, and North Dakota. On July 28, fifty-four percent of the nation's soybean acreage was rated in good to excellent condition, identical to the previous week but 16 percentage points below the same time last year.

**Winter Wheat:** Seventy-five percent of the 2019 winter wheat acreage was harvested by July 28, nine percentage points behind last year and 11 percentage points behind the 5-year average. Winter wheat harvest progress continued with advances of 15 percentage points or better reported in Colorado, Michigan, Nebraska, Oregon, and South Dakota.

**Cotton:** Eighty-six percent of the nation's cotton acreage had reached the squaring stage by July 28, one percentage point behind both last year and the 5-year average. Advances were made in Mississippi and Missouri of 11 and 17 percentage points, respectively. By July 28, forty-five percent of the nation's cotton acreage had begun setting bolls, 3 percentage points behind both last year and the 5-year average. On July 28, sixty-one percent of the 2019 cotton acreage was rated in good to excellent condition, 1 percentage point above the previous week and 18 percentage points above the same time last year.

**Sorghum:** By July 28, thirty-three percent of the nation's sorghum acreage had reached the heading stage, 19 percentage points behind last year and 17 percentage points behind the 5-year average. Seventy-nine percent of Texas' sorghum acreage had reached the heading stage by July 28, identical to last year but 4 percentage points behind the 5-year average. Twenty-one percent of nation's sorghum acreage was at or beyond the coloring stage by July 28,

four percentage points behind both last year and the 5-year average. Coloring advanced 17 percentage points in Texas during the week. On July 28, seventy-one percent of the nation's sorghum acreage was rated in good to excellent condition, 2 percentage points below the previous week but 19 percentage points above the same time last year.

**Rice:** By July 28, forty-two percent of the nation's rice acreage had reached the heading stage, 19 percentage points behind last year and 15 percentage points behind the 5-year average. Advances of 10 percentage points or more occurred in Arkansas, California, and Mississippi. On July 28, sixty-eight percent of the nation's rice acreage was rated in good to excellent condition, 3 percentage points above the previous week but 1 percentage point below the same time last year.

**Small Grains:** By July 28, ninety-seven percent of the nation's oat acreage had headed, 3 percentage points behind both last year and the 5-year average. Twenty-one percent of the nation's oat acreage had been harvested by July 28, fifteen percentage points behind last year and 14 percentage points behind the 5-year average. Oats harvest progress continued with advances of 27 percentage points or better reported in Iowa, Nebraska, and Ohio. Harvest was complete in Texas. On July 28, sixty-six percent of the nation's oat acreage was rated in good to excellent condition, 2 percentage points above the previous week but 5 percentage points below the same time last year.

Ninety-six percent of the nation's barley acreage had reached the heading stage by July 28, one percentage point behind last year and 2 percentage points behind the 5-year average. On July 28, seventy-seven percent of the nation's barley acreage was rated in good to excellent condition, 1 percentage point above the previous week but 3 percentage points below the same time last year.

By July 28, ninety-seven percent of the nation's spring wheat acres had reached the heading stage, 2 percentage points behind last year and 1 percentage point behind the 5-year average. On July 28, seventy-three percent of the nation's spring wheat acreage was rated in good to excellent condition, 3 percentage points below the previous week and 5 percentage points below the same time last year.

**Other Crops:** By July 28, eighty-four percent of the nation's peanut acreage had reached the pegging stage, 1 percentage point behind both the previous week and the 5-year average. On July 28, seventy percent of the nation's peanut acreage was rated in good to excellent condition, 1 percentage point below the previous week and 5 percentage points below the same time last year.

# Week Ending July 28, 2019

	Prev	Prev	Jul 28	5-Yr
	Year	Week	2019	Avg
СО	70	21	53	54
IL	100	36	59	94
IN	92	23	40	84
IA	95	41	69	89
KS	91	54	71	86
KY	90	69	79	88
MI	65	5	20	65
MN	90	21	54	81
МО	99	62	77	95
NE	90	40	70	88
NC	97	89	93	96
ND	83	10	38	59
ОН	87	18	32	75
PA	65	55	70	69
SD	90	9	27	77
TN	96	88	94	96
TX	88	81	89	91
WI	73	10	28	63
18 Sts	90	35	58	83

Soybe	ans Per	cent B	loomin	g				
	Prev	Prev	Jul 28	5-Yr				
	Year	Week	2019	Avg				
AR	96	75	82	89				
L	91	30	52	83				
IN	84	21	37	79				
IA	89	47	65	84				
KS	82	28	40	66				
KY	62	34	51	57				
LA	99	90	95	96				
MI	72	23	42	76				
MN	86	47	69	85				
MS	94	82	88	88				
МО	77	25	38	62				
NE	86	46	66	83				
NC	56	36	45	56				
ND	94	49	71	85				
ОН	85	27	41	76				
SD	80	45	53	80				
TN	82	56	68	74				
WI	77	29	48	75				
18 Sts	85	40	57	79				
These 18 States planted 95%								
These 18 States planted 95% of last year's soybean acreage.								

Corn Percent Dough										
	Prev	Prev	Jul 28	5-Yr						
	Year	Week	2019	Avg						
со	8	0	1	2						
IL	60	1	16	36						
IN	30	0	8	19						
IA	28	1	7	20						
KS	47	13	24	31						
KY	43	19	34	37						
МІ	8	0	0	4						
MN	20	0	3	12						
МО	70	5	21	48						
NE	36	2	12	22						
NC	75	53	71	78						
ND	9	0	0	3						
ОН	23	0	3	12						
PA	8	0	2	10						
SD	31	0	2	13						
TN	76	45	66	65						
TX	70	58	65	68						
WI	7	0	0	4						
18 Sts 35 5 13 23										
These 18 States planted 92%										
of last year's	of last year's corn acreage.									

Soybeans Percent Setting Pods									
	Prev	Prev	Jul 28	5-Yr					
	Year	Week	2019	Avg					
AR	85	43	62	71					
IL	75	2	14	50					
IN	64	1	8	49					
IA	60	4	13	50					
KS	45	6	12	28					
KY	39	11	25	33					
LA	94	72	81	87					
МІ	35	0	15	35					
MN	56	2	27	46					
MS	83	48	63	71					
MO	41	2	9	28					
NE	49	8	34	43					
NC	28	18	26	30					
ND	65	1	26	50					
ОН	56	1	9	36					
SD	47	0	12	42					
TN	53	27	41	45					
WI	42	1	10	39					
18 Sts	58	7	21	45					
These 18 State	These 18 States planted 95%								
of last year's soybean acreage.									

Corn Condition by								
		Perc						
	VP	Р	F	G	EX			
СО	0	1	19	70	10			
IL	4	14	38	35	9			
IN	7	18	39	31	5			
IA	2	6	27	53	12			
KS	3	9	31	46	11			
KY	3	7	21	47	22			
MI	4	18	35	35	8			
MN	3	8	33	47	9			
МО	7	17	42	30	4			
NE	1	4	20	60	15			
NC	12	25	29	30	4			
ND	1	5	19	64	11			
ОН	7	17	42	31	3			
PA	0	5	15	63	17			
SD	2	6	31	48	13			
TN	1	2	13	59	25			
TX	1	3	27	52	17			
WI	3	10	24	43	20			
18 Sts	3	9	30	47	11			
Prev Wk	3	10	30	47	10			
Prev Yr	3	6	19	50	22			

Soybean Condition by										
		Perc	ent							
	VP	Р	F	G	EX					
AR	3	10	31	39	17					
IL	6	14	36	36	8					
IN	7	18	39	31	5					
IA	3	6	29	52	10					
KS	3	8	39	44	6					
KY	2	5	23	54	16					
LA	1	6	34	51	8					
MI	3	16	40	34	7					
MN	2	7	31	52	8					
MS	1	8	30	48	13					
МО	4	13	42	38	3					
NE	1	3	22	63	11					
NC	4	10	33	44	9					
ND	1	8	26	58	7					
ОН	9	21	40	27	3					
SD	2	7	41	40	10					
TN	1	3	18	60	18					
WI	2	7	26	46	19					
18 Sts	3	10	33	45	9					
Prev Wk	3	9	34	46	8					
Prev Yr	2	6	22	53	17					

# Crop Progress and Condition Week Ending July 28, 2019

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

Cotton Percent Squaring									
	Prev	Prev	Jul 28	5-Yr					
	Year	Week	2019	Avg					
AL	88	88	92	89					
AZ	96	97	99	96					
AR	100	95	97	100					
CA	79	80	85	89					
GA	92	90	95	94					
KS	91	60	67	64					
LA	100	93	98	99					
MS	97	74	85	94					
МО	100	64	81	93					
NC	93	90	93	94					
ок	83	77	78	80					
sc	79	89	91	90					
TN	98	79	88	94					
TX	82	74	83	83					
VA	89	88	92	92					
15 Sts	87	78	86	87					
These 15 States planted 99%									
of last year's cotton acreage.									

10 010	01	10	00	01					
These 15 States planted 99%									
of last year's	cotton a	creage.							
Sorghum Percent Headed									
	Prev	Prev	Jul 28	5-Yr					
	Year	Week	2019	Avg					
СО	37	0	18	23					
KS	36	7	10	26					
NE	51	17	26	38					
ок	43	20	22	42					
SD	40	9	23	45					
TX	79	73	79	83					
6 Sts	52	27	33	50					
These 6 States planted 97%									

of last year's sorghum acreage.

Peanut	s Per	cent Po	egging					
	Prev	Prev	Jul 28	5-Yr				
	Year	Week	2019	Avg				
AL	89	87	94	80				
FL	84	84	92	90				
GA	93	92	96	92				
NC	87	72	86	88				
ок	59	45	50	63				
sc	76	87	89	90				
TX	64	26	32	57				
VA	71	74	82	71				
8 Sts	85	78	84	85				
These 8 States planted 96%								
of last year's peanut acreage.								

Cotton Percent Setting Bolls							
	Prev	Prev	Jul 28	5-Yr			
	Year	Week	2019	Avg			
AL	70	50	69	68			
AZ	72	59	74	70			
AR	99	79	87	95			
CA	48	35	45	69			
GA	63	60	72	67			
KS	19	10	15	14			
LA	95	59	72	86			
MS	82	33	55	74			
MO	96	6	26	50			
NC	59	53	70	65			
ок	34	18	25	33			
sc	44	53	59	62			
TN	67	24	47	59			
TX	34	24	34	34			
VA	43	32	44	48			
15 Sts	48	33	45	48			
These 15 States planted 99%							
of last year's	of last year's cotton acreage.						

Sorghum Percent Coloring						
	Prev	Prev	Jul 28	5-Yr		
	Year	Week	2019	Avg		
СО	2	0	0	1		
KS	3	1	1	1		
NE	4	0	1	3		
ок	18	1	3	15		
SD	0	0	0	3		
TX	70	53	70	64		
6 Sts	25	16	21	25		
These 6 States planted 97%						
of last year's sorghum acreage.						

	Peanut Condition by Percent						
	VP	P	F	G	EX		
AL	0	7	47	38	8		
FL	1	5	30	61	3		
GA	1	4	26	58	11		
NC	3	7	29	52	9		
ок	0	0	17	72	11		
sc	0	0	24	68	8		
TX	0	0	4	87	9		
VA	0	0	2	79	19		
8 Sts	1	4	25	61	9		
Prev Wk	1	3	25	62	9		
Prev Yr	0	2	23	61	14		

Cotton Condition by							
	Percent						
	VP	Р	F	G	EX		
AL	1	6	33	51	9		
AZ	0	10	34	49	7		
AR	0	2	14	47	37		
CA	0	0	90	10	0		
GA	3	7	29	51	10		
KS	8	19	40	30	3		
LA	0	1	27	63	9		
MS	0	7	37	41	15		
МО	7	9	53	31	0		
NC	5	18	27	45	5		
OK	0	0	27	69	4		
sc	0	3	28	63	6		
TN	4	7	21	55	13		
TX	1	13	27	41	18		
VA	0	1	6	83	10		
15 Sts	1	10	28	46	15		
Prev Wk	2	8	30	50	10		
Prev Yr	11	19	27	34	9		

Sorghum Condition by					
	Perc	ent			
VP	Р	F	G	EX	
1	1	24	69	5	
1	5	25	62	7	
0	2	14	73	11	
0	1	16	77	6	
0	1	31	57	11	
0	1	26	50	23	
1	3	25	59	12	
1	2	24	60	13	
4	11	33	44	8	
	1 1 0 0 0 0	VP P  1 1 5 0 2 0 1 0 1 0 1 1 3 1 2	1 1 24 1 5 25 0 2 14 0 1 16 0 1 31 0 1 26 1 3 25 1 2 24	VP         P         F         G           1         1         24         69           1         5         25         62           0         2         14         73           0         1         16         77           0         1         31         57           0         1         26         50           1         3         25         59           1         2         24         60	

### Week Ending July 28, 2019

Winter Wheat Percent Harvested							
	Prev	Prev	Jul 28	5-Yr			
	Year	Week	2019	Avg			
AR	100	100	100	100			
CA	95	95	97	95			
СО	96	65	80	92			
ID	22	2	6	22			
IL	100	94	98	99			
IN	100	92	96	98			
KS	100	96	98	99			
MI	85	14	45	78			
МО	100	100	100	99			
MT	17	0	1	35			
NE	88	33	55	89			
NC	100	100	100	100			
ОН	99	83	93	96			
ок	100	100	100	100			
OR	52	17	33	53			
SD	74	0	24	64			
TX	100	100	100	100			
WA	26	10	19	39			
18 Sts	84	69	75	86			
These 18 States harvested 91%							
of last year's v	of last year's winter wheat acreage.						

Oats Percent Headed							
	Prev	Prev	Jul 28	5-Yr			
	Year	Week	2019	Avg			
IA	100	98	99	100			
MN	100	99	100	99			
NE	100	97	100	100			
ND	99	87	96	96			
ОН	100	91	95	100			
PA	93	92	97	97			
SD	100	90	95	100			
TX	100	100	100	100			
WI	99	88	93	99			
9 Sts	100	94	97	100			
These 9 Sta	ites planted	d 66%					
of last year's oat acreage.							

Rice Percent Headed						
	Prev	Prev	Jul 28	5-Yr		
	Year	Week	2019	Avg		
AR	67	18	33	56		
CA	15	15	25	22		
LA	93	78	82	89		
MS	58	48	60	68		
МО	49	7	14	45		
TX	93	78	86	88		
6 Sts	61	31	42	57		
These 6 States planted 100%						
of last year's rice acreage.						

Spring Wheat Percent Headed							
	Prev	Prev	Jul 28	5-Yr			
	Year	Week	2019	Avg			
ID	94	93	95	97			
MN	100	100	100	98			
MT	94	87	96	96			
ND	99	93	98	97			
SD	100	86	94	100			
WA	100	100	100	100			
6 Sts	99	92	97	98			
These 6 State	These 6 States planted 99%						
of last year's	of last year's spring wheat acreage.						

Oats Percent Harvested						
	Prev	Prev	Jul 28	5-Yr		
	Year	Week	2019	Avg		
IA	57	12	39	60		
MN	13	0	3	17		
NE	90	14	49	75		
ND	4	0	0	8		
ОН	76	8	46	57		
PA	28	1	14	23		
SD	50	0	8	47		
TX	100	99	100	100		
WI	17	1	6	18		
9 Sts	36	12	21	35		
These 9 States harvested 65%						
of last year's oat acreage.						

Rice Condition by					
		Perc	ent		
	VP	Р	F	G	EX
AR	2	9	30	40	19
CA	0	0	0	60	40
LA	0	4	27	61	8
MS	1	3	30	54	12
МО	3	5	39	34	19
TX	0	2	27	60	11
6 Sts	1	6	25	48	20
Prev Wk	1	6	28	46	19
Prev Yr	1	7	23	55	14

S	Spring Wheat Condition by						
		Per	cent				
	VP	Р	F	G	EX		
ID	7	4	20	60	9		
MN	0	1	16	70	13		
MT	1	13	22	54	10		
ND	0	3	19	67	11		
SD	1	2	32	54	11		
WA	2	4	28	57	9		
6 Sts	1	5	21	62	11		
Prev W	/k 0	4	20	63	13		
Prev Yı	r 1	3	18	64	14		

Oat Condition by							
Percent							
	VP P F G E						
IA	1	4	32	53	10		
MN	1	3	26	59	11		
NE	2	4	25	58	11		
ND	0	2	18	61	19		
ОН	1	10	44	42	3		
PA	0	5	18	59	18		
SD	1	2	24	63	10		
TX	5	12	32	43	8		
WI	1	5	23	49	22		
9 Sts	2	6	26	53	13		
Prev Wk	3	5	28	52	12		
Prev Yr	4	3	22	58	13		

### Week Ending July 28, 2019

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

Barley Percent Headed							
	Prev	Prev Prev		5-Yr			
	Year	Week	2019	Avg			
ID	96	87	95	97			
MN	99	99	100	98			
MT	94	88	95	97			
ND	99	93	97	97			
WA	100	98	100	100			
5 Sts 97 90 96 98							
These 5 States planted 78%							
of last year's barley acreage.							

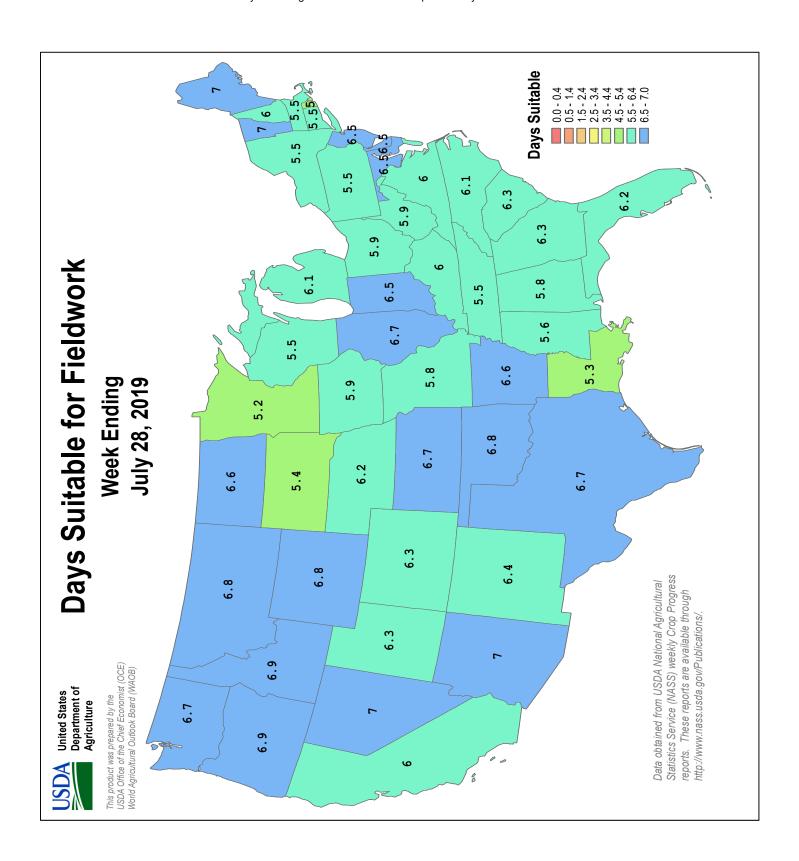
Barley Condition by Percent							
VP P F G EX							
ID	1	2	12	73	12		
MN	1	1	19	68	11		
MT	0	9	21	50	20		
ND	0	2	16	71	11		
WA	1	2	28	64	5		
5 Sts	0	5	18	62	15		
Prev Wk	0	5	19	58	18		
Prev Yr	1	2	17	66	14		

	Pasture and Range Condition by Percent										
	Week Ending Jul 28, 2019										
	VP	Р	F	G	EX		VP	Р	F	G	EX
AL	2	10	41	44	3	NH	0	18	35	43	4
ΑZ	6	29	35	29	1	NJ	0	0	20	78	2
AR	0	3	27	50	20	NM	10	29	38	21	2
CA	30	10	15	45	0	NY	2	6	26	50	16
СО	1	4	21	64	10	NC	1	7	31	56	5
СТ	0	8	58	29	5	ND	1	6	19	58	16
DE	4	17	32	42	5	ОН	1	18	41	37	3
FL	2	4	17	59	18	ОК	1	4	29	59	7
GA	3	12	38	43	4	OR	1	22	27	45	5
ID	0	5	21	57	17	PA	0	2	34	51	13
IL	6	12	44	27	11	RI	0	20	50	30	0
IN	3	12	39	37	9	sc	0	10	40	43	7
IA	2	10	32	49	7	SD	1	3	16	53	27
KS	1	4	26	57	12	TN	1	5	25	57	12
KY	1	7	25	59	8	TX	4	14	29	41	12
LA	0	5	39	51	5	UT	0	3	17	63	17
ME	0	0	29	57	14	VT	0	25	50	25	0
MD	2	5	29	56	8	VA	2	16	33	43	6
MA	0	5	15	70	10	WA	3	19	45	33	0
МІ	4	14	31	43	8	wv	1	7	25	61	6
MN	1	4	21	59	15	WI	1	7	27	46	19
MS	0	6	31	50	13	WY	0	7	25	61	7
МО	0	7	21	57	15	48 Sts	2	8	26	52	12
MT	1	4	22	56	17						
NE	1	2	16	68	13	Prev Wk	2	7	25	53	13
NV	5	10	35	50	0	Prev Yr	11	18	30	35	6

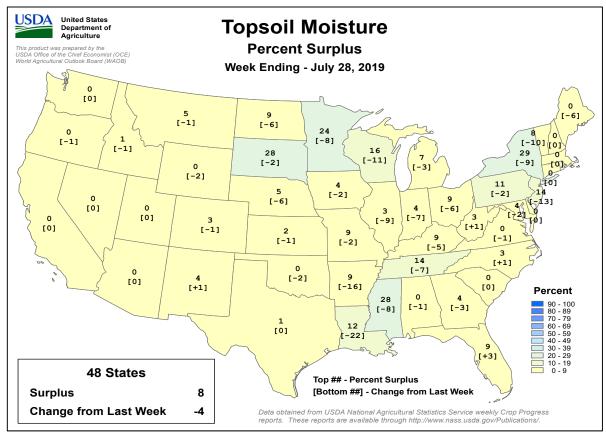
VP - Very Poor; P - Poor; F - Fair; G - Good; EX - Excellent

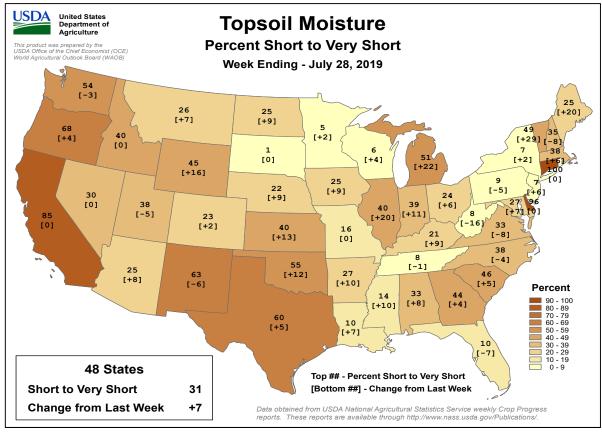
NA - Not Available; \*Revised

### Week Ending July 28, 2019

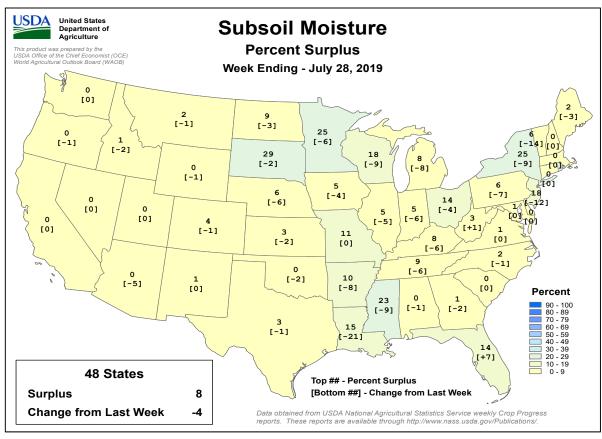


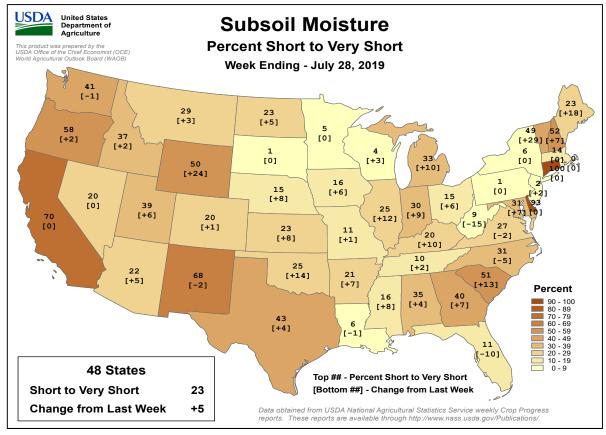
### Week Ending July 28, 2019





### Week Ending July 28, 2019





# **International Weather and Crop Summary**

# July 21-27, 2019 International Weather and Crop Highlights and Summaries provided by USDA/WAOB

### **HIGHLIGHTS**

**EUROPE:** The return of extreme heat renewed stress on reproductive summer crops across western and central Europe, while conditions remained good to excellent in the southeast.

**WESTERN FSU:** Widespread rain and near-normal temperatures were favorable for reproductive to filling summer crops.

**EASTERN FSU:** Heat abated in the west but continued in the south, while showers maintained excellent wheat prospects in eastern growing areas.

**MIDDLE EAST:** Sunny skies benefited reproductive to filling summer crops in Turkey after early July rain.

**SOUTH ASIA:** Monsoon showers returned to India following a brief lull.

**EASTERN ASIA:** Rainfall was lighter in portions of southern China, while heavier showers in the northeast maintained favorable soil moisture for reproductive crops.

**SOUTHEAST ASIA:** Widespread showers maintained or improved moisture supplies for rice and other summer crops, but more rain is needed to overcome seasonal moisture deficits in parts of Thailand and the Philippines.

**AUSTRALIA:** Crop conditions remained good in the west and south but deteriorated further in the northeast.

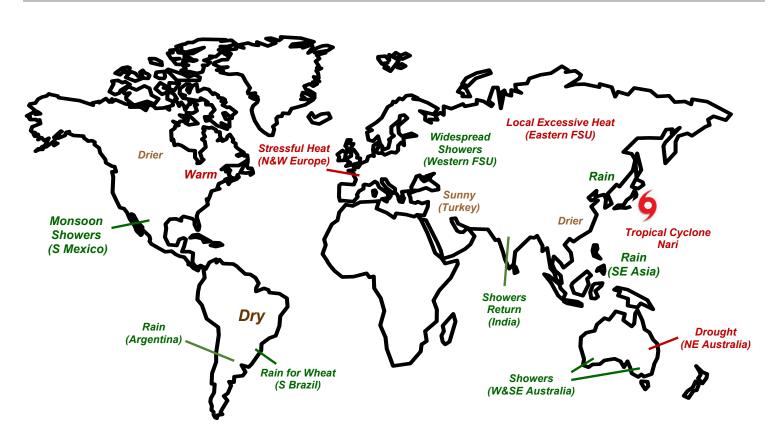
**ARGENTINA:** Heavy rain increased moisture for winter grains in northeastern Argentina.

**BRAZIL:** Dry weather favored harvesting of corn, cotton, and other summer crops in most major production areas.

**MEXICO:** Rain benefited summer crops in previously dry southern farming areas.

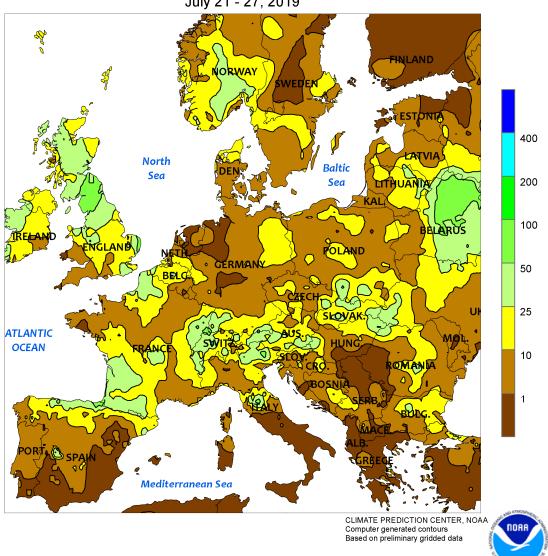
**CANADIAN PRAIRIES:** Dry, occasionally hot weather fostered rapid development of spring grains and oilseeds.

**SOUTHEASTERN CANADA:** Warm, sunny weather fostered rapid growth of corn and soybeans.



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



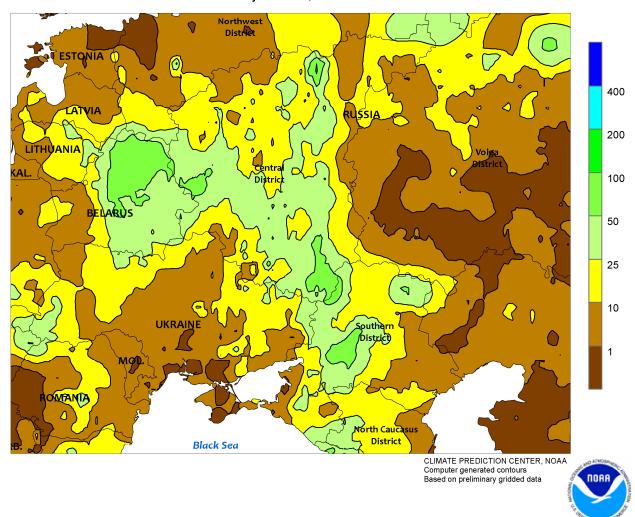


### **EUROPE**

Heat returned, renewing crop stress over central and western growing areas. Temperatures during the period averaged 4 to 8°C above normal, with somewhat cooler readings (1-3°C above normal) noted in southeastern Europe. Maximum temperatures topped 35°C across the western two thirds of the continent, with scorching heat (highs approaching or topping 40°C) noted from western France into northwestern Germany and the Low Countries. The resumption of hot weather after last week's respite was especially detrimental to corn in southern France, where temperatures as high as 42°C were coincident with the tasseling and silking stages of development. Soybeans and sunflowers were likewise in the reproductive stages of development and also adversely impacted, though oilseeds are typically more heat tolerant. Furthermore, protracted short-term dryness exacerbated the

impacts of the heat; through the first three weeks of July, 30-day rainfall had totaled a meager 10 percent of normal or less over much of France, and less than 50 percent of normal from Germany into Poland and Hungary. At the end of week, much-needed rain (10-50 mm) and cooler temperatures over central and western Europe brought an end to the latest heat wave and provided sorely needed soil moisture. Producers in the heat- and drought-afflicted areas will likely need time to ascertain the extent of crop impacts, but some yield losses are likely to the region's corn, sunflowers, and soybeans. In contrast, reproductive to filling summer crops in southeastern Europe were developing favorably due to good rains during the spring and summer (to date) as well as a lack of extreme heat, and yield prospects for corn, sunflowers and soybeans remained good to excellent.

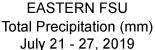
# WESTERN FSU Total Precipitation (mm) July 21 - 27, 2019

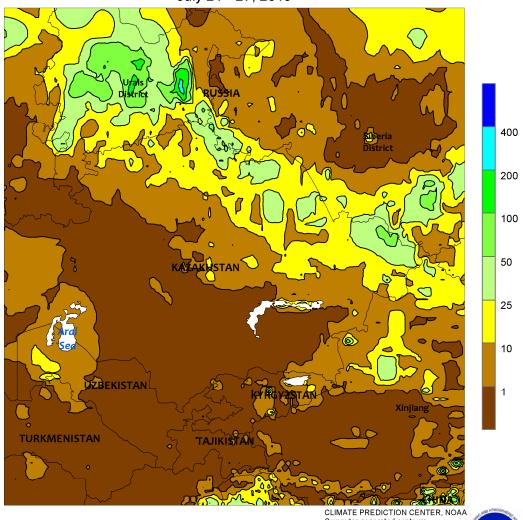


### **WESTERN FSU**

Favorable conditions for summer crops continued over much of the region. For the third consecutive week, a lack of extreme heat (29-34°C) coupled with widespread showers and thunderstorms (15-100 mm, locally more) were ideal for corn, soybeans, and sunflowers progressing through the temperature-sensitive reproductive and filling stages of development. While localized pockets of short-

term dryness (30-day rainfall locally less than half of normal) have been noted in northern and western Ukraine, the lack of heat stress lessened the potential impacts on corn, soybeans, and sunflowers. Consequently, yield prospects indicated by satellite-derived vegetation health data for reproductive (north) to filling (south) summer crops remained favorable.





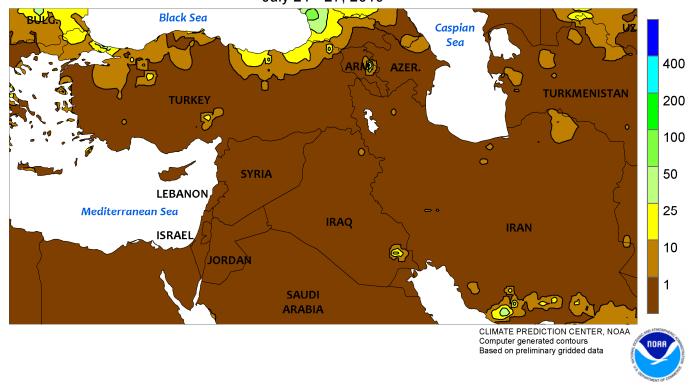
CLIMATE PREDICTION CENTER, N Computer generated contours Based on preliminary gridded data

### **EASTERN FSU**

Western heat and dryness abated, while the favorable growing season continued in the east. For much of the summer, drought and excessive heat have afflicted spring grains in the southeastern Volga District (west-central Russia) and the Kostanay Oblast (northwestern Kazakhstan). In particular, daytime highs in early to mid-July soared into the middle and upper 30s (degrees C) during the heading and flowering stages of development. While this week's cooler weather (1-2°C above normal) and scattered albeit variable showers (1-15 mm) were welcome, satellite-derived vegetation health data indicated dire crop prospects in the aforementioned locales. Meanwhile, moderate to heavy rain (10-80 mm) from the Urals District southeastward into northeastern Kazakhstan and Russia's Siberia District maintained favorable moisture

supplies for heading to flowering wheat and barley. Conditions remained good to excellent in these central and eastern growing areas, as indicated by satellite-derived vegetation health data. Farther south, sunny skies and abovenormal temperatures maintained very high irrigation demands for flowering cotton in Uzbekistan and environs. The hotter-than-normal weather maintained crop stress; daytime highs in Uzbekistan reached as high as 46°C, with 7-day average temperatures above 30°C (an indicator of stress to flowering cotton) — locally greater than 35°C — for a third consecutive week across Turkmenistan, Uzbekistan, and southwestern Kazakhstan. As of July 27, daytime highs topped 42°C on 18 of 21 consecutive days in central Uzbekistan as cotton progressed through the flowering stage.

# MIDDLE EAST Total Precipitation (mm) July 21 - 27, 2019

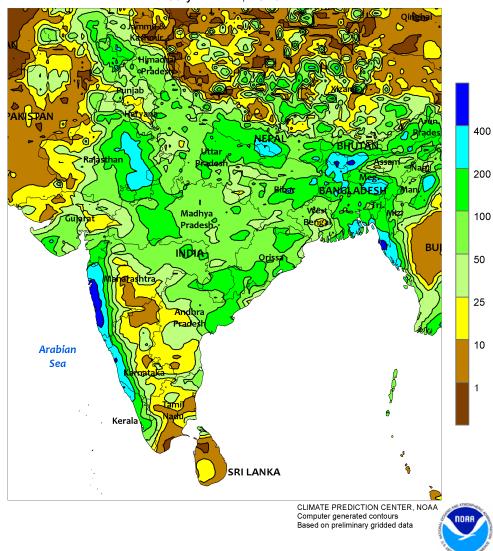


### MIDDLE EAST

Mostly dry weather in Turkey promoted summer crop development. After early July supplemental rainfall, sunny skies in Turkey were beneficial for summer crops progressing through the reproductive and filling stages of development.

Summer crop prospects remained good to excellent, as indicated by satellite-derived vegetation health data. Elsewhere, seasonably sunny skies favored the development of irrigated summer crops and fieldwork.

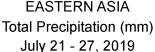
SOUTH ASIA Total Precipitation (mm) July 21 - 27, 2019

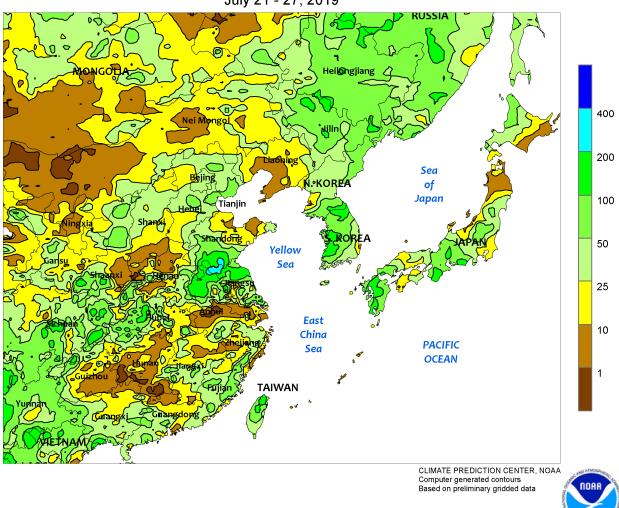


### **SOUTH ASIA**

Widespread monsoon showers returned to India after a brief lull. Rainfall totals between 50 and 200 mm bolstered soil moisture and irrigation supplies for kharif crop establishment as well as encouraged planting. The moisture was particularly welcome in Gujarat and other western cotton and groundnut areas that were experiencing below-average seasonal rainfall. However, temperatures remained

1 to 3°C above normal across a swath of central India, causing localized stress to vegetative crops. Elsewhere, heavier-than-normal showers (100-300 mm) in Bangladesh maintained abundant to locally excessive moisture supplies for rice (aman), while showers (10-50 mm) in northern Pakistan increased irrigation supplies for cotton and rice nearing reproduction.



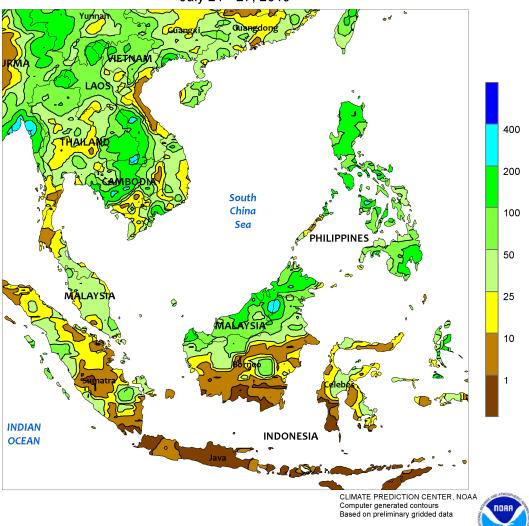


### **EASTERN ASIA**

Rainfall amounts varied widely (1-100 mm or more) across eastern and southern China. Moisture in the south remained adequate for late-crop rice and improved slightly for single-crop rice nearer to the Yangtze River. In addition, rainfall on large portions of the North China Plain also improved moisture conditions for summer crops, although dryness was still prevalent in western sections (Henan and environs). At the same time, stressful heat (weekly average temperatures over 30°C; 3-5°C above normal) was reported throughout the Yangtze Valley and on the North China Plain. In the northeast, widespread showers (25-100 mm or more) in Heilongjiang, Jilin, and neighboring prefectures of Inner Mongolia maintained good to

excellent soil moisture for reproductive corn and soybeans. However, lesser totals (below 25 mm) were reported in Liaoning where significant short-term moisture deficits continued. Meanwhile in western China, nighttime temperatures in northwestern cotton areas of Xinjiang have been consistently well above average (nearly 5°C) since late June, preventing recovery from the hot daytime temperatures and causing stress to the crop. In other parts of the region, late-week showers on the Korean Peninsula provided some relief from seasonal drought conditions, especially along western border areas. A tropical cyclone (Nari) made landfall in southeastern Japan with winds of 35 knots and locally heavy rainfall (over 50 mm).

### SOUTHEAST ASIA Total Precipitation (mm) July 21 - 27, 2019

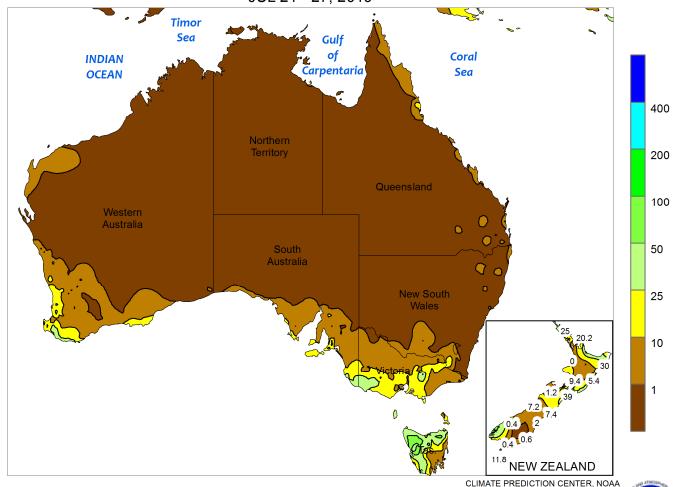


### **SOUTHEAST ASIA**

Showers were generally widespread in the region with most areas receiving over 50 mm for the week. Despite a small pocket of mostly dry weather in central Thailand, showers (25-100 mm) across the north and northeast significantly improved moisture supplies for rice. However, more rain is needed to fully eradicate lingering seasonal moisture deficits. Similarly

in the Philippines, recent rainfall has improved moisture supplies for rice and other summer crops but more is needed to overcome poor June rainfall. In the southern parts of the region, showers (25-100 mm) in Malaysia and eastern Indonesia benefited oil palm, while drier weather in western Indonesia lowered soil moisture for oil palm.

# AUSTRALIA Total Precipitation (mm) JUL 21 - 27, 2019



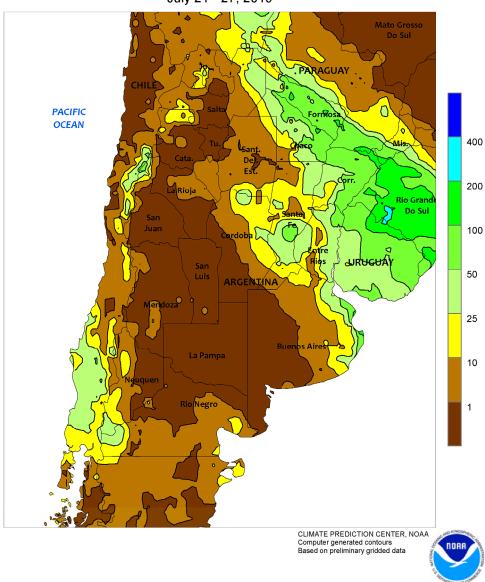
### **AUSTRALIA**

Dry weather persisted in drought-ravaged southern Queensland and northern New South Wales, leading to a further deterioration in winter wheat conditions. The dry weather stretched into southern New South Wales as well, reducing soil moisture for vegetative winter grains and oilseeds. Elsewhere in southeastern Australia, scattered showers (3-15 mm) aided wheat, barley, and canola development in Victoria and South Australia, maintaining

good yield prospects. In Western Australia, widely scattered showers (less than 5 mm in most locations) provided little additional water for vegetative winter crops, but soil moisture was generally adequate throughout the region, promoting winter grain and oilseed development. Temperatures averaged near normal in Western Australia. In southern and eastern Australia, temperatures averaged 1 to 3°C above normal, accelerating crop development.

Computer generated contours Based on preliminary data

ARGENTINA
Total Precipitation (mm)
July 21 - 27, 2019

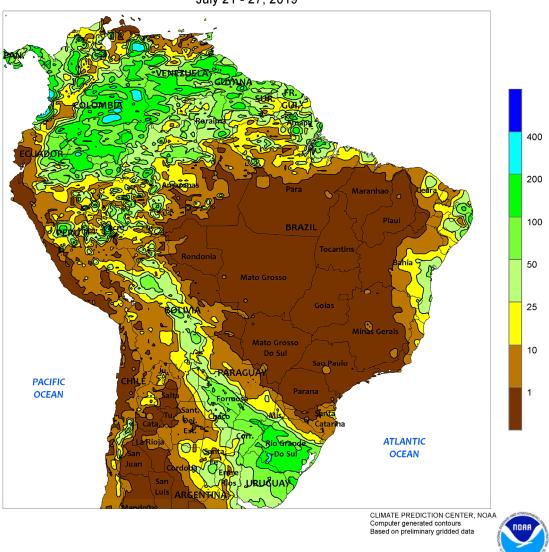


### **ARGENTINA**

Unseasonably wet weather provided abundant moisture for germination and establishment of winter grains in northeastern production areas. Rainfall totaled 25 to 100 mm from Santa Fe and Entre Rios north and eastward through Formosa and Corrientes, with lighter amounts (10 to 25 mm, with isolated higher amounts) in eastern Buenos Aires and from Cordoba northward. Other locations in the far northwest and southwest — including La Pampa and the remainder of Buenos Aires — remained dry, favoring autumn fieldwork. Temperatures were highly variable, with

highest daytime readings ranging from the middle 10s (degrees C) in southern Buenos Aires to the lower and middle 30s in and around Chaco and Formosa; freezes were confined to traditionally cooler southern and western farming areas. According to the government of Argentina, cotton was 94 percent harvested as of July 25, with the only fieldwork remaining in Cordoba, Santiago del Estero, and San Luis; corn was 82 percent harvested, lagging last year's pace by 8 points. Meanwhile, wheat was 94 percent planted, equaling last year's pace.

BRAZIL
Total Precipitation (mm)
July 21 - 27, 2019

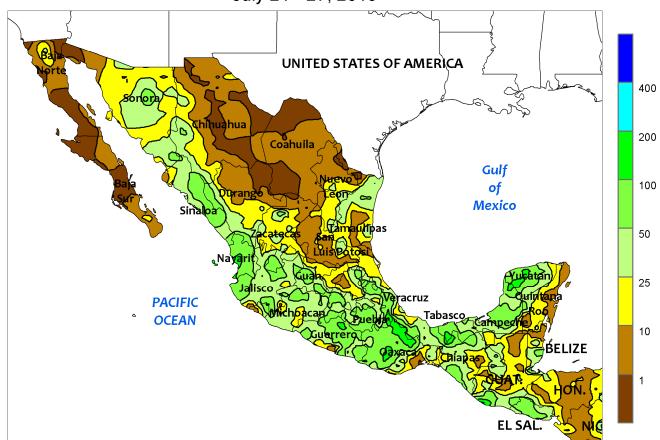


#### BRAZIL

Dry weather dominated most major agricultural areas, supporting drydown and harvesting of corn, cotton, and other summer crops. Complete dryness dominated a large area extending northeastward through Tocantins and southeastward through Sao Paulo and Minas Gerais, accompanied by summer warmth, with daytime highs reaching the middle 30s (degrees C) in traditionally warmer locations in Mato Grosso and Tocantins. According to the government of Parana, second-crop corn was 65 percent harvested as of July 22; meanwhile, nearly 60 percent

of the wheat crop had reached flowering. In Mato Grosso, corn was 94 percent harvested as of July 26, 11 points ahead of the 5-year average; cotton was 25 harvested, 3 points behind average. In contrast to the aforementioned dry farming areas, heavy rain (25-100 mm, locally approaching 200 mm) soaked Rio Grande do Sul, where typically later-planted wheat was entering reproduction. Meanwhile, seasonal showers (10-50 mm ore more) continued along the northeastern coast, boosting moisture for coffee, sugarcane, and cocoa.

# MEXICO Total Precipitation (mm) July 21 - 27, 2019



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

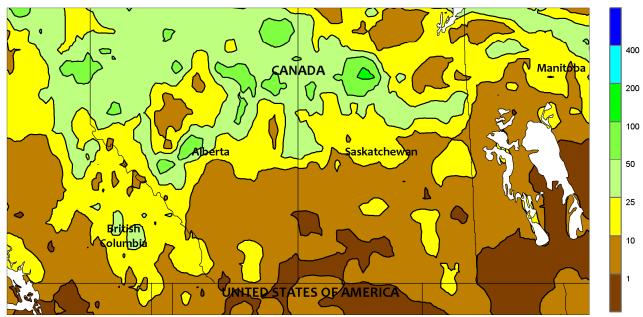


### **MEXICO**

Rain intensified throughout agricultural areas along the Gulf Coast, bringing some relief from previous dryness. Pockets of moderate to heavy rain (greater than 50 mm) were recorded in northeastern Tamaulipas, and from Veracruz and Tabasco northeastward through the Yucatan Peninsula. While providing a much-needed boost in moisture to sugarcane and other rain-fed crops, additional rain will be needed to more fully replenish reserves. Meanwhile, beneficial rain (10-50 mm or more) continued across the

southern plateau corn belt (Jalisco to Puebla) and along the southern Pacific Coast (Michoacan to Chiapas), increasing moisture for corn, coffee, and other crops of regional importance. Farther north, monsoon showers (10-50 mm, locally higher) were scattered throughout northwestern watersheds but mostly dry, occasionally hot weather (daytime highs reaching the 40s degrees C) dominated rangeland and cotton areas of north-central Mexico (central Chihuahua to northern Nuevo Leon).

### CANADIAN PRAIRIES Total Precipitation (mm) July 21 - 27, 2019

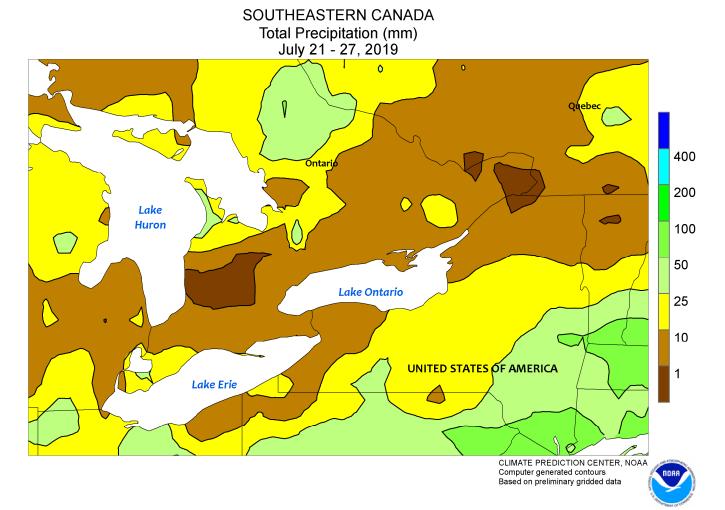


CLIMATE PREDICTION CENTER, NOAA Computer generated contours Based on preliminary gridded data

### **CANADIAN PRAIRIES**

Warmth and dryness fostered rapid spring crop development across most Prairie farming areas. Rainfall totaled less than 5 mm from southern Alberta eastward through Manitoba, where daytime highs reached the upper 20s and lower 30s (degrees C). Highs reached 35°C on several days in previously dry southwestern locations, stressing spring grains and oilseeds in or approaching reproductive stages of development. According to

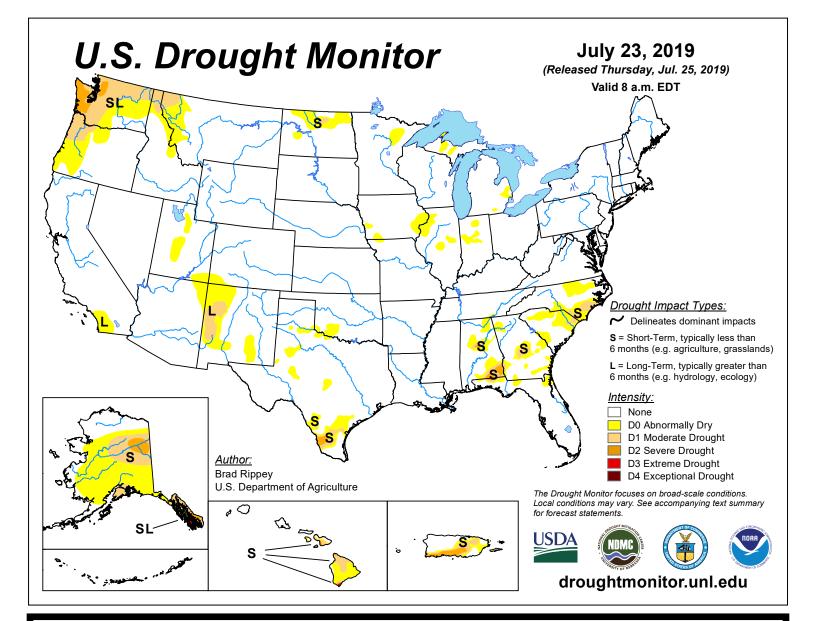
the government of Saskatchewan in a report issued on July 22, hay production was expected to be lower in the drier western and southwestern districts due to this season's lack of moisture. Meanwhile, heavier rain (greater than 25 mm) was recorded in Alberta's northern-most agricultural areas, including the Peace River Valley. Temperatures in the wetter northern locations ranged from the upper 20s to lower 30s.



### **SOUTHEASTERN CANADA**

Warm, mostly dry weather dominated the region, spurring growth of summer crops, winter wheat, and pastures. Little to no rain fell in the main farming areas of Ontario and Quebec, with just a few locations recording amounts in excess of 10 mm. In combination with the increased sunshine, near- to above-normal temperatures

accompanying the dryness aided the pace of development. Daytime highs reached the upper 20s and lower 30s degrees C on several days both at the beginning and end of the week. According to the government of Ontario, winter wheat harvesting was lagging last year's pace by one to two weeks as of July 25.



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U.S. DEPARTMENT OF AGRICULTURE World Agricultural Outlook Board

Managing Editor	Brad Rippey (202) 720-2397
Production Editor	<b>Brian Morris</b> (202) 720-3062
International Editor	Mark Brusberg (202) 720-2012
Agricultural Weather Analysts	Harlan Shannon
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