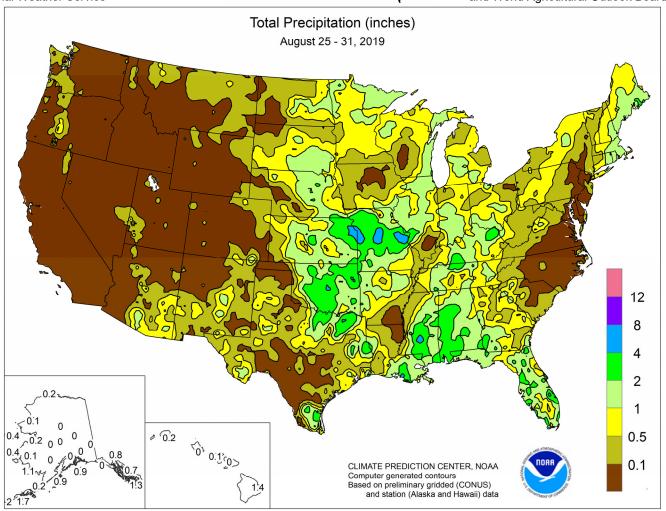
WEEKEY MATHER AND CROP BULLETIN

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



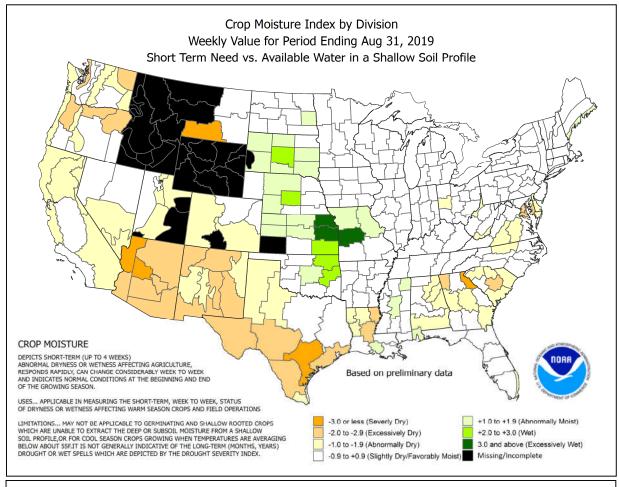
HIGHLIGHTSAugust 25 – 31, 2019

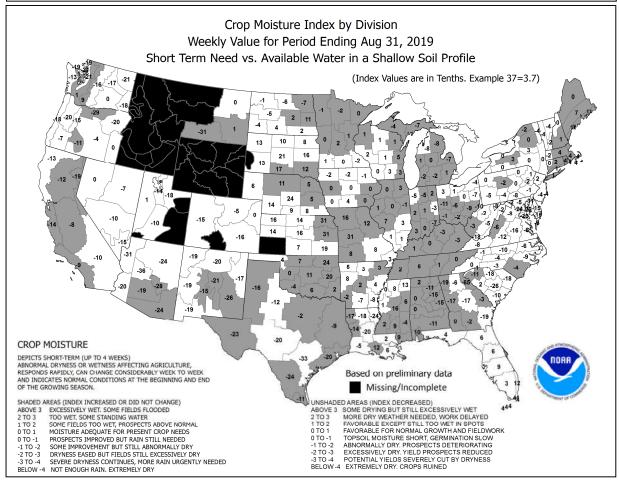
Highlights provided by USDA/WAOB

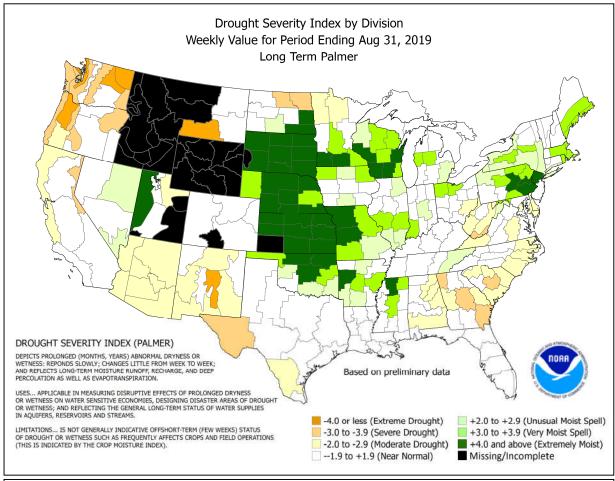
orian surprised U.S. territories in the Caribbean, suddenly becoming a Category 1 hurricane on August 28 while traversing the U.S. Virgin Islands of St. Thomas and St. John but unexpectedly sparing most of Puerto Rico. Later, Dorian moved perilously close to Florida's east coast during the Labor Day weekend while stalling and battering the northern Bahamas as a Category 5 storm. On the U.S. mainland, mostly dry weather in the West and the Mid-Atlantic States contrasted with locally heavy showers from the eastern Plains into the

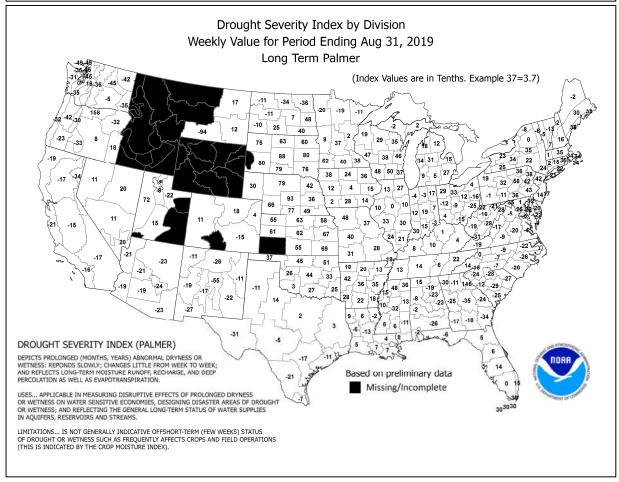
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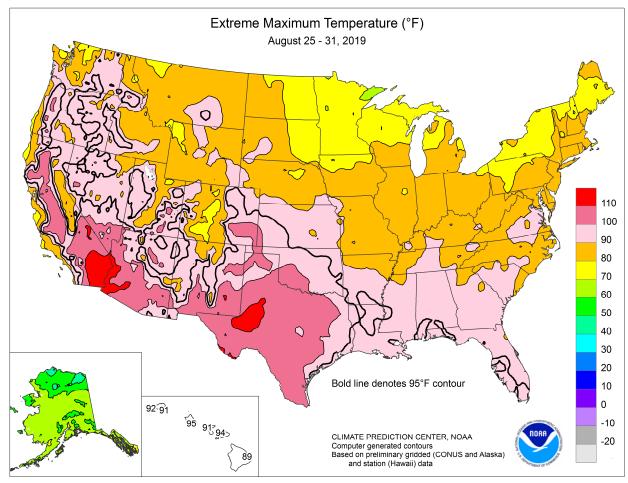
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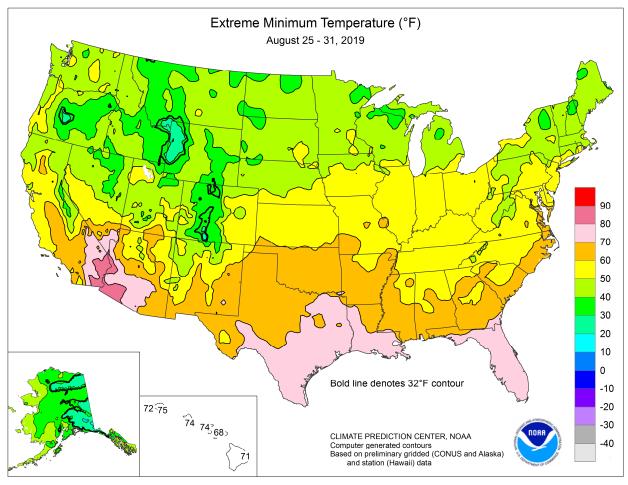












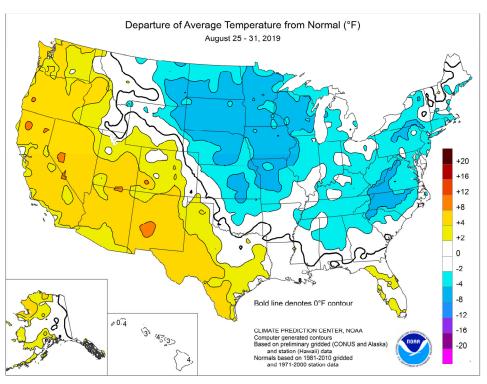
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Southeast. Some of the heaviest rain, locally 4 inches or more, fell in Missouri and portions of neighboring states. On the southern High Plains, however, heat continued to aggravate the effects of short-term dryness, leading to additional stress on rangeland, pastures, and immature crops. summer Southwestern rangeland and pastures also suffered from heat and dryness, the byproduct of a sub-par monsoon season. In fact, weather—with temperatures averaging 5 to 10°F above normal prevailed from the Pacific Coast to the southern High Plains. humid weather dominated Florida's peninsula during Hurricane Dorian's approach, but generally cooler-thannormal conditions covered remainder of the eastern U.S. In addition, near- or below-normal temperatures blanketed the Midwest for the sixth week in a row,

maintaining a slow pace of development for late-planted corn and soybeans. The coolest weather, relative to normal, affected the **upper Midwest**, where temperatures averaged at least 5°F in many locations.

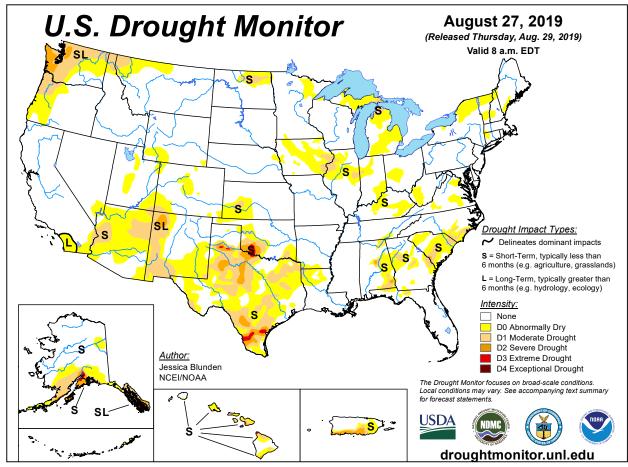
A handful of daily-record lows were set across northern sections of the Plains and Rockies in late August. In western Montana, for example, a daily-record low of 37°F was reported at the Dillon Airport on August 26. Later, Rapid City, SD, achieved a daily-record low (41°F) for August 28. Farther south, however, the week began in the midst of a scorching heat wave. Monthly records were set on consecutive days (August 25-26) in locations such as Roswell, NM (109 and 111°F, respectively), and Midland, TX (108 and 113°F). Previous August records had been 107°F in both Roswell and Midland. In fact, the only higher temperatures ever observed in Midland occurred in 1994, with highs of 116 and 114°F, respectively, on June 27-28. Elsewhere in Texas, monthly records were set or tied on August 26 with highs of 109°F in Del Rio and Lubbock. From August 2-31, McAllen, TX, noted highs above 100°F on 30 consecutive days. McAllen also reported daily-record highs of 105°F on August 25 and 28. By August 27, heat spread into the Northwest, where dailyrecord highs in Oregon soared to 103°F in Roseburg and 101°F in Eugene. By week's end, heat re-intensified across the Intermountain West. From August 31 - September 2, Grand Junction, CO, noted three consecutive daily-record highs (98, 100, and 98°F.

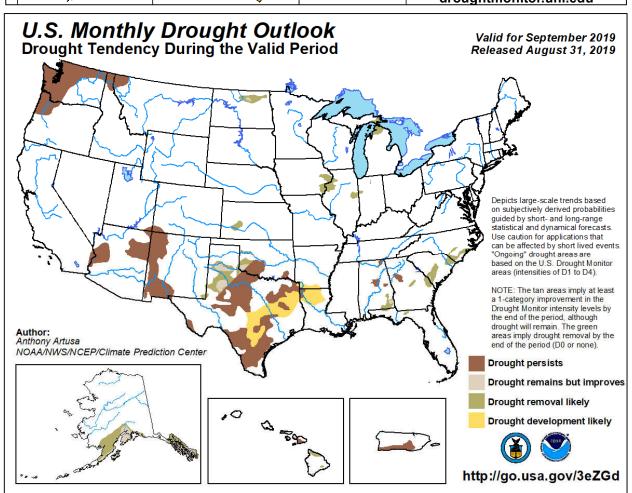
With more heavy rain falling across the **nation's mid-section**, the wettest August on record came to a close in locations such as **Grand Island**, **NE** (11.94 inches, or 383 percent of normal); **Fort Smith**, **AR** (11.70 inches, or 452 percent); and **Goodland**, **KS** (9.47 inches, or 351 percent). In **Grand Island**, the only wetter month was June 1967, when 13.96 inches fell. Across this region, heavy showers occurred mostly

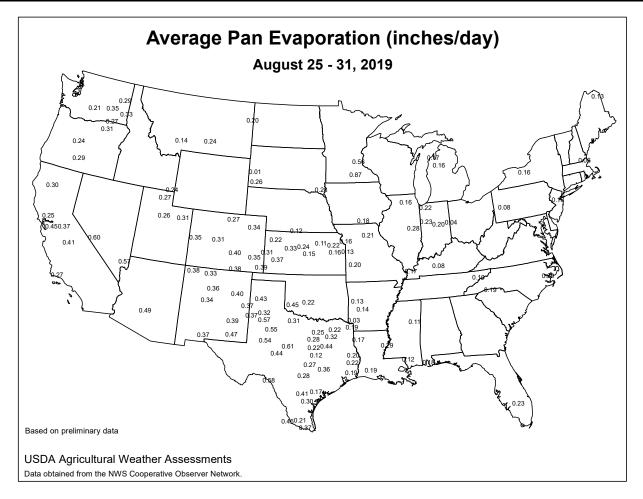


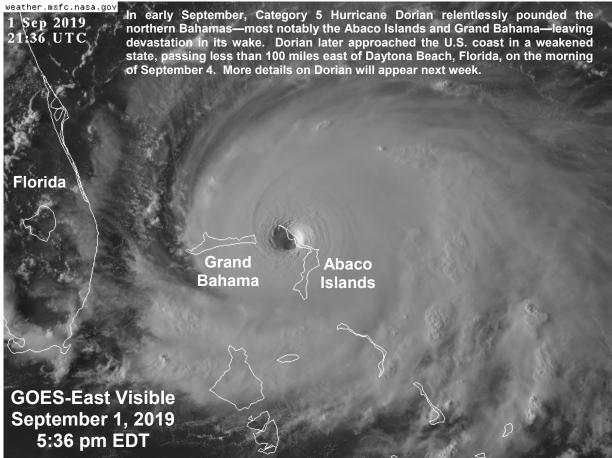
during the second half of the week. For example, daily-record totals included 1.87 inches (on August 29) in Hill City, KS, and 1.64 inches (on August 30) in Columbia, MO. From August 25-31, Columbia's rainfall totaled exactly 4 inches. Several other areas received locally heavy showers, with daily-record totals topping the 2-inch mark in Montgomery, AL (2.51 inches on August 25); Bismarck, ND (2.33 inches on August 25); and Bowling Green, KY (2.14 inches on August 27). In contrast, Flagstaff, AZ, remained on track to experience its driest monsoon season on record. From June 15 – August 31, Flagstaff's rainfall totaled just 1.13 inches (19 percent of normal).

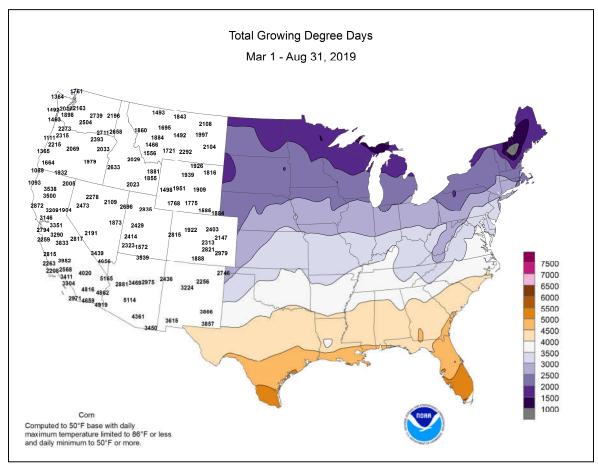
Mostly dry weather accompanied near- or above-normal temperatures in Alaska. In south-central Alaska, where drought continued, Anchorage completed its warmest, driest August on record, with an average temperature of 62.7°F (5.9°F above normal) and rainfall totaling just 0.04 inch (1 percent of normal). Drought also persisted in southeastern Alaska, where it was the driest August on record in locations such as Sitka (1.63 inches, or 24 percent of normal) and Yakutat (1.05 inches, or 7 percent). Farther south, record-setting heat continued in Hawaii. Lihue, Kauai, set or tied a daily record on each of the last 8 days of the month, with high temperatures peaking at 91°F on August 25 and 31. Lihue's previous August record high of 90°F had been most recently achieved on August 12, 2017. In addition, Lihue has never experienced a temperature greater than 91°F, and prior to this year had not reported a high of 91°F since October 9, 2012. Meanwhile, Honolulu, Oahu, set an August record and tied an all-time record with a high of 95°F on August 31. **Honolulu's** former August record of 93°F had been set most recently on August 12, 2015, while the only other observance of a high of 95°F had occurred on September 19, 1994. At the state's major airport observation sites, August rainfall ranged from 0.18 inch (32 percent of normal) in Honolulu to 9.40 inches (95 percent) in Hilo, on the Big Island.

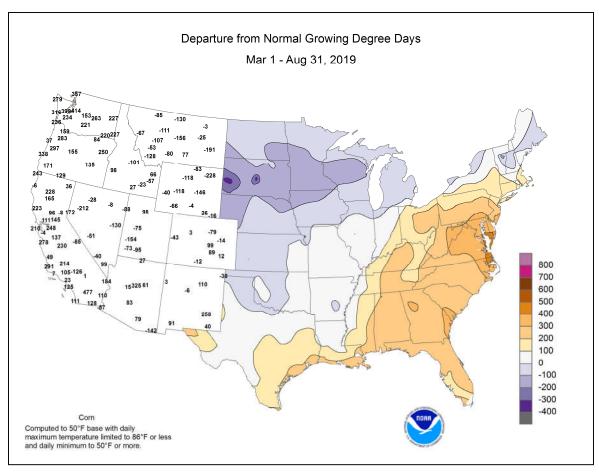


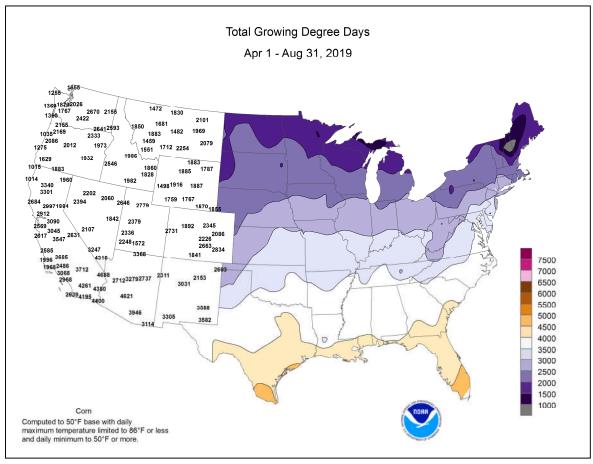


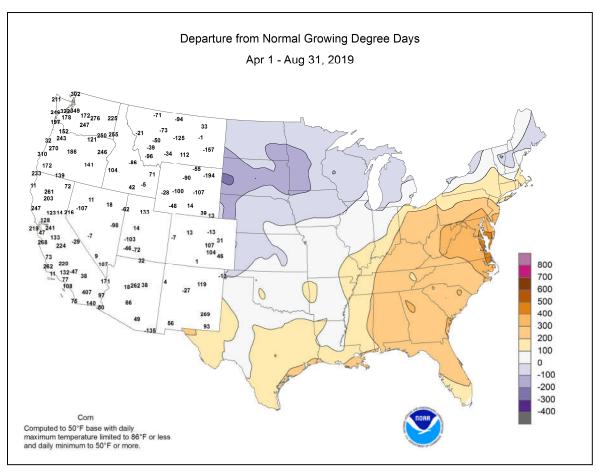












National Weather Data for Selected Cities

Weather Data for the Week Ending August 31, 2019 Data Provided by Climate Prediction Center

								ided by							REL	ATIVE	NUN	/IBER	OF D	AYS
	STATES	1	ΓEMF	PERA	TUR	E°	F			PREC	CIPITA	NOITA	l			IDITY CENT	TEM	IP. °F	PRE	CIP
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S	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	87	68	92	61	77 76	-2	2.95	2.20	1.57	12.33	100	36.52	97	91	52	3	0	3	2
	HUNTSVILLE MOBILE	86 90	66 73	91 94	58 69	76 81	-2 0	0.80 3.84	0.03 2.40	0.68 1.72	10.11 23.59	85 133	45.04 44.87	116 96	97 95	59 71	1 4	0	3 4	1 3
	MONTGOMERY	90	69	96	61	80	0	3.22	2.40	2.51	13.40	103	33.97	88	89	55	4	0	3	2
AK	ANCHORAGE	68	49	70	46	59	4	0.04	-0.67	0.03	0.90	16	5.93	66	83	70	0	0	2	0
	BARROW FAIRBANKS	43	38	45	37	40	3	0.15 0.00	-0.05	0.13 0.00	5.02	225	7.98	286	87	70	0	0	3 0	0
	JUNEAU	64 63	43 45	67 70	33 40	53 54	0	2.32	-0.35 1.00	0.00	8.02 10.51	165 82	11.50 28.21	167 89	84 95	72 82	0	0	3	0 2
	KODIAK	65	49	71	41	57	3	0.93	-0.29	0.93	6.94	50	35.37	79	84	74	0	0	1	1
	NOME	54	46	59	40	50	1	0.12	-0.62	0.09	10.07	154	17.21	169	96	84	0	0	3	0
AZ	FLAGSTAFF	86	51	89	49	69	6	0.11	-0.46	0.11	1.13	20	16.30	107	73	21	0	0	1	0
	PHOENIX PRESCOTT	107 95	85 65	111 98	79 61	96 80	6 10	0.14 0.00	-0.03 -0.64	0.14 0.00	0.41 1.44	20 22	3.43 10.24	67 77	50 63	28 18	7 7	0	1 0	0
	TUCSON	101	76	105	73	89	5	0.00	0.00	0.00	2.66	58	7.69	98	62	36	7	0	2	0
AR	FORT SMITH	89	70	95	68	80	0	1.28	0.65	0.57	23.18	231	49.75	177	98	65	3	0	3	2
۵.	LITTLE ROCK	88	69	91	63	79	-1	0.61	-0.11	0.41	12.61	124	47.26	145	97	57	2	0	3	0
CA	BAKERSFIELD	99	75	102	69	87	7	0.00	-0.01	0.00	0.23	115	6.50	139	52	34	7	0	0	0
	FRESNO LOS ANGELES	101 81	72 69	105 85	66 68	87 75	8 4	0.00	0.00 -0.03	0.00	0.00 0.05	0 20	9.52 12.86	121 134	51 84	35 63	7	0	0	0
	REDDING	100	68	108	62	84	7	0.00	-0.06	0.00	1.01	105	32.09	145	60	32	7	0	0	0
	SACRAMENTO	95	64	101	60	79	5	0.00	-0.03	0.00	0.00	0	19.36	161	76	27	5	0	0	0
	SAN DIEGO	80	69	84	68	75	2	0.00	-0.03	0.00	0.01	5	8.42	109	87	67	0	0	0	0
	SAN FRANCISCO STOCKTON	77	59	84	55	68	4	0.00	-0.02	0.00	0.00	0	18.42	137	86	66	0 7	0	0	0
СО	ALAMOSA	98 86	64 42	103 87	58 38	81 64	5 4	0.00	-0.02 -0.25	0.00	0.00 1.57	0 58	12.48 6.25	137 128	59 75	35 25	0	0	0	0
	CO SPRINGS	87	57	96	53	72	6	0.00	-0.23	0.00	4.05	47	9.74	68	75	22	2	0	0	0
	DENVER INTL	89	58	97	51	74	6	0.00	-0.29	0.00	5.24	92	12.59	117	79	20	4	0	0	0
	GRAND JUNCTION	95	60	99	56	77	5	0.00	-0.17	0.00	1.03	54	6.87	117	31	17	7	0	0	0
СТ	PUEBLO BRIDGEPORT	92	60	102	55	76	5	0.00	-0.42	0.00	6.32	112	10.75	108	71	37	4	0	0	0
Ci	HARTFORD	78 80	61 54	85 86	57 47	69 67	-3 -3	1.30 0.31	0.47 -0.62	1.30 0.31	13.80 8.67	124 75	35.69 33.47	119 110	79 86	50 48	0	0	1	1
DC	WASHINGTON	84	66	91	64	75	-3 -1	0.02	-0.75	0.02	12.75	125	30.77	117	79	47	1	0	1	0
DE	WILMINGTON	82	62	88	58	72	-2	0.00	-0.79	0.00	16.85	148	36.91	127	95	50	0	0	0	0
FL	DAYTONA BEACH	90	76	92	73	83	2	0.38	-1.16	0.17	24.49	144	35.83	110	95	63	3	0	3	0
	JACKSONVILLE KEY WEST	90 90	74 81	93 94	73 78	82 86	2	2.38 0.72	0.62 -0.65	1.44 0.48	19.10 8.08	105 61	31.66 18.85	89 77	95 80	62 65	3	0	3 5	2
	MIAMI	92	78	96	76	85	1	1.42	-0.03	0.48	38.48	168	51.70	135	87	56	7	0	4	1
	ORLANDO	92	76	94	73	84	1	1.38	-0.09	0.91	22.30	107	33.93	96	90	64	7	0	3	1
	PENSACOLA	91	75	95	72	83	1	1.85	0.36	1.46	24.72	116	39.63	86	94	65	6	0	4	1
	TALLAHASSEE	91	74	95	70	83	1	1.32	-0.16	1.14	18.07	82	30.37	65	96	72	6	0	2	1
	TAMPA WEST PALM BEACH	93 90	78 77	96 93	77 76	86 84	3 1	0.50 1.18	-1.31 -0.61	0.28 0.39	30.67 21.72	157 108	47.11 42.73	147 109	87 91	58 63	7 5	0	3 6	0
GA	ATHENS	85	65	92	60	75	-2	0.97	0.17	0.90	17.78	147	33.81	103	88	60	1	0	2	1
	ATLANTA	87	69	91	66	78	0	0.94	0.14	0.92	10.41	84	31.57	90	81	52	2	0	2	1
	AUGUSTA	89	68	92	60	78	0	0.17	-0.83	0.17	22.76	179	37.24	116	88	54	3	0	1	0
	COLUMBUS MACON	89	71	96	64	80	-1	1.21	0.46	0.85	13.89	113	31.44	90	89	50	4	0	3	1
	SAVANNAH	89 89	68 72	93 93	60 67	79 81	0 1	0.26 1.72	-0.57 0.10	0.24 1.50	13.89 19.13	119 102	27.30 29.80	85 82	93 95	52 68	4	0	2	0
н	HILO	89	73	89	71	81	5	1.38	-0.85	0.92	23.44	84	57.97	71	79	64	0	0	5	1
	HONOLULU	92	78	95	74	85	3	0.00	-0.06	0.00	6.00	432	9.08	89	69	62	7	0	0	0
	KAHULUI	92	73	94	68	82	2	0.01	-0.08	0.01	0.48	38	9.76	81	77	67	7	0	1	0
ID	LIHUE BOISE	90 91	78 59	91 97	75 52	84 75	4 3	0.21 0.00	-0.20 -0.09	0.10 0.00	9.53 0.14	163 10	17.99 12.21	78 154	81 49	71 27	4	0	6 0	0
	LEWISTON	89	60	98	53	74	3	0.00	-0.09	0.00	1.34	51	9.28	107	54	33	4	0	1	0
	POCATELLO	87	48	93	39	68	2	0.00	-0.14	0.00	0.78	34	9.32	110	56	23	3	0	0	0
IL	CHICAGO/O'HARE	77	61	84	58	69	-1	1.51	0.45	1.40	10.62	90	31.84	128	78	53	0	0	2	1
	MOLINE PEORIA	78	58	85	55	68	-3	0.65	-0.32	0.53	9.62	74	34.80	128	88	56	0	0	3	1
	ROCKFORD	78 78	61 58	82 85	58 53	69 68	-2 -1	0.76 1.16	0.08 0.20	0.74 1.04	10.92 11.55	99 88	35.22 33.92	142 131	88 91	54 57	0	0	2	1
	SPRINGFIELD	79	61	83	55	70	-2	0.43	-0.31	0.39	11.99	112	35.10	142	94	59	0	0	2	0
IN	EVANSVILLE	83	65	88	57	74	-1	1.31	0.61	1.30	16.26	148	46.01	149	89	60	0	0	2	1
	FORT WAYNE	76	58	81	53	67	-2	1.47	0.68	1.13	10.41	93	29.26	115	93	58	0	0	2	1
	INDIANAPOLIS SOUTH BEND	79 77	62 55	83 84	56 49	71 66	-1 -3	1.33 0.26	0.54 -0.68	0.98 0.26	14.56 10.06	118 85	37.68 30.59	131 117	89 88	57 53	0	0	4 1	1
IA	BURLINGTON	77	60	83	49 57	68	-3 -5	1.67	0.82	1.03	9.23	72	30.59	117	88	53 56	0	0	4	2
	CEDAR RAPIDS	74	55	83	52	64	-6	0.19	-0.77	0.12	11.47	90	29.86	123	98	60	0	0	2	0
	DES MOINES	77	60	88	54	69	-3	0.51	-0.47	0.49	16.42	124	34.47	135	83	58	0	0	3	0
	DUBUQUE	75 77	54	82	49	65 67	-3	0.10	-0.96	0.09	13.87	112	31.63	125	96	66	0	0	2	0
	SIOUX CITY WATERLOO	77 76	58 55	84 84	50 51	67 66	-3 -3	0.72 0.01	0.11 -0.88	0.39 0.01	10.87 13.66	111 104	25.25 29.71	129 121	91 87	61 56	0	0	3 1	0
KS	CONCORDIA	81	64	90	56	73	-3 -2	0.67	0.03	0.49	14.26	125	29.35	135	91	69	1	0	4	0
	DODGE CITY	90	63	100	57	76	0	1.12	0.59	1.11	7.93	88	19.74	113	91	43	2	0	2	1
	GOODLAND	83	57 62	94	53 55	70 72	-1 3	0.73	0.32	0.73	13.19	141	21.00	128	95	73 65	1	0	1	1
	TOPEKA	81	62	93	55	72	-3	4.06	3.18	1.97	21.81	174	40.98	163	90	65	1	U	4	3

Based on 1971-2000 normals

*** Not Available

Weekly Weather and Crop Bulletin
Weather Data for the Week Ending August 31, 2019

									TOOK		•		31, 201		RELA	ATIVE	NUN	/IBER	OF D	AYS
	STATES	1	ГЕМЕ	PERA	TUR	E °	F			PRE	CIPITA	ATION	l			IDITY CENT	TEN	IP. °F	PRE	CIP
	AND								7	> .		٦.		7.			Ę	>		
٩	STATIONS	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	RTURE JORMA	WEEKLY TOTAL, IN.	RTURE	TEST II UR, IN.	TOTAL, IN., SINCE JUN 1	ORMA.	L, IN.	ORMA	AVERAGE MAXIMUM	AVERAGE MINIMUM	ABOV	AND BELOW	.01 INCH OR MORE	MORE
		AVE	AVE	EXTI	EXTI	AVE	DEPARTURE FROM NORMAL	WE! TOT	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTA SINCE	PCT. NORMAL SINCE JUN 1	TOTAL, IN., SINCE JAN01	PCT. NORMAL SINCE JAN01	AVE	AVE	90 AND ABOVE	32 AND	.01 OR A	.50 I
	WICHITA	85	65	92	61	75	-3	2.61	1.95	2.05	15.07	144	34.76	159	88	65	2	0	2	2
KY	JACKSON LEXINGTON	83 85	62 64	89 92	56 57	72 75	-1 1	1.08 1.04	0.17 0.28	0.64 0.96	16.23 13.15	121 100	39.46 36.52	116 112	99 83	53 54	0	0	2	1
	LOUISVILLE PADUCAH	85	66	90	60	75	-1	1.11	0.42	1.01	12.41	108	39.78	128	86	51	1	0	2	1
LA	BATON ROUGE	86 91	65 74	91 95	56 72	75 83	0 2	0.27 1.23	-0.40 -0.07	0.25 0.90	17.27 22.36	145 130	55.81 50.02	167 113	89 95	57 56	1 5	0	2	0
	LAKE CHARLES	93	77	95	74	85	3	0.28	-0.96	0.19	23.78	148	52.24	137	94	60	6	0	2	0
	NEW ORLEANS	93	77	95	74	85	3	1.11	-0.41	1.06	19.74	103	46.77	103	89	56	6	0	3	1
ME	SHREVEPORT CARIBOU	94 76	74 50	98 83	70 45	84 63	2 2	0.97 1.06	0.39 0.17	0.83 1.05	9.67 7.91	82 70	32.39 26.52	94 107	93 91	53 48	7	0	4	1
IVIL	PORTLAND	76	54	82	47	65	0	1.40	0.17	1.11	12.84	133	34.30	118	89	49	0	0	2	1
MD	BALTIMORE	83	62	91	58	73	0	0.00	-0.85	0.00	9.19	83	27.89	98	85	51	1	0	0	0
MA	BOSTON WORCESTER	78 74	62	87	57	70	-1	0.95	0.16	0.91	12.17	126	32.35	117	76	46	0	0	2	1
МІ	ALPENA	74 75	55 51	80 82	50 41	65 63	-1 1	1.57 0.04	0.66 -0.72	1.56 0.04	11.99 7.43	97 81	35.24 23.63	110 122	92 89	49 41	0	0	2	1
	GRAND RAPIDS	76	56	82	49	66	-2	1.44	0.48	0.80	11.70	106	31.53	131	86	47	0	0	3	2
I	HOUGHTON LAKE LANSING	73	50	78	38	62	-1	0.35	-0.53	0.16	9.27	99	24.77	129	88	50	0	0	3	0
	MUSKEGON	77 77	56 56	82 81	48 48	66 67	-1 0	1.16 0.78	0.25 -0.16	0.58 0.75	11.75 8.20	121 95	27.35 30.38	131 147	85 83	48 49	0	0	3	2
	TRAVERSE CITY	76	54	81	46	65	-1	0.75	-0.10	0.73	8.96	91	26.29	122	88	49	0	0	3	0
MN	DULUTH	71	52	74	46	61	0	0.95	-0.07	0.77	9.24	73	21.87	102	80	53	0	0	4	1
	INT'L FALLS MINNEAPOLIS	67 74	49 58	74 76	41 53	58 66	-3 -2	1.78 0.82	1.04 -0.06	1.04 0.80	11.99 16.49	114 133	20.91 33.90	124 156	91 80	58 51	0	0	5 3	2
	ROCHESTER	74 72	58 52	76 75	53 48	62	-2 -3	0.82	-0.06 -0.51	0.80	18.01	133	33.90	170	90	57	0	0	2	0
	ST. CLOUD	71	54	72	46	62	-3	0.60	-0.32	0.49	13.59	115	28.66	145	92	51	0	0	2	0
MS	JACKSON	91	70	94	64	80	0	3.12	2.37	2.91	13.39	110	42.64	110	91	52	5	0	2	1
	MERIDIAN TUPELO	91 88	70 69	94 91	63 61	80 78	-1 0	1.00 1.31	0.33 0.70	0.43 1.06	12.55 19.72	98 177	45.40 57.70	110 152	91 91	61 57	5 2	0	3 2	0
МО	COLUMBIA	80	63	90	58	72	-2	4.00	3.17	1.75	15.56	134	38.24	138	90	63	1	0	3	3
	KANSAS CITY	79	62	89	56	70	-5	4.67	3.84	1.52	18.77	151	43.31	166	98	64	0	0	4	4
	SAINT LOUIS SPRINGFIELD	83	66	89	62	75	-1	2.66	2.01	0.94	16.71	157	43.07	163	85	57	0	0	5	2
МТ	BILLINGS	81 83	65 56	90 95	62 52	73 70	-3 2	1.21 0.03	0.26 -0.16	0.50 0.02	12.84 7.41	107 184	40.12 16.22	138 151	90 66	70 25	1	0	3	1 0
	BUTTE	78	41	86	36	59	0	0.00	-0.30	0.00	3.83	78	10.06	103	81	21	0	0	0	0
	CUT BANK	75	45	81	38	60	0	0.18	-0.21	0.14	5.11	89	10.00	99	85	30	0	0	2	0
	GLASGOW GREAT FALLS	77 80	53 47	87 90	48 41	65 63	-1 0	0.49 0.06	0.24 -0.30	0.46 0.04	8.98 4.27	172 80	13.54 13.80	154 120	75 93	54 24	0	0	2 2	0
	HAVRE	78	48	86	39	63	-2	0.12	-0.13	0.04	4.89	106	9.60	108	82	41	0	0	3	0
	MISSOULA	82	48	91	43	65	1	0.06	-0.21	0.06	2.54	64	10.35	106	75	41	1	0	1	0
NE	GRAND ISLAND LINCOLN	77 80	59	85	52	68	-3	1.91	1.22	1.43	20.58	207	36.41	183	89	68	0	0	3	1
	NORFOLK	76	61 56	90 82	51 47	70 66	-3 -4	0.64 1.11	-0.10 0.53	0.30 0.63	11.26 11.27	108 104	26.53 26.73	126 130	86 90	64 59	1	0	3	0
	NORTH PLATTE	79	56	86	48	68	-2	0.01	-0.36	0.01	15.81	186	28.67	180	92	58	0	0	1	0
	OMAHA	79	63	88	56	71	-1	0.33	-0.38	0.25	11.98	109	27.21	123	84	58	0	0	2	0
	SCOTTSBLUFF VALENTINE	84 79	54 53	94 85	51 43	69 66	1 -3	0.02 0.90	-0.20 0.51	0.02 0.47	11.67 14.78	195 172	26.98 30.52	212 195	90 87	47 50	1	0	1 2	0
NV	ELY	91	47	92	41	69	6	0.90	-0.16	0.47	0.72	33	12.07	175	49	18	6	0	1	0
	LAS VEGAS	108	84	110	82	96	9	0.00	-0.07	0.00	0.04	4	4.64	144	22	14	7	0	0	0
	RENO WINNEMUCCA	96 05	62 51	99	57 41	79 73	11	0.00	-0.07	0.00	0.25	26 30	8.76	178	45	23	7	0	0	0
NH	CONCORD	95 79	51 50	101 84	41 44	73 65	6 -1	0.00 1.10	-0.08 0.38	0.00 1.10	0.39 12.62	30 130	7.41 29.03	134 119	41 95	18 41	7	0	1	0
NJ	NEWARK	80	63	89	59	72	-2	0.02	-0.85	0.02	18.77	155	42.72	135	75	47	0	0	1	0
NM	ALBUQUERQUE	96	67	99	63	82	7	0.00	-0.35	0.00	2.42	66	5.87	93	46	17	7	0	0	0
NY	ALBANY BINGHAMTON	79 70	56 53	85 76	52 50	67 62	0 -3	0.04 0.22	-0.79 -0.58	0.04 0.22	13.76 12.07	126 113	30.08 30.19	117 118	84 90	44 61	0	0	1	0
	BUFFALO	76	59	79	53	67	0	0.22	-0.72	0.22	10.06	93	28.38	110	83	48	0	0	2	0
	ROCHESTER	78	56	83	51	67	0	0.30	-0.57	0.24	8.22	84	21.21	95	87	47	0	0	2	0
NC	SYRACUSE ASHEVILLE	76 78	56 50	78 85	52 52	66 68	-2 3	1.08	0.22	1.08	13.49	119 116	31.94	124	84	49 55	0	0	1	1
INC	CHARLOTTE	78 84	59 64	85 90	52 60	68 74	-3 -4	0.11 0.03	-0.88 -0.80	0.09 0.02	14.57 17.67	116 162	41.71 39.13	127 133	91 89	55 48	0 2	0	2 2	0
	GREENSBORO	82	63	88	60	72	-3	0.00	-0.83	0.00	17.82	153	38.08	129	94	53	0	0	0	0
	HATTERAS	86	72	89	65	79	1	0.01	-1.48	0.01	11.95	78	40.50	109	91	57	0	0	1	0
	RALEIGH WILMINGTON	84 86	62 68	90 90	57 66	73 77	-3 -2	0.05 0.01	-0.80 -1.65	0.04 0.01	11.96 14.68	104 72	32.39 26.07	109 65	91 95	52 51	1	0	2	0
ND	BISMARCK	74	52	83	45	63	-2 -3	2.33	1.90	2.33	11.80	161	19.28	151	95 89	59	0	0	1	1
	DICKINSON	76	47	86	42	61	-5	0.04	-0.32	0.03	8.57	124	17.38	139	88	37	0	0	2	0
	FARGO	71	53	74	44	62	-4	1.73	1.18	1.23	12.96	145	22.97	149	91	57	0	0	3	1
	GRAND FORKS JAMESTOWN	72 70	53 52	77 73	44 45	62 61	-3 -5	1.08 1.45	0.52 1.00	0.80 1.45	8.83 13.07	100 152	16.84 21.27	117 150	87 95	51 58	0	0	4 1	1
	WILLISTON	70 78	52 50	73 87	45 42	64	-5 -1	0.02	-0.28	0.02	8.86	145	13.03	122	95 83	58 45	0	0	1	0
ОН	AKRON-CANTON	78	59	84	54	69	0	0.20	-0.61	0.18	16.91	151	35.78	135	86	53	0	0	2	0
	CINCINNATI	80	63	88	53	71	-2	1.46	0.65	0.84	16.40	137	44.30	147	85	62	0	0	2	2
	CLEVELAND COLUMBUS	79 79	61 61	81 87	57 56	70 70	1 -2	0.16 1.37	-0.75 0.60	0.14 0.76	13.93 13.56	125 109	32.33 35.85	126 132	86 85	49 56	0	0	2 2	0 2
	DAYTON	79 79	61	86	55	70 70	-2 -1	0.82	0.60	0.76	13.56	94	35.85	132	85 84	56 54	0	0	2	1
	MANSFIELD	77	59	82	55	68	Ö	0.38	-0.66	0.24	18.14	136	38.63	128	95	54	Ö	ő	2	Ö

Based on 1971-2000 normals

*** Not Available

Weekly Weather and Crop Bulletin
Weather Data for the Week Ending August 31, 2019

				****	attici	Da	ta 10	r the Week Ending August 31, 2019		REL	ATIVE	NUN	/IBER	OF D	AYS					
	STATES	٦	ГЕМБ	PERA	TUR	E °	F			PREC	CIPITA	ATION	I			IDITY CENT	TEM	IP. °F	PRE	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	79 76	60 56	83 81	54 52	69 66	0 -1	0.81 0.22	0.04 -0.60	0.46 0.21	15.72 18.50	161 162	33.51 40.63	148 158	82 91	52 54	0	0	3	0
OK	OKLAHOMA CITY TULSA	86	68	96	66	77	-2	4.09	3.46	1.38	14.31	142	38.20	158	98	66	2	0	4	3
OR	ASTORIA	87 75	68 54	96 91	64 47	78 65	-2 4	1.73 0.04	0.95 -0.35	0.89 0.04	16.91 3.67	161 74	44.07 25.67	159 68	94 91	75 67	2	0	3	2
	BURNS	90	46	98	39	68	6	0.09	0.01	0.09	1.37	91	11.41	164	62	27	4	0	1	0
	EUGENE	89	56	100	53	73	7	0.09	-0.22	0.09	1.14	36	23.20	79	77	51	2	0	1	0
	MEDFORD PENDLETON	96 88	61 57	105 96	56 49	78 73	7	0.03 0.01	-0.12 -0.13	0.03 0.01	0.89 0.47	59 27	14.74 9.75	141 121	65 57	22 33	7 4	0	1	0
	PORTLAND	87	61	98	56	74	6	0.01	-0.13	0.01	2.48	77	15.41	73	75	55	2	0	2	0
	SALEM	88	57	100	53	72	6	0.17	-0.05	0.17	1.17	43	19.72	87	80	49	2	0	1	0
PA	ALLENTOWN ERIE	80	58	86	54	69	-1	0.07	-0.94	0.07	20.11	159	46.48	153	82	49	0	0	1	0
	MIDDLETOWN	76 80	61 61	79 87	56 57	69 71	0 -2	0.41	-0.68 -0.77	0.41 0.00	12.26 10.52	104 98	28.87 32.85	109 120	77 87	52 47	0	0	1 0	0
	PHILADELPHIA	82	64	88	61	73	-2	0.03	-0.81	0.03	16.63	145	37.81	131	77	48	0	0	1	0
	PITTSBURGH	77	59	83	53	68	-2	0.66	-0.11	0.52	15.80	138	36.75	139	85	45	0	0	3	1
1	WILKES-BARRE WILLIAMSPORT	78 76	56 57	82 83	52 53	67 66	-2 -3	0.13 0.36	-0.63 -0.46	0.12 0.24	18.89 16.26	175 137	38.29 36.76	153 132	91 93	49 53	0	0	2 2	0
RI	PROVIDENCE	76 78	58	85	53 51	68	-3 -2	0.36	-0.46	0.24	10.50	100	34.31	112	93 87	55	0	0	3	1
SC	CHARLESTON	87	70	90	66	79	-1	0.00	-1.64	0.00	22.19	117	29.90	82	91	57	2	0	0	0
	COLUMBIA FLORENCE	88 87	66 66	92 92	58	77 77	-2 -2	0.04 0.02	-1.13 -1.09	0.04	13.93	87 107	25.84 29.23	73	84 89	50	3	0	1	0
	GREENVILLE	82	63	92 89	60 60	73	-2 -3	1.45	0.60	0.02 1.45	15.89 15.26	107	36.30	91 105	88	47 49	0	0	1	1
SD	ABERDEEN	74	54	79	43	64	-4	0.25	-0.25	0.20	11.28	128	22.12	141	88	55	0	0	2	0
	HURON	72	56	77	50	64	-5	1.27	0.86	0.99	18.35	224	33.03	204	90	57	0	0	3	1
	RAPID CITY SIOUX FALLS	77 74	48 57	88 79	41 49	62 66	-7 -2	0.42 0.82	0.12 0.13	0.41 0.52	12.37 12.50	191 133	29.63 30.56	225 167	86 87	38 58	0	0	2	0
TN	BRISTOL	82	59	91	54	70	-2 -2	0.46	-0.18	0.32	15.13	136	41.54	141	95	49	1	0	3	0
	CHATTANOOGA	85	66	92	59	76	-1	0.75	-0.08	0.72	11.05	90	45.62	122	90	59	3	0	3	1
	KNOXVILLE MEMPHIS	84	64	89	57	74	-2	2.47	1.90	1.21	16.03	138	48.23	142	93	50	0	0	4	2
	NASHVILLE	88 87	70 66	90 92	66 58	79 76	-1 -1	1.23 1.04	0.56 0.28	0.63 0.75	21.53 17.59	187 158	52.24 47.61	143 146	90 89	54 49	1 2	0	2 2	2
TX	ABILENE	99	73	109	69	86	5	0.18	-0.48	0.18	4.64	63	18.98	123	79	46	7	0	1	0
	AMARILLO	91	67	99	65	79	4	0.55	-0.08	0.55	9.28	104	17.05	113	85	38	5	0	1	1
	AUSTIN BEAUMONT	99 93	75 76	102 94	72 74	87 85	3	0.00 4.34	-0.52 3.10	0.00 2.45	6.97 29.91	86 180	26.15 53.67	121 137	85 94	47 65	7 7	0	0 5	0
	BROWNSVILLE	99	80	101	78	90	6	0.02	-0.92	0.02	8.02	104	13.69	88	96	51	7	0	1	0
	CORPUS CHRISTI	97	78	99	76	87	4	0.12	-0.87	0.11	3.37	37	13.02	66	95	56	7	0	2	0
	DEL RIO EL PASO	104	79	109	76	92	8	0.00	-0.35	0.00	7.85	132	13.26	106	70	44	7 7	0	0	0
	FORT WORTH	100 94	74 74	106 102	69 70	87 84	7 1	0.16 1.49	-0.23 1.10	0.10 1.18	2.04 7.36	50 100	2.74 27.14	47 118	58 88	23 50	5	0	2	0
	GALVESTON	92	82	94	79	87	3	0.19	-0.98	0.16	10.81	92	27.93	102	86	62	7	0	4	0
	HOUSTON	96	76	98	74	86	3	1.96	0.99	1.50	12.10	98	29.23	94	90	55	7	0	3	1
	LUBBOCK MIDLAND	95 101	69 73	109 113	66 68	82 87	6 8	0.20 0.28	-0.38 -0.12	0.20 0.28	8.71 3.38	117 63	15.61 11.43	120 121	80 71	45 42	5 7	0	1	0
	SAN ANGELO	101	72	109	67	87	7	0.00	-0.56	0.00	4.86	86	14.49	109	77	44	7	0	0	0
	SAN ANTONIO	99	78	101	76	88	5	0.00	-0.63	0.00	5.96	67	15.29	71	85	37	7	0	0	0
	VICTORIA WACO	97	77	100	74	87	3	0.17	-0.68	0.14	5.84	54	15.87	62	93	67	7	0	2	0
	WICHITA FALLS	96 95	75 71	100 108	72 67	85 83	1 1	0.02 1.04	-0.39 0.40	0.02 0.83	8.19 6.06	114 79	27.50 21.07	128 110	88 96	61 61	6 5	0	1 2	0
UT	SALT LAKE CITY	93	66	97	59	79	6	0.00	-0.18	0.00	1.05	47	15.26	139	39	15	5	0	0	0
VT VA	BURLINGTON LYNCHBURG	79	56	82	51	68	2	0.34	-0.58	0.34	9.60	84	26.22	110	87	41	0	0	1	0
VA	NORFOLK	83 83	59 70	91 90	51 66	71 76	-2 0	0.10 0.05	-0.64 -0.95	0.10 0.05	11.37 16.89	98 123	28.67 35.63	97 111	93 87	50 58	1	0	1	0
	RICHMOND	86	63	93	59	75	0	0.04	-0.84	0.04	13.66	110	34.04	113	88	50	2	0	1	0
	ROANOKE	82	61	90	56	72	-1	0.16	-0.69	0.16	13.75	120	31.49	107	86	50	1	0	1	0
WA	WASH/DULLES OLYMPIA	82 79	60 53	89 91	55 45	71 66	-2 4	0.28 0.12	-0.61 -0.23	0.27 0.12	9.97 2.20	87 59	29.85 17.22	106 60	84 88	52 64	0	0	2	0
***	QUILLAYUTE	79 75	53 54	90	45 45	64	5	0.12	-0.23 -0.55	0.12	5.65	66	37.30	64	95	66	1	0	3	0
	SEATTLE-TACOMA	80	61	89	57	71	6	0.07	-0.22	0.06	3.26	99	17.22	83	74	59	0	0	2	0
	SPOKANE YAKIMA	83	57	92	53	70	4	0.02	-0.14	0.02	1.44	55	9.12	88	64	29	1	0	1	0
wv	BECKLEY	88 77	54 56	93 87	47 51	71 67	4 -1	0.03 0.37	-0.05 -0.32	0.03 0.16	0.89 12.37	74 102	6.78 35.61	138 120	72 87	38 56	3	0	1 3	0
1	CHARLESTON	83	59	90	56	71	0	0.16	-0.70	0.10	11.43	88	34.02	110	94	47	1	0	2	0
1	ELKINS	79	54	86	49	67	0	0.59	-0.35	0.54	18.03	132	38.70	119	89	52	0	0	3	1
WI	HUNTINGTON EAU CLAIRE	82 73	61 52	88 77	55 46	71 63	-2 -4	1.93 0.62	1.17 -0.48	1.04 0.50	15.63 12.20	128 95	36.69 30.56	122 132	95 93	56 46	0	0	3	2
1 ***	GREEN BAY	73 72	52 54	77	46 48	63	-4 -2	1.06	0.18	0.50	12.20	129	29.70	132	93	46 56	0	0	3	1
	LA CROSSE	78	57	85	51	67	-2	0.22	-0.74	0.22	13.55	108	30.46	130	85	41	0	0	1	0
1	MADISON MILWAUKEE	75 76	54	83	48	65	-2 1	0.36	-0.62	0.36	13.80	112	31.50	133	90	56	0	0	1	0
WY	CASPER	76 86	60 45	86 92	53 39	68 66	-1 0	1.69 0.00	0.75 -0.12	1.67 0.00	11.12 4.67	100 135	28.93 14.89	120 157	79 76	55 32	0	0	2	1
	CHEYENNE	82	53	91	50	68	4	0.00	-0.36	0.00	7.58	122	20.15	166	74	35	1	0	0	0
	LANDER SHERIDAN	85 81	52 49	90 90	46 43	69 65	2 0	0.07 0.07	-0.05 -0.13	0.07 0.04	2.19	86 134	15.57 16.13	167 154	59 84	17 34	1	0	1 2	0
	SHERIDAN	ØΙ	49	90	43	ບວ	U	0.07	-0.13	0.04	5.28	134	10.13	104	04	34	1	U		U

Based on 1971-2000 normals

National Agricultural Summary

August 26 - September 1, 2019

Weekly National Agricultural Summary provided by USDA/NASS

HIGHLIGHTS

Rain fell most heavily in parts of Kansas, Kentucky, Mississippi, Missouri, and Texas, with some areas receiving 4 inches or more. Temperatures were more than 6°F above normal in parts of California, Nevada, Oregon, the southern Rocky Mountains, and the Southwest. In contrast, temperatures were 4°F or more below normal on the northern Plains.

Corn: By September 1, eighty-one percent of the corn acreage was at or beyond the dough stage, 14 percentage points behind last year and 12 points behind the 5-year average. At least 85 percent of the acreage in Iowa, Kansas, Missouri, Nebraska, North Carolina, Tennessee, and Texas was at or beyond the dough stage by week's end. By September 1, forty-one percent of this year's crop was denting, 32 percentage points behind last year and 22 points behind average. All of the estimating states, except Texas, were behind their respective average for denting progress. Six percent of the 2019 corn acreage had matured by September 1, fourteen percentage points behind last year and 7 points behind average. Overall, 58 percent of the nation's corn was rated in good to excellent condition, 1 percentage point above the previous week but 9 points below the same time last year.

Soybeans: By September 1, ninety-six percent of the nation's soybean acreage had reached the blooming stage, 4 percentage points behind both last year and the 5-year average. Nationally, 86 percent of the soybeans were setting pods, 12 percentage points behind last year and 10 points behind average. On September 1, fifty-five percent of the soybeans were rated in good to excellent condition, unchanged from the previous week but 11 percentage points below the same time last year.

Cotton: By September 1, ninety-seven percent of the nation's cotton had set bolls, 2 percentage points ahead of last year and 1 point ahead of the 5-year average. By September 1, thirty-six percent of the nation's cotton had open bolls, 8 percentage points ahead of last year and 9 points ahead of average. On September 1, forty-eight percent of the 2019 cotton acreage was rated in good to excellent condition, 5 percentage points above the previous week and 7 points above the same time last year.

Sorghum: By September 1, ninety-two percent of the nation's sorghum had reached the heading stage, 4 percentage points behind last year and 3 points behind the 5-year average. Fifty-two percent of sorghum was at or beyond the coloring stage by September 1, fifteen percentage points behind last year and 12 points behind average. Sorghum coloring advanced 10 percentage points or more in Colorado, Kansas, Oklahoma, and South Dakota during the week. By

September 1, twenty-four percent of the nation's sorghum was mature, 6 percentage points behind last year and 9 points behind average. Seventy-six percent of the sorghum in Texas had matured by September 1, two percentage points ahead of both last year and the average. Twenty-one percent of the 2019 sorghum acreage was harvested by September 1, one percentage point behind both last year and the average. As of September 1, sixty-seven percent of the nation's sorghum was rated in good to excellent condition, 1 percentage point above the previous week and 15 points above the same time last year.

Rice: Nationally, 21 percent of the rice acreage was harvested by September 1, eight percentage points behind last year and 6 points behind the 5-year average. As of September 1, seventy percent of the rice was rated in good to excellent condition, 1 percentage point above the previous week but 5 points below the same time last year.

Small Grains: By September 1, eighty-four percent of the nation's oats had been harvested, 9 percentage points behind last year and 7 points behind the 5-year average. The oat harvest was complete or nearing completion in Iowa, Nebraska, Ohio, South Dakota, and Texas.

Seventy-two percent of the nation's barley acreage was harvested by September 1, eleven percentage points behind both last year and the 5-year average. During the week ending September 1, harvest progress advanced 16 percentage points or more in four of the five estimating states.

By September 1, fifty-five percent of the spring wheat acreage was harvested, 31 percentage points behind last year and 23 points behind the 5-year average. During the week, harvest progress advanced 18 percentage points or more in four of the six estimating states. On September 1, sixty-seven percent of the nation's spring wheat was rated in good to excellent condition, 2 percentage points below the previous week and 7 points below the same time last year.

Other Crops: On September 1, sixty-seven percent of the nation's peanut acreage was rated in good to excellent condition, 2 percentage points above the previous week but 8 points below the same time last year.

Crop Progress and ConditionWeek Ending September 1, 2019

Corn Percent Dough									
	Prev	Prev	Sep 1	5-Yr					
	Year	Week	2019	Avg					
СО	92	56	72	85					
IL	100	75	82	97					
IN	96	59	70	93					
IA	95	76	86	94					
KS	95	84	90	94					
KY	92	76	83	90					
MI	83	45	57	82					
MN	96	74	84	94					
МО	100	84	89	98					
NE	97	80	90	95					
NC	99	97	98	99					
ND	95	47	72	87					
ОН	92	52	63	89					
PA	80	62	70	76					
SD	97	56	76	92					
TN	100	96	98	99					
TX	97	94	96	96					
WI	85	48	61	81					
18 Sts	95	71	81	93					
These 18 States planted 92%									
of last year's	s corn acr	eage.							

	Corn Condition by								
		Perc							
	VP	Р	F	G	EX				
СО	0	2	15	64	19				
IL	4	15	35	40	6				
IN	8	19	40	29	4				
IA	3	8	27	51	11				
KS	4	12	34	40	10				
KY	3	7	23	51	16				
MI	7	16	32	34	11				
MN	3	9	33	45	10				
МО	4	18	40	33	5				
NE	1	5	17	56	21				
NC	15	20	29	29	7				
ND	1	5	20	64	10				
ОН	7	18	41	31	3				
PA	1	7	20	56	16				
SD	2	6	27	49	16				
TN	0	1	13	60	26				
TX	1	7	36	45	11				
WI	3	9	22	47	19				
18 Sts	3	10	29	47	11				
Prev Wk	3	10	30	47	10				
Prev Yr	4	8	21	46	21				

Corn Percent Dented										
	Prev	Prev	Sep 1	5-Yr						
	Year	Week	2019	Avg						
СО	42	10	22	44						
IL	89	34	46	76						
IN	72	17	26	63						
IA	75	21	41	64						
KS	80	51	65	72						
KY	80	57	70	77						
МІ	49	9	14	40						
MN	64	7	25	57						
МО	91	43	61	84						
NE	70	36	54	66						
NC	93	90	93	94						
ND	67	5	8	44						
ОН	64	9	16	53						
PA	47	34	44	46						
SD	71	7	18	53						
TN	92	79	87	89						
TX	90	86	89	82						
WI	51	11	18	42						
18 Sts	73	27	41	63						
These 18 State	These 18 States planted 92%									
of last year's	corn acr	eage.								

Rice I	Percer	t Harve	ested	
	Prev	Prev	Sep 1	5-Yr
	Year	Week	2019	Avg
AR	18	3	11	17
CA	0	0	0	0
LA	83	66	75	80
MS	45	2	15	26
МО	1	0	0	3
TX	84	52	63	81
6 Sts	29	15	21	27
These 6 States	harves	ted 100%	, D	
of last year's ri	ice acre	age.		

Spring Wheat Percent Harvested											
	Prev	Prev	Sep 1	5-Yr							
	Year	Week	2019	Avg							
ID	72	45	69	77							
MN 97 45 65 81											
MT	73	34	46	76							
ND	86	34	52	73							
SD	99	53	79	91							
WA	86	47	61	90							
6 Sts	86	38	55	78							
These 6 States harvested 99%											
of last year's spring wheat acreage.											

Co	rn Perc	ent Ma	ture	
	Prev	Prev	Sep 1	5-Yr
	Year	Week	2019	Avg
СО	2	NA	1	2
IL	32	NA	2	18
IN	21	NA	1	13
IA	14	NA	1	7
KS	34	7	16	26
KY	57	23	40	45
MI	6	NA	0	2
MN	5	NA	0	2
МО	46	NA	6	29
NE	8	0	1	7
NC	78	68	83	81
ND	10	NA	0	4
ОН	12	NA	1	7
PA	1	NA	4	5
SD	12	NA	0	6
TN	44	21	42	42
TX	67	51	52	65
WI	7	NA	0	4
18 Sts	20	NA	6	13
These 18 Sta	ates plante	ed 92%		-
of last year'	s corn acr	eage.		

	Rice Condition by									
	Percent									
	VP	Р	F	G	EX					
AR	2	6	31	41	20					
CA	0	0	0	45	55					
LA	1	4	30	58	7					
MS	1	2	17	69	11					
МО	3	6	37	38	16					
TX	1	4	30	54	11					
6 Sts	1	4	25	47	23					
Prev Wk	1	5	25	48	21					
Prev Yr	0	3	22	59	16					

VP 8	Perc P	ent F	G	EX
	=	F	G	ΕX
8	E	•		
_	5	26	55	6
1	4	19	62	14
2	10	28	50	10
1	5	23	63	8
2	3	33	52	10
1	4	38	50	7
2	6	25	58	9
1	5	25	60	9
1	4	21	63	11
	1 2 1 2	1 4 2 10 1 5 2 3 1 4 2 6 1 5	1 4 19 2 10 28 1 5 23 2 3 33 1 4 38 2 6 25 1 5 25	1 4 19 62 2 10 28 50 1 5 23 63 2 3 33 52 1 4 38 50 2 6 25 58 1 5 25 60

Crop Progress and ConditionWeek Ending September 1, 2019

Soybeans Percent Blooming					
	Prev	Prev	Sep 1	5-Yr	
	Year	Week	2019	Avg	
AR	100	98	100	100	
IL	100	93	95	100	
IN	100	89	93	100	
IA	100	96	98	100	
KS	99	90	94	98	
KY	98	87	91	95	
LA	100	100	100	100	
MI	100	90	95	100	
MN	100	100	100	100	
MS	100	98	100	100	
MO	96	88	93	95	
NE	100	97	98	100	
NC	98	92	96	95	
ND	100	98	99	100	
ОН	100	89	94	100	
SD	100	93	96	100	
TN	100	93	95	100	
WI	100	88	92	100	
18 Sts	100	94	96	100	
These 18 St	ates plante	ed 95%			
of last year	's soybean	acreage	э.		

Cotton Percent Setting Bolls					
	Prev	Prev	Sep 1	5-Yr	
	Year	Week	2019	Avg	
AL	97	97	99	99	
AZ	100	100	100	99	
AR	100	100	100	100	
CA	67	92	95	89	
GA	97	97	100	99	
KS	94	69	81	78	
LA	100	100	100	100	
MS	99	92	95	98	
МО	100	96	100	95	
NC	94	96	98	97	
ОК	90	96	97	90	
SC	94	99	100	97	
TN	100	97	100	98	
TX	95	85	96	94	
VA	98	90	95	98	
15 Sts	95	90	97	96	
These 15 States planted 99%					
of last year's	cotton a	creage.			

Soybeans Percent Setting Pods					
	Prev	Prev	Sep 1	5-Yr	
	Year	Week	2019	Avg	
AR	99	91	95	98	
IL	100	79	84	97	
IN	99	65	76	97	
IA	97	84	90	96	
KS	92	73	83	89	
KY	89	69	80	85	
LA	100	100	100	99	
МІ	94	65	78	95	
MN	100	94	97	98	
MS	98	91	95	97	
МО	92	65	74	86	
NE	97	83	90	98	
NC	82	73	86	83	
ND	100	89	93	99	
ОН	99	70	82	98	
SD	99	73	85	97	
TN	97	83	89	94	
WI	96	73	81	96	
18 Sts	98	79	86	96	
These 18 States planted 95%					
of last year's	soybean	acreage	9.		

Cotton Percent Bolls Opening					
	Prev	Prev	Sep 1	5-Yr	
	Year	Week	2019	Avg	
AL	39	29	48	32	
AZ	62	50	61	60	
AR	50	18	42	32	
CA	0	7	9	16	
GA	24	30	42	34	
KS	16	2	4	13	
LA	77	33	53	69	
MS	52	15	29	39	
MO	51	13	20	23	
NC	22	15	28	24	
ок	17	10	15	14	
SC	15	24	40	25	
TN	48	8	13	26	
TX	23	34	38	24	
VA	24	11	23	19	
15 Sts	28	28	36	27	
These 15 States planted 99%					
of last year's o	otton a	creage.			

Soybean Condition by					
Percent					
	VP	Р	F	G	EX
AR	3	12	28	38	19
IL	4	13	37	39	7
IN	7	19	41	28	5
IA	3	8	29	51	9
KS	3	8	36	46	7
KY	2	7	26	54	11
LA	3	6	29	55	7
MI	4	14	37	37	8
MN	2	7	33	50	8
MS	1	4	27	52	16
МО	3	11	40	40	6
NE	1	4	16	64	15
NC	3	9	29	47	12
ND	3	6	27	57	7
ОН	6	17	42	31	4
SD	2	7	32	46	13
TN	0	3	22	61	14
WI	1	5	24	47	23
18 Sts	3	10	32	46	9
Prev Wk	3	10	32	46	9
Prev Yr	3	8	23	49	17

Cotton Condition by					
Percent					
	VP	Р	F	G	EX
AL	2	9	27	47	15
AZ	0	6	24	51	19
AR	0	3	11	38	48
CA	0	0	65	30	5
GA	2	7	33	48	10
KS	6	15	38	37	4
LA	0	5	23	63	9
MS	1	3	38	43	15
МО	9	14	51	26	0
NC	7	15	22	44	12
ок	0	7	42	48	3
sc	0	7	42	49	2
TN	0	2	15	64	19
TX	1	20	42	31	6
VA	1	1	5	88	5
15 Sts	1	14	37	39	9
Prev Wk	2	15	40	35	8
Prev Yr	15	18	26	31	10

Crop Progress and ConditionWeek Ending September 1, 2019

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

Sorghum Percent Headed					
	Prev	Prev	Sep 1	5-Yr	
	Year	Week	2019	Avg	
СО	94	89	93	91	
KS	96	81	90	95	
NE	100	94	97	100	
ок	91	82	90	91	
SD	95	90	95	96	
TX	97	92	96	96	
6 Sts	96	86	92	95	
TI 0011 I 1 10=01					

These 6 States planted 97% of last year's sorghum acreage.

Sorghum Percent Harvested					
	Prev	Prev	Sep 1	5-Yr	
	Year	Week	2019	Avg	
СО	0	0	0	0	
KS	1	0	0	0	
NE	0	0	0	0	
ОК	3	0	1	3	
SD	0	0	0	0	
TX	65	69	72	57	
6 Sts	22	20	21	22	
These 6 States harvested 98%					
of last year's sorghum acreage.					

Oats Percent Harvested					
	Prev	Prev	Sep 1	5-Yr	
	Year	Week	2019	Avg	
IA	99	98	100	99	
MN	94	76	88	91	
NE	100	97	99	100	
ND	90	40	58	81	
ОН	100	96	100	100	
PA	87	77	84	87	
SD	100	79	92	98	
TX	100	100	100	100	
WI	83	66	73	86	
9 Sts	93	75	84	91	
These 9 States harvested 65%					
of last year's oat acreage.					

Sorghum Percent Coloring						
	Prev	Prev	Sep 1	5-Yr		
	Year	Week	2019	Avg		
СО	57	7	19	44		
KS	57	23	39	50		
NE	73	21	27	67		
ок	56	26	43	59		
SD	51	25	38	55		
TX	84	86	90	82		
6 Sts	67	41	52	64		
These 6 States planted 97%						
of last year's s	of last year's sorghum acreage.					

Sorghum Condition by					
		Perc	ent		
	VP	Р	F	G	EX
СО	1	3	14	69	13
KS	2	7	29	53	9
NE	0	1	12	68	19
ок	0	2	31	65	2
SD	1	1	15	74	9
TX	1	5	29	40	25
6 Sts	1	5	27	53	14
Prev Wk	1	6	27	51	15
Prev Yr	5	12	31	43	9

Barley Percent Harvested						
	Prev	Prev Prev Sep 1				
	Year	Week	2019	Avg		
ID	84	62	83	82		
MN	99	76	92	91		
MT	71	51	68	82		
ND	94	46	64	84		
WA	88	48	59	90		
5 Sts	83	54	72	83		
These 5 States harvested 83%						
of last year's barley acreage.						

Sorghum Percent Mature								
	Prev	Prev	Sep 1	5-Yr				
	Year	Week	2019	Avg				
СО	0	0	1	3				
KS	6	0	1	5				
NE	6	0	0	4				
ок	21	9	15	21				
SD	1	0	0	5				
TX	74	73	76	74				
6 Sts	30	22	24	33				
These 6 States planted 97%								
of last year's sorohum acreage								

of last year's sorghum acreage.

Peanut Condition by								
Percent								
	VP	Р	F	G	EX			
AL	0	8	43	43	6			
FL	2	5	32	55	6			
GA	1	6	26	55	12			
NC	4	9	32	41	14			
ок	0	0	14	75	11			
sc	0	3	39	53	5			
TX	0	0	14	75	11			
VA	0	1	3	81	15			
8 Sts	1	5	27	57	10			
Prev Wk	1	6	28	54	11			
Prev Yr	1	3	21	57	18			

Week Ending September 1, 2019

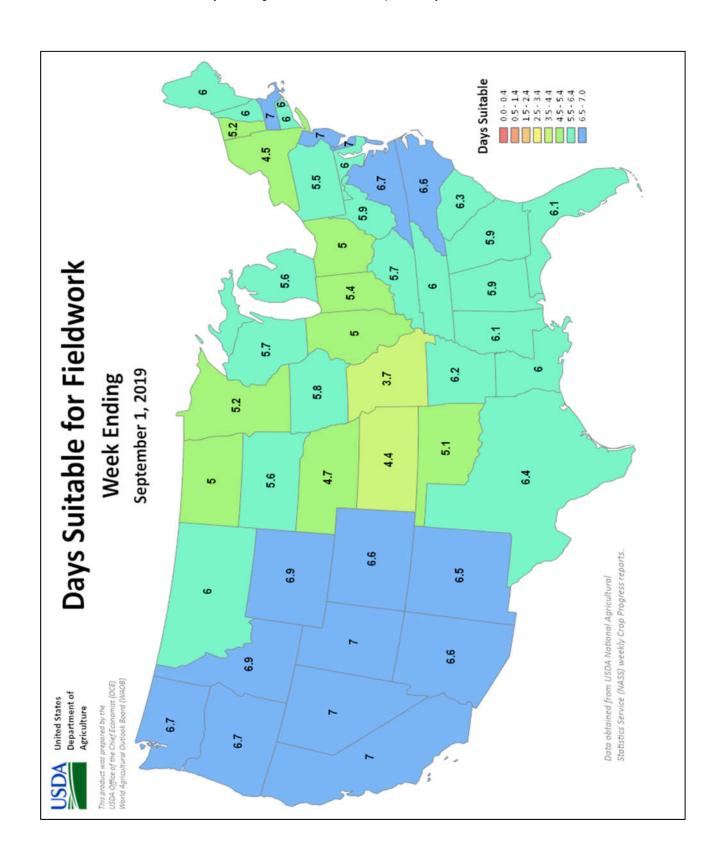
Weekly U.S. Progress and Condition Data provided by USDA/NASS

	Pasture and Range Condition by Percent Week Ending Sep 1, 2019										
	VP	Р	F	G	EX		VP	Р	F	G	EX
AL	3	14	36	41	6	NH	6	9	38	45	2
AZ	2	33	50	14	1	NJ	4	6	42	48	0
AR	1	4	28	54	13	NM	16	26	31	22	5
CA	20	30	5	45	0	NY	1	9	32	48	10
СО	3	5	18	66	8	NC	2	15	44	36	3
СТ	0	0	100	0	0	ND	2	6	21	63	8
DE	6	27	34	23	10	ОН	3	11	43	32	11
FL	1	8	15	53	23	ок	2	9	30	51	8
GA	5	14	40	37	4	OR	12	24	39	24	1
ID	1	12	34	42	11	PA	1	4	51	39	5
IL	5	14	35	40	6	RI	0	15	55	30	0
IN	8	23	39	27	3	sc	0	10	46	42	2
IA	4	13	38	41	4	SD	1	3	14	55	27
KS	1	6	25	58	10	TN	1	8	32	51	8
KY	6	18	35	37	4	TX	17	28	34	20	1
LA	0	6	37	52	5	UT	1	5	22	60	12
ME	0	0	0	30	70	VT	0	15	62	23	0
MD	1	13	56	30	0	VA	6	29	40	23	2
MA	0	10	30	60	0	WA	11	31	32	26	0
MI	6	26	31	31	6	wv	3	8	32	53	4
MN	1	7	26	58	8	WI	2	6	27	47	18
MS	0	6	35	47	12	WY	3	16	37	37	7
МО	1	4	25	56	14	48 Sts	5	13	29	44	9
MT	2	7	29	47	15						
NE	1	2	12	66	19	Prev Wk	5	13	30	43	9
NV	10	10	30	50	0	Prev Yr	10	18	30	36	6

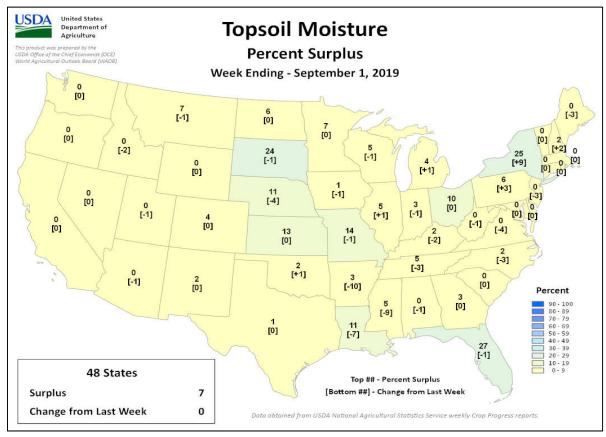
VP - Very Poor; P - Poor; F - Fair; G - Good; EX - Excellent

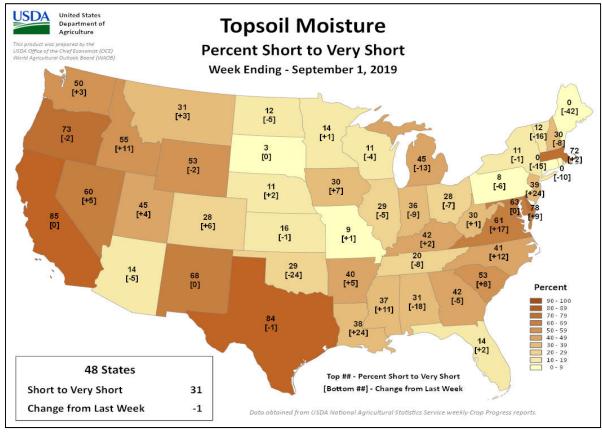
NA - Not Available; *Revised

Week Ending September 1, 2019

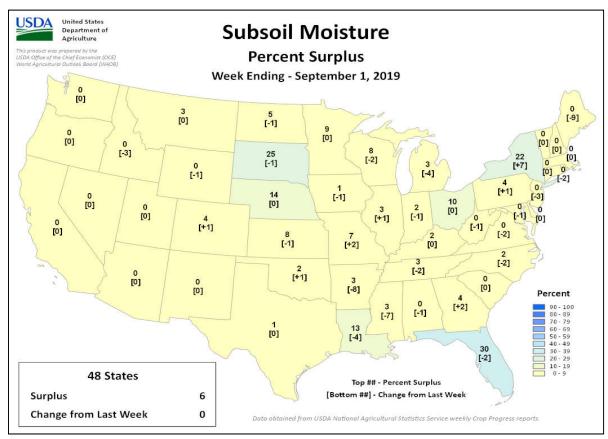


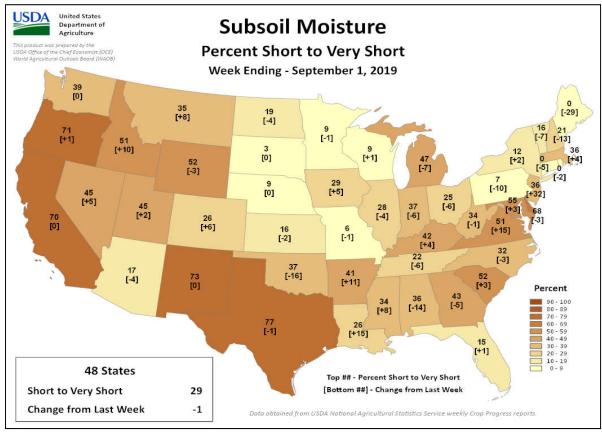
Week Ending September 1, 2019





Week Ending September 1, 2019





International Weather and Crop Summary

August 25-31, 2019

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

EUROPE: Despite some showers, mostly dry and very warm weather accelerated summer crop maturation and drydown but maintained localized drought concerns in northern Europe.

WESTERN FSU: Increasingly dry, warm weather accelerated summer crop maturation but trimmed yield prospects for later-developing corn and soybeans in parts of Ukraine.

EASTERN FSU: Cool, rainy weather was generally too late to benefit filling to maturing spring wheat, while seasonably sunny, hot weather accelerated cotton development in the south.

MIDDLE EAST: Sunny skies aided summer crop drydown and early harvesting in Turkey.

SOUTH ASIA: Widespread monsoon showers benefited kharif crops in India.

EAST ASIA: Ample rainfall continued in northeastern China, maintaining high yield potential for corn and other crops.

SOUTHEAST ASIA: Heavy rainfall from Tropical Cyclone Podul provided moisture for rice in the Philippines as well as Thailand and environs.

AUSTRALIA: Rain benefited wheat, barley, and canola in the west, while isolated showers in the east offered little drought relief.

ARGENTINA: Warm weather supported overwintering grains, but moisture will be needed soon as vegetative growth advances.

BRAZIL: Mostly dry weather favored harvesting of corn and cotton, as showers returned to southernmost wheat areas.

MEXICO: Seasonal rainfall remained lighter than normal over many agricultural regions.

CANADIAN PRAIRIES: Showers hampered spring crop harvesting in eastern farming areas.

August 2019

COUNTRY	CITY	Auţ	<u> </u>	TEMPER	RATURE			PR	ECIP.
00011111				((MM)
		AVG	AVG	HI	LO	41/0	DEP	тот	DEP
ALGERI	ALGER	MAX 34	MIN 22	MAX 40	MIN 16	AVG 28	NRM 2.9	TOT 1	NRM -6
ALGENI	BATNA	37	18	43	15	28	2.2	13	-0 -4
ARGENT	IGUAZU	26	12	34	2	19	0.8	9	-108
	FORMOSA	25	12	34	4	19	0.5	45	-17
	CERES	21	8	33	-1	14	0.5	7	-11
	CORDOBA	21	4	34	-3	13	0	0	-11
	RIO CUARTO ROSARIO	19	5	31	-3	12	1.1	0	-18
	BUENOS AIRES	18 17	6 6	29 28	-2 -3	12 12	0.3 0.3	3 16	-35 -36
	SANTA ROSA	18	3	32	-6	10	0.7	3	-23
	TRES ARROYOS	15	4	25	-5	10	0.7	8	-33
AUSTRA	DARWIN	31	20	35	16	25	-0.8	0	-8
	BRISBANE	22	11	27	7	16	0.7	3	-34
	PERTH CEDUNA	20 18	8 7	30 29	2 -1	14 13	0.7	116 10	-1 -23
	ADELAIDE	15	8	29	-1 2	11	0.1 -0.4	38	-23 -13
	MELBOURNE	14	6	19	1	10	-0.2	39	-6
	WAGGA	14	2	20	-2	8	-1.3	7	-45
	CANBERRA	13	1	18	-5	7	-0.1	12	-37
AUSTRI	VIENNA	28	17	33	10	23	2.5	112	52
ВАНАМА	INNSBRUCK NASSAU	25	14	33	8	20	2.1	158	41
BARBAD	BRIDGETOWN	33 31	26 25	35 32	21 23	29 28	1.3 0.3	301 82	53 -64
BELARU	MINSK	23	11	30	5	17	0.2	92	30
BERMUD	ST GEORGES	30	26	32	23	28	0.3	195	65
BOLIVI	LA PAZ	16	-4	19	-10	6	-0.4	1	-25
BRAZIL	FORTALEZA	31	24	33	23	27	0.1	10	0
	RECIFE	27	23	28	21	25	-1.1	122	-33
	CAMPO GRANDE FRANCA	30 26	18 16	35 32	7 10	24 21	0.4	0	-28 38
	RIO DE JANEIRO	26	18	33	13	22	0.6 -0.2	55 22	-24
	LONDRINA	28	14	35	6	21	2.5	0	-62
	SANTA MARIA	21	10	33	0	16	-0.2	92	-21
	TORRES	21	11	26	6	16	-2.8	19	-121
BULGAR	SOFIA	30	15	33	11	23	3.8	29	-15
BURKIN CANADA	OUAGADOUGOU LETHBRIDGE	31 26	24 10	34	21 3	28 18	1.2	210 25	-31 *****
CANADA	REGINA	24	9	35 34	2	16	****	96	*****
	WINNIPEG	25	15	33	10	20	****	63	*****
	TORONTO	26	16	30	12	21	1.5	43	-36
	MONTREAL	26	16	31	12	21	1.3	62	-31
	PRINCE ALBERT	22	7	29	2	15	-1.6	22	-38
	CALGARY VANCOUVER	22	10 14	31	4	16	0.6 1	60	0
CANARY	LAS PALMAS	23 28	22	26 32	10 21	19 25	0.6	26 0	-14 *****
CHILE	SANTIAGO	20	4	29	-2	12	2.8	0	-58
CHINA	HARBIN	24	18	30	13	21	-0.3	178	70
	HAMI	36	20	41	15	28	3.5	0	-5
	BEIJING	30	21	34	16	26	0.7	66	-93
	TIENTSIN LHASA	31 23	21 12	35 27	18 9	26 18	-0.1 2.4	174	22 17
	KUNMING	23 26	18	27 29	9 14	22	2.4	141 123	-80
	CHENGCHOW	32	23	35	18	27	1.7	257	149
	YEHCHANG	34	24	40	19	29	1.5	67	-112
	HANKOW	36	26	39	19	31	2.1	15	-92
	CHUNGKING	36	27	40	23	31	2.8	103	-24
	CHIHKIANG	35	24	39	20	30	2.4	21	-85 40
	WU HU SHANGHAI	34 32	25 26	37 36	19 18	29 29	1.1 0.9	71 366	-48 221
	NANCHANG	36	28	38	24	32	3.1	45	-79
	TAIPEI	34	28	38	25	31	1.6	199	-112
	CANTON	34	25	37	24	29	0.7	475	258
L.	NANNING	34	25	37	24	29	0.9	223	15
COLOMB	BOGOTA	19	9	21	5	14	0.9	59	19
COTE D CUBA	ABIDJAN CAMAGUEY	28 33	24	30 35	22	26 28	1.5	20 550	-22 362
CYPRUS	LARNACA	33 34	23 23	35 36	22 21	28 29	0.9 1.3	550 1	362 *****
CZECHR		~ r							
00	PRAGUE	25	14	30	9	20	2.4	88	27
DENMAR		25 23	14 15	30 30	9 11	20 19	2.4 2	88 38	27 -16 *****

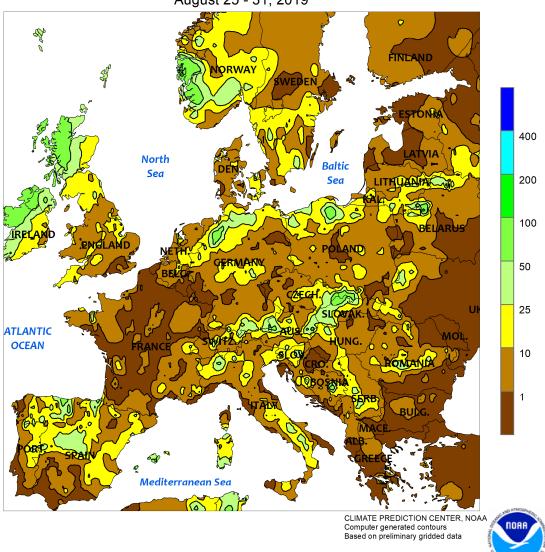
Based on Preliminary Reports

Based on Preliminary Reports

August 2019

	August 2019																		
COUNTRY	CITY			TEMPEF (C					ECIP. //M)	COUNTRY	CITY			TEMPER (C					ECIP. //M)
		AVG MAX	AVG MIN	HI MAX	LO MIN	AVG	DEP NRM	тот	DEP NRM			AVG MAX	AVG MIN	HI MAX	LO MIN	AVG	DEP NRM	тот	DEP NRM
	ASWAN	***	***	39	32	***	****	****	*****	MOROCC	CASABLANCA	26	21	31	17	23	0.5	0	0
ESTONI	TALLINN	22	12	27	6	17	1.4	86	9		MARRAKECH	39	22	46	17	31	2.7	0	-2
ETHIOP	ADDIS ABABA	20	13	26	12	***	****	253	-11	MOZAMB	MAPUTO	30	17	36	10	23	3	10	-4
F GUIA	CAYENNE	32	23	34	20	27	1.1	201	36	N KORE	PYONGYANG	31	23	35	18	27	2.1	71	-125
FIJI	NAUSORI	27	21	31	20	24	1.6	59	-83	NEW CA	NOUMEA	24	17	28	14	21	0.6	19	-46
FINLAN	HELSINKI	21	12	25	6	17	1.6	116	34	NIGER	NIAMEY	33	25	37	22	29	1.1	125	-65
FRANCE	PARIS/ORLY	27	16	33	11	21	1.4	68	24	NORWAY	OSLO	20	12	26	7	16	1.7	89	8
	STRASBOURG	28	15	33	11	21	2.3	67	9	NZEALA	AUCKLAND	15	9	20	3	12	****	192	*****
	BOURGES	29	15	35	11	22	2.6	18	-33	D DIOO	WELLINGTON	13	8	17	1	11		90	
	BORDEAUX	28	17	35	12	23	2.0	33	-26	P RICO	SAN JUAN	32	26	34	24	29	1.1	119	-14
	TOULOUSE MARSEILLE	30	18	36	12	24	2.3	58	7	PAKIST PERU	KARACHI LIMA	33	27	37	23	30	0.6	260	204
GABON	LIBREVILLE	32 28	20	35 29	16 24	26	2.2	9 1	-21 -6	PHILIP	MANILA	18 30	15 26	20 32	14	16	-0.8	1	-2 105
GERMAN	HAMBURG	26 25	14	32	10	19	2.1	75	-o 3	PNEWGU	PORT MORESBY	28	23	32 31	24 21	28 26	-0.1 0.1	587 289	165 264
GLINIAN	BERLIN	25 27	16	32 34	12	22	3.0	75 56	ა -1	POLAND	WARSAW	26 27	23 15	33	10	20	3.4	35	-21
	DUSSELDORF	26	14	34	9	20	1.3	61	-1 4	FOLAND	LODZ	27	14	33	5	20	2.3	39	-21 -16
	LEIPZIG	27	15	33	11	21	3.4	33	-26		KATOWICE	26	14	32	8	20	2.5	83	9
	DRESDEN	27	15	32	10	21	2.7	37	-35	PORTUG	LISBON	29	18	35	16	24	1.6	5	0
	STUTTGART	26	14	33	9	20	1.5	82	19	ROMANI	BUCHAREST	32	15	35	10	24	1.8	31	-25
	NURNBERG	26	14	31	9	20	1.5	81	22	RUSSIA	ST.PETERSBURG	21	13	25	8	17	0.9	47	-26
	AUGSBURG	25	13	32	8	19	1.0	92	8]	KAZAN	20	12	28	5	16	-0.7	131	68
GREECE	THESSALONIKA	33	22	37	19	28	1.9	1	-23		MOSCOW	21	12	29	7	17	0.2	67	-13
	LARISSA	35	19	40	16	27	1.1	10	-9		YEKATERINBURG	20	12	29	6	16	0.8	90	22
	ATHENS	34	25	38	22	30	1.8	0	-4		OMSK	24	12	34	6	18	1.6	41	-15
GUADEL	RAIZET	32	25	33	23	28	0.4	101	-68		BARNAUL	26	13	34	7	19	2.4	36	-18
HONGKO	HONG KONG INT	33	27	36	24	30	1.4	480	99		KHABAROVSK	23	16	29	11	19	-0.4	294	146
HUNGAR	BUDAPEST	30	18	35	12	24	3.2	25	-21		VLADIVOSTOK	22	18	30	15	20	0.3	521	370
ICELAN	REYKJAVIK	14	8	18	4	11	0.9	35	-33		VOLGOGRAD	29	15	37	7	22	0.2	15	-13
INDIA	AMRITSAR	34	26	36	22	30	0.6	93	-99		ASTRAKHAN	30	17	39	10	24	0.2	8	-15
	NEW DELHI	35	27	38	24	31	1.0	120	-121		ORENBURG	25	13	37	2	19	-1.2	33	5
	AHMEDABAD	32	26	35	24	29	0.3	312	63	S AFRI	JOHANNESBURG	23	10	25	6	16	3.7	0	-6
	INDORE	28	23	30	22	25	-0.2	405	94		DURBAN	24	15	32	13	20	1.6	2	-57
	CALCUTTA	33	27	36	24	30	0.4	446	137		CAPE TOWN	19	8	30	4	14	0.9	38	-34
	VERAVAL	30	27	32	26	28	0.6	140	-3	S KORE	SEOUL	32	24	37	19	28	1.7	193	-180
	BOMBAY	31	26	33	24	28	0.5	657	165	SAMOA	PAGO PAGO	30	26	31	24	28	1.2	221	58
	POONA	28	22	32	19	25	0.3	212	88	SENEGA	DAKAR	30	26	32	22	28	0.6	167	-49
	BEGAMPET	31	24	34	22	27	1.1	166	-22	SPAIN	VALLADOLID	31	15	35	10	23	1.5	18	3
	VISHAKHAPATNAM	31	24	34	-74	28	-1.4	255	118		MADRID	34	18	38	14	26	1.4	44	31
	MADRAS	35	26	39	20	30	0.3	181	34	OWITZE	SEVILLE	36	21	40	17	28	0.8	0	*****
INDONE	MANGALORE	28	23	30	21	26	-0.2	######		SWITZE	ZURICH	24	15	32	11	20	1.8	124	4
INDONE IRELAN	SERANG DUBLIN	33	22	34	20	28	0.5	1	-70	SYRIA	GENEVA DAMASCUS	27	15	34	10	21	1.8	62	-5 *****
ITALY	MILAN	20 31	12 20	22 34	8 15	16 26	0.5 2.5	93 11	25 -78	TAHITI	PAPEETE	38 30	20 23	41 32	15 22	29 26	2.5 1.7	0 11	-40
IIALI	VERONA							112		TANZAN	DAR ES SALAAM	31					2.3		
	VENICE	31 29	20 21	34 32	16 16	25 25	1.9 1.9	83	25 16	THAILA	PHITSANULOK	32	21 25	33 34	18 24	26 29	0.1	15 293	-13 39
	GENOA	***	***	34	21	***	*****	****	*****	ITIAILA	BANGKOK	34	27	37	24	30	1.1	99	-117
	ROME	31	20	34	16	25	1.1	2	-27	TOGO	TABLIGBO	32	23	35	22	27	2.2	24	-38
	NAPLES	33	23	35	21	28	3.1	0	-40	TRINID	PORT OF SPAIN	32	24	33	22	28	1.3	210	-25
JAMAIC	KINGSTON	33	26	34	23	30	1.0	37	-41	TUNISI	TUNIS	35	25	42	21	30	2.4	24	17
JAPAN	SAPPORO	26	20	34	16	23	1.3	149	10	TURKEY	ISTANBUL	30	23	34	17	26	2.2	34	20
	NAGOYA	34	26	38	22	30	2.3	208	66		ANKARA	30	15	37	10	22	1.6	14	2
	TOKYO	33	25	36	21	29	2.0	113	-43	TURKME	ASHKHABAD	36	23	43	17	29	0.2	0	-1
	YOKOHAMA	33	26	36	23	29	2.0	89	-74	UKINGD	ABERDEEN	19	11	24	6	15	0.9	66	5
	КҮОТО	34	26	39	21	30	1.4	360	228		LONDON	25	14	33	10	20	1.2	34	-9
	OSAKA	34	27	38	22	30	1.5	237	132	UKRAIN	KIEV	26	16	35	12	21	2.0	46	-12
KAZAKH	KUSTANAY	25	13	36	7	19	0.9	47	12		LVOV	26	14	32	8	20	2.9	103	31
	TSELINOGRAD	27	14	38	6	21	1.9	27	-6		KIROVOGRAD	28	14	34	10	21	1.2	16	-37
	KARAGANDA	27	13	36	6	20	1.7	23	-3	I	ODESSA	28	19	34	15	24	2.2	42	8
KENYA	NAIROBI	25	13	29	9	19	1.8	19	3		KHARKOV	27	15	34	9	21	1.7	8	-67
LIBYA	BENGHAZI	33	23	36	20	28	1.0	0	*****	UZBEKI	TASHKENT	35	20	42	15	27	1.6	0	-2
LITHUA	KAUNAS	24	13	29	6	18	1.8	73	9	YUGOSL	BELGRADE	32	20	38	14	26	4.1	37	-25
LUXEMB	LUXEMBOURG	25	15	32	10	20	2.4	51	-14	ZAMBIA	LUSAKA	26	15	32	9	21	1.1	0	0
MALAYS	KUALA LUMPUR	33	25	35	23	29	1.9	140	-6	ZIMBAB	KADOMA	24	***	32	4	***	****	2	1
MALI	BAMAKO	30	22	34	20	26	0.6	295	-7										
MARSHA	MAJURO	30	27	32	25	28	1.0	317	19	I									
MARTIN	LAMENTIN	32	25	34	24	28	1.5	189	-42										
MAURIT	NOUAKCHOTT	32	25	40	23	28	0.3	15	-33	I									
MEXICO	GUADALAJARA	28	18	29	16	23	1.9	230	18										
	TLAXCALA	25	12	26	9	18	0.7	126	-34	I									
	ORIZABA	27	17	30	14	22	2.3	268	-85										

EUROPE Total Precipitation (mm) August 25 - 31, 2019

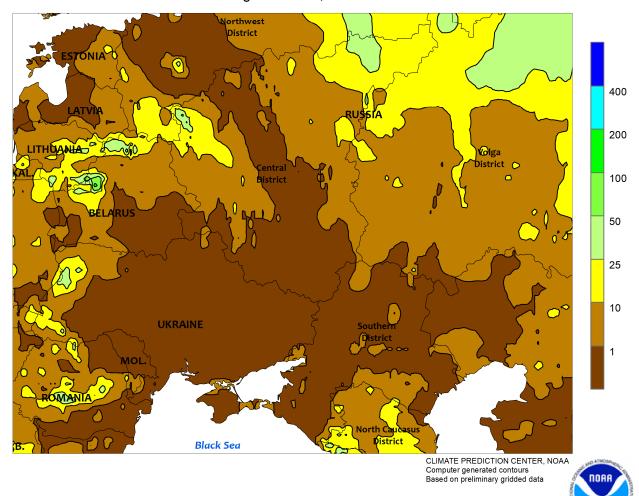


EUROPE

Despite some showers, generally dry and very warm weather accelerated summer crop maturation and drydown but maintained localized drought concerns. Late-summer heat (32-36°C) accelerated the maturation and drydown of corn, sunflowers, and soybeans over much of Europe. Scattered light to moderate showers (2-25 mm, locally more) were observed in central and northern-most growing areas, but some locales are in need of moisture for winter crop planting and establishment. In particular, summer drought (90-day rainfall locally less than 50 percent of normal) extended

intermittently from central and northeastern France into western and central Poland. Moisture will be needed soon in these locales, especially for winter rapeseed which is typically sown first. Elsewhere, moderate to heavy rain (5-50 mm) over northern and eastern Spain contrasted with persistent drought in central and southern portions of the country. Conversely, moisture supplies remained favorable for early winter crop sowing in England due to a wet summer, though southeastern growing areas were mostly dry (less than 5 mm) during the past week.

WESTERN FSU Total Precipitation (mm) August 25 - 31, 2019

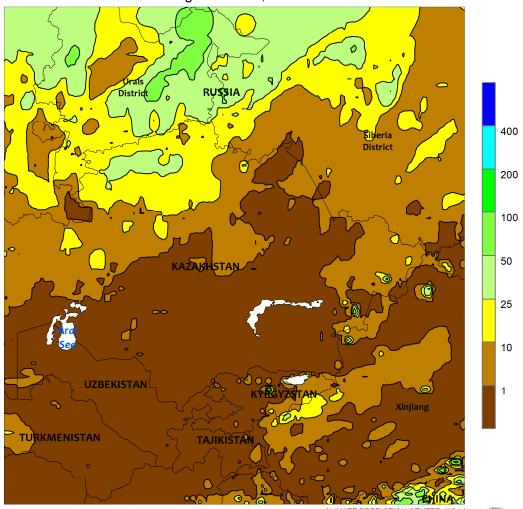


WESTERN FSU

Increasingly warm, dry weather accelerated summer crop maturation and drydown but amplified dryness concerns over northern and western Ukraine. After a mostly favorable summer growing season, developing short-term drought (60-day rainfall less than 50 percent of normal) in parts of northern and western Ukraine trimmed yield prospects for later-developing corn and soybeans. Conversely, near- to above-normal summer rainfall from southern and eastern Ukraine into western Russia maintained favorable conditions for filling to maturing

sunflowers and corn, with harvesting likely to begin over the next several weeks. Temperatures averaged 2 to 5°C above normal over many of these same locales, though impacts of the late-summer heat (daytime readings as high as 35°C near the Black Sea Coast) were negligible with crops now well beyond the temperature-sensitive reproductive and early filling stages of development. The warm, dry weather also encouraged early winter wheat sowing, with the aforementioned drought concerns mostly north and west of primary wheat growing areas.

EASTERN FSU Total Precipitation (mm) August 25 - 31, 2019



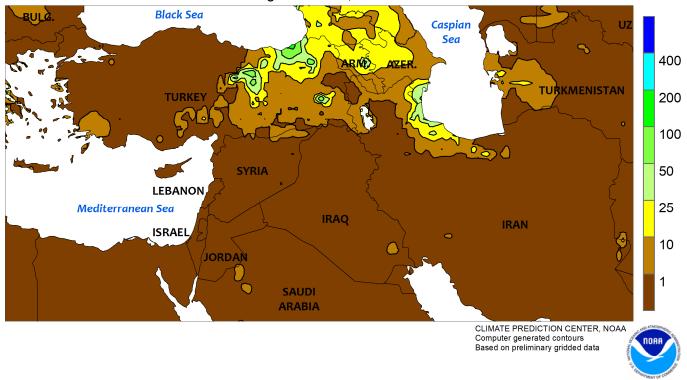
CLIMATE PREDICTION CENTER, NOAA Computer generated contours Based on preliminary gridded data

EASTERN FSU

A storm late in the week brought heavy rain (15-70 mm) to western and northern portions the region, though the moisture was too late to offer much benefit to filling spring grains. Prior to the storm's arrival, 60-day rainfall — encapsulating the key stages of development for spring wheat and barley — totaled less than 50 percent of normal (locally less than 25 percent) in the southeastern Volga District (Orangeburg),

northwestern Kazakhstan (Kostanay), as well as western portions of Russia's Siberia District (Omsk, Novosibirsk, and Altai Krai). As a result, spring grain yield prospects are down versus last year in both Russia and Kazakhstan. Farther south, sunny skies and above-normal temperatures (up to 3°C above normal) accelerated cotton maturation in Uzbekistan and environs.

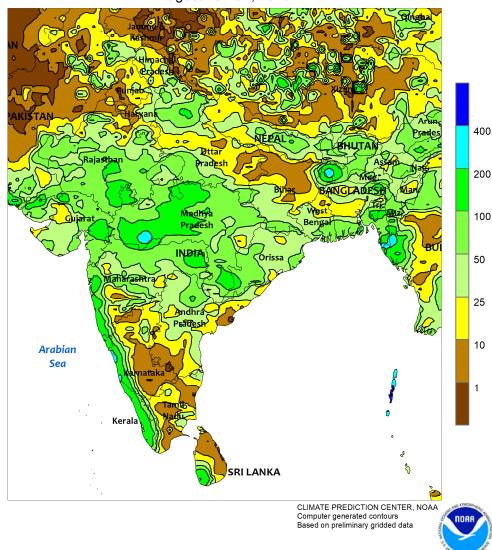
MIDDLE EAST Total Precipitation (mm) August 25 - 31, 2019



MIDDLE EAST

Seasonably dry, warm weather in Turkey promoted summer crop maturation and drydown. After locally heavy showers last week in northern Turkey, sunny skies were beneficial for corn and sunflower maturation and drydown. Elsewhere in Turkey, sunny, warm weather (up to 5°C above normal) favored seasonal fieldwork, including early cotton harvesting in western and southeastern Turkey. Winter grain sowing typically occurs in October in Turkey and Iran, and a bit later from Syria into Iraq.

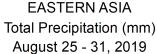
SOUTH ASIA Total Precipitation (mm) August 25 - 31, 2019

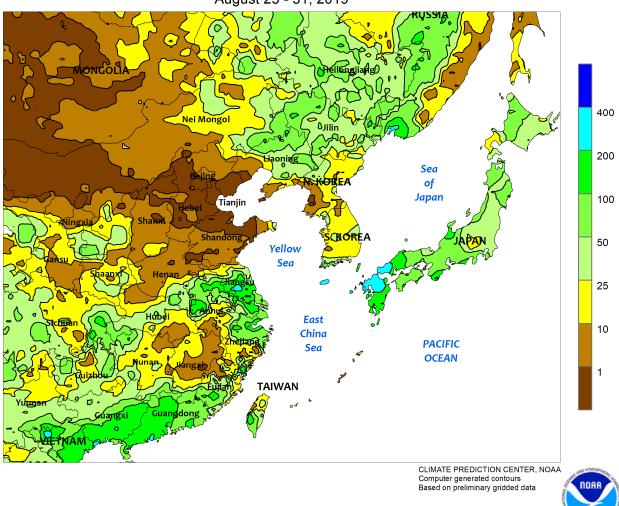


SOUTH ASIA

A broad swath of monsoon showers (25-200 mm) prevailed across central India, extending from eastern rice areas (Orissa and environs) to western cotton areas (Gujarat and environs). The highest rainfall totals (over 50 mm) were within the swath, maintaining abundant soil moisture for oilseeds, while the lesser amounts (below 50 mm) along the periphery boosted soil moisture and eased 60-day deficits for western-most

cotton and eastern-most rice. Overall moisture conditions have improved greatly over the last few weeks, rebounding from a slow start to the monsoon and relatively poor July rainfall. In other areas, mostly sunny weather in northern India and Pakistan promoted development of irrigated cotton and rice (harvested in October), while drier weather in central Bangladesh eased excessive wetness.

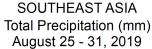


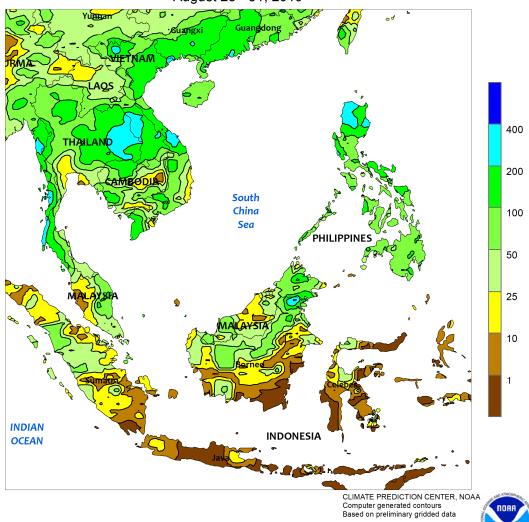


EASTERN ASIA

Widespread showers (25-50 mm, locally more) continued across northeastern China, maintaining excellent soil moisture for corn, soybeans, and rice in the latter stages of reproduction. In fact, most of the northeast has experienced above-average rainfall throughout the season, maintaining high yield potential for crops. Showers were also prevalent in southern China, as Tropical Cyclone Bailu moved ashore and produced in excess of 100 mm of rain for vegetative late-crop rice. Meanwhile, a narrow band of rain (25-100 mm) in the Yangtze Valley provided some drought relief, but due to the limited extent of

the rainfall many prefectures did not benefit. Farther north, little, if any, rain occurred on the North China Plain exacerbating already severe drought in Henan and furthering irrigation requirements for reproductive summer crops. Elsewhere, downpours (over 200 mm) were reported in southern Japan, while the rest of the country received more seasonable amounts (25-100 mm). Showers were unseasonably light (less than 25 mm) across most of the Korean Peninsula, providing little relief from severe to extreme seasonal drought.



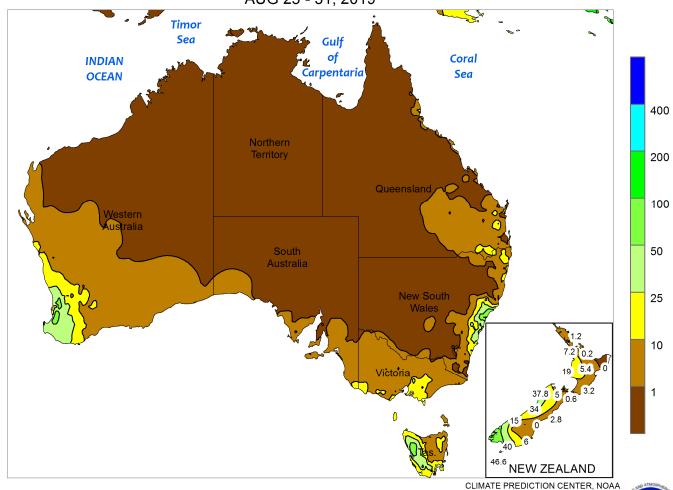


SOUTHEAST ASIA

A tropical cyclone (Podul) crossed the northern Philippines mid-week before moving into central Vietnam by week's end. The storm produced heavy showers (over 100 mm) in the northern Philippines, bolstering irrigation supplies and maintaining generally favorable moisture conditions for rice and corn. Similar rainfall totals were observed along the path of the storm in Indochina, with some localized values in excess of 300 mm in northeastern Thailand and neighboring portions of Laos. The storm-related rain fully eradicated seasonal

deficits in northeastern Thailand that have existed since the beginning of June. In addition, the recent moisture in Thailand and environs stabilized or improved rice prospects following a poor start to the wet season. In other parts of the region, showers (25-100 mm) in Malaysia and neighboring areas of Indonesia (Sumatra and Kalimantan) maintained mostly adequate soil moisture for oil palm, although annual rainfall totals (beginning October 1) in Malaysia remained around 15 percent below average.

AUSTRALIA Total Precipitation (mm) AUG 25 - 31, 2019



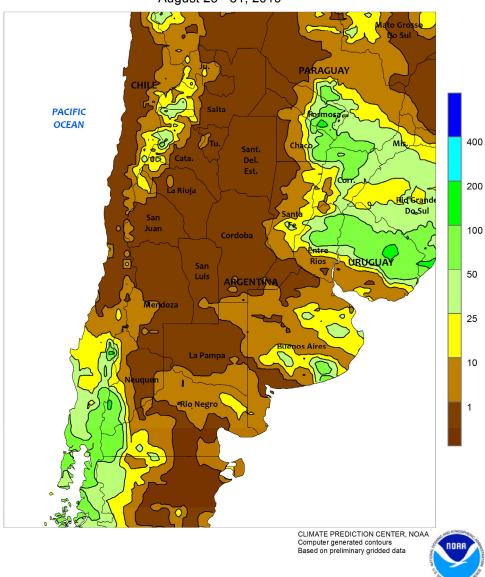
AUSTRALIA

Widespread showers (generally 10-25 mm) in Western Australia maintained good yield prospects for winter grains and oilseeds, which are in or nearing the critical reproductive stages of development. In contrast, widely scattered, generally light showers (less than 5 mm most areas) in South Australia and northern Victoria provided little additional moisture for wheat, barley, and canola. During the past few weeks, soil moisture was adequate to support crop development in these states but rainfall trended below normal. More consistent and widespread rainfall is needed to maintain yield prospects, especially with crops approaching reproduction. Crop conditions are already poor throughout most of New South Wales and mostly dry weather during the

last week offered no relief. Farther north, scattered showers (up to 15 mm) in southern Queensland helped moisten the topsoil in advance of summer crop planting, but the rain came too late to significantly improve wheat prospects. Much more rain is needed in both southern Queensland and New South Wales to end the long-term, severe drought gripping these states. Temperatures averaged near normal in the northeast (within 1°C of normal). Cooler-than-normal weather in the southeast (1-3°C below normal, minimum temperatures below freezing in some areas) helped reduce evaporative losses but may have caused local frost damage. In contrast, warmer-than-normal weather (1-3°C above normal) in the west accelerated crop development.

Computer generated contours Based on preliminary data

ARGENTINA Total Precipitation (mm) August 25 - 31, 2019

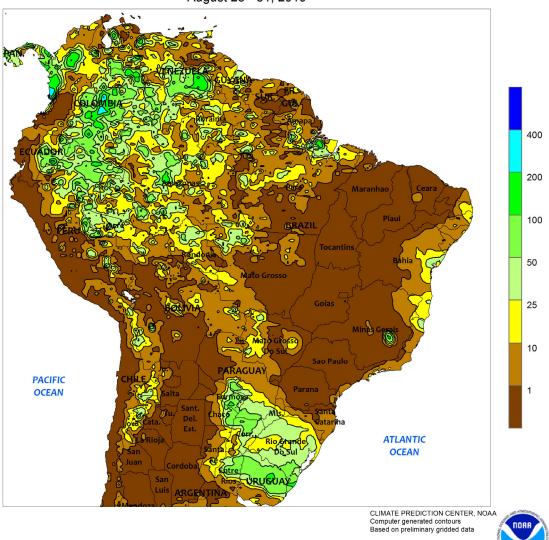


ARGENTINA

Unseasonably warm weather dominated the region, favoring overwintering grains but maintaining high evaporative losses in seasonably dry western farming areas. Weekly temperatures averaged 4 to 6°C above normal throughout nearly all agricultural areas, with highest daytime temperatures ranging from the middle and upper 20s (degrees C) in and around Buenos Aires to the upper 30s in the far north (including Santiago del Estero, Chaco, and Formosa). However, seasonably cooler weather returned at week's end, with nighttime lows dropping below freezing in the traditionally cooler southern wheat and barley areas. Locally heavy rain

(10-50 mm or more) returned to the northeast — including eastern parts of Chaco and Formosa — but dry weather continued in the western half of the region as well as sections of the lower Parana River Valley (northern Buenos Aires and nearby locations in Santa Fe and Entre Rios). These areas will need more rain soon as seasonal warming advances development of winter grains. According to the government of Argentina, harvesting of the main summer-grown commodities (notably corn and cotton) was virtually complete as of August 29, though the northeastern rain may have disrupted any lingering harvesting of cotton.

BRAZIL
Total Precipitation (mm)
August 25 - 31, 2019

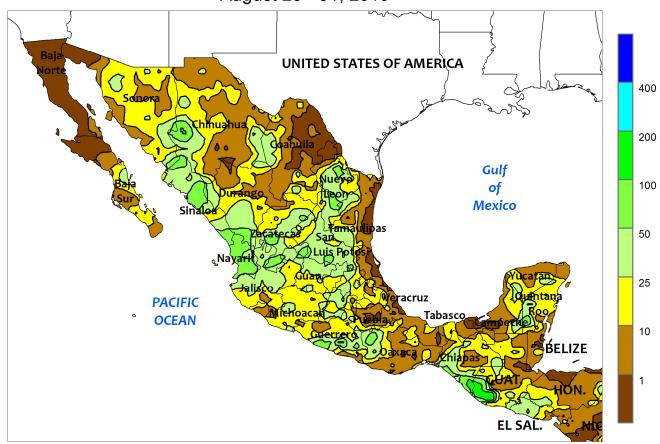


BRAZIL

Dry weather maintained an overall favorable pace of harvesting for corn and cotton in the main production areas of central and southern Brazil. No rain was recorded from Parana northward through Mato Grosso and the northeastern interior (Tocantins, western Bahia, and environs), with light seasonal showers (10-25 mm) limited to coffee, cocoa, and sugarcane areas along the northeast coast. According to the government of Mato Grosso, cotton was 90 percent harvested as of August 30, slightly ahead of the 5-year average (87 percent). In Parana, meanwhile, second-crop corn was

reportedly 96 percent harvested as of August 26; additionally, more than 80 percent of wheat had reached flowering, with 3 percent harvested. In contrast to the northern dryness, moderate to heavy rain (greater than 25 mm) returned to Rio Grande do Sul; according to government reports, wheat had reached 27 percent flowering as of August 29, slightly behind the 5-year average (29 percent). Weekly temperatures averaged near to above normal in nearly all interior agricultural areas, staying well above freezing in the southeastern wheat and coffee areas.





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

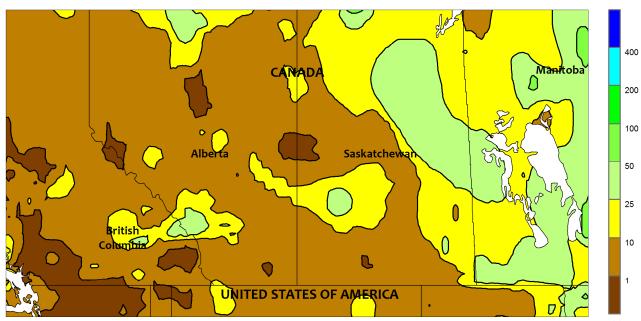
NORR

MEXICO

Seasonal showers continued to be lighter than normal in many agricultural areas, raising concern for rain-fed summer crops and future capacity for irrigation of winter-grown crops. Showers were generally patchy and light (5-25 mm) across key growing areas of the southern plateau (Jalisco to Puebla), though a few locales recorded locally heavier rain. Near- to above-normal temperatures (daytime highs reaching the upper 20s and lower 30s degrees C) accompanied the dryness, increasing crop moisture demands and exacerbating losses to evaporation. Similar conditions were recorded along the southern Pacific Coast (Michoacan to Oaxaca), where temperatures reached the middle 30s, and in drought-plagued

agricultural areas along the Gulf Coast (Veracruz south and eastward), where little to no rain fell. Meanwhile, showers (5-50 mm) were widely scattered across the north, though heavier rainfall (greater than 25 mm) was concentrated over watersheds in Sinaloa and nearby areas of Sonora and Chihuahua. Daytime highs reaching the lower 40s in some northern locations, including the Rio Grande Valley, maintained high water requirements for livestock and irrigated crops. On September 4, Tropical Storm Fernand was making landfall on the coast of Tamaulipas, promising some relief from the heat and dryness (additional information will appear in next week's Weather and Crop Bulletin).

CANADIAN PRAIRIES Total Precipitation (mm) August 25 - 31, 2019

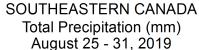


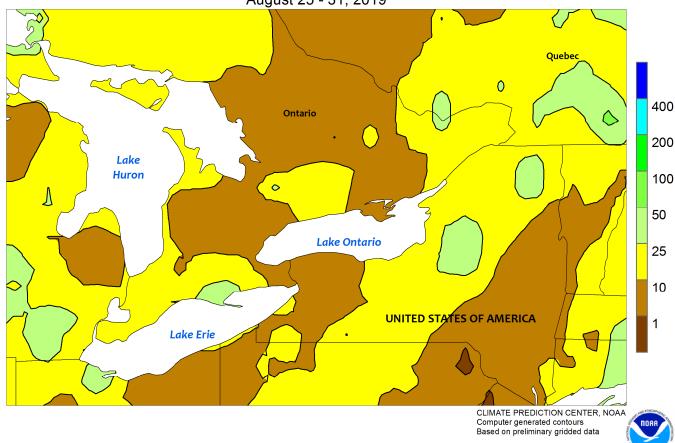
CLIMATE PREDICTION CENTER, NOAA Computer generated contours Based on preliminary gridded data

CANADIAN PRAIRIES

Showers slowed fieldwork in eastern sections of the Prairies, but drier conditions prevailed in much of the west. Rainfall totaled 10 to 25 mm or more in Manitoba and neighboring agricultural districts in Saskatchewan; aside from some pockets of rain farther west, mostly dry weather prevailed, with most locations recording less than 5 mm. With the exception of Alberta's southern farming areas, weekly temperatures continued to average below normal across the region, with nighttime lows dropping below 5°C in most locations. Daytime highs reached the upper 20s

(degrees C) along the southern borders of Alberta and Saskatchewan, otherwise daytime highs were generally capped in the lower and middle 20s. According to the government of Saskatchewan, harvesting of all crops was 6 percent complete as of August 25, lagging the 5-year average pace by 10 points. Similarly, Manitoba reported lags in harvesting when compared with 2018; spring wheat was 45 percent harvested as of August 27, compared with 70 percent last year, and canola was 12 percent harvested, 33 points behind last year's pace.

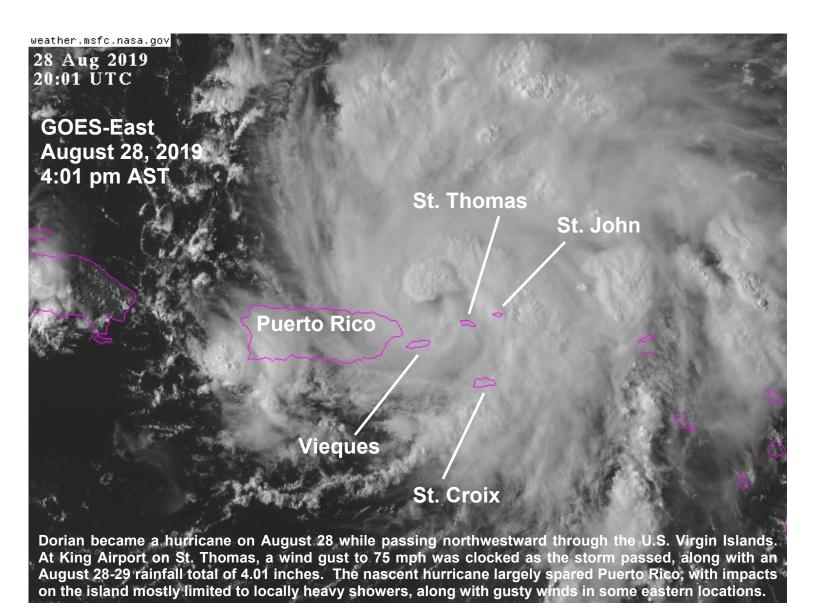




SOUTHEASTERN CANADA

Warm, showery weather overspread the region, locally slowing seasonal fieldwork such as corn and soybean harvesting and preparations for planting winter wheat. However, nearly all locations recorded less than 25 mm, and farmlands north of Lake Ontario received less than 10 mm for a third week. Meanwhile, seasonably warm weather, with daytime highs reaching the middle and upper 20s (degrees C), favored late developing summer crops,

although nighttime lows dropped below 10°C on several occasions. Reports from Ontario depict concerns that delays in soybean harvesting will translate to delays in planting winter wheat; the aforementioned dry locations in Ontario reach their optimal planting date within the next few weeks and although conditions currently favor summer crop harvesting, additional moisture would be welcome for winter crop germination.



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