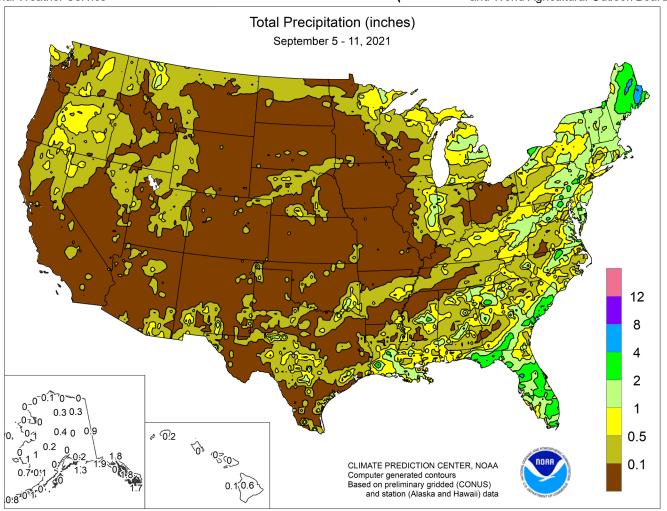
WEEKLY MATHER AND CROP BULLETIN

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



HIGHLIGHTSSeptember 5 – 11, 2021

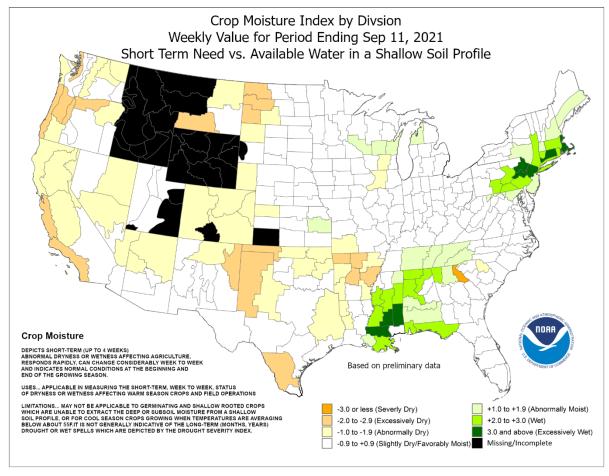
Highlights provided by USDA/WAOB

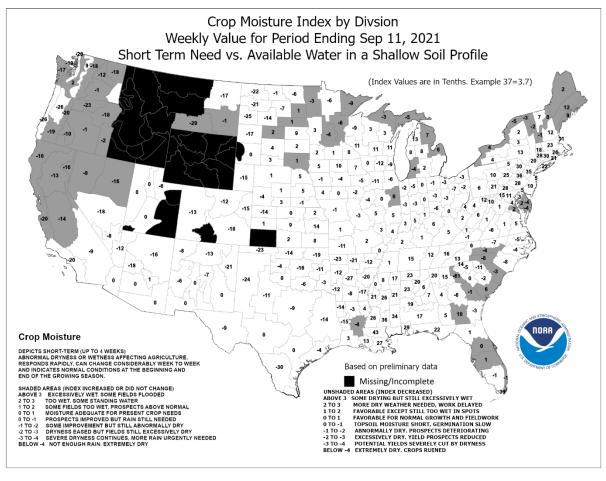
pen weather across much of the country favored summer crop maturation and fieldwork, including harvest efforts and winter wheat planting. By September 12, more than one-third (37 percent) of the U.S. corn was fully mature, while 38 percent of the soybeans were dropping leaves, versus respective 5-year averages of 31 and 29 percent. Meanwhile, among the 13 major production states that have planted some winter wheat, all except **Oregon** were at or ahead of the 5-year average pace. **Oregon's** delay—4 percent planted, versus 7 percent on average—can be

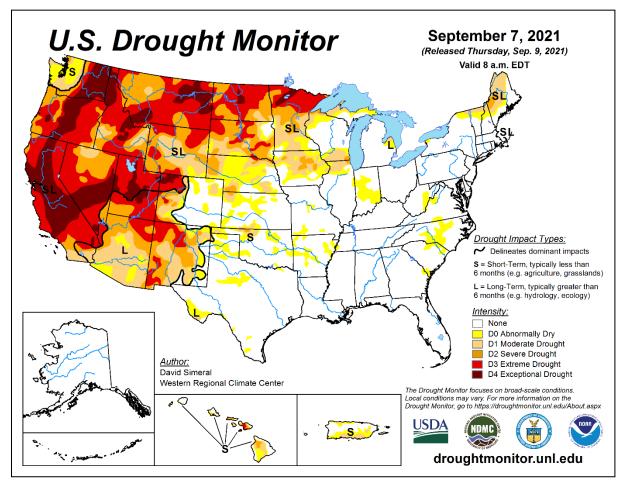
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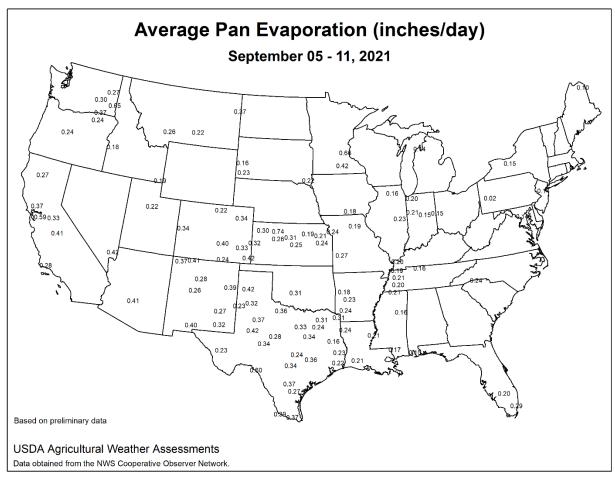
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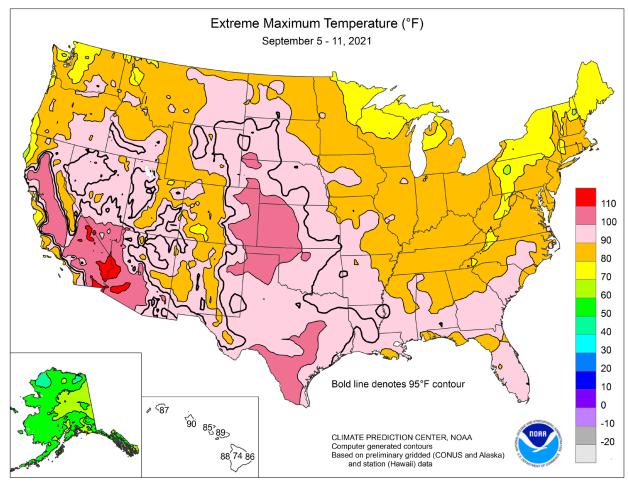
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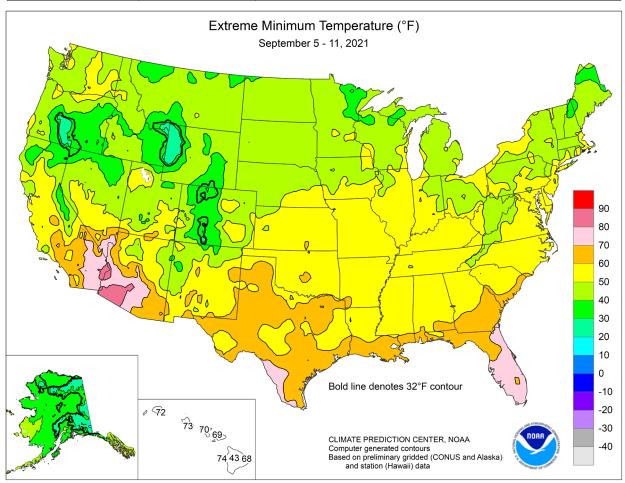










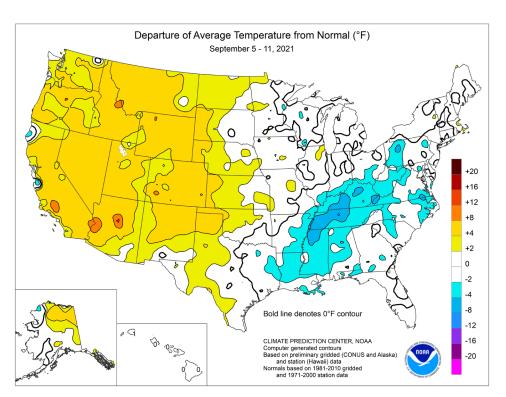


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attributed to hesitancy to sow winter wheat due to extreme dryness. Rain was observed, however, in several regions, including much of the East. Some of the heaviest rain (locally 4 inches or more) fell in northern New England, chipping away at lingering, long-term drought. Locally heavy showers also dotted the lower Southeast, including Florida's peninsula. Elsewhere, late-week rain briefly dampened some of the driest areas of the West, temporarily aiding wildfire containment efforts. September 10, the heaviest rain in months—up to an inch—fell in parts of northern California and the interior Northwest. However, hot. dry weather soon returned across the West, limiting the overall impact of the precipitation. In fact, weekly temperatures broadly averaged at least 5°F above normal across the western half of the country—and up

to 10°F above normal in parts of California, the Rockies, and the Great Basin. Meanwhile, temperatures averaged as much as 5°F below normal across portions of the interior Southeast, particularly in the Tennessee Valley.

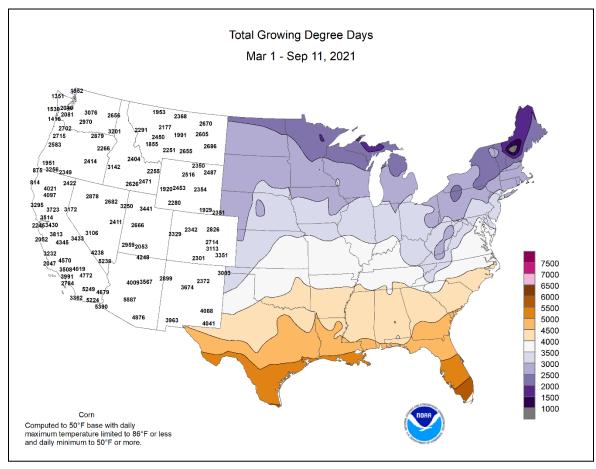
Late-summer heat gripped much of the central and western U.S., boosting temperatures to 100°F or higher as far north as California's Central Valley and the central High Plains. However, the week had begun on a cool note across parts of the Intermountain West, where Randolph, UT, posted a daily-record low of 23°F on September 5. The parade of Western high-temperature records began on September 6, with highs of 104°F in Gilroy, CA, and 96°F in Reno, NV. Reno logged another daily-record high (98°F) on September 7. Elsewhere in Nevada, Winnemucca registered daily-record highs each day (98, 99, 99, and 101°F) from September 6-9. Death Valley, CA, collected consecutive daily-record highs (122 and 120°F, respectively) on September 7-8. In New Mexico, Farmington tallied five consecutive daily-record highs (95, 96, 94, 91, and 91°F) from September 7-11. With a high of 106°F on the 10th, Borger, TX, edged the monthly record of 105°F, originally set on September 5, 1995. A monthly record of 89°F was tied on September 10 in Alamosa, CO. Alamosa again reached 89°F on September 11, tying the record first set on September 5 and 6, 2020, while Colorado **Springs, CO**, achieved a new September standard (98°F; previously, 97°F on September 6, 2020). Across the High Plains, the week ended on September 10-11 with consecutive triple-digit, daily-record highs in communities such as McCook, NE (102 and 104°F); Goodland, KS (103 and 102°F); and Burlington, CO (101 and 100°F). Dodge City, KS (105°F on the 11th), achieved a 105-degree reading in September for only the third time on record, following 106°F on September 3, 1947, and 107°F on September 1, 2011. Heat also lingered across the Deep South, where Del Rio, TX, noted highs of 100°F or greater on each of the first 10 days in

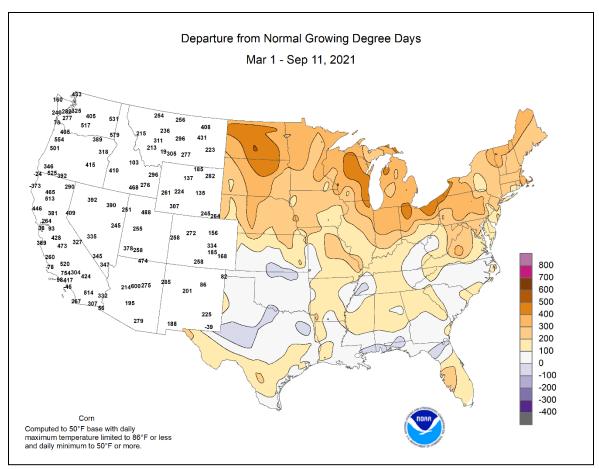


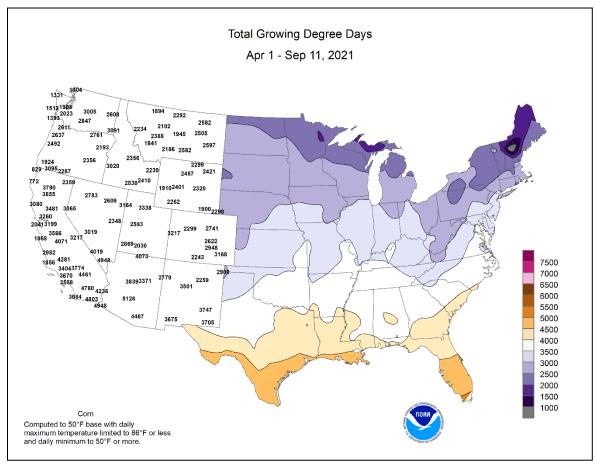
September. **Del Rio** also reported several daily-record highs, including a reading of 105°F on September 8.

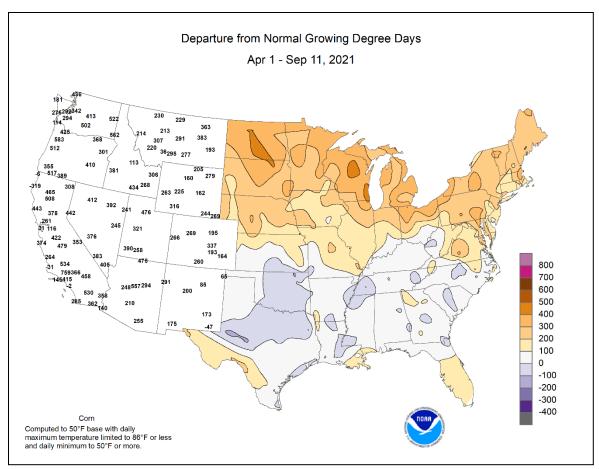
Until late in the week, scattered to widespread showers were mostly limited to the South, East, and lower Midwest. Dailyrecord totals were set in a few locations, including Houghton Lake, MI (1.62 inches on September 7), and Louisville, KY (1.10 inches). Heavier rain fell in northern New England, where **Bangor**, **ME**, measured 3.34 inches on September 9-10. Meanwhile, rainfall across the lower Southeast was enhanced by the arrival of minimal Tropical Storm Mindy, which officially made landfall on St. Vincent Island, FL, on September 8 at 8:15 pm CDT. Mindy's sustained winds were briefly near 45 mph, followed by weakening the following day as the remnant circulation moved northeastward across northern Florida and southeastern Georgia. On September 8, Tallahassee, FL, received 2.80 inches of rain and clocked a peak gust to 40 mph. Elsewhere in Florida on the 8th, **Apalachicola** noted 2.10 inches of rain and had a gust to 42 mph. Toward week's end, beneficial rain overspread northern California and the Northwest. With 0.37 inch on September 10, Redding, CA, experienced its wettest day since April 25, when 0.39 inch fell. Record-setting rainfall totals for September 10 included 0.63 inch in Ephrata, WA; 0.61 inch in Redmond, OR; and 0.26 inch in Red Bluff, CA.

Mild, occasionally showery weather prevailed in Alaska. The warmest weather, relative to normal, covered northeastern Alaska, where weekly temperatures averaged as much as 5°F above normal. With a high of 57°F (on September 8), St. Paul Island was among the Alaskan communities reporting a daily-record high. Farther south, mostly tranquil weather covered Hawaii, except for some windward locations. Through September 11, month-to-date rainfall at the state's major airport observation sites ranged from a trace in Honolulu, Oahu, to 1.52 inches (46 percent of normal) in Hilo, on the Big Island.









National Weather Data for Selected Cities

Weather Data for the Week Ending September 11, 2021

Data Provided by Climate Prediction Center

_		Data Provided by Climate Prediction Center RELATIVE NUMBER OF DAYS																		
] 7	EMF	PERA	TUR	E '	F			PRE	CIPITA	ATION	ı			IDITY				
	STATES					_									PER	CENT	ı⊨W	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 SEP 1	PCT. NORMAL SINCE SEP 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
AK	ANCHORAGE BARROW	60 45	49 35	62 52	42 33	54 40	3 5	0.29 0.07	-0.41 -0.13	0.14 0.03	0.79 0.18	70 56	10.21 3.66	97 102	89 92	64 74	0	0	5 3	0
	FAIRBANKS	62	43	68	40	53	4	0.03	-0.27	0.03	0.12	24	10.64	130	88	47	0	0	1	0
	JUNEAU KODIAK	57 59	51 47	59 63	46 39	54 53	2 2	2.89 0.04	0.99 -1.50	0.80 0.04	4.81 2.66	165 116	50.23 47.04	139 95	93 91	80 64	0	0	7 1	3
	NOME	50	44	54	39	47	1	0.04	0.29	0.04	0.94	93	16.25	140	93	75	0	0	5	0
AL	BIRMINGHAM	85	61	89	22	73	-4	0.09	-0.83	0.08	0.09	6	52.64	136	87	52	0	1	2	0
	HUNTSVILLE	85	61	88	54	73	-4	0.30	-0.55	0.28	0.67	52	47.84	127	96	50	0	0	2	0
	MOBILE MONTGOMERY	87 88	68 67	89 91	61 58	78 78	-2 -1	1.19 0.72	-0.02 -0.26	0.77 0.71	1.51 0.92	78 59	64.82 37.61	132 98	98 94	52 52	0	0	4 2	1
AR	FORT SMITH	92	65	96	59	79	2	1.82	0.93	1.68	1.82	132	33.56	109	90	33	6	0	2	1
	LITTLE ROCK	89	63	92	60	76	-2	0.01	-0.71	0.01	0.01	1	30.87	94	85	34	5	0	1	0
AZ	FLAGSTAFF PHOENIX	82 107	48 84	85 111	43 82	65 96	5 5	0.19 0.00	-0.41 -0.17	0.19 0.00	0.78 0.44	81 160	18.41 4.65	121 81	85 46	22 18	0 7	0	1 0	0
	PRESCOTT	91	60	94	59	76	6	0.00	-0.17	0.00	0.44	54	8.86	85	70	20	6	0	0	0
	TUCSON	101	74	103	70	87	4	0.33	-0.01	0.33	0.34	60	11.32	130	68	21	7	0	1	0
CA	BAKERSFIELD	101	76	107	70	88	10	0.00	-0.01	0.00	0.00	0	1.97	43	39	17	7	0	0	0
I	EUREKA FRESNO	61 102	48 72	65 106	46 66	55 87	-3 9	0.00	-0.11 -0.02	0.00	0.00	0	13.79 5.11	57 63	98 51	86 15	0 7	0	0	0
	LOS ANGELES	79	65	84	62	72	2	0.00	-0.02	0.00	0.00	0	3.33	37	90	55	0	0	0	0
	REDDING	100	64	107 104	56	82 80	6 7	0.38	0.24	0.38	0.38	186	9.57	45	57	14	6	0	1 2	0
	SACRAMENTO SAN DIEGO	98 81	62 70	84	57 68	76	4	0.05 0.00	-0.01 -0.02	0.04	0.05 0.00	61 0	4.54 3.74	37 52	77 84	16 58	6	0	0	0
	SAN FRANCISCO	73	57	78	53	65	0	0.00	-0.02	0.00	0.00	0	5.43	41	90	53	0	0	0	0
	STOCKTON	96	62	101	56	79	5	0.01	-0.04	0.01	0.01	20	5.93	64	68	16	6	0	1	0
СО	ALAMOSA CO SPRINGS	87 92	38 57	89 98	35 53	63 75	5 11	0.00	-0.25 -0.35	0.00	0.26 0.56	64 92	5.11 13.75	93 95	77 55	10 8	0 4	0	0	0
	DENVER INTL	92	58	99	55	75	9	0.00	-0.24	0.00	0.05	13	10.95	92	45	10	4	0	0	0
	GRAND JUNCTION	92	56	94	53	74	5	0.04	-0.22	0.04	0.80	196	4.96	77	42	11	6	0	1	0
СТ	PUEBLO BRIDGEPORT	95 79	54 62	101 84	51 55	75 70	7	0.00 0.57	-0.21 -0.23	0.00 0.51	0.87 6.50	235 522	15.82 34.74	147 115	67 88	12 54	5	0	0 2	0
Ci	HARTFORD	78	56	84	50	67	1 0	0.57	-0.23	0.51	5.43	450	43.53	138	97	56	0	0	2	0
DC	WASHINGTON	82	66	87	61	74	1	0.25	-0.54	0.24	1.59	130	35.03	127	84	47	0	0	2	0
DE FL	WILMINGTON	80 89	61 73	87 92	55 69	71	0	0.96	0.07 -0.08	0.38 0.64	2.08	153 68	27.35 32.65	91 91	93 97	53 60	0 4	0	5 6	0 2
FL	DAYTONA BEACH JACKSONVILLE	89	71	92	69	81 80	1 0	1.58 0.24	-1.73	0.04	1.80 0.24	7	37.45	97	99	57	4	0	2	0
	KEY WEST	89	80	92	77	85	1	0.47	-1.05	0.20	0.62	26	20.46	78	84	54	3	0	4	0
	MIAMI	92	76	95	76	84	1	1.08	-1.13	0.51	3.82	108	38.30	87	95	57	7	0	3	1
	ORLANDO PENSACOLA	92 88	75 72	94 90	75 65	83 80	2	2.40 0.90	0.94 -0.47	1.75 0.82	3.60 1.60	155 73	33.42 62.02	86 131	93 94	53 57	6	0	5 2	1
	TALLAHASSEE	88	70	91	67	79	-1	3.79	2.61	3.13	4.61	241	37.46	81	97	56	3	0	3	1
	TAMPA	89	78	92	76	84	1	0.39	-1.29	0.21	4.09	151	40.01	109	86	61	3	0	3	0
GA	WEST PALM BEACH ATHENS	91 88	75 64	94 89	73 58	83 76	1 0	0.36 0.04	-1.56 -0.78	0.30 0.01	1.91 0.04	62 2	29.17 35.65	66 109	94 91	56 47	7	0	4 3	0
0, 1	ATLANTA	84	66	86	61	75	-1	0.17	-0.87	0.17	0.17	10	39.15	110	86	51	0	0	1	0
	AUGUSTA	89	64	93	58	77	0	1.79	1.04	1.71	1.80	151	42.32	132	95	45	4	0	3	1
	COLUMBUS MACON	88 89	68 64	92 93	61 58	78 77	-1 -1	0.26 0.01	-0.48 -0.87	0.16 0.01	0.40 0.01	33 0	37.31 34.04	110 101	87 96	46 48	2	0	2	0
	SAVANNAH	88	69	92	63	79	0	1.02	-0.17	0.51	1.02	53	33.67	93	99	50	3	0	3	1
HI	HILO	84	69	86	68	77	0	1.25	-0.97	0.80	1.47	42	89.38	107	89	57	0	0	7	1
I	HONOLULU KAHULUI	89 88	74 72	90 89	73 69	82 80	0	0.00	-0.14 -0.10	0.00	0.00 0.02	0 13	9.60 14.57	104 133	75 79	43 50	1	0	0	0
I	LIHUE	86	75	87	72	80	1	0.22	-0.18	0.10	0.34	52	23.43	106	85	60	0	0	4	0
IA	BURLINGTON	84	58	88	53	71	1	0.00	-0.86	0.00	0.33	23	29.91	104	94	45	0	0	0	0
	CEDAR RAPIDS DES MOINES	82 85	52 60	87 91	48 52	67 72	1	0.00 0.04	-0.80 -0.73	0.00 0.04	1.27 0.33	101 27	13.64 18.30	51 65	96 87	41 38	0	0	0	0
I	DUBUQUE	79	53	85	51	66	1	0.00	-0.73	0.00	0.32	24	21.48	78	95	48	0	0	0	0
I	SIOUX CITY	83	54	91	45	69	2	0.00	-0.71	0.00	1.03	91	17.22	79	93	46	1	0	0	0
ID	WATERLOO BOISE	82 89	53 58	88 98	49 53	67 74	1 6	0.00 0.09	-0.65 -0.03	0.00	0.52 0.09	50 51	17.19 7.23	62 92	90 55	40 16	0 5	0	0 1	0
, J	LEWISTON	87	61	92	57	74	6	0.09	-0.03	0.09	0.09	14	3.48	39	56	23	3	0	2	0
	POCATELLO	90	47	95	39	68	6	0.07	-0.13	0.04	0.07	23	6.46	76	67	13	4	0	2	0
IL	CHICAGO/O_HARE	82	61 57	88	58 52	72 70	4	0.00	-0.77 0.75	0.00	0.01	1 7	19.00	72 04	82	39	0	0	0	0
	MOLINE PEORIA	84 84	57 60	88 89	52 55	70 72	2 2	0.00	-0.75 -0.78	0.00	0.09	7 2	26.74 30.72	94 118	91 88	43 43	0	0	0	0
I	ROCKFORD	84	54	89	51	69	2	0.13	-0.67	0.13	0.17	13	15.37	57	86	36	0	0	1	0
I	SPRINGFIELD	82	57	87	51	70	0	0.00	-0.69	0.00	2.36	220	35.28	132	92	45	0	0	0	0
IN	EVANSVILLE FORT WAYNE	83 80	59 55	87 86	55 48	71 68	-1 0	1.52 0.13	0.81 -0.53	0.89 0.12	2.58 0.46	236 44	33.63 27.56	105 99	95 96	38 43	0	0	3 2	2
	INDIANAPOLIS	82	59	86	56	71	0	0.01	-0.71	0.01	0.93	83	31.67	104	88	39	0	0	1	0
	SOUTH BEND	82	57	91	51	70	3	0.04	-0.77	0.04	0.06	4	28.31	107	87	36	1	0	1	0
KS	CONCORDIA DODGE CITY	89 94	61 59	95 105	57 53	75 77	4	0.00	-0.67 -0.44	0.00	0.79 0.98	74 134	19.18 14.32	86 83	84 84	37 27	3 5	0	0	0
	GOODLAND	96	55	103	49	76	8	0.00	-0.44	0.00	0.98	38	11.86	74	81	13	6	0	0	0
	TOPEKA	88	60	92	57	74	3	0.00	-0.86	0.00	2.56	190	29.61	105	87	40	2	0	0	0

Based on 1981-2010 normals *** Not Available

Weekly Weather and Crop Bulletin
Weather Data for the Week Ending September 11, 2021

		TEMPERATURE °F				PRECIPITATION					RELATIVE		NUMBER OF DAYS		AYS					
	STATES		EMF	PERA	TUR	Έ `	F			PRE	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 SEP 1	PCT. NORMAL SINCE SEP 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
KY	WICHITA LEXINGTON	90 78	63 55	97 82	60 52	77 67	2 -5	0.00 0.77	-0.74 0.08	0.00 0.46	2.13 0.93	180 87	23.78 41.21	94 126	82 95	38 54	4 0	0	0 2	0
	LOUISVILLE	84	62	87	59	73	-1	1.19	0.50	1.09	1.19	112	34.58	107	88	39	0	0	2	1
LA	PADUCAH BATON ROUGE	85 88	57 68	87 93	52 61	71 78	-2 -4	0.55 0.03	-0.29 -1.59	0.55 0.03	0.58 0.03	46 1	35.67 63.04	105 143	89 98	36 53	0 1	0	1	1
	LAKE CHARLES	90	70	94	63	80	-1	0.65	-0.73	0.41	0.78	36	56.61	140	96	43	4	0	2	0
	NEW ORLEANS	89 93	74	92 97	68	81	0	0.09	-1.22	0.07 0.08	0.09	4 7	67.31	145	93	49	2 7	0	2	0
MA	SHREVEPORT BOSTON	80	64 64	97 85	59 59	79 72	-1 5	0.08 1.20	-0.64 0.47	1.13	0.08 5.44	481	37.12 39.20	105 132	84 86	30 49	0	0	1	0
	WORCESTER	73	56	79	50	65	1	1.49	0.69	1.44	5.92	472	43.19	132	93	59	0	0	2	1
MD	BALTIMORE	83 70	61 50	90	54	72 60	1	0.54	-0.31 2.43	0.35	4.66	351 289	31.57	108	90 91	46	1	0	4	0
ME	CARIBOU PORTLAND	74	54	78 78	39 48	64	2 1	3.16 1.40	0.65	1.61 0.88	3.31 3.18	273	24.61 28.62	95 92	99	58 64	0	0	4	1
MI	ALPENA	73	50	83	44	62	1	0.98	0.29	0.39	1.03	94	19.09	96	97	53	0	0	3	0
	GRAND RAPIDS	79	54	86	50	67	1	0.35	-0.63	0.29	0.39	25	23.36	89	95 94	43	0	0	2	0
	HOUGHTON LAKE LANSING	71 79	50 55	78 87	44 50	61 67	1 2	1.74 0.19	1.03 -0.59	1.61 0.19	1.74 0.22	156 18	20.70 22.45	103 101	94	50 41	0	0	3 1	1
	MUSKEGON	76	55	81	51	66	1	0.30	-0.59	0.26	0.35	25	21.74	99	93	52	0	0	2	0
NAN!	TRAVERSE CITY DULUTH	75 72	55 50	83 77	51 42	65 61	2	1.13 0.32	0.31 -0.67	0.95 0.18	1.23 0.35	96 22	21.57 15.60	96 70	92 95	51 48	0	0	3	1
MN	INT_L FALLS	70	47	78	39	58	1	0.32	-0.67	0.18	0.55	46	10.75	70 59	95	56	0	0	4	0
	MINNEAPOLIS	78	58	82	55	69	3	0.00	-0.75	0.00	0.96	81	20.54	87	83	40	0	0	0	0
	ROCHESTER ST. CLOUD	77 77	52 50	83 82	49 45	65 64	0 2	0.02 0.03	-0.83 -0.83	0.02 0.03	1.06 0.50	79 35	21.78 16.66	85 79	93 95	47 38	0	0	1	0
МО	COLUMBIA	87	61	92	55	74	3	0.00	-0.90	0.00	0.62	43	38.39	123	90	36	3	0	0	0
	KANSAS CITY	84	61	89	54	73	1	0.00	-1.11	0.00	1.67	97	33.14	113	84	46	0	0	0	0
	SAINT LOUIS SPRINGFIELD	86 87	65 60	92 92	59 54	76 74	2 1	0.00	-0.71 -1.07	0.00	0.89 0.57	79 34	32.61 36.25	113 114	76 87	36 34	1	0	0	0
MS	JACKSON	88	65	93	56	76	-2	0.00	-0.49	0.00	0.57	52	41.35	107	94	43	3	0	1	0
	MERIDIAN	85	64	90	55	74	-3	0.16	-0.65	0.16	0.83	66	54.93	136	99	53	1	0	1	0
мт	TUPELO BILLINGS	87 87	64 56	92 91	59 51	75 72	-1 8	0.87	0.13 -0.30	0.87 0.00	0.87 0.01	78 2	58.72 7.28	156 69	91 51	41 16	2	0	1 0	1
IVII	BUTTE	82	40	89	36	61	6	0.07	-0.18	0.07	0.07	17	4.99	48	91	24	0	0	1	0
	CUT BANK	79	48	86	40	64	7	0.12	-0.20	0.12	0.12	24	4.76	51	66	24	0	0	1	0
	GLASGOW GREAT FALLS	84 83	53 49	92 87	49 45	68 66	7 7	0.01 0.01	-0.22 -0.34	0.01 0.01	0.01 0.01	3 2	4.66 9.70	48 81	66 65	24 21	2	0	1	0
	HAVRE	84	49	92	39	66	7	0.04	-0.23	0.04	0.04	9	5.76	62	68	22	2	0	1	0
	MISSOULA	84	47	90	44	65	5	0.00	-0.30	0.00	0.00	0	7.34	69	76	22	1	0	0	0
NC	ASHEVILLE CHARLOTTE	79 85	59 62	82 89	51 56	69 74	0 1	0.16 0.08	-0.78 -0.67	0.16 0.07	0.43 1.85	28 154	44.89 30.00	135 101	97 91	49 43	0	0	1	0
	GREENSBORO	82	61	86	57	71	-1	0.51	-0.56	0.51	1.51	90	32.12	106	89	45	0	0	1	1
	HATTERAS	84	70	87	63	77	1	0.34	-1.22	0.33	0.72	29	44.56	112	90	59	0	0	2	0
	RALEIGH WILMINGTON	85 86	63 67	93 92	56 60	74 76	-1 0	1.60 0.76	0.48 -1.15	1.60 0.46	1.81 1.22	103 40	32.71 46.35	104 110	96 95	47 52	2	0	1 4	1
ND	BISMARCK	84	50	95	48	67	5	0.00	-0.39	0.00	0.52	80	7.14	49	85	27	2	0	0	0
	DICKINSON FARGO	84 79	49 52	92 87	43 45	66 65	6 3	0.00	-0.35 -0.67	0.00	0.11 2.09	20 197	9.65 11.79	74 69	75 86	22 34	2	0	0	0
	GRAND FORKS	78	50	89	44	64	4	0.00	-0.50	0.00	0.74	89	12.56	78	87	34	0	0	1	0
	JAMESTOWN	80	48	89	44	64	3	0.00	-0.54	0.00	0.78	93	7.83	52	88	32	0	0	0	0
NE	GRAND ISLAND LINCOLN	87 88	57 57	99 95	50 52	72 72	3	0.12 0.00	-0.40 -0.74	0.12 0.00	0.31 0.25	36 20	22.84 20.83	105 91	90 90	38 39	2	0	1 0	0
	NORFOLK	86	56	94	46	71	4	0.00	-0.62	0.00	0.15	15	20.67	96	88	39	2	0	0	0
	NORTH PLATTE	89	52	99	47	71	5	0.01	-0.33	0.01	0.86	159	19.62	116	91	35	3	0	1	0
	OMAHA SCOTTSBLUFF	86 94	61 50	91 100	52 47	73 72	5 6	0.00 0.02	-0.68 -0.27	0.00 0.02	0.82 0.20	76 45	25.40 7.59	105 59	92 78	40 14	2 5	0	0 1	0
	VALENTINE	88	52	96	46	70	4	0.02	-0.37	0.02	2.33	400	17.87	107	86	28	2	0	1	0
NH	CONCORD	76 70	52	84	44	64	1	1.36	0.65	0.89	3.13	280	31.58	115	98	55 55	0	0	4	1
NJ	ATLANTIC_CITY NEWARK	79 82	64 64	83 87	52 57	71 73	1 2	1.61 0.15	0.97 -0.66	1.61 0.15	2.26 8.59	217 688	37.39 44.92	128 137	86 81	55 45	0	0	1	1
NM	ALBUQUERQUE	92	66	94	64	79	7	0.00	-0.26	0.00	0.48	116	4.35	64	53	15	6	0	0	0
NV	ELY LAS VEGAS	89 104	46 82	93 108	41 77	67 93	8 7	0.09 0.12	-0.08 0.04	0.08 0.12	0.11 0.12	40 90	4.73 1.26	66 40	57 28	11 12	4 7	0	2	0
	RENO	92	59	97	52	93 75	8	0.12	0.04	0.12	0.12	90 95	1.26	40 37	53	14	5	0	2	0
	WINNEMUCCA	95	47	100	41	71	8	0.02	-0.07	0.02	0.02	14	4.85	85	51	12	5	0	1	0
NY	ALBANY BINGHAMTON	76 0	54 0	92 0	48 0	65 0	0	0.51 0.00	-0.20 -0.35	0.39 0.00	2.02 0.66	182 81	29.05 35.22	107 131	100 55	51 55	1	0	2	0
	BUFFALO	76	59	81	55	0 68	3	1.11	0.35	0.00	1.11	87	21.39	81	90	48	0	0	5	0
	ROCHESTER	77	55	79	52	66	1	0.54	-0.22	0.34	0.54	44	20.40	86	97	43	0	0	4	0
ОП	SYRACUSE AKRON-CANTON	77 79	58 57	80 84	52 53	68 68	3 2	0.24 0.19	-0.57 -0.62	0.13 0.19	0.24 0.58	19 45	30.26 29.24	117 103	96 84	55 44	0	0 0	3	0
ОН	CINCINNATI	81	58	83	55	69	-2	0.19	-0.02	0.19	0.86	45 88	36.13	117	86	41	0	0	2	1
	CLEVELAND	78	57	85	54	68	0	0.07	-0.78	0.07	0.11	8	28.90	108	85	44	0	0	1	0
	COLUMBUS DAYTON	80 81	57 59	84 86	52 53	68 70	-1 1	0.09 0.04	-0.59 -0.74	0.06 0.04	0.65 0.37	59 29	28.76 26.79	100 90	92 78	40 37	0	0	2	0
	MANSFIELD	79	56	85	50	68	2	0.04	-0.74	0.04	0.15	11	27.76	86	85	42	0	0	1	0

Based on 1981-2010 normals

Weekly Weather and Crop Bulletin
Weather Data for the Week Ending September 11, 2021

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		7	TEMF	PERA	TUR	E °	F			PREC	CIPITA	ATION	ı		HUM	IDITY		IP. °F	PRE	
	STATES								I						PER	CENT				.0
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 SEP 1	PCT. NORMAL SINCE SEP 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
	TOLEDO YOUNGSTOWN	82 76	57 53	89 82	52 50	69 65	2 0	0.24 0.25	-0.41 -0.64	0.22 0.24	0.40 0.43	38 31	24.17 32.44	99 117	84 92	35 47	0	0	2	0
ОК	OKLAHOMA CITY	91	63	95	58	77	0	0.00	-0.98	0.00	0.35	23	23.96	90	81	29	5	0	0	0
OR	TULSA ASTORIA	93 70	67 52	95 77	60 48	80 61	4 2	0.00	-0.98 -0.33	0.00 0.04	0.04 0.08	2 12	27.83 38.32	96 98	75 98	27 58	7	0	0 2	0
OK	BURNS	86	43	94	38	65	6	0.08	0.32	0.04	0.08	263	6.07	83	65	19	4	0	1	0
	EUGENE	84	53	91	46	69	5	0.00	-0.25	0.00	0.00	0	14.40	54	85	33	2	0	0	0
	MEDFORD	90	58	94	54	74	5	0.16	0.04	0.16	0.16	88	6.52	62	72	20	3	0	1	0
	PENDLETON PORTLAND	84 83	58	90 89	54 57	71 72	5 6	0.09	-0.03	0.09 0.00	0.09	48 0	4.34	51 70	65 77	26 35	1	0	1	0
	PORTLAND SALEM	84	61 56	90	51 51	70	6	0.00	-0.30 -0.24	0.00	0.00	0	14.63 19.05	70 84	82	32	1	0	0	0
PA	ALLENTOWN	77	55	86	49	66	-1	1.76	0.82	1.54	3.02	207	31.65	101	95	53	0	0	3	1
	ERIE	76	60	85	57	68	1	1.18	0.19	0.31	1.30	85	25.69	94	85	50	0	0	6	0
	MIDDLETOWN	79	61	86	56	70	1	1.56	0.71	1.07	8.20	622	37.75	134	87	48	0	0	3	1
	PHILADELPHIA PITTSBURGH	80 75	63 56	86 80	58 51	71 65	-1 -2	0.55 0.63	-0.28 -0.13	0.29 0.31	2.89 2.89	226 240	34.73 29.09	119 104	90 96	49 55	0	0	4	0
	WILKES-BARRE	0	0	0	0	0	0	0.00	0.00	0.00	5.07	810	32.20	125	0	0	0	0	0	0
	WILLIAMSPORT	78	56	82	52	67	1	1.89	0.91	0.98	3.78	250	30.77	108	94	50	0	0	3	2
RI SC	PROVIDENCE CHARLESTON	79 87	60 68	84 92	53 63	69 78	2	0.52 1.58	-0.37 -0.02	0.50 1.28	4.40 1.60	323 63	35.86 43.33	112 113	96 97	56 53	0 2	0	3	0
SC	COLUMBIA	86	64	90	56	75	-2	0.89	0.00	0.55	0.91	64	38.64	116	95	49	1	0	4	1
	FLORENCE	88	66	93	58	77	1	0.46	-0.45	0.38	0.46	31	35.74	112	89	41	3	0	2	0
	GREENVILLE	84	62	88	56	73	-2	0.71	-0.10	0.63	1.56	119	34.74	103	88	44	0	0	2	1
SD	ABERDEEN HURON	81 82	49 52	88 90	42 46	65 67	3 2	0.00	-0.53 -0.63	0.00	1.43 1.84	173 192	12.90	75 66	88 92	36 35	0	0	0	0
	RAPID CITY	87	52	96	46 49	70	5	0.00	-0.63	0.00	0.29	62	12.15 11.83	66 89	68	35 24	2	0	0	0
	SIOUX FALLS	83	54	90	47	68	4	0.09	-0.58	0.09	0.43	40	20.09	98	89	40	1	0	1	0
TN	BRISTOL	82	57	87	52	70	0	0.39	-0.31	0.30	0.92	80	32.35	106	95	41	0	0	3	0
	CHATTANOOGA	85	63	90	58	74	-1	1.25	0.32	1.18	1.25	89	46.91	127	90	44	1	0	2	1
	KNOXVILLE MEMPHIS	83 86	61 64	87 90	55 60	72 75	-2 -3	0.11 0.01	-0.63 -0.66	0.07 0.01	0.20 0.05	17 5	35.33 38.93	101 107	97 84	48 38	0	0	2	0
	NASHVILLE	84	60	87	56	72	-2	0.05	-0.70	0.04	0.05	4	44.18	132	87	40	0	0	2	0
TX	ABILENE	96	69	98	65	83	5	0.11	-0.45	0.09	0.11	12	16.46	92	74	33	7	0	2	0
	AMARILLO AUSTIN	95 98	63 70	102 102	60 65	79 84	6 2	0.00 0.10	-0.47 -0.70	0.00 0.10	0.63 0.10	83 7	13.70 24.76	85 106	79 78	23 26	5 7	0	0	0
	BEAUMONT	90	68	94	64	79	-2	0.10	-1.05	0.10	0.10	37	46.76	112	97	48	3	0	1	0
	BROWNSVILLE	96	75	98	71	86	3	1.23	-0.18	0.62	1.23	59	18.95	112	90	46	7	0	4	1
	CORPUS CHRISTI	97	71	99	68	84	1	0.00	-1.29	0.00	0.00	0	30.03	141	94	40	7	0	0	0
	DEL RIO EL PASO	102 93	77 68	105 96	71 65	89 80	7 3	0.00	-0.56 -0.31	0.00 0.08	0.00 0.24	0 40	13.00 10.87	92 153	66 62	25 23	7 6	0	0	0
	FORT WORTH	93	70	96	66	82	1	0.08	-0.49	0.08	0.24	16	25.50	101	75	31	7	0	2	0
	GALVESTON	92	80	94	77	86	3	0.00	0.00	0.00	0.64	0	29.03	0	74	46	7	0	0	0
	HOUSTON	93	70	96	62	81	-1	1.77	0.73	1.77	3.28	202	35.66	106	86	37	7	0	1	1
	LUBBOCK MIDLAND	93 95	66 67	99 97	63 65	80 81	5 4	0.00 0.02	-0.63 -0.46	0.00 0.02	0.03 0.02	3 2	18.36 13.45	130 128	75 75	30 25	6 7	0	0	0
	SAN ANGELO	96	64	98	58	80	2	0.03	-0.62	0.02	0.03	3	18.94	125	88	31	7	0	2	0
	SAN ANTONIO	97	71	100	67	84	2	0.12	-0.65	0.12	0.12	9	22.54	101	87	28	7	0	1	0
	VICTORIA	97	69	100	61	83	2	0.00	-1.08	0.00	0.10	5	46.44	162	91	36	7	0	0	0
	WACO WICHITA FALLS	94 94	67 65	101 96	59 60	81 80	0 1	0.00	-0.71 -0.70	0.00	0.00	0 0	22.89 21.62	98 104	83 84	33 33	7 7	0	0	0
UT	SALT LAKE CITY	92	62	97	59	77	7	0.10	-0.15	0.08	0.10	26	9.35	85	51	14	6	0	2	0
VA	LYNCHBURG	84	57	87	52	71	1	0.02	-0.90	0.02	0.69	47	26.40	90	90	40	0	0	1	0
	NORFOLK RICHMOND	82 83	63 62	90 87	59 56	73 73	-2 -1	1.57 1.22	0.41 0.20	0.88 0.74	1.86 1.78	99 112	31.33 35.63	92 113	97 97	52 50	1	0	2	2
	ROANOKE	84	60	89	53	72	-1 1	0.02	-0.91	0.74	0.69	46	28.57	96	88	40	0	0	2	0
	WASH/DULLES	82	60	89	51	71	0	0.49	-0.35	0.31	2.34	179	26.42	90	94	47	0	0	4	0
VT	BURLINGTON	74	57	83	52	66	2	1.71	0.93	0.95	1.73	142	22.13	87	91	56	0	0	3	2
WA	OLYMPIA QUILLAYUTE	78 69	54 52	82 86	45 49	66 61	5 3	0.00 0.86	-0.37 0.11	0.00 0.52	0.00 1.64	0 142	28.09 45.29	99 78	93 100	45 67	0	0	0 4	0
	SEATTLE-TACOMA	76	59	80	56	67	4	0.00	-0.30	0.00	0.00	0	19.81	94	84	48	0	0	0	0
	SPOKANE	81	58	86	54	69	6	0.24	0.10	0.14	0.24	103	5.14	49	64	25	0	0	2	0
16/1	YAKIMA	84	52	91	46	68	5	0.04	-0.05	0.04	0.04	27	2.78	54	85	25	2	0	1	0
WI	EAU CLAIRE GREEN BAY	77 77	52 52	81 84	47 48	65 65	1 2	0.17 0.18	-0.73 -0.51	0.09 0.18	0.56 0.41	40 37	18.17 23.97	77 111	94 92	43 48	0	0	2	0
	LA CROSSE	82	58	89	54	70	4	0.00	-0.86	0.00	0.41	36	30.53	120	90	41	0	0	0	0
	MADISON	79	53	85	49	66	1	0.15	-0.62	0.15	0.25	20	16.60	63	94	41	0	0	1	0
140.1	MILWAUKEE	80	60	87	57	70	4	0.10	-0.61	0.09	0.11	10	11.65	46	81	41	0	0	2	0
WV	BECKLEY CHARLESTON	74 79	54 57	80 84	49 51	64 68	-1 -2	1.26 0.83	0.58 0.07	0.83 0.48	1.56 1.33	144 109	31.41 28.94	102 89	98 100	52 49	0	0	3 2	1 0
	ELKINS	73	53	80	46	63	-2	1.18	0.37	0.48	3.00	228	28.91	84	93	52	0	0	3	1
	HUNTINGTON	78	58	83	52	68	-2	0.98	0.30	0.74	1.25	114	39.24	125	97	50	0	0	2	1
WY	CASPER CHEYENNE	89 88	46 53	95 96	40 48	68 70	6 9	0.00	-0.24 -0.37	0.00	0.07 0.12	20 20	10.28 9.43	108 72	55 49	10 10	2	0	0	0
	LANDER	88	53 54	96	48	71	9	0.00	-0.37	0.00	0.12	101	10.58	114	49	13	3	0	0	0
	SHERIDAN	90	48	95	43	69	8	0.00	-0.29	0.00	0.00	0	8.82	84	67	15	4	0	0	0

Based on 1981-2010 normals

August Weather Summary

Weather

Weather summary provided by USDA/WAOB

Highlights: Much of the country experienced relatively wet weather during August, with significantly above-normal rainfall noted in large sections of the eastern U.S., as well as portions of the northern Plains and upper Midwest. However, rain across the northern Plains arrived too late for drought-stricken small grains, which were largely harvested when precipitation began to boost topsoil moisture and slowly revive rangeland and pastures. By August 29, eighty-eight percent of the U.S. spring wheat and 85 percent of the barley had been harvested, compared to respective 5-year averages of 71 and 78 percent.

Tropical systems greatly contributed to Eastern wetness, with Hurricane Ida and Tropical Storms Fred and Henri making landfall during August. Following more than a month without an Atlantic tropical cyclone, Fred was named while passing south of Puerto Rico on August 10. Six days later, after surviving treks across Hispaniola and Cuba, Tropical Storm Fred made landfall near Cape San Blas, FL, with sustained winds near 65 mph. Later, Henri took a circuitous route into the Northeast after developing near Bermuda on August 16. After briefly becoming a hurricane, Henri weakened before making landfall on August 22—with sustained winds of 60 mph—near Westerly, RI. Meanwhile, unrelated to tropical activity, catastrophic flooding unfolded on August 21 in parts of middle Tennessee.

On August 29, Hurricane Ida became the strongest storm on record—tied with Laura in 2020 and the Last Island hurricane of 1856—to strike the Louisiana coastline. In fact, with sustained winds estimated at 150 mph, category 4 Ida's landfall at Port Fourchon, Louisiana, represented the sixth-strongest hurricane, based on sustained winds, to strike a Gulf or Atlantic Coast State, behind the Labor Day hurricane of 1935; Hurricane Camille (1969); Hurricane Andrew (1992); the Okeechobee hurricane of 1928; and Hurricane Michael (2018). Hurricane Ida's impacts, which included flooding rains, damaging winds, power outages, and a coastal storm surge, were still being assessed as the month ended. Ida moved through the eastern side of Louisiana's sugarcane production area, shortly before harvest was due to begin.

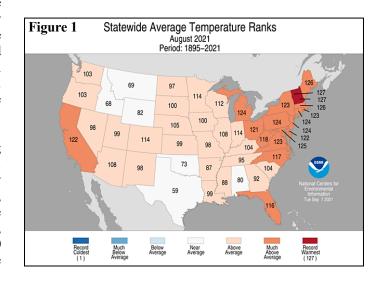
Significant August rainfall bypassed a few areas, including the Far West and portions of the central and southern Plains. Western drought, combined with periods of hot, windy weather, led to further escalation of wildfire activity, particularly in northern California. By early September, three of California's active wildfires—the Dixie (927,000 acres), Caldor (218,000 acres), and Monument Fires (199,000 acres)—were among the twenty largest blazes in state

history. Those fires and dozens of others broadly reduced Northwestern air quality for much of the month. Meanwhile on the central and southern Plains, late-season heat and a turn toward drier conditions reduced topsoil moisture and locally increased stress on immature summer crops.

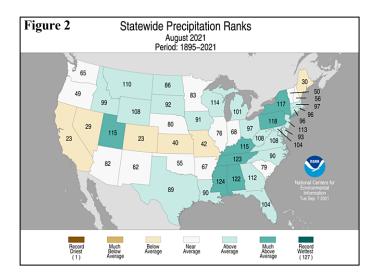
Elsewhere, late-summer showers associated with the Southwestern monsoon circulation continued to provide drought relief in the Four Corners States, while warm weather and ample rainfall helped to push Midwestern summer crops toward maturity. By August 29, more than half (59 percent) of the U.S. corn had dented, versus the 5-year average of 55 percent. On the same date, 9 percent of the nation's corn was fully mature, while 9 percent of the soybeans were dropping leaves. August average temperatures were mostly close to normal values, although a ribbon of anomalous warmth stretched from the central Plains into the Northeast.

During the 4-week period ending August 31, drought coverage in the contiguous U.S. remained nearly unchanged at 46 to 47 percent, according to the *U.S. Drought Monitor*. However, August improvement in the Southwest and upper Midwest was offset by worsening drought in the Northwest and pockets of developing drought on the central Plains. Despite drought being mostly restricted to the northwestern half of the country, overall coverage has been elevated for months—and was last below 40 percent in late-September 2020.

Historical Perspective: According to preliminary data provided by the National Centers for Environmental Information, the contiguous U.S. experienced its 14th-hottest, 14th-wettest August during the 1895-2021 period of record. The nation's monthly average temperature of 74.0°F was 1.9°F above the 1901-2000 mean, while precipitation averaged 3.09 inches—118 percent of normal.



State temperature rankings ranged from the 59th-coolest August in Texas to the hottest on record in Vermont and New Hampshire (figure 1). Top-ten rankings for August warmth were also observed in California and all states along and northeast of a line from Michigan to Virginia. Meanwhile, precipitation rankings ranged from the 23rd-driest August in California and Colorado to top-ten wetness in Alabama, Mississippi, Pennsylvania, and Tennessee (figure 2).



Summary: With dozens of summer wildfires burning from northern California and the Pacific Northwest to the northern Rockies, air-quality degradation and reductions in visibility were common through August. In Montana, records were set for the number of June-August hours with visibility below 10 miles in locations such as Cut Bank (735 hours; previously, 480 hours in 2018) and Great Falls (388 hours; previously, 271 hours in Many of August's noteworthy wildfires scorched thousands of acres of timber, brush, and grass across northern California. The Dixie Fire, initially sparked on July 13, burned a vast area near Lake Almanor and made several impressive runs while threatening to become the largest wildfire in California history. That blaze also destroyed more than 1,300 structures. The Caldor Fire, which was ignited on August 14 just south of Grizzly Flats, CA, crept perilously close to the community of South Lake Tahoe. Still, the Caldor Fire, which burned through nearly one-quarter million acres of vegetation by early September, destroyed more than 1,000 structures—only the seventeenth wildfire in state history to do so.

Impressive heat briefly returned across the Desert Southwest in early August, during a break in the monsoon. On August 2, Anaheim, CA, notched a daily-record high of 100°F. Consecutive daily-record highs occurred on August 3-4 in California locations such as Palm Springs (119 and 122°F) and Imperial (117 and 119°F). Palm Springs reached or exceeded the 120-degree mark for the fifth time this year—other occurrences were July 10 and June 15, 17, and 27—tying the annual record set in 2020. Thermal, CA, achieved a high of 122°F on the 4th, breaking by 1°F a monthly record originally set on August 5, 1997. Heat extended into the Great Basin, where Tonopah, NV, registered consecutive daily-record highs of 100°F on August 4-5. In Arizona, record-setting highs for August 4 soared to 117°F in Yuma and 107°F in Kingman. In contrast, unusually cool air settled across the Plains and Midwest. Daily-record lows for August 2 included 50°F in Sioux City, IA, and 54°F in Dodge City, KS. Childress, TX,

posted consecutive daily-record lows (62 and 61°F, respectively) on August 3-4. Elsewhere in Texas, daily-record lows dipped to 59°F (on August 3) in Abilene; 58°F (on August 4) in Midland; and 54°F (on August 5) in Dalhart.

Heavy rain drenched portions of the Atlantic Coast States in early August. For example, Wilmington, NC, received 6.36 inches of rain during the first 7 days of the month, aided by a daily-record sum of 2.97 inches on August 3. Elsewhere in North Carolina, August 1-7 rainfall totaled 8.46 inches on Cape Hatteras, 7.92 inches in New Bern, 6.62 inches in Beaufort, and 5.99 inches in Elizabeth City. More than two-thirds of the rain on Cape Hatteras—5.73 inches—fell on August 4, representing the wettest day in that location since May 30, 2016, when 7.09 inches fell. Farther west, a 20-day (July 16 – August 4) spell without measurable rain in Cedar Rapids, IA, ended with a 0.28inch total on August 5. Sioux City, IA, also experienced a 20day (July 15 - August 3) streak without measurable rain, followed by 0.76 inch from August 4-7. Eventually, more widespread rain returned across the Midwest. On August 7, daily-record totals in Wisconsin included 3.81 inches in Eau Claire, 2.77 inches in Marshfield, and 2.25 inches in Wisconsin Rapids, while La Crosse (5.59 inches) observed its highest calendar-day total on record. Previously, the wettest day on record in La Crosse had been September 6, 1884, when 5.55 inches fell. Upper Midwestern downpours continued into August 8, when more than three inches fell in Green Bay, WI (3.42 inches), and Sisseton, SD (3.26 inches). La Crosse received 7.36 inches on August 7-8, marking its wettest-ever 2day period (previously, 7.27 inches on October 27-28, 1900). By August 9 in Illinois, daily-record totals included 2.52 inches in Rockford and 2.18 inches in Springfield. On August 10-11, strong thunderstorms in the Great Lakes region produced wind gusts to 60 mph in Rockford, IL, and 62 mph in the Michigan cities of Detroit and Grand Rapids. Meanwhile, a few showers dotted the Northwest, where Ephrata, WA (0.71 inch on August 8), noted its wettest day since May 18, 2020, when 1.11 inches fell. The same cold front responsible for the Northwestern showers also produced high winds; in Wyoming, gusts on August 8 were clocked to 69 mph in Buffalo and 58 mph in Greybull. Farther south, the latest surge of monsoon-related moisture contributed to a daily-record rainfall total of 1.38 inches (on August 10) in Flagstaff, AZ. Cloudiness and showers briefly overspread southern California, where record-setting totals for August 11 reached 0.23 inch in San Diego and 0.16 inch in Thermal.

Heat across the central and southern Plains slowly subsided, but other regions, including the East and Northwest, remained hot. On August 9, before the Plains' heat broke, daily-record highs in Texas soared to 105°F in Borger and 104°F in Amarillo and Dalhart. On the same date, record-setting highs in Colorado reached 98°F in Denver and 96°F in Colorado Springs. With heat shifting into the East, Virginia's Dulles Airport tallied a trio of daily-record highs (99, 100, and 99°F) from August 11-13. Raleigh-Durham, NC (100°F on August 13), also noted a tripledigit, daily-record high. Meanwhile in Washington, Bellingham (100°F on August 12) reported a triple-digit high for the first time on record. Bellingham had attained 99°F on June 28, 2021; prior to that, the station record had been 96°F on July 29, 2009. From August 12-15, four consecutive daily-record highs (101, 100, 98, and 101°F) were set in Burns, OR. Elsewhere in Oregon, Portland recorded 2 days of triple-digit heat (102 and 103°F, respectively, on August 11-12), to go along with 3 such days in June. Portland's five days of triple-digit heat this year tied the annual record previously set in 1941 and 1977. Salem, OR, and Spokane, WA, set records for number of 90-degree readings in a year—38 and 42 days, respectively, through

August. Previous annual records, both set in 1958, had been 34 and 39 days. In Montana, Helena noted 10 days of 90-degree heat during August—all during the first 16 days of the month—boosting the year-to-date sum to 49 days. Previously, Helena's annual record of days with 90-degree readings was set in 2001, with 47 such days.

Tropical Storms Fred and Henri made U.S. landfalls on August 16 and 22, respectively. Fred crossed the Gulf Coast near Cape San Blas, FL, with sustained winds near 65 mph. Six days later, Henri—packing winds near 60 mph—passed over Block Island, RI, before reaching the mainland near Westerly, RI. storms sparked heavy rain and local flooding, with Fred delivering more than 8 inches of rain in parts of the southern Around the same time, an upper-level disturbance moving into the East enhanced rainfall in several areas. In Tennessee, for example, heavy rain (locally a foot or more) erupted across a small area on August 21, leading to catastrophic flooding in parts of Dickson, Hickman, Humphreys, and Houston Counties. In advance of Tropical Storm Fred's arrival, heavy showers dotted the East. Record-setting rainfall totals for August 15 reached 4.08 inches in Charleston, SC; 2.79 inches in Roanoke, VA; and 2.29 inches in Chattanooga, TN. Heavy rain also fell on August 15 in parts of Texas, leading to daily-record amounts in San Angelo (1.77 inches) and Waco (1.60 inches). Waco received another deluge on August 18, when 4.76 inches fell. Prior to that event, Waco's wettest August day had been August 24, 1958, with 4.10 inches. On August 16, the day of Fred's arrival on the Gulf Coast, Apalachicola, FL, collected a daily-record sum of 3.71 inches. Farther inland, the French Broad River in Rosman, NC, crested on August 17 at 5.18 feet above flood stage, the second-highest level on record in that location behind the October 1964 highwater mark. Following Fred's departure, occasionally heavy showers persisted across the southern and eastern U.S. Dailyrecord amounts topped the two-inch mark in Del Rio, TX (2.17 inches on August 17); Mount Pocono, PA (2.74 inches on August 18); and Zanesville, OH (2.99 inches on August 18). Meanwhile, the latest surge of monsoonal moisture spread northward from Arizona. On August 16, Phoenix, AZ, clocked a thunderstorm wind gust to 69 mph, along with blowing dust. During a 48-hour period from August 17-19, rainfall in Utah totaled 3.51 inches at Bryce Canyon Airport and 2.85 inches at Deer Creek Dam. In Montana, Great Falls received rainfall totaling 1.62 inches on August 17-18. In Idaho, August 18-19 rainfall reached 1.26 inches in Pocatello and 1.24 inches in Idaho Falls. Elsewhere, heavy showers continued to pepper areas from the Ohio and Tennessee Valleys into the East. Frankfort, KY, collected a record-setting sum (3.97 inches) for August 19. Before dawn on August 21, severe flooding developed in parts of middle Tennessee, resulting in more than 20 fatalities. Unofficial 24-hour rainfall totals of 10 to 18 inches were reported in several Tennessee communities, including McEwen (Humphreys County), Dickson (Dickson County), and Centerville (Hickman County). Piney River near Vernon, TN, crested at a record-shattering 17.8 feet above flood stage on August 21, with the water level rising more than 28 feet in just a few hours. In advance of Tropical Storm Henri's arrival, heavy rain overspread the northern Atlantic Coast. On August 21, New York's Central Park netted 4.45 inches, marking the city's wettest day since April 30, 2014. From August 21-23, Central Park received rainfall totaling 8.19 inches. On August 22, the day of Henri's landfall, daily-record rainfall totals ranged from 2 to 5 inches in locations such as Mount Pocono, PA (4.53 inches); Hartford, CT (2.82 inches); Newark, NJ (2.51 inches); and Binghamton, NY (2.18 inches). Farther south, heavy showers lingered in the southern Atlantic States, where Columbia, SC, netted 5.13 inches on August 22. It was

Columbia's wettest August day on record, surpassing the 5.03-inch total of August 18, 1965. Heavy rain associated with the remnants of Henri lingered into August 23 across Maine, where daily-record amounts reached 1.15 inches in Millinocket and 0.95 inch in Houlton.

Although hot weather persisted across many parts of the country into September, the year's last spell of ferocious heat peaked in mid-August. In California on August 15, temperatures rose to daily-record levels in locations such as Redding (116°F), Red Bluff (112°F), Ukiah (109°F), and Montague (105°F). For Redding, it was the hottest day since July 2, 2013, when it was also 116°F. In addition, it was Redding's hottest August day since August 8, 1981. Meanwhile in the Great Basin, Winnemucca, NV, registered four consecutive daily-record highs (103, 103, 103, and 104°F) from August 13-16. Farther east, Billings, MT (100°F on August 16), recorded its tenth triple-digit reading of the year, tying 1988 for its second-highest annual total. Only 1936, with 15 days of 100-degree heat in Billings, had more. On August 15-16, consecutive triple-digit, daily-record highs (103 and 104°F, respectively) occurred in Minot, ND. Elsewhere in North Dakota on August 16, dailyrecord highs topped the 100-degree mark in Dickinson (103°F) and Bismarck (102°F). In fact, Bismarck reported 4 consecutive days of triple-digit heat from August 15-18, boosting its 2021 total to a record-high 15 days. Bismarck's previous annual standard of 14 days had been set in 1936. Farther east, International Falls, MN, recorded a high of 90°F or greater each day from August 15-20, boosting its year-to-date total to 17 days. International Falls' only year with a greater number of 90-degree readings was 1921, with 18 such days. Later, sharply cooler air overspread the northern Plains and parts of the West. Great Falls, MT, reported a high of 48°F on August 18, just 3 days after attaining 98°F. By August 20, daily-record lows in Utah dipped to 39°F in Monticello and 45°F in Cedar City.

On August 29, Hurricane Ida became the third tropical cyclone to make a U.S. landfall in less than 2 weeks and the sixth of the season, following Tropical Storms Claudette, Danny, Elsa, Fred, and Henri. Ida cut a destructive swath from the central Gulf Coast region into the Northeast, spending parts of 5 days (August 29 – September 2) inland. Initially, primary hurricane impacts included high winds and a coastal storm surge, which resulted in extensive damage and power outages across Once inland, the focus turned to southeastern Louisiana. freshwater flooding and heavy rain, which totaled 4 to 8 inches or more in portions of the central Gulf Coast States. Despite significant weakening (to a tropical depression after spending a little more than 24 hours inland), Ida spawned more than a dozen tornadoes and sparked catastrophic mid-Atlantic flooding on September 1-2, as the remnant circulation merged with a cold front. As Ida roared ashore near Port Fourchon, a ship in port recorded a gust to 172 mph. Several other coastal Louisiana wind gusts exceeded 120 mph, including a report of 122 mph at a University of Florida meso-network tower installed near Galliano, LA. Farther inland, wind gusts were clocked to 90 mph in New Orleans, LA, and 68 mph in Gulfport, MS. On Lake Borgne, LA, at Chef Menteur Pass, the peak water level on August 29 rose to within 2.37 feet of the record set during Hurricane Betsy on September 10, 1965. Farther north, the Biloxi River near Lyman, MS, crested 5.24 feet above flood stage on August 31, marking the highest level in that location since April 28, 2016. Water pushing inland from the Gulf of Mexico led to the sixth-highest crest on record along the Mississippi River at Venice, LA. Ida's August 29 crest in Venice was 2.75 feet lower than the record associated with Hurricane Camille on August 17, 1969—and was also lower than water levels observed with Georges (1998), Betsy (1965),

Ida (2009), and Gustav (2008). In Mobile, AL, the last 3 days of August featured 9.37 inches of rain. Record-setting rainfall totals for August 31 included 2.21 inches in Frankfort, KY, and 2.18 inches in Chattanooga, TN. Separately, a cold front crossing the Midwest contributed to a daily-record sum (2.56 inches on August 31) in Moline, IL.

Meanwhile, late-August rain also fell across portions of the Plains, Southwest, and Midwest, due to the interaction between the monsoon circulation and Northern cold fronts. On the 24th. Waterloo, IA, received 1.80 inches of rain and clocked a thunderstorm wind gust to 61 mph. Two days later in South Dakota, gusts reached 75 mph in Watertown and 72 mph in Huron. On August 28, a gust to 75 mph was recorded in Spencer, IA. Record-setting rainfall totals in South Dakota included 3.35 inches (on August 28) in Sioux Falls and 1.88 inches (on August 27) in Huron. Elsewhere on the 27th, dailyrecord totals topped the 3-inch mark in Marshfield, WI (3.55 inches), and Rochester, MN (3.51 inches). Unsettled weather also prevailed in the East, where daily-record amounts included 3.26 inches (on August 28) in Martinsburg, WV, and 3.17 inches (on August 27) in Philadelphia, PA. Mid- to late-August downpours from Fred, Henri, and non-tropical sources saturated Northeastern soils and primed the mid-Atlantic for deadly flooding on September 1-2, when Ida's deluge arrived.

Late-month heat on the central and southern Plains generally peaked from August 23-25. In Kansas, daily-record highs for August 24 soared to 106°F in Garden City and 104°F in Russell. With a high of 100°F, Burlington, CO, also posted a triple-digit, daily-record high on August 24—and again on the 31st. Dalhart, TX, notched consecutive daily-record highs (103 and 101°F, respectively) on August 24-25. Meanwhile, hot, humid weather prevailed in the South and East. From August 23-25, Vicksburg, MS, tallied a trio of triple-digit readings, including a daily-record high of 102°F on the 25th. On August 26, Eastern daily-record highs reached 95°F in Lynchburg, VA, and 90°F in Caribou, ME. Southern and Eastern humidity levels did not allow for much cooling at night; lows of 84°F (on August 24 and 28) in Miami, FL, tied a station record for highest-ever minimum temperature. In contrast, a cold front knocked down Western heat, following a final flurry of record-setting temperatures. On August 30, daily-record highs in California's San Joaquin Valley soared to 108°F in Merced and Madera. Farther east, strong thunderstorms sweeping across Montana resulted in a wind gust to 79 mph (on August 30) at Bozeman Airport—a record for that location. Previously, Bozeman's highest gust (78 mph) had occurred during a thunderstorm on July 30, 1957. Although cooler air overspread the West, end-ofmonth heat persisted across the Deep South. In Texas, dailyrecord highs included 97°F (on August 30) in Galveston and 105°F (on August 31) in Del Rio. Cooler air also arrived in New England at the end of the month, but it was not enough to prevent Maine locations such as Caribou (69.5°F, or 4.6°F above normal) and Houlton (69.2°F, or 4.8°F above normal) from experiencing record-high August average temperatures.

August started on a warm note in much of Alaska, but cooler weather soon arrived and persisted for the remainder of the month. Fairbanks logged consecutive daily-record highs (88 and 89°F, respectively) on August 2-3. Kotzebue achieved a high of 80°F on the 4th, tying a monthly record originally set on August 6, 1968. More than a week later, daily-record lows were set in several Alaskan locations, including Nome (31°F on August 12) and Cold Bay (39°F on August 14). Nome had last reported an August freeze on August 20, 2017. By the morning of August 22, low temperatures near or below the freezing mark were noted in locations such as Northway (31°F), McGrath

(33°F), and Delta Junction (34°F). Widespread Alaskan freezes occurred in late August, especially across northern and interior sections of the state. King Salmon noted consecutive daily-record lows (32 and 26°F, respectively) on August 27-28. The 28th also featured the month's lowest readings in locations such as Bettles (30°F) and Delta Junction (33°F). Despite the cool conditions, periods of precipitation—including high-elevation snow—occurred throughout the month. Anchorage received measurable rain each day from August 8-12, totaling 2.01 inches, aided by a daily-record sum (1.25 inches) on the 8th. That marked the wettest day in Anchorage since September 29, 2015, when 1.56 inches fell. The week of August 15-21 featured precipitation totaling more than an inch in Fairbanks (1.72 inches) and Tanana (1.60 inches). In southeastern Alaska, Sitka collected a daily-record sum (1.64 inches) for August 28.

Hawaiian rainfall briefly increased when the remnants of former Hurricane Linda moved north of Maui, across Molokai, and just south of Oahu on August 23. In a 48-hour period ending the morning of August 24, rainfall totals included 7.12 inches on Kauai's Mount Waialeale and 7.10 inches on Oahu at the Manoa Lyon Arboretum. A few wind gusts exceeding 40 mph were reported on several islands, with Lanai Airport clocking 38 mph. During drier periods, there were sometimes unusually large temperature swings. Prior to Linda's arrival, Kahului, Maui, noted consecutive daily-record lows (63 and 64°F, respectively) on August 16-17. A few days later, on August 21, Hilo (on the Big Island) tallied a daily record-tying high of 87°F. At the state's major airport observation sites, August rainfall ranged from 0.29 inch (35 percent of normal) in Honolulu, Oahu, to 7.34 inches (65 percent) in Hilo. In Kahului, where monthly rainfall totaled 0.66 inch (125 percent of normal), a 74-day spell without measurable rain ended on August 3.

Fieldwork

Fieldwork summary provided by USDA/NASS

August was warmer than average for much of the nation. Large areas of the Great Lakes, mid-Atlantic, Northeast, Pacific Northwest, and the Plains recorded monthly temperatures 2°F or more above normal. In contrast, portions of the Rockies, Southwest, and Texas were cooler than normal. Meanwhile, most of California, Nevada, and the Pacific Northwest remained drier than normal, but at least twice the average amount of rain fell in parts of the Rockies. Many areas in the Great Lakes, mid-Atlantic, Midwest, South, and Southwest also recorded higher-than-normal amounts of August precipitation.

By August 1, ninety-one percent of the nation's corn had reached the silking stage, equal to last year but 5 percentage points ahead of the 5-year average. On August 1, thirty-eight percent of the corn was at or beyond the dough stage, 1 percentage point ahead of last year and 5 points ahead of average. By August 15, seventy-three percent of the corn was at or beyond the dough stage, 1 percentage point behind last year but 5 points ahead of average. On August 15, twenty-two percent of this year's corn was denting, 1 percentage point ahead of last year but equal to the average. By August 29, ninety-one percent of the corn acreage was at or beyond the dough stage, 2 percentage points behind last year but 2 points ahead of average. By August 29, fifty-nine percent of the corn was denting, 1 percentage point behind last year but 4 points ahead of average. Nine percent of the nation's corn was mature by August 29, two percentage points behind last year

and 1 point behind average. On August 29, sixty percent of the nation's corn was rated in good to excellent condition, 2 percentage points below the same time last year.

By August 1, eighty-six percent of the nation's soybeans had reached the blooming stage, 2 percentage points ahead of last year and 4 points ahead of the 5-year average. By August 1, fifty-eight percent of the soybeans had begun setting pods, 1 percentage point ahead of last year and 6 points ahead of average. By August 15, ninety-four percent of the soybeans had reached the blooming stage, 1 percentage point behind last year but equal to the average. By August 15, eighty-one percent of the soybeans had begun setting pods, 2 percentage points behind last year but 2 points ahead of average. By August 29, ninety-three percent of the soybeans had begun setting pods, 2 percentage points behind last year but 1 point ahead of the average. Nationally, leaf drop was 9 percent complete by August 29, two percentage points ahead of both last year and the average. On August 29, fifty-six percent of the nation's soybeans were rated in good to excellent condition, 10 percentage points below the same time last year.

Ninety-five percent of the 2021 winter wheat acreage had been harvested by August 8, six percentage points ahead of last year and 4 points ahead of the 5-year average. During that week, winter wheat harvest progress advanced at least 10 percentage points from the previous week in Idaho, Montana, and Washington.

Eighty-two percent of the nation's cotton had reached the squaring stage by August 1, eight percentage points behind both last year and the 5-year average. By August 1, fifty percent of the cotton had begun setting bolls, 2 percentage points behind last year and 3 points behind average. Ninetythree percent of the cotton acreage had reached the squaring stage by August 15, six percentage points behind both last year and the average. By August 15, seventy-five percent of the cotton had begun setting bolls, 4 percentage points behind last year and 7 points behind average. By August 15, ten percent of the nation's cotton had open bolls, 4 percentage points behind last year and 5 points behind average. By August 29, eighty-six percent of the cotton had begun setting bolls, 6 percentage points behind last year and 8 points behind average. By August 29, twenty-one percent of the cotton had open bolls, 7 percentage points behind last year and 5 points behind average. On August 29, seventy percent of the cotton acreage was rated in good to excellent condition, 26 percentage points above the same time last year.

By August 1, fifty-seven percent of the sorghum acreage had reached the headed stage, 4 percentage points ahead of last year and 3 points ahead of the 5-year average. Twenty-two percent of the sorghum was at or beyond the coloring stage by August 1, one percentage point behind last year and 3 points behind average. By August 15, eighty-two percent of the sorghum had reached the headed stage, 1 percentage point ahead of last year and 3 points ahead of average. Thirty-one percent of the sorghum was at or beyond the coloring stage by August 15, two percentage points behind last year and 5 points behind average. By August 29, ninety-five percent of the sorghum had reached the headed stage, equal to last year but 2 percentage points ahead of average. Fifty-nine percent of the sorghum was at or beyond the coloring stage by August 29, three percentage points ahead of both last year and the 5-year average. By August 29, twenty-three percent of the sorghum acreage was mature, 1 percentage point behind last year and 5 points behind average. Seventy-five percent of Texas' sorghum acreage was mature by August 29, two percentage

points ahead of both last year and the average. Eighteen percent of the nation's sorghum acreage had been harvested by August 29, three percentage points behind last year and 2 points behind average. Fifty-eight percent of the sorghum acreage was rated in good to excellent condition on August 29, eight percentage points above the same time last year.

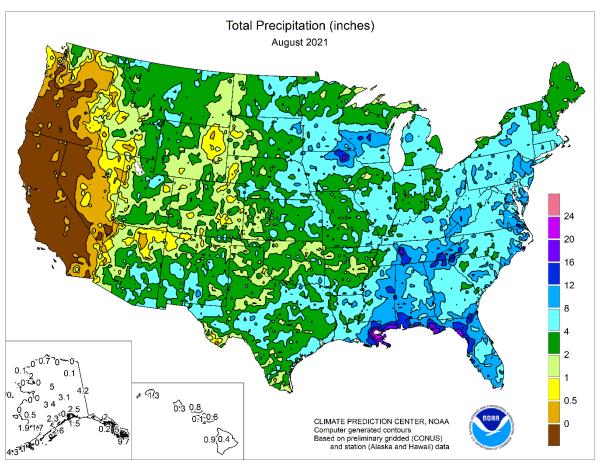
By August 1, fifty-nine percent of the nation's rice acreage had reached the headed stage, 2 percentage points ahead of the previous year but 6 points behind the 5-year average. By August 15, eighty-six percent of the rice had reached the headed stage, 2 percentage points ahead of the previous year but 3 points behind average. Nationally, 12 percent of the rice was harvested by August 15, one percentage point behind last year but equal to the average. By August 29, ninety-seven percent of the rice had reached the headed stage, 1 percentage point ahead of the previous year but 1 point behind average. Nationally, 19 percent of the rice was harvested by August 29, one percentage point behind last year and 3 points behind average. On August 29, seventy-seven percent of the rice was rated in good to excellent condition, 1 percentage point above the same time last year.

Forty-eight percent of the nation's oat acreage had been harvested by August 1, one percentage point ahead of last year and 6 points ahead of the 5-year average. On August 1, thirty-six percent of the oats were rated in good to excellent condition, 26 percentage points below the same time last year. Seventy-five percent of the oats had been harvested by August 15, two percentage points ahead of last year and 5 points ahead of average. Ninety-two percent of the oats had been harvested by August 29, two percentage points ahead of last year and 3 points ahead of average.

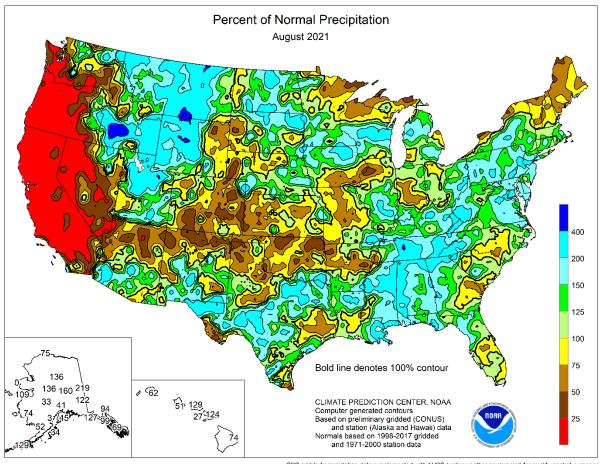
By August 1, producers had harvested 13 percent of the nation's barley, 9 percentage points ahead of last year and 5 points ahead of the 5-year average. By August 15, barley producers had harvested 54 percent of the nation's crop, 23 percentage points ahead of last year and 10 points ahead of average. On August 15, twenty-three percent of the barley was rated in good to excellent condition, 54 percentage points below the same time last year. By August 29, barley producers had harvested 85 percent of the crop, 14 percentage points ahead of last year and 7 points ahead of average. Harvest progress was ahead of the 5-year average in all five estimating states.

By August 1, seventeen percent of the nation's spring wheat had been harvested, 13 percentage points ahead of the previous year and 9 points ahead of the 5-year average. By August 15, fifty-eight percent of the spring wheat had been harvested, 30 percentage points ahead of the previous year and 22 points ahead of average. On August 15, eleven percent of the spring wheat was rated in good to excellent condition, 59 percentage points below the same time last year. By August 29, eighty-eight percent of the spring wheat had been harvested, 22 percentage points ahead of the previous year and 17 points ahead of average. Harvest progress was ahead of average in all six estimating states.

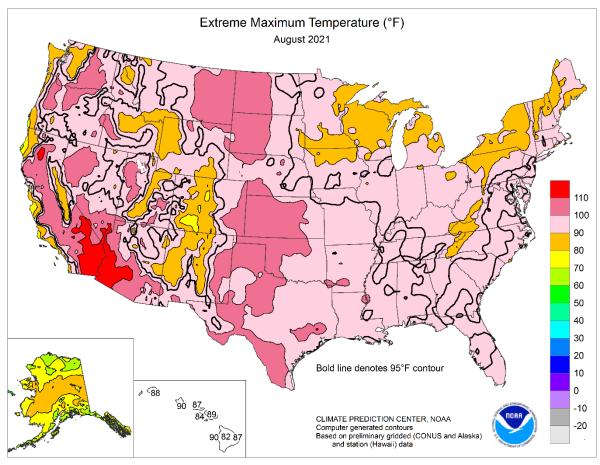
By August 1, eighty-eight percent of the nation's peanut crop had reached the pegging stage, 1 percentage point behind both the previous year and the 5-year average. By August 15, ninety-five percent of the peanuts had reached the pegging stage, 1 percentage point behind both the previous year and the average. On August 29, seventy-six percent of the peanut acreage was rated in good to excellent condition, unchanged from the same time last year.

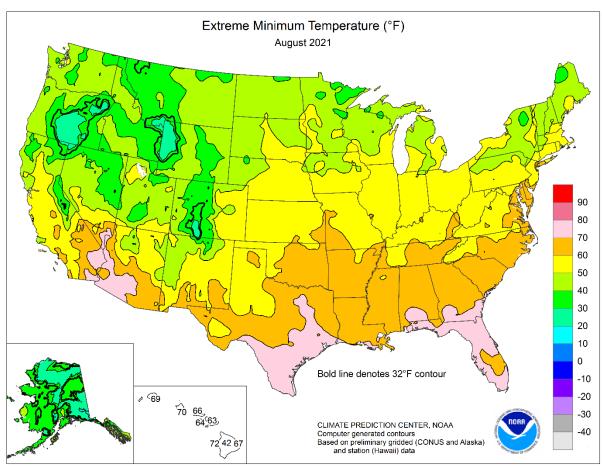


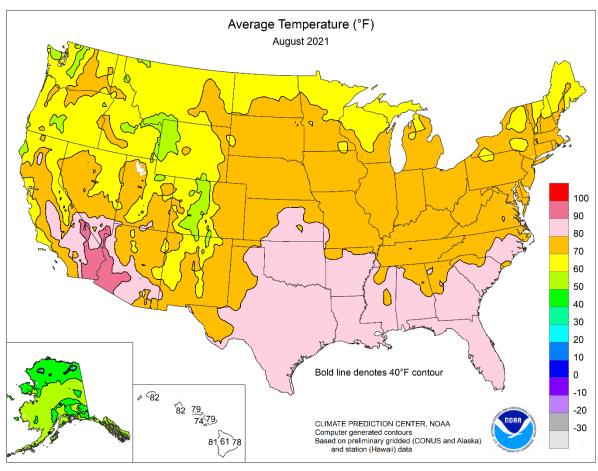
CPC gridded precipitation data supplemented with AHPS (water.weather.gov/precip/) for quality control purposes

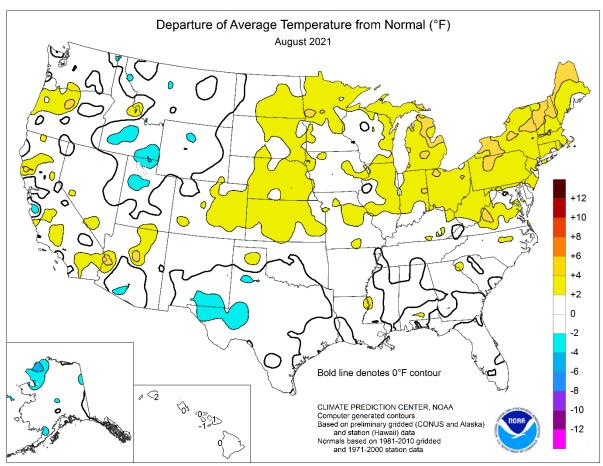


CPC gridded precipitation data supplemented with AHPS (water.weather.gov/precip/) for quality control purposes









National Weather Data for Selected Cities August 2021

Data Provided by Climate Prediction Center

		TEM	IP, °F	PR	ECIP.		TEM	P, *F	PRECIP.			TEN	IP, *F	PR	ECIP.
	STATES	Ä	RE		RE	STATES	GE	RE		RE	STATES	Ä	RE		RE
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	STATIONS	AVERAGE	EPARTURE	5	DEPARTURE	STATIONS	AVERA)EPARTURE	5	DEPARTURE	STATIONS	AVERAGE	DEPARTURE	5	DEPARTURE
			DE		7			7		7					7
AK	ANCHORAGE BARROW	58 39	1	4.25 0.79	1.02 -0.28	WICHITA KY LEXINGTON	82 75	2	1.71 7.44	-1.97 4.21	TOLEDO YOUNGSTOWN	77 73	5 4	2.11 9.41	-1.01 6.18
	FAIRBANKS	57	1	3.62	1.74	LOUISVILLE	81	2	3.25	-0.07	OK OKLAHOMA CITY	81	-2	3.51	0.18
	JUNEAU	57	1	8.41	2.68	PADUCAH	79	1	2.25	-0.49	TULSA	84	2	0.79	-2.11
	KODIAK	56	1	1.55	-3.04	LA BATON ROUGE	81	-2	8.26	0.76	OR ASTORIA	61	0	0.50	-0.67
	NOME	49	-1	3.50	0.30	LAKE CHARLES	84	1	7.25	2.38	BURNS	68	3	0.01	-0.39
AL	BIRMINGHAM HUNTSVILLE	81 79	0 -1	7.70 6.36	3.78 2.78	NEW ORLEANS SHREVEPORT	85 85	2	8.02 3.61	2.03 0.91	EUGENE MEDFORD	71 76	4	0.00	-0.64 -0.44
	MOBILE	81	0	13.09	6.12	MA BOSTON	77	5	5.83	2.52	PENDLETON	73	2	0.00	-0.44
	MONTGOMERY	82	1	5.20	1.26	WORCESTER	72	4	5.42	1.72	PORTLAND	73	3	0.05	-0.64
AR	FORT SMITH	84	1	0.86	-1.72	MD BALTIMORE	80	4	4.36	1.10	SALEM	73	5	0.02	-0.46
AZ	LITTLE ROCK FLAGSTAFF	82 65	0	1.31 3.50	-1.27 0.41	ME CARIBOU PORTLAND	69 71	6	2.36 2.07	-1.37 -1.04	PA ALLENTOWN ERIE	75 75	3 5	7.81 3.33	4.14 -0.13
AZ	PHOENIX	93	-1	1.52	0.41	MI ALPENA	71	6	2.46	-0.75	MIDDLETOWN	78	4	5.89	2.72
	PRESCOTT	74	0	3.58	0.97	GRAND RAPIDS	74	3	2.19	-1.37	PHILADELPHIA	79	3	6.17	2.70
	TUCSON	86	0	3.78	1.39	HOUGHTON LAKE	70	5	4.83	1.45	PITTSBURGH	74	3	6.18	2.72
CA	BAKERSFIELD	86	4	0.00	-0.05	LANSING	75	6	5.09	1.88	WILKES-BARRE	75	5	6.07	2.69
	EUREKA FRESNO	56 85	-2 4	0.01	-0.33 -0.01	MUSKEGON TRAVERSE CITY	74 73	4 6	4.49 4.24	1.12 0.86	WILLIAMSPORT RI PROVIDENCE	76 75	4	3.89 4.83	0.06 1.26
	LOS ANGELES	69	0	0.02	-0.04	MN DULUTH	69	5	2.41	-1.26	SC CHARLESTON	81	0	10.84	3.69
	REDDING	83	3	0.00	-0.21	INT_L FALLS	67	4	2.77	-0.03	COLUMBIA	81	0	9.54	4.28
	SACRAMENTO	76	1	0.00	-0.06	MINNEAPOLIS	74	3	6.79	2.49	FLORENCE	82	2	7.36	2.12
	SAN DIEGO SAN FRANCISCO	73 65	2	0.23	0.20 -0.05	ROCHESTER ST. CLOUD	69 70	0 2	6.69 3.64	2.14 -0.13	GREENVILLE SD ABERDEEN	79 73	0	3.20 3.91	-1.29 1.51
	STOCKTON	76	0	0.00	-0.03	MO COLUMBIA	80	3	1.24	-3.14	HURON	74	2	2.10	-0.32
СО	ALAMOSA	65	2	0.11	-1.14	KANSAS CITY	80	3	5.23	1.36	RAPID CITY	72	0	2.17	0.61
	CO SPRINGS	74	5	0.24	-3.08	SAINT LOUIS	81	2	4.85	1.87	SIOUX FALLS	74	4	6.26	3.23
	DENVER INTL	75	3	0.29	-1.40	SPRINGFIELD	79	1	1.62	-1.91	TN BRISTOL	77	3	5.00	1.56
	GRAND JUNCTION PUEBLO	76 76	1	1.54 3.22	0.55 0.91	MS JACKSON MERIDIAN	82 80	1	2.83 6.30	-1.42 2.31	CHATTANOOGA KNOXVILLE	80 79	1	11.47 10.04	8.01 6.79
СТ	BRIDGEPORT	76	3	2.20	-1.77	TUPELO	82	1	6.51	3.08	MEMPHIS	83	1	2.25	-0.62
	HARTFORD	75	3	8.74	4.82	MT BILLINGS	71	-1	2.40	1.64	NASHVILLE	81	2	6.93	3.79
DC	WASHINGTON	81	3	7.96	5.03	BUTTE	61	-1	1.20	-0.16	TX ABILENE	83	1	0.57	-2.00
DE	WILMINGTON	78	3	4.66	1.44	CUT BANK	63	0	1.68	0.50	AMARILLO	79	3	0.84	-2.06
FL	DAYTONA BEACH JACKSONVILLE	83 82	2	8.31 5.88	1.93 -0.92	GLASGOW GREAT FALLS	71 66	0	1.68 2.19	0.43 0.61	AUSTIN BEAUMONT	86 84	0	3.28 5.65	0.94 0.26
	KEY WEST	85	0	4.11	-1.28	HAVRE	68	0	1.04	-0.08	BROWNSVILLE	88	2	0.49	-1.94
	MIAMI	85	1	6.79	-2.11	MISSOULA	67	0	1.50	0.30	CORPUS CHRISTI	85	0	1.49	-1.42
	ORLANDO	85	2	6.10	-1.03	NC ASHEVILLE	74	1	11.41	6.98	DEL RIO	89	3	2.87	0.70
	PENSACOLA TALLAHASSEE	84 82	2	11.00 5.55	4.24 -1.80	CHARLOTTE GREENSBORO	80 78	3	2.99 3.85	-1.24 -0.03	EL PASO FORT WORTH	81 85	0 -1	2.38 4.52	0.37 2.61
	TAMPA	85	2	7.30	-0.49	HATTERAS	82	3	11.15	4.22	GALVESTON	87	2	3.51	0.00
	WEST PALM BEACH	84	1	8.93	0.96	RALEIGH	81	2	3.24	-1.02	HOUSTON	86	1	0.82	-2.93
GA	ATHENS	81	2	6.79	3.28	WILMINGTON	82	2	9.85	2.44	LUBBOCK	79	1	3.61	1.71
	ATLANTA	80	1	6.93	3.04	ND BISMARCK	73	3	1.06	-1.22	MIDLAND	80	-1	0.84	-1.00
	AUGUSTA COLUMBUS	82 81	2 -1	5.76 7.26	1.44 3.51	DICKINSON FARGO	69 72	1	1.57 2.85	0.00	SAN ANGELO SAN ANTONIO	82 85	-1 0	5.19 1.28	2.93 -0.81
	MACON	81	1	5.43	1.32	GRAND FORKS	70	2	5.07	2.20	VICTORIA	85	1	2.43	-0.41
	SAVANNAH	82	0	3.59	-2.96	JAMESTOWN	71	3	1.83	-0.26	WACO	85	0	2.52	0.48
н	HILO	78	1	7.30	-2.55	NE GRAND ISLAND	76	2	4.49	1.37	WICHITA FALLS	83	-1	4.78	2.30
	HONOLULU KAHULUI	81 79	0	0.29 0.62	-0.28 0.10	LINCOLN NORFOLK	78 76	3	3.36 3.73	-0.10 0.50	UT SALT LAKE CITY VA LYNCHBURG	77 79	0 5	2.28 2.48	1.58 -0.75
	LIHUE	82	2	1.33	-0.80	NORTH PLATTE	76	4	3.73	0.80	NORFOLK	79	1	6.19	0.66
IA	BURLINGTON	75	0	3.54	-0.75	OMAHA	78	3	5.29	1.48	RICHMOND	80	2	7.16	2.48
	CEDAR RAPIDS	73	2	2.36	-2.16	SCOTTSBLUFF	74	2	0.28	-1.02	ROANOKE	79	4	5.39	1.86
	DES MOINES DUBUQUE	76 72	2 2	2.08 5.50	-2.06 1.07	VALENTINE NH CONCORD	76 72	4	2.40 3.35	0.22 0.19	WASH/DULLES VT BURLINGTON	78 74	3 5	4.59 4.36	1.09 0.44
	SIOUX CITY	74	2	3.95	0.74	NJ ATLANTIC_CITY	77	3	6.26	0.19 2.14	VI BURLINGTON WA OLYMPIA	66	2	4.36 0.01	-0.94
	WATERLOO	74	3	6.62	2.34	NEWARK	80	4	7.17	3.49	QUILLAYUTE	60	1	0.78	-1.70
ID	BOISE	74	0	0.28	0.00	NM ALBUQUERQUE	77	1	0.36	-1.22	SEATTLE-TACOMA	67	1	0.11	-0.78
1	LEWISTON	76	2	0.22	-0.48	NV ELY	67	0	0.13	-0.80	SPOKANE	71	2	0.14	-0.45
IL	POCATELLO CHICAGO/O_HARE	68 77	-1 5	1.46 4.50	0.85 -0.41	LAS VEGAS RENO	93 75	2	0.00	-0.38 -0.27	YAKIMA WI EAU CLAIRE	72 71	3	0.03 3.69	-0.28 -0.78
I "	MOLINE	76	2	3.95	-0.41	WINNEMUCCA	72	2	0.00	-0.21	GREEN BAY	71	4	8.07	4.72
	PEORIA	77	3	3.55	0.34	NY ALBANY	71	1	3.26	-0.18	LA CROSSE	74	3	10.34	6.03
	ROCKFORD	75	3	3.61	-1.00	BINGHAMTON	70	3	6.21	2.78	MADISON	73	3	3.23	-1.05
IN	SPRINGFIELD EVANSVILLE	76 79	2	5.24 6.71	2.03 3.74	BUFFALO ROCHESTER	76 74	6 4	3.62 2.52	0.39 -0.92	MILWAUKEE WV BECKLEY	75 73	5 3	1.63 4.75	-2.34 1.28
IIN	FORT WAYNE	79	3	2.35	-1.26	SYRACUSE	75	5	6.18	2.63	CHARLESTON	77	3	6.00	2.27
	INDIANAPOLIS	77	3	2.02	-1.08	OH AKRON-CANTON	76	5	3.72	0.18	ELKINS	73	4	3.68	-0.14
	SOUTH BEND	75	4	5.44	1.72	CINCINNATI	77	2	5.02	1.63	HUNTINGTON	77	2	6.62	2.90
KS	CONCORDIA	80	3	3.35	0.22	CLEVELAND	75	3	6.91	3.42	WY CASPER	68	-1 2	0.92	0.06
1	DODGE CITY GOODLAND	80 77	2	1.22 0.57	-1.52 -2.13	COLUMBUS DAYTON	77 77	3 4	7.14 2.88	3.84 -0.09	CHEYENNE LANDER	70 69	3 -1	0.48 0.72	-1.47 0.09
	TOPEKA	79	2	4.02	-0.25	MANSFIELD	76	6	3.78	-0.62	SHERIDAN	69	0	0.90	0.03

Based on 1981-2010 normals *** Not Available

National Agricultural Summary

September 6 - 12, 2021

Weekly National Agricultural Summary provided by USDA/NASS

HIGHLIGHTS

Most of the nation experienced drier-than-normal weather. In contrast, much of California and the Pacific Northwest recorded at least twice the normal amount of precipitation, along with many locations in the Great Lakes, New England, and Southeast. Parts of Florida, Georgia, Maine, and South Carolina recorded 3 inches of rain or more for the week. Meanwhile, the western half of

the country was warmer than normal during the week. Most of California and Nevada, as well as large areas of the High Plains, Rockies, and Southwest, recorded temperatures 6°F or more above normal. Elsewhere, portions of the eastern half of the nation were cooler than normal. Parts of Kentucky, Mississippi, and Tennessee recorded weekly temperatures at least 4°F below normal.

Corn: By September 12, eighty-seven percent of this year's corn acreage was denting, 1 percentage point behind last year but 6 points ahead of the 5-year average. During the week, denting progress advanced 10 percentage points or more in 14 of the 18 estimating states. Thirty-seven percent of the nation's corn was mature by September 12, two percentage points behind last year but 6 points ahead of average. Four percent of the 2021 corn acreage was harvested by week's end, 1 percentage point behind both last year and the average harvest pace. Harvest was underway in 12 of the 18 estimating states. On September 12, fifty-eight percent of the corn acreage was rated in good to excellent condition, 1 percentage point below the previous week and 2 points below the same time last year. In Iowa, 59 percent of the corn was rated in good to excellent condition.

Soybean: Nationally, leaf drop was 38 percent complete by September 12, three percentage points ahead of last year and 9 points ahead of the 5-year average. During the week, leaf drop advanced 10 percentage points or more in 16 of the 18 estimating states. On September 12, fifty-seven percent of the nation's soybean acreage was rated in good to excellent condition, unchanged from the previous week but 6 percentage points below the same time last year.

Winter Wheat: Nationwide, producers had sown 12 percent of the intended 2022 winter wheat acreage by September 12, three percentage points ahead of last year and 4 points ahead of the 5-year average. Planting progress was most advanced in Washington at 53 percent, 11 percentage points ahead of last year and 21 points ahead of average.

Cotton: By September 12, ninety-six percent of the nation's cotton acreage had begun setting bolls, 3 percentage points behind both last year and the 5-year average. By September 12, thirty-six percent of the nation's cotton had open bolls, 10 percentage points behind last year and 7 points behind average. By September 12, five percent of the cotton acreage was harvested, 1 percentage point behind last year and 3 points behind average. On September 12, sixty-

four percent of the cotton acreage was rated in good to excellent condition, 3 percentage points above the previous week and 19 points above the same time last year.

Sorghum: Eighty-three percent of the nation's sorghum acreage was at or beyond the coloring stage by September 12, equal to last year but 3 percentage points ahead of the 5-year average. By September 12, thirty-nine percent of the sorghum was mature, 1 percentage point ahead of both last year and the average. Eighty percent of Texas' sorghum acreage was mature by September 12, equal to last year but 1 percentage point ahead of average. Twenty-one percent of the 2021 sorghum acreage had been harvested by September 12, two percentage points behind last year and 4 points behind average. Fifty-seven percent of the nation's sorghum acreage was rated in good to excellent condition on September 12, unchanged from the previous week but 5 percentage points above the same time last year.

Rice: Nationally, 40 percent of the rice acreage was harvested by September 12, seven percentage points ahead of last year but 3 points behind the 5-year average. On September 12, seventy-four percent of the nation's rice was rated in good to excellent condition, 1 percentage point below the previous week but 2 points above the same time last year.

Small Grains: By September 12, barley producers had harvested 97 percent of the nation's crop, 3 percentage points ahead of last year and 4 points ahead of the 5-year average. Harvesting of barley was complete or nearing completion in all five estimating states.

Other Crops: Two percent of the nation's peanut acreage was harvested as of September 12, two percentage points behind last year and 1 point behind the 5-year average. On September 12, seventy-seven percent of the peanut acreage was rated in good to excellent condition, 3 percentage points above the previous week and 6 points above the same time last year.

Crop Progress and Condition Week Ending September 12, 2021

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

Corn Percent Dented											
	Prev	Prev	Sep 12	5-Yr							
	Year	Week	2021	Avg							
СО	83	42	77	71							
IL	91	83	93	85							
IN	80	72	88	78							
IA	89	77	87	83							
KS	90	76	89	88							
KY	91	72	83	90							
MI	76	61	70	63							
MN	94	71	86	80							
MO	95	84	95	92							
NE	93	78	90	87							
NC	96	97	98	97							
ND	66	63	77	65							
ОН	74	73	84	68							
PA	66	41	52	69							
SD	86	68	86	74							
TN	95	91	95	96							
TX	96	89	93	92							
WI	75	65	82	65							
18 Sts	88	74	87	81							
These 18 St	These 18 States planted 92%										

These 18 States planted 92%
of last year's corn acreage.

Corn Condition by											
		Perc	ent								
	VP	Р	F	G	EX						
СО	6	14	27	41	12						
IL	3	6	29	41	21						
IN	2	6	23	57	12						
IA	2	8	31	50	9						
KS	9	13	25	44	9						
KY	1	3	15	63	18						
MI	1	4	22	48	25						
MN	8	17	36	32	7						
МО	2	7	27	54	10						
NE	4	9	21	43	23						
NC	1	2	16	62	19						
ND	15	27	41	17	0						
ОН	1	5	24	54	16						
PA	0	1	14	67	18						
SD	14	30	31	24	1						
TN	1	3	17	59	20						
TX	1	9	29	44	17						
WI	3	6	17	43	31						
18 Sts	5	10	27	44	14						
Prev Wk	4	10	27	45	14						
Prev Yr	5	10	25	46	14						

Corn Percent Mature											
	Prev	Prev	Sep 12	5-Yr							
	Year	Week	2021	Avg							
СО	25	10	19	14							
IL	35	30	51	37							
IN	32	15	34	32							
IA	43	14	32	28							
KS	46	26	45	47							
KY	68	43	60	71							
MI	18	5	24	13							
MN	42	18	34	20							
МО	41	31	50	50							
NE	45	18	35	29							
NC	89	86	92	91							
ND	16	12	22	17							
ОН	13	10	28	20							
PA	16	1	3	22							
SD	44	18	33	22							
TN	59	38	60	76							
TX	78	66	75	71							
WI	24	7	15	18							
18 Sts	39	21	37	31							
These 18 States planted 92%											
of last yea	r's corn ac	reage.									

5	Soybeans Percent Dropping										
	Lea	aves									
	Prev	Prev	Sep 12	5-Yr							
	Year	Week	2021	Avg							
AR	33	21	35	38							
IL	15	9	33	19							
IN	36	18	39	30							
IA	38	10	30	22							
KS	30	12	20	20							
KY	23	10	27	21							
LA	78	43	61	73							
MI	34	22	51	24							
MN	37	25	49	26							
MS	50	36	53	53							
МО	5	4	10	9							
NE	58	20	47	37							
NC	17	11	23	21							
ND	54	44	67	53							
ОН	31	10	30	25							
SD	58	37	58	40							
TN	23	16	26	31							
WI	23	6	22	17							
18 St	s 35	18	38	29							
These	e 18 States plant	ed 96%									

of last year's soybean acreage.

Corn Percent Harvested										
	Prev	Prev	Sep 12	5-Yr						
	Year	Week	2021	Avg						
со	1	NA	1	0						
IL	2	NA	1	3						
IN	1	NA	2	2						
IA	1	NA	0	1						
KS	7	4	11	10						
KY	12	5	15	23						
МІ	0	NA	0	0						
MN	0	0	3	0						
МО	5	1	7	12						
NE	4	NA	1	2						
NC	45	34	49	58						
ND	0	NA	0	0						
ОН	0	NA	0	0						
PA	0	NA	0	2						
SD	1	NA	1	0						
TN	11	7	15	29						
TX	66	53	63	61						
WI	0	NA	0	0						
18 Sts	5	NA	4	5						
These 18 States harvested 94% of last year's corn acreage.										

Soybean Condition by Percent											
	VP	P	F	G	EX						
AR	2	5	28	45	20						
IL	4	7	28	41	20						
IN	3	6	24	57	10						
IA	2	6	30	52	10						
KS	6	8	27	52	7						
KY	1	4	16	62	17						
LA	0	2	13	73	12						
MI	1	6	26	47	20						
MN	8	17	38	31	6						
MS	2	2	18	66	12						
МО	2	6	31	53	8						
NE	2	7	22	50	19						
NC	2	8	24	58	8						
ND	15	27	42	15	1						
ОН	1	5	24	56	14						
SD	10	31	39	19	1						
TN	1	5	19	57	18						
WI	3	6	18	50	23						
18 Sts	4	10	29	45	12						
Prev Wk	4	10	29	46	11						
Prev Yr	3	8	26	50	13						

Crop Progress and Condition Week Ending September 12, 2021

Cotton Percent Setting Bolls					
	Prev	Sep 12	5-Yr		
	Year	Week	2021	Avg	
AL	100	99	100	100	
AZ	100	100	100	100	
AR	100	100	100	100	
CA	100	100	100	92	
GA	100	97	99	100	
KS	95	93	96	89	
LA	100	100	100	100	
MS	98	94	96	100	
МО	94	98	99	98	
NC	96	96	97	98	
ОК	99	90	95	99	
SC	96	99	100	99	
TN	100	100	100	100	
TX	99	92	95	100	
VA	99	93	95	99	
15 Sts	99	94	96	99	
These 15 States planted 99%					
of last year's cotton acreage.					

		Perc	ont					
			Percent					
	VP	Р	F	G	EX			
AL	0	3	14	74	9			
AZ	0	4	9	52	35			
AR	0	1	10	39	50			
CA	0	5	15	80	0			
GA	2	6	23	55	14			
KS	2	7	44	44	3			
LA	0	2	30	64	4			
MS	4	4	22	60	10			
МО	0	6	19	75	0			
NC	2	8	27	56	7			
ОК	1	1	26	71	1			
sc	0	0	17	64	19			
TN	6	11	19	52	12			
TX	1	5	36	43	15			
VA	0	2	12	84	2			
15 Sts	1	5	30	50	14			
Prev Wk	1	6	32	50	11			
Prev Yr	7	20	28	36	9			

Cotton Percent Bolls Opening					
	Prev	Prev	Sep 12	5-Yr	
	Year	Week	2021	Avg	
AL	52	21	27	56	
AZ	95	88	93	83	
AR	82	35	47	75	
CA	19	30	50	21	
GA	50	34	43	57	
KS	25	27	38	22	
LA	82	58	71	85	
MS	52	55	59	59	
МО	29	18	28	45	
NC	37	22	37	45	
ок	34	15	23	35	
sc	18	17	36	42	
TN	27	7	11	46	
TX	44	28	33	35	
VA	33	16	34	36	
15 Sts 46 29 36 43					
These 15 States planted 99%					
of last year's cotton acreage.					

Sorghum Percent Coloring						
	Prev	Prev	Sep 12	5-Yr		
	Year	Week	2021	Avg		
СО	72	76	85	70		
KS	80	64	79	76		
NE	83	81	94	85		
OK	71	59	68	71		
SD	92	81	92	74		
TX	91	88	91	89		
6 Sts	83	73	83	80		
These 6 States planted 100%						
of last year's sorghum acreage.						

Sorghum Percent Harvested						
	Prev	Prev	Sep 12	5-Yr		
	Year	Week	2021	Avg		
со	3	0	0	1		
KS	1	0	1	1		
NE	1	0	2	0		
ок	2	0	0	9		
SD	0	0	2	0		
TX	76	66	69	69		
6 Sts	23	19	21	25		
These 6 States harvested 100%						
of last year's sorghum acreage.						

Cotton Percent Harvested						
	Prev	Prev	Sep 12	5-Yr		
	Year	Week	2021	Avg		
AL	0	NA	0	0		
AZ	6	3	8	8		
AR	0	NA	0	1		
CA	0	NA	0	0		
GA	0	NA	0	1		
KS	0	NA	0	0		
LA	2	0	1	5		
MS	1	0	1	1		
MO	0	NA	0	0		
NC	0	NA	0	0		
ок	0	NA	0	0		
sc	0	NA	0	0		
TN	0	NA	0	0		
TX	13	NA	11	14		
VA	0	NA	1	0		
15 Sts	6	NA	5	8		
These 15 States harvested 99%						
of last year's cotton acreage.						

Sorghum Percent Mature					
	Prev	Prev	Sep 12	5-Yr	
	Year	Week	2021	Avg	
СО	32	21	27	13	
KS	16	11	20	14	
NE	24	6	27	18	
ок	25	14	26	33	
SD	29	23	31	17	
TX	80	77	80	79	
6 Sts	38	32	39	38	
These 6 States planted 100%					
of last year's sorghum acreage.					

Sorghum Condition by					
		Perc	ent		
	VP	Р	F	G	EX
СО	3	7	21	58	11
KS	5	10	29	48	8
NE	8	15	29	36	12
ок	4	9	30	50	7
SD	10	35	41	14	0
TX	1	8	28	48	15
6 Sts	4	10	29	47	10
Prev Wk	3	10	30	47	10
Prev Yr	6	11	31	40	12

Crop Progress and ConditionWeek Ending September 12, 2021

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

	Peanuts Percent Harvested					
		Prev	Prev	Sep 12	5-Yr	
		Year	Week	2021	Avg	
AL		3	NA	1	2	
FL		19	10	13	14	
GA		2	NA	1	3	
NC		0	NA	0	0	
ок		0	NA	0	0	
sc		3	NA	1	2	
ΤX		0	NA	0	0	
VA		0	NA	1	1	
8 Sts		4	NA	2	3	
These 8 States harvested 96%						
of last year's peanut acreage.						

Rice Percent Harvested						
	Prev	Prev	Sep 12	5-Yr		
	Year	Week	2021	Avg		
AR	22	18	33	39		
CA	5	3	8	4		
LA	89	80	89	88		
MS	26	18	50	46		
МО	1	6	17	17		
TX	96	84	89	93		
6 Sts	33	28	40	43		
These 6 States harvested 100%						
of last year's rice acreage.						

Peanut Condition by					
		Perc	ent		
	VP	Р	F	G	EX
AL	0	0	11	72	17
FL	2	2	22	74	0
GA	1	3	17	61	18
NC	1	5	18	69	7
ок	0	0	33	67	0
SC	0	0	4	79	17
TX	0	1	48	50	1
VA	0	0	12	83	5
8 Sts	1	2	20	65	12
Prev Wk	0	2	24	64	10
Prev Yr	2	6	21	57	14

	Rice Condition by					
		Perc	ent			
	VP	Р	F	G	EX	
AR	2	5	27	45	21	
CA	0	0	10	80	10	
LA	0	0	15	79	6	
MS	1	3	18	71	7	
МО	0	3	31	56	10	
TX	1	1	24	58	16	
6 Sts	1	3	22	59	15	
Prev Wk	1	3	21	60	15	
Prev Yr	1	4	23	56	16	

Barley Percent Harvested						
	Prev	Prev	Sep 12	5-Yr		
	Year	Week	2021	Avg		
ID	95	92	95	95		
MN	97	100	100	99		
MT	93	89	96	90		
ND	95	96	100	94		
WA	90	96	100	88		
5 Sts	94	92	97	93		
These 5 States harvested 81%						
of last year's barley acreage.						

Winter Wheat Percent Planted						
	Prev	Prev	Sep 12	5-Yr		
	Year	Week	2021	Avg		
AR	0	0	0	0		
CA	0	0	0	1		
СО	28	22	29	18		
ID	8	9	16	10		
IL	0	0	0	0		
IN	1	0	4	1		
KS	2	0	4	4		
МІ	3	0	4	2		
МО	0	0	0	0		
MT	12	3	14	7		
NE	8	1	17	13		
NC	0	0	0	0		
ОН	1	0	1	0		
ОК	5	0	8	5		
OR	8	3	4	7		
SD	18	3	13	12		
TX	7	1	9	6		
WA	42	36	53	32		
18 Sts	9	5	12	8		
These 18 States planted 90%						

of last year's winter wheat acreage.

Week Ending September 12, 2021

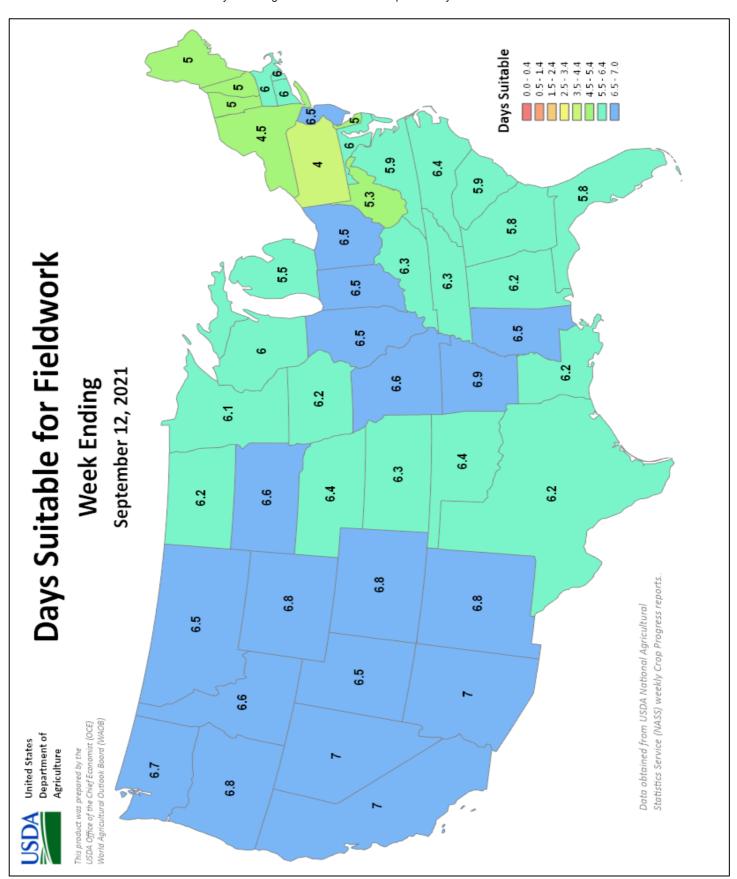
Weekly U.S. Progress and Condition Data provided by USDA/NASS

	Pasture and Range Condition by Percent Week Ending Sep 12, 2021										
	\/D	-				ig Sep 12, 2			F		ΕV
	VP	Р	F	G	EX		VP	Р	•	G	EX
AL	1	1	8	83	7	NH	0	0	10	70	20
AZ	1	3	48	38	10	NJ	0	2	9	89	0
AR	7	23	37	28	5	NM	12	21	50	14	3
CA	40	25	20	15	0	NY	1	13	17	45	24
СО	11	22	31	27	9	NC	3	19	34	41	3
CT	0	0	25	50	25	ND	47	30	19	4	0
DE	0	10	66	19	5	ОН	0	9	36	49	6
FL	1	3	13	55	28	ОК	4	12	41	40	3
GA	2	7	25	57	9	OR	71	16	10	3	0
ID	26	33	28	12	1	PA	0	6	24	64	6
IL	8	10	35	38	9	RI	0	0	0	50	50
IN	5	15	38	38	4	sc	0	3	26	59	12
IA	6	18	41	33	2	SD	39	41	15	5	0
KS	8	15	35	40	2	TN	3	9	27	51	10
KY	2	5	26	55	12	TX	8	20	38	28	6
LA	0	4	36	57	3	UT	19	40	33	8	0
ME	0	5	25	55	15	VT	0	5	15	60	20
MD	0	2	53	32	13	VA	3	17	55	21	4
MA	0	0	0	50	50	WA	81	15	4	0	0
МІ	8	19	29	36	8	wv	2	9	39	49	1
MN	32	31	28	6	3	WI	7	12	21	40	20
MS	1	6	33	52	8	WY	31	39	26	4	0
МО	1	8	28	58	5	48 Sts	20	22	33	21	4
MT	54	34	12	0	0						
NE	12	18	51	17	2	Prev Wk	20	21	30	24	5
NV	45	25	30	0	0	Prev Yr	17	25	34	22	2

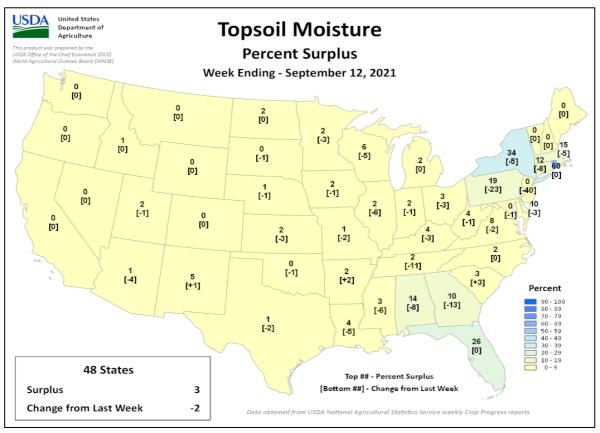
VP - Very Poor; P - Poor; F - Fair; G - Good; EX - Excellent

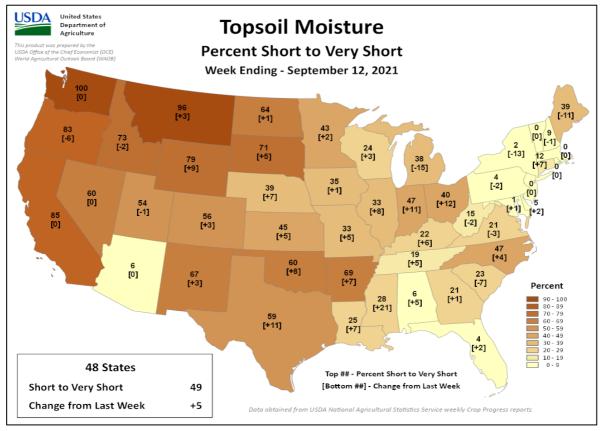
> NA - Not Available * Revised

Week Ending September 12, 2021

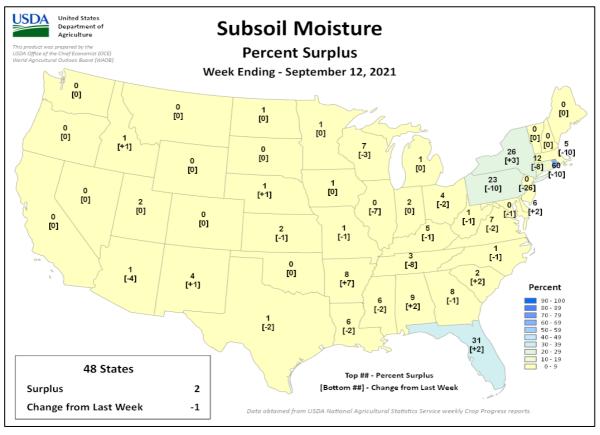


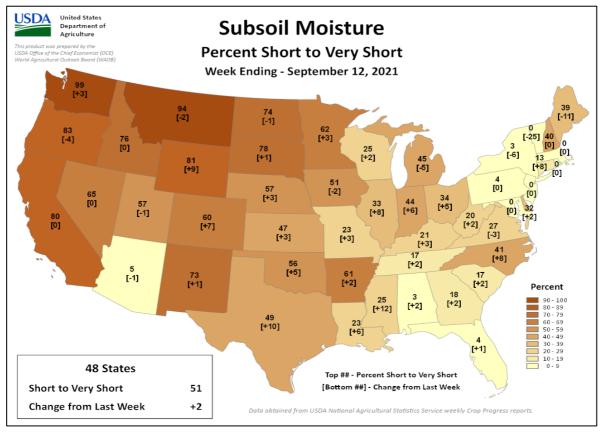
Week Ending September 12, 2021





Week Ending September 12, 2021





September 9 ENSO Diagnostic Discussion

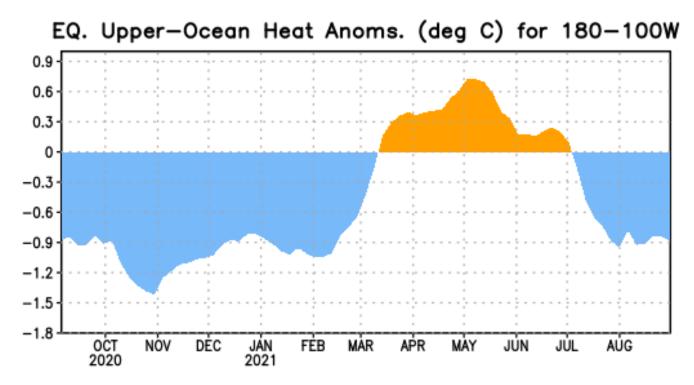


Figure 1: Area-averaged upper-ocean heat content anomaly (°C) in the equatorial Pacific (5°N-5°S, 180°-100°W). The heat content anomaly is computed as the departure from the 1991-2020 base period pentad means.

ENSO Alert System Status: La Niña Watch

Synopsis: A transition from ENSO-neutral to La Niña is favored in the next couple of months, with a 70-80% chance of La Niña during the Northern Hemisphere winter 2021-22.

In the last month, ENSO-neutral continued with near-to-below average sea surface temperatures (SSTs) persisting in the central and eastern equatorial Pacific. In the last week, all of the Niño index values ranged from -0.2°C to -0.3°C. Negative subsurface temperature anomalies (averaged from 180-100°W) remained steady in August (Fig. 1), reflecting below-average temperatures that extended from the surface to ~250m depth in the eastern Pacific Ocean. Low-level wind anomalies were easterly over the western Pacific Ocean, while upper-level wind anomalies were westerly over the western and east-central Pacific. Tropical convection was suppressed near and west of the Date Line and enhanced over Indonesia. Given these conditions, the ocean-atmosphere system reflected ENSO-neutral, but is edging toward La Niña.

The IRI/CPC plume average of forecasts for the Niño-3.4 SST region from the last month favored borderline or weak La Niña during the fall and winter 2021-22. The forecaster consensus this month, however, favors the latest predictions from the NCEP CFSv2 and the North American Multi-Model Ensemble, which suggest higher chances for the

emergence of La Niña. At this time, forecasters anticipate La Niña to be of weak strength (seasonal average Niño-3.4 index values between -0.5°C to -0.9°C). In summary, a transition from ENSO-neutral to La Niña is favored in the next couple of months, with a 70-80% chance of La Niña during the Northern Hemisphere winter 2021-22 (click CPC/IRI consensus forecast for the chances in each 3-month period).

This discussion is a consolidated effort of the National Oceanic and Atmospheric Administration (NOAA), NOAA's National Weather Service, and their funded institutions. Oceanic and atmospheric conditions are updated weekly on the Climate Prediction Center web site (El Niño/La Niña Current Conditions and Expert Discussions). Additional perspectives and analysis are also available in an ENSO blog. A probabilistic strength forecast is available here. The next ENSO Diagnostics Discussion is scheduled for 14 October 2021. To receive an e-mail notification when the monthly ENSO Diagnostic Discussions are released, please send an e-mail message to: ncep.list.enso-update@noaa.gov.

International Weather and Crop Summary

September 5-11, 2021

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

HIGHLIGHTS

EUROPE: The return of dry weather to much of central and eastern Europe allowed winter crop planting and summer crop harvesting to resume, while beneficial showers arrived in France.

WESTERN FSU: A respite from recent heavy rain promoted summer crop drydown and harvesting as well as winter crop sowing.

MIDDLE EAST: Seasonably dry weather favored summer crop harvesting over much of southern and eastern Turkey, with most of the region still a month or so away from the onset of the coolseason rains.

SOUTH ASIA: More wet weather supported kharif crops in India, particularly in previously drier western cotton and oilseed areas.

EASTERN ASIA: Showers in northeastern China provided a late-season boost of moisture to immature corn and soybeans, while drier weather elsewhere benefited summer crop maturation and harvesting.

SOUTHEAST ASIA: A tropical cyclone (Conson) brought widespread heavy rainfall to the Philippines and Indochina, including Thailand.

AUSTRALIA: Passing showers in the west and east benefited reproductive winter grains and oilseeds.

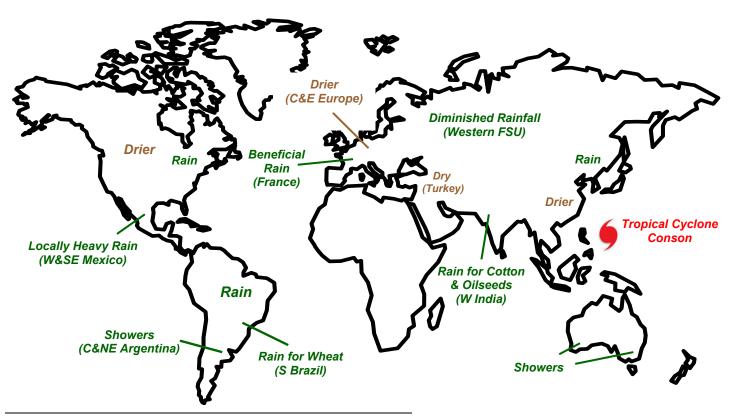
ARGENTINA: Rain benefited winter grains in central and northeastern Argentina.

BRAZIL: Showers provided timely moisture for southern wheat.

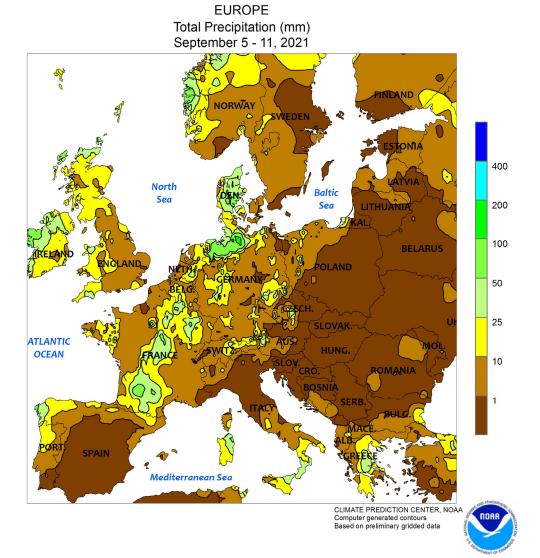
MEXICO: Heavy rain overspread the southeast, benefiting summer crops while increasing reservoir levels.

CANADIAN PRAIRIES: Mostly dry weather supported spring crop harvests.

SOUTHEASTERN CANADA: Moderate to heavy rain provided much-needed moisture for germination and establishment of winter wheat.



For additional information contact: mark.brusberg@usda.gov

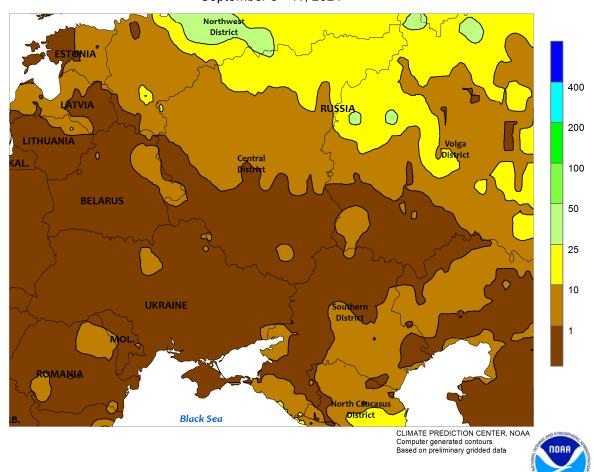


EUROPE

Drier weather across central and eastern Europe contrasted with beneficial showers in France. After recent heavy rain, sunny skies and warm temperatures (2-4°C above normal) from Germany eastward enabled a resumption of fieldwork, including summer crop harvesting and winter crop sowing. However, cooler weather was noted in southeastern Europe, where temperatures averaged up to 4°C below normal. Conversely, widespread albeit highly variable showers (5-130 mm) overspread France, improving soil moisture for winter wheat, barley, and rapeseed establishment but

slowing summer crop drydown and harvesting. Rainfall was lighter in northern-most France and southeastern England (10 mm or less), where short-term dryness has reduced topsoil moisture for winter crop planting; however, longer-term moisture supplies remained overall favorable. Farther south, light to moderate showers (1-45 mm) arrived on northern and western portions of the Iberian Peninsula, with weather radar imagery indicating rain overspreading the remainder of Spain and Portugal after the end of the monitoring period.

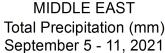
WESTERN FSU Total Precipitation (mm) September 5 - 11, 2021

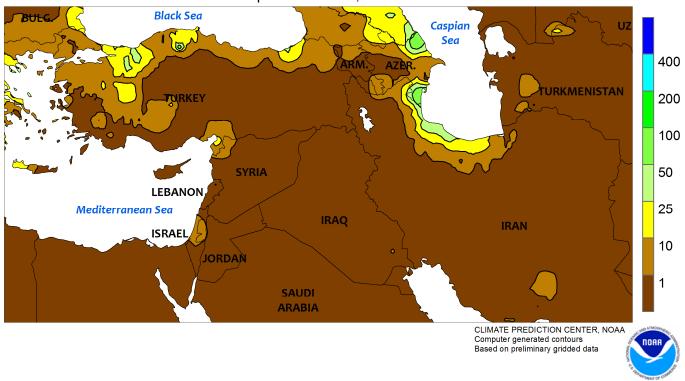


WESTERN FSU

Drier weather promoted seasonal fieldwork following recent heavy rain. On the heels of last week's moderate to heavy showers, sunny skies and cool temperatures (2-5°C below normal) favored summer crop maturation and harvesting as well as winter wheat, barley, and rapeseed sowing across the region's

primary growing areas. Soil moisture remained overall favorable for winter crop establishment, though a few pockets of pesky short-term dryness (60-day rainfall less than 50 percent of normal) were noted in southern Ukraine (Kherson) as well as Ukraine's northeastern oblasts adjacent the Belarus border.



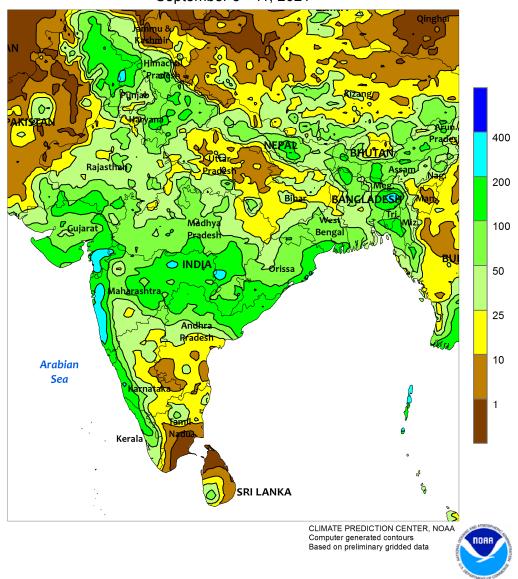


MIDDLE EAST

Despite a few showers in northern and western Turkey, seasonably dry weather prevailed across most of the region. Light to moderate showers (2-35 mm, locally more) were reported along Turkey's Black Sea Coast as well as the western Anatolian Plateau, hampering summer crop harvesting locally but providing early-season moisture for winter grain

sowing. However, most of Turkey's primary summer crop areas in the west, south, and southeast were dry, facilitating cotton, corn, and sunflower harvesting. The region remained in the seasonal lull between the summer crop growing season and the sowing of winter grains, the latter of which gains momentum during October with the onset of cool-season rains.

SOUTH ASIA Total Precipitation (mm) September 5 - 11, 2021

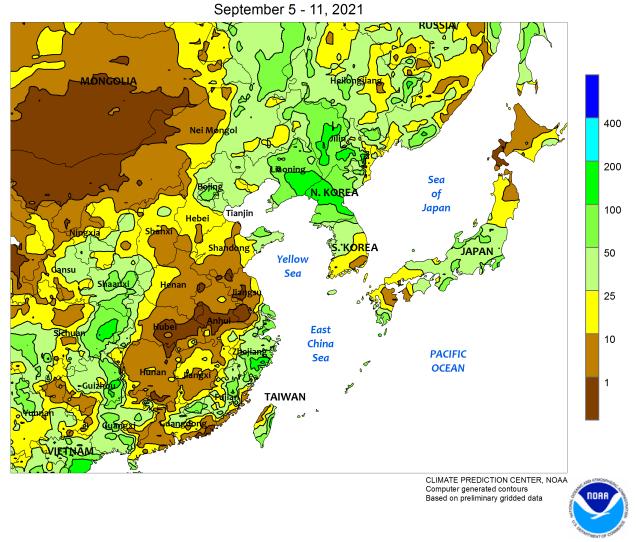


SOUTH ASIA

Showers remained widespread across India with only isolated pockets of dry weather. Most areas recorded rainfall totals of 25 to 100 mm, benefiting kharif crops. In particular, the wet weather aided cotton and oilseeds in western India following season-long subpar rainfall. Additionally, some eastern rice areas also benefited from the increase in moisture after

prolonged dryness. While aiding crops throughout most of India, the rainfall was less welcome in the north and into Pakistan where irrigated rice and cotton were maturing and in need of drier weather. The southwest monsoon typically begins to withdraw in September with a complete cessation of the wet season by mid-October.

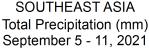
EASTERN ASIA Total Precipitation (mm)

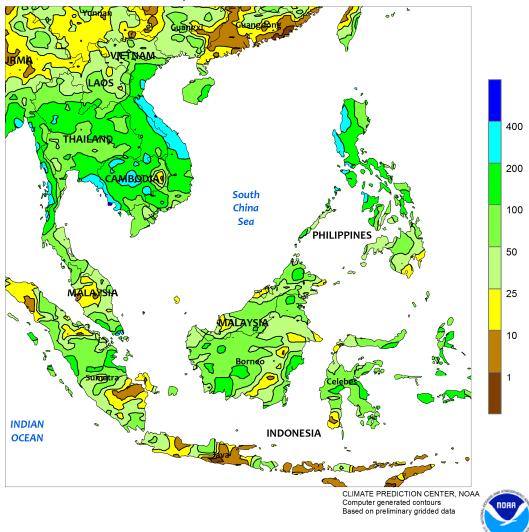


EASTERN ASIA

Showers (10-50 mm or more) continued across northeastern China, providing late-season moisture to immature corn and soybeans. However, drier weather will soon be needed to aid maturation of the crops. In other parts of China, warm, mostly dry weather promoted summer crop maturation and early

harvest activities, including late-crop rice in the south and cotton in the far west. Elsewhere in the region, wet weather (25-100 mm) prevailed across the Korean Peninsula and central Japan but likely came too late in the season to significantly benefit rice and other summer crops.



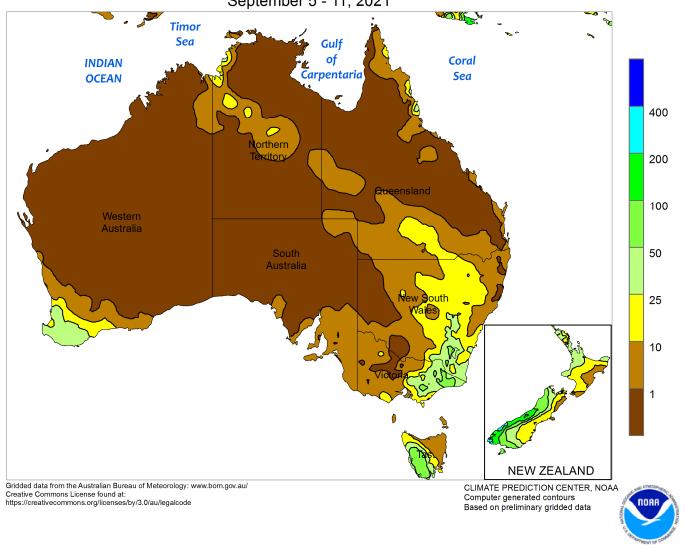


SOUTHEAST ASIA

A slow-moving tropical cyclone (Conson) tracked across the Philippines early in the week and into Vietnam by week's end. The storm brought deluges to parts of the northern Philippines and contributed to the high weekly rainfall totals (150-300 mm) along western sections of the country. Additionally, downpours (150-400 mm) were recorded throughout the minor agricultural areas of central Vietnam as the storm moved inland. In all, rainfall from Conson was observed across large

sections of the Philippines, Indochina, and Thailand, causing localized flooding, but greatly boosting moisture supplies for rice and other crops. Elsewhere, seasonable showers (50-100 mm) prevailed in eastern oil palm areas of Malaysia (Sabah) and throughout Indonesia (Sumatra and Kalimantan) but were sparse in the western reaches of Malaysia. Over the last 60 to 90 days, moisture conditions for oil palm remained near to above normal and better than last year in most places.



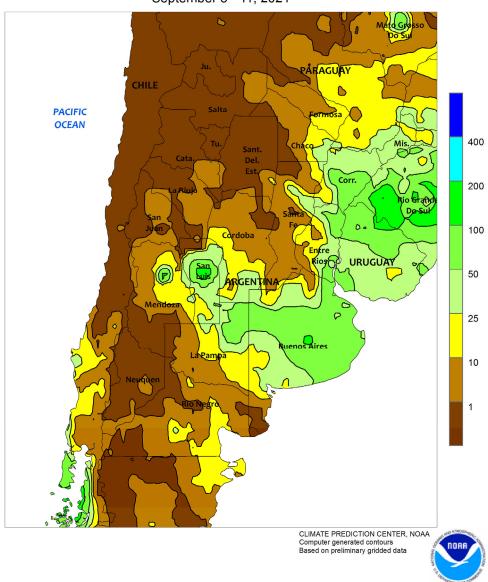


AUSTRALIA

During much of the week, warm, dry weather covered southern and western Australia, spurring winter grain and oilseed development. However, scattered showers (5-20 mm) passed through Western Australia during the latter half of the week, benefitting reproductive winter crops, while dry weather persisted in South Australia and most of Victoria. Farther east, rain (10-25 mm, locally more) in New South Wales favored

wheat, barley, and canola development, helping to maintain good to excellent yield prospects. Elsewhere, warm, sunny weather in southern Queensland promoted wheat and other winter crop development, while the mostly dry weather aided early summer crop sowing. Temperatures averaged near normal in southern and eastern Australia and about 2 to 3°C above normal in the west.

ARGENTINA
Total Precipitation (mm)
September 5 - 11, 2021

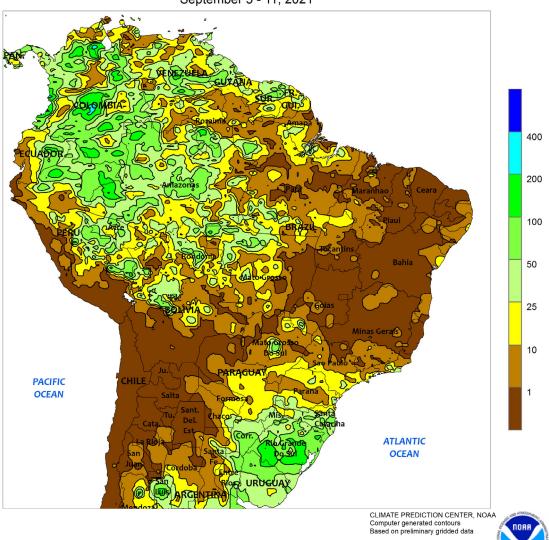


ARGENTINA

For a second week, beneficial rain increased moisture for vegetative winter grains in key farming areas of central Argentina. Rainfall totaled 25 to 100 mm across La Pampa and Buenos Aires, with similar amounts extending northeastward through Corrientes and Uruguay. Lighter amounts (less than 10 mm) were recorded over northwestern agricultural districts, including much of Cordoba and Santa Fe. Weekly average temperatures ranged from near to as much as 4°C above normal throughout the aforementioned

areas, with no widespread freeze and daytime highs reaching the upper 20s and lower 30s (degrees C). As seasonal warming continues, the drier northwestern farming areas will need moisture as winter grains advance through reproduction and summer crop planting increases. According to the government of Argentina, sunflowers were 11 percent planted as of September 9, lagging last year's pace by 3 points; to date, little to no planting has been recorded in Buenos Aires, La Pampa, or Cordoba.

BRAZIL
Total Precipitation (mm)
September 5 - 11, 2021

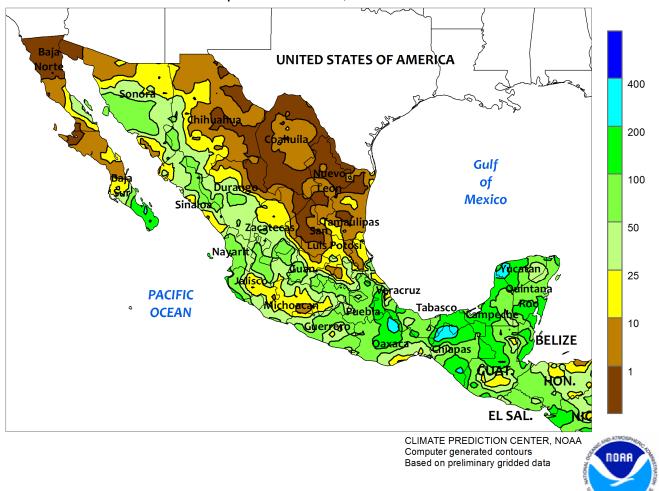


BRAZIL

Showers provided timely moisture for reproductive wheat in southern Brazil. Rainfall totaled more than 25 mm over most of Rio Grande do Sul, with amounts of 5 to 25 mm in Parana. Mild weather prevailed in the wetter southern locations, but daytime highs occasionally reached the middle 30s (degrees C) in northern Parana, maintaining high moisture demands of reproductive to filling wheat. According to the government of Rio Grande do Sul, 52

percent of the wheat crop had reached flowering as of September 9. Farther north, light showers (5-25 mm) were scattered throughout the Center West region (notably Mato Grosso and northern Mato Grosso do Sul), helping to condition fields for soybean planting, which will become more widespread upon the arrival of seasonal rainfall. According to the government of Mato Grosso, cotton was 99 percent harvested as of September 10.



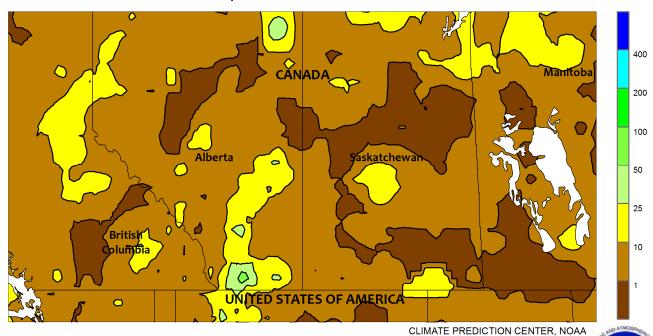


MEXICO

Locally heavy showers overspread the southeast, benefiting immature summer crops and helping to recharge reservoirs ahead of the winter cropping season. Rainfall totaled 50 to 100 mm – locally much higher – from western sections of the southern plateau (including portions of Jalisco) eastward through the Yucatan Peninsula. The highest amounts (locally more than 200 mm) were concentrated in and around southern Veracruz

and in parts of Tabasco and Chiapas. Farther west, monsoon showers continued in northwestern watersheds, although amounts diminished over northern sections of Sonora and Chihuahua compared with prior weeks. Meanwhile, dry, warmer-than-normal weather (weekly temperatures averaging 1-2°C above normal, with highs approaching 40°C) maintained high crop irrigation requirements and water demands of livestock.

CANADIAN PRAIRIES Total Precipitation (mm) September 5 - 11, 2021

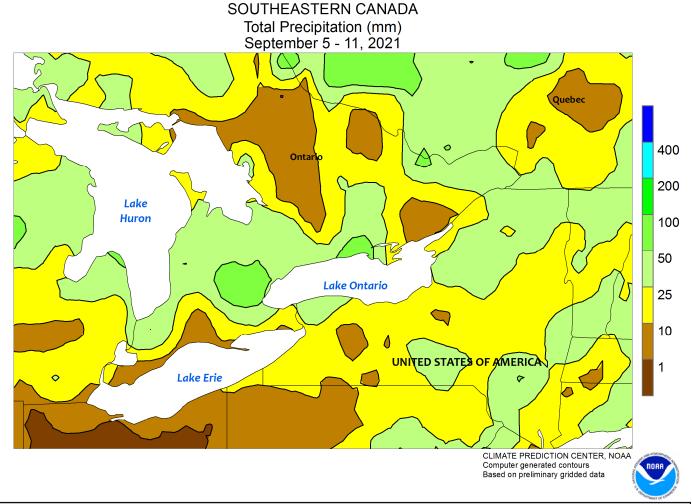


Computer generated contours Based on preliminary gridded data

CANADIAN PRAIRIES

Warm, dry weather dominated the Prairies for much of the week, supporting fieldwork and favoring rapid development and drydown of the remaining crops. Weekly temperatures averaged 1 to 4°C above normal in nearly all agricultural districts, with highest daytime temperatures ranging from the lower 20s (degrees C) in Alberta's northern farming areas to the lower 30s along

the southern border. Showers were generally scattered and light until moderate rain (5-25 mm) moved into Alberta at week's end, slowing fieldwork after an extended period of favorable dryness. According to provincial reports released during the final days of September, harvesting of all crops reached 45 percent in Alberta; 56 percent in Saskatchewan; and 50 percent in Manitoba.



SOUTHEASTERN CANADA

Moderate to heavy showers provided timely moisture for germination and establishment of winter wheat. Rainfall totaled 25 to 75 mm over large sections of southern Ontario, notably the region between Lake Huron and Lake Ontario, with most other locations recording at least 10 mm. Somewhat lighter rain also fell in Quebec, although outlying agricultural

districts recorded more than 25 mm. Weekly temperatures generally averaged within 1°C of normal, with highest daytime temperatures ranging from the lower 20s (degrees C) in Quebec to the upper 20s in Ontario's southern-most farming areas. No freezes were reported, although nighttime lows dropped below 5°C in a few of the more northerly locations.

U.S. Crop Production Highlights

The following information was released by USDA's Agricultural Statistics Board on September 10, 2021. Forecasts refer to September 1.

Corn production for grain is forecast at 15.0 billion bushels, up 2 percent from the previous forecast and up 6 percent from 2020. U.S. yields are expected to average 176.3 bushels per harvested acre, up 1.7 bushels from the previous forecast and up 4.3 bushels from last year. Acreage updates were made in several states based on a thorough review of all available data. Total planted area, at 93.3 million acres, is up 1 percent from the previous estimate and up 3 percent from the previous year. Area harvested for grain is forecast at 85.1 million acres, up 1 percent from the previous forecast and up 3 percent from the previous year.

Soybean production for beans is forecast at 4.37 billion bushels, up 1 percent from the previous forecast and up 6 percent from 2020. U.S. yields are expected to average 50.6 bushels per harvested acre, up 0.6 bushel from the previous forecast and up 0.4 bushel from 2020. Total planted area, at 87.2 million acres, is down less than 1 percent from the previous estimate but up 5 percent from the previous year. U.S. area harvested for beans is forecast at 86.4 million acres, down less than 1 percent from the previous forecast but up 5 percent from 2020. Acreage updates were made in several states based on a thorough review of all available data.

All cotton production is forecast at 18.5 million 480-pound bales, up 7 percent from the previous forecast and up 27 percent from 2020. U.S. yields are expected to average 895 pounds per harvested acre, up 95 pounds from the previous forecast and up 48 pounds from 2020. Upland cotton production is forecast at 18.2 million 480-pound bales, up 8 percent from the previous forecast and up 29 percent from 2020. Pima cotton production is forecast at 335,000 bales, down 10 percent from the previous forecast and down 39 percent from 2020. All cotton planted area totaled 11.2 million acres, down 5 percent from the previous forecast and down 7 percent from 2020. All cotton area harvested is forecast at 9.92 million acres, down 4 percent from the previous forecast but up 20 percent from 2020. Acreage updates were made in several states based on a thorough review of all available data.

California Navel orange production for the 2021-2022 season is forecast at 1.40 million tons (35.0 million boxes), down 14 percent from last season. This initial forecast is based on an objective measurement survey conducted in California's Central Valley from mid-June to the beginning of September. The objective measurement survey indicated that fruit set was down 25 percent from last year and that the average fruit size was down 2 percent. Harvest is expected to begin in October.

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Internet URL: <u>www.usda.gov/oce/weather-drought-monitor</u> E-mail address: <u>brad.rippey@usda.gov</u>

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