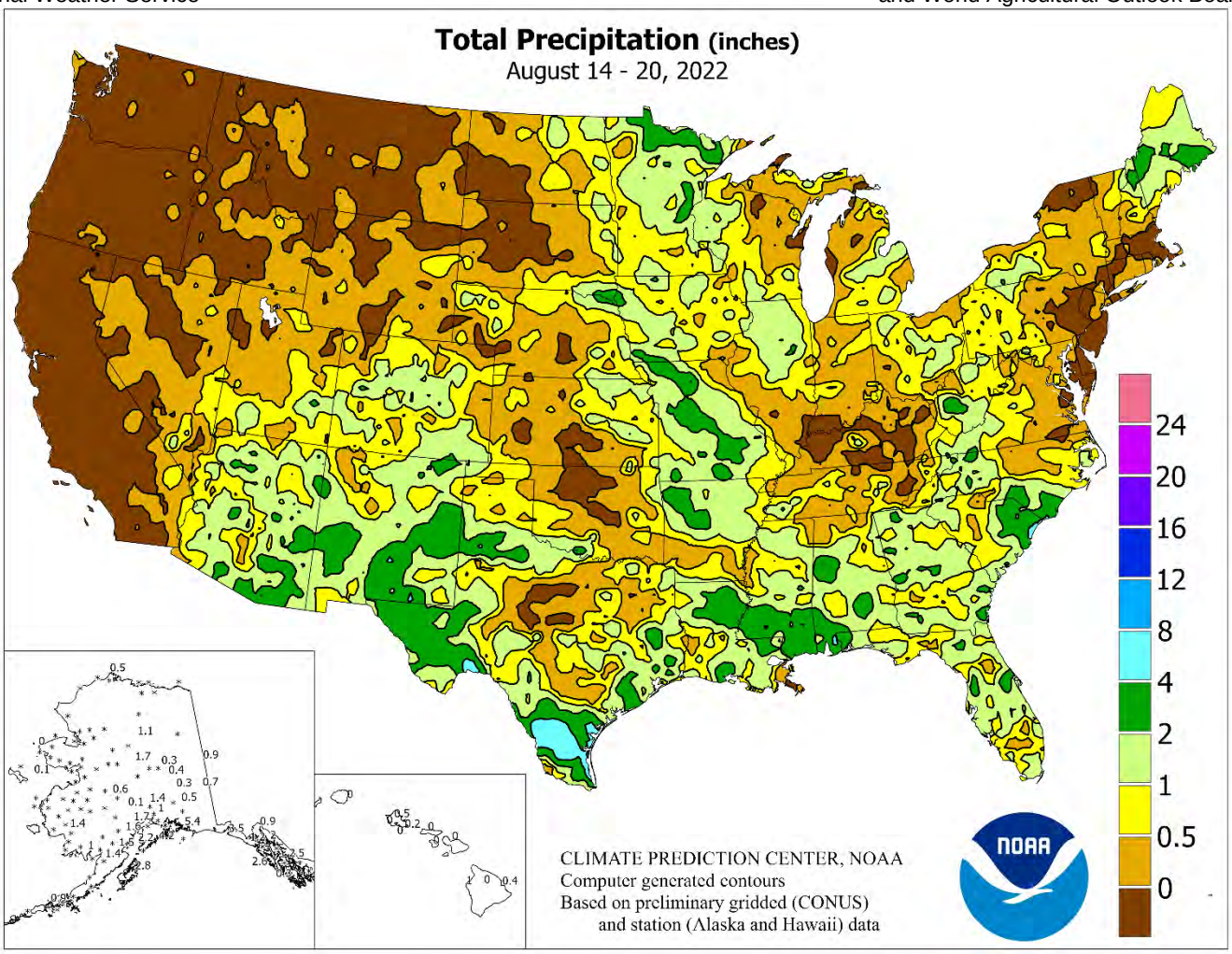
Volume 109, No. 34 www.usda.gov/oce/weather-drought-monitor August 23, 2022

WEEKLY WEATHER AND CROP BULLETIN

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

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



HIGHLIGHTS

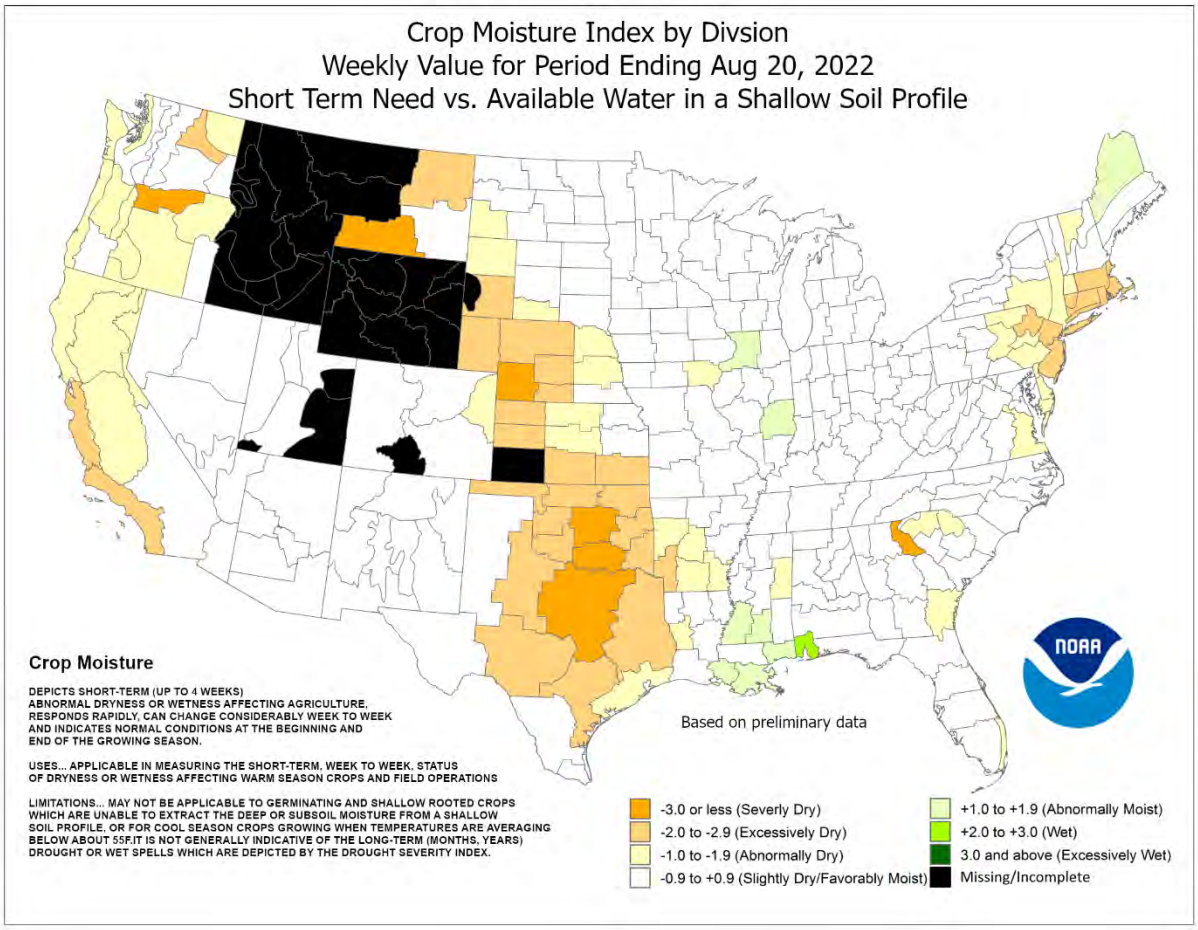
August 14 – 20, 2022

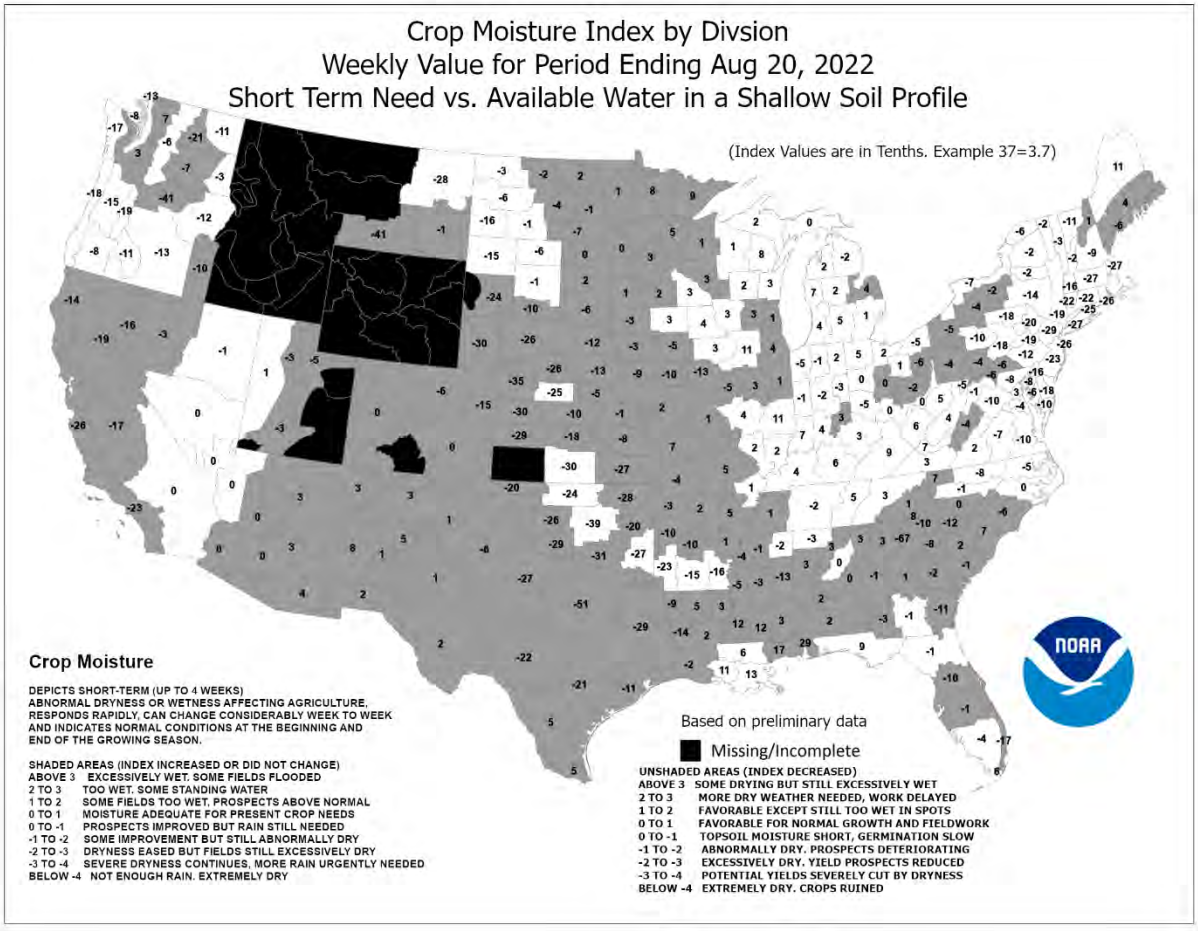
Highlights provided by USDA/WAOB

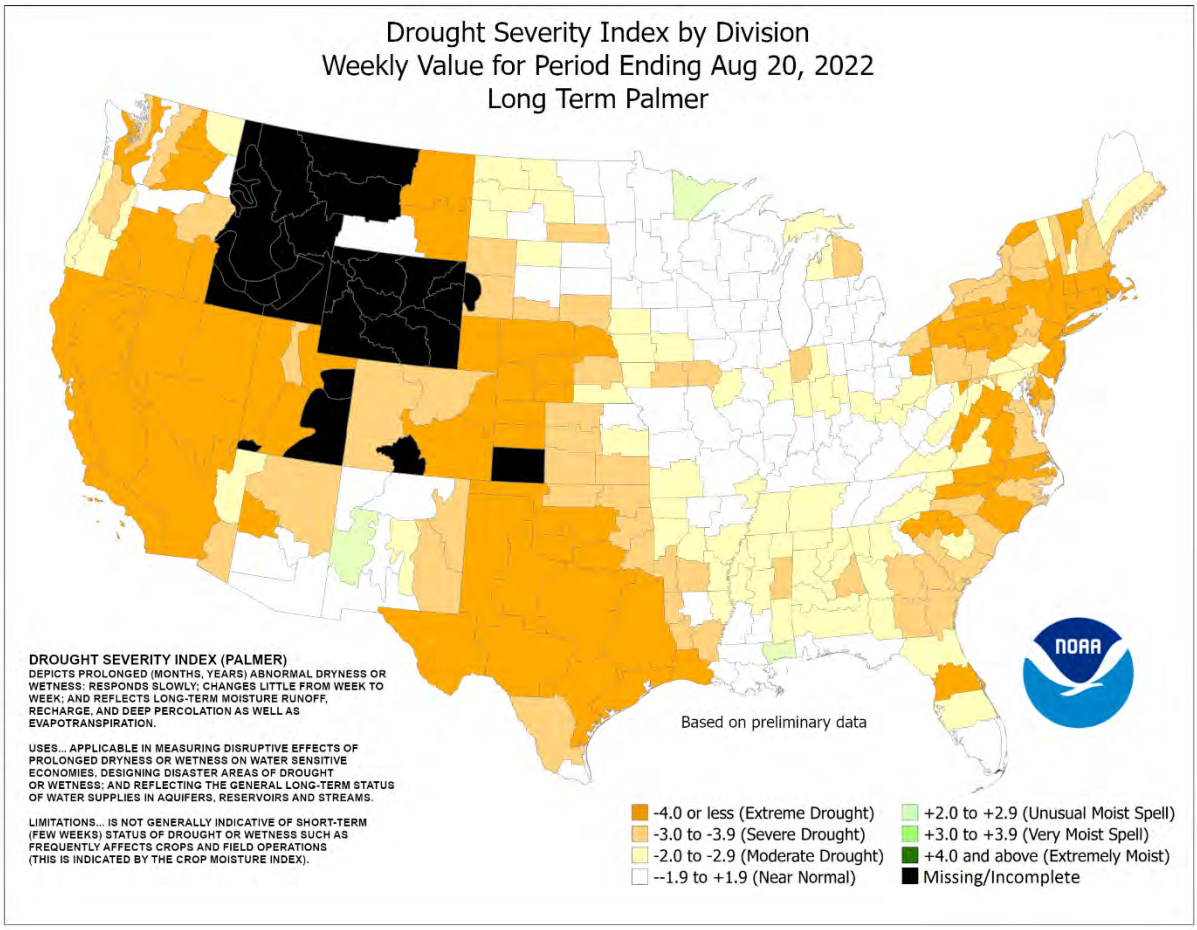
Tropical showers spread from **southern and western Texas into the Southwest**, easing drought but sparking local flooding. Rainfall totals of 4 to 6 inches or more were common as a low-pressure system—which ran out of open water before becoming a tropical cyclone—moved ashore across **southern Texas** early in the week. Later, locally intense downpours struck portions of the **Four Corners States**. Meanwhile, mid- to late-week showers across the **central and southern Plains** signaled the end of a hot, dry spell. Rain on the **southern Plains** arrived

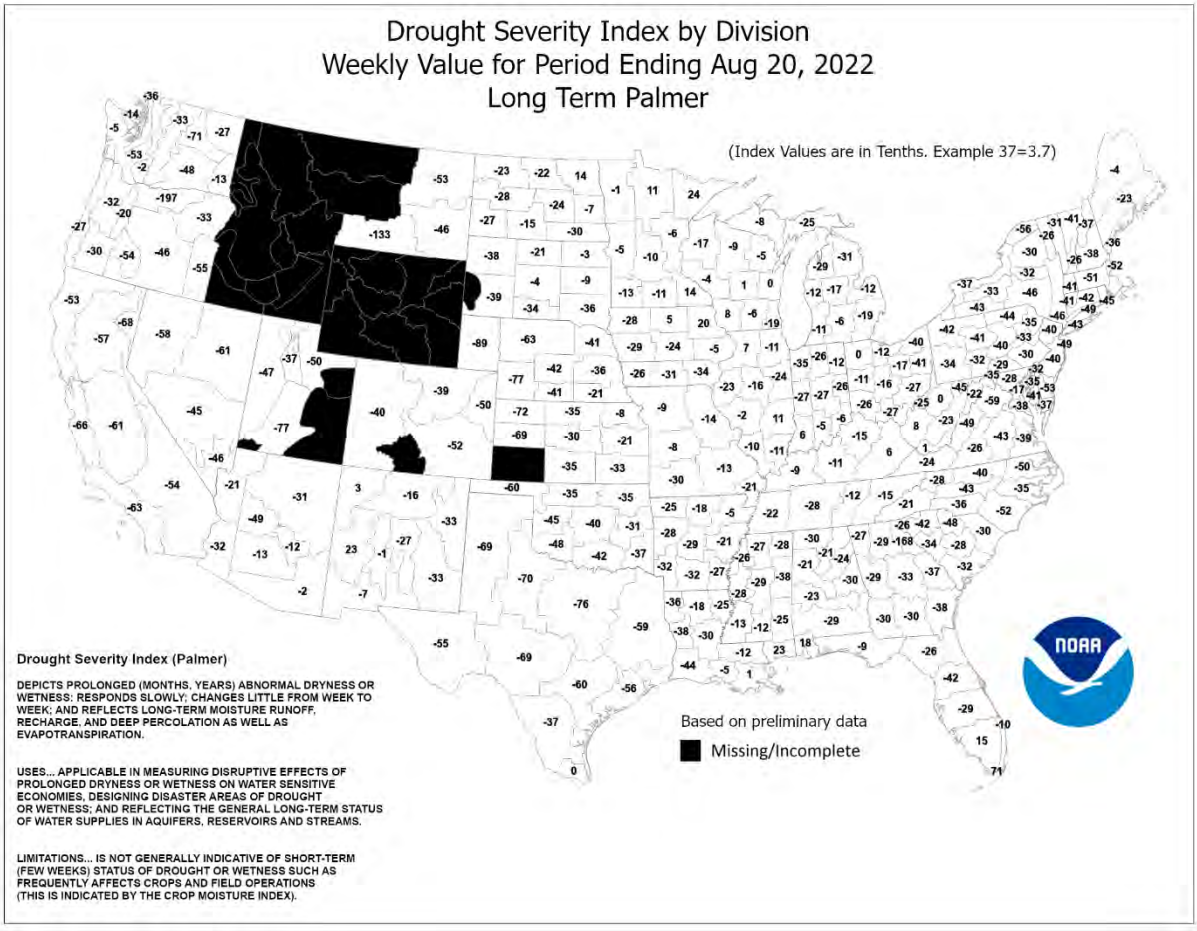
(Continued on page 5)

Contents


Crop Moisture Index by Divsion
Weekly Value for Period Ending Aug 20, 2022
Short Term Need vs. Available Water in a Shallow Soil Profile
Crop Moisture
DEPICTS SHORT-TERM (UP TO 4 WEEKS) ABNORMAL DRYNESS OR WETNESS AFFECTING AGRICULTURE, RESPONDS RAPIDLY, CAN CHANGE CONSIDERABLY WEEK TO WEEK AND INDICATES NORMAL CONDITIONS AT THE BEGINNING AND END OF THE GROWING SEASON.
USES... APPLICABLE IN MEASURING THE SHORT-TERM, WEEK TO WEEK, STATUS OF DRYNESS OR WETNESS AFFECTING WARM SEASON CROPS AND FIELD OPERATIONS
LIMITATIONS... MAY NOT BE APPLICABLE TO GERMINATING AND SHALLOW ROOTED CROPS WHICH ARE UNABLE TO EXTRACT THE DEEP OR SUBSOIL MOISTURE FROM A SHALLOW SOIL PROFILE, OR FOR COOL SEASON CROPS GROWING WHEN TEMPERATURES ARE AVERAGING BELOW ABOUT 55F.IT IS NOT GENERALLY INDICATIVE OF THE LONG-TERM (MONTHS, YEARS) DROUGHT OR WET SPELLS WHICH ARE DEPICTED BY THE DROUGHT SEVERITY INDEX.
Based on preliminary data
-3.0 or less (Severly Dry)
-2.0 to -2.9 (Excessively Dry)
-1.0 to -1.9 (Abnormally Dry)
-0.9 to +0.9 (Slightly Dry/Favorably Moist)
+1.0 to +1.9 (Abnormally Moist)
+2.0 to +3.0 (Wet)
3.0 and above (Excessively Wet)
Missing/Incomplete
NOAA


Crop Moisture Index by Divsion
Weekly Value for Period Ending Aug 20, 2022
Short Term Need vs. Available Water in a Shallow Soil Profile
(Index Values are in Tenths. Example 37=3.7)
Crop Moisture
DEPICTS SHORT-TERM (UP TO 4 WEEKS) ABNORMAL DRYNESS OR WETNESS AFFECTING AGRICULTURE, RESPONDS RAPIDLY, CAN CHANGE CONSIDERABLY WEEK TO WEEK AND INDICATES NORMAL CONDITIONS AT THE BEGINNING AND END OF THE GROWING SEASON.
SHADED AREAS (INDEX INCREASED OR DID NOT CHANGE)
ABOVE 3 EXCESSIVELY WET. SOME FIELDS FLOODED
2 TO 3 TOO WET. SOME STANDING WATER
1 TO 2 SOME FIELDS TOO WET. PROSPECTS ABOVE NORMAL
0 TO 1 MOISTURE ADEQUATE FOR PRESENT CROP NEEDS
0 TO -1 PROSPECTS IMPROVED BUT RAIN STILL NEEDED
-1 TO -2 SOME IMPROVEMENT BUT STILL ABNORMALLY DRY
-2 TO -3 DRYNESS EASED BUT FIELDS STILL EXCESSIVELY DRY
-3 TO -4 SEVERE DRYNESS CONTINUES, MORE RAIN URGENTLY NEEDED
BELOW -4 NOT ENOUGH RAIN. EXTREMELY DRY
Based on preliminary data
Missing/Incomplete
UNSHADED AREAS (INDEX DECREASED)
ABOVE 3 SOME DRYING BUT STILL EXCESSIVELY WET
2 TO 3 MORE DRY WEATHER NEEDED, WORK DELAYED
1 TO 2 FAVORABLE EXCEPT STILL TOO WET IN SPOTS
0 TO 1 FAVORABLE FOR NORMAL GROWTH AND FIELDWORK
0 TO -1 TOPSOIL MOISTURE SHORT, GERMINATION SLOW
-1 TO -2 ABNORMALLY DRY. PROSPECTS DETERIORATING
-2 TO -3 EXCESSIVELY DRY. YIELD PROSPECTS REDUCED
-3 TO -4 POTENTIAL YIELDS SEVERELY CUT BY DRYNESS
BELOW -4 EXTREMELY DRY. CROPS RUINED
NOAA


Drought Severity Index by Division
Weekly Value for Period Ending Aug 20, 2022
Long Term Palmer
DROUGHT SEVERITY INDEX (PALMER)
DEPICTS PROLONGED (MONTHS, YEARS) ABNORMAL DRYNESS OR WETNESS: RESPONDS SLOWLY; CHANGES LITTLE FROM WEEK TO WEEK; AND REFLECTS LONG-TERM MOISTURE RUNOFF, RECHARGE, AND DEEP PERCOLATION AS WELL AS EVAPOTRANSPIRATION.
USES... APPLICABLE IN MEASURING DISRUPTIVE EFFECTS OF PROLONGED DRYNESS OR WETNESS ON WATER SENSITIVE ECONOMIES, DESIGNING DISASTER AREAS OF DROUGHT OR WETNESS; AND REFLECTING THE GENERAL LONG-TERM STATUS OF WATER SUPPLIES IN AQUIFERS, RESERVOIRS AND STREAMS.
LIMITATIONS... IS NOT GENERALLY INDICATIVE OF SHORT-TERM (FEW WEEKS) STATUS OF DROUGHT OR WETNESS SUCH AS FREQUENTLY AFFECTS CROPS AND FIELD OPERATIONS (THIS IS INDICATED BY THE CROP MOISTURE INDEX).
Based on preliminary data
-4.0 or less (Extreme Drought)
-3.0 to -3.9 (Severe Drought)
-2.0 to -2.9 (Moderate Drought)
--1.9 to +1.9 (Near Normal)
+2.0 to +2.9 (Unusual Moist Spell)
+3.0 to +3.9 (Very Moist Spell)
+4.0 and above (Extremely Moist)
Missing/Incomplete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Based on preliminary data
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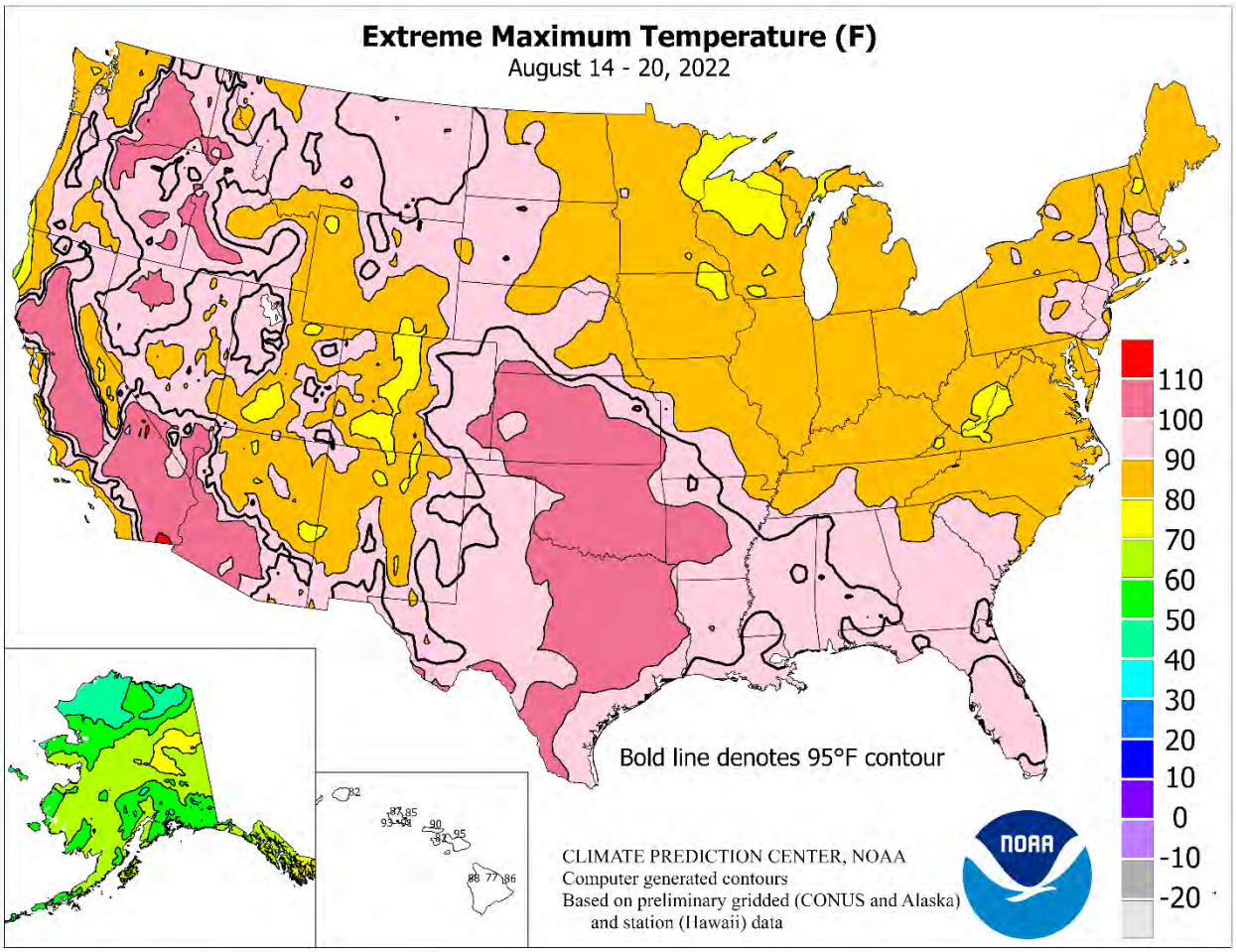
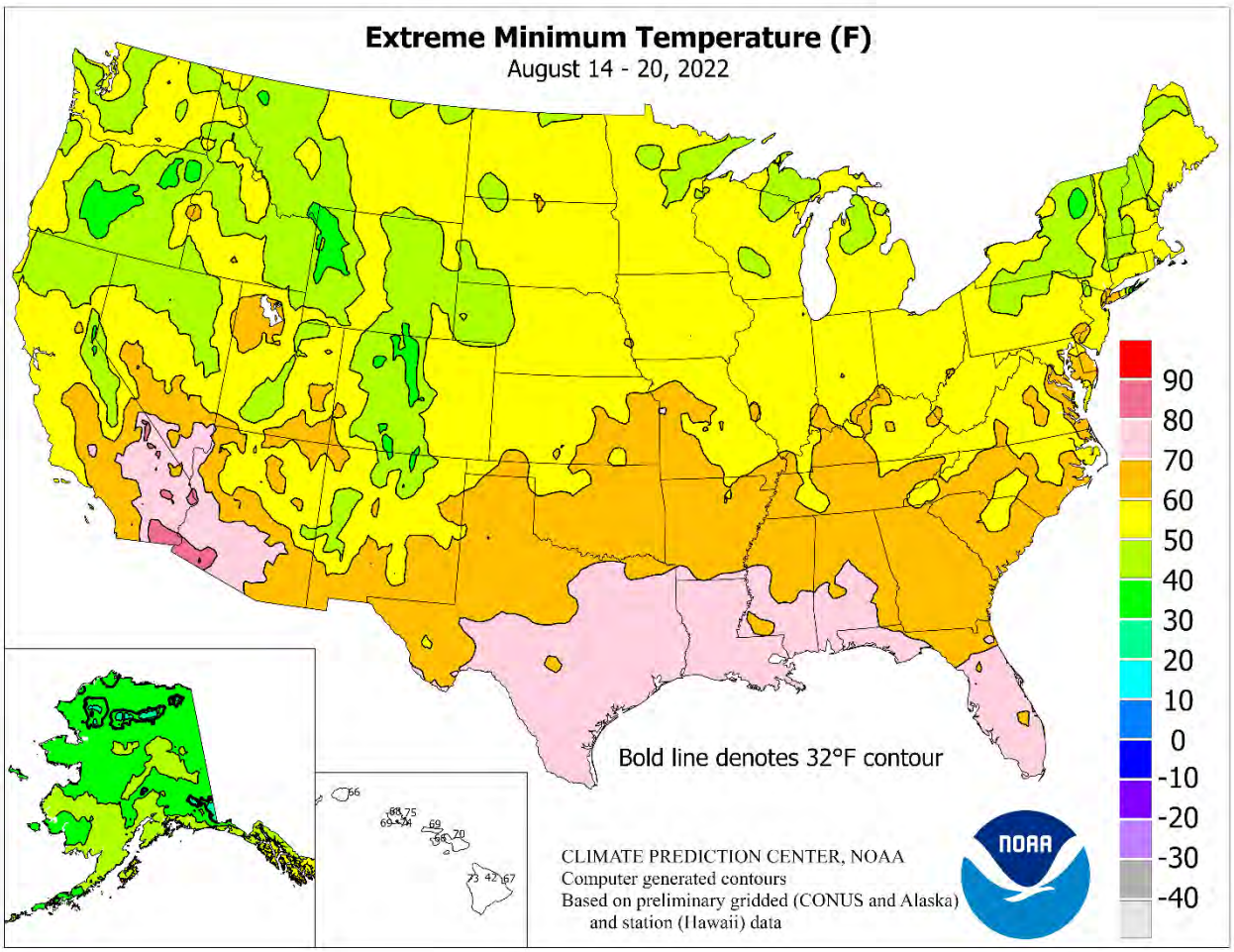
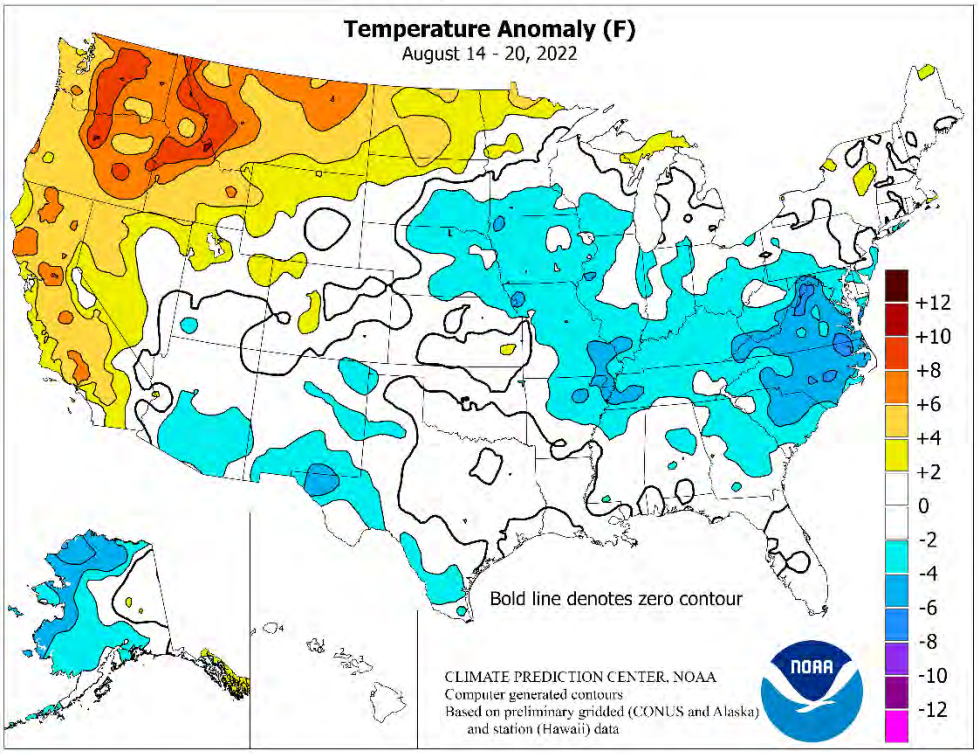

Extreme Maximum Temperature (F)
August 14 - 20, 2022
110
100
90
80
70
60
50
40
30
20
10
0
-10
-20
Bold line denotes 95°F contour
CLIMATE PREDICTION CENTER, NOAA
Computer generated contours
Based on preliminary gridded (CONUS and Alaska)
and station (Hawaii) data
NOAA


Extreme Minimum Temperature (F)
August 14 - 20, 2022
90
80
70
60
50
40
30
20
10
0
-10
-20
-30
-40
Bold line denotes 32°F contour
CLIMATE PREDICTION CENTER, NOAA
Computer generated contours
Based on preliminary gridded (CONUS and Alaska)
and station (Hawaii) data
NOAA

(Continued from front cover)

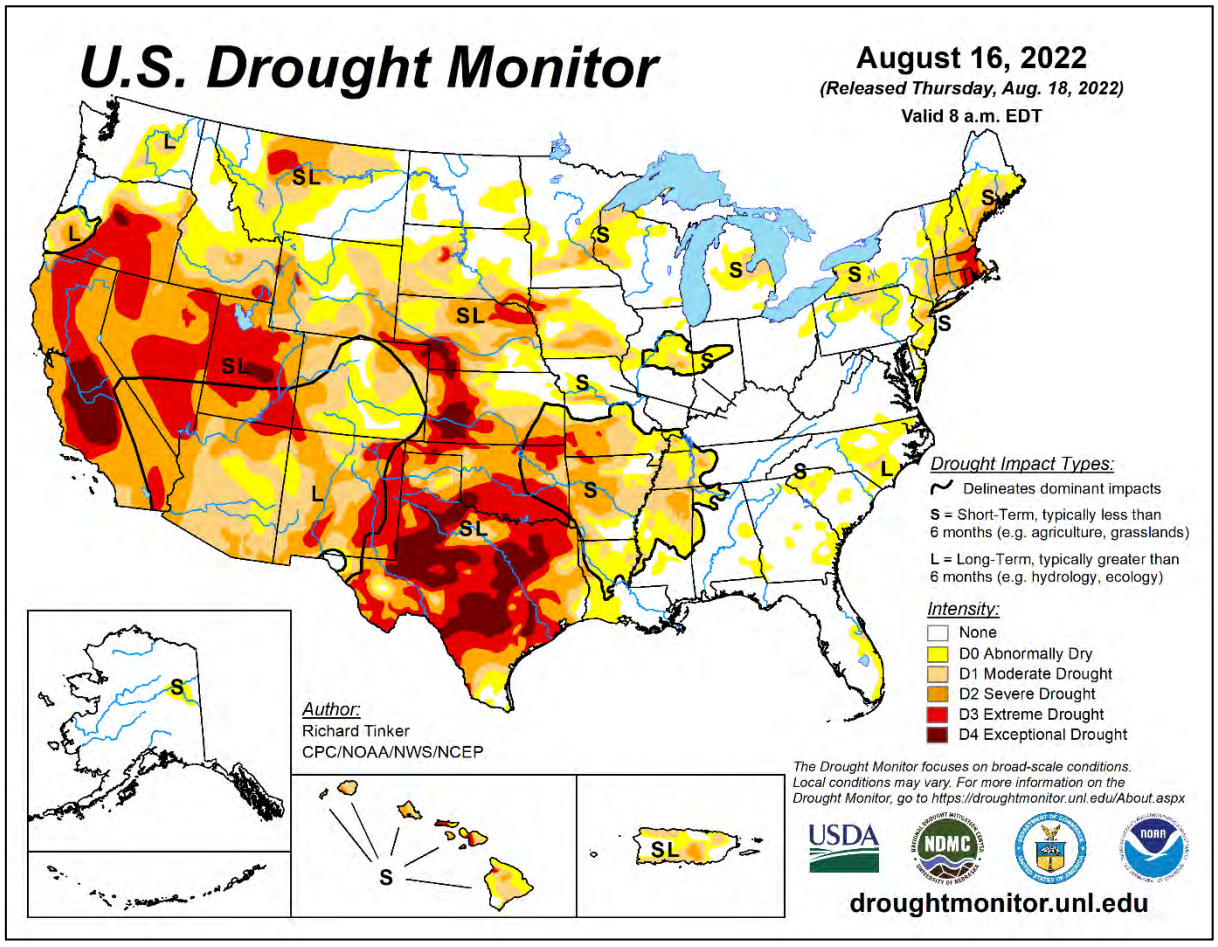
too late for most summer crops but replenished topsoil moisture in advance of winter wheat planting and revived drought-ravaged rangeland and pastures. However, hot, dry weather persisted through week's end in most areas from the **Pacific Coast to the northern Plains**, where temperatures broadly averaged at least 5°F above normal. Readings averaged 10°F above normal in scattered locations across the **interior Northwest** and **northern California**. **Northwestern** heat and dryness favored small grain maturation and harvesting but maintained an elevated threat of wildfires amid isolated lightning strikes. Elsewhere, spotty **Midwestern** showers benefited filling corn and soybeans, while leaving some fields unfavorably dry. Some of the most-needed rain fell in the **western Corn Belt**, which has generally trended hotter and drier than the **eastern Corn Belt**. Much of the **Midwest**, **Southeast**, and **Southwest** reported slightly below-average weekly readings, although temperatures averaged more than 5°F below normal in portions of the **middle Atlantic States**.

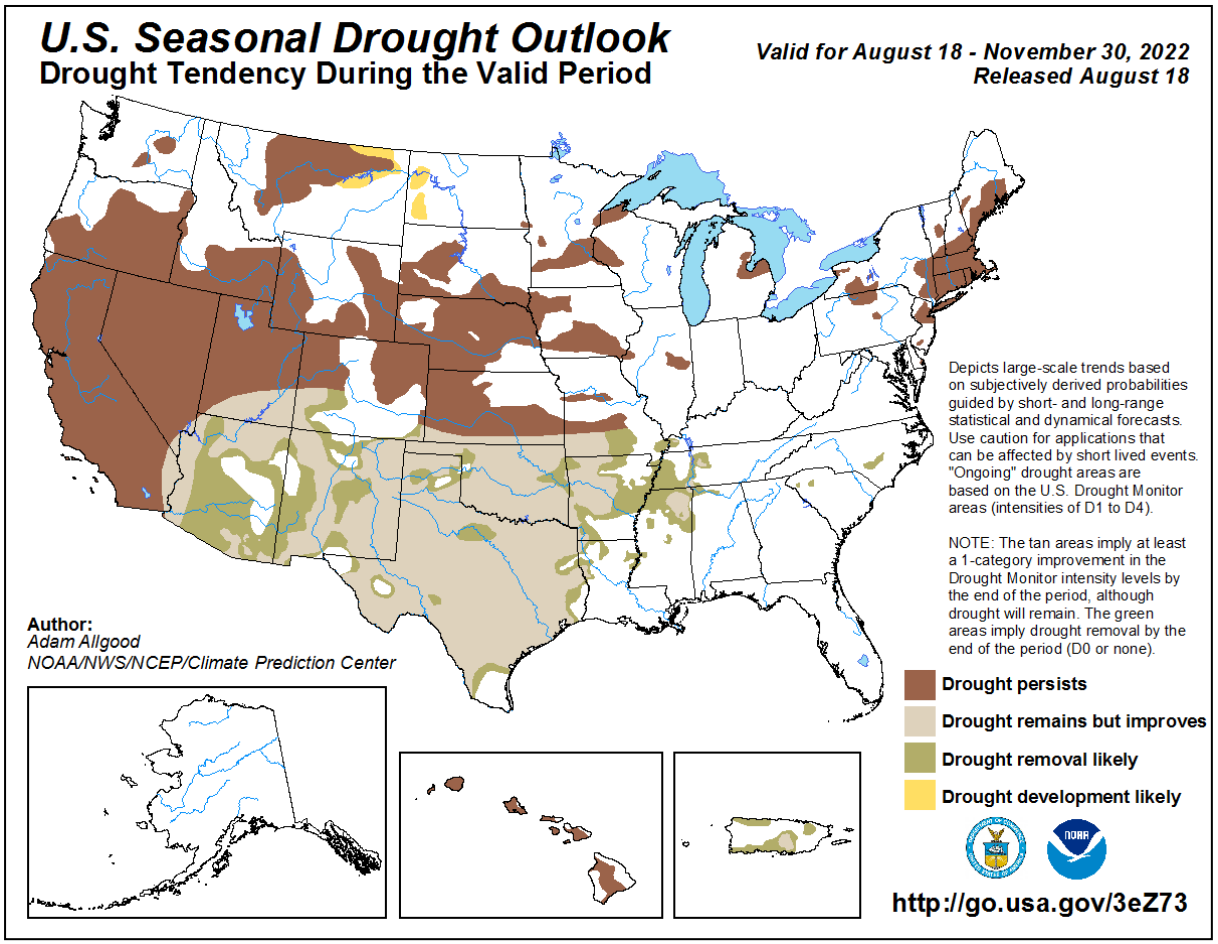


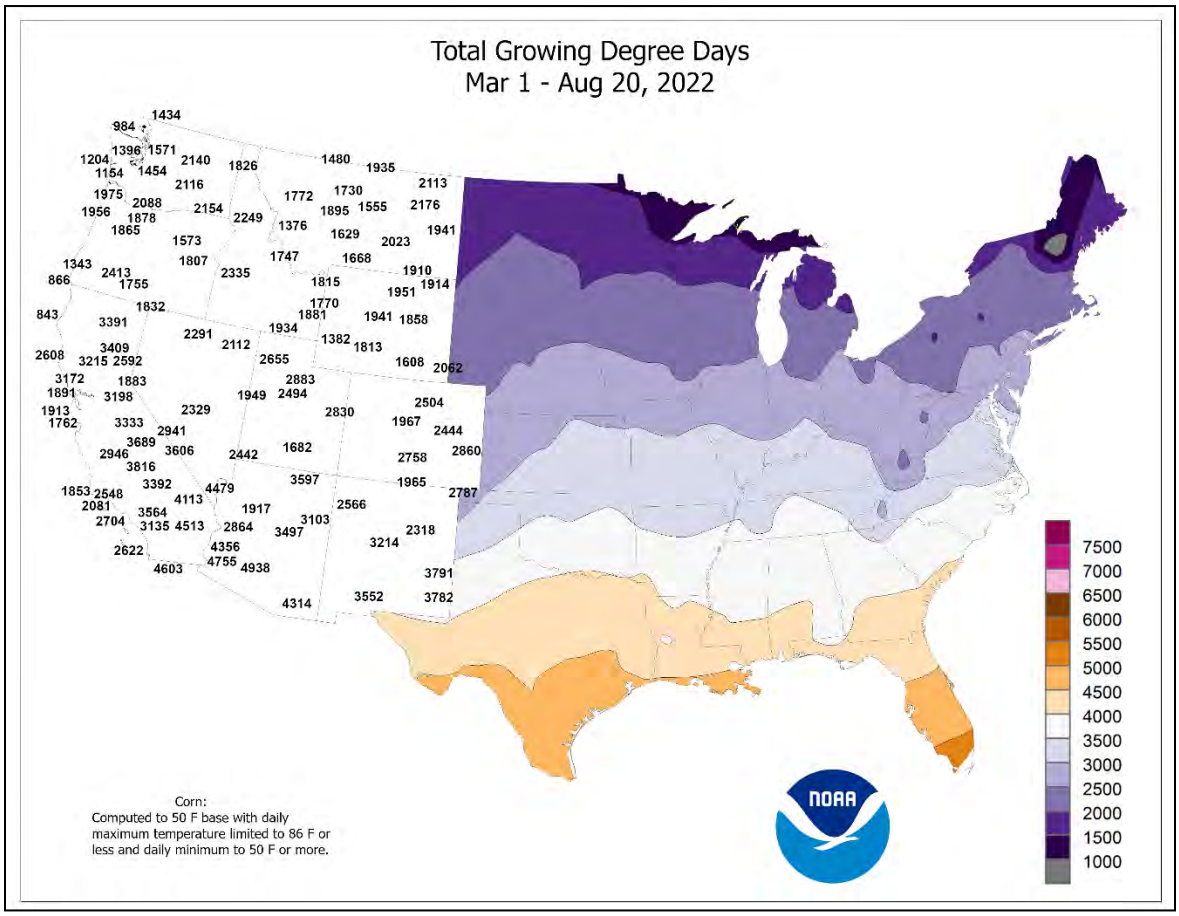
Early in the week, a low-pressure system moved inland across **southern Texas**, drifting generally westward until being absorbed by the **Southwestern** monsoon circulation. Along the **Texas coast**, August 13-15 rainfall reached 6.20 inches in **Corpus Christi** and 3.70 inches in P**ort Isabel**. Farther inland across **southern Texas**, August 14-15 rainfall topped the 4-inch mark in locations such as **Laredo** (7.37 inches), **Cotulla** (4.45 inches), and **Alice** (4.01 inches). For **Laredo**, the 6.82-inch total on the 15th represented the wettest August day on record in that location (previously, 6.29 inches on August 7, 1974) and the wettest calendar day at any time of year since May 13, 1928, when 7.20 inches fell. In **western Texas**, **Terrell County Airport**—near **Dryden**—received 6.27 inches on August 15-16. Meanwhile, periodic downpours dotted the **Southwest**. In **Utah**, 24-hour rainfall totals included 1.20 inches (on August 13-14) in **Kanab** and 0.84 inch (on August 14-15) at **Bryce Canyon Airport**. Late in the week, primarily on August 20, severe flash flooding struck **Moab, UT**, where rainfall totals of an inch or more were common. In other areas, spotty showers resulted in a few daily-record rainfall totals exceeding 2 inches; examples included: 3.54 inches (on August 15) in **Charleston, WV**; 2.86 inches (on August 19) in **North Myrtle Beach, SC**; 2.26 inches (on August 19) in **Sisseton, SD**; 2.19 inches (on August 20) in **Tuscaloosa, AL**; and 2.17 inches (on August 16) in **Vichy-Rolla, MO**. In **Maine**, daily-record totals for August 17 reached 1.97 inches in **Bangor** and 1.29 inches in **Houlton**. In **western Texas**, daily-record amounts included 2.00 inches (on August 20) in **Midland** and 1.41 inches (on August 18) in **Lubbock**. A later **Texas** deluge, which developed on August 21 and affected **Dallas-Fort Worth**, will be covered in next week's summary.

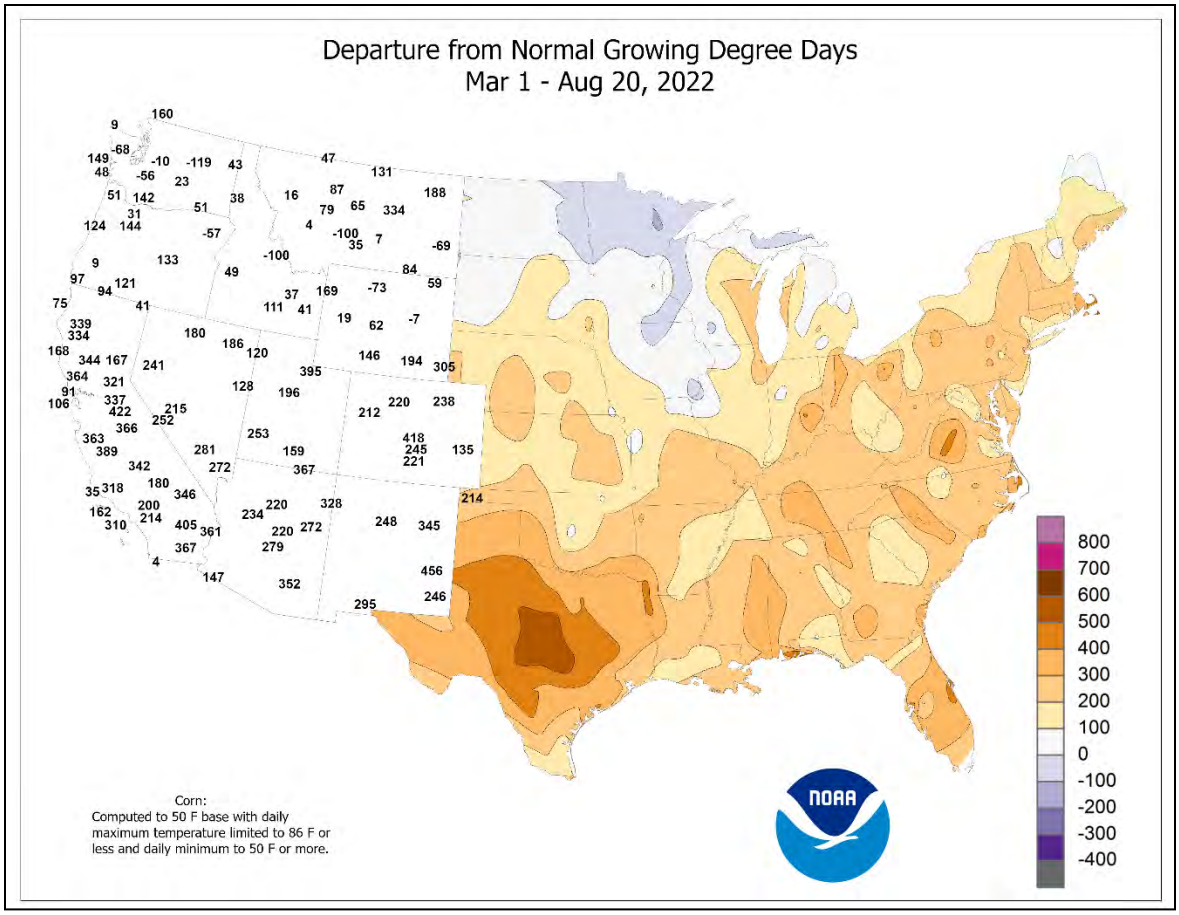
In mid-August, heat lingered across the **southern Plains** and the **mid-South**. With a daily-record high of 104°F on August 15, **Little Rock, AR**, experienced its hottest day since July 22, 2016. Hot weather continued for the remainder of the week in **Florida**, where daily-record highs soared to 98°F in **Fort Myers** (on August 20) and **Vero Beach** (on August 17). **Miami, FL**, posted consecutive daily-record highs of 96°F on August 17 and 18. In contrast, cool, damp weather settled across the **mid-Atlantic** and **Ohio Valley**. Temperatures failed to top the 70-degree mark in locations such as **Columbus, OH** (high of 70°F on August 14), and **Roanoke, VA** (69°F on August 15). Another batch of cool air held the August 16 maximum temperature in **Hastings, NE**, to 65°F—the lowest August high in that location since August 11, 1997. Farther west, however, persistently hot weather settled across much of **California**, the **Great Basin**, and the **Northwest**. In **western Montana**, **Missoula** tallied a trio of triple-digit, daily-record highs (100, 100, and 101°F) from August 17-19. August 17 featured daily-record highs of 103°F in **Boise, ID**; **Burns, OR**; and **Winnemucca, NV**. **Redding, CA**, collected daily-record highs of 110°F on August 16, 17, and 20. In **Washington**, record-setting highs for August 18 included 108°F in **Ephrata** and 104°F in **Omak**. **Salt Lake City, UT**, reached or exceeded the 100-degree mark each day from August 16-18, including a daily-record high of 101°F on the 18th. Late in the week, warmth overspread the **Northeast**, where **Portland, ME**, tallied a daily-record high (90°F) for August 19.

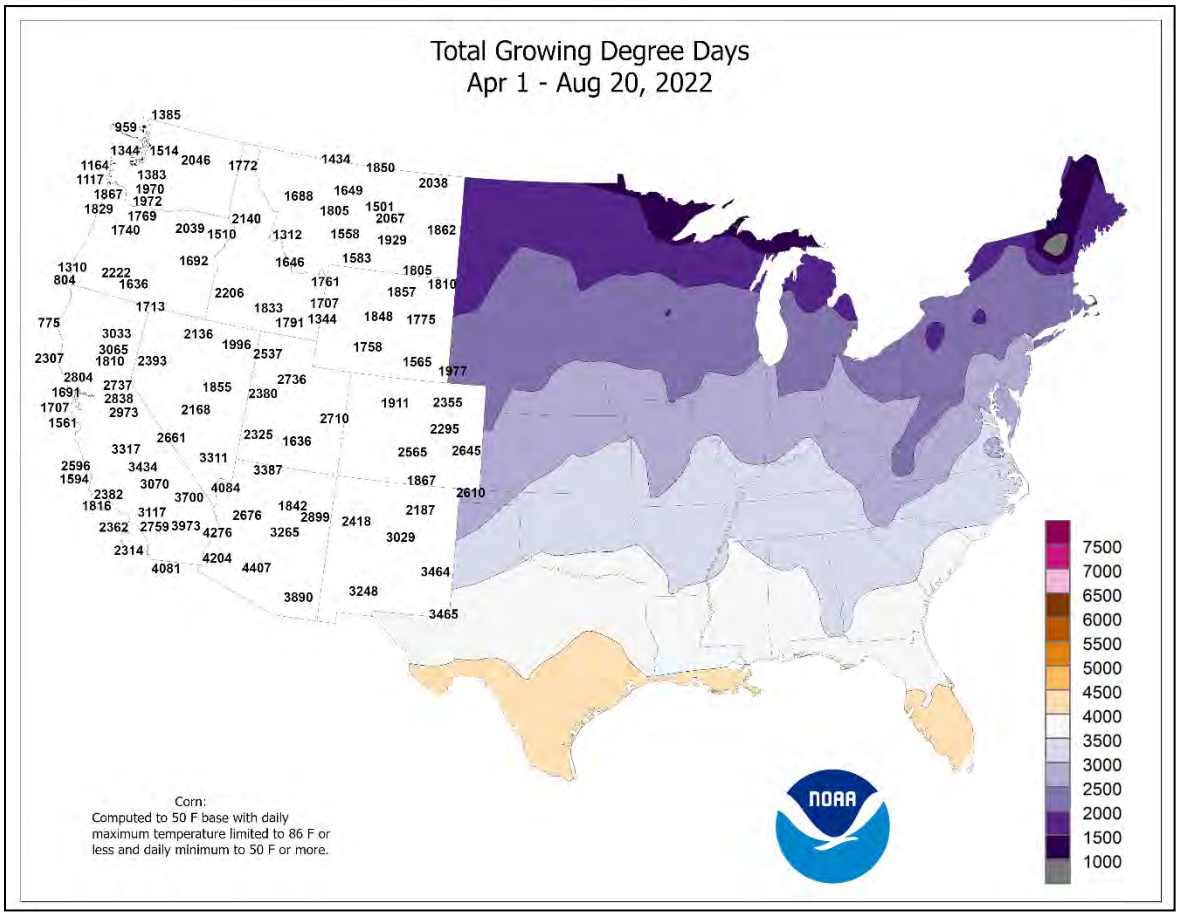
Widespread precipitation continued across **Alaska**, vanquishing nearly all remaining dryness from earlier in the summer. On August 16, **Alaskan** daily-record rainfall totaled 1.90 inches in **Kodiak** and 1.01 inches in **Bethel**. In addition, near- or below-normal temperatures covered much of the state, except for patchy warmth in **eastern and southeastern Alaska**. In the **Aleutians**, **Cold Bay** reported a monthly record-tying low (32°F on August 18) and its earliest first freeze on record. The only other time **Cold Bay** dipped to 32°F before the start of meteorological autumn was August 28, 1999. In **southern Alaska**, **Yakutat's** month-to-date rainfall (through the 20th) climbed to 10.44 inches, aided by a 4.12-inch total from August 13-17. Farther south, mostly dry weather prevailed in **Hawaii**. With dry air in place, there were significant temperature fluctuations. In fact, August 16 and 17 featured consecutive daily-record lows (66°F both days) in **Lihue, Kauai**, and daily-record highs (95 and 93°F, respectively) in **Kahului, Maui**. Through August 20, month-to-date rainfall at the state's major airport observation sites ranged from 0.02 inch (4 percent of normal) in **Honolulu, Oahu**, to 3.92 inches (53 percent) in **Hilo**, on the **Big Island**.

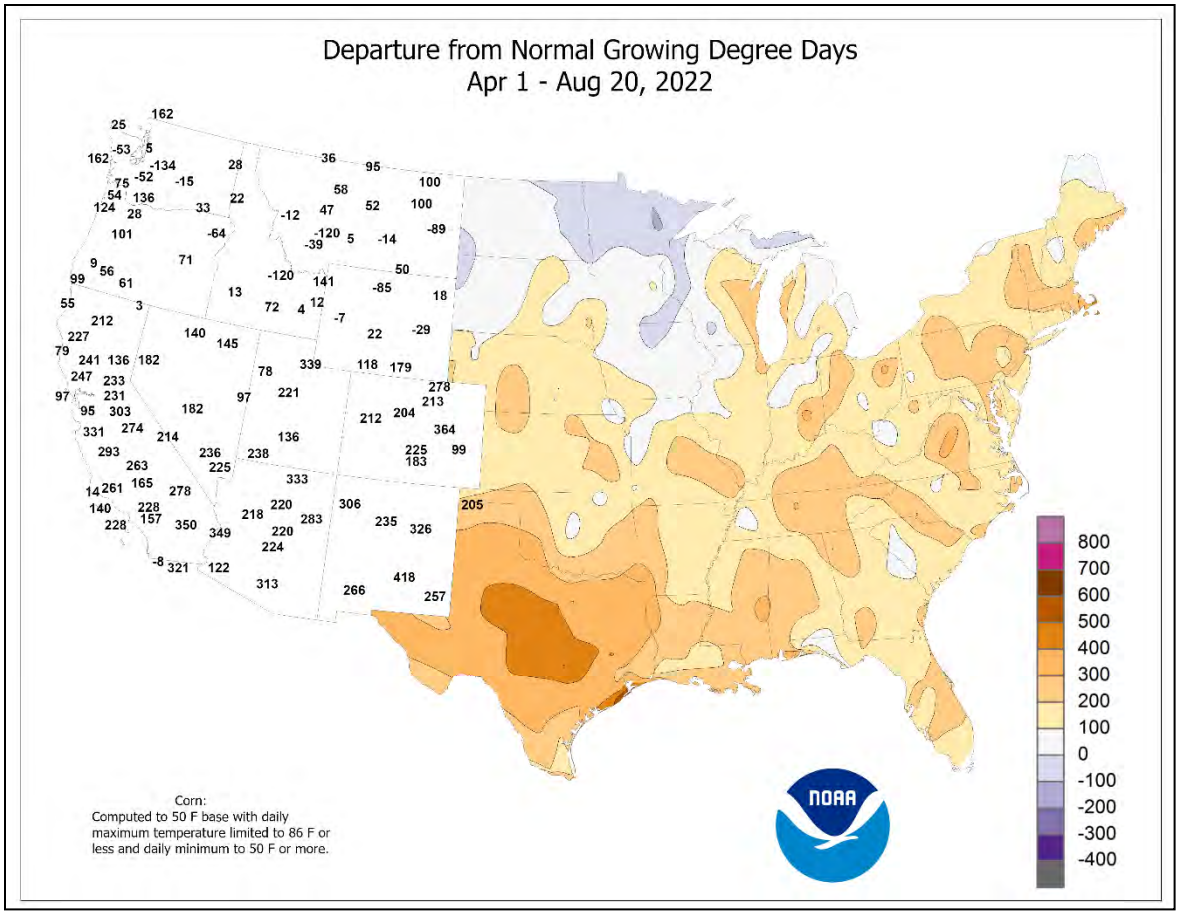

U.S. Drought Monitor
August 16, 2022
(Released Thursday, Aug. 18, 2022)
Valid 8 a.m. EDT
Drought Impact Types:
Delineates dominant impacts
S = Short-Term, typically less than 6 months (e.g. agriculture, grasslands)
L = Long-Term, typically greater than 6 months (e.g. hydrology, ecology)
Intensity:
None
D0 Abnormally Dry
D1 Moderate Drought
D2 Severe Drought
D3 Extreme Drought
D4 Exceptional Drought
Author:
Richard Tinker
CPC/NOAA/NWS/NCEP
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to https://droughtmonitor.unl.edu/About.aspx
USDA
NDMC
NOAA
droughtmonitor.unl.edu


U.S. Seasonal Drought Outlook
Drought Tendency During the Valid Period
Valid for August 18 - November 30, 2022
Released August 18
Author:
Adam Allgood
NOAA/NWS/NCEP/Climate Prediction Center
Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to D4).
NOTE: The tan areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period, although drought will remain. The green areas imply drought removal by the end of the period (D0 or none).
Drought persists
Drought remains but improves
Drought removal likely
Drought development likely
http://go.usa.gov/3eZ73


Total Growing Degree Days
Mar 1 - Aug 20, 2022
Corn:
Computed to 50 F base with daily maximum temperature limited to 86 F or less and daily minimum to 50 F or more.
NOAA
7500
7000
6500
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
1000


Departure from Normal Growing Degree Days
Mar 1 - Aug 20, 2022
Corn:
Computed to 50 F base with daily maximum temperature limited to 86 F or less and daily minimum to 50 F or more.
NOAA
800
700
600
500
400
300
200
100
0
-100
-200
-300
-400


Total Growing Degree Days
Apr 1 - Aug 20, 2022
7500
7000
6500
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
1000
Corn:
Computed to 50 F base with daily maximum temperature limited to 86 F or less and daily minimum to 50 F or more.
NOAA


Departure from Normal Growing Degree Days
Apr 1 - Aug 20, 2022
800
700
600
500
400
300
200
100
0
-100
-200
-300
-400
Corn:
Computed to 50 F base with daily maximum temperature limited to 86 F or less and daily minimum to 50 F or more.
NOAA

National Weather Data for Selected Cities

Weather Data for the Week Ending August 20, 2022

Data Provided by Climate Prediction Center

STATES AND STATIONS		TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY PERCENT		NUMBER OF DAYS TEMP. °F		NUMBER OF DAYS PRECIP	
		AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE JUN 1	PCT. NORMAL SINCE JUN 1	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AK	ANCHORAGE	58	51	61	49	54	-3	1.69	0.92	0.67	9.61	200	14.66	181	99	78	0	0	7	1
	BARROW	38	34	43	30	36	-3	0.54	0.30	0.20	2.88	139	9.05	313	94	83	0	1	4	0
	FAIRBANKS	69	52	76	49	60	4	0.32	-0.09	0.19	2.33	48	4.48	63	85	42	0	0	3	0
	JUNEAU	65	53	71	51	59	3	2.04	0.76	1.03	14.59	130	48.67	158	96	72	0	0	4	2
	KODIAK	60	54	63	52	57	2	2.78	1.78	1.21	11.61	85	45.74	101	94	73	0	0	5	3
	NOME	57	42	68	36	50	-1	0.11	-0.63	0.08	4.94	94	7.65	80	83	54	0	0	2	0
AL	BIRMINGHAM	86	71	93	69	78	-3	0.30	-0.56	0.15	13.25	111	37.92	105	93	56	2	0	3	0
	HUNTSVILLE	88	68	94	65	78	-3	0.10	-0.71	0.08	5.57	51	36.90	104	96	52	3	0	2	0
	MOBILE	91	74	97	74	83	1	0.30	-1.28	0.20	15.80	87	39.50	87	95	58	5	0	3	0
	MONTGOMERY	89	73	96	71	81	-1	0.90	0.04	0.51	10.45	88	35.32	100	94	57	4	0	4	1
AR	FORT SMITH	94	70	104	67	82	0	0.62	0.09	0.60	11.97	129	34.24	120	86	41	5	0	2	1
	LITTLE ROCK	92	70	104	67	81	-2	1.06	0.52	1.06	8.57	100	34.50	113	87	47	4	0	1	1
AZ	FLAGSTAFF	76	55	80	51	66	1	3.20	2.51	1.56	7.03	138	10.05	76	96	50	0	0	5	4
	PHOENIX	102	81	106	78	92	-2	0.09	-0.14	0.04	1.31	74	1.87	36	68	29	7	0	3	0
	PRESCOTT	83	61	86	59	72	-2	1.16	0.55	0.72	5.11	118	6.56	73	94	46	0	0	4	1
	TUCSON	95	75	102	73	85	-1	0.34	-0.19	0.26	2.31	56	2.98	40	79	38	5	0	3	0
CA	BAKERSFIELD	104	75	107	72	89	7	0.00	-0.01	0.00	0.01	10	1.85	41	38	12	7	0	0	0
	EUREKA	63	55	68	53	59	0	0.00	-0.09	0.00	3.14	269	14.04	59	97	88	0	0	0	0
	FRESNO	105	74	107	70	90	8	0.00	0.00	0.00	0.04	15	1.08	13	47	11	7	0	0	0
	LOS ANGELES	75	66	79	62	71	1	0.00	-0.01	0.00	0.01	7	1.47	16	86	62	0	0	0	0
	REDDING	107	73	109	64	90	10	0.00	-0.05	0.00	0.84	91	4.89	23	42	9	7	0	0	0
	SACRAMENTO	100	64	106	60	82	7	0.00	-0.01	0.00	0.09	34	2.19	18	74	16	7	0	0	0
	SAN DIEGO	78	69	80	68	74	2	0.00	0.00	0.00	0.00	0	2.48	34	85	63	0	0	0	0
	SAN FRANCISCO	74	57	81	56	66	1	0.00	-0.01	0.00	0.04	28	1.81	13	86	51	0	0	0	0
	STOCKTON	102	63	108	54	83	7	0.00	0.00	0.00	0.06	62	1.60	17	68	14	7	0	0	0
CO	ALAMOSA	78	49	86	46	64	1	1.18	0.88	0.92	4.53	196	7.25	156	96	32	0	0	3	1
	CO SPRINGS	82	58	93	54	70	1	1.54	0.78	1.00	8.15	106	11.63	90	81	35	1	0	4	1
	DENVER INTL	85	60	95	55	72	-1	0.18	-0.18	0.09	1.88	35	7.09	64	81	30	2	0	3	0
	GRAND JUNCTION	89	65	96	61	77	1	0.28	0.06	0.17	1.46	85	3.26	57	76	28	3	0	4	0
	PUEBLO	89	62	100	57	75	2	0.35	-0.19	0.34	3.04	60	8.34	86	79	28	4	0	2	0
CT	BRIDGEPORT	83	64	88	60	73	0	0.36	-0.57	0.36	5.99	61	19.73	71	84	44	0	0	1	0
	HARTFORD	87	59	94	54	73	1	0.01	-0.87	0.01	7.70	68	25.19	86	87	32	2	0	1	0
DC	WASHINGTON	85	68	89	64	76	-2	0.12	-0.52	0.12	11.87	126	29.30	115	86	46	0	0	1	0
DE	WILMINGTON	85	63	89	59	74	-1	0.04	-0.66	0.03	9.95	93	26.32	95	88	40	0	0	2	0
FL	DAYTONA BEACH	92	73	95	73	82	1	1.31	-0.11	1.17	10.06	64	22.82	74	93	54	5	0	2	1
	JACKSONVILLE	91	69	95	64	80	-1	2.29	0.83	1.30	13.09	76	34.22	105	98	54	6	0	3	2
	KEY WEST	91	82	92	80	86	2	0.24	-0.98	0.24	9.64	88	17.38	80	85	66	4	0	1	0
	MIAMI	94	78	96	76	86	2	1.84	-0.21	0.81	22.91	105	41.40	112	90	50	7	0	4	2
	ORLANDO	94	75	96	73	85	2	1.20	-0.37	1.08	14.84	75	29.55	86	93	47	7	0	2	1
	PENSACOLA	91	76	97	75	83	1	1.92	0.44	1.42	25.23	135	46.87	109	96	64	4	0	3	1
	TALLAHASSEE	91	73	96	70	82	0	0.16	-1.51	0.12	26.94	135	46.72	112	99	54	6	0	2	0
	TAMPA	91	79	96	76	85	2	1.10	-0.67	0.63	24.59	131	37.60	121	84	58	5	0	2	1
	WEST PALM BEACH	93	77	96	74	85	2	2.16	0.34	0.71	13.36	70	28.50	75	90	53	7	0	5	3
GA	ATHENS	85	69	90	65	77	-3	0.80	0.03	0.67	11.79	106	29.46	97	95	62	1	0	2	1
	ATLANTA	85	70	91	67	78	-2	1.09	0.25	0.73	14.42	123	35.74	110	91	57	1	0	4	1
	AUGUSTA	87	68	92	62	78	-3	0.81	-0.14	0.46	16.30	136	33.84	115	98	53	2	0	4	0
	COLUMBUS	88	72	93	70	80	-2	1.91	1.09	1.47	8.30	75	32.14	102	96	54	4	0	3	1
	MACON	89	69	93	67	79	-2	2.95	2.08	2.36	16.86	144	34.46	113	97	55	3	0	3	2
	SAVANNAH	90	70	92	67	80	-1	1.05	-0.42	1.03	12.83	81	21.43	67	94	49	4	0	2	1
HI	HILO	85	69	86	67	77	1	0.37	-1.85	0.15	16.59	67	56.65	73	92	60	0	0	6	0
	HONOLULU	89	76	91	74	82	0	0.00	-0.12	0.00	0.28	23	9.04	103	78	48	2	0	0	0
	KAHULUI	92	74	95	70	83	3	0.00	-0.11	0.00	0.14	12	0.79	7	72	42	6	0	0	0
	LIHUE	81	71	82	66	76	-4	0.02	-0.46	0.02	2.22	45	17.89	86	96	71	0	0	1	0
IA	BURLINGTON	80	61	84	53	71	-5	0.26	-0.76	0.15	5.96	52	16.55	64	94	56	0	0	2	0
	CEDAR RAPIDS	79	61	83	54	70	-1	0.18	-0.90	0.11	8.25	66	16.30	68	96	56	0	0	2	0
	DES MOINES	80	64	85	61	72	-3	1.06	0.07	0.54	7.24	59	19.85	78	92	55	0	0	4	1
	DUBUQUE	77	60	81	55	69	-2	0.87	-0.17	0.72	11.60	99	21.83	89	97	66	0	0	2	1
	SIOUX CITY	80	60	87	55	70	-2	1.98	1.24	1.95	5.10	54	10.69	55	99	58	0	0	2	1
	WATERLOO	80	62	85	57	71	0	1.01	-0.01	0.84	13.13	102	25.37	101	92	57	0	0	3	1
ID	BOISE	99	67	103	60	83	8	0.04	-0.02	0.04	1.09	87	5.91	78	45	12	7	0	1	0
	LEWISTON	99	66	105	57	83	8	0.00	-0.17	0.00	3.30	140	9.49	113	48	15	7	0	0	0
	POCATELLO	93	54	97	49	74	5	0.34	0.21	0.34	1.43	71	7.28	92	79	16	6	0	1	0
IL	CHICAGO/O_HARE	81	64	86	61	73	0	0.59	-0.59	0.59	7.56	72	23.18	99	88	47	0	0	1	1
	MOLINE	82	60	84	54	71	-3	1.27	0.18	1.24	10.98	93	23.13	90	94	57	0	0	2	1
	PEORIA	83	62	87	58	73	-1	0.96	0.25	0.73	6.67	71	18.98	80	92	48	0	0	2	1
	ROCKFORD	80	59	84	55	70	-2	1.12	0.02	0.99	14.96	128	26.30	109	93	56	0	0	2	1
	SPRINGFIELD	83	62	85	57	73	-2	1.87	1.17	1.87	12.52	119	23.04	94	90	51	0	0	1	1
IN	EVANSVILLE	85	65	88	62	75	-2	0.02	-0.67	0.02	9.16	95	32.33	108	92	49	0	0	1	0
	FORT WAYNE	80	58	85	54	69	-3	0.41	-0.41	0.39	11.35	105	23.48	91	95	53	0	0	2	0
	INDIANAPOLIS	82	64	85	61	73	-1	0.30	-0.42	0.30	6.17	56	24.32	86	88	47	0	0	1	0
	SOUTH BEND	82	60	88	54	71	-1	0.26	-0.59	0.14	8.81	86	22.43	93	91	48	0	0	2	0
KS	CONCORDIA	88	65	101	59	77	-1	0.67	-0.04	0.41	7.29	72	16.38	81	90	47	3	0	3	0
	DODGE CITY	92	65	103	57	78	0	0.30	-0.30	0.28	5.15	63	8.20	52	81	34	4	0	3	0
	GOODLAND	89	60	101	55	74	0	0.04	-0.56	0.04	4.54	52	9.11	60	86	30	4	0	1	0
	TOPEKA	87	67	96	62	77	-1	0.73	-0.26	0.51	6.69	55	23.17	92	94	51	2	0	2	1

Based on 1981-2010 normals ***** Not Available**

Weather Data for the Week Ending August 20, 2022

STATES AND STATIONS		TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY PERCENT		NUMBER OF DAYS TEMP. °F		NUMBER OF DAYS PRECIP	
		AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE JUN 1	PCT. NORMAL SINCE JUN 1	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
	WICHITA	94	67	103	61	81	0	0.02	-0.85	0.02	4.56	42	23.19	102	83	33	6	0	1	0
KY	LEXINGTON	84	63	89	59	74	-2	0.00	-0.74	0.00	11.29	99	35.65	116	90	50	0	0	0	0
	LOUISVILLE	86	68	89	65	77	-1	0.03	-0.74	0.03	11.28	109	30.54	101	88	46	0	0	1	0
	PADUCAH	86	64	89	60	75	-3	0.00	-0.56	0.00	5.62	54	33.07	104	97	51	0	0	0	0
LA	BATON ROUGE	91	75	94	73	83	0	1.98	0.23	1.17	15.35	90	30.19	78	95	60	5	0	2	2
	LAKE CHARLES	90	74	93	73	82	-1	0.88	-0.17	0.46	12.40	79	21.61	59	97	58	4	0	3	0
	NEW ORLEANS	91	77	95	74	84	1	1.52	0.13	1.43	13.33	74	34.98	82	95	59	4	0	3	1
	SHREVEPORT	96	76	100	74	86	3	0.01	-0.59	0.01	7.80	71	26.89	81	85	48	6	0	1	0
MA	BOSTON	83	66	92	63	74	2	0.01	-0.71	0.01	2.80	30	15.80	57	78	40	2	0	1	0
	WORCESTER	82	61	90	58	71	2	0.07	-0.73	0.06	6.97	63	25.25	83	83	34	1	0	2	0
MD	BALTIMORE	85	63	89	60	74	-1	0.47	-0.26	0.40	12.11	125	30.67	115	91	38	0	0	3	0
ME	CARIBOU	78	56	86	50	67	3	0.92	0.08	0.78	10.96	109	27.10	116	95	49	0	0	4	1
	PORTLAND	80	58	90	55	69	1	0.50	-0.18	0.39	4.55	48	19.84	69	95	38	1	0	2	0
MI	ALPENA	82	53	86	49	68	2	0.89	0.13	0.89	7.66	100	20.77	118	96	42	0	0	1	1
	GRAND RAPIDS	80	58	83	55	69	-2	0.36	-0.43	0.35	7.19	73	24.24	104	95	50	0	0	2	0
	HOUGHTON LAKE	80	50	83	46	65	0	0.08	-0.70	0.08	5.66	75	17.68	102	95	44	0	0	1	0
	LANSING	82	59	84	57	71	1	0.79	0.04	0.79	8.69	104	25.96	130	91	49	0	0	1	1
	MUSKEGON	82	60	86	57	71	1	0.02	-0.76	0.02	7.10	100	20.37	105	87	47	0	0	1	0
	TRAVERSE CITY	81	58	85	53	69	2	0.28	-0.46	0.27	6.88	82	16.05	81	89	44	0	0	2	0
MN	DULUTH	73	57	76	48	65	0	1.72	0.90	1.28	10.09	97	21.80	112	96	70	0	0	3	1
	INT_L FALLS	78	57	83	51	68	4	1.72	1.11	0.86	9.23	98	25.99	162	95	58	0	0	3	1
	MINNEAPOLIS	78	62	83	58	70	-1	0.67	-0.35	0.26	5.41	48	16.76	80	91	57	0	0	3	0
	ROCHESTER	76	57	80	54	67	0	0.41	-0.67	0.31	14.13	115	28.52	125	96	64	0	0	2	0
	ST. CLOUD	77	58	83	50	68	0	1.48	0.64	1.05	10.61	108	19.96	110	100	62	0	0	3	1
MO	COLUMBIA	84	65	90	61	75	-2	1.75	0.72	1.62	7.64	65	24.11	85	87	51	1	0	4	1
	KANSAS CITY	84	66	92	63	75	-3	1.22	0.37	1.19	8.21	67	25.38	97	92	53	1	0	2	1
	SAINT LOUIS	85	68	90	65	77	-2	0.41	-0.24	0.41	18.93	182	38.15	142	84	49	1	0	1	0
	SPRINGFIELD	87	67	96	62	77	-1	1.17	0.38	0.75	6.40	60	29.15	101	96	50	2	0	3	1
MS	JACKSON	91	72	98	70	81	0	0.75	-0.24	0.41	10.38	86	36.78	101	98	59	5	0	4	0
	MERIDIAN	90	72	96	71	81	1	1.11	0.22	1.06	10.30	83	34.49	92	97	58	4	0	3	1
	TUPELO	91	70	98	66	80	-1	0.78	-0.03	0.67	6.00	55	32.62	92	88	48	6	0	2	1
MT	BILLINGS	90	62	94	58	76	4	0.00	-0.15	0.00	5.41	137	11.66	118	64	22	4	0	0	0
	BUTTE	88	48	91	46	68	6	0.00	-0.32	0.00	3.71	82	6.52	69	68	14	2	0	0	0
	CUT BANK	89	51	93	46	70	6	0.00	-0.27	0.00	5.26	115	6.32	76	76	17	2	0	0	0
	GLASGOW	94	64	99	59	79	8	0.00	-0.28	0.00	2.94	59	6.13	68	62	17	6	0	0	0
	GREAT FALLS	92	54	96	50	73	7	0.00	-0.38	0.00	3.20	64	8.38	78	58	14	6	0	0	0
	HAVRE	94	57	98	53	75	7	0.01	-0.25	0.01	4.84	106	6.24	74	61	16	6	0	1	0
	MISSOULA	97	55	101	50	76	9	0.00	-0.28	0.00	2.07	54	6.26	64	60	13	7	0	0	0
NC	ASHEVILLE	78	64	84	62	71	-2	0.66	-0.33	0.33	7.41	62	31.55	105	95	60	0	0	5	0
	CHARLOTTE	84	67	88	62	75	-2	0.12	-0.86	0.10	8.43	82	26.66	98	90	54	0	0	2	0
	GREENSBORO	81	63	83	62	72	-5	0.65	-0.16	0.32	11.18	105	29.83	109	94	55	0	0	3	0
	HATTERAS	83	70	85	67	76	-2	0.61	-0.93	0.42	11.16	84	31.43	91	92	62	0	0	4	0
	RALEIGH	84	65	88	62	75	-4	0.06	-0.80	0.04	10.23	94	29.28	105	95	51	0	0	3	0
	WILMINGTON	85	70	89	65	77	-2	4.02	2.43	3.08	17.50	100	28.99	79	94	55	0	0	3	2
ND	BISMARCK	89	62	93	59	76	6	0.07	-0.43	0.06	5.16	68	22.00	168	91	39	3	0	2	0
	DICKINSON	89	57	96	52	73	4	0.00	-0.33	0.00	6.61	99	11.74	99	88	33	4	0	0	0
	FARGO	80	61	85	57	71	1	1.02	0.44	0.98	7.15	87	16.87	112	96	57	0	0	2	1
	GRAND FORKS	83	61	88	56	72	4	0.89	0.21	0.83	7.67	91	19.45	136	95	55	0	0	2	1
	JAMESTOWN	83	61	89	58	72	4	0.70	0.25	0.63	4.69	60	13.48	100	93	52	0	0	4	1
NE	GRAND ISLAND	82	61	90	56	71	-3	0.09	-0.62	0.05	5.00	50	9.81	49	91	50	1	0	3	0
	LINCOLN	84	62	90	57	73	-2	0.44	-0.36	0.38	6.70	67	16.36	80	89	47	2	0	3	0
	NORFOLK	82	60	91	57	71	-2	0.52	-0.22	0.42	4.49	45	9.98	51	93	49	1	0	3	0
	NORTH PLATTE	85	61	95	54	73	1	0.78	0.30	0.76	5.22	64	10.70	68	89	42	2	0	2	1
	OMAHA	82	62	87	60	72	-3	0.80	-0.12	0.52	7.32	69	16.99	77	98	54	0	0	3	1
	SCOTTSBLUFF	89	59	94	51	74	2	0.00	-0.27	0.00	1.41	25	6.60	55	86	28	2	0	0	0
	VALENTINE	81	58	89	53	70	-3	0.52	0.05	0.31	4.48	54	9.36	60	94	47	0	0	3	0
NH	CONCORD	84	54	92	49	69	0	0.93	0.24	0.81	6.36	66	22.02	87	97	33	2	0	2	1
NJ	ATLANTIC_CITY	84	61	90	57	72	-2	0.00	-1.00	0.00	7.98	82	30.24	112	91	40	1	0	0	0
	NEWARK	87	66	94	63	76	1	0.10	-0.70	0.09	3.62	31	21.74	71	72	33	3	0	2	0
NM	ALBUQUERQUE	85	66	92	62	76	-1	0.28	-0.09	0.27	4.35	132	5.25	88	72	31	3	0	2	0
NV	ELY	84	51	90	48	67	1	0.04	-0.18	0.04	1.94	97	3.58	54	88	22	1	0	1	0
	LAS VEGAS	99	82	103	79	91	0	0.00	-0.08	0.00	0.97	127	1.13	39	50	24	7	0	0	0
	RENO	94	62	98	59	78	5	0.16	0.10	0.12	1.70	182	2.41	50	60	16	6	0	2	0
	WINNEMUCCA	96	54	103	47	75	5	0.00	-0.04	0.00	0.73	72	2.78	50	58	13	7	0	0	0
NY	ALBANY	85	59	93	54	72	2	0.76	-0.02	0.76	5.82	56	28.52	114	91	37	1	0	1	1
	BINGHAMTON	80	56	85	50	68	1	0.50	-0.29	0.30	9.28	90	25.19	101	94	38	0	0	2	0
	BUFFALO	82	61	88	57	71	2	0.17	-0.54	0.17	6.15	68	20.67	86	85	44	0	0	1	0
	ROCHESTER	83	57	90	52	70	1	0.07	-0.72	0.04	4.04	45	16.43	77	93	38	1	0	2	0
	SYRACUSE	85	60	90	52	72	2	0.35	-0.47	0.24	8.00	85	20.55	88	86	38	1	0	2	0
OH	AKRON-CANTON	82	61	88	58	71	1	0.34	-0.44	0.31	6.61	64	26.77	103	89	45	0	0	3	0
	CINCINNATI	83	64	86	62	73	-2	0.70	-0.11	0.66	13.80	137	36.77	128	92	43	0	0	2	1
	CLEVELAND	80	62	87	59	71	-1	0.19	-0.59	0.16	10.39	113	26.51	109	90	42	0	0	3	0
	COLUMBUS	81	62	86	59	71	-3	0.91	0.17	0.44	12.45	113	34.98	132	97	52	0	0	3	0
	DAYTON	83	62	87	59	73	0	0.00	-0.69	0.00	9.00	88	28.67	105	88	47	0	0	0	0
	MANSFIELD	78	58	84	56	68	-2	0.92	-0.11	0.52	13.43	111	33.33	113	96	58	0	0	3	1

Based on 1981-2010 normals ***** Not Available**

Weather Data for the Week Ending August 20, 2022

STATES AND STATIONS		TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY PERCENT		NUMBER OF DAYS TEMP. °F		NUMBER OF DAYS PRECIP	
		AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE JUN 1	PCT. NORMAL SINCE JUN 1	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
	TOLEDO	83	61	87	58	72	0	0.76	0.06	0.42	9.97	113	30.72	139	89	46	0	0	2	0
	YOUNGSTOWN	82	57	88	52	69	0	0.50	-0.18	0.28	6.69	65	31.15	124	96	44	0	0	3	0
OK	OKLAHOMA CITY	94	68	103	60	81	-2	0.09	-0.63	0.08	4.00	40	15.01	63	83	37	5	0	2	0
	TULSA	95	71	105	66	83	0	0.10	-0.51	0.07	6.22	63	23.80	90	83	38	5	0	2	0
OR	ASTORIA	74	58	84	52	66	5	0.03	-0.24	0.02	4.29	101	41.60	110	98	64	0	0	2	0
	BURNS	95	54	102	44	74	10	0.00	-0.09	0.00	1.43	97	4.66	66	56	12	7	0	0	0
	EUGENE	89	57	96	52	73	6	0.00	-0.15	0.00	2.70	112	18.77	72	91	34	4	0	0	0
	MEDFORD	96	63	99	58	80	6	0.00	-0.11	0.00	2.00	162	7.16	70	67	19	7	0	0	0
	PENDLETON	97	63	104	54	80	8	0.00	-0.10	0.00	2.46	152	11.03	137	55	15	7	0	0	0
	PORTLAND	87	66	97	60	76	7	0.00	-0.16	0.00	3.22	117	22.87	113	81	39	2	0	0	0
	SALEM	89	61	95	55	75	7	0.00	-0.11	0.00	2.98	129	24.25	111	86	33	3	0	0	0
PA	ALLENTOWN	87	58	92	55	73	1	0.00	-0.81	0.00	6.39	54	27.58	96	85	30	2	0	0	0
	ERIE	79	62	86	59	71	0	0.12	-0.65	0.12	6.51	68	23.68	96	86	50	0	0	1	0
	MIDDLETOWN	86	65	91	63	75	1	0.08	-0.59	0.05	8.28	80	26.48	103	81	34	2	0	2	0
	PHILADELPHIA	87	68	92	64	77	1	0.00	-0.80	0.00	9.01	89	23.81	89	79	34	2	0	0	0
	PITTSBURGH	80	60	87	55	70	-2	0.47	-0.31	0.30	7.83	75	24.83	97	92	45	0	0	3	0
	WILKES-BARRE	86	59	92	55	73	3	0.01	-0.73	0.01	6.32	62	24.29	102	84	34	2	0	1	0
	WILLIAMSPORT	84	59	91	52	72	1	0.35	-0.48	0.34	5.59	51	21.58	84	93	37	1	0	2	0
RI	PROVIDENCE	86	63	93	57	74	2	0.05	-0.77	0.03	5.86	63	23.04	78	85	37	1	0	2	0
SC	CHARLESTON	87	70	91	66	79	-2	2.50	0.91	2.12	19.04	114	29.42	89	94	55	2	0	3	1
	COLUMBIA	84	69	91	61	77	-4	0.56	-0.63	0.35	11.72	85	28.15	93	98	61	1	0	4	0
	FLORENCE	84	68	90	61	76	-4	1.23	0.05	0.78	10.89	81	26.28	91	95	59	1	0	3	1
	GREENVILLE	84	67	92	65	75	-3	0.00	-1.01	0.00	8.88	76	32.99	106	93	54	1	0	0	0
SD	ABERDEEN	83	60	89	57	72	3	0.31	-0.22	0.28	5.46	66	16.15	104	97	54	0	0	2	0
	HURON	78	60	85	57	69	-3	0.00	-0.50	0.00	5.13	60	13.69	83	94	59	0	0	0	0
	RAPID CITY	88	58	93	50	73	1	0.02	-0.31	0.02	6.89	126	11.77	96	87	30	3	0	1	0
	SIOUX FALLS	79	60	89	56	69	-2	0.49	-0.19	0.36	11.15	124	18.81	102	93	60	0	0	2	0
TN	BRISTOL	84	62	87	58	73	-1	0.59	-0.14	0.24	8.98	81	31.02	109	98	53	0	0	3	0
	CHATTANOOGA	87	69	91	66	78	-2	1.37	0.61	1.20	12.85	113	39.26	114	90	51	1	0	2	1
	KNOXVILLE	86	66	88	63	76	-2	0.01	-0.70	0.01	11.90	107	37.91	116	94	49	0	0	1	0
	MEMPHIS	89	72	94	68	80	-2	0.82	0.20	0.81	9.18	89	35.47	102	83	53	5	0	2	1
	NASHVILLE	87	67	92	63	77	-2	0.80	0.08	0.65	12.74	129	39.94	128	84	46	1	0	3	1
TX	ABILENE	98	73	101	69	85	2	0.01	-0.56	0.01	1.13	16	4.87	30	72	28	7	0	1	0
	AMARILLO	89	65	95	61	77	0	0.37	-0.28	0.21	6.70	84	10.07	70	83	35	4	0	2	0
	AUSTIN	100	76	103	73	88	2	0.97	0.45	0.66	3.23	43	11.68	55	93	36	7	0	2	1
	BEAUMONT	91	74	96	73	83	-1	1.95	0.77	1.16	19.47	118	28.56	76	98	63	5	0	4	1
	BROWNSVILLE	95	79	97	77	87	1	0.52	-0.01	0.37	2.11	36	14.76	107	92	54	7	0	3	0
	CORPUS CHRISTI	92	76	96	73	84	-1	4.84	4.19	2.55	7.34	96	13.46	75	99	63	6	0	2	2
	DEL RIO	96	77	103	74	86	0	1.12	0.60	1.12	1.36	25	4.05	32	85	38	6	0	1	1
	EL PASO	89	69	98	67	79	-2	2.13	1.69	1.14	3.75	96	5.07	86	75	38	3	0	4	2
	FORT WORTH	96	76	102	73	86	1	0.47	0.08	0.47	3.53	49	16.41	70	77	36	6	0	1	0
	GALVESTON	92	81	95	77	87	1	1.83	0.00	0.65	10.48	0	19.46	0	80	58	6	0	4	2
	HOUSTON	92	75	99	73	84	-1	1.96	1.11	1.58	6.65	55	26.38	87	97	55	6	0	4	1
	LUBBOCK	89	68	97	65	79	0	1.97	1.56	1.40	3.06	50	6.28	50	77	35	5	0	2	2
	MIDLAND	92	70	97	67	81	-1	2.56	2.17	1.99	4.28	90	4.78	52	84	35	5	0	4	2
	SAN ANGELO	96	73	100	71	84	1	0.04	-0.49	0.04	0.96	19	3.51	26	78	33	6	0	1	0
	SAN ANTONIO	95	77	99	74	86	0	0.21	-0.23	0.17	0.87	10	5.19	26	87	41	5	0	2	0
	VICTORIA	94	75	99	72	85	0	1.19	0.60	0.85	6.94	67	12.67	49	100	54	6	0	4	1
	WACO	100	75	104	73	87	2	1.44	1.02	0.74	2.31	36	10.20	48	87	36	7	0	3	2
	WICHITA FALLS	98	72	102	67	85	1	0.35	-0.19	0.34	3.39	46	10.26	54	82	28	7	0	2	0
UT	SALT LAKE CITY	93	71	101	68	82	5	0.05	-0.09	0.04	1.81	89	6.25	60	60	24	4	0	2	0
VA	LYNCHBURG	81	62	87	59	72	-3	0.70	0.02	0.69	13.04	129	31.87	119	91	55	0	0	2	1
	NORFOLK	82	67	85	64	74	-3	0.10	-1.13	0.08	7.56	57	24.10	80	94	51	0	0	2	0
	RICHMOND	82	64	86	61	73	-4	0.44	-0.59	0.24	11.72	101	27.26	96	93	49	0	0	3	0
	ROANOKE	78	63	84	62	71	-5	1.42	0.67	1.26	10.24	101	29.09	109	92	59	0	0	4	1
	WASH/DULLES	83	61	88	57	72	-3	0.25	-0.55	0.18	9.94	99	26.88	100	95	46	0	0	3	0
VT	BURLINGTON	84	59	92	53	72	3	0.04	-0.87	0.03	9.00	85	21.59	94	90	34	1	0	2	0
WA	OLYMPIA	85	56	95	48	71	6	0.02	-0.21	0.02	3.17	109	31.83	117	92	40	2	0	1	0
	QUILLAYUTE	76	55	89	50	66	6	0.01	-0.59	0.01	6.58	95	59.77	107	99	57	0	0	1	0
	SEATTLE-TACOMA	84	62	89	58	73	6	0.02	-0.20	0.02	2.82	101	24.72	122	82	42	0	0	1	0
	SPOKANE	93	65	99	57	79	10	0.00	-0.14	0.00	2.69	117	9.41	94	52	18	6	0	0	0
	YAKIMA	96	63	102	54	80	10	0.00	-0.07	0.00	0.88	82	4.06	84	72	20	6	0	0	0
WI	EAU CLAIRE	79	58	82	53	69	-1	0.93	-0.12	0.87	6.41	58	12.68	61	95	56	0	0	2	1
	GREEN BAY	80	60	84	55	70	3	0.06	-0.72	0.06	10.99	114	21.87	113	89	52	0	0	1	0
	LA CROSSE	79	61	84	58	70	-1	0.21	-0.81	0.15	10.24	88	20.39	90	96	52	0	0	2	0
	MADISON	78	58	82	52	68	-1	0.19	-0.84	0.18	11.58	100	22.99	98	94	57	0	0	2	0
	MILWAUKEE	79	64	87	61	72	1	0.48	-0.50	0.47	9.08	88	21.33	93	88	52	0	0	2	0
WV	BECKLEY	76	58	81	54	67	-3	2.33	1.60	1.38	15.62	135	34.35	120	97	61	0	0	4	2
	CHARLESTON	82	62	87	59	72	-3	4.43	3.61	2.55	22.45	190	44.42	148	100	55	0	0	2	2
	ELKINS	77	57	85	54	67	-2	1.02	0.18	0.47	20.17	163	41.46	131	96	56	0	0	5	0
	HUNTINGTON	82	63	87	59	72	-3	0.14	-0.71	0.14	14.98	137	36.07	124	96	53	0	0	1	0
WY	CASPER	85	52	90	47	68	-1	0.29	0.11	0.15	2.16	59	9.93	111	91	27	1	0	3	0
	CHEYENNE	81	57	86	53	69	1	0.04	-0.36	0.04	2.78	47	6.52	54	78	30	0	0	1	0
	LANDER	86	56	93	50	71	1	0.07	-0.05	0.07	0.66	26	9.50	107	65	24	1	0	1	0
	SHERIDAN	92	55	95	48	73	4	0.00	-0.14	0.00	2.25	60	13.31	136	75	21	6	0	0	0

Based on 1981-2010 normals ***** Not Available**

National Agricultural Summary

August 15 – 21, 2022

Weekly National Agricultural Summary provided by USDA/NASS

HIGHLIGHTS

Much of the Pacific Northwest and northern Rockies, as well as large parts of Kentucky, the mid-Atlantic, and Great Plains were drier than normal. In contrast, much of the Great Basin, central Rockies, and Southwest, as well as parts of Maine, the Midwest, and the South, recorded at least twice the normal amount of weekly precipitation. Some locations in southern Texas recorded weekly rainfall totaling 6 inches or more. Meanwhile, most of California, the Pacific Northwest, northern Rockies, and northern Plains recorded above-normal temperatures. Some locations in Washington recorded temperatures 12°F or more above normal. In contrast, much of the Corn Belt, mid-Atlantic, Mississippi Valley, central Plains, Southeast, and Southwest recorded below-normal temperatures. Parts of western Texas and a few locations in North Carolina and Virginia recorded temperatures 6°F or more below normal.

Corn: By August 21, ninety-seven percent of the nation's corn acreage had reached the silking stage, 3 percentage points behind last year and 2 points behind the 5-year average. By August 21, seventy-five percent of the corn acreage was at or beyond the dough stage, 8 percentage points behind last year and 4 points behind average. By August 21, thirty-one percent of this year's corn acreage was denting, 7 percentage points behind last year and 4 points behind average. Four percent of the nation's corn was mature by August 21, equal to both last year and the average. On August 21, fifty-five percent of the nation's corn was rated in good to excellent condition, 2 percentage points below the previous week and 5 points below the same time last year. In Iowa, 66 percent of the corn crop was rated in good to excellent condition.

Soybeans: By August 21, ninety-seven percent of the nation's soybean acreage had reached the blooming stage, equal to both last year and the 5-year average. Nationally, 84 percent of the soybean acreage had begun setting pods, 3 percentage points behind last year and 2 points behind average. On August 21, fifty-seven percent of the soybean acreage was rated in good to excellent condition, 1 percentage point below the previous week but 1 point above the previous year.

Winter Wheat: Ninety-five percent of the 2022 winter wheat acreage had been harvested by August 21, four percentage points behind last year and 2 points behind the 5-year average. Winter wheat harvest advances 17 percentage points or more during the week in Idaho, Montana, and Washington.

Cotton: By August 21, eighty-eight percent of the nation's cotton acreage had begun setting bolls, 10 percentage points ahead of last year and 3 points ahead of the 5-year average. By August 21, nineteen percent of the nation's cotton had open bolls, 6 percentage points ahead of last year and 1 point ahead of average. On August 21, thirty-one percent of the 2022 cotton acreage was rated in good to excellent condition, 3 percentage points below the previous week and 40 points below the same time last year.

Sorghum: By August 21, seventy-nine percent of the nation's sorghum acreage had reached the headed stage, 10 percentage points behind last year and 7 points behind the 5-year average. Thirty-seven percent of the sorghum acreage was at or beyond the coloring stage by August 21, five percentage points behind both last year and the average. By August 21, twenty percent of the nation's sorghum was mature, equal to last year but 2 percentage points behind the average. Twenty-five percent of the nation's sorghum acreage was rated in good to excellent condition on August 21, two percentage points below the previous week and 37 points below the same time last year.

Rice: By August 21, ninety-three percent of the nation's rice acreage had reached the headed stage, 1 percentage point above the previous year but equal to the 5-year average. Nationally, 15 percent of the rice acreage was harvested by August 21, one percentage point above the previous year but equal to the average. On August 21, seventy-two percent of the nation's rice acreage was rated in good to excellent condition, 3 percentage points below the previous week and 5 points below the same time last year.

Small Grains: Seventy percent of the nation's oat acreage had been harvested by August 21, fifteen percentage points behind last year and 9 points behind the 5-year average. Oat harvest progress advanced at least 15 percentage points during the week in Minnesota, North Dakota, and Wisconsin.

By August 21, barley producers had harvested 44 percent of the nation's crop, 25 percentage points behind last year and 16 points behind the 5-year average. On August 21, fifty-four percent of the barley acreage was rated in good to excellent condition, 4 percentage points below the previous week but 31 points above the same time last year.

By August 21, thirty-three percent of the nation's spring wheat had been harvested, 41 percentage points behind the previous year and 21 points behind the 5-year average. On August 21, sixty-four percent of the spring wheat was rated in good to excellent condition, unchanged from the previous week but 53 percentage points above the same time last year.

Other Crops: On August 21, sixty-nine percent of the nation's peanut acreage was rated in good to excellent condition, 1 percentage point below the previous week and 6 points below the same time last year.

Crop Progress and Condition

Week Ending August 21, 2022

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

Corn Percent Silking

	Prev Year	Prev Week	Aug 21 2022	5-Yr Avg
CO	95	87	98	96
IL	97	96	96	99
IN	100	96	99	98
IA	100	96	97	99
KS	100	90	94	99
KY	98	95	99	99
MI	100	97	100	95
MN	100	97	99	100
MO	100	95	98	100
NE	100	95	100	100
NC	100	100	100	100
ND	98	91	95	98
OH	95	96	99	96
PA	96	79	88	92
SD	100	93	96	98
TN	100	98	99	100
TX	99	99	100	100
WI	100	88	94	95
18 Sts	100	94	97	99

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

Corn Percent Dough

	Prev Year	Prev Week	Aug 21 2022	5-Yr Avg
CO	64	38	50	59
IL	84	70	80	85
IN	85	59	77	77
IA	89	72	84	82
KS	84	63	74	84
KY	69	63	71	76
MI	75	55	71	61
MN	83	44	62	79
MO	91	81	91	89
NE	88	64	78	85
NC	96	87	91	96
ND	71	40	61	59
OH	79	65	77	71
PA	44	38	62	54
SD	79	55	71	73
TN	94	87	92	95
TX	89	80	86	91
WI	72	44	59	61
18 Sts	83	62	75	79

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

Corn Percent Dented

	Prev Year	Prev Week	Aug 21 2022	5-Yr Avg
CO	17	10	20	13
IL	47	12	37	44
IN	33	8	20	33
IA	44	15	30	34
KS	45	25	47	49
KY	51	43	54	56
MI	18	11	24	15
MN	28	4	12	21
MO	50	34	55	59
NE	38	17	39	38
NC	86	63	78	85
ND	20	1	6	14
OH	35	10	23	23
PA	3	2	11	15
SD	27	6	16	22
TN	68	44	60	69
TX	81	70	76	81
WI	21	4	11	15
18 Sts	38	16	31	35

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

Corn Percent Mature

	Prev Year	Prev Week	Aug 21 2022	5-Yr Avg
CO	1	NA	0	0
IL	0	NA	0	1
IN	1	NA	1	1
IA	3	NA	1	2
KS	3	NA	12	7
KY	19	NA	13	22
MI	0	NA	0	0
MN	0	NA	0	0
MO	2	NA	3	4
NE	1	NA	3	1
NC	53	29	46	55
ND	2	NA	0	1
OH	0	NA	0	0
PA	0	NA	0	0
SD	5	NA	0	1
TN	6	NA	9	11
TX	57	58	67	57
WI	1	NA	0	0
18 Sts	4	NA	4	4

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

Corn Condition by Percent

	VP	P	F	G	EX
CO	12	20	37	25	6
IL	3	5	22	49	21
IN	4	10	32	46	8
IA	2	6	26	51	15
KS	21	23	30	22	4
KY	12	22	35	25	6
MI	2	5	31	51	11
MN	2	4	27	54	13
MO	12	16	23	41	8
NE	14	16	28	31	11
NC	18	21	24	33	4
ND	0	4	28	57	11
OH	4	11	25	50	10
PA	6	17	25	41	11
SD	7	15	30	41	7
TN	17	21	30	29	3
TX	27	22	34	15	2
WI	1	4	18	52	25
18 Sts	7	11	27	43	12
Prev Wk	6	10	27	45	12
Prev Yr	4	10	26	46	14

Peanut Condition by Percent

	VP	P	F	G	EX
AL	0	1	6	80	13
FL	1	2	21	70	6
GA	1	5	24	58	12
NC	1	4	27	59	9
OK	0	0	33	67	0
SC	0	1	15	64	20
TX	0	8	68	22	2
VA	0	0	10	82	8
8 Sts	1	4	26	59	10
Prev Wk	1	4	25	60	10
Prev Yr	1	2	22	63	12

Crop Progress and Condition

Week Ending August 21, 2022

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

Soybeans Percent Blooming

	Prev Year	Prev Week	Aug 21 2022	5-Yr Avg
AR	98	98	100	98
IL	98	93	95	97
IN	99	92	96	96
IA	99	94	97	97
KS	90	85	91	92
KY	89	82	90	87
LA	100	100	100	100
MI	100	98	100	95
MN	100	96	98	100
MS	98	98	99	98
MO	89	84	91	91
NE	100	98	100	99
NC	92	91	96	91
ND	99	97	100	98
OH	93	95	99	94
SD	99	95	98	97
TN	94	92	95	95
WI	99	93	96	95
18 Sts	97	93	97	97

These 18 States planted 96% of last year's soybean acreage.

Soybeans Percent Setting Pods

	Prev Year	Prev Week	Aug 21 2022	5-Yr Avg
AR	91	90	93	93
IL	83	73	80	87
IN	88	71	81	83
IA	94	80	88	89
KS	70	57	67	76
KY	79	62	74	73
LA	95	99	100	99
MI	95	83	94	82
MN	95	77	88	94
MS	95	92	95	94
MO	68	58	73	72
NE	92	88	93	90
NC	75	71	85	70
ND	92	68	86	90
OH	86	74	88	83
SD	93	74	86	86
TN	81	70	80	82
WI	88	72	84	85
18 Sts	87	74	84	86

These 18 States planted 96% of last year's soybean acreage.

Soybean Condition by Percent

	VP	P	F	G	EX
AR	4	8	24	51	13
IL	4	5	23	51	17
IN	4	9	32	48	7
IA	2	7	29	49	13
KS	14	21	34	28	3
KY	3	14	42	34	7
LA	3	4	30	59	4
MI	1	6	36	45	12
MN	1	5	27	57	10
MS	1	7	37	46	9
MO	7	12	30	42	9
NE	9	13	32	36	10
NC	3	7	28	57	5
ND	0	6	37	49	8
OH	4	11	26	50	9
SD	3	12	30	49	6
TN	5	13	34	40	8
WI	1	3	18	56	22
18 Sts	4	9	30	47	10
Prev Wk	3	9	30	48	10
Prev Yr	5	11	28	45	11

Cotton Percent Setting Bolls

	Prev Year	Prev Week	Aug 21 2022	5-Yr Avg
AL	93	93	97	95
AZ	100	92	95	98
AR	99	98	99	100
CA	100	70	80	84
GA	89	87	92	93
KS	84	92	96	67
LA	98	95	98	99
MS	89	88	91	92
MO	96	82	90	88
NC	85	77	89	88
OK	69	60	80	77
SC	95	87	91	88
TN	90	91	95	95
TX	71	76	85	81
VA	87	93	99	90
15 Sts	78	80	88	85

These 15 States planted 99% of last year's cotton acreage.

Cotton Percent Bolls Opening

	Prev Year	Prev Week	Aug 21 2022	5-Yr Avg
AL	6	7	14	13
AZ	52	29	34	49
AR	15	5	10	16
CA	2	0	0	2
GA	10	6	12	14
KS	8	12	17	5
LA	38	34	43	38
MS	32	7	9	21
MO	0	0	2	11
NC	4	3	9	6
OK	4	0	0	7
SC	2	2	6	7
TN	4	4	7	7
TX	15	21	25	21
VA	3	5	18	5
15 Sts	13	15	19	18

These 15 States planted 99% of last year's cotton acreage.

Cotton Condition by Percent

	VP	P	F	G	EX
AL	0	2	28	62	8
AZ	1	1	17	46	35
AR	8	10	16	40	26
CA	0	0	5	90	5
GA	1	5	28	53	13
KS	5	38	36	19	2
LA	0	13	22	58	7
MS	2	12	30	51	5
MO	9	9	30	52	0
NC	2	13	25	54	6
OK	32	30	31	7	0
SC	1	3	23	57	16
TN	3	10	30	49	8
TX	28	31	30	10	1
VA	0	2	12	78	8
15 Sts	18	22	29	26	5
Prev Wk	16	19	31	29	5
Prev Yr	1	5	23	53	18

Crop Progress and Condition

Week Ending August 21, 2022

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

Sorghum Percent Headed

	Prev Year	Prev Week	Aug 21 2022	5-Yr Avg
CO	96	65	90	86
KS	84	52	68	82
NE	95	63	75	94
OK	82	60	70	79
SD	91	72	85	88
TX	94	94	97	92
6 Sts	89	67	79	86

These 6 States planted 100% of last year's sorghum acreage.

Sorghum Percent Coloring

	Prev Year	Prev Week	Aug 21 2022	5-Yr Avg
CO	17	15	21	15
KS	28	9	16	23
NE	33	10	17	32
OK	31	30	40	36
SD	27	6	14	26
TX	79	74	81	80
6 Sts	42	30	37	42

These 6 States planted 100% of last year's sorghum acreage.

Sorghum Percent Mature

	Prev Year	Prev Week	Aug 21 2022	5-Yr Avg
CO	0	NA	0	0
KS	0	NA	0	0
NE	0	NA	0	0
OK	0	NA	1	6
SD	0	NA	0	1
TX	68	60	67	69
6 Sts	20	NA	20	22

These 6 States planted 100% of last year's sorghum acreage.

Sorghum Condition by Percent

	VP	P	F	G	EX
CO	1	12	41	38	8
KS	17	26	31	24	2
NE	20	32	28	15	5
OK	18	26	36	20	0
SD	3	12	45	40	0
TX	13	29	41	16	1
6 Sts	14	26	35	23	2
Prev Wk	15	23	35	25	2
Prev Yr	2	8	28	52	10

Spring Wheat Percent Harvested

	Prev Year	Prev Week	Aug 21 2022	5-Yr Avg
ID	69	14	27	52
MN	97	12	30	60
MT	67	26	52	52
ND	69	5	18	49
SD	93	72	84	80
WA	83	14	40	56
6 Sts	74	16	33	54

These 6 States harvested 100% of last year's spring wheat acreage.

Spring Wheat Condition by Percent

	VP	P	F	G	EX
ID	0	5	24	62	9
MN	0	1	11	84	4
MT	1	19	49	30	1
ND	0	2	24	61	13
SD	6	17	30	45	2
WA	0	0	3	84	13
6 Sts	1	7	28	56	8
Prev Wk	0	6	30	58	6
Prev Yr	28	35	26	10	1

Winter Wheat Percent Harvested

	Prev Year	Prev Week	Aug 21 2022	5-Yr Avg
AR	100	100	100	100
CA	100	100	100	100
CO	100	100	100	99
ID	94	28	45	85
IL	100	100	100	100
IN	100	100	100	100
KS	100	100	100	100
MI	100	96	99	99
MO	100	100	100	100
MT	94	71	92	85
NE	100	98	100	99
NC	100	100	100	100
OH	100	100	100	100
OK	100	100	100	100
OR	99	82	90	96
SD	100	94	97	95
TX	100	100	100	100
WA	97	45	73	86
18 Sts	99	90	95	97

These 18 States harvested 91% of last year's winter wheat acreage.

Barley Percent Harvested

	Prev Year	Prev Week	Aug 21 2022	5-Yr Avg
ID	71	29	38	62
MN	95	13	28	81
MT	61	40	59	55
ND	75	22	30	61
WA	86	24	43	60
5 Sts	69	31	44	60

These 5 States harvested 85% of last year's barley acreage.

Barley Condition by Percent

	VP	P	F	G	EX
ID	2	5	20	55	18
MN	0	1	26	69	4
MT	6	24	40	29	1
ND	0	1	31	58	10
WA	0	0	3	86	11
5 Sts	3	12	31	46	8
Prev Wk	0	9	33	51	7
Prev Yr	25	26	26	19	4

Crop Progress and Condition

Week Ending August 21, 2022

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

Rice Percent Headed

	Prev Year	Prev Week	Aug 21 2022	5-Yr Avg
AR	91	79	89	93
CA	84	80	95	87
LA	98	98	99	98
MS	97	96	99	96
MO	95	71	90	89
TX	95	97	100	99
6 Sts	92	84	93	93

These 6 States planted 100% of last year's rice acreage.

Rice Percent Harvested

	Prev Year	Prev Week	Aug 21 2022	5-Yr Avg
AR	2	1	2	2
CA	0	0	0	0
LA	61	46	60	66
MS	2	0	0	4
MO	0	0	0	0
TX	49	51	66	59
6 Sts	14	11	15	15

These 6 States harvested 100% of last year's rice acreage.

Rice Condition by Percent

	VP	P	F	G	EX
AR	0	4	24	53	19
CA	0	0	20	60	20
LA	0	3	10	80	7
MS	0	2	51	38	9
MO	3	7	37	39	14
TX	0	1	48	29	22
6 Sts	0	3	25	55	17
Prev Wk	0	3	22	60	15
Prev Yr	1	3	19	61	16

Oats Percent Harvested

	Prev Year	Prev Week	Aug 21 2022	5-Yr Avg
IA	96	86	91	97
MN	94	47	62	77
NE	98	96	97	98
ND	63	16	32	56
OH	100	87	96	98
PA	84	58	65	75
SD	94	82	88	89
TX	100	100	100	100
WI	72	44	66	69
9 Sts	85	58	70	79

These 9 States harvested 69% of last year's oat acreage.

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

NA - Not Available
* Revised

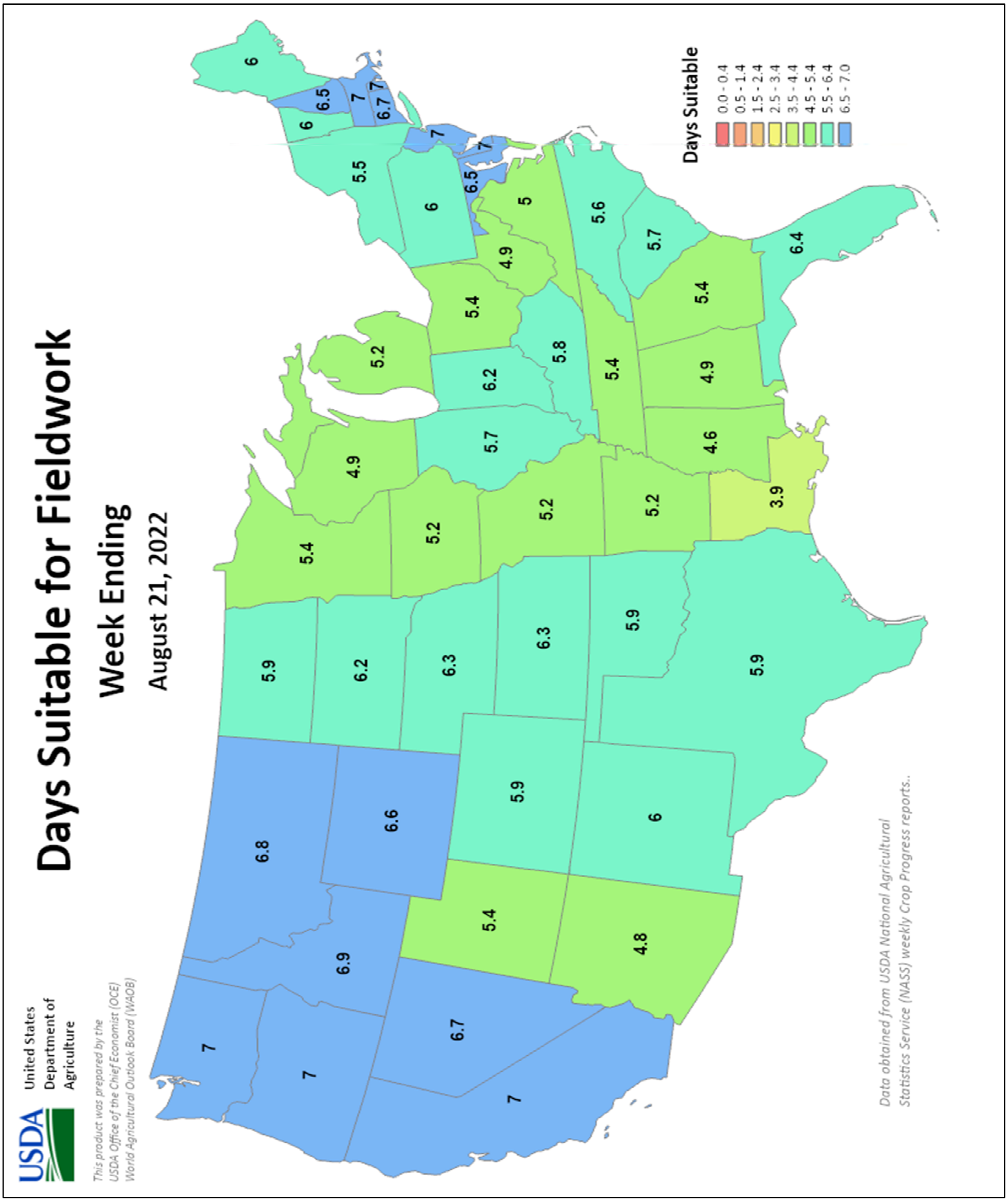
Pasture and Range Condition by Percent
Week Ending Aug 21, 2022

	VP	P	F	G	EX			VP	P	F	G	EX
AL	0	4	30	63	3		NH	13	31	37	18	1
AZ	8	17	45	23	7		NJ	8	41	47	4	0
AR	16	25	39	18	2		NM	6	31	33	19	11
CA	15	35	35	15	0		NY	17	17	28	30	8
CO	20	19	24	27	10		NC	1	6	43	48	2
CT	9	83	8	0	0		ND	1	7	32	54	6
DE	2	24	36	34	4		OH	0	7	30	56	7
FL	1	2	24	48	25		OK	33	36	25	6	0
GA	4	10	36	44	6		OR	14	19	42	23	2
ID	2	10	40	31	17		PA	22	19	25	34	0
IL	4	13	34	42	7		RI	100	0	0	0	0
IN	6	13	35	42	4		SC	3	9	38	45	5
IA	12	27	28	27	6		SD	17	32	30	20	1
KS	37	25	26	12	0		TN	1	10	36	49	4
KY	3	9	35	44	9		TX	53	31	14	2	0
LA	9	11	28	44	8		UT	6	20	30	43	1
ME	0	0	42	58	0		VT	0	22	36	41	1
MD	10	15	22	46	7		VA	1	9	37	44	9
MA	40	30	20	10	0		WA	3	6	36	51	4
MI	8	23	35	30	4		WV	1	3	14	80	2
MN	2	6	24	57	11		WI	1	7	20	57	15
MS	2	13	36	46	3		WY	18	17	36	29	0
MO	8	16	43	31	2		48 Sts	25	24	28	20	3
MT	23	20	29	28	0							
NE	53	28	15	4	0		Prev Wk	27	25	27	18	3
NV	10	25	55	10	0		Prev Yr	22	21	28	23	6

Crop Progress and Condition

Week Ending August 21, 2022

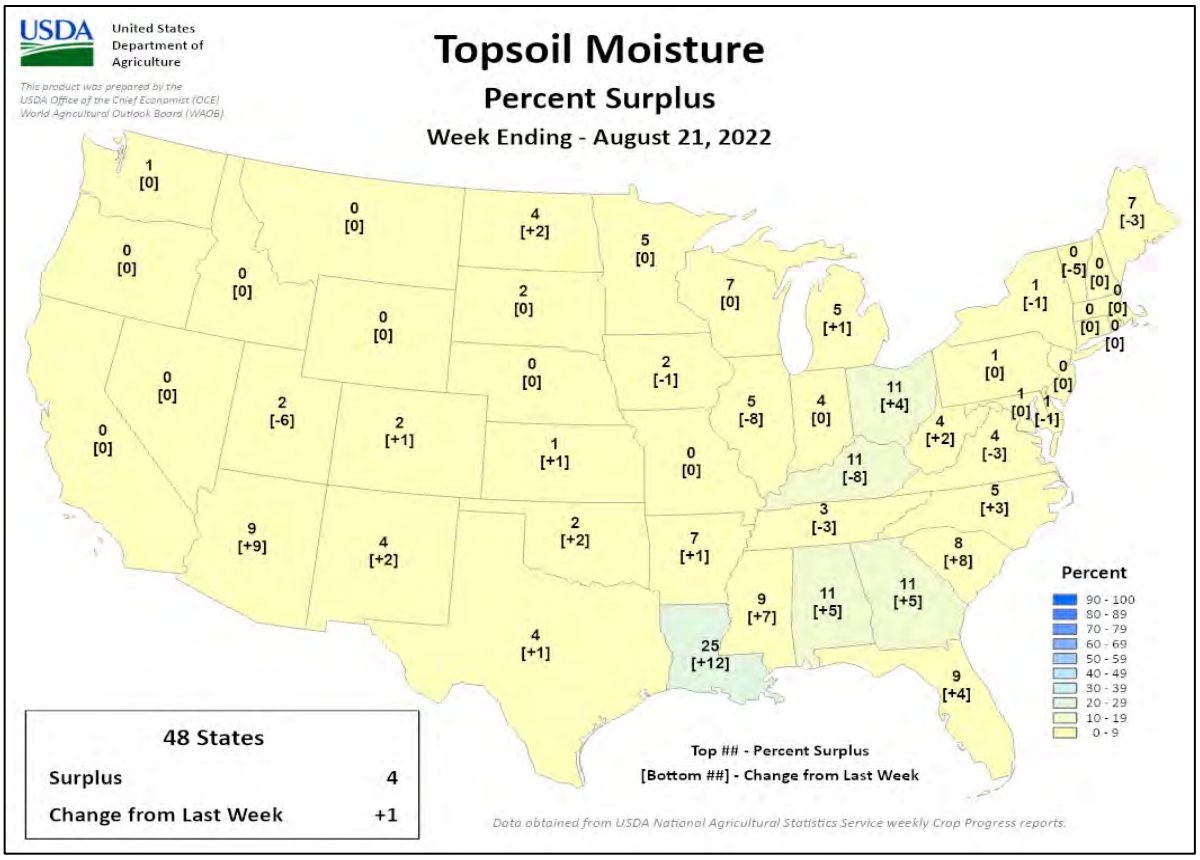
Weekly U.S. Progress and Condition Data provided by USDA/NASS

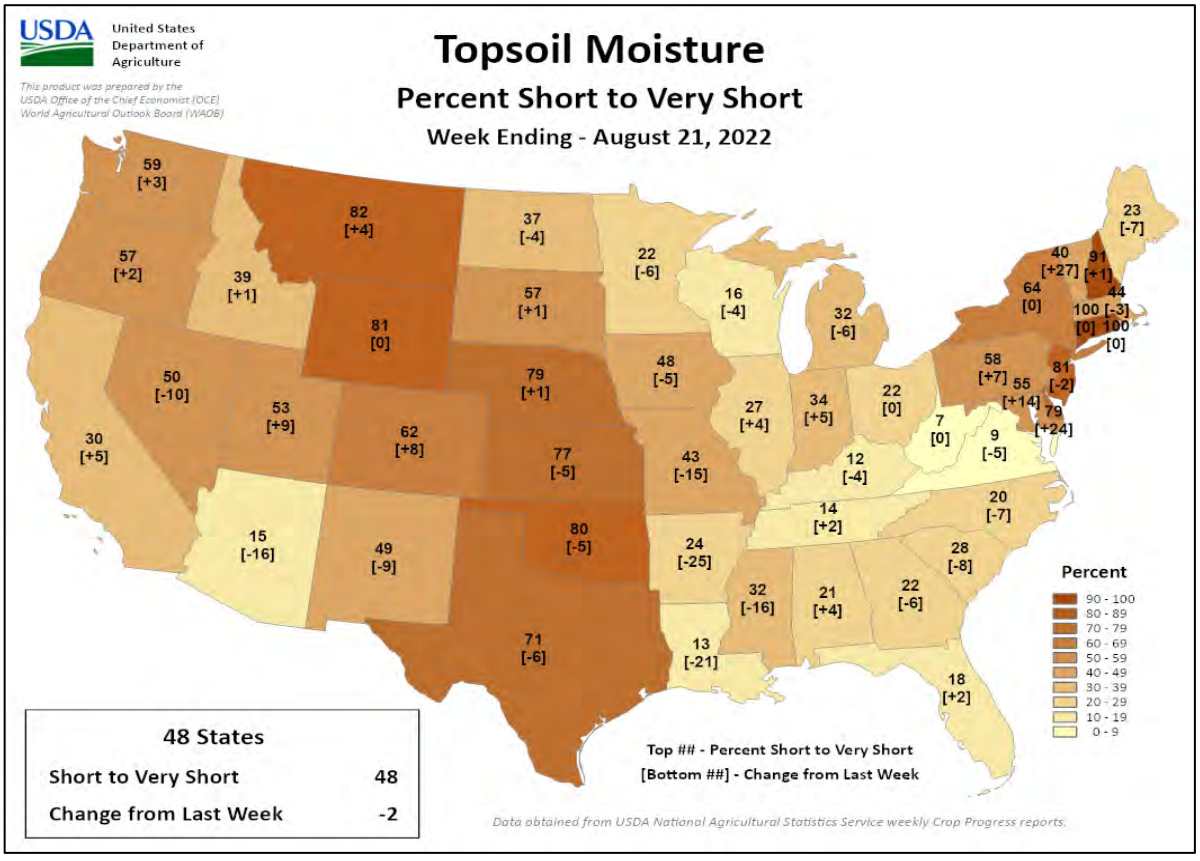


Crop Progress and Condition

Week Ending August 21, 2022

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

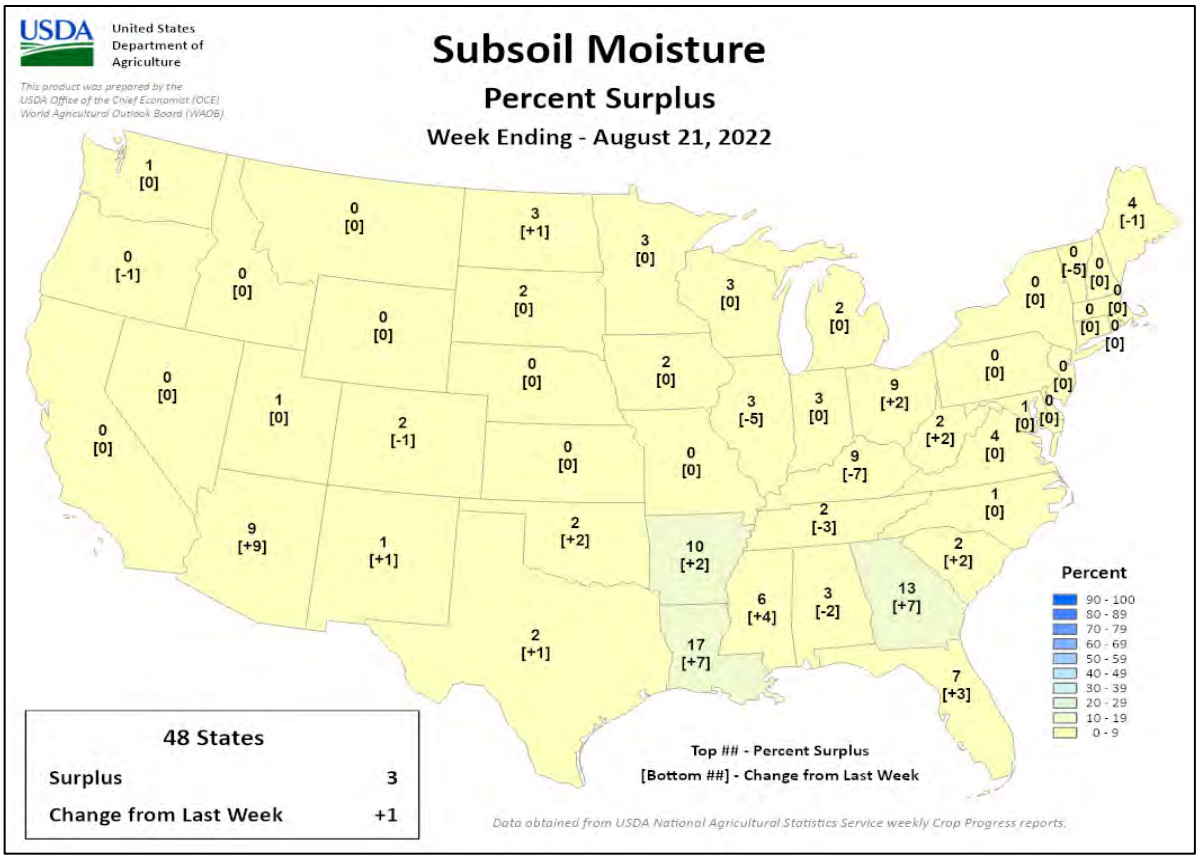


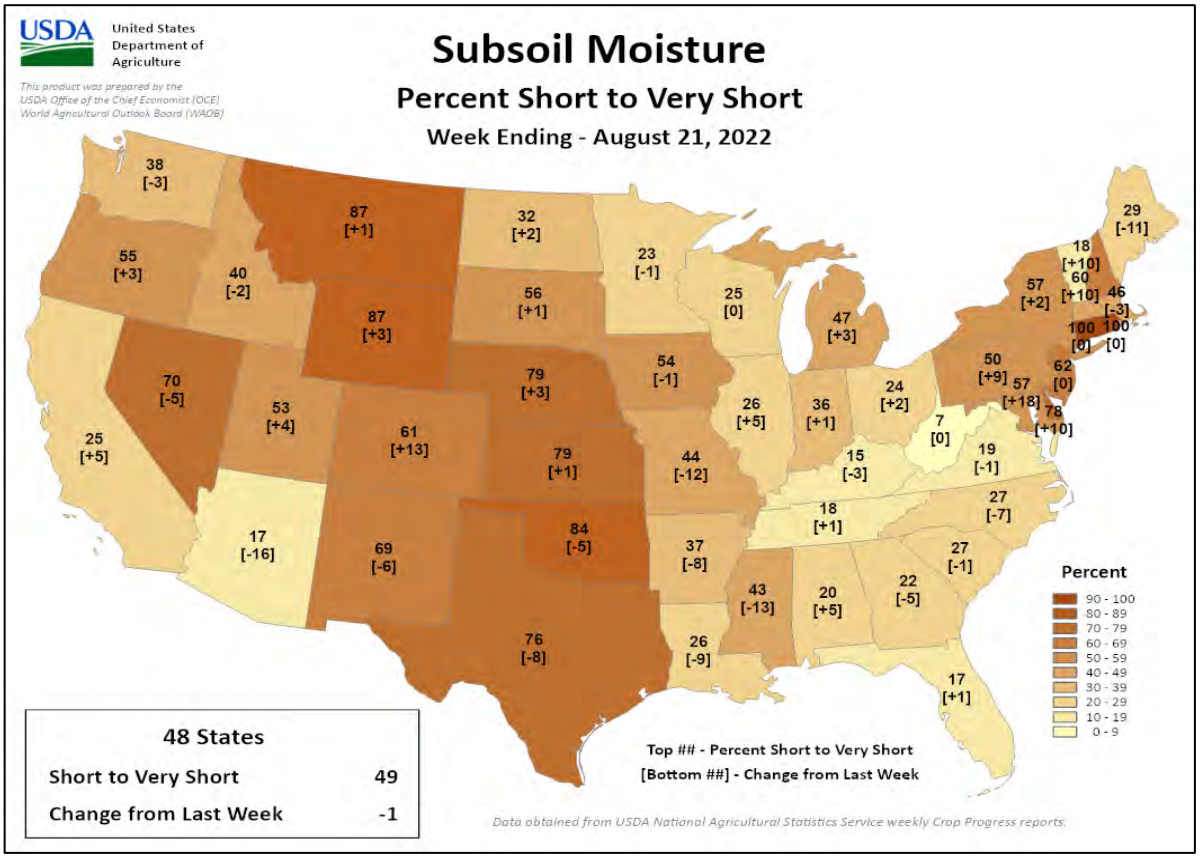


Crop Progress and Condition

Week Ending August 21, 2022

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





International Weather and Crop Summary

August 14-20, 2022

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

HIGHLIGHTS

EUROPE: Rain moistened the topsoil in advance of winter grain and oilseed planting but came too late to help drought-ravaged summer crops.

WESTERN FSU: Widespread showers benefited immature summer crops, while hot weather accelerated the pace of crop development.

EASTERN FSU: Showers maintained moisture supplies for filling spring grains.

MIDDLE EAST: Sunny, warm weather continued to promote maturation of summer crops in Turkey.

SOUTH ASIA: Downpours across central India added to excessive wetness in cotton and oilseed areas.

EAST ASIA: Heat and dryness in southern China exacerbated short-term drought and sustained concerns over reduced yields for some crops.

SOUTHEAST ASIA: Consistent monsoon showers maintained favorable moisture supplies for seasonal rice.

AUSTRALIA: Rain continued to benefit winter grains and oilseeds throughout much of the wheat belt.

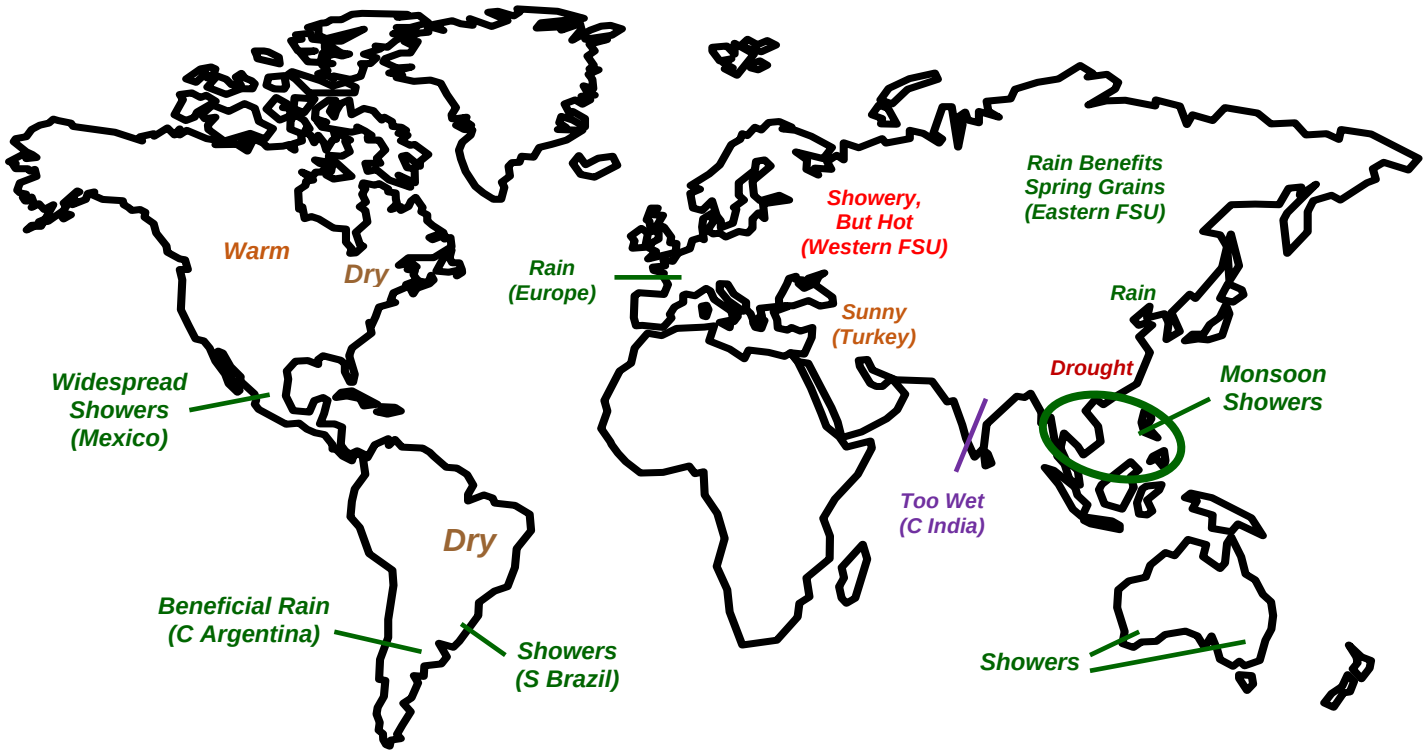
ARGENTINA: Beneficial rain continued in the southern wheat belt.

BRAZIL: Showers increased moisture for immature wheat in southern farming areas.

MEXICO: Locally heavy rainfall brought limited drought relief to the northeast.

CANADIAN PRAIRIES: Warm, sunny weather promoted rapid spring crop development in western production areas.

SOUTHEASTERN CANADA: Unfavorably dry conditions continued in Ontario as corn and soybeans advanced through reproductive and filling stages of development.



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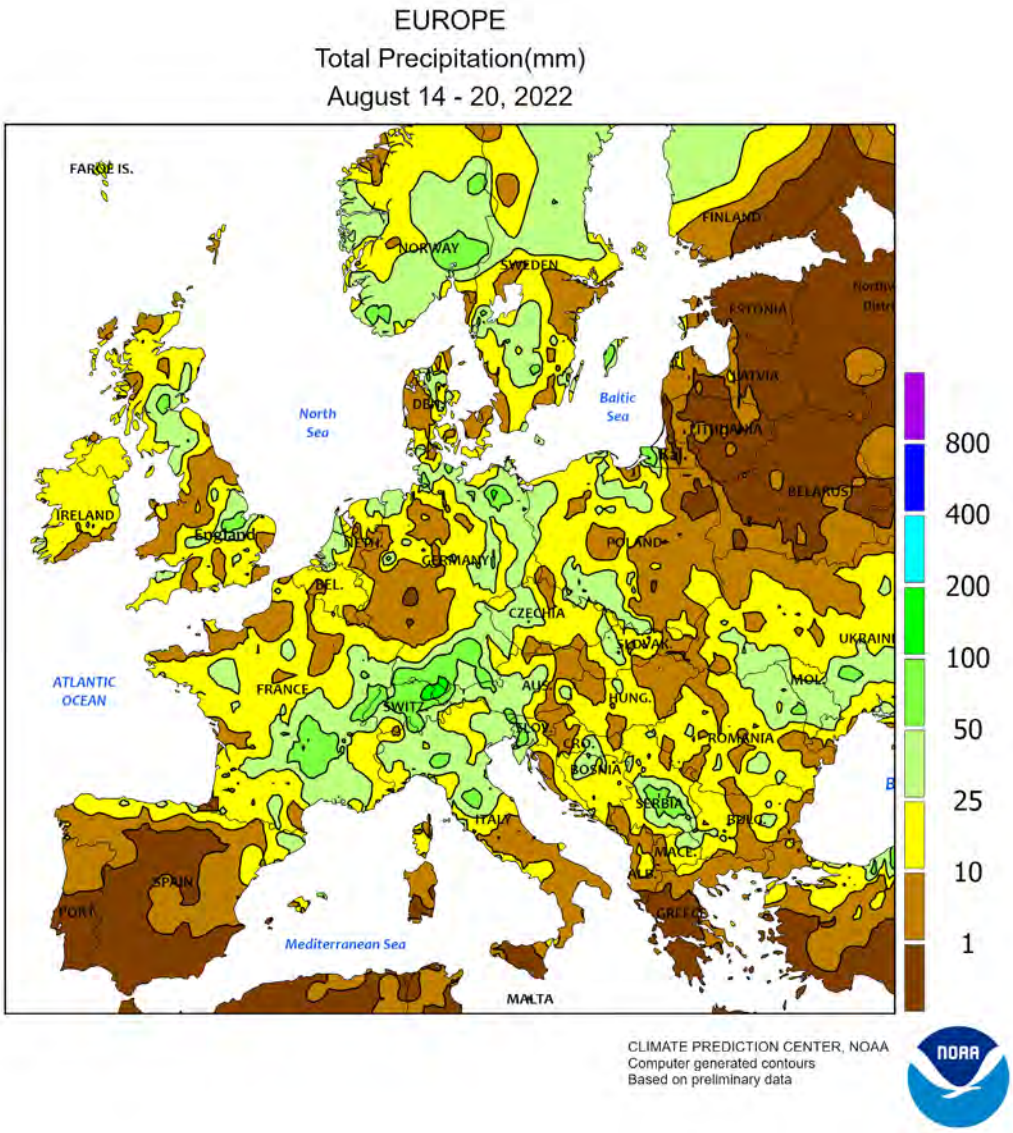

EUROPE

Showers (5-40 mm, locally more) overspread England, France, the Benelux countries, and Germany, helping to moisten the soil in advance of upcoming winter rapeseed planting. The rain came much too late, however, to benefit drought-ravaged summer crops, which were rapidly approaching maturation in western growing areas. Farther south, hot (maximum temperatures in the 30s degrees C), mostly dry weather continued to hasten summer crop maturation on the Iberian Peninsula. In contrast, rainfall (15-85 mm) expanded and intensified across northern Italy, boosting topsoil moisture for winter grain sowing but providing little to no improvement in summer crop prospects. Similarly, showers (5-25 mm or more) in southeastern Europe offered some local drought relief but likely had minimal impact on the yield potential of drought-stressed filling summer crops. In northeastern Europe, scattered showers (5-35 mm) benefited local spring-sown crops, but hot weather increased evaporative losses. Temperatures averaged about 4 to 7°C above normal in the northeast (highs in the lower to middle 30s degrees C) and generally 2 to 4°C above normal in northwestern (highs in the upper 20s to lower 30s degrees C) and southeastern (highs in the middle to upper 30s degrees C) Europe. Near-normal temperatures were observed across Italy and southern France, with maximum temperatures ranging from the upper 20s to lower 30s degrees C.

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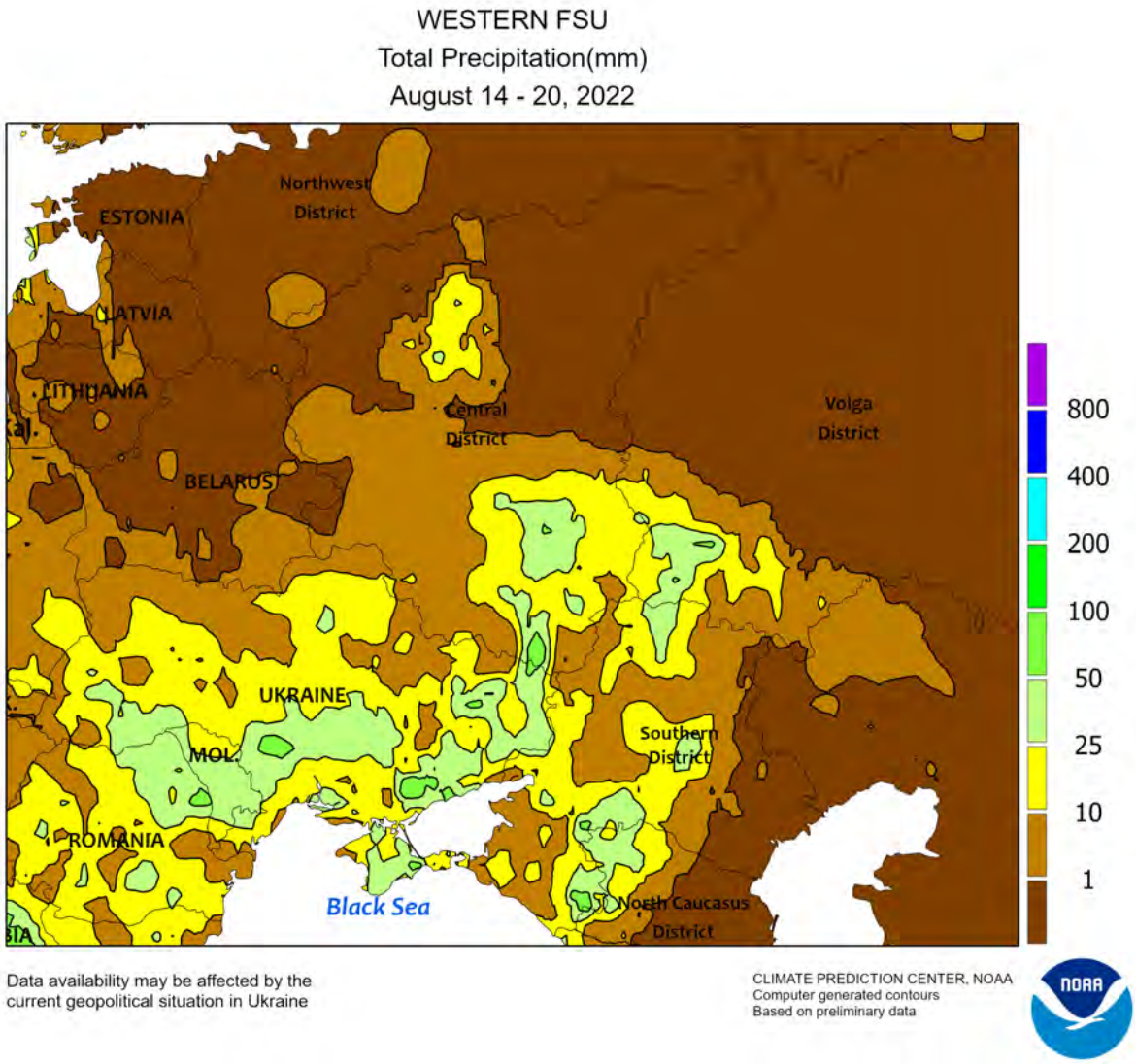

WESTERN FSU

Widespread showers (10-40 mm, locally near 75 mm) continued to benefit immature summer crops in western and central Ukraine and brought some additional drought relief to Moldova, while hot, mostly dry weather overspread Belarus. A band of showers (5-25 mm, locally more) in the Central and Southern Districts of Russia helped maintain local moisture supplies for filling corn and sunflowers, but persistent heat continued to accelerate crop development and increase evaporative losses. Pockets of drier weather in Russia aided maturation of spring wheat and barley. Maximum temperatures were generally in the upper 20s to lower 30s (degrees C) across much of west-central Russia, Belarus, Ukraine, and Moldova. In the Southern District of Russia, however, high temperatures were mostly in the middle to upper 30s.

The WWCB focuses entirely on weather and resultant crop conditions; conflict and unrest are beyond the scope of this publication.

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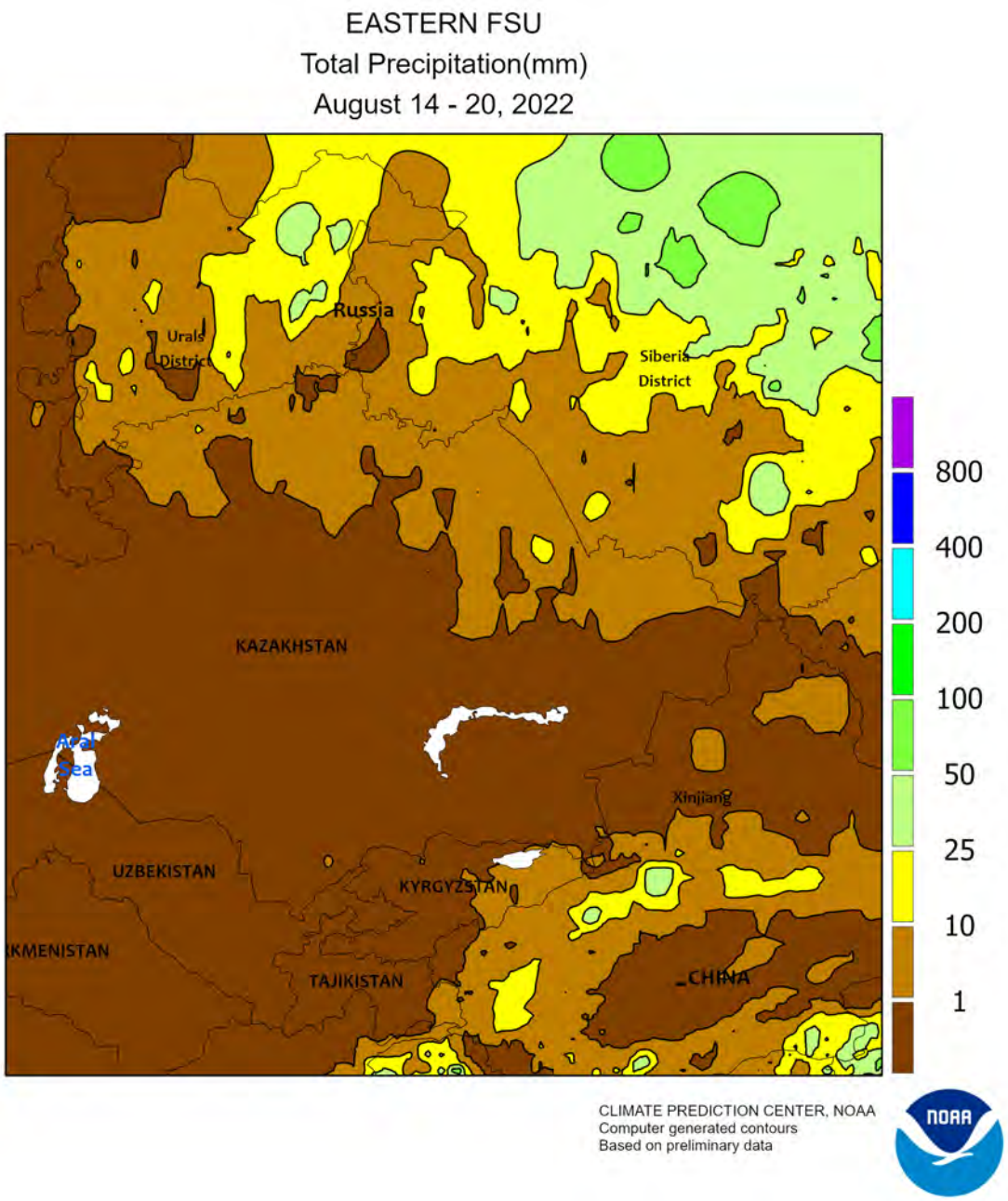

EASTERN FSU

In the Urals and Siberia Districts of Russia, widespread showers (5-25 mm or more) maintained moisture supplies for filling spring wheat and barley. Showers were much lighter and more widely scattered (generally less than 5 mm) across northern Kazakhstan. Nevertheless, a combination of sunny skies and generally adequate soil moisture promoted spring wheat and barley development in this region. Temperatures averaged 2 to 5°C below normal in northern Kazakhstan and central Russia, with maximum temperature ranging from the upper 10s to middle 20s (degrees C) in most areas. Farther south, hot, mostly dry weather in Turkmenistan, Uzbekistan, and Kyrgyzstan favored open boll cotton. Maximum temperatures were generally in the upper 30s and lower 40s.

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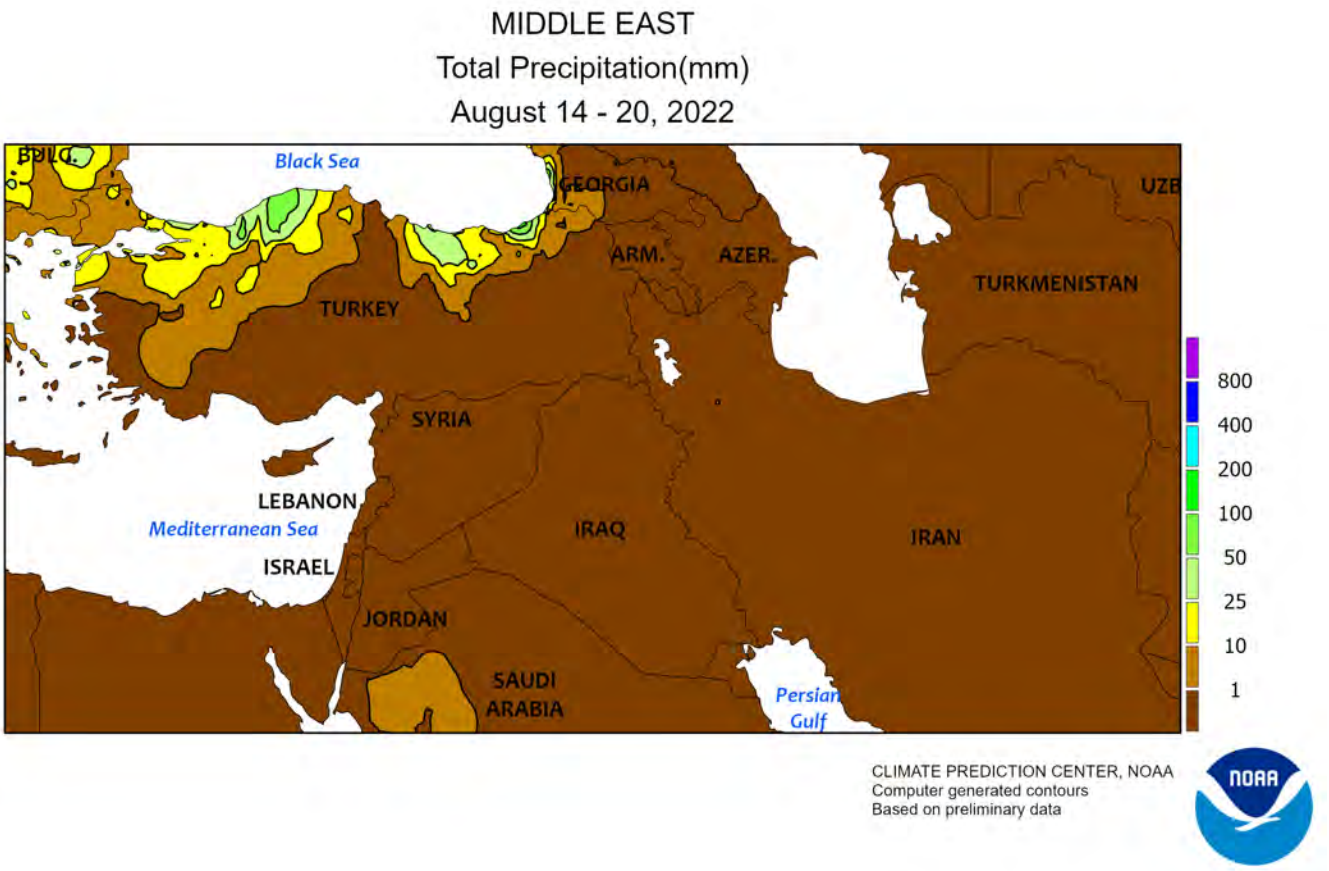

MIDDLE EAST

Continued seasonably dry weather promoted summer crop maturation in Turkey and the surrounding areas. With most of the region experiencing seasonably dry conditions, rainfall was localized to the seasonally wetter northern rim of Turkey. Although the rainfall was primarily confined to the north, some of the wetness extended into the interior and may have briefly slowed fieldwork. Otherwise, above-average temperatures (up to 5°C above average) throughout Turkey and the nearby areas promoted good conditions for crop maturation.

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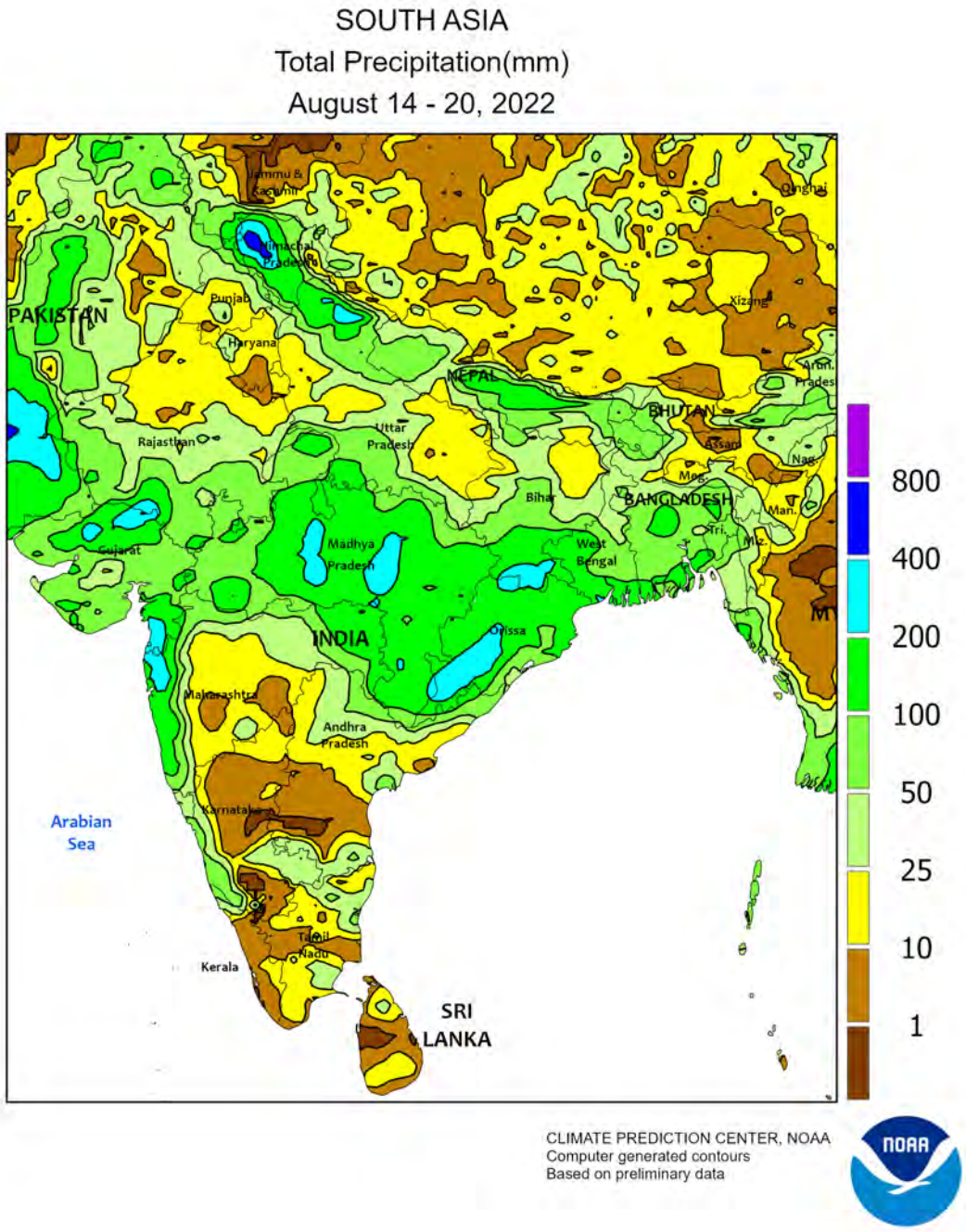

SOUTH ASIA

Waves of monsoonal moisture along with a weak tropical cyclone traversed central India, inundating cotton and oilseed areas already experiencing record wetness. The rainfall (upwards of 300 mm) occurred in a tight band extending from Odisha in the east into southern Pakistan in the west. Planting in India was mostly complete, and the deluge likely caused damage to crops that cannot be overcome through re-planting. This is especially true in southern Pakistan where cotton and other crops are planted much earlier and are now in the later stages of development. While the moisture was welcome in eastern rice areas, the rainfall largely missed northeastern sections (Ganges Basin) experiencing season-long drought.

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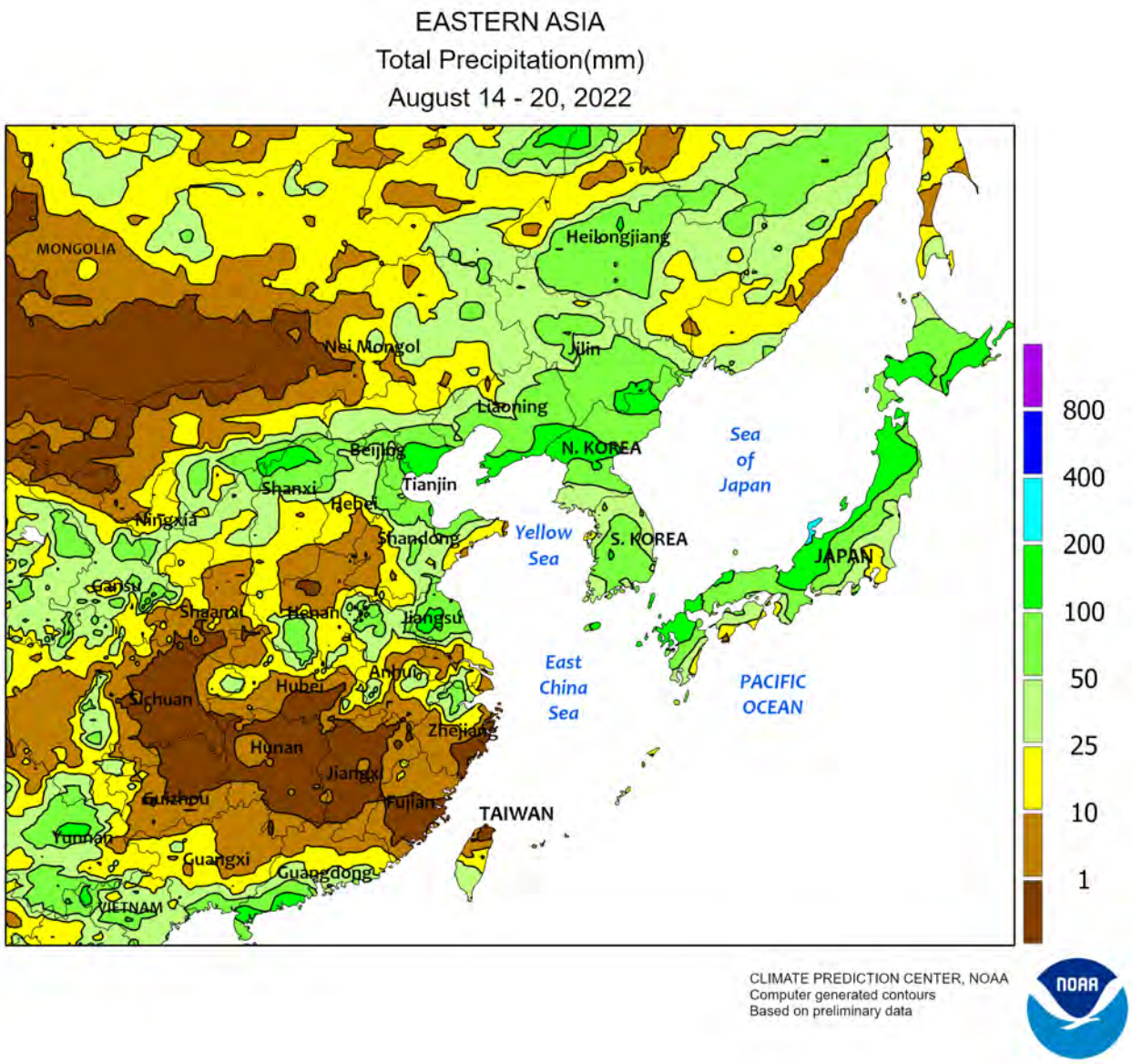

EASTERN ASIA

Hot, dry conditions continued across large swaths of southern China. Rainfall totals in August have been almost nil for some locales (normal precipitation is over 50 mm), with nearly 20 days passing between measurable rain. Additionally, temperatures remained well above normal (up to 10°C above normal), as daytime highs surpassed 40°C (20 consecutive days above 35°C, locally). While most summer crops were in the latter stages of development, the heat and dryness would almost certainly reduce yields of later planted crops including late-crop rice. In contrast, moisture conditions remained generally favorable for filling grains and oilseeds on the North China Plain, although bouts of heat (above 35°C) caused stress here as well. Farther north, consistent showers (10-50 mm or more) sustained ample soil moisture for filling summer crops and favorable yield prospects; rainfall totals since July 1 were at a 30-year high in Jilin and Liaoning. Elsewhere, passing showers (up to 25 mm) in western China created some unfavorably wet conditions for maturing cotton, though the yield outlook remained better than last year. Meanwhile, waves of monsoonal moisture moved through the Korean Peninsula and Japan, producing 50 to 100 mm of rain in most areas and benefiting immature rice and other summer crops.

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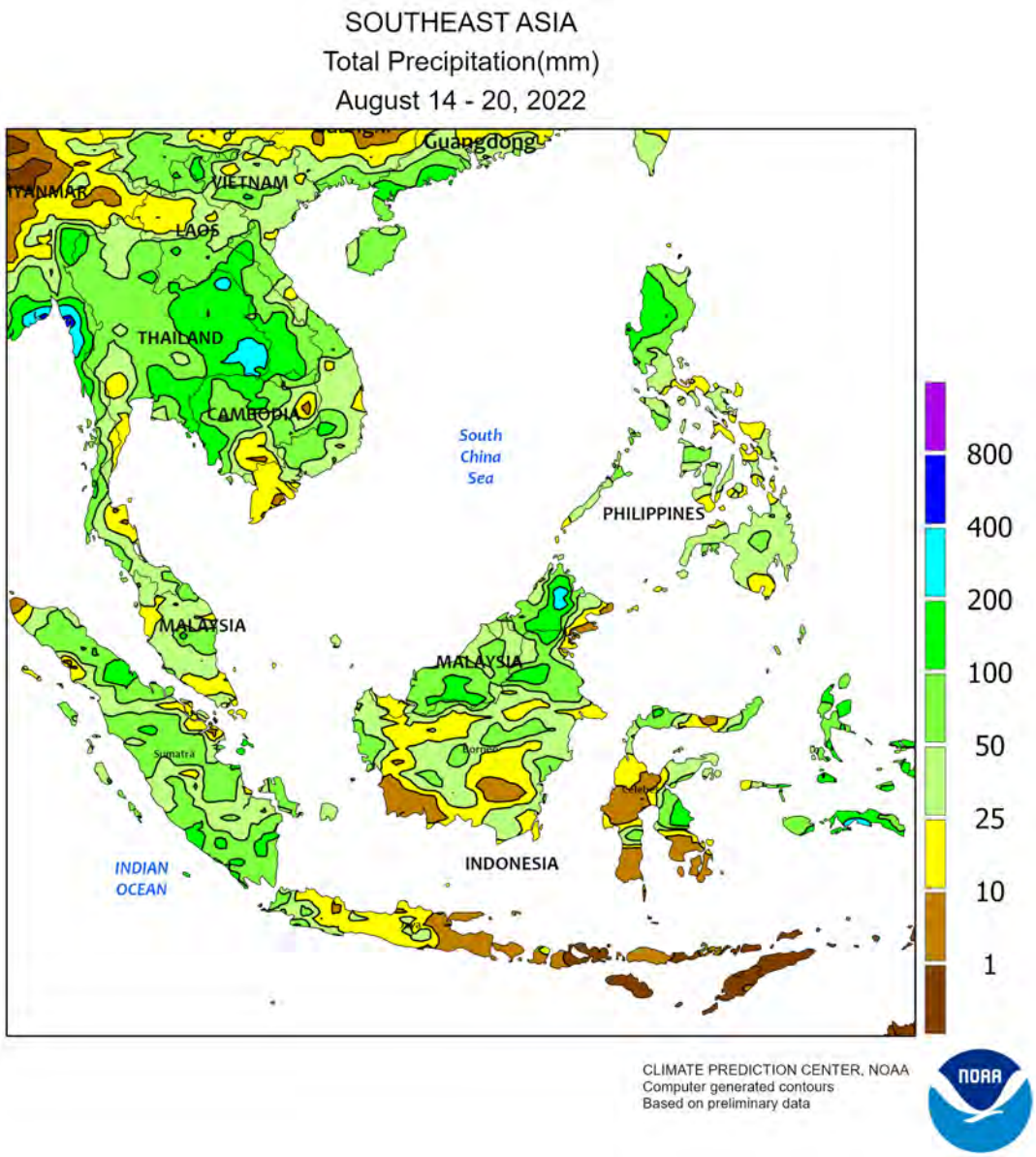

SOUTHEAST ASIA

Waves of monsoonal moisture moved westward across the northern Philippines and through Thailand. The seasonable downpours (over 150 mm, locally) added to favorable moisture supplies for seasonal rice nearing reproduction. Additionally, the rainfall helped replenish irrigation supplies (reservoirs) for dry-season cropping in the winter. However, despite the heavy rain in the traditionally wet northwestern Philippines, rainfall totals (since June 1) remained well below average (60 percent of normal). Furthermore, the recent rain was lighter than usual in areas south of Luzon. Elsewhere, showers (25-100 mm) in Malaysia and Indonesia sustained adequate soil moisture for oil palm as a key harvest period rapidly approaches.

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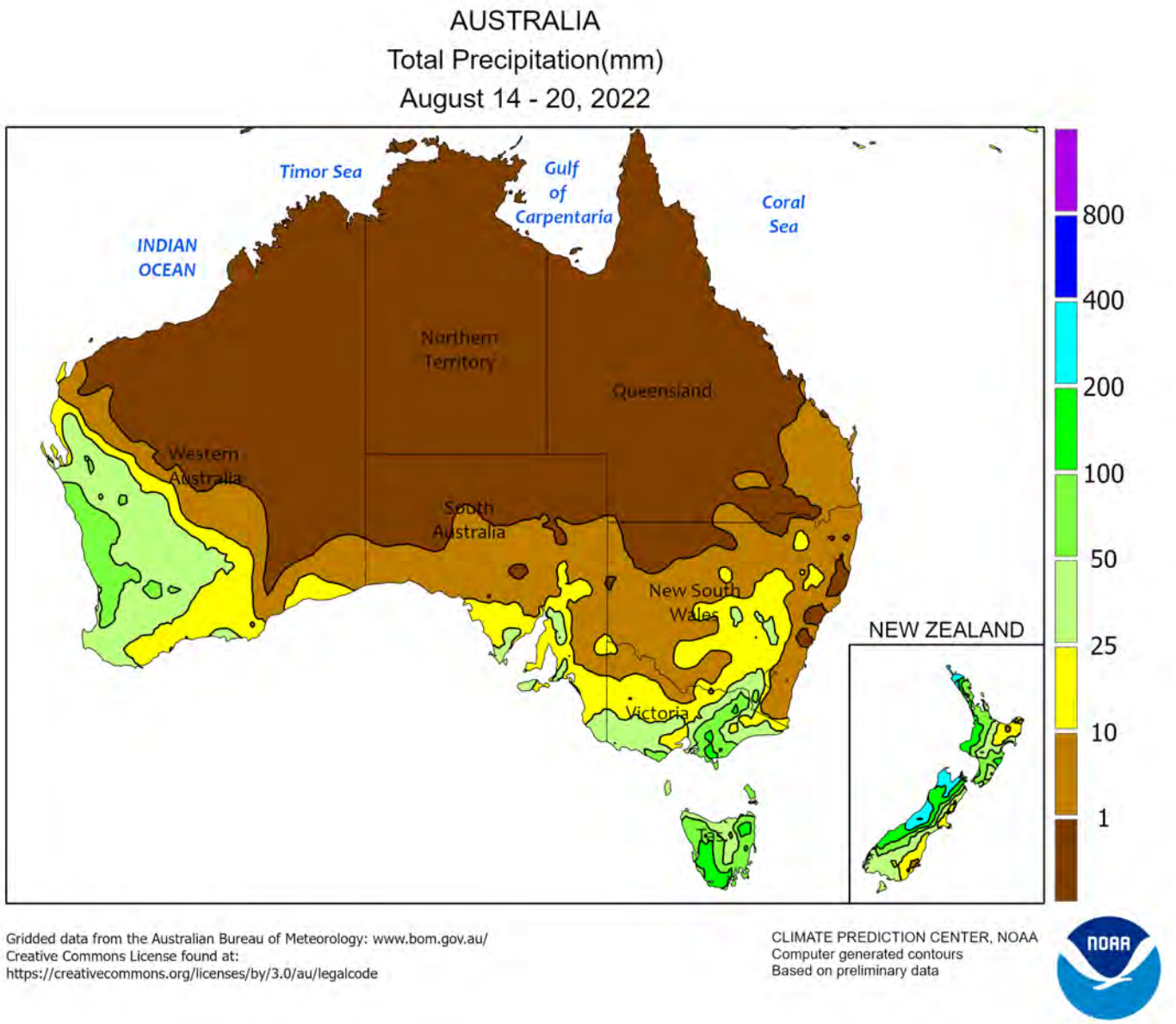

AUSTRALIA

Widespread, soaking rain (20-50 mm, locally higher) further increased soil moisture for winter grains and oilseeds in Western Australia. The rain helped sustain good to excellent crop conditions and yield prospects, as winter crops entered or approached the reproductive stages of development. Seasonably warm weather favored crop development, with maximum temperatures generally in the lower 20s (degrees C) and minimum temperatures remaining above freezing. Elsewhere in the wheat belt, widespread showers (10-25 mm, locally more) also fell across South Australia, Victoria, and central and southern New South Wales, benefiting wheat, barley, and canola. Similar to Western Australia, temperatures averaged near normal in the southeast, with maximum temperatures in the middle to upper 10s and overnight lows staying above freezing. In northern New South Wales and southern Queensland, mostly dry, albeit somewhat cooler-than-normal weather (about 1-2°C below normal) promoted wheat development and facilitated fieldwork, including early preparations for upcoming summer crop sowing. Maximum temperatures were generally in the lower to middle 20s.

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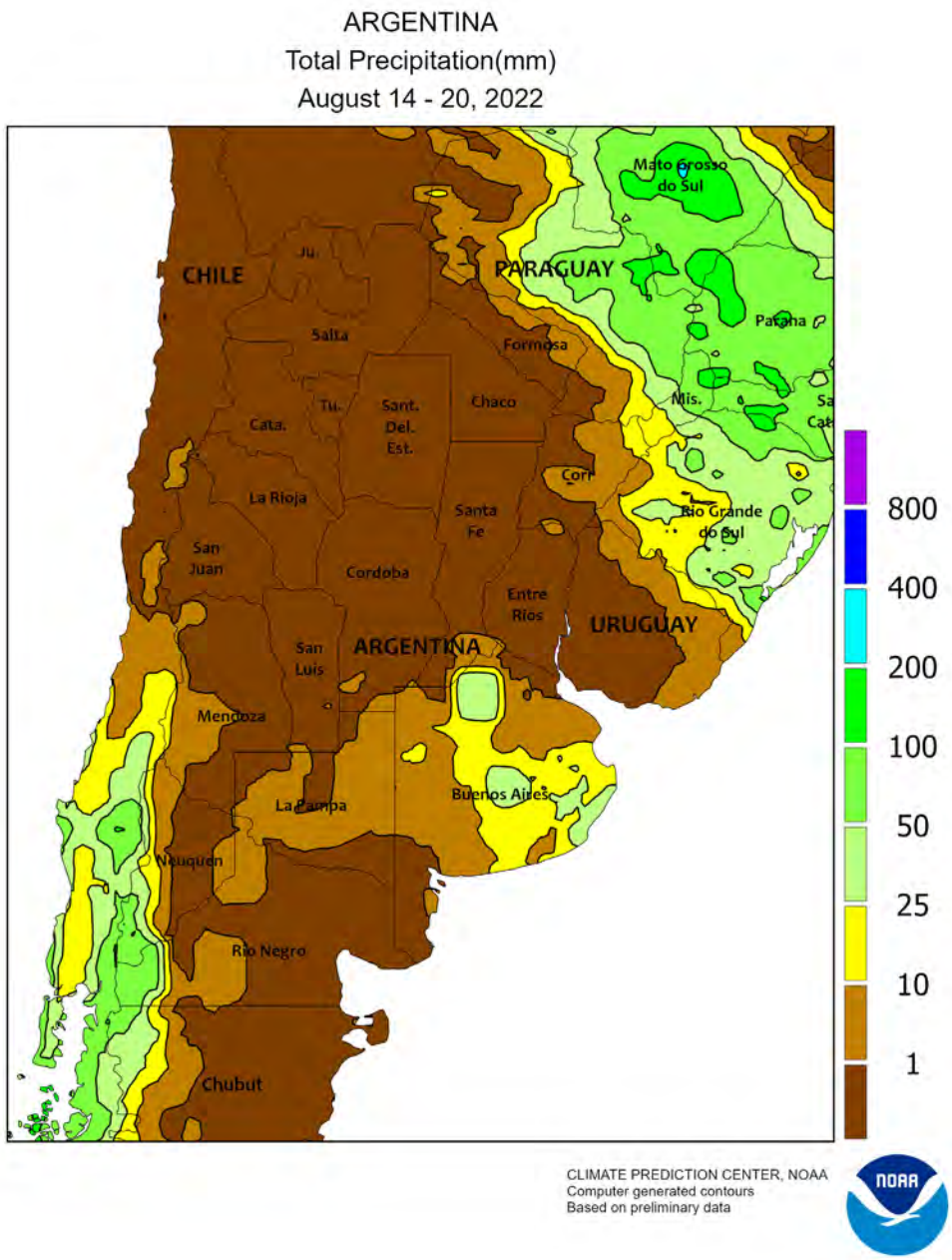

ARGENTINA

Showers benefited winter grains in Buenos Aires, while dry weather dominated other major farming areas. Rainfall totaled 10 to 60 mm in north-central and southeastern portions of the state, with lighter amounts (mostly 1-7 mm) recorded in western Buenos Aires and in La Pampa. Dry weather prevailed elsewhere, however, including other parts of central Argentina that recorded beneficial rainfall the previous week. Weekly average temperatures were highly variable; highest daytime temperatures ranged from the low 20s (degrees C) in southern farmlands of Buenos Aires to the upper 30s in Formosa, with freezes common in most agricultural districts. According to the government of Argentina, corn was 97 percent harvested as of August 18, while cotton harvesting had reached completion.

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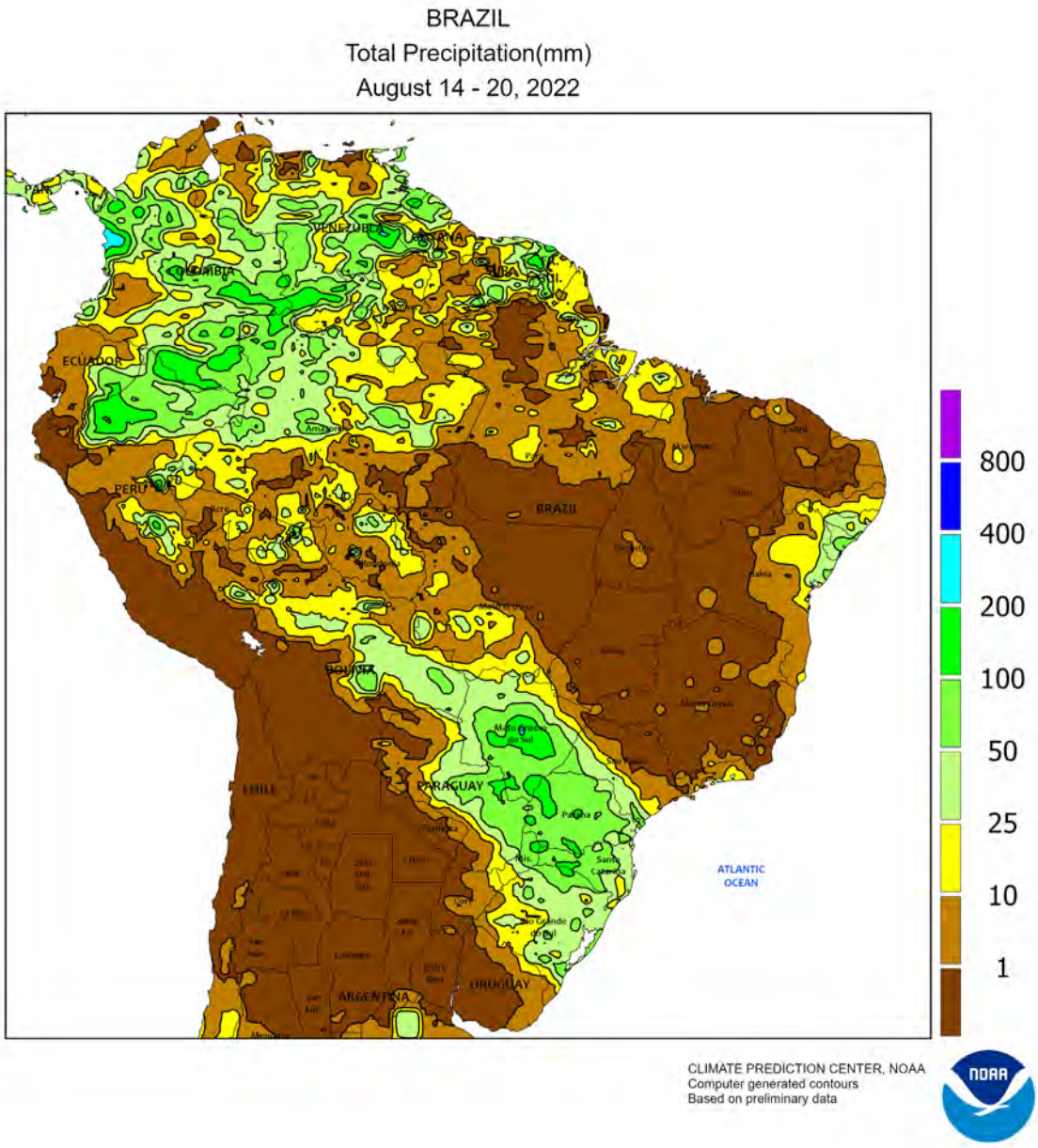

BRAZIL

A surge in rainfall provided timely moisture for wheat in southwestern Brazil, as drier weather elsewhere favored harvesting of cotton and specialty crops. Rainfall totaled 10 to 50 mm – locally higher – from Rio Grande do Sul northward to southern sections of Mato Grosso. Cool weather accompanied the moisture, with frost (temperatures of 0°C or lower) common as far north as Mato Grosso do Sul. According to the government of Paraná, second-crop corn was 79 percent harvested as of August 16; meanwhile, only 1 percent of wheat was harvested, with much of the crop still in vulnerable stages of development. Meanwhile, dry weather favored fieldwork elsewhere, including in sugarcane and coffee areas of southeastern Brazil (São Paulo and Minas Gerais). According to the government of Mato Grosso, cotton was 90 percent harvested as of August 19, compared with 67 percent last year.

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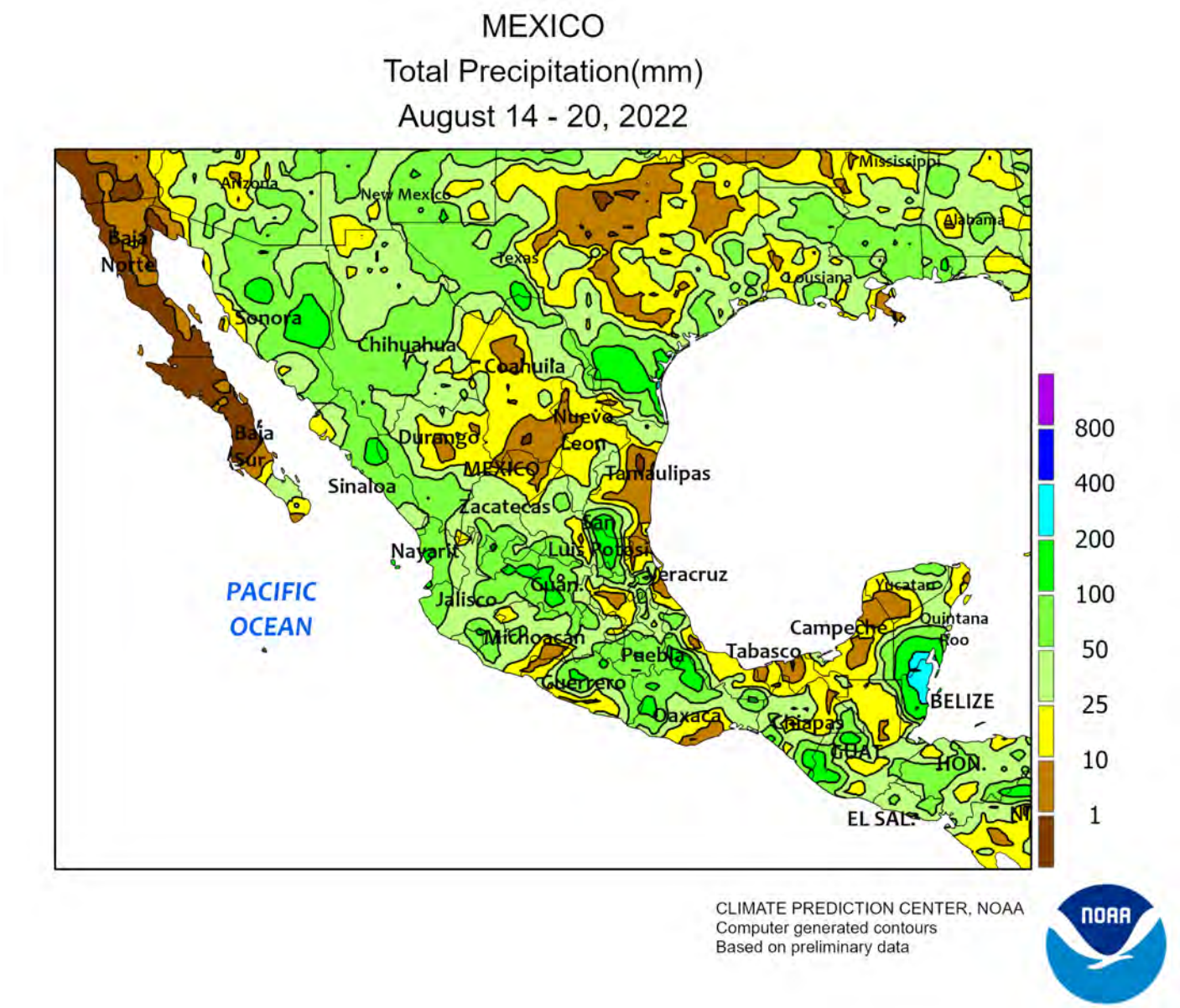

MEXICO

Tropical moisture spread across northern-most Mexico, increasing local reservoir levels but providing only limited drought relief in the northeast. At week's end, an unnamed tropical cyclone approaching the Gulf Coast funneled moisture into the region along the border with the United States. As a result, rainfall totaling more than 50 mm spread from northern Tamaulipas westward across northern sections of Coahuila and Chihuahua. However, pockets of dryness continued in the vicinity of southern Coahuila and central Tamaulipas. Widespread, locally heavy showers were prevalent elsewhere, including drought-affected crop areas in and around San Luis Potosí. Moderate to heavy showers (25-100 mm) also fell in previously dry sections of the southern plateau, notably Puebla, benefiting corn and other immature, rain-fed summer crops. Similarly, heavy monsoon showers (locally exceeding 100 mm) spread northward from southern Durango northward through Sonora, further increasing reservoir levels in key winter grain production areas.

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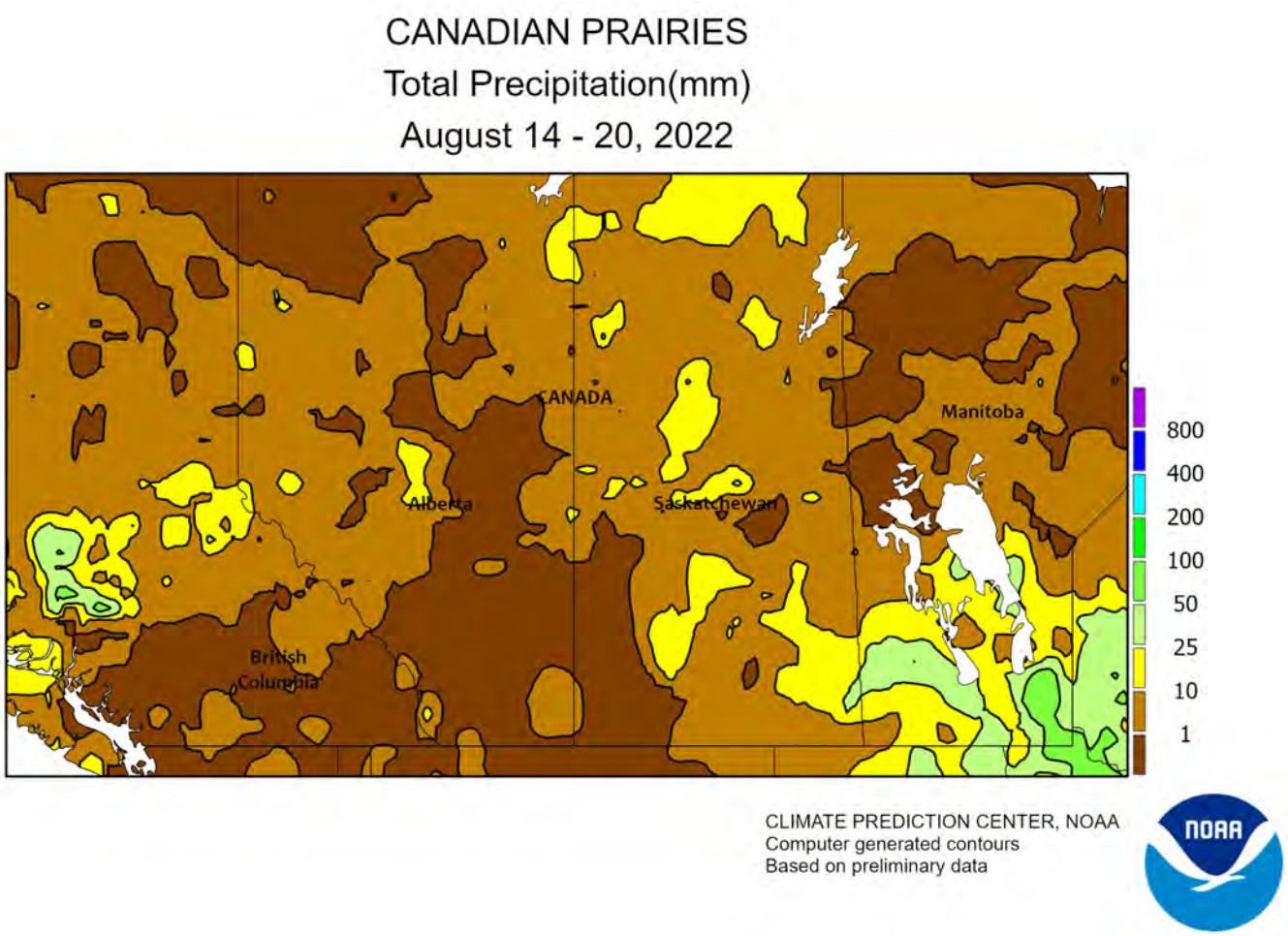

CANADIAN PRAIRIES

Unseasonable warmth maintained rapid rates of spring crop development. Weekly temperatures averaged from 2°C above normal in the southeastern Prairies to at least 5°C above normal over much of Alberta. Daytime highs again reached the middle 30s (degrees C) in the southwest (southwestern Saskatchewan and southeastern Alberta), while temperatures were more seasonable (highest daytime temperatures ranging from 27-33°C) in Manitoba and eastern Saskatchewan. Dry weather accompanied the dryness in the southwest, reducing moisture for late-developing crops and forage, but light to moderate rain (locally exceeding 25 mm) fell elsewhere, with highest amounts concentrated over southern Manitoba. According to the government of Saskatchewan, 17 percent of spring crops were harvested in southwestern agricultural districts as of August 15.

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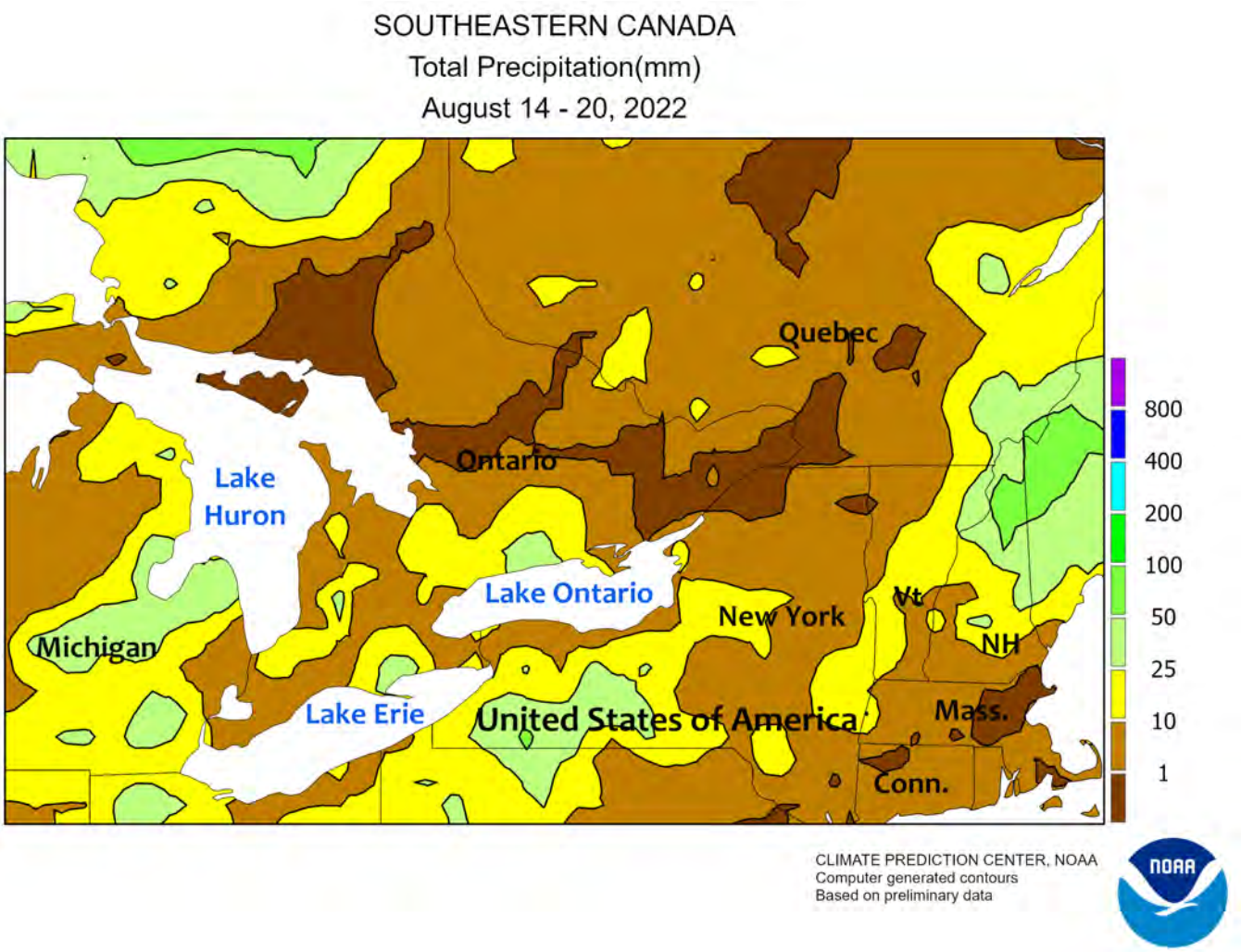

SOUTHEASTERN CANADA

Unseasonable dryness continued in Ontario, where moisture remained limited for summer crops advancing through reproduction. Little to no rain was recorded across the region, including Quebec, with just a few locations recording more than 10 mm. Weekly average temperatures were near to above normal, with highest daytime temperatures ranging from the upper 20s to lower 30s (degrees C). Nighttime lows dropped below 10°C in much of Quebec and Ontario's traditionally cooler farming areas, but temperatures stayed well above freezing.

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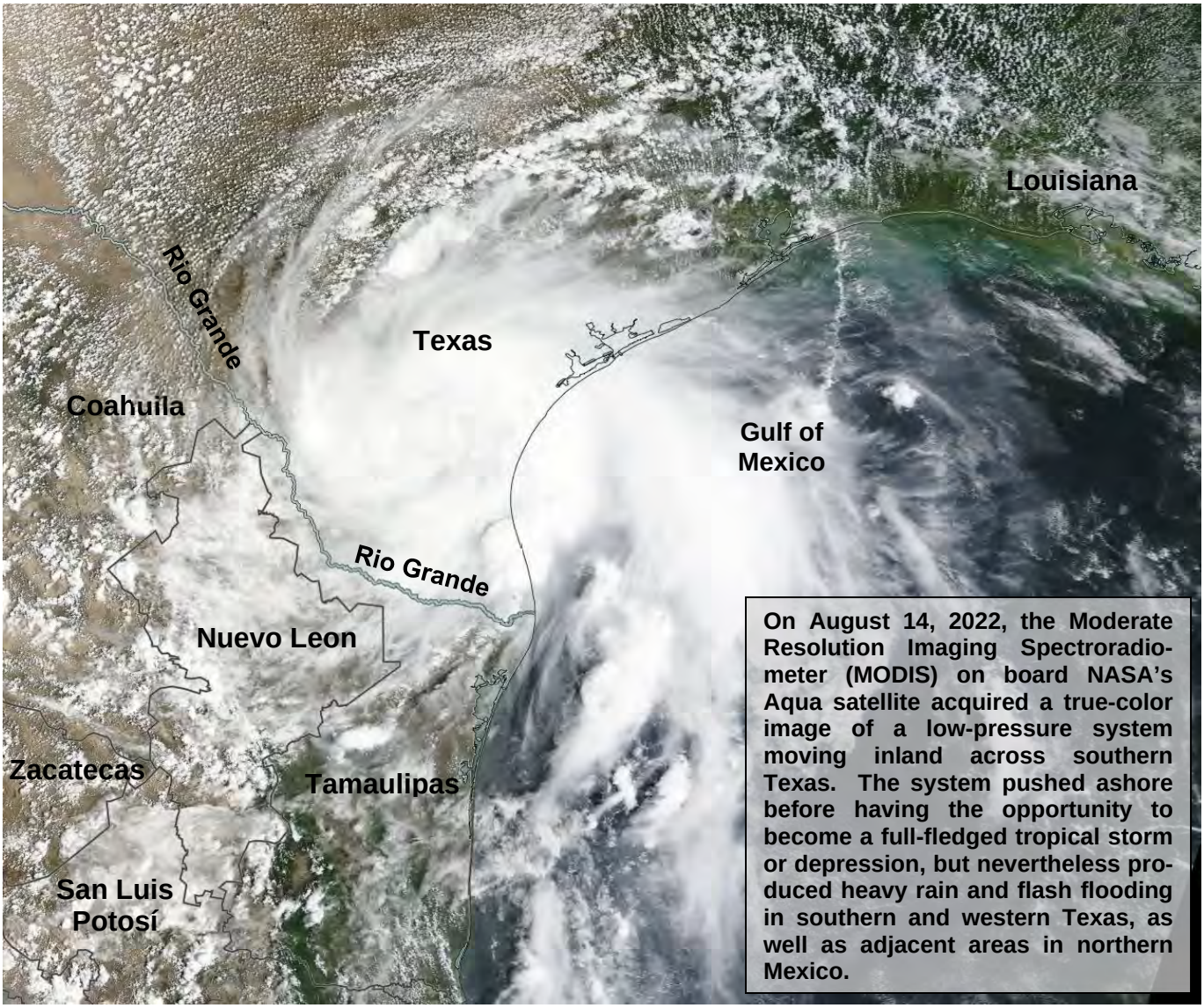

On August 14, 2022, the Moderate Resolution Imaging Spectroradiometer (MODIS) on board NASA's Aqua satellite acquired a true-color image of a low-pressure system moving inland across southern Texas. The system pushed ashore before having the opportunity to become a full-fledged tropical storm or depression, but nevertheless produced heavy rain and flash flooding in southern and western Texas, as well as adjacent areas in northern Mexico.

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