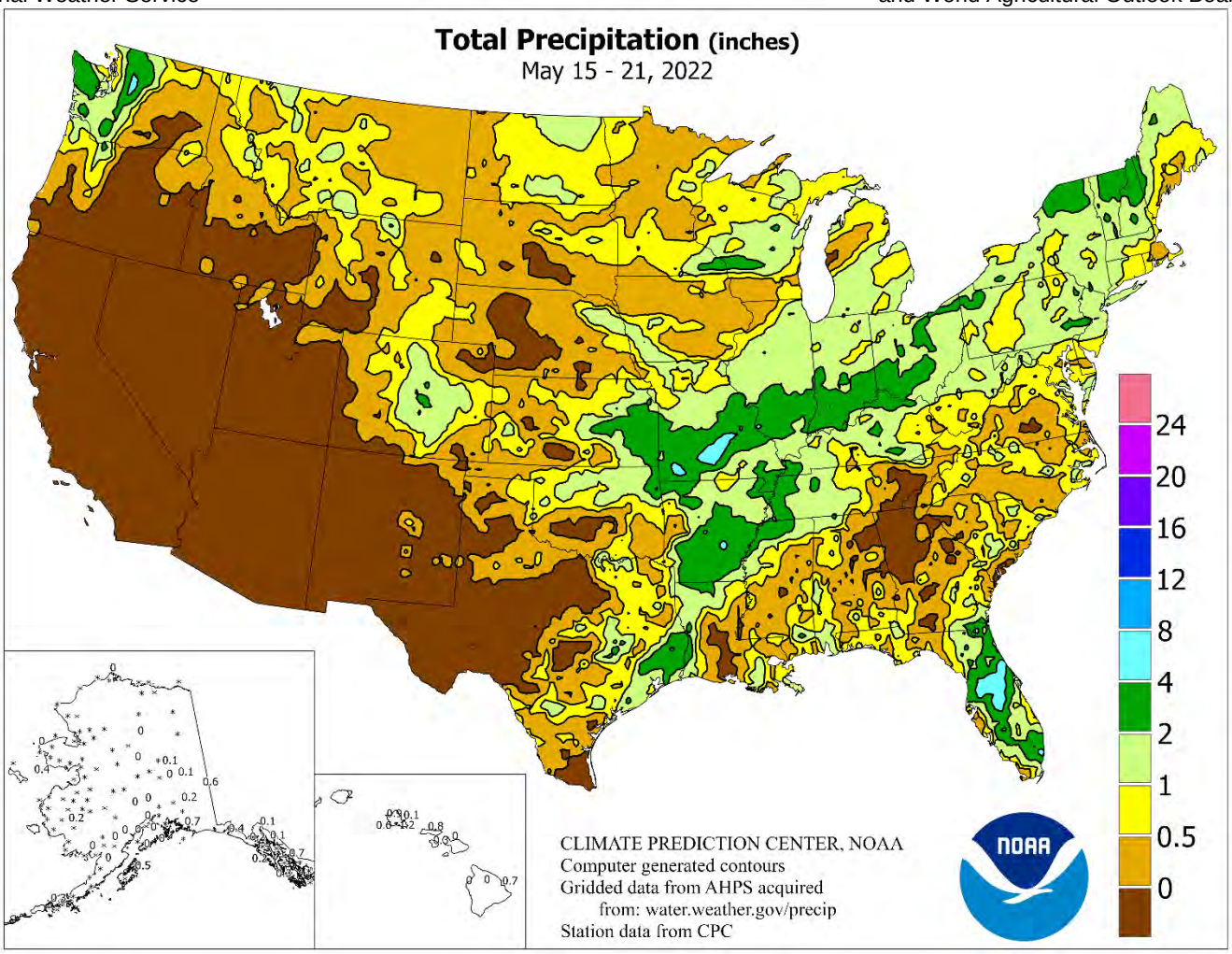
Volume 109, No. 21 www.usda.gov/oce/weather-drought-monitor May 24, 2022

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

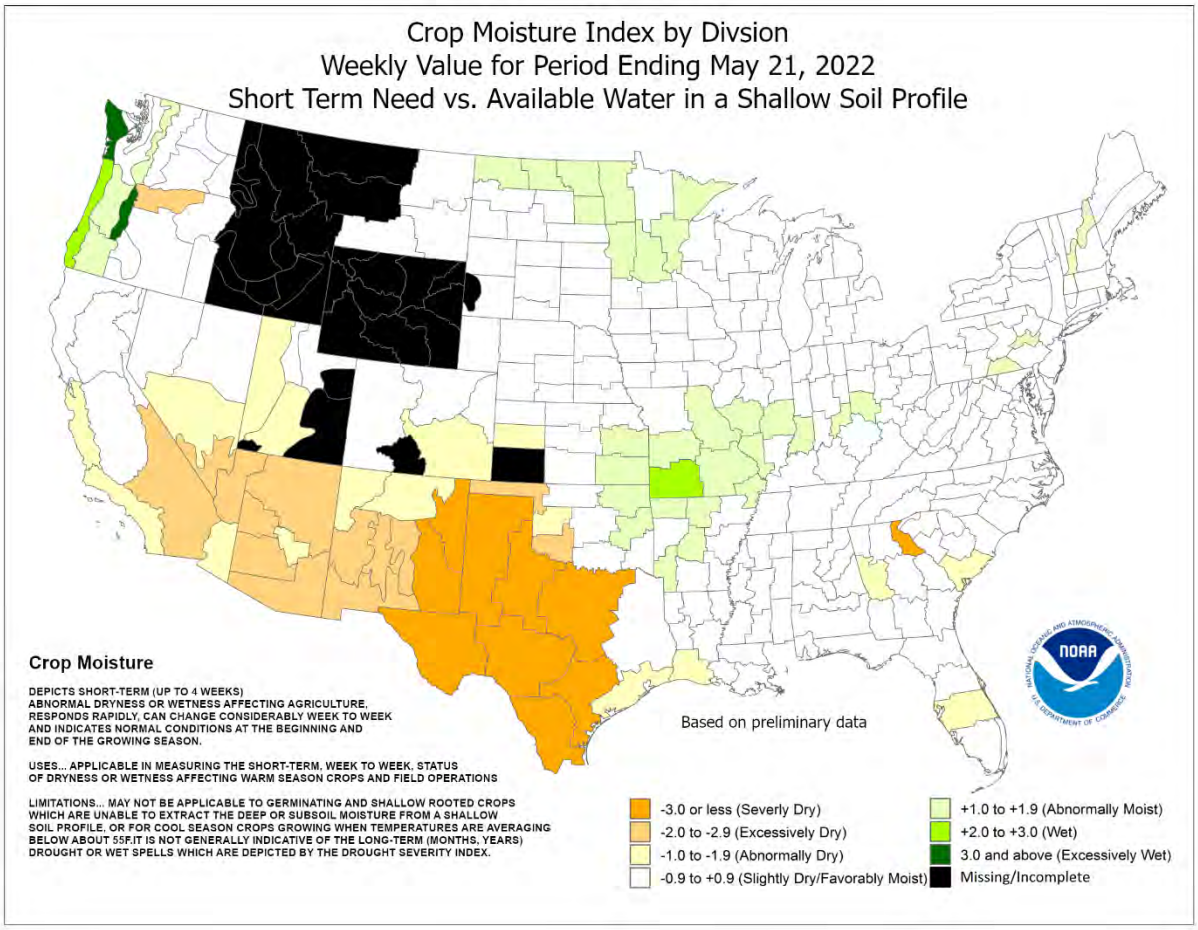
May 15 – 21, 2022

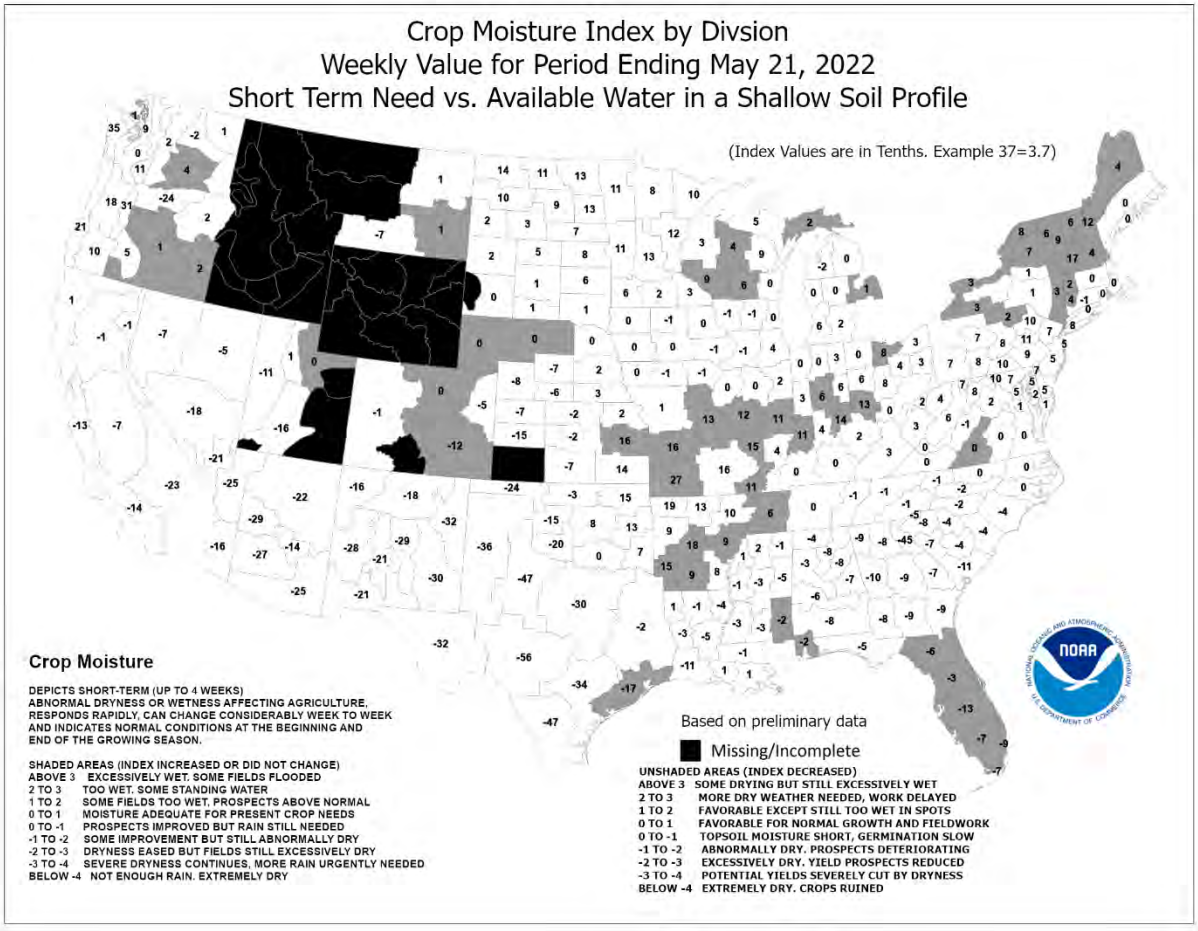
Highlights provided by USDA/WAOB

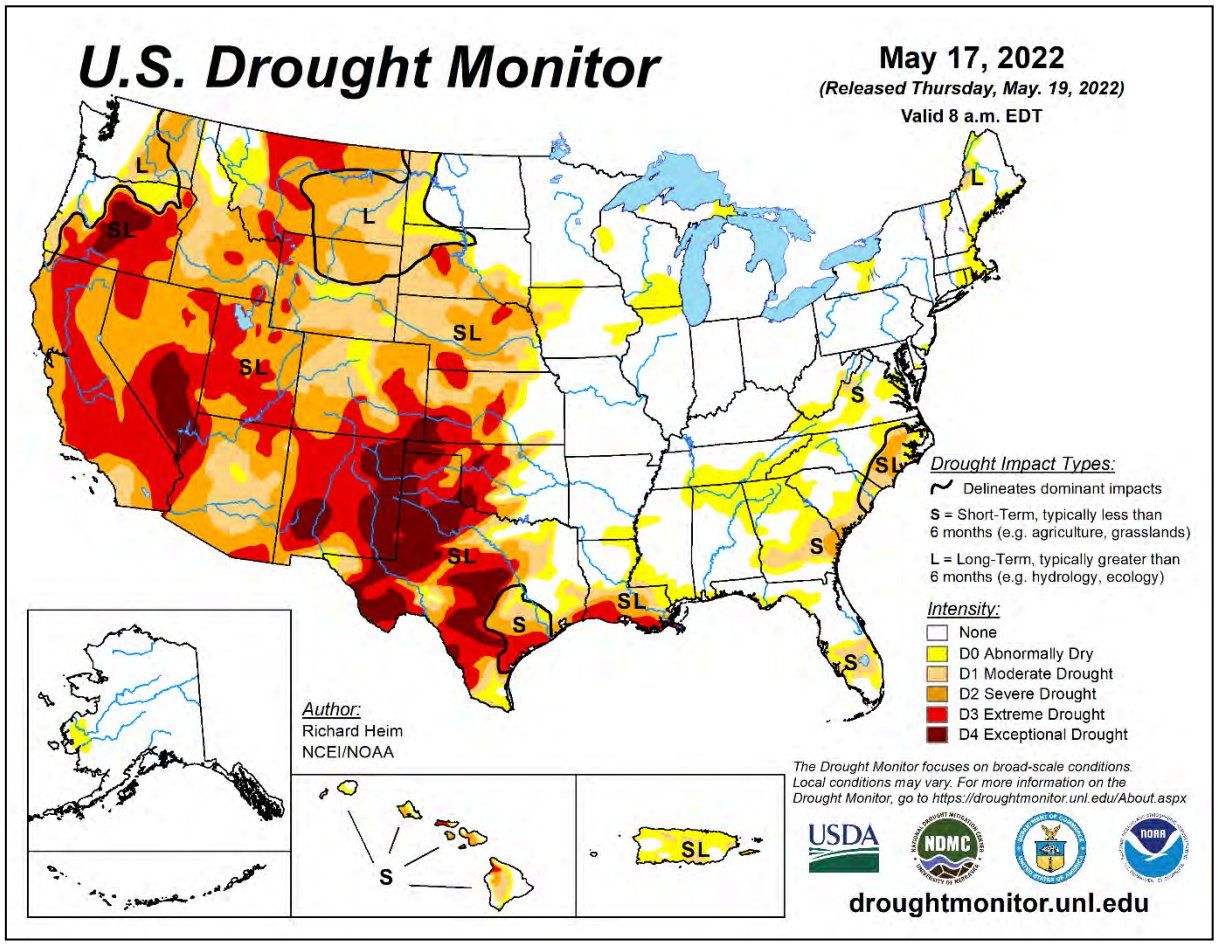
Widespread precipitation fell in the **Northwest** and from the **northern and central Rockies eastward**, with the heaviest rain (locally 2 to 4 inches or more) soaking the **mid-South** and **lower Midwest**. Heavy rain also drenched **Florida's peninsula** and parts of the **Northeast**. Late in the week, snow blanketed a few areas, including the **central Rockies** and adjacent **High Plains**. As field conditions permitted, producers planted between showers. However, fields remained especially cool and wet in the **Red River Valley** and environs, leading to extensive

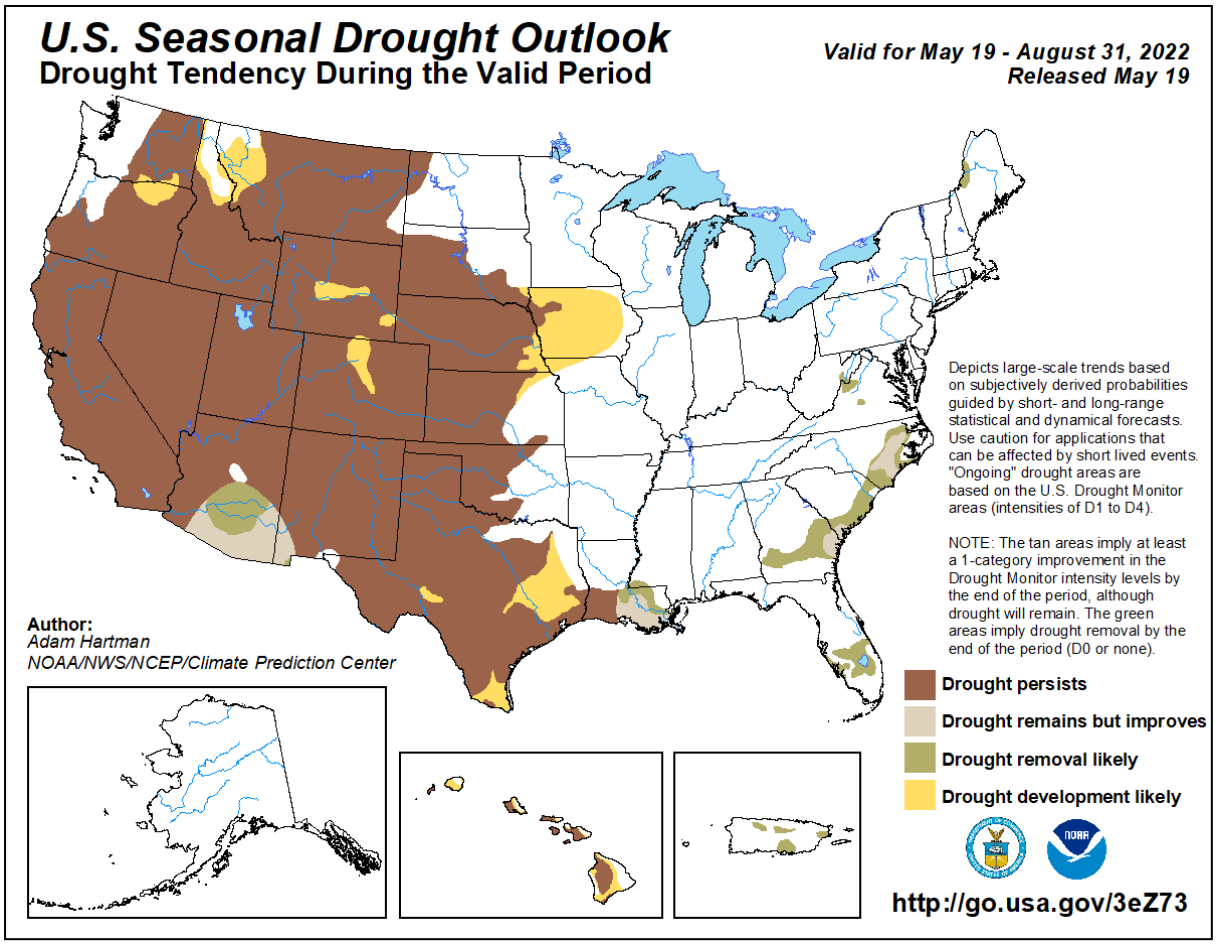
(Continued on page 5)

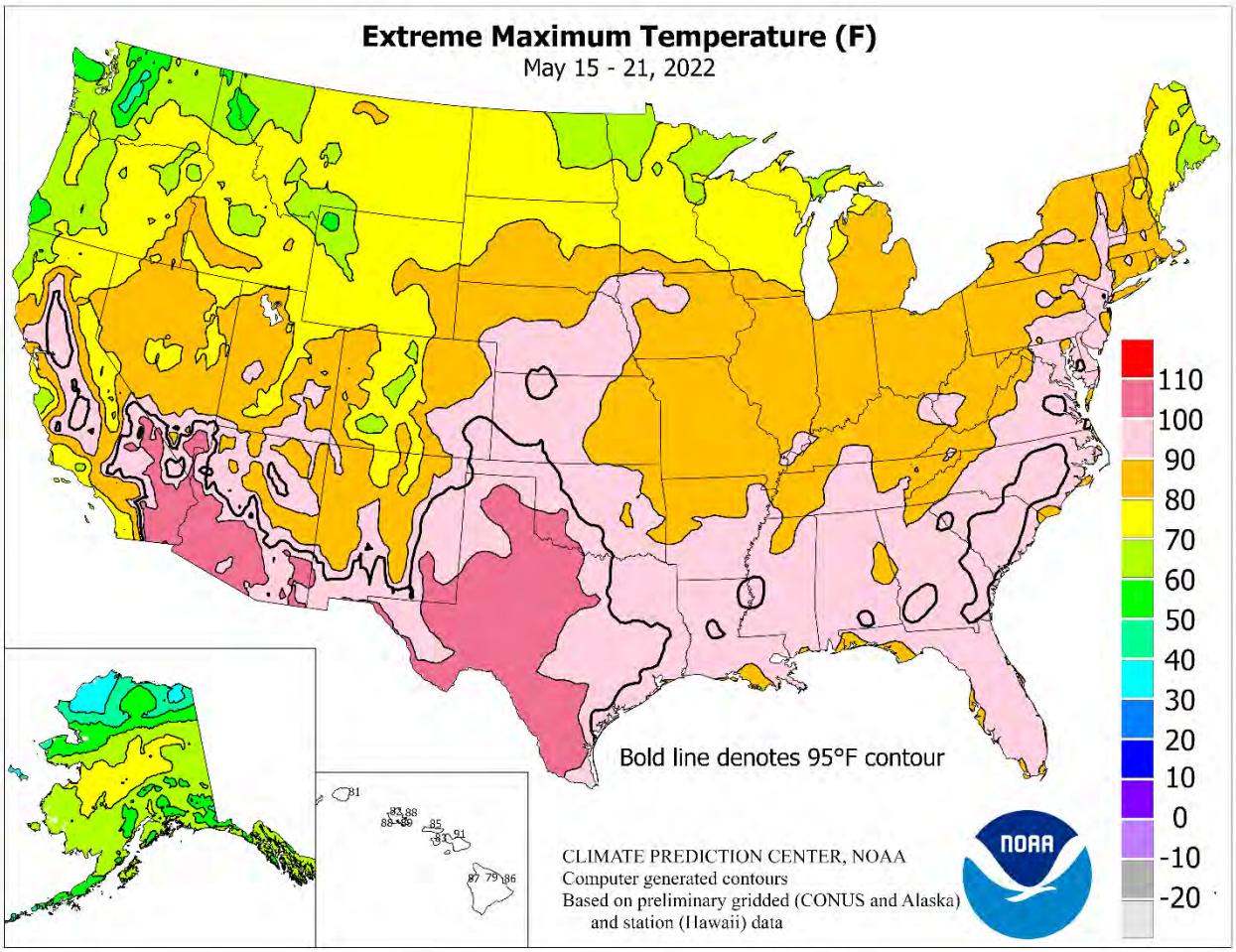
Contents

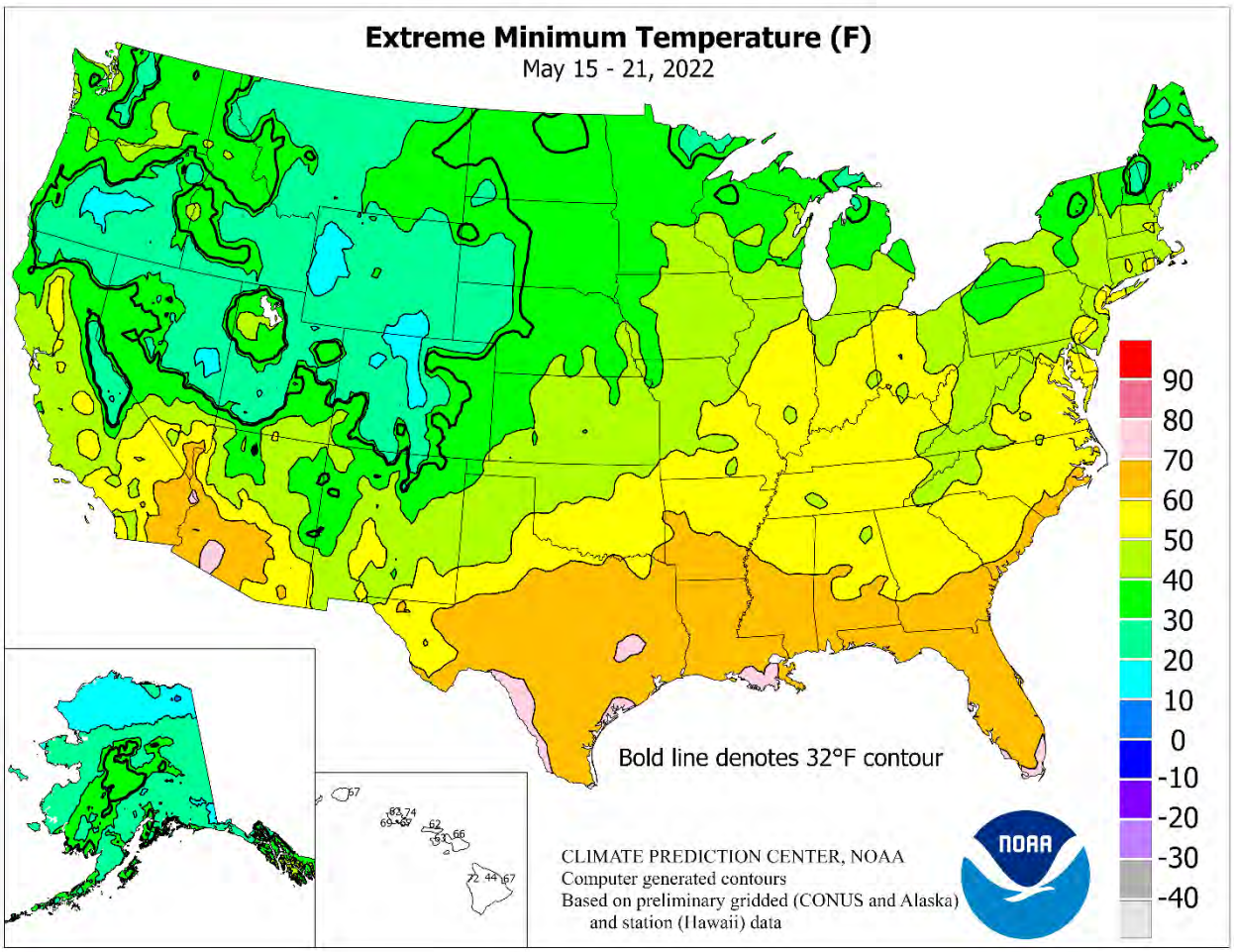

Crop Moisture Index by Divsion
Weekly Value for Period Ending May 21, 2022
Short Term Need vs. Available Water in a Shallow Soil Profile
Crop Moisture
DEPICTS SHORT-TERM (UP TO 4 WEEKS) ABNORMAL DRYNESS OR WETNESS AFFECTING AGRICULTURE, RESPONDS RAPIDLY, CAN CHANGE CONSIDERABLY WEEK TO WEEK AND INDICATES 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


Crop Moisture Index by Divsion
Weekly Value for Period Ending May 21, 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


U.S. Drought Monitor
May 17, 2022
(Released Thursday, May. 19, 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 Heim
NCEI/NOAA
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
droughtmonitor.unl.edu

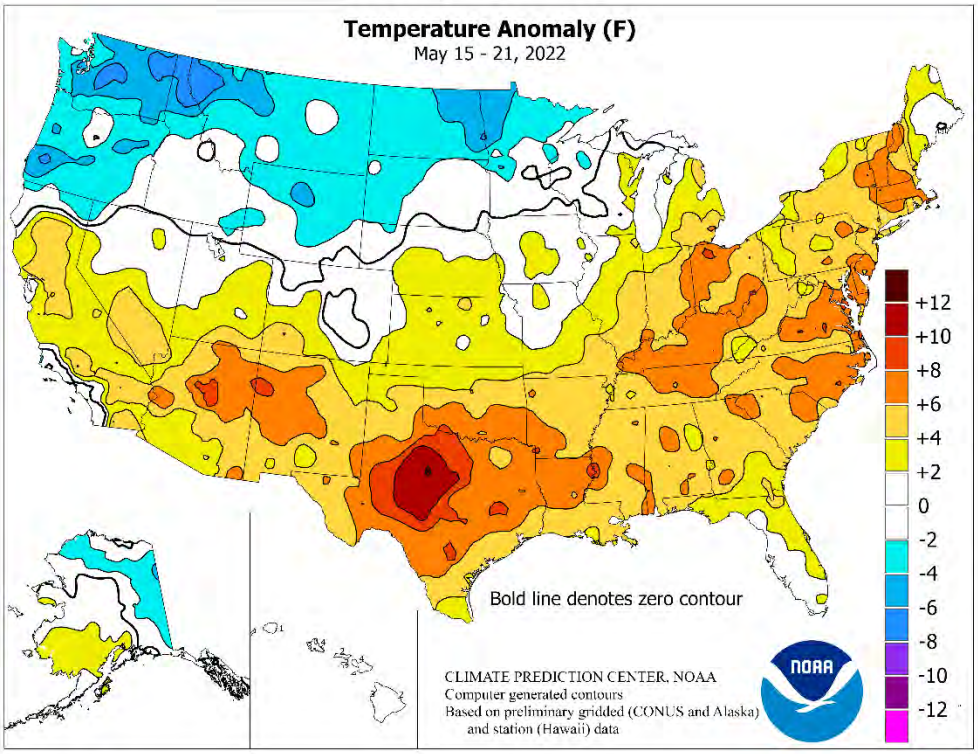

U.S. Seasonal Drought Outlook
Drought Tendency During the Valid Period
Valid for May 19 - August 31, 2022
Released May 19
Author:
Adam Hartman
NOAA/NWS/NCEP/Climate Prediction Center
Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and 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


Extreme Maximum Temperature (F)
May 15 - 21, 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)
May 15 - 21, 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)

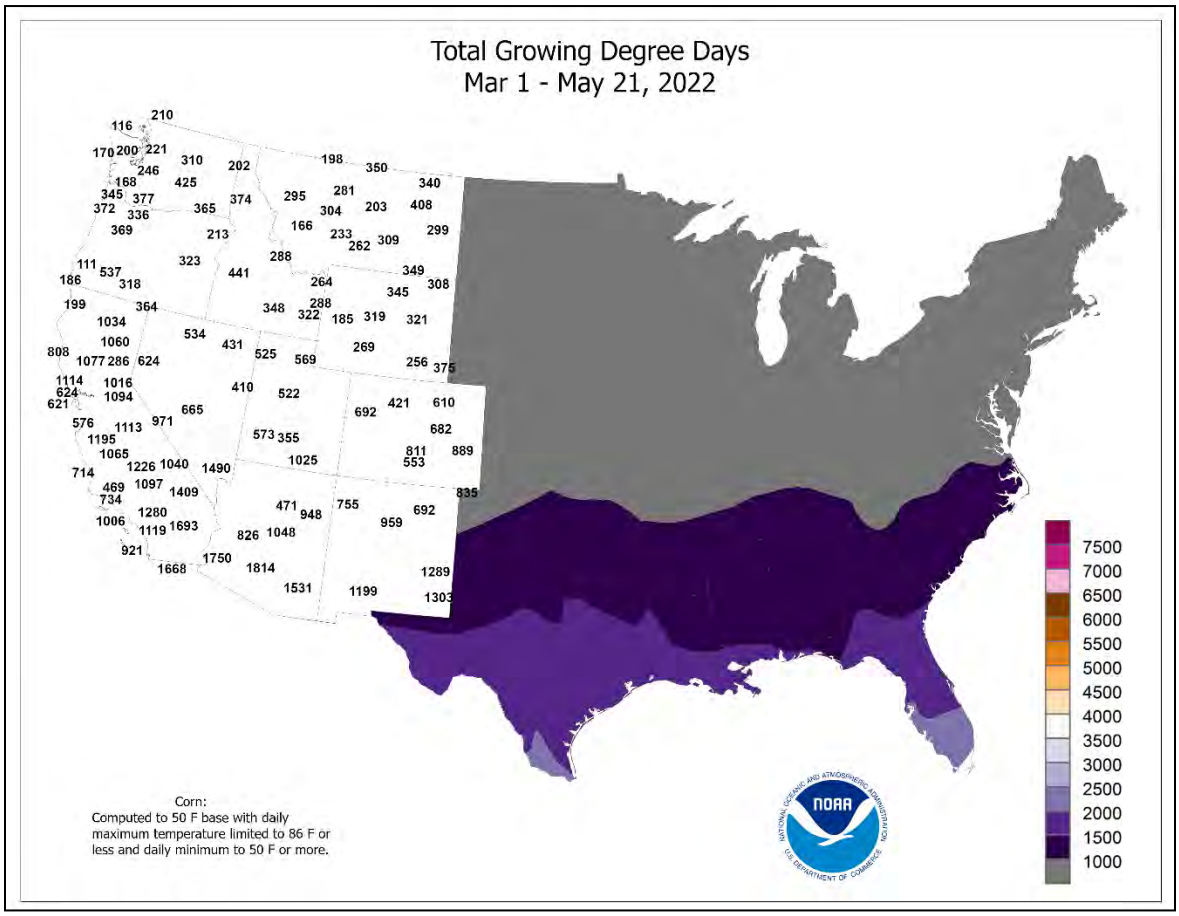
planting delays. By May 22, spring wheat planting—49 percent complete—was progressing at the slowest pace of the 21st century, breaking the 2011 record of 54 percent. On the same date, corn and soybean planting operations were advancing at the slowest pace since 2019, with that year being the only slower year for corn seeding so far in the 21st century. In contrast, dry weather prevailed from **California to the southern High Plains**, further stressing rangeland, pastures, winter grains, and rain-fed summer crops. In **Texas** and environs, extreme heat compounded the effects of worsening drought, while numerous early-season wildfires continued to burn in **New Mexico** and portions of neighboring states. Weekly temperatures averaged more than 10°F above normal in parts of **Texas**, while a broader area across the **southern and eastern U.S.** experienced temperatures averaging at least 5°F above normal. Elsewhere, readings locally averaged more than 5°F below normal from the **Pacific Northwest into the upper Great Lakes region**.

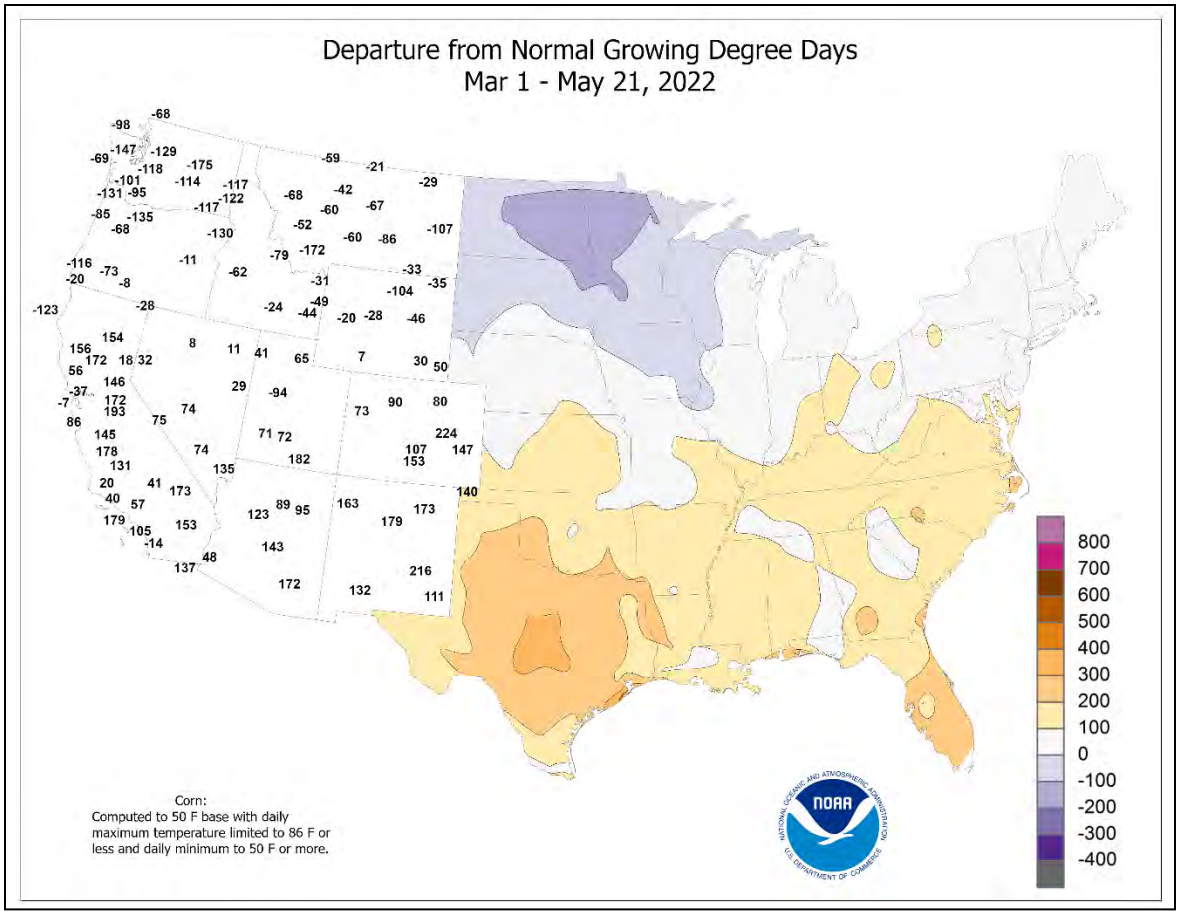


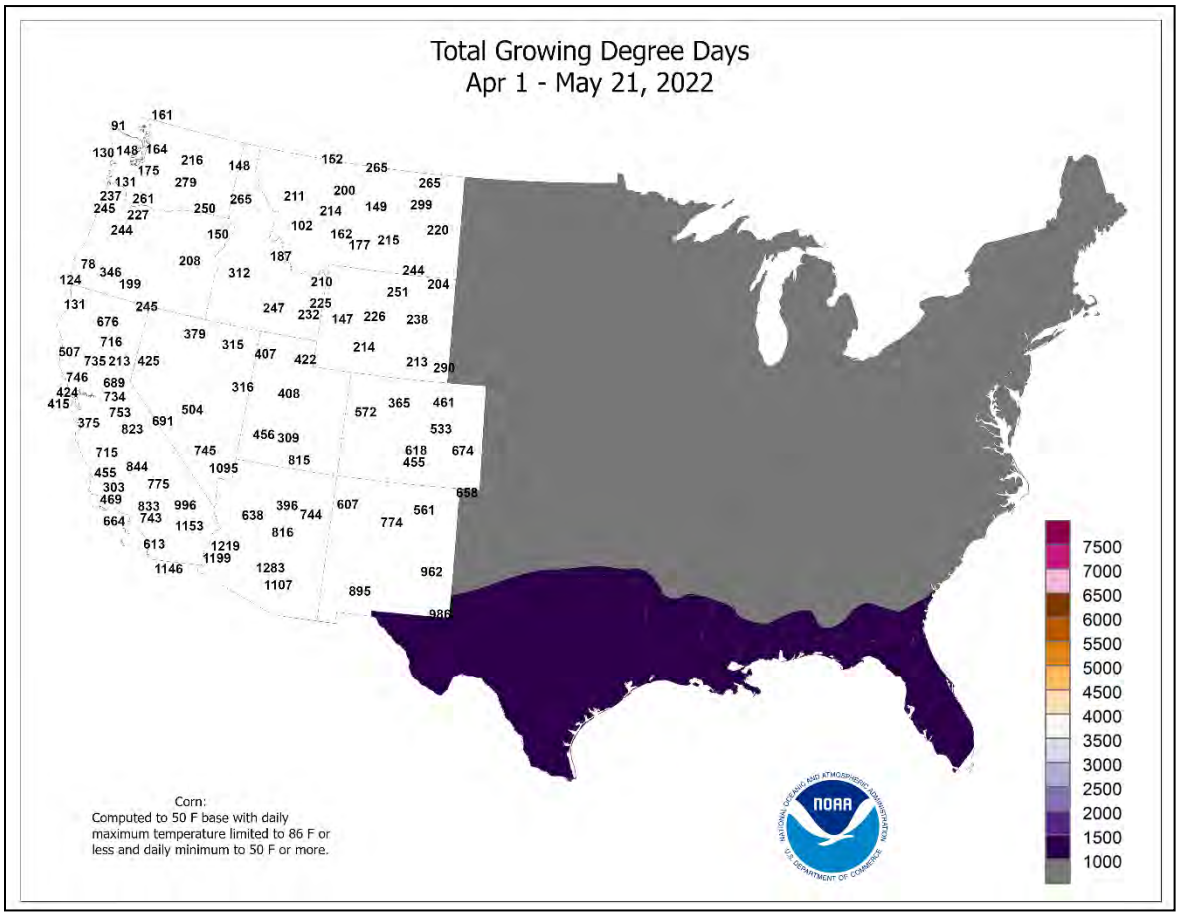
In advance of an approaching storm system, early-week **Southwestern** temperatures soared. On May 15, triple-digit, daily-record highs included 107°F in **Imperial, CA**, and 105°F in **Tucson, AZ**. Meanwhile, persistently hot weather gripped the **south-central U.S.**, where highs of 99°F or greater were reported in **Abilene, TX**, each day from May 6-20. During that 15-day period, **Abilene** noted 12 days with triple-digit heat (highs ranging from 100 to 107°F). Prior to this year, **Abilene** had never experienced more than 7 days in May with 100-degree heat. Elsewhere in **Texas**, **Midland** tallied highs ranging from 100 to 103°F each day from May 14-19, while **San Angelo** registered highs ranging from 100 to 107°F on 8 consecutive days from May 13-20. S**an Angelo** tied a 1927 record with 12 triple-digit high temperatures during May. Heat on the **southern High Plains** generally peaked on May 17 or 19, with highs on the former date reaching 105°F in **Guymon, OK**, and 101°F in **Amarillo, TX**. By May 19, highs soared to 107°F in **Childress, TX**, and 104°F in **Hobart, OK**. That marked the highest May temperature in **Childress** since May 8, 2011, when it was also 107°F. Farther north, a daily-record high (96°F on May 19) in **Grand Island, NE**, occurred less than 48 hours before a hard freeze struck **western Nebraska**. May 21-22 featured consecutive daily-record lows (28 and 24°F, respectively) in **Sidney, NE**. Elsewhere in **Nebraska**, record-setting lows for May 22 plunged to 19°F in **Alliance**, 23°F in **Chadron**, and 27°F in **North Platte**. Freezes (and daily-record lows) were also observed during the cool spell in locations such as **Pocatello, ID** (26°F on May 21); **Grand Junction, CO** (29°F on May 21); and **Sioux City, IA** (30°F on May 22). **Western** daily-record lows also included 21°F (on May 20) in **Burns, OR**; 18°F (on May 21) in **Rawlins, WY**; and 17°F (on May 22) in **Ely, NV**. In **Montana**, consecutive daily-record lows were set on May 21-22 in **Chinook** (29 and 25°F) and **Havre** (27 and 22°F). In contrast, late-week heat surged into the **East**, where record-setting highs for May 20 rose to 99°F in **Fayetteville, NC**, and 97°F in **Richmond, VA**. **Richmond** collected another daily-record high (95°F) on May 21. **Northeastern** daily-record highs for the 21st included 95°F in **Philadelphia, PA**, and 90°F in **Montpelier, VT**. In **Texas**, **Galveston** closed the week with four consecutive daily-record highs (90, 90, 91, and 92°F) from May 18-21—and experienced its highest minimum temperature on record in May, with a low of 82°F on the 21st.

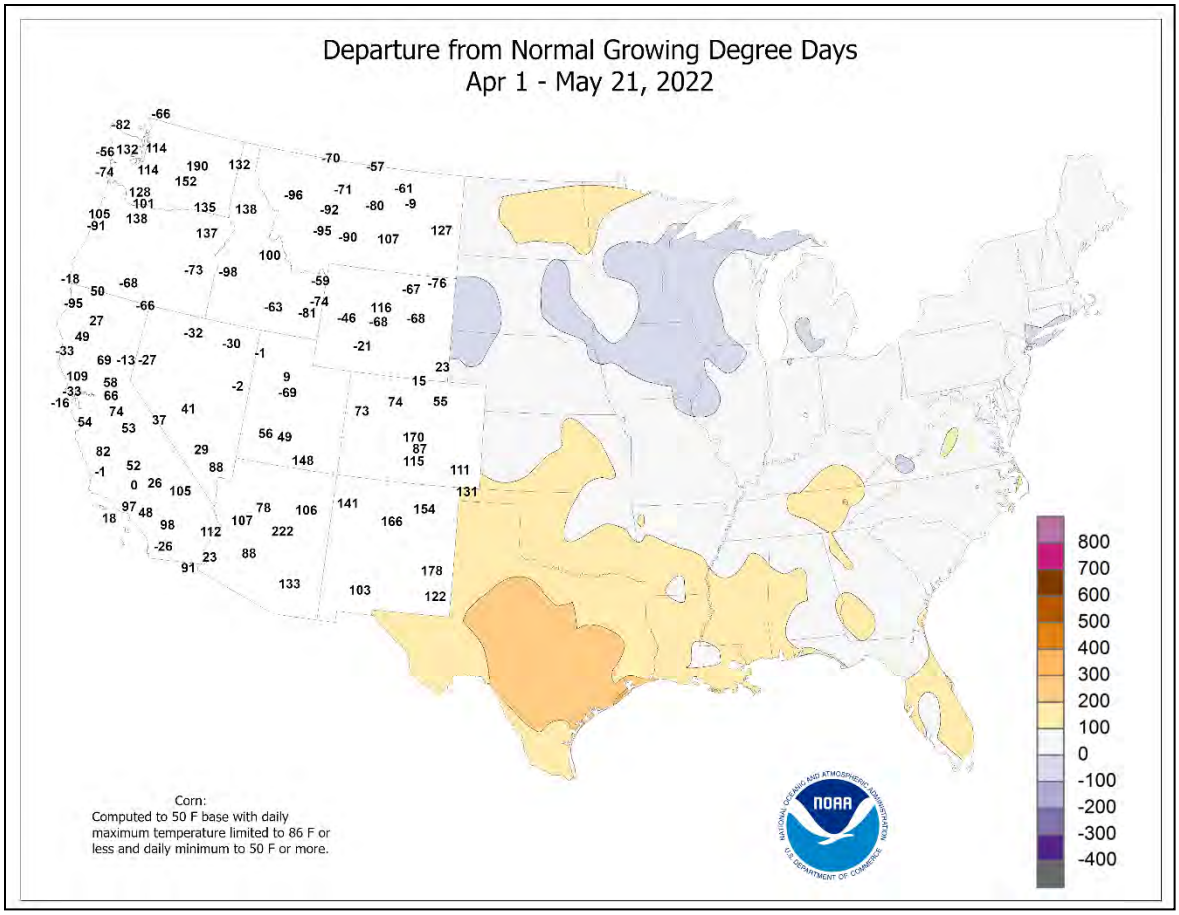
Early-week showers dotted the **East**, where record-setting totals for May 15 included 2.58 inches in **Jacksonville, FL**, and 1.50 inches in **Massena, NY**. **Jacksonville** also reported a thunderstorm-related wind gust to 53 mph on that date. Meanwhile, gusty winds continued to fan **Southwestern** wildfires. In **New Mexico**, May 16 gusts were clocked to 60 mph in Raton and 59 mph in Clayton. **New Mexico's** largest modern wildfire, the Calf Canyon / Hermits Peak Fire, northwest of **Las Vegas**, grew to more than 310,000 acres, with more than 700 structures destroyed. Another wildfire, the 155,000-acre Black Fire, grew rapidly northwest of **Truth or Consequences, NM**. During the mid- to late-week period, spotty severe weather erupted across the **Plains** and **Midwest**. On May 20, an EF-3 tornado ripped through **Gaylord, MI**, resulting in two fatalities, a day after a rash of weaker tornadoes struck parts of **Illinois**, **Indiana**, and **Missouri**. Meanwhile, late-season snow developed in parts of the **West**, where **Ennis, MT**, received 1.0 inch on May 19. In **Colorado**, May 20-21 snowfall totaled 10.3 inches in **Colorado Springs**, 3.2 inches in **Pueblo**, and 2.3 inches in **Denver**. **Pueblo**, which received 2.8 inches on May 21, tied for its latest measurable snowfall on record (0.2 inch on May 21, 2001). Elsewhere, late-week rainfall was heaviest from the **lower Midwest into the Southeast**; daily-record totals included 5.65 inches (on May 20) in **Leesburg, FL**, and 2.44 inches (on May 21) in **Paducah, KY**. For **Leesburg**, it was also the wettest May day on record (previously, 4.34 inches on May 9, 1973).

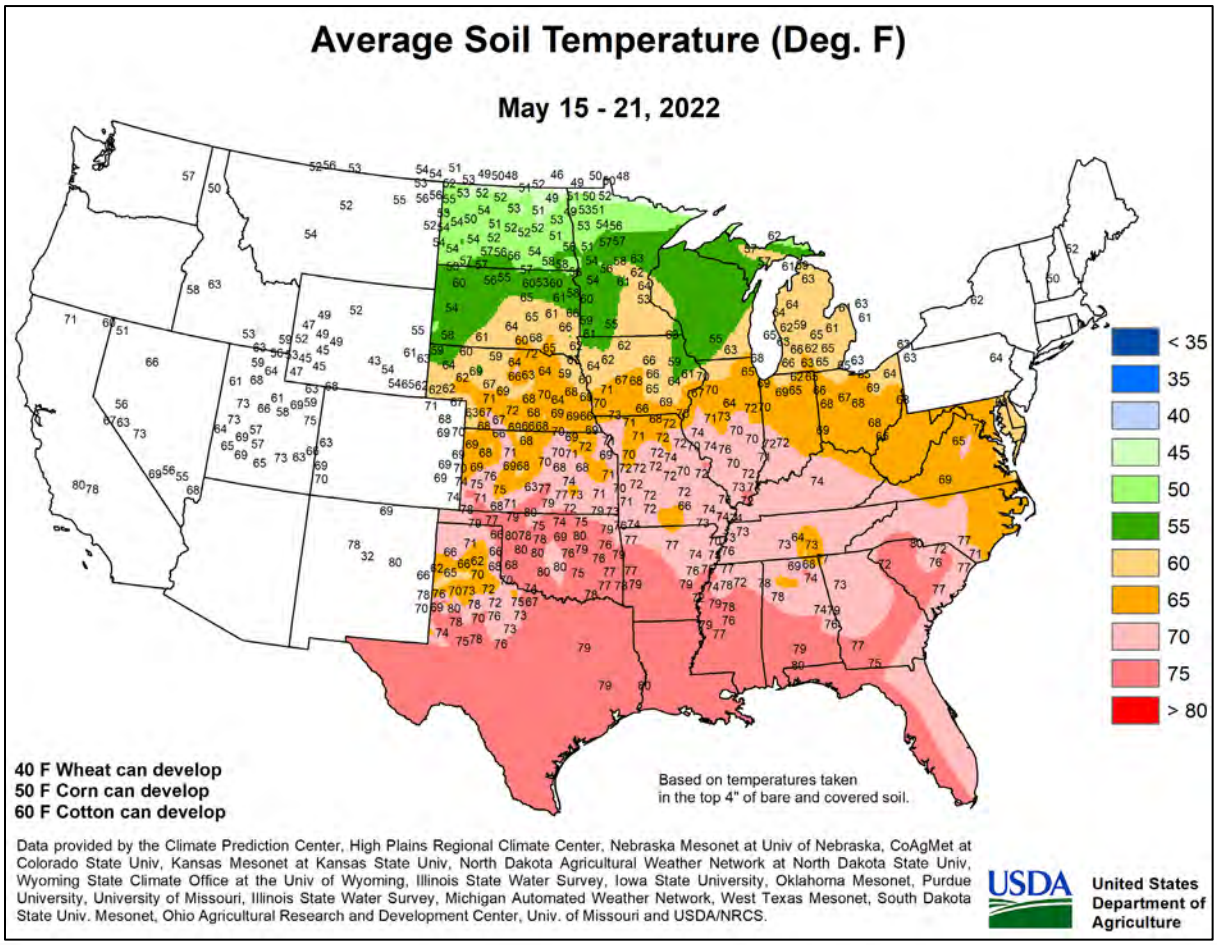
Cool, showery conditions in **northern and eastern Alaska** contrasted with mild, mostly dry weather farther south and west. On May 21, **Nome** posted a daily-record high of 67°F. **Fairbanks** reported a steady warming trend, recovering from a freeze (30°F on May 14) to note its first 60-degree reading of the year on May 17 and highs of 73 and 74°F, respectively, on May 20-21. Farther south, warm, dry weather prevailed in **Hawaii** for much of the week, although locally heavy, late-week showers occurred on **Kauai** and **Maui**. From May 16-20, rainfall totaled 2.04 inches in **Lihue, Kauai**. In **Honolulu, Oahu**, month-to-date rainfall through the 21st reached 1.36 inches (234 percent of normal), aided by a daily-record sum of 0.98 inch on May 20. **Honolulu** also notched a daily record-tying high of 89°F on May 21. Meanwhile in **Hilo** (on the **Big Island**), May 18 was the last of 52 consecutive days with measurable rainfall.

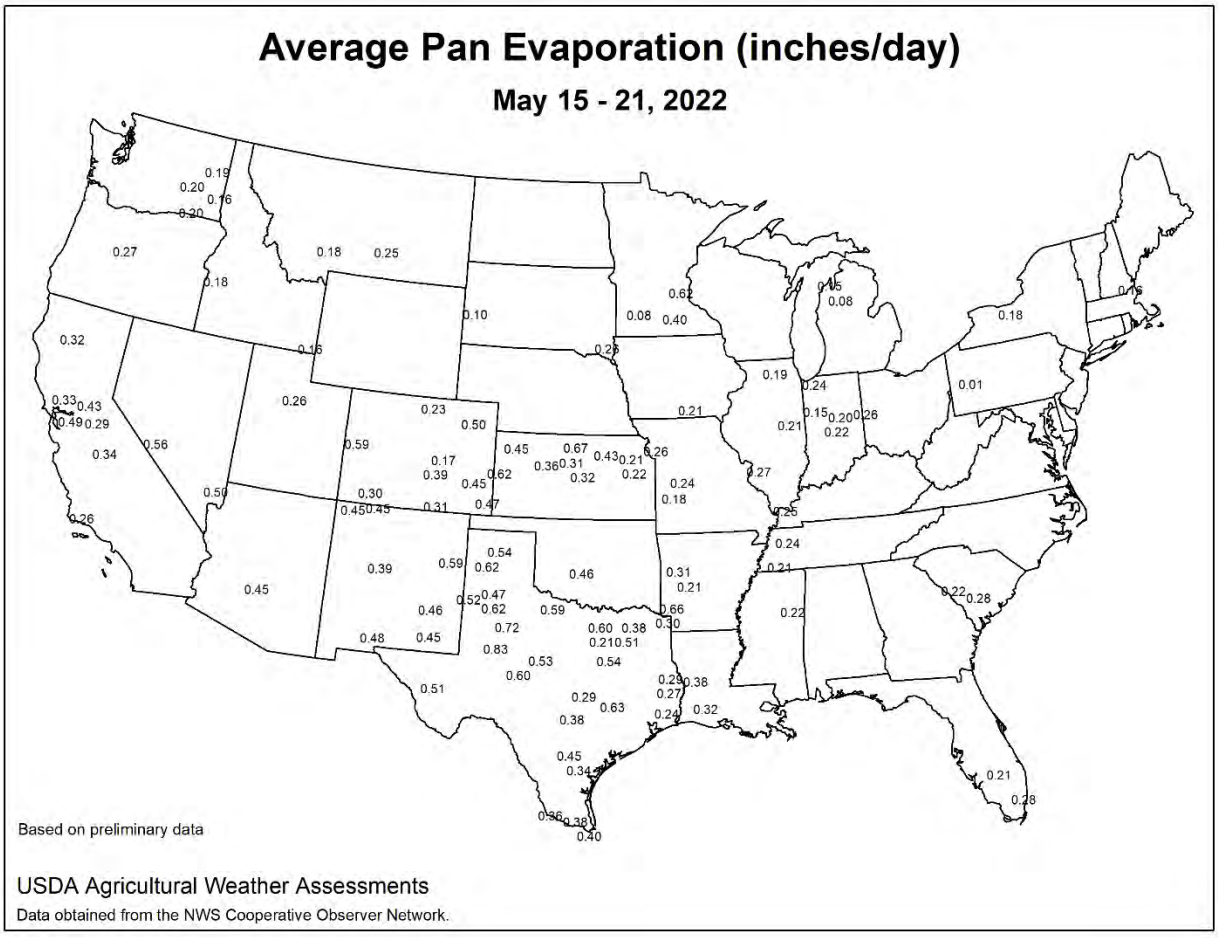

Total Growing Degree Days
Mar 1 - May 21, 2022
7500
7000
6500
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
1000
Corn:
Computed to 50 F base with daily maximum temperature limited to 86 F or less and daily minimum to 50 F or more.
NOAA


Departure from Normal Growing Degree Days
Mar 1 - May 21, 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


Total Growing Degree Days
Apr 1 - May 21, 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 - May 21, 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


Average Soil Temperature (Deg. F)
May 15 - 21, 2022
< 35
35
40
45
50
55
60
65
70
75
> 80
40 F Wheat can develop
50 F Corn can develop
60 F Cotton can develop
Based on temperatures taken
in the top 4" of bare and covered soil.
Data provided by the Climate Prediction Center, High Plains Regional Climate Center, Nebraska Mesonet at Univ of Nebraska, CoAgMet at Colorado State Univ, Kansas Mesonet at Kansas State Univ, North Dakota Agricultural Weather Network at North Dakota State Univ, Wyoming State Climate Office at the Univ of Wyoming, Illinois State Water Survey, Iowa State University, Oklahoma Mesonet, Purdue University, University of Missouri, Illinois State Water Survey, Michigan Automated Weather Network, West Texas Mesonet, South Dakota State Univ. Mesonet, Ohio Agricultural Research and Development Center, Univ. of Missouri and USDA/NRCS.
USDA
United States Department of Agriculture


Average Pan Evaporation (inches/day)
May 15 - 21, 2022
Based on preliminary data
USDA Agricultural Weather Assessments
Data obtained from the NWS Cooperative Observer Network.

National Weather Data for Selected Cities

Weather Data for the Week Ending May 21, 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 MAR 1	PCT. NORMAL SINCE MAR 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	63	42	68	37	52	4	0.00	-0.17	0.00	1.31	84	5.04	167	71	29	0	0	0	0
	BARROW	27	18	35	12	22	0	0.04	-0.01	0.01	0.34	80	6.07	816	89	79	0	7	3	0
	FAIRBANKS	63	38	74	33	51	0	0.14	0.00	0.14	1.07	105	2.15	105	78	32	0	0	1	0
	JUNEAU	62	38	71	36	50	1	0.13	-0.67	0.10	10.84	121	33.54	181	86	32	0	0	2	0
	KODIAK	56	40	65	34	48	3	0.49	-0.80	0.26	17.77	118	33.48	113	80	47	0	0	2	0
	NOME	50	34	67	25	42	4	0.35	0.15	0.34	1.65	81	2.70	68	82	49	0	4	2	0
AL	BIRMINGHAM	91	67	94	57	79	8	0.00	-1.17	0.00	14.95	114	22.51	100	83	36	5	0	0	0
	HUNTSVILLE	90	63	92	54	77	6	0.01	-1.15	0.01	13.57	103	27.87	121	94	35	4	0	1	0
	MOBILE	91	71	93	66	81	7	1.46	0.29	1.02	15.06	105	19.30	76	91	46	7	0	3	1
	MONTGOMERY	91	67	93	60	79	6	0.12	-0.69	0.08	11.56	93	20.94	93	89	42	7	0	2	0
AR	FORT SMITH	87	67	90	61	77	6	0.13	-1.16	0.12	14.82	124	21.13	120	89	52	1	0	2	0
	LITTLE ROCK	88	67	91	61	78	6	1.59	0.54	0.80	14.64	109	24.24	118	86	47	5	0	3	1
AZ	FLAGSTAFF	74	40	80	31	57	5	0.00	-0.15	0.00	1.73	46	3.02	38	45	15	0	1	0	0
	PHOENIX	101	73	105	70	87	4	0.00	-0.04	0.00	0.15	10	0.56	16	24	7	7	0	0	0
	PRESCOTT	83	52	90	47	68	5	0.00	-0.11	0.00	0.51	26	1.45	32	39	12	1	0	0	0
	TUCSON	98	66	105	65	82	6	0.00	-0.06	0.00	0.19	15	0.67	21	24	5	7	0	0	0
CA	BAKERSFIELD	88	64	94	57	76	5	0.00	-0.04	0.00	1.72	89	1.84	42	46	18	3	0	0	0
	EUREKA	58	45	63	39	52	-2	0.03	-0.34	0.03	8.46	85	10.84	49	91	72	0	0	1	0
	FRESNO	89	61	95	56	75	4	0.00	-0.09	0.00	1.00	30	1.04	13	54	18	3	0	0	0
	LOS ANGELES	67	59	72	58	63	0	0.00	-0.05	0.00	1.32	48	1.46	16	85	63	0	0	0	0
	REDDING	88	59	94	54	73	5	0.00	-0.43	0.00	2.84	35	4.01	20	49	11	3	0	0	0
	SACRAMENTO	89	56	99	52	73	6	0.00	-0.14	0.00	2.04	46	2.09	18	68	16	3	0	0	0
	SAN DIEGO	65	58	70	58	62	-2	0.02	0.00	0.02	1.63	60	2.48	35	87	67	0	0	1	0
	SAN FRANCISCO	68	52	77	50	60	0	0.00	-0.10	0.00	1.35	29	1.77	13	81	44	0	0	0	0
	STOCKTON	89	55	97	50	73	6	0.00	-0.12	0.00	1.54	43	1.54	17	66	20	4	0	0	0
CO	ALAMOSA	76	36	83	31	56	4	0.28	0.16	0.28	1.43	93	2.14	99	65	15	0	1	1	0
	CO SPRINGS	72	45	90	30	58	2	1.16	0.71	0.76	2.22	59	2.99	67	62	28	1	2	3	1
	DENVER INTL	72	43	88	31	58	0	0.78	0.31	0.68	2.82	69	4.46	91	70	27	0	2	2	1
	GRAND JUNCTION	82	47	89	29	65	2	0.00	-0.20	0.00	0.99	39	1.61	43	46	10	0	1	0	0
	PUEBLO	79	44	95	33	61	0	0.85	0.52	0.50	3.35	98	4.46	107	70	24	2	0	2	1
CT	BRIDGEPORT	71	55	82	52	63	3	0.44	-0.39	0.26	6.61	62	13.07	79	94	59	0	0	4	0
	HARTFORD	78	56	91	50	67	7	0.64	-0.37	0.36	9.12	90	15.53	96	91	45	1	0	5	0
DC	WASHINGTON	84	63	92	57	73	7	0.75	-0.19	0.44	10.43	114	16.31	111	84	41	1	0	4	0
DE	WILMINGTON	81	58	93	50	70	6	0.07	-0.85	0.06	9.21	91	15.78	100	91	48	1	0	2	0
FL	DAYTONA BEACH	89	69	90	65	79	3	1.43	0.74	0.84	10.20	125	12.13	89	94	55	3	0	3	1
	JACKSONVILLE	90	67	93	64	79	4	3.04	2.54	2.36	17.06	213	19.97	138	100	48	4	0	2	2
	KEY WEST	87	78	89	74	82	2	0.07	-0.64	0.07	3.65	63	6.62	71	90	69	0	0	1	0
	MIAMI	90	76	91	73	83	3	2.16	0.91	1.64	9.43	103	16.93	130	89	59	3	0	3	1
	ORLANDO	90	70	94	67	80	2	1.69	0.94	0.97	13.07	158	14.71	113	95	48	5	0	4	1
	PENSACOLA	88	74	90	68	81	6	0.79	-0.12	0.79	11.41	88	16.19	71	91	58	1	0	1	1
	TALLAHASSEE	90	67	94	64	78	3	0.06	-0.69	0.06	12.60	114	18.18	90	96	45	5	0	1	0
	TAMPA	89	74	91	72	82	3	0.16	-0.30	0.16	9.93	159	11.27	100	84	54	3	0	1	0
	WEST PALM BEACH	89	73	92	70	81	2	1.37	0.31	1.13	10.50	98	14.69	88	90	57	3	0	3	1
GA	ATHENS	91	61	95	56	76	6	0.00	-0.64	0.00	8.51	88	15.59	85	89	34	5	0	0	0
	ATLANTA	88	66	90	60	77	6	0.00	-0.80	0.00	10.91	101	19.46	99	81	36	1	0	0	0
	AUGUSTA	90	60	94	51	75	4	0.19	-0.35	0.19	10.24	119	15.43	94	98	34	5	0	1	0
	COLUMBUS	91	66	92	59	79	5	0.00	-0.67	0.00	11.20	100	20.31	104	90	36	7	0	0	0
	MACON	93	62	95	55	77	5	0.02	-0.56	0.02	9.70	105	14.85	83	94	34	7	0	1	0
	SAVANNAH	91	68	96	63	80	6	0.02	-0.60	0.02	3.40	39	7.27	48	92	40	5	0	1	0
HI	HILO	82	70	86	67	76	2	0.71	-1.06	0.38	31.80	102	39.40	79	92	62	0	0	4	0
	HONOLULU	82	71	89	67	77	-1	1.16	1.02	0.98	1.80	57	8.72	118	86	60	0	0	2	1
	KAHULUI	89	70	91	66	80	4	0.00	-0.16	0.00	0.46	9	0.65	6	77	45	2	0	0	0
	LIHUE	79	70	81	67	75	-1	2.04	1.56	0.98	7.51	89	15.66	102	97	60	0	0	6	1
IA	BURLINGTON	76	54	84	49	65	1	0.86	-0.26	0.33	7.43	75	8.73	68	94	47	0	0	4	0
	CEDAR RAPIDS	74	49	86	40	61	1	0.23	-0.72	0.12	6.84	86	7.17	71	90	38	0	0	2	0
	DES MOINES	75	55	87	44	65	2	0.26	-0.81	0.24	7.46	79	11.04	94	83	38	0	0	3	0
	DUBUQUE	72	50	86	45	61	2	0.13	-0.81	0.12	7.65	86	8.27	72	85	43	0	0	2	0
	SIOUX CITY	75	48	90	36	61	0	0.10	-0.74	0.10	4.65	62	4.80	55	83	32	1	0	1	0
	WATERLOO	75	50	89	44	63	2	0.16	-0.88	0.15	9.86	112	10.67	100	81	33	0	0	2	0
ID	BOISE	73	46	85	38	59	-1	0.00	-0.32	0.00	2.90	81	4.11	70	70	20	0	0	0	0
	LEWISTON	67	47	77	44	57	-3	0.21	-0.16	0.20	4.02	113	5.60	102	75	35	0	0	2	0
	POCATELLO	70	38	79	26	54	0	0.01	-0.31	0.01	2.99	88	4.05	75	73	18	0	1	1	0
IL	CHICAGO/O_HARE	74	54	86	51	64	4	1.19	0.34	0.46	11.93	143	15.31	129	85	44	0	0	4	0
	MOLINE	76	53	88	48	65	2	0.18	-0.83	0.11	7.88	84	10.71	86	90	41	0	0	4	0
	PEORIA	79	54	87	51	67	4	0.82	-0.20	0.39	8.13	86	11.25	86	90	43	0	0	4	0
	ROCKFORD	73	51	86	47	62	1	0.40	-0.54	0.31	9.15	111	10.72	97	88	43	0	0	4	0
	SPRINGFIELD	81	56	89	52	69	4	1.04	0.09	0.85	9.59	107	10.07	80	92	44	0	0	4	1
IN	EVANSVILLE	85	62	90	54	74	7	0.78	-0.43	0.61	10.65	86	21.41	115	89	44	1	0	3	1
	FORT WAYNE	78	57	87	51	68	7	0.42	-0.59	0.17	8.01	90	11.43	87	92	45	0	0	4	0
	INDIANAPOLIS	80	58	87	53	69	6	1.22	0.04	0.47	11.41	105	16.94	107	92	42	0	0	5	0
	SOUTH BEND	74	53	86	49	64	4	0.91	0.04	0.50	9.43	116	13.22	107	89	47	0	0	3	1
KS	CONCORDIA	81	56	93	45	68	5	0.05	-0.94	0.05	5.31	73	5.63	65	76	31	2	0	1	0
	DODGE CITY	83	52	95	40	68	3	0.10	-0.57	0.06	1.61	31	2.23	34	83	28	3	0	2	0
	GOODLAND	78	46	93	34	62	2	0.91	0.22	0.59	2.94	65	3.96	73	87	22	1	0	3	1
	TOPEKA	80	57	87	45	69	3	1.48	0.33	1.33	10.35	110	11.48	99	90	45	0	0	2	1

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

Weather Data for the Week Ending May 21, 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 MAR 1	PCT. NORMAL SINCE MAR 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	80	59	89	44	69	3	0.35	-0.70	0.35	8.85	107	9.81	95	84	42	0	0	1	0
KY	LEXINGTON	84	61	88	54	72	8	1.02	-0.17	0.40	10.29	91	23.10	131	88	43	0	0	4	0
	LOUISVILLE	85	65	91	61	75	8	0.90	-0.28	0.44	8.21	69	17.80	97	86	41	2	0	5	0
	PADUCAH	86	63	90	55	75	7	3.03	1.98	2.43	14.20	116	26.69	135	87	40	1	0	3	2
LA	BATON ROUGE	91	71	95	67	81	4	0.22	-0.40	0.16	8.50	87	12.80	62	97	49	6	0	2	0
	LAKE CHARLES	90	71	92	66	81	4	0.03	-1.17	0.03	4.56	44	7.28	38	92	51	4	0	1	0
	NEW ORLEANS	91	74	93	72	82	5	0.22	-0.75	0.16	11.65	95	16.89	74	91	49	4	0	2	0
	SHREVEPORT	92	72	94	70	82	8	0.14	-0.93	0.14	13.79	117	18.13	87	87	49	7	0	1	0
MA	BOSTON	72	56	79	52	64	5	0.12	-0.63	0.08	5.48	53	12.17	72	89	49	0	0	4	0
	WORCESTER	74	54	88	48	64	7	1.38	0.44	0.77	9.15	83	17.62	99	91	44	0	0	4	1
MD	BALTIMORE	85	59	95	52	72	8	0.20	-0.72	0.10	10.85	112	17.12	110	88	41	2	0	3	0
ME	CARIBOU	64	44	71	33	54	2	1.42	0.63	0.94	8.94	122	14.37	117	89	50	0	0	4	1
	PORTLAND	64	49	72	44	56	2	0.44	-0.45	0.25	8.93	79	15.11	84	95	61	0	0	3	0
MI	ALPENA	72	44	88	34	58	5	0.12	-0.50	0.10	10.91	182	12.55	140	91	40	0	0	3	0
	GRAND RAPIDS	71	52	86	45	61	2	1.10	0.18	0.51	10.62	126	15.14	123	91	48	0	0	5	1
	HOUGHTON LAKE	69	46	82	35	57	3	0.10	-0.55	0.06	9.50	155	10.87	122	90	42	0	0	2	0
	LANSING	74	54	88	44	64	6	0.60	-0.16	0.22	8.89	122	14.94	143	88	46	0	0	5	0
	MUSKEGON	69	49	83	40	59	1	0.89	0.12	0.52	9.95	135	13.06	116	93	49	0	0	3	1
	TRAVERSE CITY	70	46	83	35	58	3	0.15	-0.44	0.15	7.53	118	8.37	78	89	39	0	0	1	0
MN	DULUTH	61	41	70	36	51	-1	0.60	-0.13	0.25	8.17	135	10.12	129	85	48	0	0	3	0
	INT_L FALLS	58	39	72	31	49	-4	0.39	-0.27	0.20	11.24	260	13.61	246	92	50	0	1	4	0
	MINNEAPOLIS	70	51	75	42	60	1	0.13	-0.62	0.08	9.11	133	10.30	120	77	36	0	0	3	0
	ROCHESTER	70	48	80	43	59	0	1.62	0.83	0.95	11.34	151	12.54	135	84	41	0	0	4	2
	ST. CLOUD	67	47	74	38	58	0	0.17	-0.47	0.12	6.64	109	8.02	109	86	36	0	0	3	0
MO	COLUMBIA	79	56	87	50	67	3	1.01	-0.07	0.55	12.19	112	15.24	101	93	51	0	0	4	1
	KANSAS CITY	78	55	84	45	67	2	0.58	-0.62	0.31	10.50	109	11.87	97	89	45	0	0	4	0
	SAINT LOUIS	82	61	89	56	72	5	2.48	1.41	1.57	13.19	131	18.06	122	83	45	0	0	4	1
	SPRINGFIELD	79	58	86	50	68	3	2.95	1.83	1.63	16.46	142	21.27	128	94	60	0	0	5	2
MS	JACKSON	90	67	93	64	79	6	0.12	-0.88	0.12	18.96	145	23.63	103	93	45	5	0	1	0
	MERIDIAN	93	67	95	63	80	9	0.00	-1.03	0.00	13.85	108	22.94	97	89	35	7	0	0	0
	TUPELO	90	66	92	56	78	6	0.04	-1.24	0.04	11.38	84	23.90	103	88	42	5	0	1	0
MT	BILLINGS	64	42	75	32	53	-3	0.34	-0.17	0.29	4.11	98	5.35	103	80	31	0	1	3	0
	BUTTE	59	33	71	28	46	-2	0.03	-0.46	0.02	0.78	24	1.43	34	88	25	0	5	2	0
	CUT BANK	58	35	69	30	47	-4	0.33	-0.14	0.25	0.90	37	1.02	34	80	28	0	2	3	0
	GLASGOW	66	40	77	31	53	-3	0.10	-0.33	0.07	2.61	105	2.87	90	94	31	0	1	2	0
	GREAT FALLS	62	35	75	24	49	-4	0.42	-0.17	0.27	3.74	99	5.17	108	81	29	0	2	3	0
	HAVRE	65	38	81	27	52	-3	0.13	-0.27	0.07	1.04	42	1.37	43	77	24	0	1	3	0
	MISSOULA	64	38	77	34	51	-3	0.16	-0.32	0.12	1.95	56	3.99	79	84	31	0	0	3	0
NC	ASHEVILLE	82	56	89	49	69	5	0.03	-0.80	0.03	9.50	99	18.53	109	93	38	0	0	1	0
	CHARLOTTE	89	62	94	53	75	8	0.28	-0.41	0.28	10.59	116	16.74	106	89	38	3	0	1	0
	GREENSBORO	86	62	91	54	74	6	0.18	-0.55	0.16	8.17	86	16.06	104	86	39	2	0	2	0
	HATTERAS	80	69	82	63	75	7	1.77	0.98	1.77	8.87	81	17.97	89	91	63	0	0	1	1
	RALEIGH	89	62	96	53	75	7	0.31	-0.41	0.29	8.76	96	16.02	101	93	45	3	0	3	0
	WILMINGTON	89	69	95	62	79	8	0.33	-0.75	0.31	5.86	59	11.06	64	90	44	3	0	2	0
ND	BISMARCK	64	42	76	37	53	-3	0.60	0.04	0.53	15.52	421	16.45	352	89	44	0	0	3	1
	DICKINSON	62	38	77	31	50	-4	0.51	-0.02	0.32	4.44	120	4.51	102	85	40	0	1	3	0
	FARGO	63	40	73	28	51	-7	0.05	-0.61	0.05	7.75	174	9.06	156	90	43	0	1	1	0
	GRAND FORKS	62	41	71	32	51	-4	0.44	-0.19	0.34	9.13	242	10.58	218	88	48	0	1	3	0
	JAMESTOWN	61	43	71	36	52	-4	0.54	-0.11	0.29	7.18	188	7.59	161	90	52	0	0	2	0
NE	GRAND ISLAND	80	52	96	38	66	4	0.23	-0.82	0.21	4.14	57	4.24	50	79	30	1	0	2	0
	LINCOLN	79	53	93	38	66	3	0.31	-0.68	0.30	8.15	107	8.36	92	82	34	1	0	2	0
	NORFOLK	76	49	92	36	63	2	1.05	0.13	0.90	4.76	68	4.92	59	83	34	1	0	2	1
	NORTH PLATTE	78	46	91	32	62	3	0.01	-0.75	0.01	4.24	78	4.67	73	80	28	1	1	1	0
	OMAHA	79	55	93	42	67	4	1.26	0.13	0.66	6.64	81	7.18	73	84	33	1	0	2	2
	SCOTTSBLUFF	75	40	90	27	58	-1	0.10	-0.45	0.06	2.43	55	3.61	66	85	24	1	2	2	0
	VALENTINE	75	45	86	33	60	1	0.28	-0.41	0.24	3.54	66	3.71	60	82	29	0	0	3	0
NH	CONCORD	73	52	86	45	62	6	1.39	0.58	0.71	9.13	101	15.33	107	93	48	0	0	3	1
NJ	ATLANTIC_CITY	80	56	93	50	68	7	0.72	-0.04	0.51	11.94	119	21.91	136	93	47	1	0	3	1
	NEWARK	79	59	95	56	69	6	1.53	0.60	0.89	11.10	100	17.44	100	89	47	1	0	5	1
NM	ALBUQUERQUE	89	59	92	51	74	8	0.00	-0.11	0.00	0.55	35	0.89	36	28	6	4	0	0	0
NV	ELY	71	34	80	18	53	1	0.00	-0.26	0.00	1.21	44	1.56	37	59	14	0	2	0	0
	LAS VEGAS	95	70	101	62	82	4	0.00	-0.04	0.00	0.10	13	0.16	7	18	6	5	0	0	0
	RENO	79	47	87	40	63	3	0.00	-0.11	0.00	0.28	17	0.71	19	49	11	0	0	0	0
	WINNEMUCCA	77	39	88	31	58	2	0.00	-0.26	0.00	1.68	65	1.89	45	58	11	0	1	0	0
NY	ALBANY	76	53	91	46	65	6	1.07	0.26	0.49	9.87	113	22.56	167	91	50	1	0	4	0
	BINGHAMTON	71	51	85	42	61	5	1.33	0.51	0.75	10.31	118	15.46	115	99	53	0	0	4	1
	BUFFALO	68	53	82	42	61	3	0.92	0.12	0.63	6.43	79	13.24	96	92	58	0	0	4	1
	ROCHESTER	73	52	87	42	62	5	1.21	0.55	0.90	5.81	81	11.97	104	95	51	0	0	4	1
	SYRACUSE	74	52	91	44	63	5	0.43	-0.30	0.15	7.22	88	11.93	93	92	51	1	0	6	0
OH	AKRON-CANTON	77	56	88	48	67	7	1.40	0.39	0.50	12.09	129	19.68	138	88	47	0	0	4	1
	CINCINNATI	81	60	86	52	70	6	4.04	2.93	1.82	13.49	120	22.04	130	98	49	0	0	6	3
	CLEVELAND	77	57	87	47	67	6	1.42	0.58	0.85	9.96	113	15.25	110	91	43	0	0	4	1
	COLUMBUS	80	58	87	52	69	6	2.31	1.34	0.93	11.49	126	20.02	142	99	51	0	0	4	2
	DAYTON	80	59	88	54	70	8	2.37	1.33	1.54	11.33	107	18.50	119	91	44	0	0	5	1
	MANSFIELD	76	57	85	51	67	8	2.50	1.46	1.86	11.80	112	18.56	118	93	46	0	0	4	1

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

Weather Data for the Week Ending May 21, 2022

STATES AND STATIONS		TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY PERCENT		NUMBER OF DAYS			
																	TEMP. °F		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 MAR 1	PCT. NORMAL SINCE MAR 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	80	59	89	54	70	9	1.13	0.32	0.39	7.67	96	20.17	166	80	38	0	0	4	0
	YOUNGSTOWN	74	53	87	41	64	5	1.29	0.43	0.52	16.58	189	23.76	177	95	48	0	0	4	1
OK	OKLAHOMA CITY	86	65	93	53	75	5	0.00	-1.07	0.00	5.94	64	7.38	60	84	42	4	0	0	0
	TULSA	85	64	92	53	74	5	0.69	-0.73	0.47	10.67	96	13.77	94	89	54	2	0	3	0
OR	ASTORIA	58	46	61	40	52	-2	0.78	0.09	0.38	18.15	121	35.83	110	92	64	0	0	4	0
	BURNS	66	33	80	22	50	-2	0.02	-0.26	0.01	2.02	70	3.02	59	81	22	0	2	2	0
	EUGENE	65	42	72	33	54	-2	0.09	-0.51	0.06	10.69	104	15.70	69	95	47	0	0	2	0
	MEDFORD	73	45	77	35	59	-1	0.00	-0.29	0.00	4.33	107	5.02	59	83	25	0	0	0	0
	PENDLETON	68	45	80	38	57	-2	0.03	-0.26	0.03	4.62	137	7.04	118	77	31	0	0	1	0
	PORTLAND	65	49	73	45	58	-1	0.39	-0.14	0.18	11.02	137	18.66	112	81	41	0	0	3	0
	SALEM	66	46	73	40	56	-1	0.21	-0.27	0.16	13.60	164	20.64	109	86	41	0	0	3	0
PA	ALLENTOWN	78	54	89	47	66	6	1.12	0.15	0.62	14.04	146	20.24	132	95	49	0	0	4	1
	ERIE	71	54	83	42	62	5	1.69	0.91	0.69	8.78	102	16.65	120	92	56	0	0	5	1
	MIDDLETOWN	80	58	91	51	69	6	1.20	0.37	0.49	11.14	124	16.93	119	89	44	1	0	5	0
	PHILADELPHIA	83	60	95	57	71	7	0.58	-0.28	0.35	7.74	79	13.44	87	91	42	1	0	4	0
	PITTSBURGH	75	55	87	42	65	5	0.73	-0.18	0.46	8.92	104	16.30	119	91	43	0	0	4	0
	WILKES-BARRE	79	55	90	48	67	8	0.90	0.10	0.67	12.00	147	17.14	136	91	43	1	0	3	1
	WILLIAMSPORT	78	52	93	43	65	5	0.57	-0.26	0.34	9.24	107	15.39	113	96	41	1	0	5	0
RI	PROVIDENCE	73	55	84	50	64	5	0.47	-0.29	0.26	8.23	70	16.89	89	90	53	0	0	4	0
SC	CHARLESTON	90	68	95	61	79	6	0.02	-0.61	0.02	5.27	62	8.27	54	96	43	3	0	1	0
	COLUMBIA	90	65	96	55	78	5	1.22	0.58	1.22	9.83	119	15.67	101	90	38	4	0	1	1
	FLORENCE	92	68	98	58	80	8	0.10	-0.63	0.10	8.58	108	14.74	105	85	36	4	0	1	0
	GREENVILLE	87	61	93	54	74	5	1.69	0.84	1.69	12.50	120	20.59	113	85	34	2	0	1	1
SD	ABERDEEN	69	43	80	35	56	-1	0.09	-0.63	0.04	7.18	139	8.00	128	94	43	0	0	3	0
	HURON	71	45	80	35	58	-1	0.18	-0.54	0.08	5.91	101	6.29	91	89	39	0	0	3	0
	RAPID CITY	63	39	79	28	51	-4	0.20	-0.54	0.16	3.13	64	3.61	63	89	41	0	2	4	0
	SIOUX FALLS	73	46	89	36	59	1	0.04	-0.74	0.03	4.65	66	5.11	62	84	33	0	0	2	0
TN	BRISTOL	84	56	91	47	70	6	0.18	-0.69	0.14	6.67	71	17.52	109	95	39	1	0	2	0
	CHATTANOOGA	88	63	93	56	76	7	0.04	-0.86	0.04	9.92	83	23.83	110	86	35	3	0	1	0
	KNOXVILLE	86	63	90	54	74	6	0.00	-1.04	0.00	8.99	77	22.89	113	81	38	2	0	0	0
	MEMPHIS	89	68	94	59	78	6	1.22	0.09	1.21	14.26	99	25.30	111	81	42	4	0	2	1
	NASHVILLE	90	64	94	55	77	9	0.73	-0.48	0.73	10.37	86	25.30	128	76	32	4	0	1	1
TX	ABILENE	101	71	107	62	86	13	0.00	-0.71	0.00	0.94	17	3.13	40	69	16	6	0	0	0
	AMARILLO	87	54	101	43	71	4	0.00	-0.52	0.00	1.75	42	2.23	41	77	16	4	0	0	0
	AUSTIN	98	72	100	67	85	8	0.31	-0.71	0.31	2.37	31	7.26	61	84	30	7	0	1	0
	BEAUMONT	91	72	91	65	81	5	0.00	-1.15	0.00	5.26	51	7.71	40	94	56	7	0	0	0
	BROWNSVILLE	93	76	97	72	84	4	0.00	-0.63	0.00	3.14	69	7.50	109	90	52	7	0	0	0
	CORPUS CHRISTI	92	73	94	65	82	4	0.00	-0.71	0.00	0.92	16	3.47	37	94	56	7	0	0	0
	DEL RIO	101	74	103	72	88	8	0.00	-0.68	0.00	2.50	54	2.67	43	77	23	7	0	0	0
	EL PASO	96	67	101	50	81	7	0.00	-0.12	0.00	0.15	16	1.32	73	15	6	7	0	0	0
	FORT WORTH	94	71	97	64	83	8	0.00	-1.09	0.00	5.62	57	11.52	79	79	35	7	0	0	0
	GALVESTON	90	80	92	77	85	6	0.00	0.00	0.00	4.34	0	7.02	0	80	60	5	0	0	0
	HOUSTON	93	75	95	71	84	6	0.00	-1.14	0.00	6.55	64	17.14	103	87	43	7	0	0	0
	LUBBOCK	94	63	102	50	78	8	0.16	-0.38	0.16	0.41	10	0.72	13	63	13	6	0	1	0
	MIDLAND	99	71	103	62	85	10	0.00	-0.44	0.00	0.11	4	0.38	10	54	6	6	0	0	0
	SAN ANGELO	103	70	107	64	86	11	0.00	-0.67	0.00	1.00	21	1.43	20	69	12	7	0	0	0
	SAN ANTONIO	99	73	101	71	86	8	0.00	-0.93	0.00	1.79	25	3.83	36	86	28	7	0	0	0
	VICTORIA	94	72	97	67	83	6	0.00	-1.28	0.00	1.25	13	4.66	34	93	46	7	0	0	0
	WACO	96	71	97	63	83	8	0.59	-0.36	0.59	4.87	56	6.89	51	84	39	7	0	1	1
	WICHITA FALLS	94	68	102	60	81	9	0.04	-0.77	0.04	3.31	46	4.82	47	82	29	5	0	1	0
UT	SALT LAKE CITY	76	52	88	41	64	4	0.00	-0.44	0.00	2.93	56	3.67	47	53	18	0	0	0	0
VA	LYNCHBURG	87	58	94	51	73	9	0.00	-0.81	0.00	7.32	79	14.28	93	86	34	2	0	0	0
	NORFOLK	85	64	94	57	75	8	0.25	-0.51	0.25	9.40	102	15.06	95	88	44	2	0	1	0
	RICHMOND	88	62	97	54	75	8	0.08	-0.80	0.04	7.30	74	13.29	85	87	35	2	0	2	0
	ROANOKE	86	60	96	54	73	8	0.29	-0.63	0.29	7.18	76	13.56	89	83	36	2	0	1	0
	WASH/DULLES	84	59	92	52	71	8	0.47	-0.61	0.41	8.23	83	14.31	94	90	42	1	0	3	0
VT	BURLINGTON	74	53	89	43	63	6	2.11	1.33	0.77	8.89	122	12.18	110	93	48	0	0	5	1
WA	OLYMPIA	61	41	68	35	51	-3	1.30	0.79	0.79	11.61	111	27.57	117	96	50	0	0	3	1
	QUILLAYUTE	56	41	59	39	49	-3	2.87	1.79	1.05	28.29	126	52.15	110	100	70	0	0	5	2
	SEATTLE-TACOMA	60	46	67	42	53	-4	0.88	0.47	0.65	9.14	118	21.27	127	88	51	0	0	2	1
	SPOKANE	60	41	67	36	51	-5	0.32	-0.06	0.12	3.44	87	6.38	90	84	35	0	0	3	0
	YAKIMA	69	43	73	36	56	-2	0.19	0.07	0.19	1.69	108	3.16	89	73	27	0	0	1	0
WI	EAU CLAIRE	69	46	76	41	58	-1	0.94	0.15	0.62	4.48	66	4.49	52	85	39	0	0	3	1
	GREEN BAY	72	51	78	42	61	6	0.52	-0.13	0.41	9.07	143	9.60	112	77	37	0	0	3	0
	LA CROSSE	71	51	78	44	61	1	2.25	1.47	1.41	7.82	101	8.68	88	85	37	0	0	4	2
	MADISON	71	51	82	45	61	3	0.24	-0.54	0.12	8.80	111	9.67	91	80	42	0	0	4	0
	MILWAUKEE	70	51	80	47	61	5	0.31	-0.45	0.24	9.17	114	10.48	91	79	49	0	0	3	0
WV	BECKLEY	78	56	87	49	67	7	0.64	-0.44	0.25	7.60	75	16.49	106	93	40	0	0	5	0
	CHARLESTON	83	58	91	50	71	6	0.35	-0.77	0.19	10.15	98	20.32	123	96	41	2	0	2	0
	ELKINS	78	50	88	43	64	5	1.27	0.08	0.43	10.81	96	19.48	111	96	44	0	0	5	0
	HUNTINGTON	83	60	91	52	72	7	0.24	-0.83	0.12	9.54	91	19.87	120	89	41	2	0	2	0
WY	CASPER	66	33	82	29	49	-4	0.33	-0.15	0.14	4.35	123	6.05	131	94	31	0	5	4	0
	CHEYENNE	68	38	81	24	53	0	0.20	-0.33	0.20	2.01	46	3.19	61	81	22	0	2	1	0
	LANDER	65	39	76	30	52	-2	0.00	-0.50	0.00	5.61	122	7.07	126	68	26	0	1	0	0
	SHERIDAN	64	38	75	32	51	-2	0.26	-0.26	0.12	7.32	174	8.50	160	86	38	0	2	4	0

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

National Agricultural Summary

May 16 – 22, 2022

Weekly National Agricultural Summary provided by USDA/NASS

HIGHLIGHTS

Much of the nation was drier than normal, but large parts of Colorado, Florida, the Mississippi Valley, New England, Ohio Valley, and Washington received at least twice the normal amount of precipitation. Some locations in central Florida recorded 4 inches or more of rain for the week. Meanwhile, most of the southern half of the U.S. recorded above-normal weekly temperatures. Large sections of Texas recorded temperatures 9°F or more above normal. Most of the mid-Atlantic and Northeast also noted above-normal temperatures, while the Pacific Northwest, northern Plains, and northern Rockies were cooler than normal. Much of Washington, along with parts of Idaho, Montana, North Dakota, and Oregon, recorded temperatures 6°F or more below normal.

Corn: By May 22, producers had planted 72 percent of the nation's corn crop, 17 percentage points behind last year and 7 points behind the 5-year average. Corn planting progress was at or behind the 5-year average in 15 of the 18 estimating states. Eighty-six percent of Iowa's intended corn acreage was planted by week's end, 11 percentage points behind last year and 3 points behind average. Thirty-nine percent of the nation's corn acreage had emerged by May 22, twenty-two percentage points behind the previous year and 12 points behind average.

Soybeans: Fifty percent of the nation's soybean acreage was planted by May 22, twenty-three percentage points behind last year and 5 points behind the 5-year average. Advances of 10 percentage points or more were reported during the week in 15 of the 18 estimating states. Progress was furthest advanced in Louisiana and Mississippi, with 97 and 89 percent planted, respectively. Twenty-one percent of the nation's soybean acreage had emerged by May 22, seventeen percentage points behind last year and 5 points behind average.

Winter Wheat: By May 22, sixty-three percent of the nation's winter wheat was headed, 2 percentage points behind both last year and the 5-year average. On May 22, twenty-eight percent of the 2022 winter wheat crop was reported in good to excellent condition, one percentage point above the previous week but 19 percentage points below last year. In Kansas, the largest winter wheat-producing state, 25 percent of the winter wheat crop was rated in good to excellent condition.

Cotton: Nationwide, 54 percent of the cotton crop was planted by May 22, seven percentage points ahead of the previous year and 3 points ahead of the 5-year average. Advances of 10 percentage points or more were reported during the week in 13 of the 15 estimating states.

Sorghum: Thirty-three percent of the nation's sorghum acreage was planted by May 22, one percentage point ahead of the previous year but 2 points behind the 5-year average. Texas had planted 79 percent of its sorghum acreage by May 22, four percentage points ahead of the previous year but 3 points behind average.

Rice: By May 22, producers had seeded 91 percent of the 2022 rice acreage, 3 percentage points behind the previous year but 2 points ahead of the 5-year average. Advances of 10 percentage points or more were reported during the week in four of the six estimating states. By May 22, sixty-six percent of the nation's rice acreage had emerged, 8 percentage points behind last year and 5 points behind average. On May 22, seventy percent of the nation's rice was rated in good to excellent condition, 1 percentage point below the same time last year.

Small Grains: Nationally, oat producers had seeded 77 percent of this year's acreage by May 22, eighteen percentage points behind the previous year and 13 points behind the 5-year average. Oat planting progress was behind the 5-year average in six of the nine estimating states. Fifty-eight percent of the nation's oat acreage was emerged by May 22, twenty-four percentage points behind the previous year and 16 points behind average. On May 22, forty-five percent of the nation's oat acreage was rated in good to excellent condition, 8 percentage points below the same time last year.

Seventy-one percent of the nation's barley was planted by May 22, nineteen percentage points behind last year and 14 points behind the 5-year average. Planting progress in Minnesota and North Dakota remains far behind the normal pace. Forty-seven percent of the nation's barley had emerged by May 22, fifteen percentage points behind the previous year and 8 points behind average.

By May 22, forty-nine percent of the spring wheat crop was seeded, 44 percentage points behind last year and 34 points behind the 5-year average. Planting progress in Minnesota and North Dakota remains far behind the normal pace. By May 22, twenty-nine percent of the nation's spring wheat crop had emerged, 34 percentage points behind the previous year and 21 points behind average.

Other Crops: Nationally, peanut producers had planted 65 percent of the 2022 peanut acreage by May 22, seven percentage points ahead of the previous year and 1 point ahead of the 5-year average. Producers in Georgia, the largest peanut-producing state, had planted 71 percent of the 2022 intended acreage by week's end, 8 percentage points ahead of the previous year and 3 points ahead of average.

By May 22, fifty percent of the sugarbeet crop was planted, 49 percentage points behind last year and 45 points behind the 5-year average. Planting progress in Minnesota and North Dakota remains far behind the normal pace.

Five percent of the nation's intended 2022 sunflower acreage was planted by May 22, fifteen percentage points behind last year and 10 points behind the 5-year average.

Crop Progress and Condition

Week Ending May 22, 2022

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

Corn Percent Planted

	Prev Year	Prev Week	May 22 2022	5-Yr Avg
CO	62	41	66	72
IL	89	55	78	78
IN	79	40	64	68
IA	97	57	86	89
KS	75	60	76	76
KY	84	65	81	81
MI	85	31	60	60
MN	98	35	60	86
MO	89	65	84	86
NE	94	62	85	88
NC	97	95	97	96
ND	81	4	20	66
OH	71	31	52	59
PA	73	33	43	53
SD	92	31	62	71
TN	93	84	93	91
TX	92	87	92	91
WI	88	34	61	69
18 Sts	89	49	72	79

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

Corn Percent Emerged

	Prev Year	Prev Week	May 22 2022	5-Yr Avg
CO	29	6	30	35
IL	72	13	48	60
IN	52	9	32	44
IA	72	8	47	60
KS	54	28	46	53
KY	63	32	54	60
MI	48	2	18	24
MN	72	2	24	51
MO	75	30	57	72
NE	58	19	48	56
NC	91	89	93	90
ND	36	0	1	21
OH	35	5	24	32
PA	27	0	6	23
SD	50	1	11	33
TN	76	48	67	77
TX	83	74	84	81
WI	53	3	26	30
18 Sts	61	14	39	51

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

Cotton Percent Planted

	Prev Year	Prev Week	May 22 2022	5-Yr Avg
AL	64	54	74	73
AZ	91	84	94	93
AR	67	53	74	75
CA	89	99	100	87
GA	58	39	59	60
KS	38	41	70	31
LA	48	80	95	78
MS	64	55	81	65
MO	82	47	85	63
NC	60	47	68	57
OK	24	20	26	26
SC	71	48	65	64
TN	63	49	78	63
TX	39	30	44	44
VA	63	34	54	63
15 Sts	47	37	54	51

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

Soybeans Percent Planted

	Prev Year	Prev Week	May 22 2022	5-Yr Avg
AR	69	57	71	64
IL	79	38	62	57
IN	66	28	50	53
IA	88	34	69	67
KS	50	32	49	40
KY	53	41	51	40
LA	56	89	97	79
MI	79	32	47	46
MN	96	11	32	68
MS	81	80	89	76
MO	43	19	38	40
NE	83	44	72	69
NC	50	44	61	43
ND	72	2	7	47
OH	61	18	36	43
SD	81	15	34	47
TN	53	36	53	44
WI	80	26	49	48
18 Sts	73	30	50	55

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

Soybeans Percent Emerged

	Prev Year	Prev Week	May 22 2022	5-Yr Avg
AR	54	36	56	49
IL	57	9	27	35
IN	38	4	20	27
IA	49	3	18	28
KS	25	11	24	20
KY	30	17	27	21
LA	42	70	88	67
MI	37	2	13	16
MN	43	0	7	22
MS	66	63	76	61
MO	25	6	16	21
NE	40	8	27	30
NC	35	27	43	27
ND	16	0	0	8
OH	26	3	12	18
SD	25	0	4	12
TN	31	16	30	23
WI	34	1	14	14
18 Sts	38	9	21	26

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

Peanuts Percent Planted

	Prev Year	Prev Week	May 22 2022	5-Yr Avg
AL	57	48	61	64
FL	77	60	77	75
GA	63	48	71	68
NC	52	40	62	51
OK	34	13	26	43
SC	80	56	68	71
TX	20	28	39	49
VA	73	51	72	65
8 Sts	58	47	65	64

These 8 States planted 96% of last year's peanut acreage.

Sorghum Percent Planted

	Prev Year	Prev Week	May 22 2022	5-Yr Avg
CO	10	5	10	14
KS	11	5	11	9
NE	26	4	24	31
OK	21	7	20	24
SD	35	11	21	23
TX	75	73	79	82
6 Sts	32	26	33	35

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

Crop Progress and Condition

Week Ending May 22, 2022

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

Rice Percent Planted

	Prev Year	Prev Week	May 22 2022	5-Yr Avg
AR	92	76	90	88
CA	95	80	90	83
LA	95	96	98	97
MS	92	84	96	87
MO	94	56	80	85
TX	95	92	96	92
6 Sts	94	80	91	89

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

Rice Percent Emerged

	Prev Year	Prev Week	May 22 2022	5-Yr Avg
AR	79	53	70	78
CA	41	20	30	27
LA	85	91	94	92
MS	79	68	83	70
MO	83	15	43	69
TX	86	82	85	86
6 Sts	74	53	66	71

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

Rice Condition by Percent

	VP	P	F	G	EX
AR	0	1	24	59	16
CA	0	0	40	55	5
LA	0	1	21	74	4
MS	0	4	25	59	12
MO	0	9	33	58	0
TX	0	7	46	43	4
6 Sts	0	2	28	60	10
Prev Wk	NA	NA	NA	NA	NA
Prev Yr	0	3	26	58	13

Oats Percent Planted

	Prev Year	Prev Week	May 22 2022	5-Yr Avg
IA	100	89	96	99
MN	97	44	59	90
NE	100	94	96	96
ND	86	21	36	75
OH	94	71	90	90
PA	87	70	80	88
SD	98	74	88	91
TX	100	100	100	100
WI	95	54	75	83
9 Sts	95	67	77	90

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

Oats Percent Emerged

	Prev Year	Prev Week	May 22 2022	5-Yr Avg
IA	95	58	82	90
MN	84	18	36	68
NE	93	72	87	88
ND	49	2	11	36
OH	86	43	72	78
PA	65	38	48	74
SD	82	40	57	75
TX	100	100	100	100
WI	81	20	44	58
9 Sts	82	45	58	74

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

Oat Condition by Percent

	VP	P	F	G	EX
IA	0	2	23	60	15
MN	26	2	23	43	6
NE	10	13	27	48	2
ND	1	2	39	57	1
OH	0	1	18	57	24
PA	0	2	25	70	3
SD	1	17	55	26	1
TX	48	29	16	6	1
WI	0	1	23	63	13
9 Sts	15	11	29	40	5
Prev Wk	NA	NA	NA	NA	NA
Prev Yr	4	10	33	47	6

Spring Wheat Percent Planted

	Prev Year	Prev Week	May 22 2022	5-Yr Avg
ID	99	85	90	92
MN	100	5	11	90
MT	85	70	85	81
ND	93	17	27	80
SD	99	78	94	92
WA	100	91	96	96
6 Sts	93	39	49	83

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

Spring Wheat Percent Emerged

	Prev Year	Prev Week	May 22 2022	5-Yr Avg
ID	81	58	65	72
MN	92	1	4	59
MT	55	30	59	48
ND	55	2	9	42
SD	85	43	69	71
WA	86	58	66	81
6 Sts	63	16	29	50

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

Sugarbeets Percent Planted

	Prev Year	Prev Week	May 22 2022	5-Yr Avg
ID	100	97	99	97
MI	100	94	96	95
MN	100	8	27	94
ND	100	9	23	96
4 Sts	99	37	50	95

These 4 States planted 84% of last year's sugarbeet acreage.

Sunflowers Percent Planted

	Prev Year	Prev Week	May 22 2022	5-Yr Avg
CO	9	2	5	8
KS	13	4	10	10
ND	27	0	3	21
SD	16	1	6	11
4 Sts	20	1	5	15

These 4 States planted 86% of last year's sunflower acreage.

Crop Progress and Condition

Week Ending May 22, 2022

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

Winter Wheat Percent Headed

	Prev Year	Prev Week	May 22 2022	5-Yr Avg
AR	90	91	98	96
CA	99	90	95	99
CO	22	6	30	36
ID	6	3	8	10
IL	89	57	71	82
IN	49	18	40	56
KS	80	60	86	80
MI	12	1	2	5
MO	89	62	88	87
MT	2	1	2	0
NE	25	10	27	27
NC	97	93	96	96
OH	42	6	29	44
OK	97	78	95	96
OR	62	3	22	38
SD	8	0	1	6
TX	95	86	92	96
WA	23	2	7	24
18 Sts	65	48	63	65

These 18 States planted 89%
of last year's winter wheat acreage.

Winter Wheat Condition by Percent

	VP	P	F	G	EX
AR	0	2	24	57	17
CA	0	0	15	85	0
CO	26	28	33	11	2
ID	0	3	34	50	13
IL	4	11	30	45	10
IN	3	7	25	51	14
KS	17	23	35	23	2
MI	4	16	31	45	4
MO	0	3	28	60	9
MT	14	9	64	13	0
NE	20	21	28	25	6
NC	0	1	15	72	12
OH	3	6	29	44	18
OK	28	18	44	9	1
OR	2	5	28	39	26
SD	4	20	46	29	1
TX	54	25	16	5	0
WA	1	4	34	55	6
18 Sts	22	18	32	24	4
Prev Wk	24	17	32	24	3
Prev Yr	5	13	35	39	8

Barley Percent Planted

	Prev Year	Prev Week	May 22 2022	5-Yr Avg
ID	99	81	88	94
MN	95	16	23	89
MT	81	80	90	83
ND	91	11	26	79
WA	99	89	94	90
5 Sts	90	61	71	85

These 5 States planted 82%
of last year's barley acreage.

Barley Percent Emerged

	Prev Year	Prev Week	May 22 2022	5-Yr Avg
ID	76	58	68	74
MN	83	3	11	56
MT	56	36	60	52
ND	52	3	7	40
WA	82	44	69	73
5 Sts	62	32	47	55

These 5 States planted 82%
of last year's barley acreage.

Crop Progress and Condition

Week Ending May 22, 2022

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

Pasture and Range Condition by Percent
Week Ending May 22, 2022

	VP	P	F	G	EX		VP	P	F	G	EX
AL	2	7	34	55	2	NH	0	0	0	31	69
AZ	27	56	12	5	0	NJ	0	0	11	79	10
AR	1	8	41	39	11	NM	20	31	36	12	1
CA	0	15	40	45	0	NY	0	1	11	65	23
CO	40	25	17	18	0	NC	0	13	48	37	2
CT	0	0	80	20	0	ND	2	22	36	31	9
DE	0	0	39	56	5	OH	0	3	16	67	14
FL	6	18	42	25	9	OK	24	12	33	29	2
GA	3	15	39	38	5	OR	8	32	26	27	7
ID	1	6	27	64	2	PA	0	6	20	49	25
IL	1	3	20	49	27	RI	0	0	0	100	0
IN	1	3	22	59	15	SC	1	15	48	36	0
IA	1	8	32	48	11	SD	17	28	41	13	1
KS	15	20	35	28	2	TN	1	9	38	47	5
KY	0	2	19	64	15	TX	46	30	15	8	1
LA	1	6	38	54	1	UT	6	30	46	18	0
ME	0	0	22	78	0	VT	0	0	0	60	40
MD	0	1	24	50	25	VA	1	16	39	40	4
MA	0	0	45	50	5	WA	2	14	45	37	2
MI	1	4	30	49	16	WV	1	3	26	62	8
MN	7	11	35	40	7	WI	1	6	31	44	18
MS	2	7	36	44	11	WY	24	18	28	27	3
MO	0	2	29	58	11	48 Sts	24	26	28	20	2
MT	34	31	26	9	0						
NE	16	23	34	26	1	Prev Wk	25	24	29	20	2
NV	15	25	50	10	0	Prev Yr	18	21	33	24	4

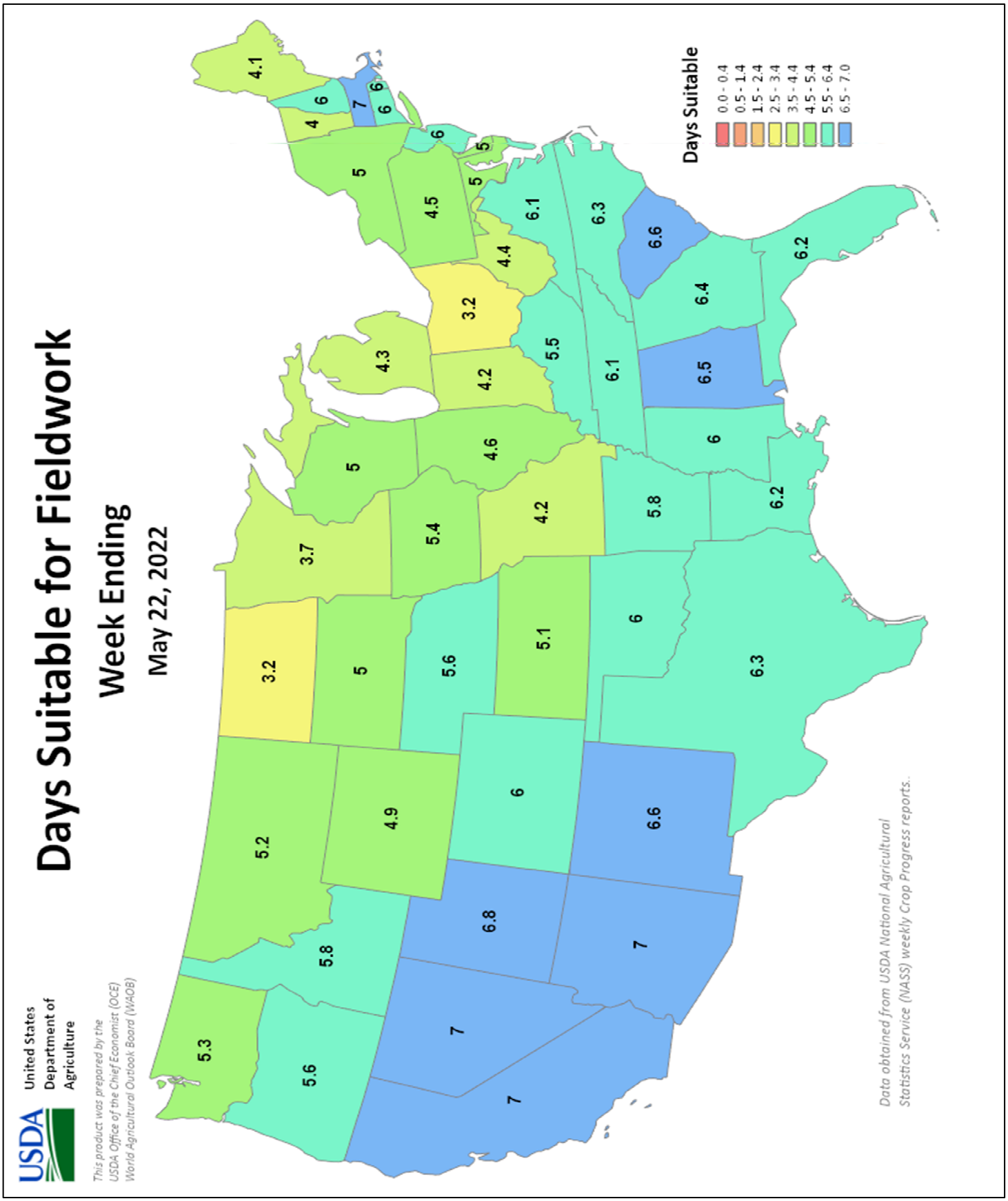
VP - Very Poor; P - Poor;
F - Fair;
G - Good; EX - Excellent

NA - Not Available
*** Revised**

Crop Progress and Condition

Week Ending May 22, 2022

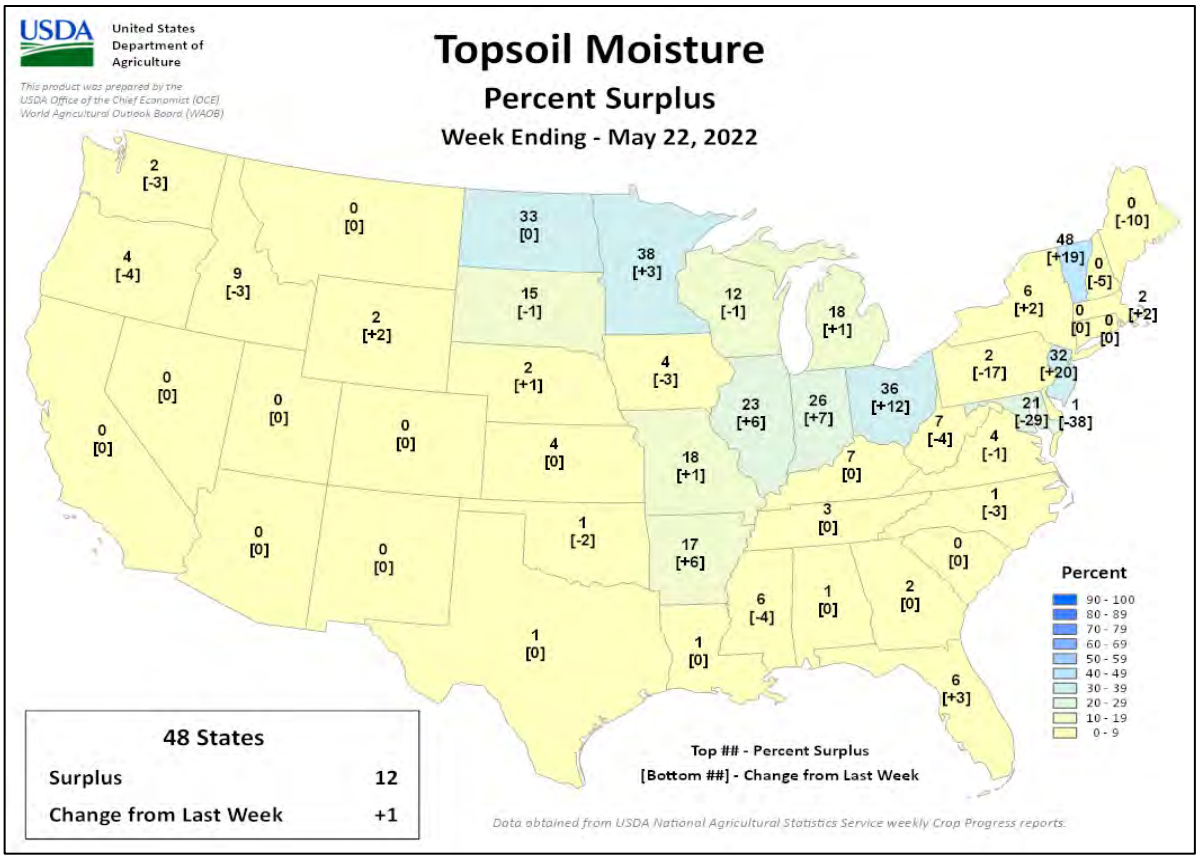
Weekly U.S. Progress and Condition Data provided by USDA/NASS

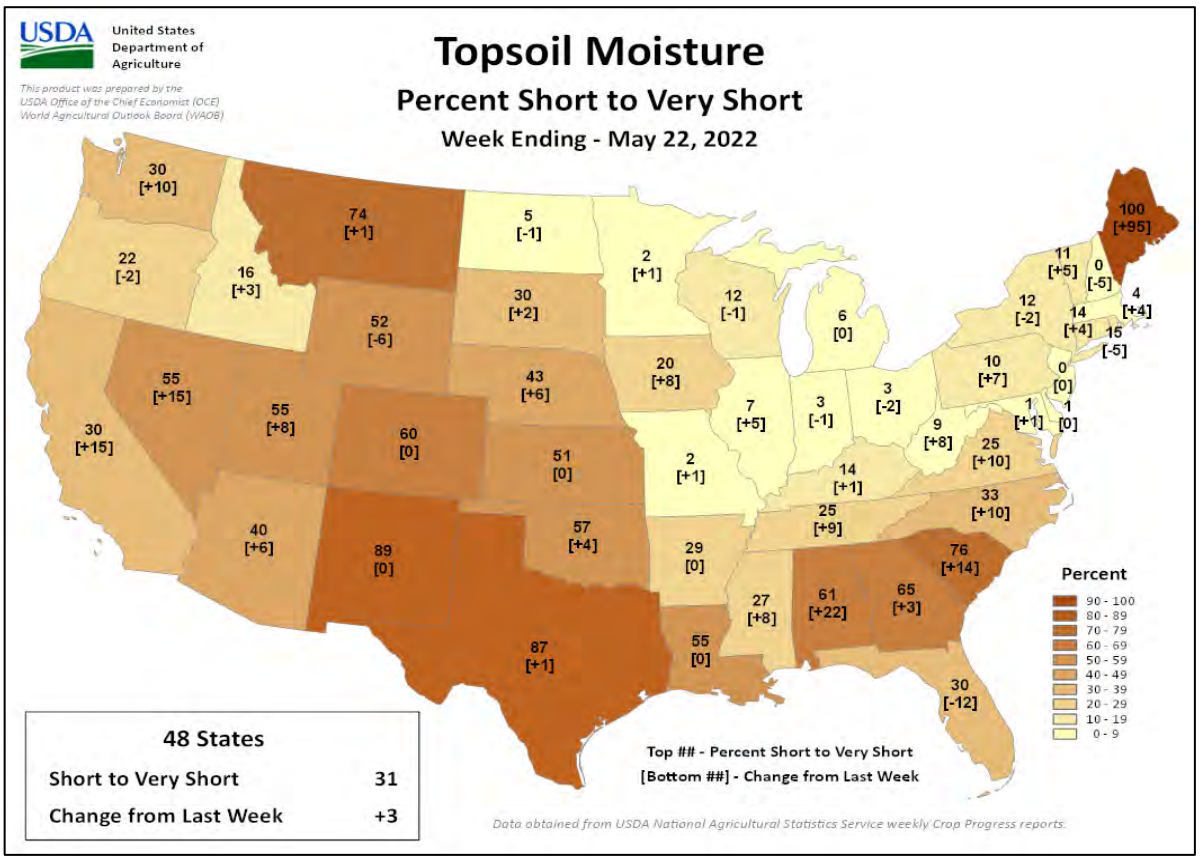


Crop Progress and Condition

Week Ending May 22, 2022

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

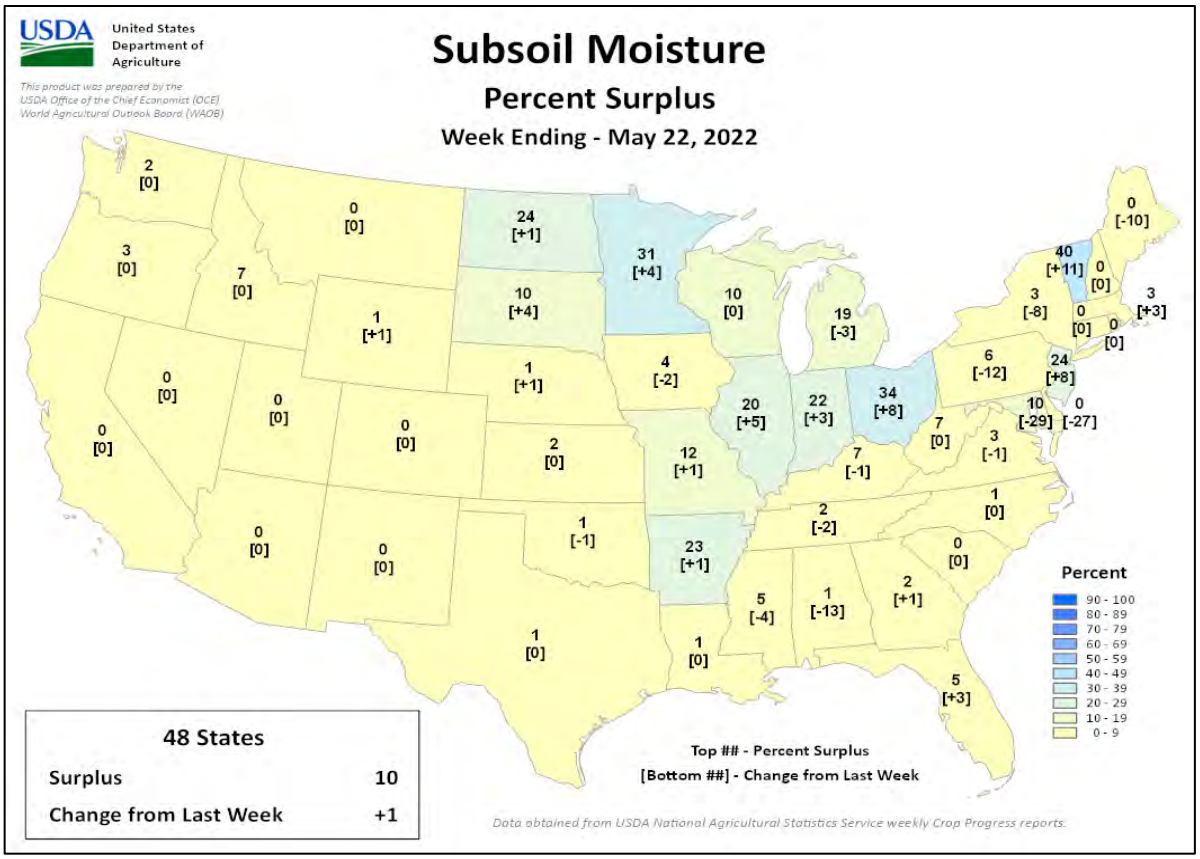


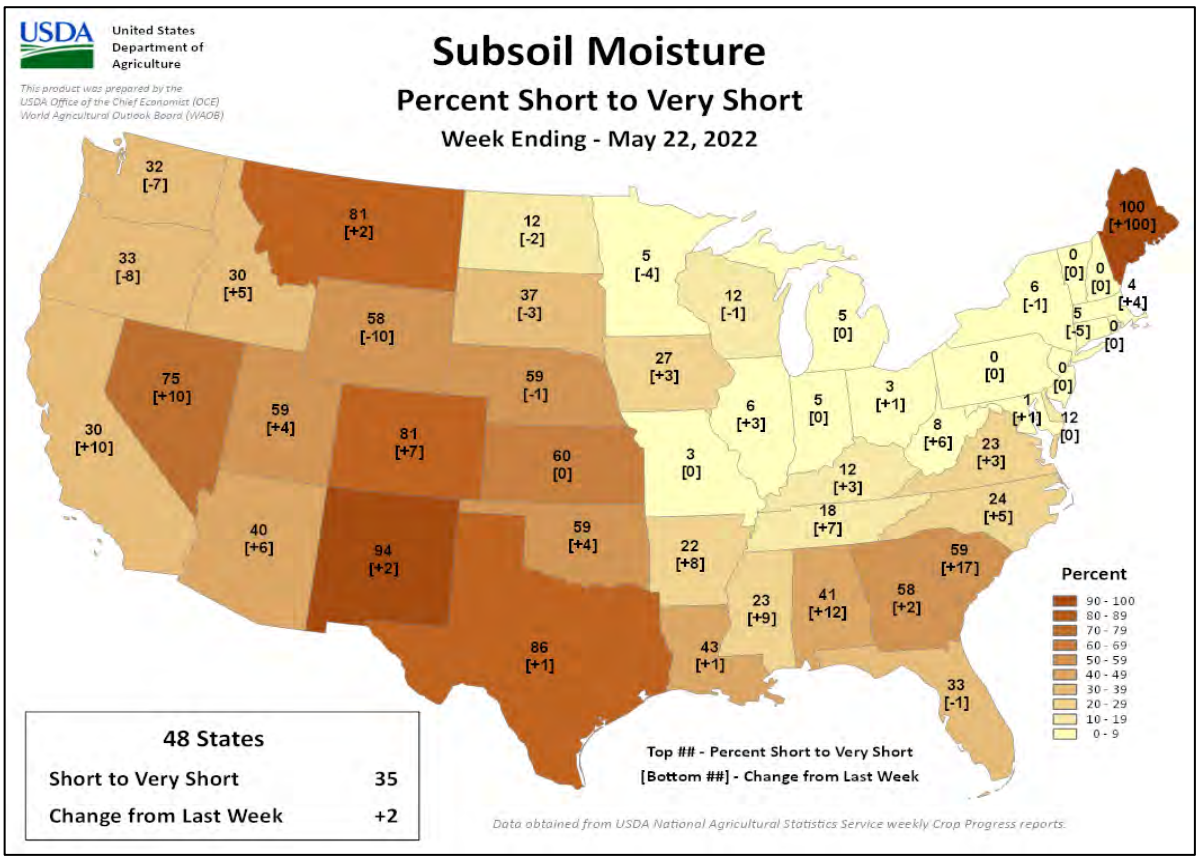


Crop Progress and Condition

Week Ending May 22, 2022

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





International Weather and Crop Summary

May 15-21, 2022

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

HIGHLIGHTS

EUROPE: Beneficial showers in northern and eastern Europe contrasted with hot, dry conditions in southwestern growing areas.

WESTERN FSU: Chilly, wet weather across much of the region sustained excellent winter wheat prospects in Russia and improved conditions for winter crops in Ukraine and Moldova.

EASTERN FSU: Highly variable conditions were noted in the spring grain belt, while additional late-season showers in the south boosted soil moisture for filling winter wheat and cotton development.

MIDDLE EAST: Late-season rain in Turkey contrasted with seasonably drier weather in central and southern portions of the region.

SOUTH ASIA: Pre-monsoon showers moved into portions of India, encouraging early planting of kharif crops.

EAST ASIA: Showers in southern-most parts of China benefited early-crop rice, while sunny, warm weather farther north aided maturation of winter crops.

SOUTHEAST ASIA: Continued monsoon downpours in Thailand and environs bolstered moisture supplies for the main cropping season, as monsoon showers began in the northern Philippines.

AUSTRALIA: Passing showers benefited winter crops but periods of drier weather allowed summer crop harvesting to resume.

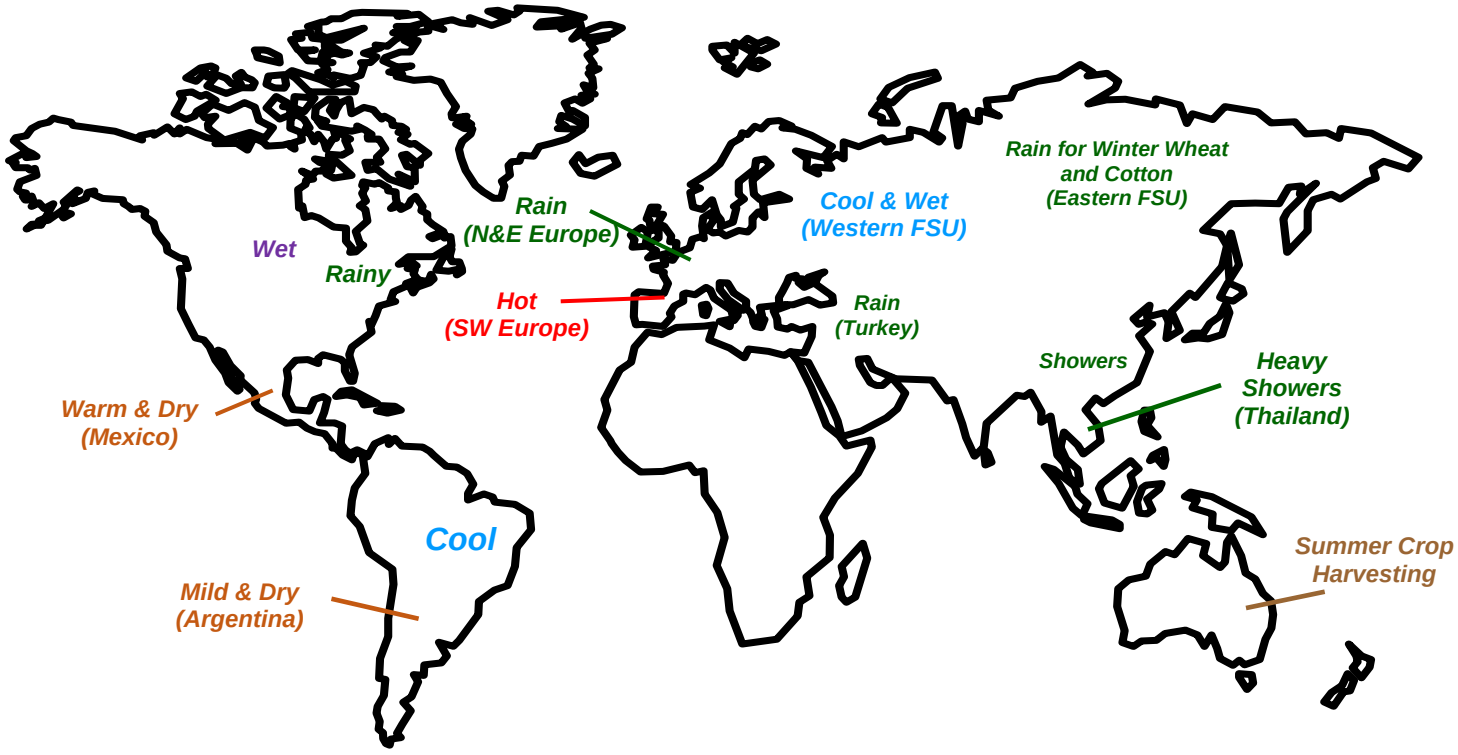
ARGENTINA: Conditions were generally favorable for seasonal fieldwork.

BRAZIL: Mostly dry, unseasonably cool weather dominated key farming areas of central and southern Brazil.

MEXICO: Unseasonable warmth and dryness persisted, reducing moisture for corn and other rain-fed summer crops.

CANADIAN PRAIRIES: Beneficial rain fell in dry western locations, while excessive field moisture limited spring plantings farther east.

SOUTHEASTERN CANADA: Warm, showery weather prevailed across the region.



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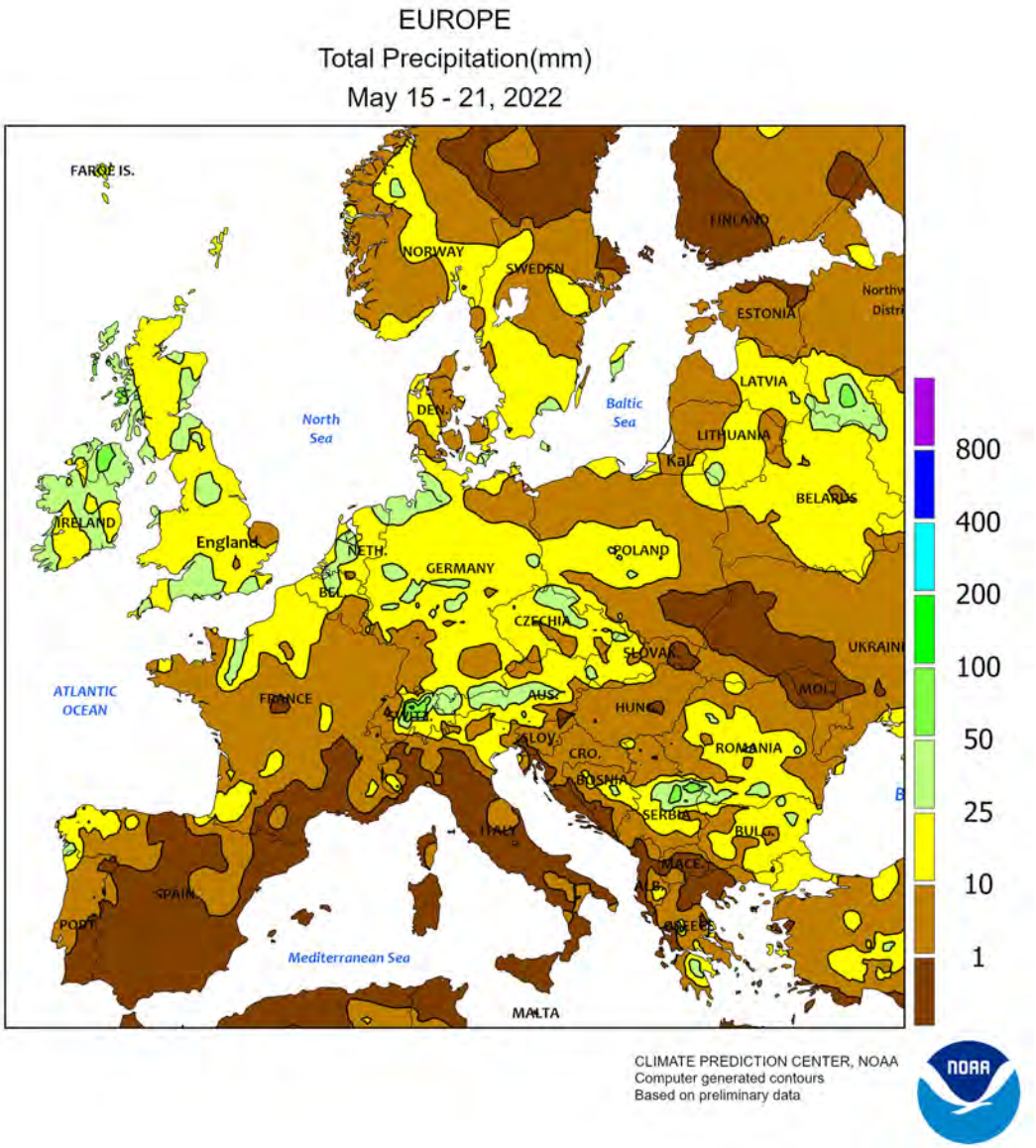

EUROPE

Stormy weather across much of northern and eastern Europe contrasted with dry, hot conditions in southwestern growing areas. In northern France, the first appreciable rain (10-25 mm) since early April provided sorely-needed soil moisture for flowering to filling winter grains and oilseeds. However, a more widespread soaking rainfall will be needed in France to ease the impacts of acute spring dryness. Moderate to heavy showers — some severe — were likewise noted from England into Germany, Poland, and the Baltic States, maintaining (northwest) or improving (center and east) soil moisture supplies for vegetative to reproductive winter crops. Another area of beneficial showers (5-25 mm) was noted in southeastern Europe, though dry conditions (less than 5 mm) lingered over Hungary and immediate environs. Conversely, summer-like heat (30s degrees C) enveloped crop areas from central France onto the Iberian Peninsula, with highs locally topping 40°C in southern Spain. The heat (locally up to 9°C above normal) likely trimmed winter grain yield prospects somewhat, though crops were able to withstand the heat with limited impacts due to favorable soil moisture from heavy April rainfall.

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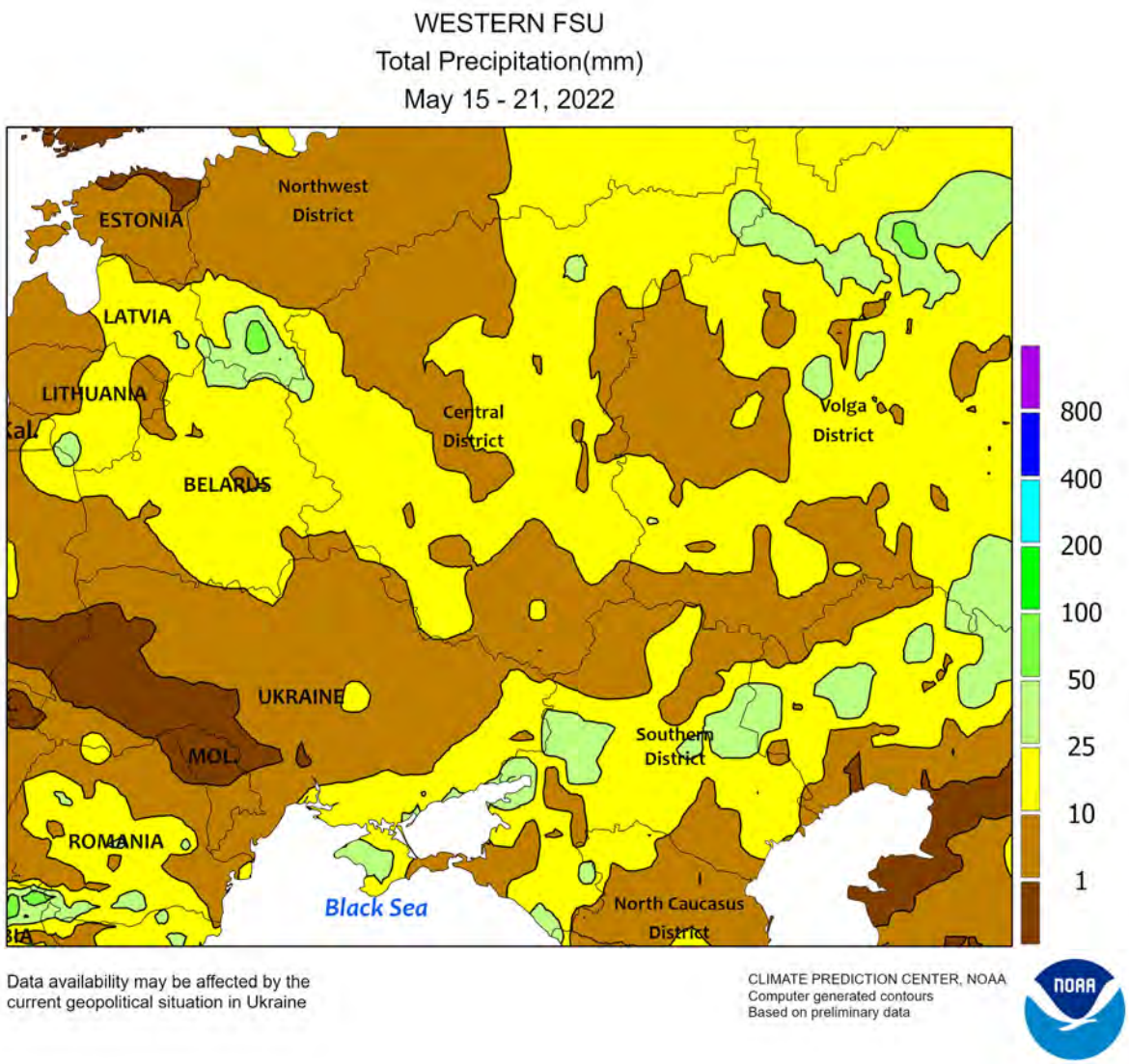

WESTERN FSU

Unsettled, chilly weather prevailed across the region during the monitoring period. Light to moderate showers (2-22 mm) lingered from southern Moldova into central Ukraine, further improving soil moisture supplies for winter crops approaching or progressing through reproduction. Meanwhile, another round of moderate to heavy rain (10-35 mm) from Belarus eastward into central Russia boosted moisture reserves for spring grains and summer crops but continued to slow fieldwork. Moderate to heavy rainfall (10-60 mm) also returned to southwestern Russia, maintaining abundant moisture supplies for vegetative (north) to reproductive (south) winter wheat. Temperatures averaged near to below normal (up to 3°C below normal) over Belarus, Ukraine, and Moldova, while unseasonably cold weather (3-7°C below normal) prevailed over much of western and central Russia. The latest satellite-derived Vegetation Health Index (VHI) indicated good to excellent crop vigor in southwestern Russia as winter wheat entered and progressed through the key stages of development, while the VHI remained fair to poor from Moldova into northern Ukraine.

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

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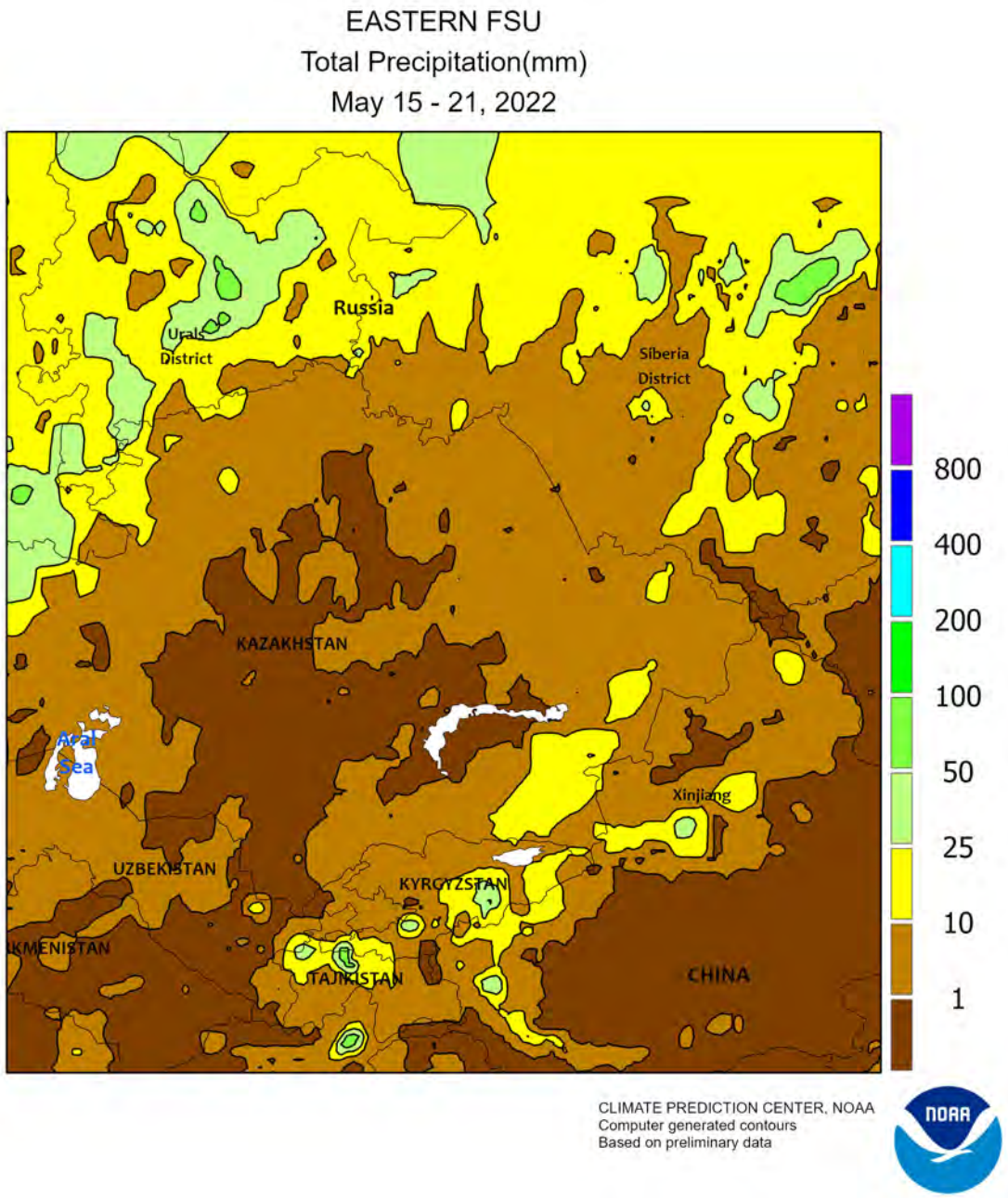
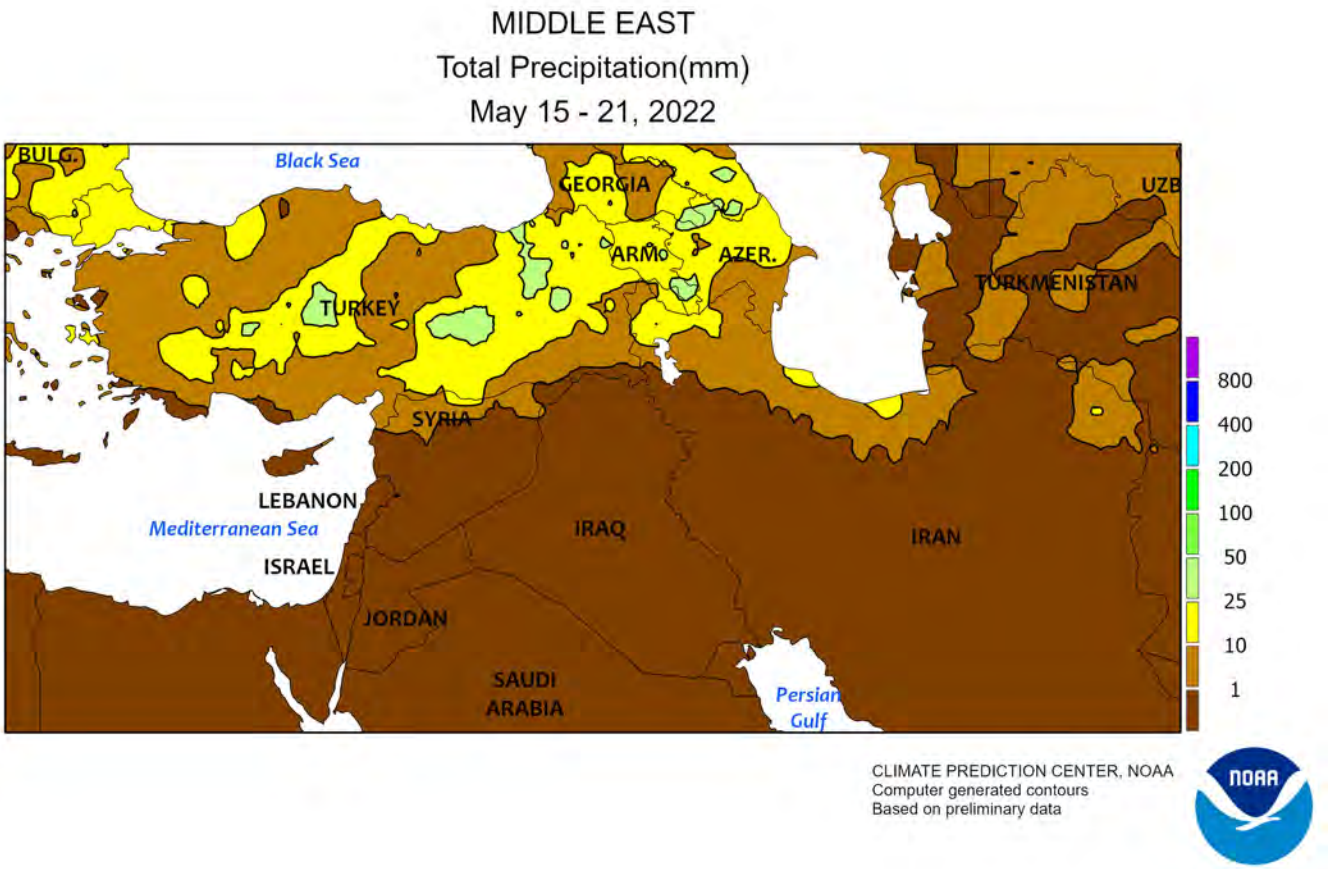


EASTERN FSU

Warm weather prevailed, with heavy rain in northern and southeastern portions of the region contrasting with mostly dry conditions in east-central croplands. During the monitoring period, late spring grain sowing proceeded without significant delay (rainfall generally less than 5 mm) from northeastern Kazakhstan into the southwestern Siberia District. However, moderate to heavy showers (10-70 mm) overspread northern and western spring grain areas, boosting moisture supplies for wheat and barley emergence and establishment. Temperatures in the spring grain belt varied from cool in the far west (up to 4°C below normal in the Volga District) to summer-like heat (up to 11°C above normal) in the Siberia District. Farther south, moderate to heavy rain (5-55 mm) continued across Tajikistan and Kyrgyzstan, maintaining good prospects for filling winter wheat but slowing late cotton planting activities. Warm and drier weather (1-3°C above normal, 5 mm or less) overspread the remainder of the Central Asia cotton belt, promoting fieldwork and cotton emergence. The latest satellite-derived Vegetation Health Index indicated good to excellent conditions for filling to maturing winter crops across the entire region.

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



MIDDLE EAST

Late-season rain over Turkey juxtaposed with seasonably dry weather elsewhere. Moderate to heavy showers on central Turkey's Anatolian Plateau (10-25 mm, locally more) provided additional moisture improvements for reproductive winter grains, while widespread soaking rain (10-35 mm) over eastern Turkey boosted irrigation reserves for summer crops. Temperatures in these aforementioned areas averaged 1 to 3°C below normal, slowing crop development somewhat. In northwestern Turkey, near-normal temperatures coupled with occasional showers were likewise beneficial for reproductive winter wheat. Rain brushed northern Iran (1-25 mm), locally improving soil moisture supplies for reproductive to filling wheat and barley. The remainder of the region was dry, likely indicating an end to much of the Middle East's rainy season while promoting winter grain drydown and early harvesting.

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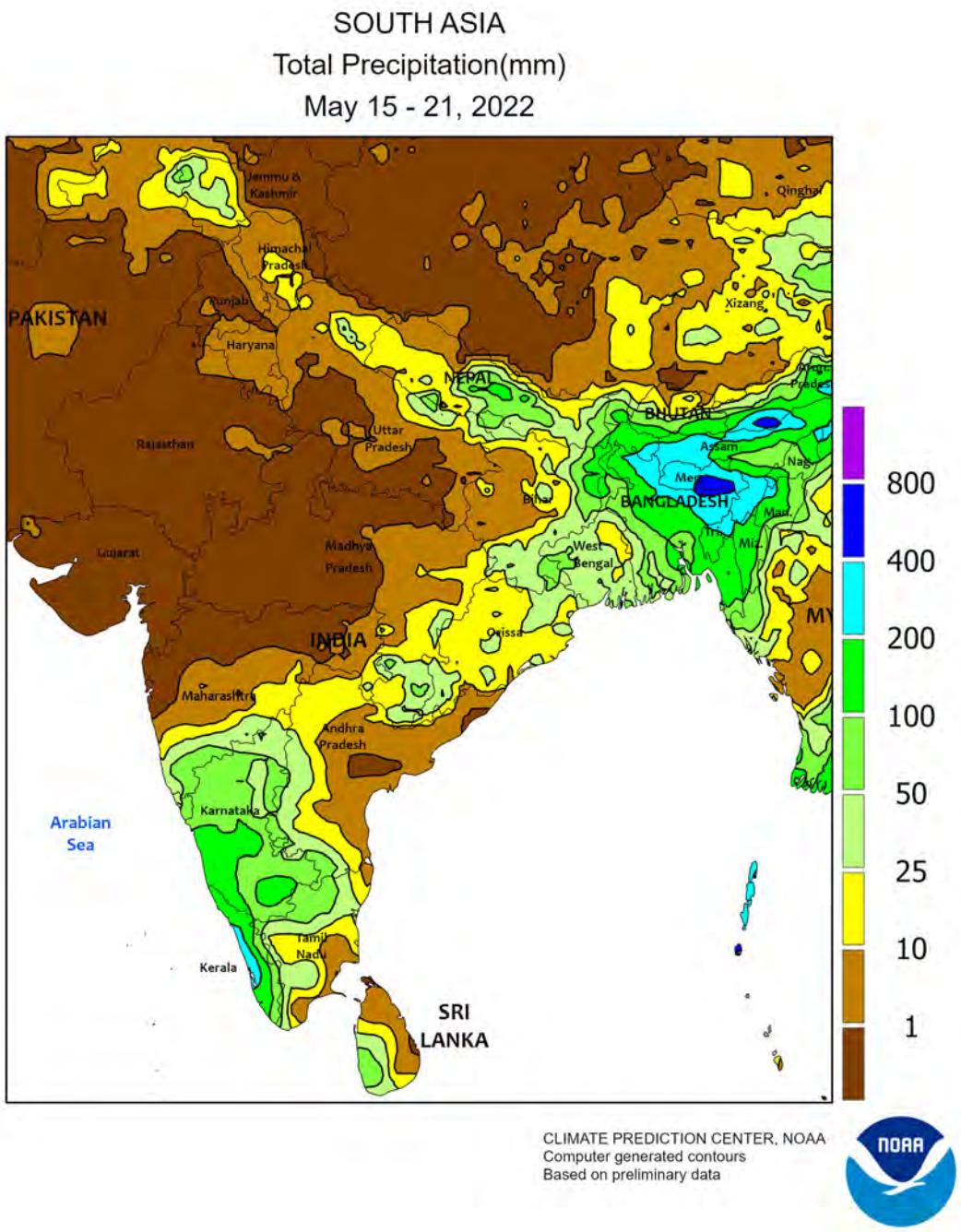

SOUTH ASIA

Heavy pre-monsoon showers (50-150 mm or more) moved into southern India as well as portions of the northeast (including Bangladesh). The early-season rainfall encouraged kharif crop (rice primarily) sowing to begin in the affected areas. The start of the summer monsoon (wet) season typically occurs in early June. Meanwhile, interior India and Pakistan continued to swelter under temperatures that exceeded the already high values typical for this time of year. Daytime temperatures approached 50°C in some locales, limiting the ability to perform fieldwork or even plant irrigated crops.

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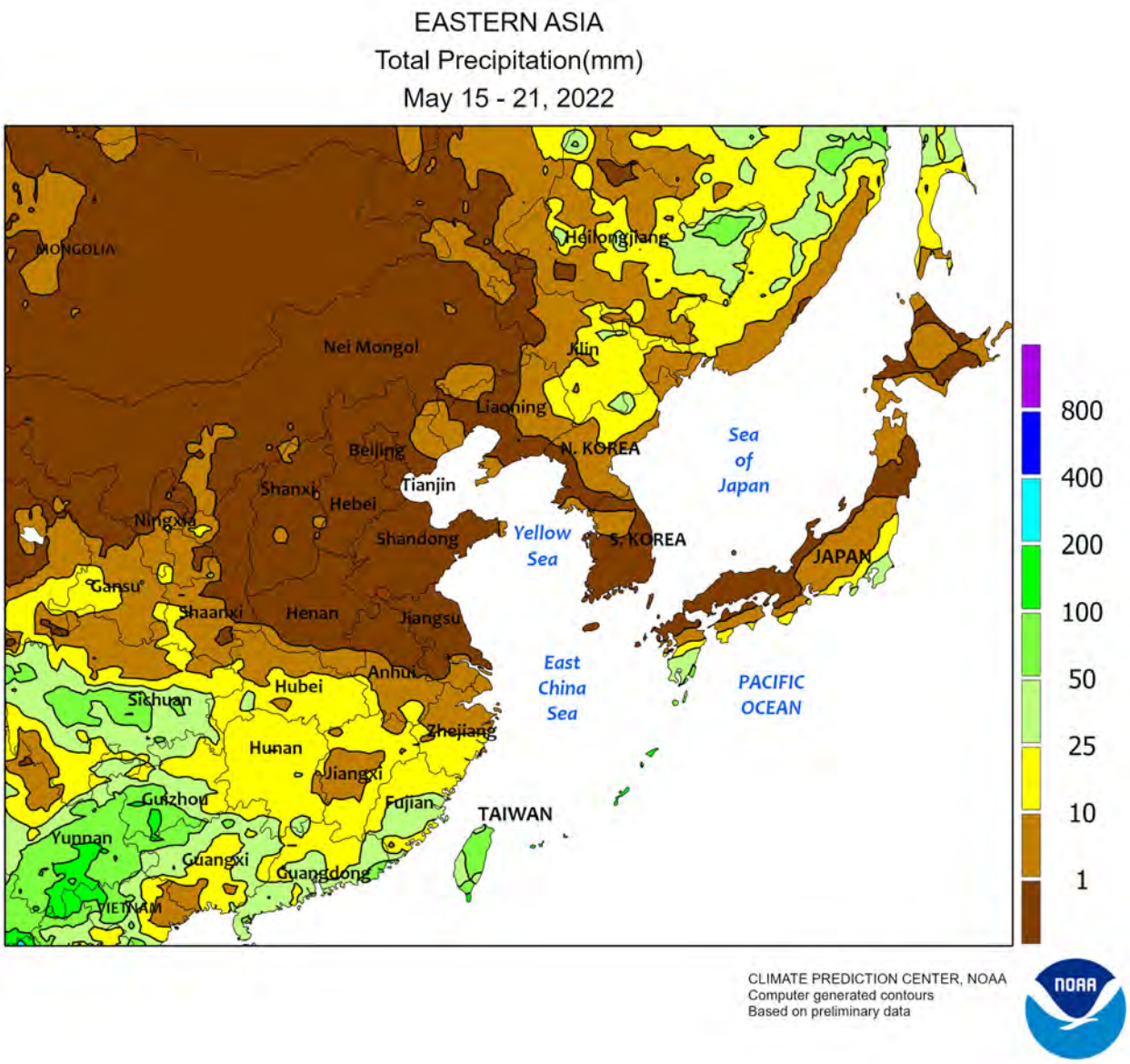

EASTERN ASIA

An influx of tropical moisture across southern China spawned showers of varying amounts (10-100 mm or more), with the highest totals (over 100 mm) localized in southwestern sections along the monsoon front. The wet weather benefited reproductive early-crop rice and establishment of newly planted summer crops. In contrast to southerly showers, sunny, warm weather (daytime temperatures in the 30s degrees C) in the Yangtze Valley extending onto the North China Plain supported maturation of winter crops (rapeseed and wheat). Elsewhere, light to locally moderate rainfall (1-20 mm) in the northeast aided germination and emergence of corn and soybeans. Meanwhile, unseasonably dry weather continued on the Korean Peninsula, limiting moisture supplies for recently sown rice and summer crops.

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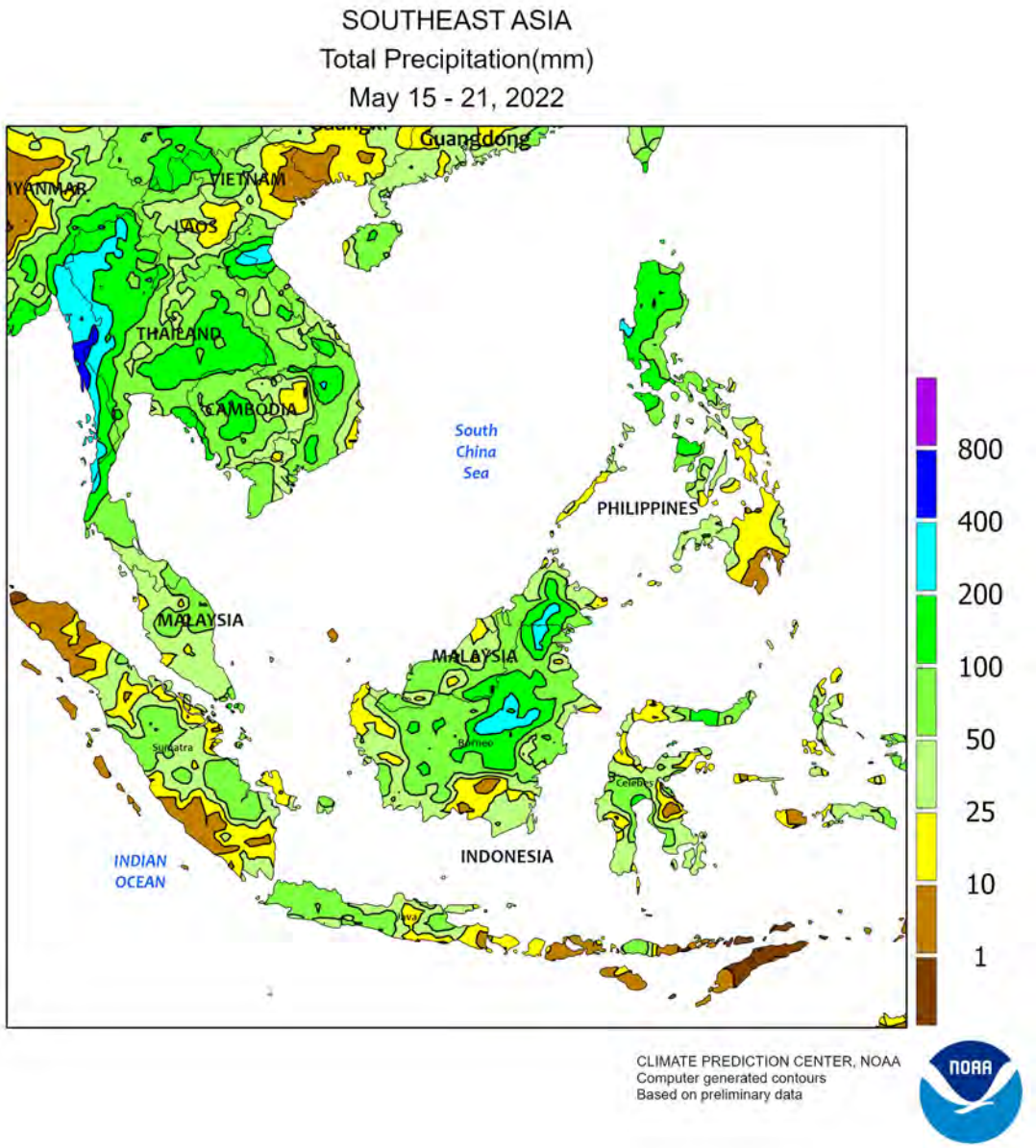

SOUTHEAST ASIA

Heavy monsoon showers continued across Thailand and the surrounding areas, further encouraging widespread rice and other summer crop sowing. Most areas recorded over 50 mm of rain with some locales topping 150 mm, improving soil moisture and irrigation supplies. For portions of Thailand, rainfall totals for the first three weeks of May have been the highest in over 10 years. Meanwhile, to the east, monsoon showers moved into the northern Philippines, bolstering moisture supplies for the main cropping season. Elsewhere, continued wet weather (25-100 mm or more) in Malaysia and neighboring sections of Indonesia benefited oil palm.

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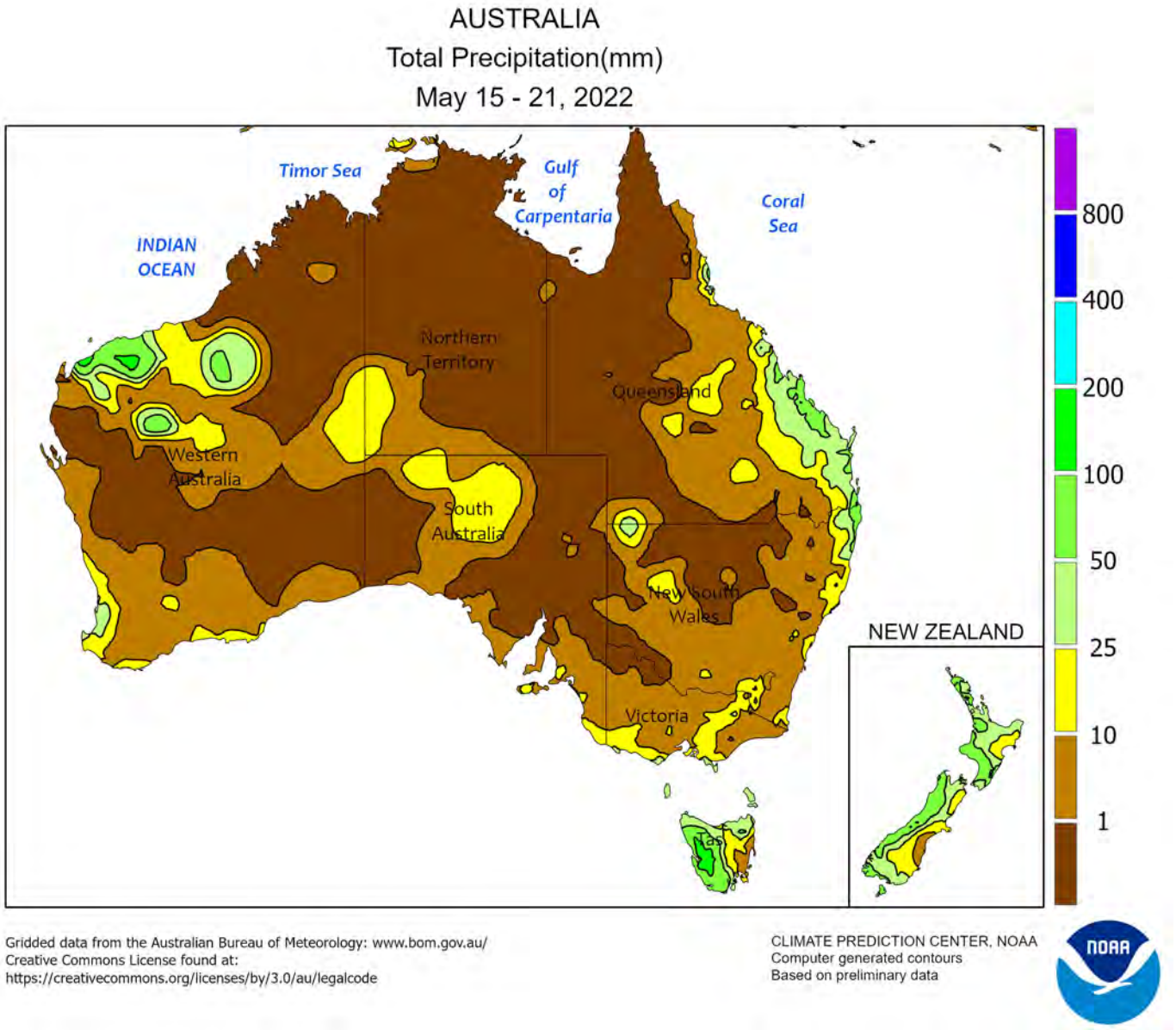

AUSTRALIA

Intermittent sun and showers (1-10 mm, locally more) continued to benefit winter grains and oilseeds while allowing fieldwork to progress. In southern Queensland and New South Wales, moisture supplies remained abundant for germinating to emerging winter crops, while several consecutive days of mostly dry weather allowed cotton and sorghum harvesting to resume in the wake of last week's wet weather. Similarly, in Victoria and Western Australia, passing showers maintained adequate moisture supplies for early wheat, barley, and canola development, while periods of dry weather likely spurred additional sowing. Although light showers fell across South Australia, more rain would be welcome to sustain early winter grain and oilseed development. Temperatures averaged 1 to 2ºC below normal in South Australia and Victoria, near normal in Western Australia and most of New South Wales, and 1 to 4ºC above normal in northeastern New South Wales and southern Queensland.

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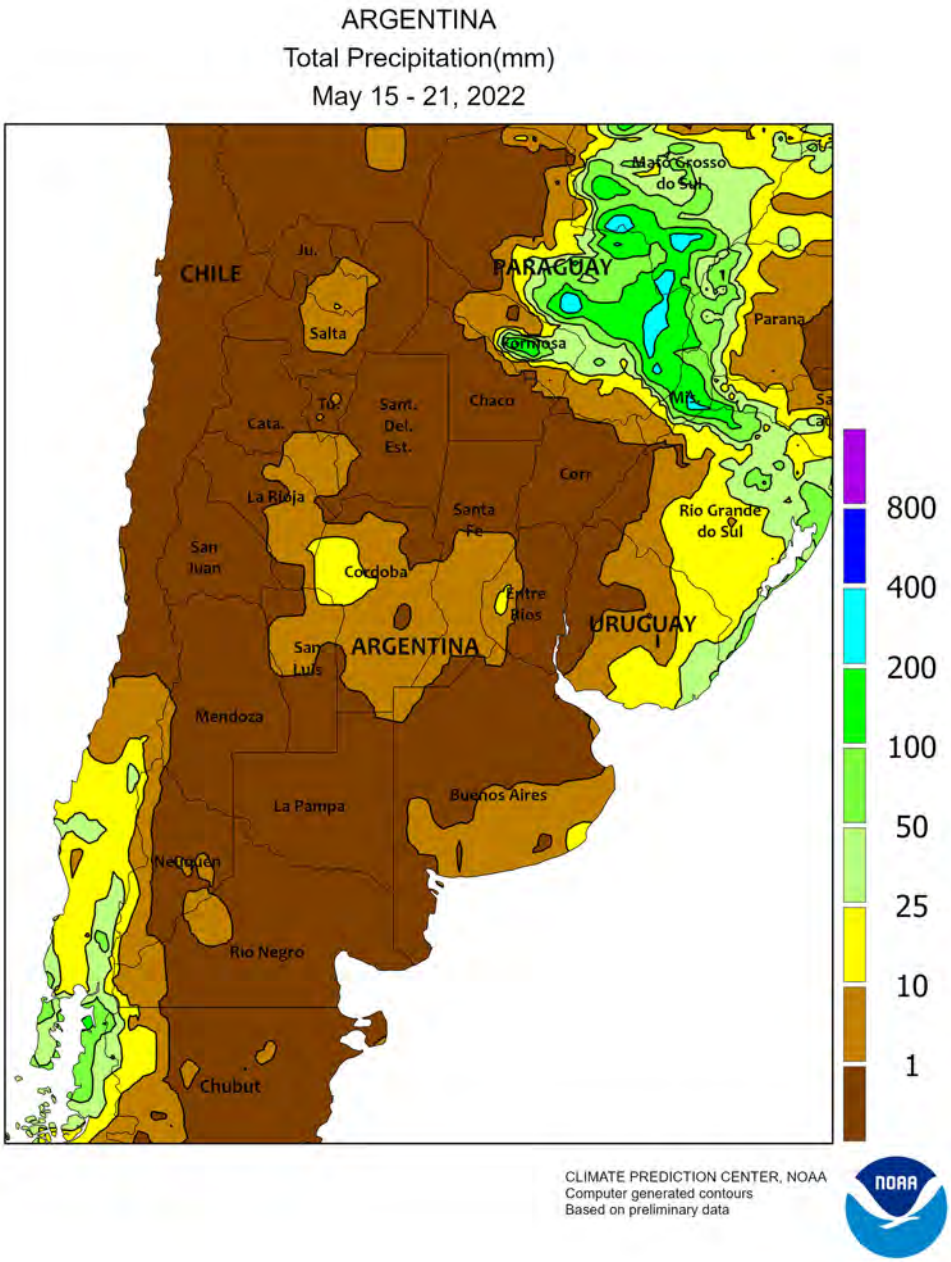

ARGENTINA

Drier-than-normal weather supported seasonal fieldwork, although below-normal temperatures limited growth of early-sown winter grains. Large sections of the country recorded no rain, with just a few isolated locations recording more than 10 mm. The dryness extended eastward into central Uruguay. Weekly average temperatures ranged from 2°C below normal in La Pampa and Buenos Aires to as much as 6°C below normal in and around Chaco. Freezes (nighttime lows ranging from -6 to 0°C) were recorded throughout many southern and western farming areas, helping to dry and defoliate mature summer crops but slowing early winter grain growth. According to the government of Argentina, corn and soybeans were 44 and 84 percent harvested, respectively, as of May 19, while cotton was 44 percent harvested. Additionally, fieldwork has begun for the upcoming winter grain season, though no national total was available.

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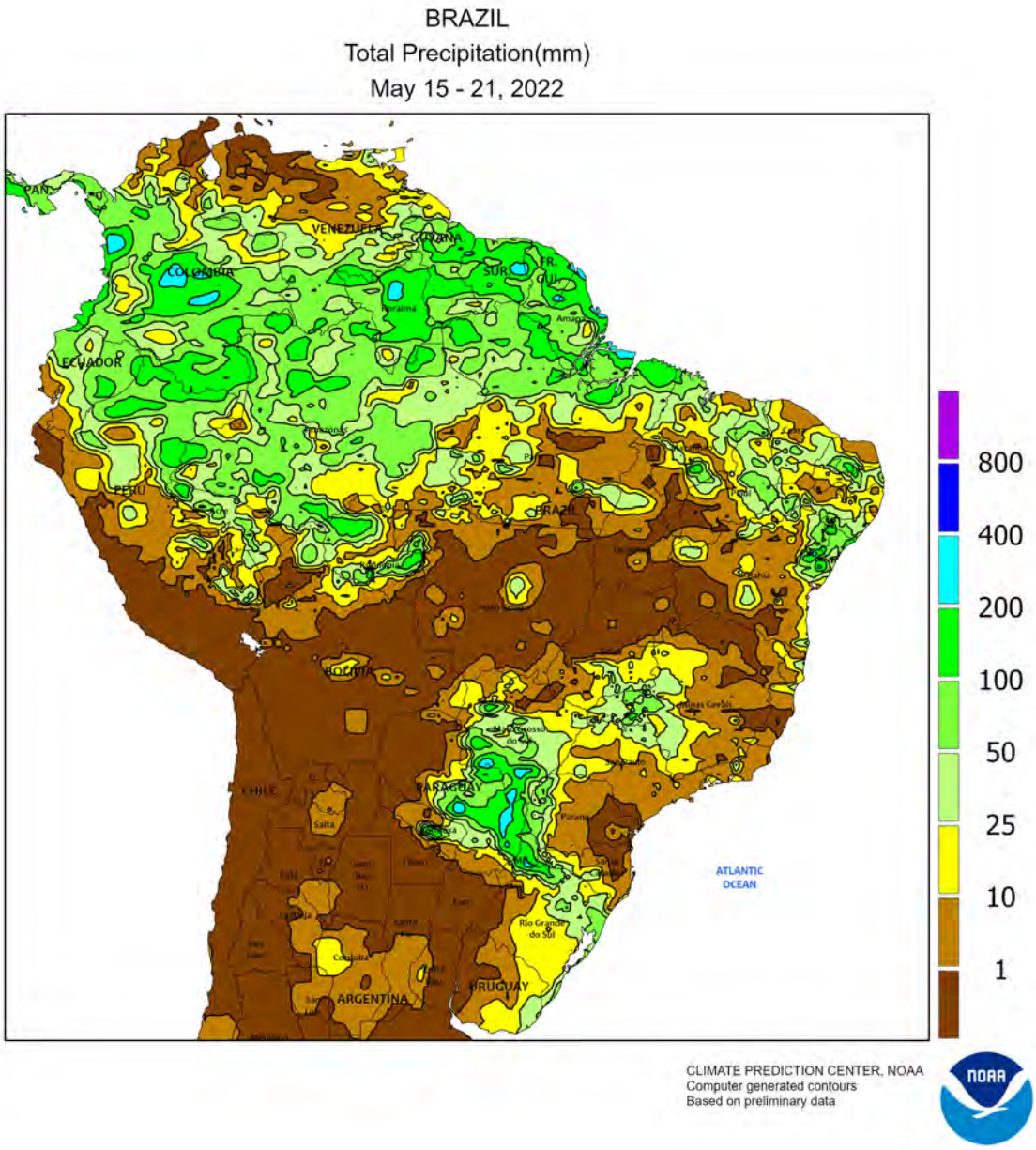

BRAZIL

Dry weather continued to dominate nearly all major farming areas. Corn and cotton areas in central and northeastern interior production areas (Mato Grosso eastward to Bahia) recorded a few isolated showers (rainfall totaling more than 25 mm), otherwise near complete dryness prevailed. Unlike recent weeks, however, below-normal temperatures accompanied the dryness, easing crop stress caused by recent heat. Mostly dry weather also prevailed in southern Brazil, although pockets of light to moderate rain (10-50 mm) were reported over western Minas Gerais and from eastern Paraguay to northeastern Rio Grande do Sul. Weekly temperatures averaged 4°C or more below normal over a broad area stretching from Mato Grosso to Rio Grande do Sul, with frost (nighttime lows from -2 to 2°C) possible in traditionally cooler locations centered over southwestern Paraná. Similar readings occurred in southern Minas Gerais, necessitating inspection of coffee for possible damage. According to the government of Paraná, over 90 percent of second-crop corn had reached reproduction as of May 16; meanwhile, wheat was 43 percent planted. In Rio Grande do Sul, corn and soybeans were 89 and 90 percent harvested, respectively, as of May 19.

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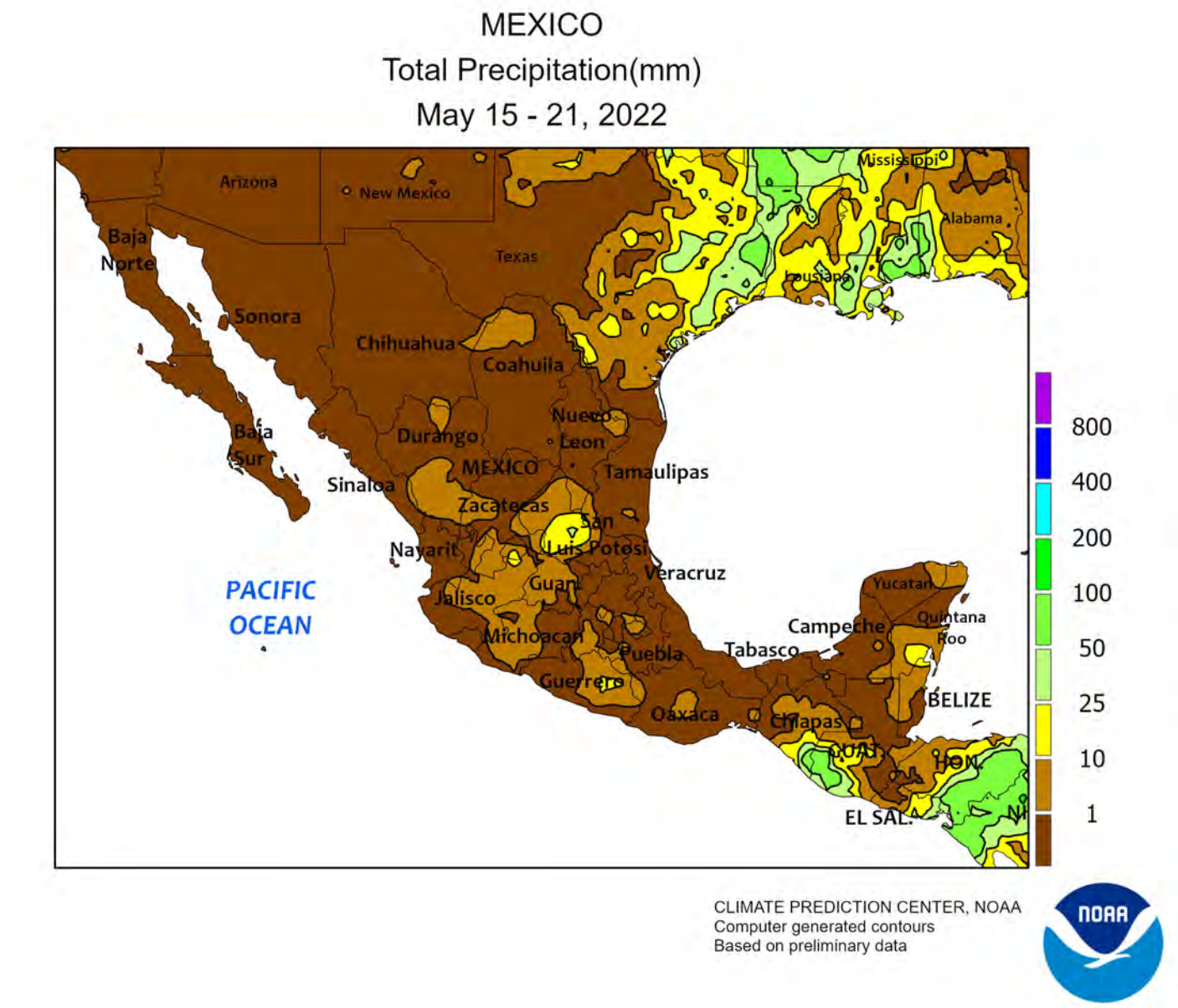

MEXICO

For a second week, unseasonable warmth and dryness dominated much the country, limiting moisture for rain-fed summer crops and maintaining high water requirements of livestock. Many areas were completely dry, including farmlands in the eastern corn belt (in and around Puebla) and along the Gulf Coast (Veracruz and Tabasco) where some rain is expected this time of year. Meanwhile, widely scattered light showers (mostly below 10 mm) covered western sections of the southern plateau (Jalisco, Michoacán, and Guanajuato), but additional rain will be needed as fieldwork becomes more widespread. Weekly temperatures averaging 1 to 3°C above normal (daytime highs ranging from the lower 30s to lower 40s degrees C) exacerbated the impacts of dry soils on emerging summer crops. Farther north, heat and dryness (highs locally in excess of 40°C) sped maturation of winter grains, including rain-fed sorghum in the northeast (Tamaulipas and environs).

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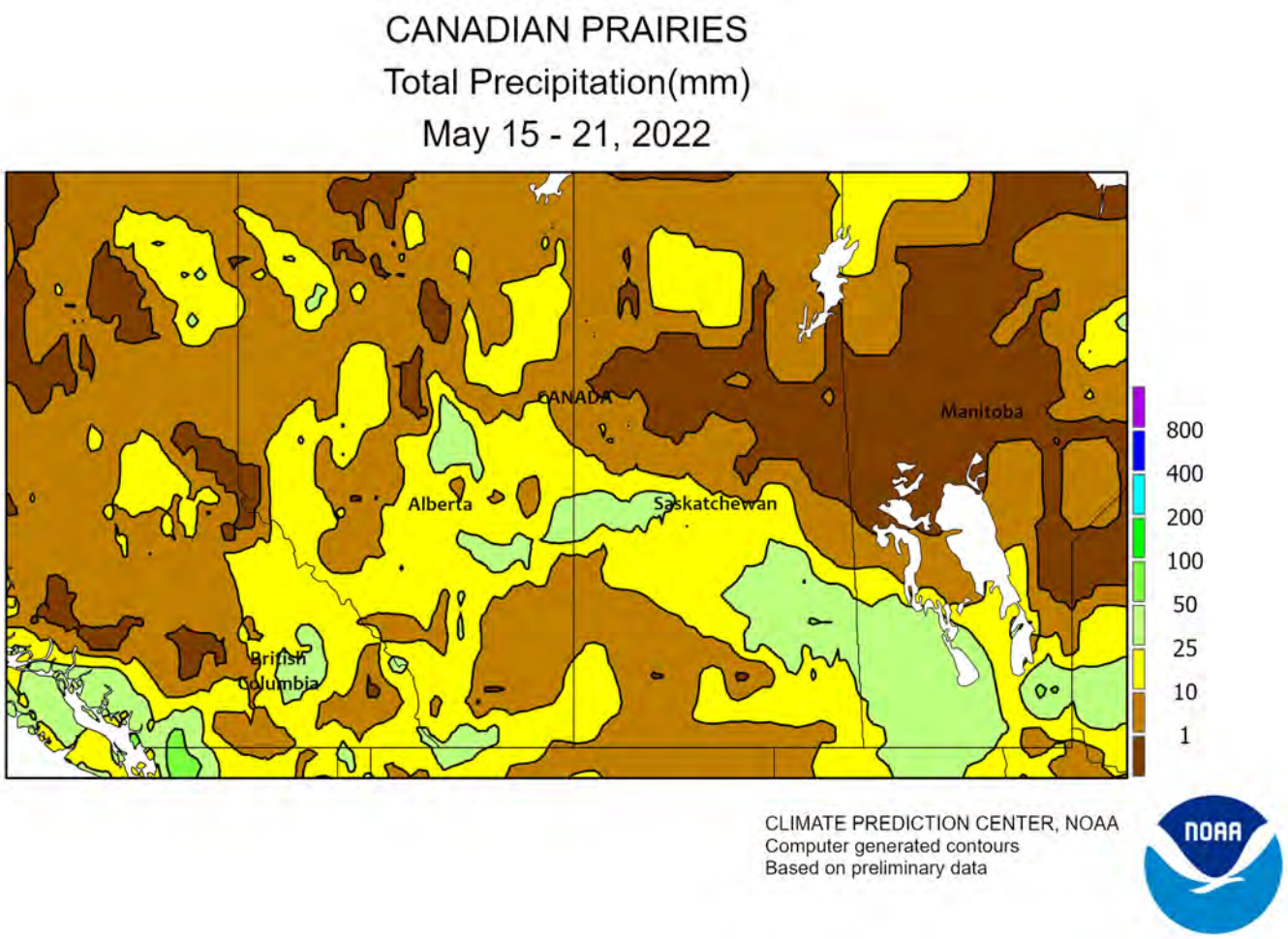

CANADIAN PRAIRIES

Scattered light showers provided timely moisture for spring crop germination in previously dry western farming areas. Rainfall totaled 5 to 25 mm – locally higher – in the agricultural districts of Alberta and western Saskatchewan. Crops in Alberta were 49 percent planted as of May 17, 6 points behind average. Heavier rain (10-60 mm) sustained problems with excessive wetness in Manitoba and Saskatchewan's eastern farming areas. According to the government of Manitoba, planting was 4 percent complete as of May 17, compared with the 5-year average of 50 percent. In Saskatchewan, crops were 33 percent planted on May 16, compared to 53 percent on average. Weekly temperatures averaged 2 to 4°C below normal across the region, with lowest nighttime temperatures dropping below 0°C at most locations.

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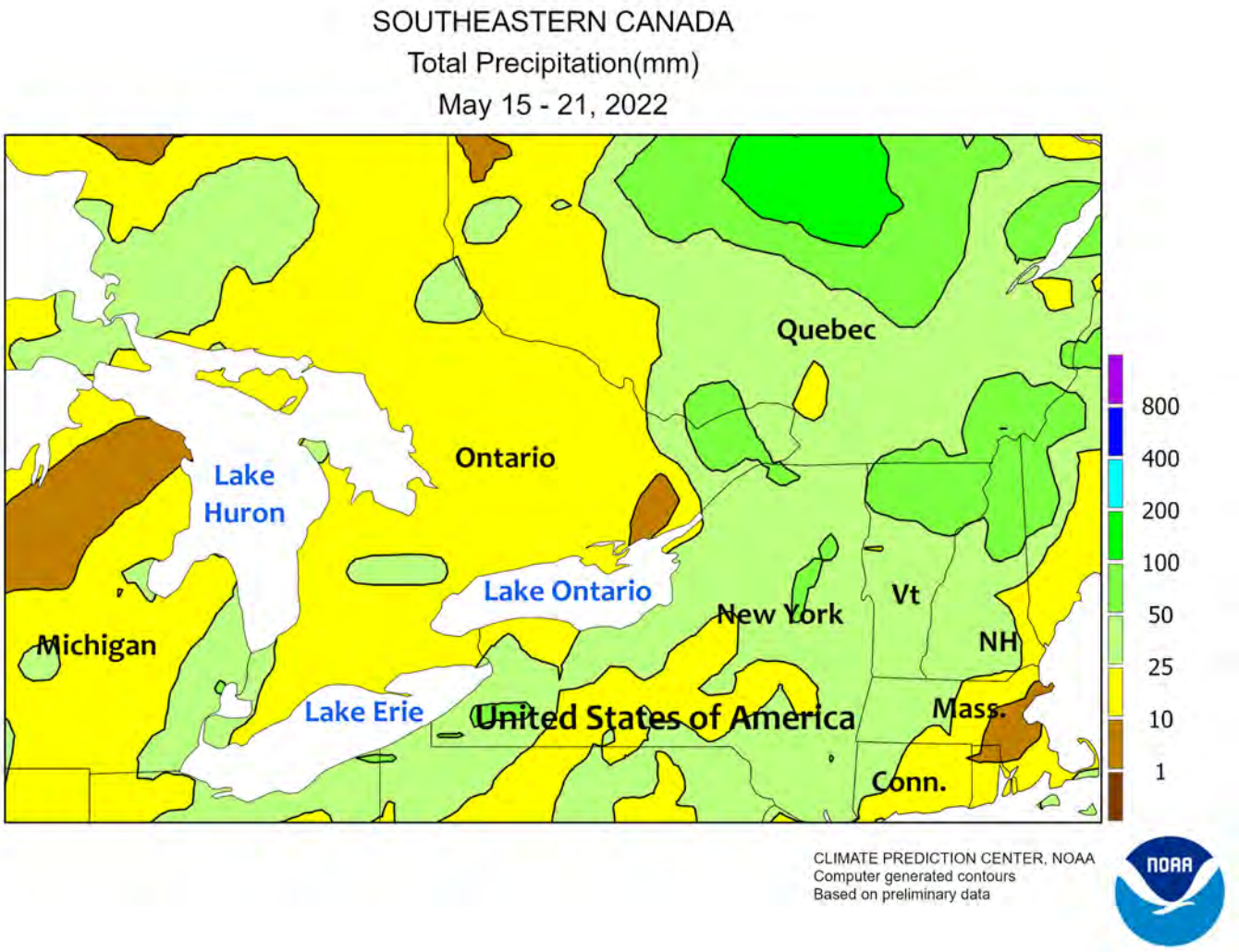

SOUTHEASTERN CANADA

Warm, showery weather dominated the region, maintaining adequate to locally excessive levels of moisture for crop growth and fieldwork. Rainfall totaled 10 to 25 mm over most of Ontario, with higher amounts (25-100 mm) in eastern-most Ontario and sections of Quebec. Warm weather (weekly temperatures averaging 1-2°C above normal) accompanied the wetness, with daytime highs reaching the upper 20s and lower 30s (degrees C) and freezes confined to northern-most production areas of Ontario and Quebec. According to reports emanating from Ontario, corn and soybean planting advanced rapidly due to excellent weather conditions during the period ending May 18, although delays lingered in some water-logged fields.

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USDA United States Department of Agriculture

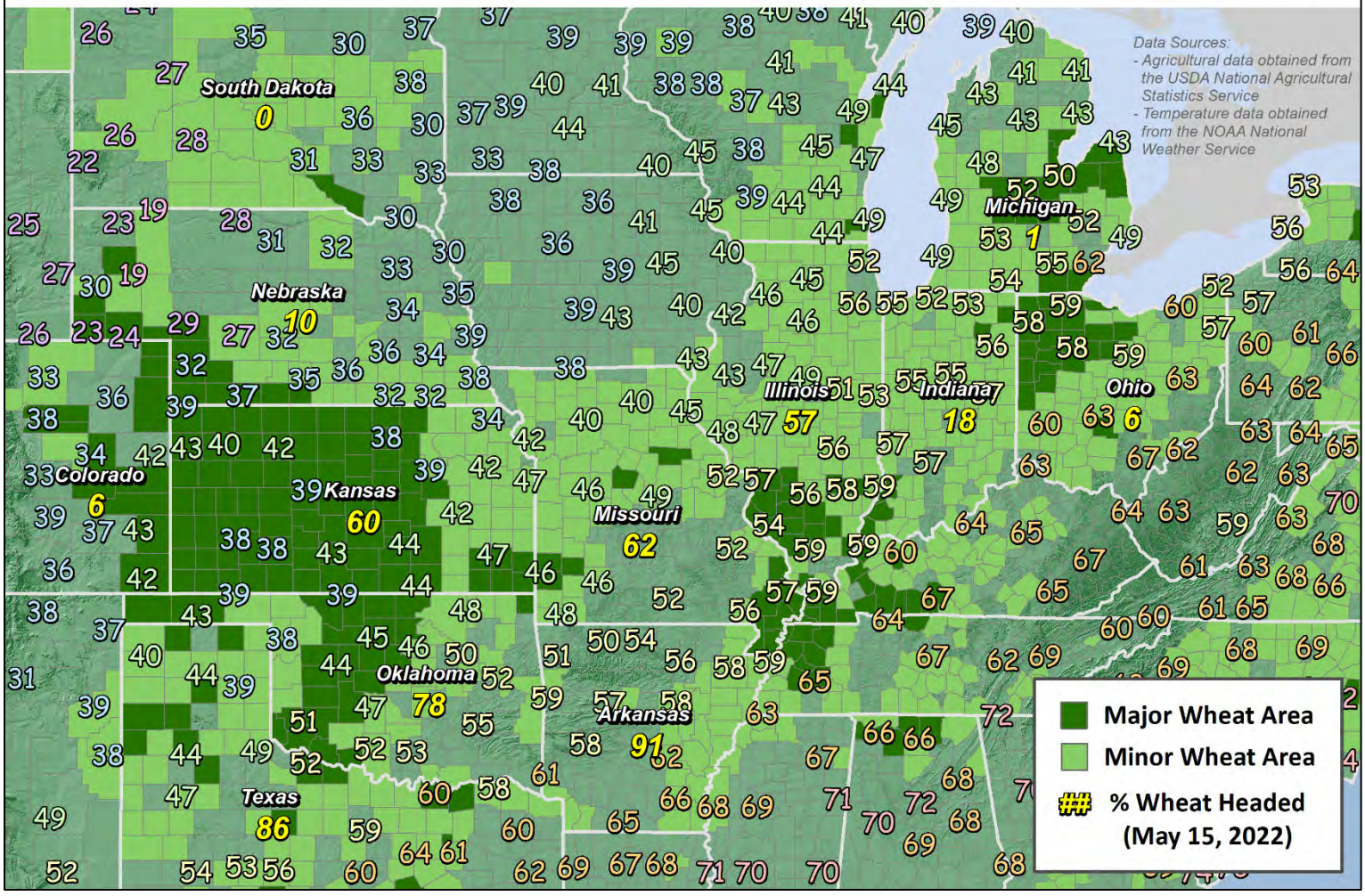
This product was prepared by the USDA Office of the Chief Economist (OCE) World Agricultural Outlook Board (WAOB)

Late-Season Freeze in Some Wheat Areas

Minimum Temperatures (°F)

Sunday - May 22, 2022

(Updated - May 23, 2022)



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