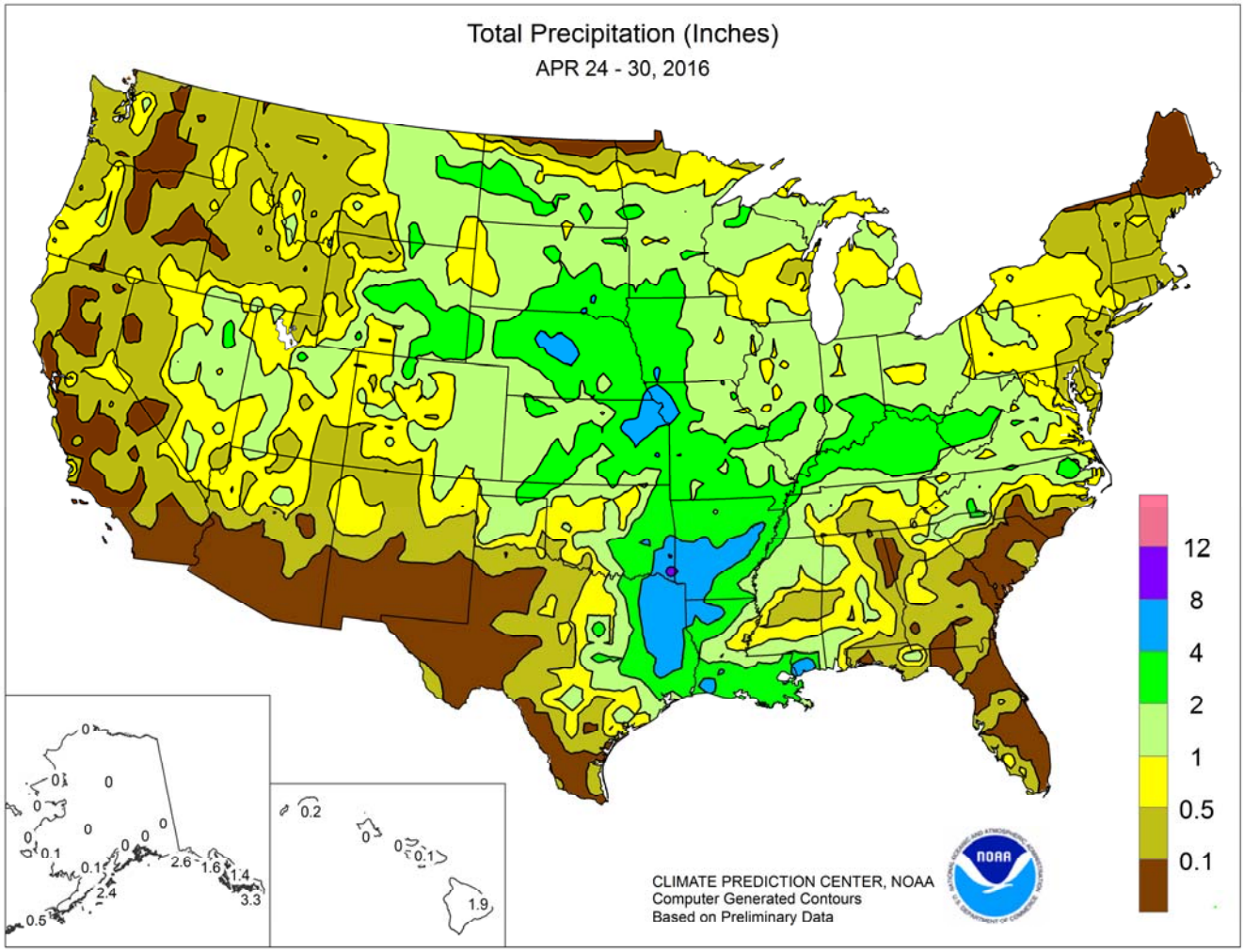
Volume 103, No. 18 http://www.usda.gov/oce/weather May 3, 2016

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

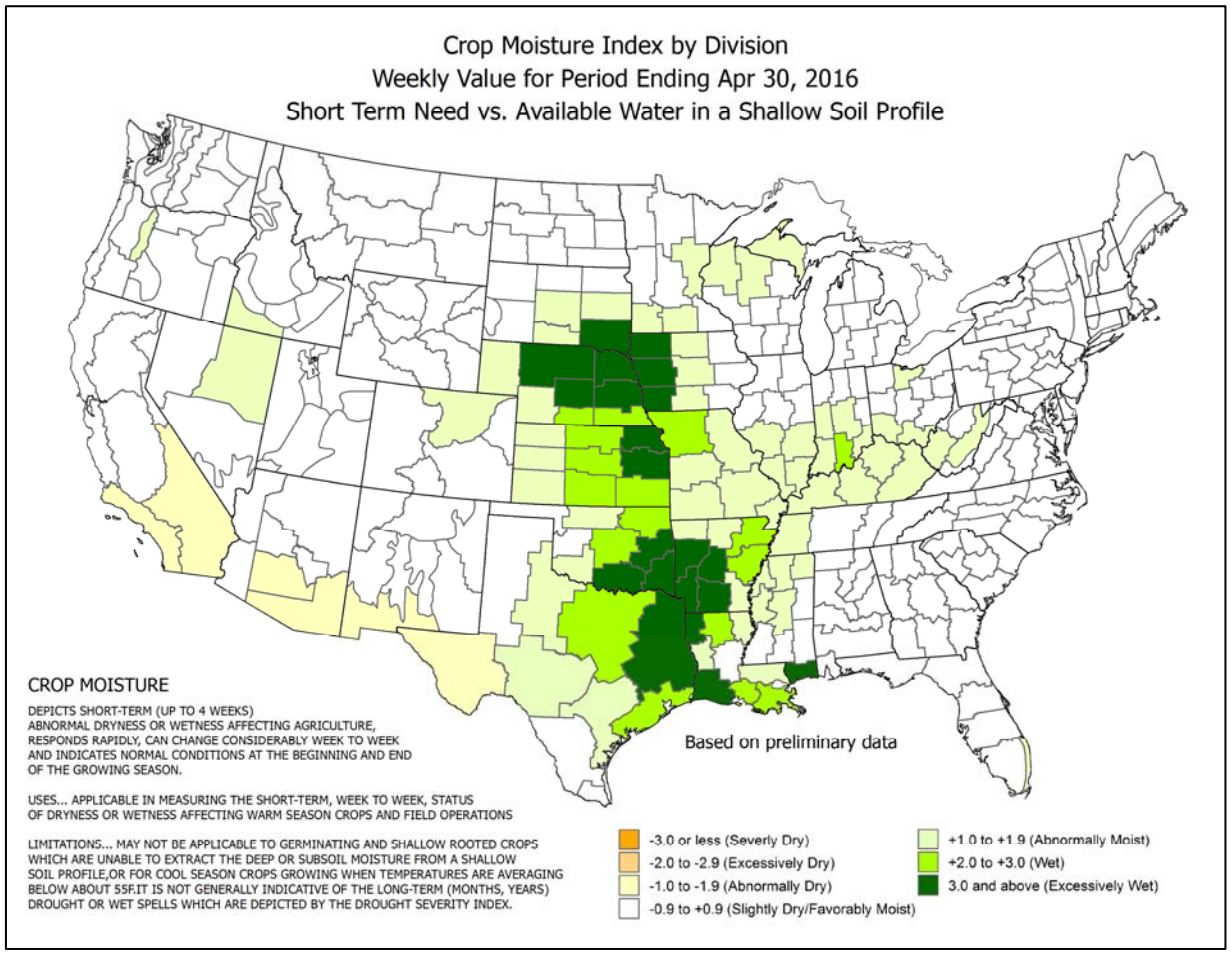
April 24 – 30, 2016

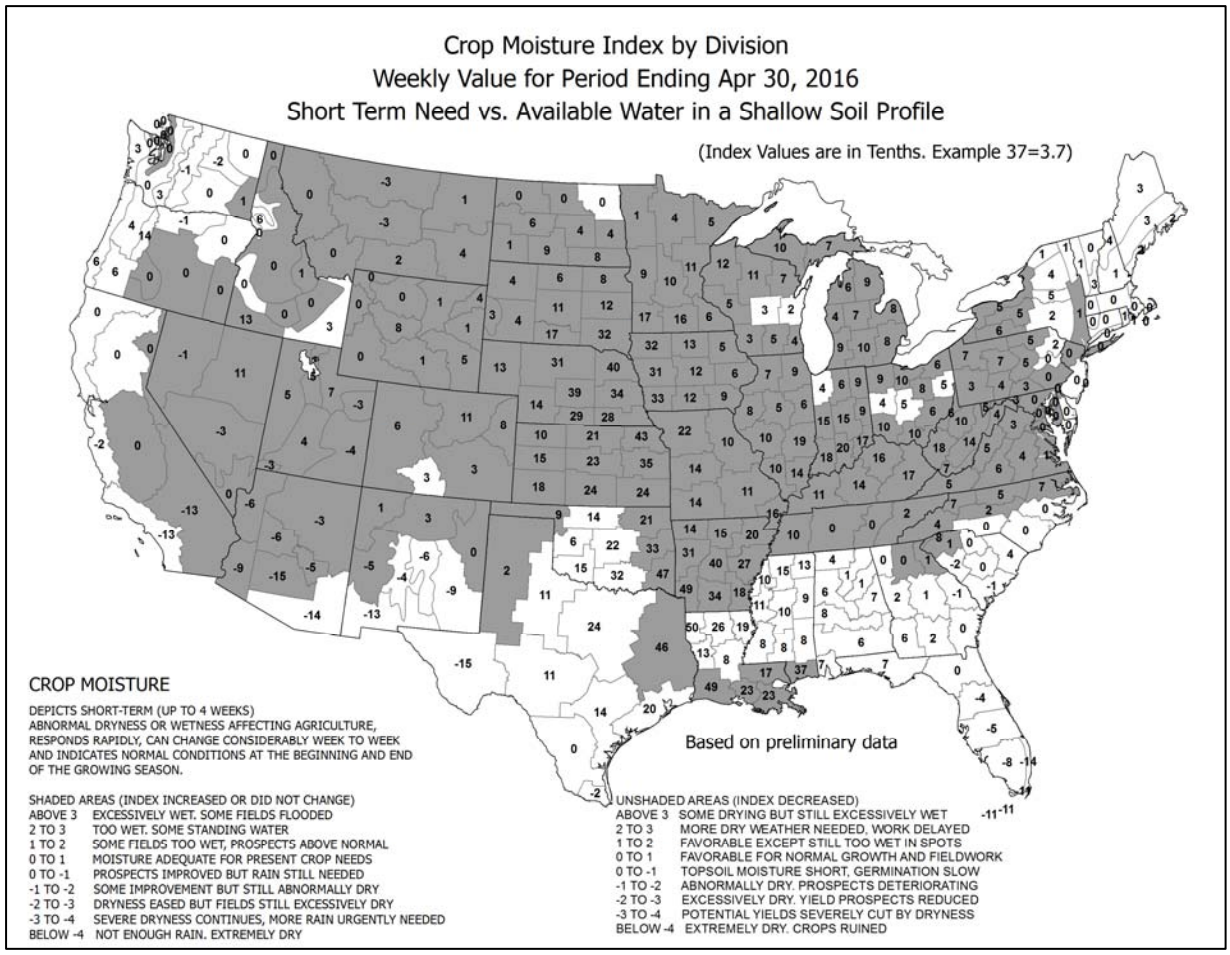
Highlights provided by USDA/WAOB

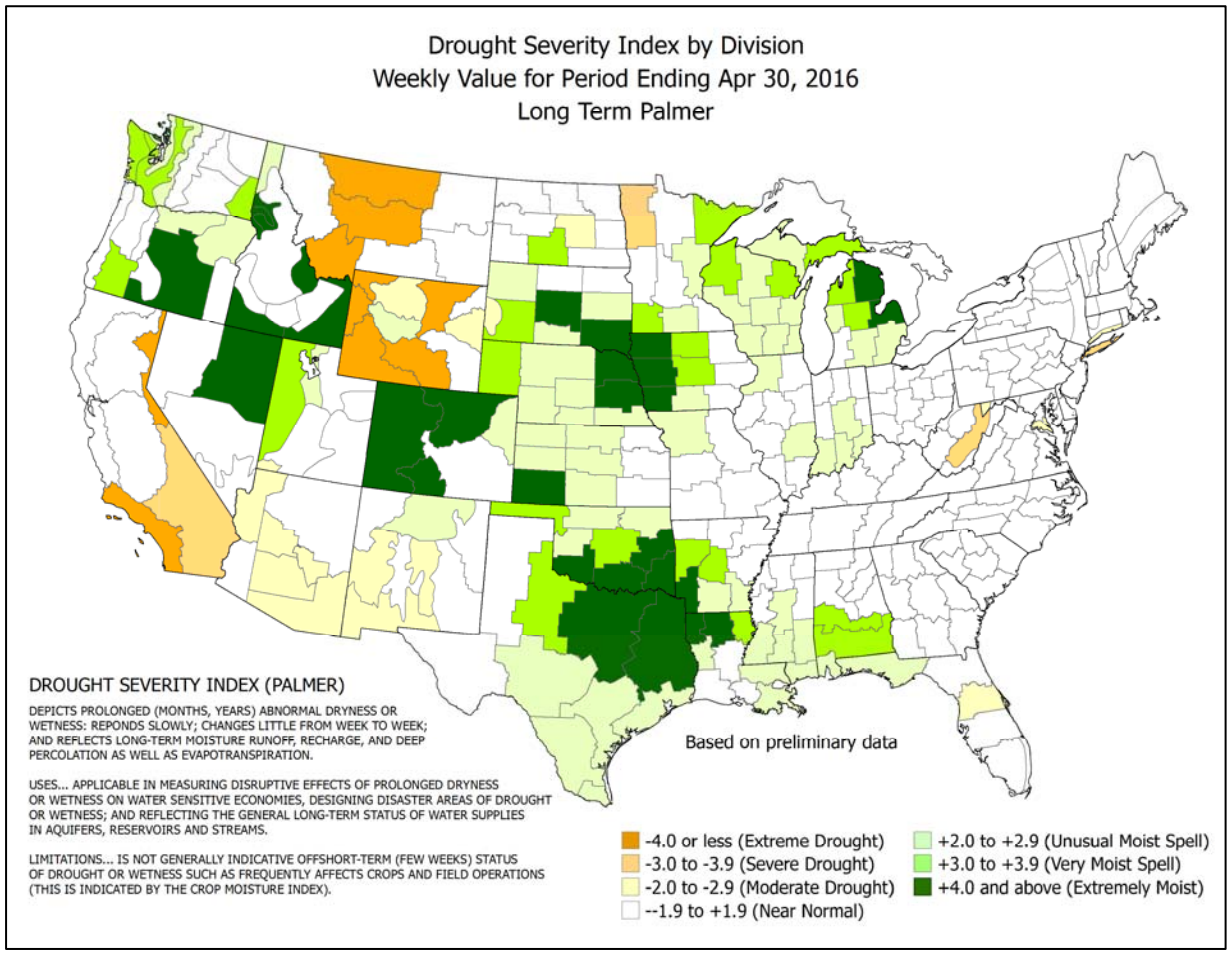
Several storm systems traversed the U.S., leading to a showery, unsettled weather regime across most of the country. An atmospheric blocking pattern, featuring high pressure over **Canada**, kept the storms moving slowly but steadily on a west-to-east path. Some of the heaviest rain, 2 to 4 inches or more, fell from the **eastern Plains into the mid-South and the southern and western Corn Belt**, erasing concerns about short-term dryness but stalling fieldwork and causing local flooding. Locally severe storms, featuring wind, hail, and isolated tornadoes,

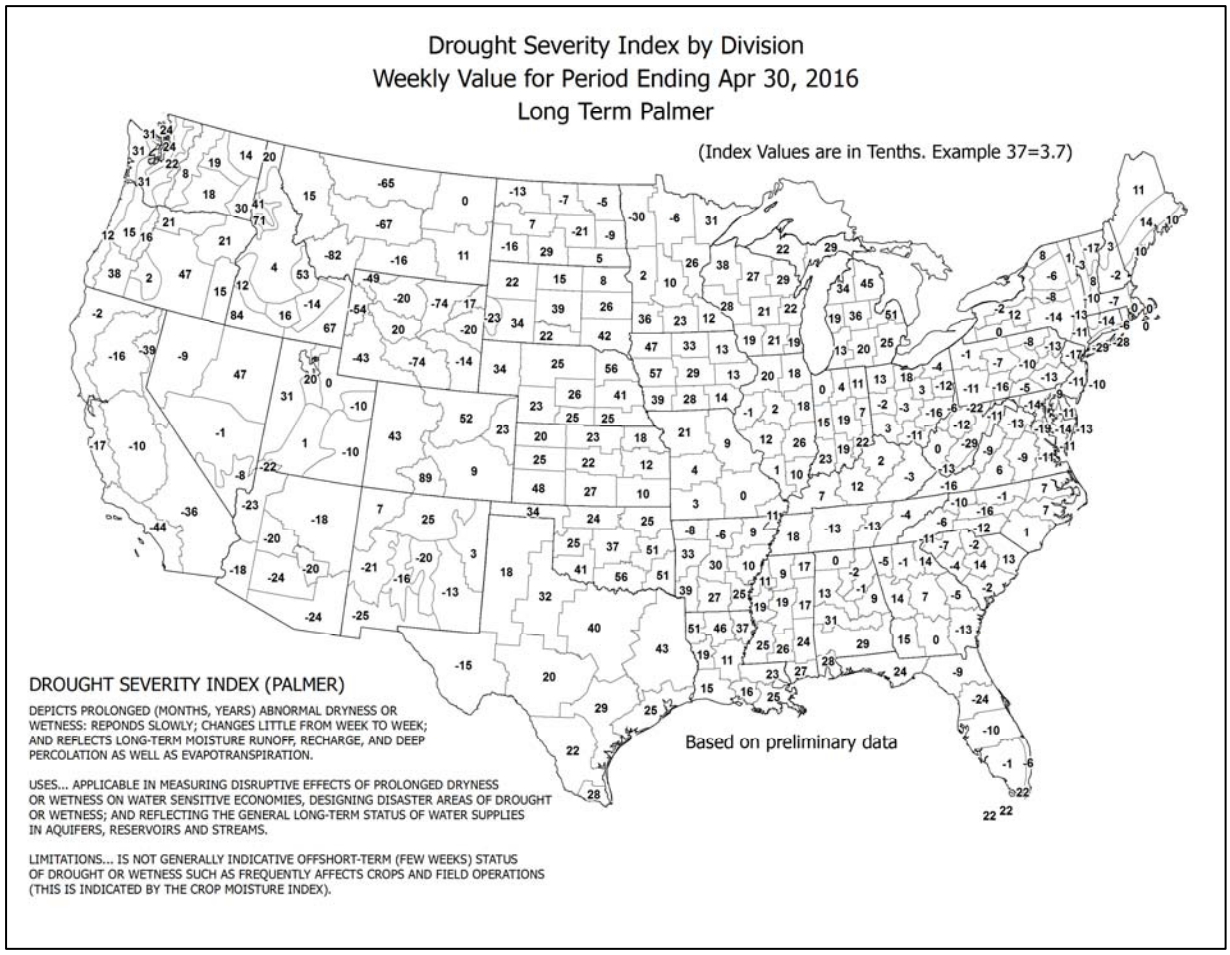
(Continued on page 7)

Contents


Crop Moisture Index by Division
Weekly Value for Period Ending Apr 30, 2016
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)


Crop Moisture Index by Division
Weekly Value for Period Ending Apr 30, 2016
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.
Based on preliminary data
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
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


Drought Severity Index by Division
Weekly Value for Period Ending Apr 30, 2016
Long Term Palmer
DROUGHT SEVERITY INDEX (PALMER)
DEPICTS PROLONGED (MONTHS, YEARS) ABNORMAL DRYNESS OR WETNESS: REPONDS 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 OFFSHORT-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)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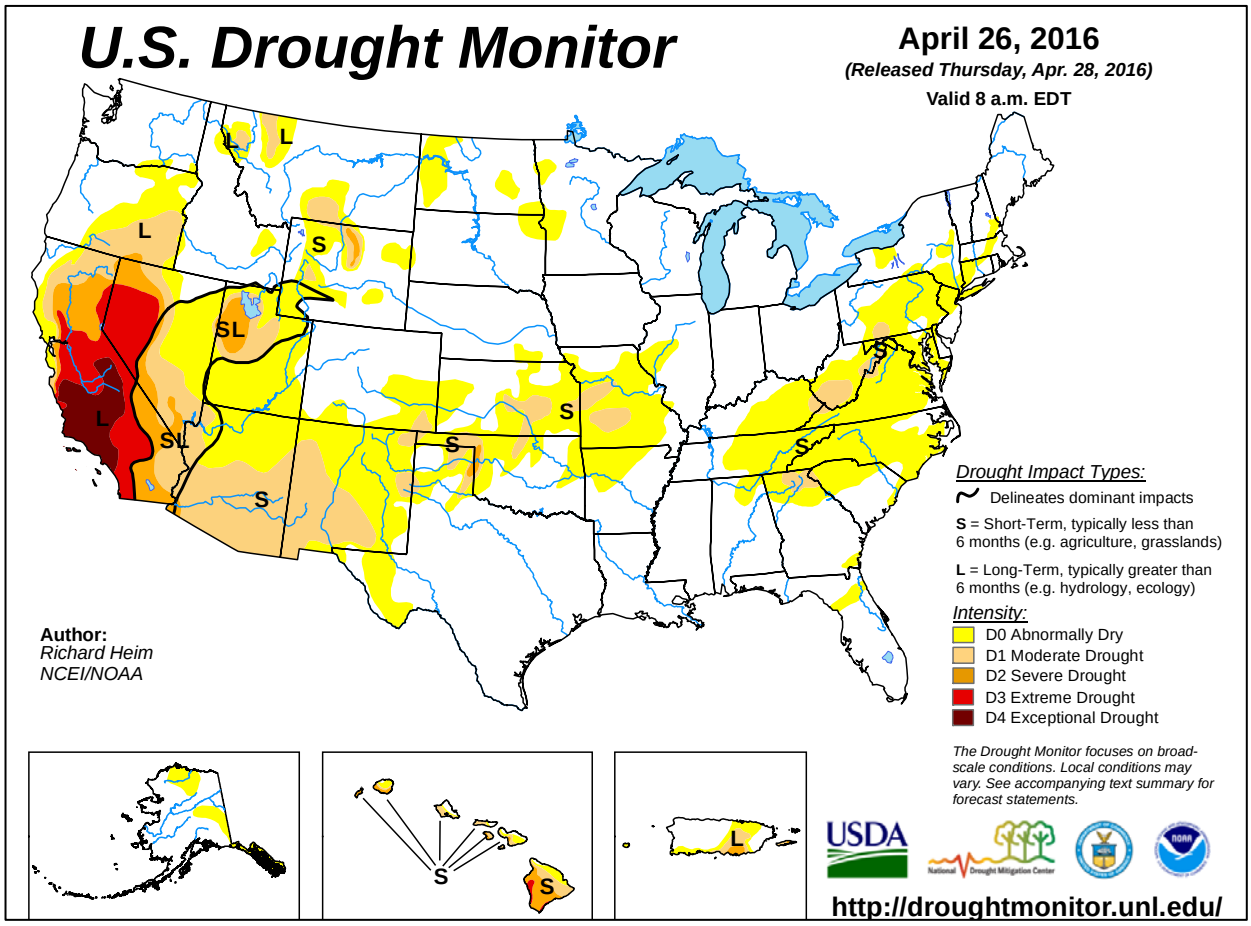
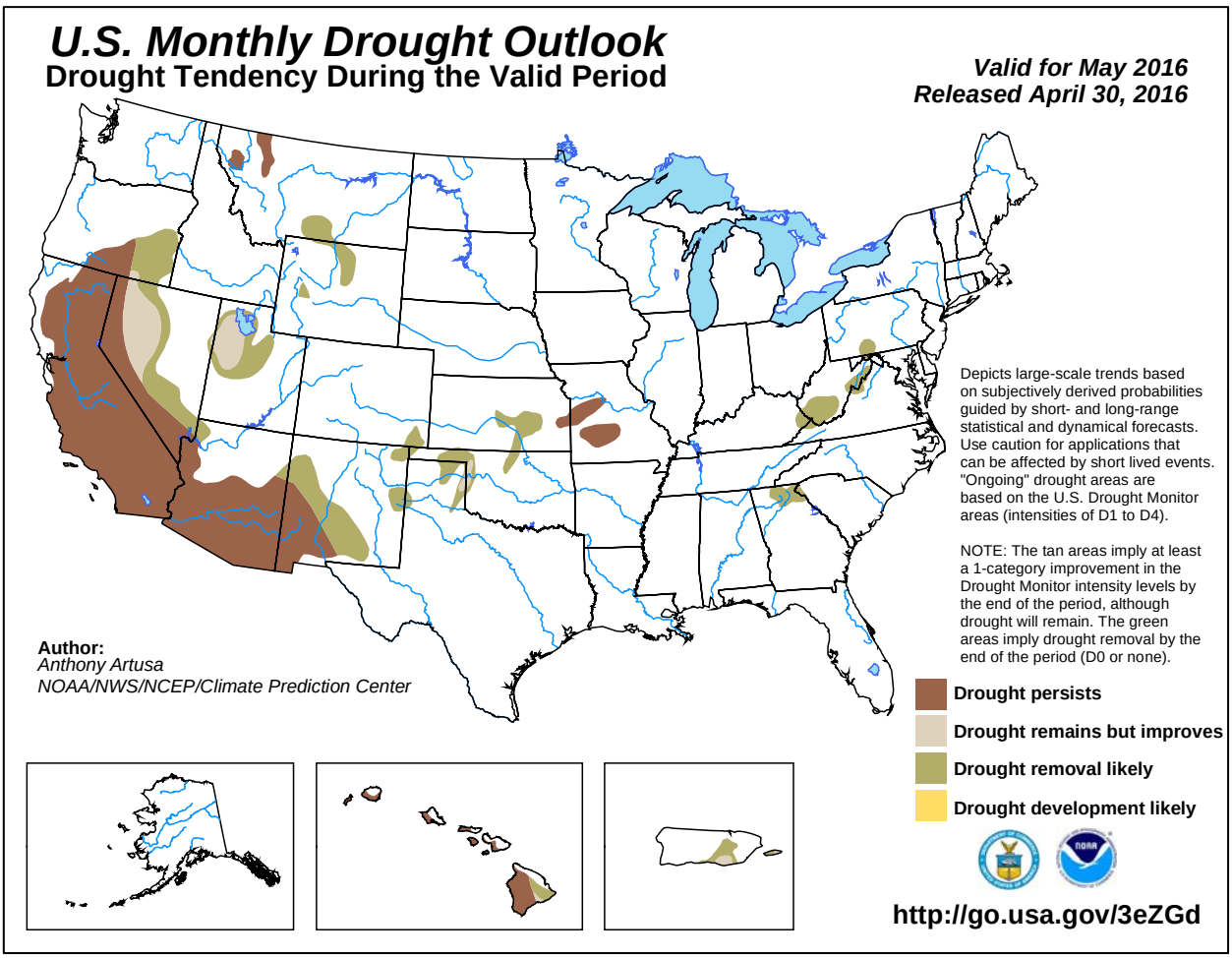
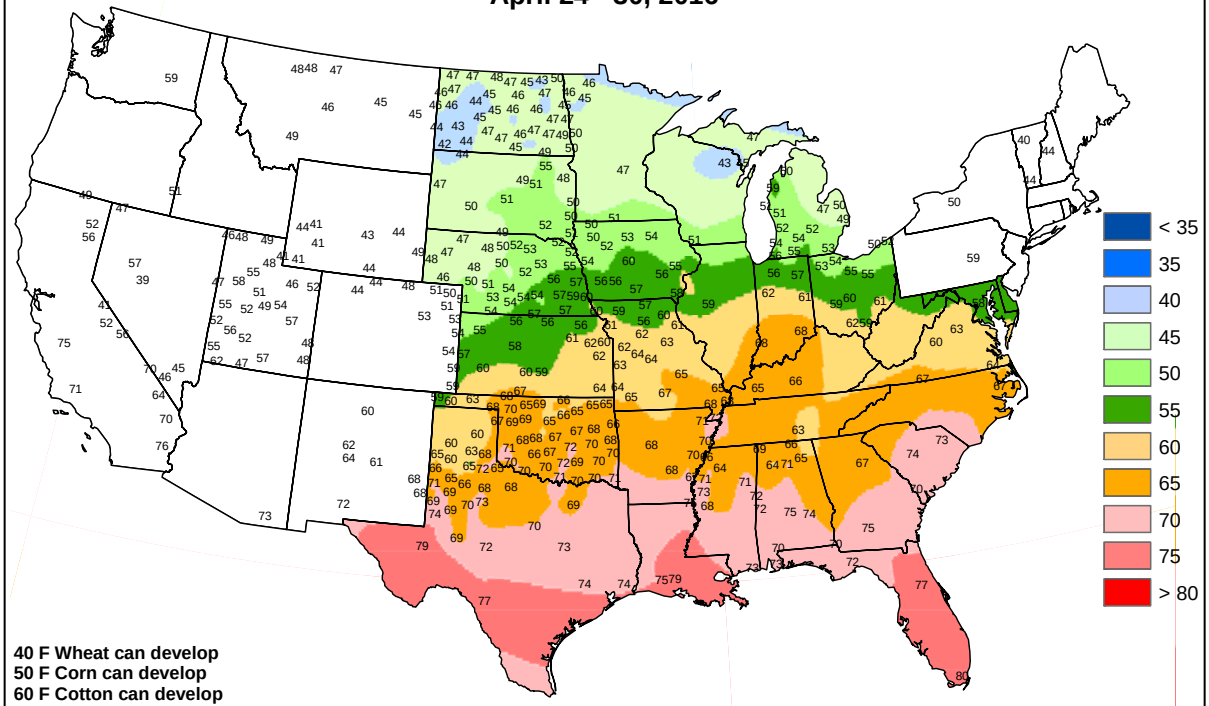
Based on preliminary data


U.S. Drought Monitor
April 26, 2016
(Released Thursday, Apr. 28, 2016)
Valid 8 a.m. EDT
Author:
Richard Heim
NCEI/NOAA
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:
D0 Abnormally Dry
D1 Moderate Drought
D2 Severe Drought
D3 Extreme Drought
D4 Exceptional Drought
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.
http://droughtmonitor.unl.edu/


U.S. Monthly Drought Outlook
Drought Tendency During the Valid Period
Valid for May 2016
Released April 30, 2016
Author:
Anthony Artusa
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/3eZGd

Average Soil Temperature (Deg. F, 4" Bare)

April 24 - 30, 2016



40 F Wheat can develop
50 F Corn can develop
60 F Cotton can develop

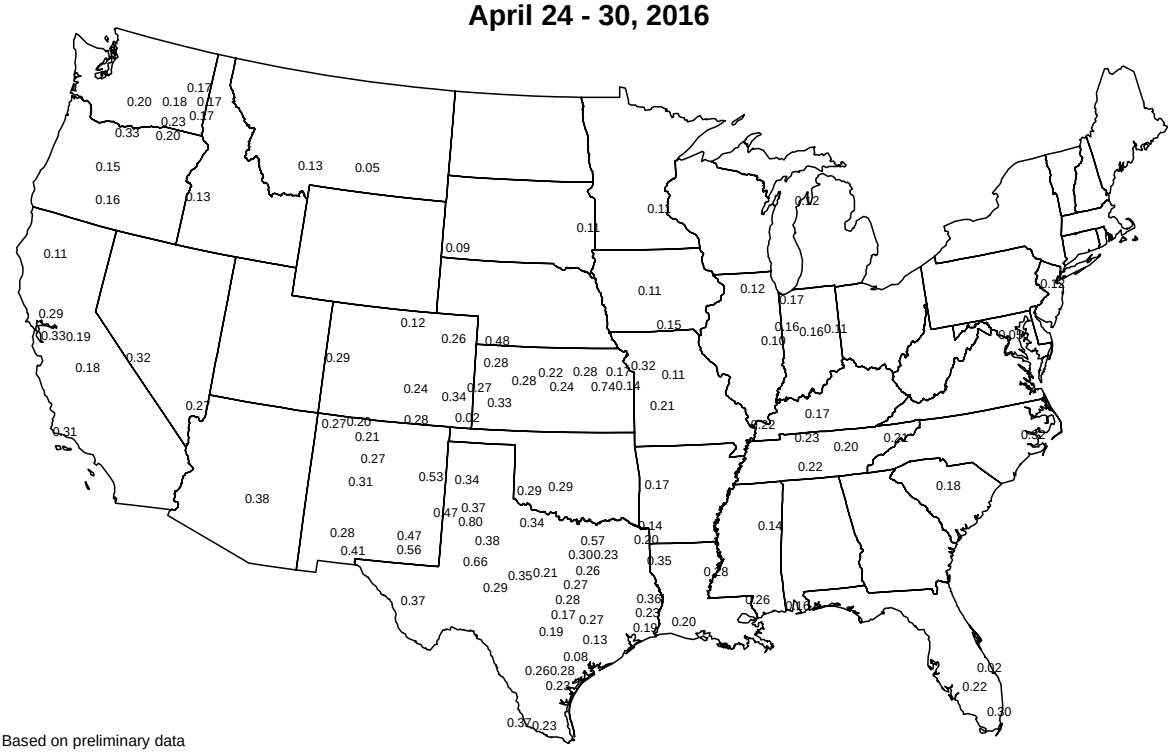
Based on preliminary data.

Supplemental data provided by Alabama A&M University, Bureau of Reclamation - Pacific Northwest Region AgriMet Program, High Plains Regional Climate Center, Illinois State Water Survey, Iowa State University, Louisiana Agriclimatic Information System, Mississippi State Univeristy, Oklahoma Mesonet, Purdue University, University of Missouri and USDA/NRCS Soil Climate Analysis Network.

United States Department of Agriculture

Average Pan Evaporation (inches/day)

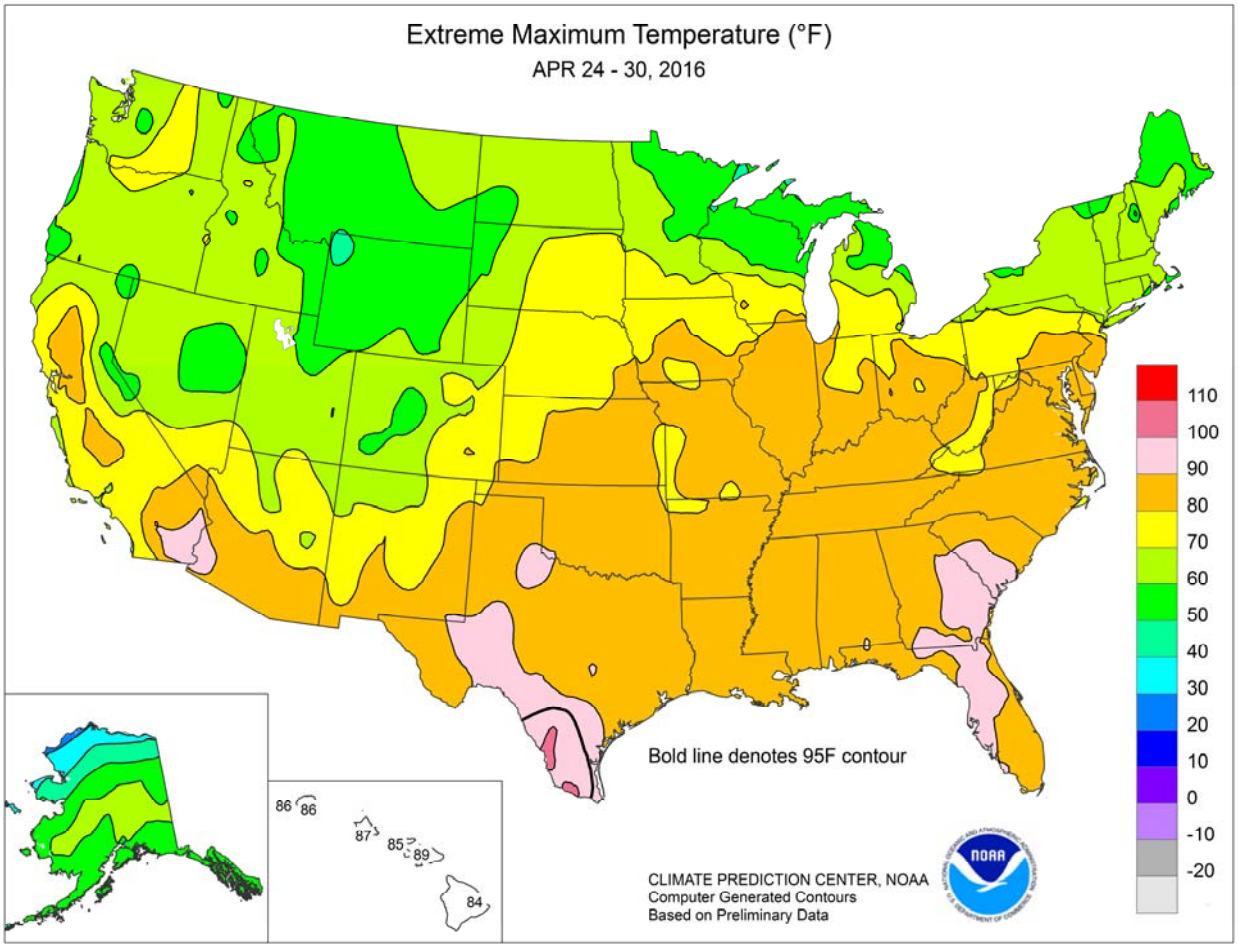
April 24 - 30, 2016

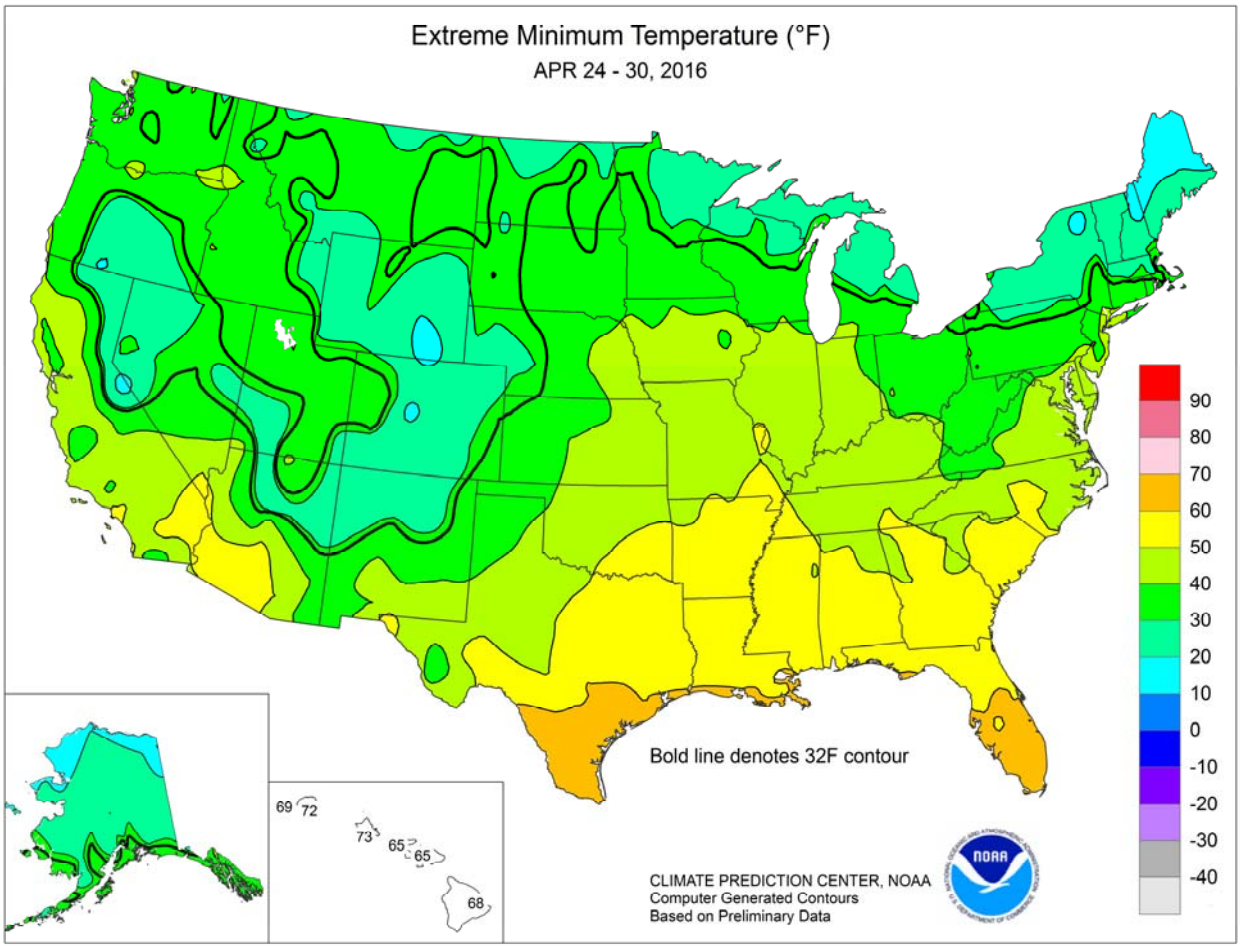


Based on preliminary data

USDA Agricultural Weather Assessments

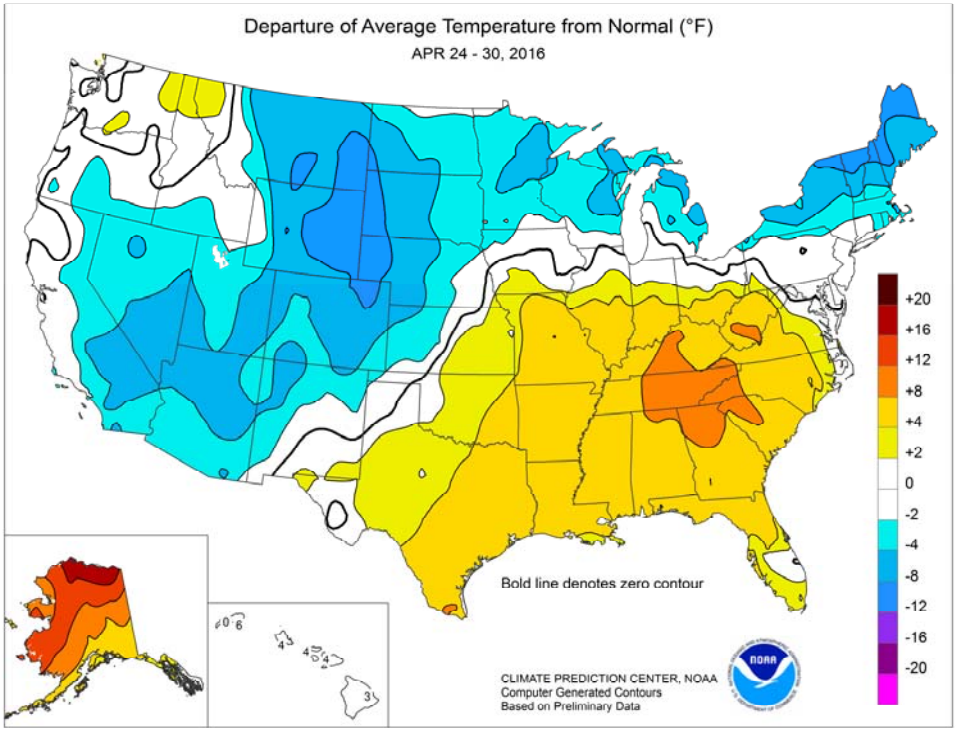
Data obtained from the NWS Cooperative Observer Network.


Extreme Maximum Temperature (°F)
APR 24 - 30, 2016
110
100
90
80
70
60
50
40
30
20
10
0
-10
-20
Bold line denotes 95F contour
86
86
87
85
89
84
CLIMATE PREDICTION CENTER, NOAA
Computer Generated Contours
Based on Preliminary Data


Extreme Minimum Temperature (°F)
APR 24 - 30, 2016
90
80
70
60
50
40
30
20
10
0
-10
-20
-30
-40
Bold line denotes 32F contour
69
72
73
65
65
68
CLIMATE PREDICTION CENTER, NOAA
Computer Generated Contours
Based on Preliminary Data

(Continued from front cover)

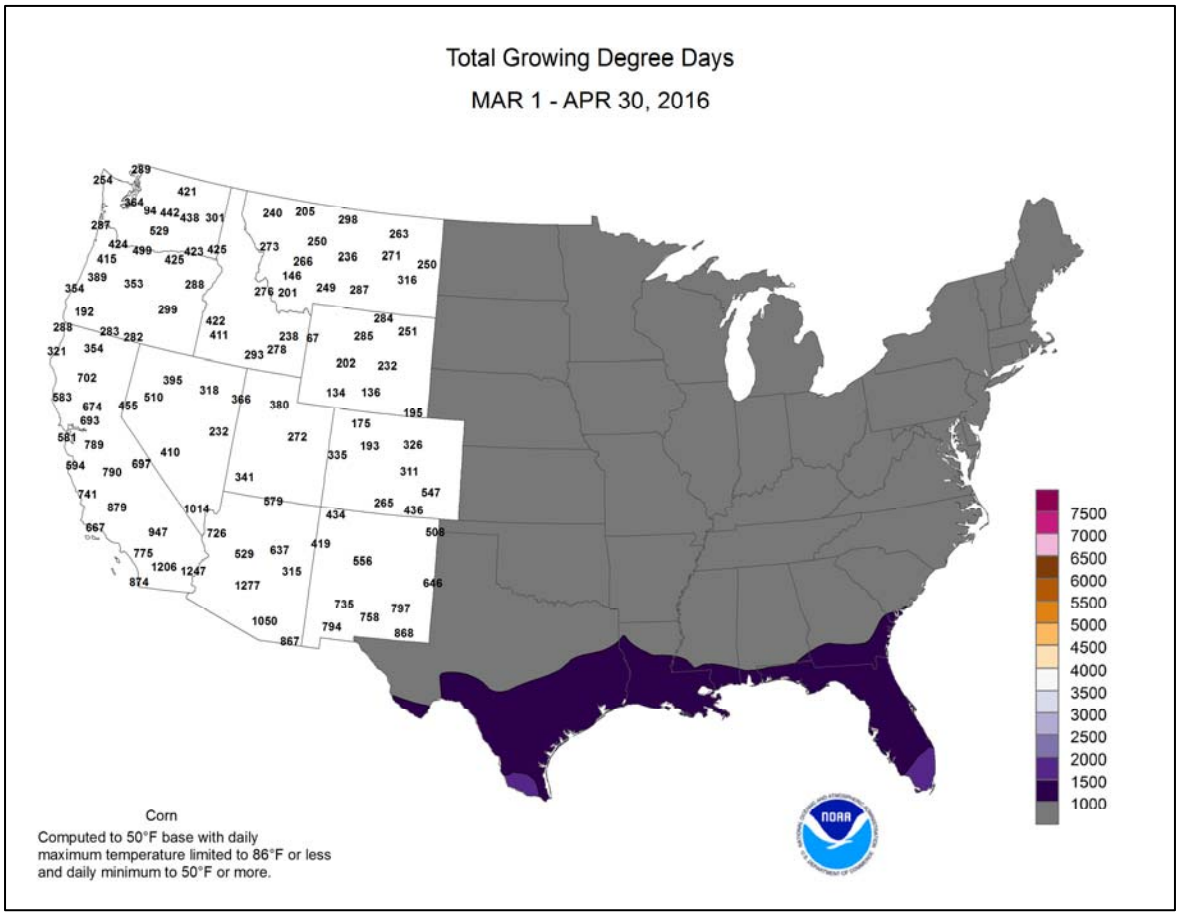
accompanied the rain. Significant precipitation, including high-elevation snow, also fell from the **Great Basin to the central Rockies**. Dry weather was confined to a few small areas, including the **Desert Southwest**, **western and southern Texas**, the **southern Atlantic region**, and **northern New England**. As the week progressed, cool air encroached from the north and west. As a result, weekly temperatures averaged as much as 10°F below normal at a few locations across **northern New England** and the **northern High Plains**. In contrast, warmth lingered for much of the week across the **nation's southeastern quadrant**. Temperatures averaged at least 10°F above normal in portions of the **southern Appalachians** and environs. Late-week temperatures topped 90°F in much of the **southern Atlantic region** and reached 100°F at several locations in **Deep South Texas**.

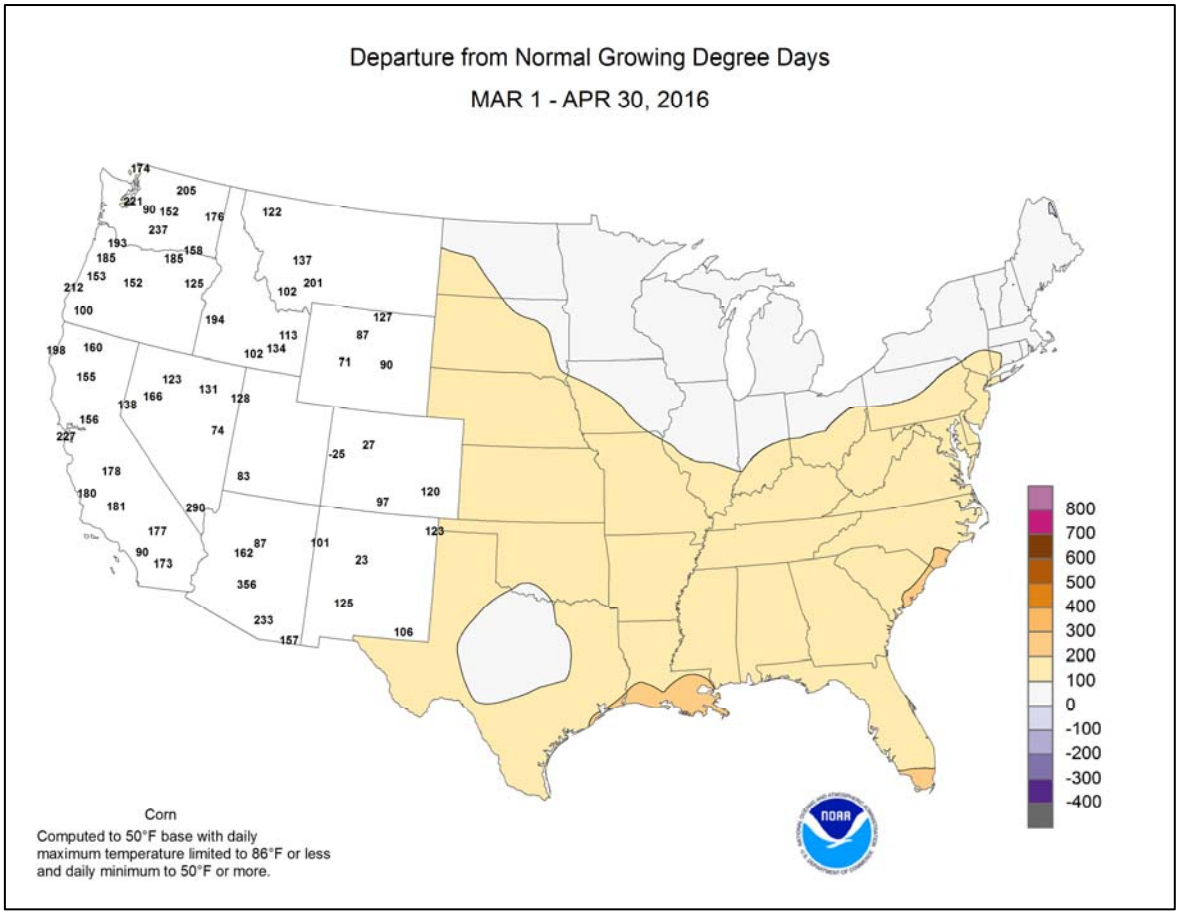


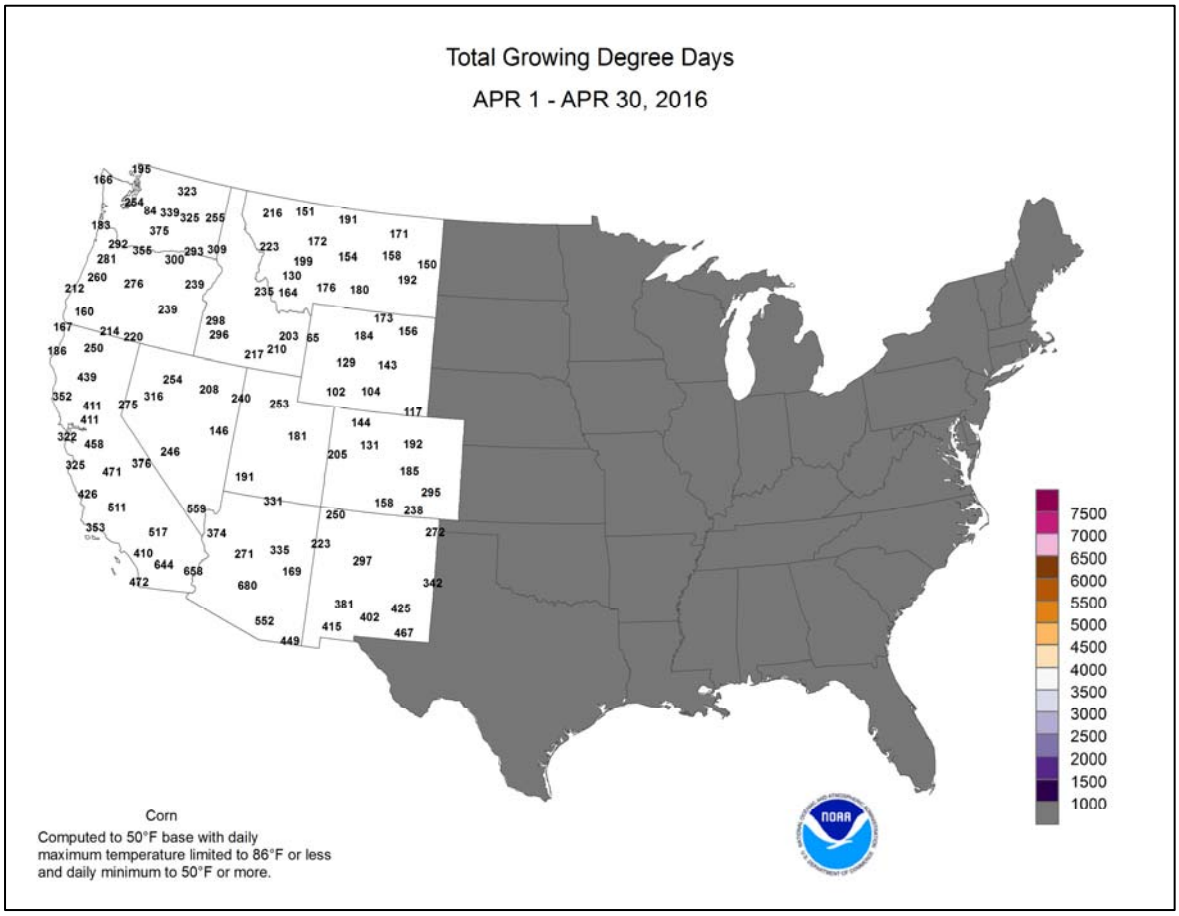
Early in the week, record-setting rainfall spread eastward across the **nation's northern tier**. Record-breaking totals for April 24 reached 2.91 inches in **Miles City, MT**, and 1.50 inches in **Casper, WY**. For **Miles City**, it was also the wettest day (in any month) and April day on record—previous standards had been 2.71 inches on June 18, 1964, and 2.06 inches on April 27, 1989, respectively. For **Casper**, it was the fourth-wettest April day behind 2.80 inches on April 13, 1941; 1.82 inches on April 20, 1974; and 1.57 inches on April 2, 1964. Elsewhere in **Wyoming**, daily-record amounts for April 24 included 1.71 inches in **Sheridan** and 1.42 inches in **Buffalo**. The following day, record-setting amounts for April 25 in **Michigan** totaled 1.05 inches in **Marquette** and 0.96 inch in **Gaylord**. In **Montana**, daily-record snowfall totals for April 25 reached 2.0 inches in **Havre** and 1.7 inches in **Glasgow**. By April 26, separate areas of snow blanketed **New England** and the **northern Intermountain West**. In the former region, daily-record snowfall amounts for the 26th included 2.2 inches in **Portland, ME**, and 2.1 inches in **Burlington, VT**. On the same date, daily-record snowfall amounts in **Wyoming** climbed to 9.9 inches in **Casper** and 3.6 inches in **Riverton**. From April 24-30, **Casper's** precipitation totaled 3.29 inches, including 11.8 inches of snow. Meanwhile, several waves of rain swept across the **Plains**, **Midwest**, and **mid-South**. On April 26, daily-record rainfall totals in **Missouri** climbed to 3.65 inches in **Kansas City** and 3.05 inches in **St. Joseph**. April 27 featured record-setting rainfall amounts in **South Dakota** locations such as **Mitchell** (2.32 inches) and **Huron** (2.09 inches). In late April, another round of precipitation emerged from the **West**. In **Little Rock, AR**, April 29-30 rainfall reached 5.59 inches. On the same dates, precipitation in **Denver, CO**, totaled 0.88 inch, including 3.5 inches of snow. **North Platte, NE**, collected a daily-record snowfall of 2.3 inches on April 30. Elsewhere in **Nebraska**, **Kearney** completed its wettest April on record, with 8.39 inches (previously, 7.59 inches in 1944). The last day of April featured daily-record amounts in locations such as **Lake Charles, LA** (3.34 inches), and **Sioux City, IA** (1.59 inches). Meanwhile, **Las Vegas, NV** (0.93 inch on April 30), reported its second-wettest April day behind 0.97 inch on April 12, 1965—capping its second-wettest April (2.26 inches) trailing only 2.44 inches in 1965. In **Arizona**, it became the wettest April 30 on record in locations such as **Prescott** (0.40 inch) and **Winslow** (0.34 inch). In contrast, no measurable precipitation fell in **Caribou, ME**, from April 13 – May 1, becoming the longest dry spell in that location since March 1-20, 2010.

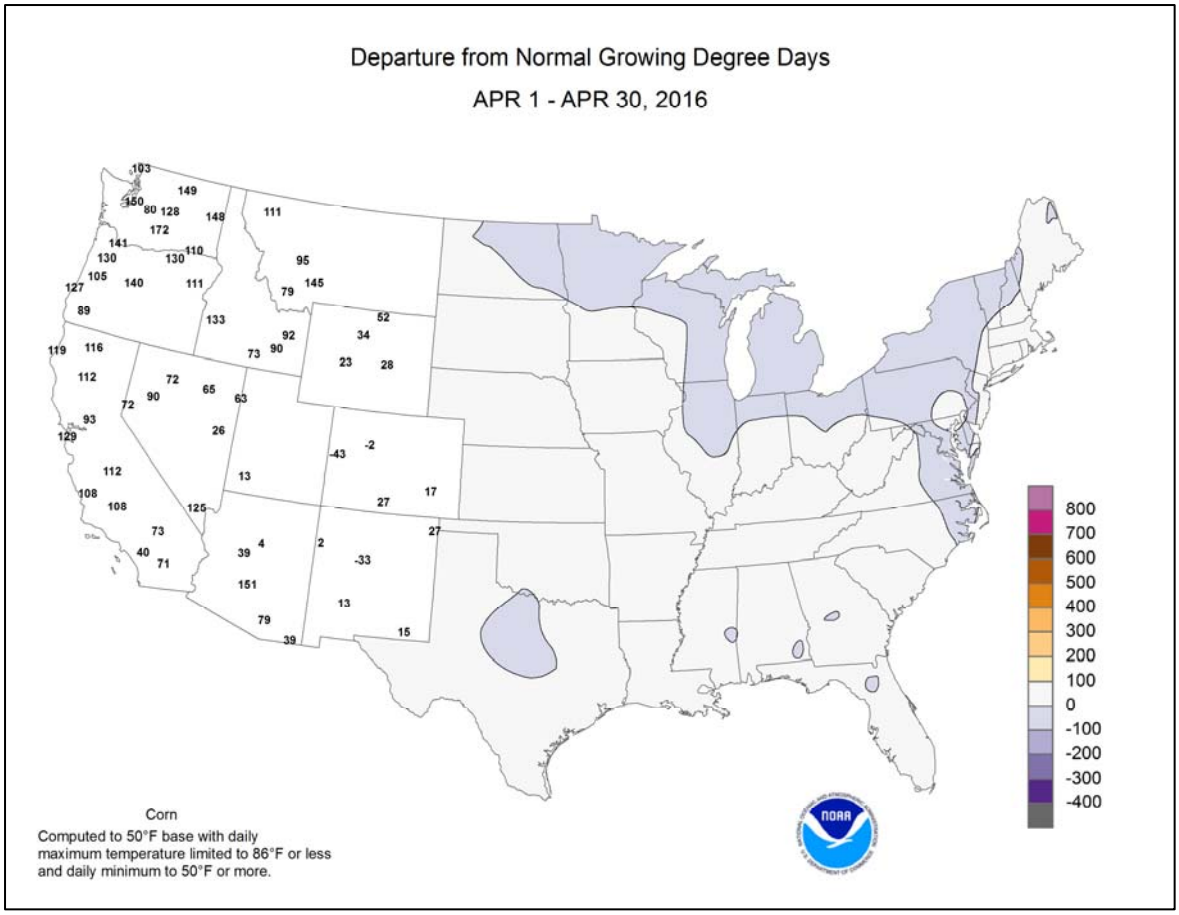
Early-season heat developed across the **Deep South** and persisted for much of the week. **Hattiesburg, MS**, posted a daily-record high of 88°F on April 26. Three days later, record-setting highs in **Georgia** for April 29 soared to 93°F in **Savannah** and 91°F in **Augusta**. On the same date, **Sarasota-Bradenton, FL**, notched a daily-record high of 92°F. In **Deep South Texas**, **McAllen** registered a record-setting high (101°F) for April 30. Farther north, however, chilly conditions were especially prominent in **New England**. In **Maine**, consecutive daily-record lows were set on April 26-27 in locations such as **Houlton** (17 and 18°F) and **Bangor** (24 and 21°F). Cool air also briefly settled across the **Northwest**, where **Klamath Falls, OR**, tallied a daily-record low of 18°F on April 26. A day later, **Laramie, WY**, netted a record-setting low (10°F) for April 27. Very cool conditions persisted in **New England** through April 29, when **Montpelier, VT**, noted a daily-record low of 23°F.

The **Alaskan mainland** experienced another dry, remarkably warm week, with temperatures averaging 10 to 20°F above normal in northern and western areas. Daily-record highs were set in numerous locations, with April 24 temperatures reaching 64°F in **McGrath** and 63°F in **Bethel** and **Delta Junction**. Other daily-record highs included 53°F (on April 25) in **Cold Bay** and 52°F (on April 26) in **Nome**. In contrast, showery weather in **southern Alaska** resulted in weekly rainfall totals of 2.63 inches in **Yakutat** and 2.44 inches in **Kodiak**. Despite the late-month rain, **southeastern Alaska** locations such as **Juneau** and **Sitka** reported their warmest April on record—erasing standards set in 1993. It was also the warmest April in **Anchorage** (43.4°F, or 6.6°F above normal), demolishing the record of 40.7°F set just last year. In addition, **Anchorage** completed its driest April since 1978, with a monthly total of just 0.02 inch (4 percent of normal). Farther south, **Hawaii** experienced a very warm week, with only scattered showers. On **Kauai**, **Lihue** posted daily-record highs of 86°F on April 24 and 28-30. Despite improved rainfall during April, year-to-date **Hawaiian** totals were still substantially below normal. For example, January 1 – April 30 totals at the state's major airport observation sites ranged from 0.87 inch (13 percent of normal) in **Honolulu, Oahu**, to 19.10 inches (44 percent) in **Hilo**, on the **Big Island**. More than half of **Hilo's** year-to-date rainfall (9.64 of 19.10 inches) fell during April.


Total Growing Degree Days
MAR 1 - APR 30, 2016
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.


Departure from Normal Growing Degree Days
MAR 1 - APR 30, 2016
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.


Total Growing Degree Days
APR 1 - APR 30, 2016
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.


Departure from Normal Growing Degree Days
APR 1 - APR 30, 2016
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.

National Weather Data for Selected Cities

Weather Data for the Week Ending April 30, 2016

Data Provided by Climate Prediction Center

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
AL	BIRMINGHAM	83	62	86	52	73	9	0.88	-0.15	0.88	9.45	88	20.19	99	91	40	0	0	1	1
	HUNTSVILLE	84	59	87	50	72	9	0.42	-0.58	0.41	6.48	58	16.43	76	84	40	0	0	2	0
	MOBILE	83	63	86	53	73	5	1.75	0.61	1.22	15.80	129	25.25	109	99	71	0	0	3	2
	MONTGOMERY	86	62	89	54	74	7	1.31	0.37	0.68	10.98	102	21.64	102	88	48	0	0	2	2
AK	ANCHORAGE	52	39	58	35	45	5	0.00	-0.11	0.00	1.25	107	1.83	71	75	61	0	0	0	0
	BARROW	27	23	29	19	25	19	0.03	0.00	0.02	0.18	86	1.34	305	97	84	0	7	2	0
	FAIRBANKS	63	35	67	29	49	10	0.31	0.28	0.29	0.90	184	0.96	68	83	54	0	3	2	0
	JUNEAU	49	42	53	39	46	3	1.61	0.89	0.48	7.40	114	17.19	112	91	77	0	0	6	0
	KODIAK	47	39	50	31	43	4	2.44	1.09	1.16	16.37	153	39.66	161	92	80	0	1	7	1
	NOME	48	31	52	26	40	14	0.00	-0.14	0.00	0.84	67	1.86	64	78	63	0	4	0	0
AZ	FLAGSTAFF	53	29	63	24	41	-4	0.38	0.13	0.26	1.54	39	5.32	62	87	33	0	5	3	0
	PHOENIX	81	62	88	57	72	-1	0.00	-0.01	0.00	0.51	39	1.82	62	31	17	0	0	0	0
	PRESCOTT	62	39	74	34	51	-2	0.67	0.52	0.40	1.82	68	3.30	54	77	29	0	0	5	0
	TUCSON	81	55	87	50	68	-1	0.00	-0.06	0.00	0.83	76	2.54	86	37	19	0	0	0	0
AR	FORT SMITH	80	59	86	54	69	5	3.80	2.82	3.01	11.36	145	13.51	105	84	47	0	0	3	2
	LITTLE ROCK	81	61	84	55	71	7	5.78	4.52	4.22	20.07	194	25.76	149	90	48	0	0	3	2
CA	BAKERSFIELD	74	52	81	47	63	-2	0.21	0.18	0.17	1.42	76	3.55	84	63	41	0	0	2	0
	FRESNO	74	51	80	46	62	-2	0.02	-0.05	0.02	4.04	136	8.79	121	75	48	0	0	1	0
	LOS ANGELES	67	55	71	51	61	-1	0.00	-0.06	0.00	1.77	58	5.44	60	80	56	0	0	0	0
	REDDING	75	52	82	45	64	4	0.02	-0.36	0.02	13.61	180	27.20	139	57	42	0	0	1	0
	SACRAMENTO	76	50	83	46	63	2	0.45	0.32	0.45	6.11	160	12.37	110	82	25	0	0	1	0
	SAN DIEGO	67	58	69	56	63	0	0.00	-0.04	0.00	1.31	44	4.57	62	69	59	0	0	0	0
	SAN FRANCISCO	63	49	71	47	56	-1	0.04	-0.09	0.04	5.97	135	12.40	96	81	58	0	0	1	0
	STOCKTON	75	50	83	47	63	1	0.56	0.43	0.56	6.38	197	11.77	140	75	44	0	0	1	1
CO	ALAMOSA	56	29	66	22	43	-1	0.46	0.33	0.36	2.28	228	3.26	223	84	41	0	6	3	0
	CO SPRINGS	52	34	70	28	43	-5	1.12	0.71	0.88	4.02	150	5.56	168	77	42	0	4	3	1
	DENVER INTL	51	34	72	27	42	-6	0.92	0.55	0.71	4.47	230	5.45	227	81	54	0	3	4	1
	GRAND JUNCTION	58	39	67	35	48	-6	0.87	0.68	0.51	2.69	145	4.06	137	88	51	0	0	4	1
	PUEBLO	62	39	80	34	51	-2	1.26	0.96	1.12	3.55	160	4.42	157	68	41	0	0	2	1
CT	BRIDGEPORT	58	45	65	41	52	0	0.48	-0.40	0.38	4.89	60	12.05	81	77	44	0	0	2	0
	HARTFORD	62	40	67	33	51	-2	0.27	-0.63	0.27	4.65	60	11.48	79	67	38	0	0	1	0
DC	WASHINGTON	67	52	86	46	60	1	0.64	-0.03	0.58	3.26	51	9.73	80	82	59	0	0	4	1
DE	WILMINGTON	64	46	85	43	55	-1	0.25	-0.56	0.15	3.85	52	10.57	78	88	48	0	0	3	0
FL	DAYTONA BEACH	84	65	89	59	74	3	0.11	-0.34	0.11	3.59	56	14.30	117	97	55	0	0	1	0
	JACKSONVILLE	86	62	90	57	74	5	0.02	-0.61	0.02	4.52	64	12.17	87	97	47	1	0	1	0
	KEY WEST	83	74	85	70	79	1	0.00	-0.48	0.00	1.70	43	8.78	115	86	65	0	0	0	0
	MIAMI	85	72	87	68	79	2	0.00	-0.77	0.00	1.70	29	12.13	123	77	52	0	0	0	0
	ORLANDO	88	65	90	62	77	4	0.64	0.18	0.64	6.60	111	13.94	130	89	43	1	0	1	1
	PENSACOLA	80	69	83	62	74	5	0.00	-0.73	0.00	7.65	74	16.30	80	88	61	0	0	0	0
	TALLAHASSEE	88	64	91	55	76	7	0.00	-0.68	0.00	13.01	129	21.70	108	91	47	2	0	0	0
	TAMPA	87	71	90	66	79	6	0.16	-0.20	0.13	3.45	74	12.17	127	83	50	1	0	2	0
	WEST PALM BEACH	84	70	86	67	77	2	0.89	0.10	0.89	3.89	54	16.44	121	77	51	0	0	1	1
GA	ATHENS	86	58	90	52	72	8	0.59	-0.13	0.59	4.42	53	12.58	72	91	44	1	0	1	1
	ATLANTA	84	63	88	56	73	9	0.66	-0.14	0.66	5.19	58	17.72	95	82	44	0	0	1	1
	AUGUSTA	87	57	91	50	72	7	0.01	-0.53	0.01	7.61	101	13.03	81	96	48	2	0	1	0
	COLUMBUS	84	62	88	53	73	6	0.56	-0.24	0.56	9.31	97	16.74	89	93	43	0	0	1	1
	MACON	86	60	90	51	73	8	0.29	-0.32	0.29	10.02	125	15.74	90	96	42	2	0	1	0
	SAVANNAH	86	63	93	55	74	6	0.00	-0.66	0.00	7.28	105	13.69	99	88	45	1	0	0	0
HI	HILO	83	69	84	68	76	3	1.93	-0.53	0.75	14.44	54	19.02	42	86	76	0	0	7	1
	HONOLULU	86	74	87	73	80	4	0.00	-0.22	0.00	0.45	15	0.89	11	76	65	0	0	0	0
	KAHULUI	87	69	89	65	78	3	0.06	-0.24	0.04	3.17	77	4.72	46	80	63	0	0	3	0
	LIHUE	85	74	86	72	80	6	0.20	-0.47	0.10	3.50	53	4.67	32	76	65	0	0	6	0
ID	BOISE	65	44	69	39	54	1	0.00	-0.28	0.00	2.05	76	3.55	68	73	45	0	0	0	0
	LEWISTON	64	47	67	45	55	1	0.77	0.46	0.59	3.71	153	5.29	117	74	56	0	0	3	1
	POCATELLO	58	37	63	32	47	-1	0.64	0.36	0.23	4.29	168	5.57	118	88	63	0	1	4	0
IL	CHICAGO/O'HARE	61	44	83	41	53	2	1.62	0.80	0.61	6.15	97	8.22	85	89	70	0	0	5	2
	MOLINE	63	49	83	45	56	2	1.23	0.35	0.66	5.36	80	6.69	68	83	67	0	0	3	2
	PEORIA	67	50	84	47	59	4	1.90	1.01	0.96	4.88	76	6.26	65	87	61	0	0	3	2
	ROCKFORD	62	45	83	42	53	1	1.13	0.28	0.60	6.91	115	8.44	96	81	64	0	0	4	1
	SPRINGFIELD	72	52	85	48	62	5	1.25	0.44	0.61	8.36	128	10.69	108	91	61	0	0	4	1
IN	EVANSVILLE	75	55	83	44	65	6	2.95	1.87	1.66	11.36	130	17.70	120	94	67	0	0	4	2
	FORT WAYNE	64	44	80	38	54	1	1.26	0.44	0.62	7.03	110	10.08	97	86	58	0	0	3	1
	INDIANAPOLIS	71	52	82	46	62	7	2.04	1.16	0.69	9.94	141	13.66	114	85	58	0	0	4	2
	SOUTH BEND	61	45	79	42	53	1	1.22	0.41	0.63	8.81	135	12.59	117	84	66	0	0	4	1
IA	BURLINGTON	65	50	82	46	57	1	1.11	0.22	0.55	5.96	91	7.33	78	96	68	0	0	3	1
	CEDAR RAPIDS	60	46	79	37	53	0	0.72	-0.05	0.35	5.06	93	6.59	87	96	69	0	0	3	0
	DES MOINES	64	50	81	45	57	2	1.90	1.02	0.88	5.39	93	7.17	90	84	69	0	0	5	2
	DUBUQUE	56	45	76	40	50	-2	0.90	0.06	0.69	5.55	92	6.63	76	92	74	0	0	3	1
	SIOUX CITY	58	46	73	42	52	-2	3.20	2.51	1.59	8.88	187	10.72	180	86	75	0	0	5	2
	WATERLOO	58	47	78	42	52	0	1.43	0.64	0.80	5.48	102	7.20	99	87	69	0	0	4	1
KS	CONCORDIA	65	48	80	37	56	0	0.72	0.06	0.50	2.35	49	3.90	63	87	67	0	0	4	1
	DODGE CITY	66	43	81	35	55	-2	2.27	1.73	2.27	8.13	199	8.72	162	88	47	0	0	1	1
	GOODLAND	59	36	76	32	48	-4	1.24	0.77	1.12	4.51	166	5.37	150	91	64	0	3	3	1
	TOPEKA	70	53	80	45	62	4	4.38	3.57	2.01	9.23	162	10.50	134	89	63	0	0	5	4

Based on 1971-2000 normals

***** Not Available**

Weather Data for the Week Ending April 30, 2016

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 JAN01	PCT. NORMAL SINCE JAN01	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
	WICHITA	72	52	82	44	62	4	3.48	2.85	2.75	7.76	147	8.50	119	86	62	0	0	3	2
KY	JACKSON	77	56	84	46	67	8	3.29	2.35	1.53	6.85	84	16.42	107	87	48	0	0	4	3
	LEXINGTON	75	55	84	44	65	7	2.01	1.13	0.96	6.10	75	12.44	85	84	58	0	0	4	2
	LOUISVILLE	77	59	86	51	68	8	1.64	0.67	0.77	8.67	104	14.49	98	85	50	0	0	3	2
	PADUCAH	77	57	84	42	67	7	2.15	0.96	0.93	12.48	135	17.94	108	89	52	0	0	4	2
LA	BATON ROUGE	85	66	89	55	75	6	2.04	0.75	1.62	14.75	139	24.06	110	92	53	0	0	3	1
	LAKE CHARLES	83	68	85	59	75	5	4.30	3.35	3.34	13.35	186	19.52	122	94	65	0	0	2	2
	NEW ORLEANS	84	69	87	62	76	6	2.63	1.59	2.07	16.26	158	24.39	113	87	66	0	0	3	1
	SHREVEPORT	84	64	87	57	74	6	4.10	3.01	2.21	26.15	304	31.17	179	91	55	0	0	3	2
ME	CARIBOU	45	23	58	18	34	-9	0.00	-0.63	0.00	7.49	144	12.96	127	60	24	0	7	0	0
	PORTLAND	53	30	62	27	42	-5	0.40	-0.54	0.40	5.94	71	13.48	86	78	33	0	5	1	0
MD	BALTIMORE	67	48	86	43	58	1	0.24	-0.47	0.14	3.41	49	12.61	94	83	57	0	0	4	0
MA	BOSTON	54	41	62	37	48	-4	0.27	-0.49	0.27	5.93	80	13.37	91	74	40	0	0	1	0
	WORCESTER	57	36	61	31	47	-2	0.32	-0.57	0.32	5.98	73	13.36	87	73	28	0	2	1	0
MI	ALPENA	50	30	58	27	40	-5	1.22	0.68	1.08	7.79	175	12.32	163	88	42	0	6	3	1
	GRAND RAPIDS	60	39	80	35	50	0	1.60	0.81	0.67	8.78	145	13.70	142	86	50	0	0	3	2
	HOUGHTON LAKE	54	33	59	28	44	-2	0.68	0.18	0.54	6.93	160	10.05	140	79	53	0	3	3	1
	LANSING	59	38	79	33	48	-1	0.98	0.33	0.43	6.81	126	9.96	117	83	53	0	0	4	0
	MUSKEGON	60	40	77	34	50	1	1.08	0.42	0.49	7.44	141	11.65	128	79	53	0	0	4	0
	TRAVERSE CITY	54	35	61	29	44	-3	0.91	0.34	0.66	6.31	134	10.09	107	87	38	0	2	3	1
MN	DULUTH	45	32	52	29	39	-5	1.69	1.21	1.34	6.38	169	8.26	144	78	57	0	4	2	1
	INT'L FALLS	52	32	57	26	42	-3	0.80	0.46	0.80	4.81	206	6.17	162	78	38	0	3	1	1
	MINNEAPOLIS	54	42	62	34	48	-4	1.85	1.33	0.65	5.14	123	6.54	109	84	66	0	0	4	2
	ROCHESTER	55	43	71	37	49	0	1.16	0.43	0.57	5.71	117	7.11	108	92	68	0	0	5	1
	ST. CLOUD	52	37	59	31	45	-4	1.33	0.86	0.85	3.26	90	4.22	85	90	54	0	1	4	1
MS	JACKSON	83	63	88	52	73	7	0.47	-0.86	0.28	19.48	166	31.07	142	91	55	0	0	2	0
	MERIDIAN	83	59	87	50	71	5	0.30	-0.92	0.30	16.56	132	24.05	101	94	56	0	0	1	0
	TUPELO	81	60	86	52	70	6	2.35	1.22	1.24	13.74	122	20.91	99	88	56	0	0	3	2
MO	COLUMBIA	74	55	81	49	65	7	1.67	0.61	1.02	4.53	61	6.19	55	92	58	0	0	4	1
	KANSAS CITY	68	53	80	46	60	2	5.68	4.70	3.64	9.88	170	11.04	133	92	64	0	0	5	3
	SAINT LOUIS	78	59	87	54	69	9	2.70	1.83	1.13	6.78	93	8.38	72	82	56	0	0	4	2
	SPRINGFIELD	76	56	84	48	66	7	1.70	0.73	0.98	5.48	67	6.76	54	80	59	0	0	4	2
MT	BILLINGS	46	35	54	31	41	-8	0.45	-0.01	0.25	2.83	99	3.37	79	92	66	0	1	4	0
	BUTTE	46	34	51	27	40	-2	0.11	-0.17	0.06	1.62	88	2.09	73	88	51	0	3	3	0
	CUT BANK	47	34	54	32	40	-4	0.47	0.20	0.33	1.81	125	2.30	108	98	66	0	2	4	0
	GLASGOW	48	35	64	32	42	-7	1.70	1.49	0.70	3.04	249	3.70	202	89	66	0	1	4	2
	GREAT FALLS	46	35	54	32	41	-5	0.40	0.01	0.19	3.31	137	3.96	110	95	68	0	1	5	0
	HAVRE	48	35	60	32	42	-6	0.92	0.67	0.38	3.95	252	4.41	184	93	72	0	3	4	0
	MISSOULA	57	40	61	33	49	1	0.37	0.08	0.18	2.20	107	3.31	85	82	58	0	0	4	0
NE	GRAND ISLAND	60	44	77	40	52	-2	1.67	0.99	0.95	5.67	122	7.84	134	87	72	0	0	4	2
	LINCOLN	65	49	82	45	57	2	2.09	1.33	0.75	5.31	104	6.90	107	88	63	0	0	5	3
	NORFOLK	57	45	74	41	51	-2	2.31	1.65	1.11	7.61	167	9.76	166	86	74	0	0	5	2
	NORTH PLATTE	53	36	74	30	45	-7	1.89	1.33	0.69	6.02	188	7.28	177	90	63	0	2	5	2
	OMAHA	64	50	82	45	57	2	3.12	2.33	1.33	6.45	127	8.17	123	89	70	0	0	6	2
	SCOTTSBLUFF	50	33	67	30	41	-9	2.09	1.61	0.70	6.60	224	7.37	181	88	68	0	3	6	1
	VALENTINE	51	38	75	33	44	-6	2.87	2.30	1.46	6.17	200	6.85	177	89	74	0	0	4	2
NV	ELY	48	33	55	27	40	-5	0.85	0.63	0.47	3.02	155	6.06	176	92	73	0	4	5	0
	LAS VEGAS	74	54	81	49	64	-5	1.23	1.20	0.93	2.26	305	2.81	139	50	34	0	0	4	1
	RENO	61	40	69	33	51	0	0.18	0.11	0.16	1.94	160	4.06	122	65	42	0	0	2	0
	WINNEMUCCA	56	33	62	29	45	-4	0.59	0.40	0.35	1.86	109	3.97	126	88	59	0	3	4	0
NH	CONCORD	60	29	69	25	45	-4	0.35	-0.37	0.35	4.31	71	10.09	88	79	27	0	6	1	0
NJ	NEWARK	65	46	72	44	55	-1	0.13	-0.81	0.10	2.51	31	10.56	70	78	42	0	0	2	0
NM	ALBUQUERQUE	68	45	80	40	57	-1	0.15	0.04	0.14	0.63	57	1.05	51	52	20	0	0	2	0
NY	ALBANY	58	38	66	34	48	-3	0.51	-0.23	0.51	3.02	47	8.33	75	67	34	0	0	1	1
	BINGHAMTON	54	36	61	29	45	-3	0.52	-0.29	0.26	7.27	113	12.98	113	76	49	0	1	3	0
	BUFFALO	53	37	61	30	45	-4	0.55	-0.11	0.39	4.75	79	10.03	86	75	44	0	1	3	0
	ROCHESTER	52	35	60	29	44	-6	0.66	0.06	0.49	3.37	63	8.67	89	77	53	0	4	3	0
	SYRACUSE	54	34	65	28	44	-6	0.52	-0.25	0.39	4.46	70	11.18	100	90	39	0	4	2	0
NC	ASHEVILLE	80	52	84	42	66	9	1.35	0.57	1.18	4.15	51	13.13	82	86	49	0	0	2	1
	CHARLOTTE	83	58	86	48	70	6	0.78	0.13	0.78	2.89	39	9.67	65	83	41	0	0	1	1
	GREENSBORO	79	58	86	50	68	8	1.25	0.43	1.06	4.21	58	10.35	74	92	47	0	0	2	1
	HATTERAS	70	58	77	45	64	2	0.14	-0.53	0.13	8.28	100	21.39	119	93	66	0	0	2	0
	RALEIGH	79	58	87	50	69	7	0.76	0.10	0.56	7.02	103	13.42	94	87	60	0	0	2	1
	WILMINGTON	79	59	85	49	69	4	0.02	-0.69	0.02	4.75	66	16.81	110	93	50	0	0	1	0
ND	BISMARCK	51	38	62	34	45	-3	2.69	2.30	1.55	4.60	199	5.24	160	91	68	0	0	5	2
	DICKINSON	47	33	58	31	40	-7	1.43	1.00	0.58	2.65	108	3.07	94	90	60	0	4	4	1
	FARGO	58	40	66	34	49	0	1.30	0.96	0.72	3.06	120	4.04	104	77	44	0	0	2	2
	GRAND FORKS	56	36	64	32	46	-2	0.78	0.47	0.45	2.62	124	3.20	95	81	42	0	1	2	0
	JAMESTOWN	52	37	62	30	44	-4	1.59	1.24	0.94	2.94	131	3.13	92	92	53	0	1	2	2
	WILLISTON	53	36	64	33	44	-3	1.26	0.98	0.91	2.14	120	3.27	120	78	51	0	0	4	1
OH	AKRON-CANTON	64	40	79	35	52	0	0.94	0.11	0.44	8.08	124	12.67	112	81	52	0	0	4	0
	CINCINNATI	73	53	82	45	63	6	2.78	1.87	1.25	10.16	129	16.79	124	90	60	0	0	4	3
	CLEVELAND	61	40	80	34	51	0	1.22	0.45	0.49	8.10	128	12.69	115	84	55	0	0	5	0
	COLUMBUS	67	46	80	39	57	2	0.32	-0.47	0.26	6.68	109	11.09	102	84	64	0	0	3	0
	DAYTON	69	47	80	40	58	4	1.50	0.56	0.73	8.46	116	13.28	109	89	61	0	0	4	2
	MANSFIELD	63	39	80	35	51	0	1.34	0.38	0.47	7.68	102	12.57	102	91	50	0	0	3	0

Based on 1971-2000 normals ***** Not Available**

Weather Data for the Week Ending April 30, 2016

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 JAN01	PCT. NORMAL SINCE JAN01	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
	TOLEDO	62	40	80	33	51	-1	1.59	0.89	0.70	9.04	154	12.26	127	82	53	0	0	4	2
	YOUNGSTOWN	63	38	79	32	51	0	0.77	0.00	0.34	7.58	119	12.77	119	84	61	0	1	4	0
OK	OKLAHOMA CITY	75	55	83	48	65	2	1.01	0.17	0.92	8.38	142	9.84	113	92	57	0	0	2	1
	TULSA	77	57	83	48	67	3	1.46	0.40	0.83	8.78	117	9.97	90	89	64	0	0	3	2
OR	ASTORIA	59	44	61	37	51	1	0.38	-0.54	0.31	14.17	115	36.45	122	89	71	0	0	5	0
	BURNS	58	35	63	29	46	0	0.00	-0.19	0.00	1.44	69	3.16	72	74	45	0	2	0	0
	EUGENE	60	43	64	35	52	1	0.53	-0.17	0.44	8.81	93	18.65	79	90	70	0	0	4	0
	MEDFORD	63	43	71	34	53	-1	0.16	-0.12	0.05	3.41	108	8.65	112	83	43	0	0	4	0
	PENDLETON	63	45	67	40	54	1	0.05	-0.20	0.03	2.04	85	4.41	87	68	45	0	0	3	0
	PORTLAND	62	45	70	40	53	0	0.16	-0.39	0.08	6.70	106	18.02	116	83	61	0	0	3	0
	SALEM	61	42	67	35	52	0	0.28	-0.28	0.19	8.41	121	19.14	107	87	66	0	0	3	0
PA	ALLENTOWN	65	44	81	37	55	2	0.40	-0.45	0.21	2.85	40	11.88	89	75	41	0	0	3	0
	ERIE	53	37	61	33	45	-6	0.71	-0.01	0.24	5.04	77	11.25	99	84	64	0	0	5	0
	MIDDLETOWN	64	47	82	40	55	0	0.66	-0.16	0.38	3.81	58	13.74	112	85	46	0	0	4	0
	PHILADELPHIA	66	47	86	45	57	0	0.28	-0.54	0.19	3.76	52	10.75	79	77	44	0	0	2	0
	PITTSBURGH	67	44	80	37	56	3	0.58	-0.12	0.25	4.92	80	9.85	88	79	42	0	0	3	0
	WILKES-BARRE	62	40	71	32	51	-2	0.50	-0.29	0.25	4.55	76	10.35	98	84	38	0	1	5	0
	WILLIAMSPORT	65	42	78	33	53	0	0.69	-0.11	0.24	2.75	41	9.17	75	77	40	0	0	5	0
RI	PROVIDENCE	58	41	63	35	50	-2	0.14	-0.73	0.14	6.58	77	14.95	91	76	41	0	0	1	0
SC	BEAUFORT	84	64	91	56	74	7	0.02	-0.49	0.01	5.32	80	11.30	82	92	51	1	0	2	0
	CHARLESTON	84	62	91	55	73	6	1.47	0.95	1.47	5.81	86	14.10	101	91	49	1	0	1	1
	COLUMBIA	87	62	91	53	75	9	0.00	-0.54	0.00	4.70	62	11.33	71	81	45	2	0	0	0
	GREENVILLE	83	59	87	49	71	9	0.92	0.11	0.92	4.03	46	12.28	70	84	40	0	0	1	1
SD	ABERDEEN	56	39	72	31	47	-3	1.10	0.66	0.57	4.13	130	4.83	117	88	66	0	1	4	1
	HURON	55	41	76	34	48	-3	2.41	1.85	2.09	5.22	132	6.09	122	94	67	0	0	3	1
	RAPID CITY	47	36	60	32	41	-7	1.08	0.58	0.63	2.95	102	3.81	102	94	72	0	3	4	1
	SIOUX FALLS	53	43	74	38	48	-2	2.81	2.17	1.26	6.72	151	8.41	153	90	77	0	0	5	3
TN	BRISTOL	80	52	83	40	66	9	1.57	0.76	0.62	5.33	75	12.73	91	95	39	0	0	3	2
	CHATTANOOGA	84	58	86	51	71	9	0.10	-0.79	0.09	5.07	49	15.81	76	87	43	0	0	2	0
	KNOXVILLE	82	58	85	48	70	9	0.60	-0.33	0.50	5.00	55	14.89	84	87	41	0	0	3	1
	MEMPHIS	80	64	85	58	72	7	2.17	0.84	1.58	22.18	195	30.03	151	84	53	0	0	2	2
	NASHVILLE	83	59	87	48	71	10	0.60	-0.34	0.28	5.45	62	12.08	73	88	39	0	0	3	0
TX	ABILENE	82	56	88	49	69	2	0.58	0.15	0.58	8.56	278	9.28	179	83	55	0	0	1	1
	AMARILLO	73	44	85	36	59	0	1.17	0.84	1.16	3.62	147	4.31	118	76	35	0	0	2	1
	AUSTIN	85	65	90	59	75	4	1.56	0.80	1.10	10.54	227	12.72	149	92	64	1	0	3	1
	BEAUMONT	84	68	88	59	76	6	1.08	0.14	0.95	12.13	160	18.08	109	96	64	0	0	4	1
	BROWNSVILLE	87	74	90	67	81	5	0.75	0.25	0.72	5.94	206	7.82	144	95	74	2	0	2	1
	CORPUS CHRISTI	86	75	94	69	81	8	0.63	0.08	0.63	9.94	263	12.23	169	89	76	1	0	1	1
	DEL RIO	88	64	91	58	76	3	0.18	-0.28	0.16	6.27	235	7.02	167	89	52	4	0	3	0
	EL PASO	81	59	87	54	70	3	0.00	-0.06	0.00	0.06	12	0.59	44	29	10	0	0	0	0
	FORT WORTH	83	64	87	59	73	5	0.82	-0.09	0.75	7.31	117	10.55	100	81	50	0	0	2	1
	GALVESTON	79	71	81	65	75	3	0.83	0.22	0.83	8.91	167	12.87	107	99	80	0	0	1	1
	HOUSTON	84	66	86	57	75	4	1.56	0.69	0.63	7.38	106	11.49	84	98	69	0	0	4	2
	LUBBOCK	83	50	89	43	67	4	0.00	-0.35	0.00	1.22	60	1.61	49	71	24	0	0	0	0
	MIDLAND	88	58	92	49	73	6	0.13	-0.13	0.13	1.80	157	2.28	101	61	18	4	0	1	0
	SAN ANGELO	86	55	89	45	71	3	0.01	-0.48	0.01	8.46	327	9.27	202	86	45	0	0	1	0
	SAN ANTONIO	85	64	90	59	75	4	1.16	0.43	0.56	9.78	218	12.71	161	91	54	2	0	4	1
	VICTORIA	84	70	89	64	77	5	0.82	-0.01	0.61	8.92	171	13.86	143	93	71	0	0	3	1
	WACO	84	62	87	55	73	4	1.19	0.33	0.67	11.95	218	14.41	147	88	68	0	0	3	1
	WICHITA FALLS	82	55	89	48	68	3	0.42	-0.24	0.41	8.67	177	10.37	137	89	57	0	0	2	0
UT	SALT LAKE CITY	60	45	62	41	52	0	0.29	-0.21	0.15	3.62	92	6.08	92	81	41	0	0	4	0
VT	BURLINGTON	52	30	61	27	41	-7	0.42	-0.27	0.42	4.09	79	8.43	93	71	29	0	6	1	0
VA	LYNCHBURG	72	52	85	44	62	4	0.55	-0.28	0.29	5.56	76	12.85	92	93	61	0	0	3	0
	NORFOLK	68	53	86	47	61	0	0.82	0.06	0.65	6.24	84	17.11	116	82	61	0	0	2	1
	RICHMOND	70	52	87	45	61	1	0.58	-0.16	0.37	3.18	44	10.83	78	92	62	0	0	3	0
	ROANOKE	78	55	86	42	66	7	0.75	-0.12	0.26	3.45	46	11.68	85	90	49	0	0	4	0
	WASH/DULLES	67	50	84	44	58	2	0.52	-0.24	0.42	3.36	50	11.61	92	84	61	0	0	3	0
WA	OLYMPIA	62	39	69	32	50	1	0.04	-0.63	0.02	10.10	114	25.24	112	92	64	0	1	3	0
	QUILLAYUTE	57	41	63	34	49	1	0.10	-1.42	0.10	18.16	99	49.63	112	94	69	0	0	1	0
	SEATTLE-TACOMA	61	46	67	43	54	2	0.42	-0.07	0.30	6.72	106	20.14	129	87	66	0	0	3	0
	SPOKANE	62	42	66	33	52	3	0.08	-0.22	0.05	3.62	129	7.08	115	81	42	0	0	2	0
	YAKIMA	70	43	77	32	57	6	0.01	-0.07	0.01	2.11	172	4.83	151	57	34	0	1	1	0
WV	BECKLEY	74	51	79	36	63	8	1.03	0.16	0.47	4.70	67	10.99	83	87	49	0	0	4	0
	CHARLESTON	78	54	84	39	66	9	2.06	1.26	1.00	5.74	80	12.91	95	92	45	0	0	4	2
	ELKINS	72	47	79	35	60	8	1.39	0.52	0.68	5.89	79	11.56	82	92	43	0	0	5	2
	HUNTINGTON	77	54	84	41	66	8	1.89	1.07	1.08	6.98	97	14.43	107	92	49	0	0	4	2
WI	EAU CLAIRE	55	40	61	36	47	-3	1.73	1.04	1.02	7.21	151	8.59	130	92	50	0	0	4	1
	GREEN BAY	51	38	56	31	44	-5	0.19	-0.37	0.16	5.33	115	7.81	114	84	54	0	1	3	0
	LA CROSSE	59	44	79	39	51	-2	0.75	-0.04	0.42	5.68	106	7.85	104	85	47	0	0	5	0
	MADISON	57	40	77	36	49	-1	1.09	0.34	0.42	8.07	143	10.31	126	87	64	0	0	5	0
	MILWAUKEE	54	40	78	37	47	-2	0.61	-0.22	0.40	6.15	97	8.46	86	89	67	0	0	5	0
WY	CASPER	42	29	57	22	36	-9	3.32	2.86	1.53	5.00	207	6.45	177	91	78	0	7	5	2
	CHEYENNE	43	30	60	25	36	-9	1.65	1.22	0.85	4.83	186	6.03	173	91	76	0	5	6	1
	LANDER	43	34	54	31	38	-9	3.86	3.32	1.33	9.20	278	10.13	232	96	75	0	4	7	3
	SHERIDAN	46	34	53	32	40	-7	1.33	0.87	0.73	4.16	150	5.61	136	91	76	0	2	4	1

Based on 1971-2000 normals ***** Not Available**

National Agricultural Summary

April 25 – May 1, 2016

Weekly National Agricultural Summary provided by USDA/NASS

HIGHLIGHTS

Mostly dry conditions were reported in all areas along the Pacific Coast and the Southwest, with those regions generally receiving less than one half inch of precipitation for the week. Precipitation was more widespread across the central U.S., with many locations recording 1 to 5 inches of rain. Above-normal temperatures prevailed from the southern Great Plains into most of the eastern U.S., with numerous locations recording weekly temperatures more than 6°F above normal. Conversely, temperatures were below average across most of the West. Parts of the northern High Plains recorded temperatures more than 10°F below normal.

Corn: Producers had planted 45 percent of this year's corn by May 1, equal to last year but 15 percentage points ahead of the 5-year average. Planting progress was well ahead of historical averages in the central sections of the major corn-producing region, but continued to lag the normal pace in the western Corn Belt. By week's end, 13 percent of the nation's corn had emerged, 6 percentage points ahead of last year and 5 points ahead of the 5-year average.

Soybeans: By week's end, 8 percent of the nation's soybean crop was planted, 2 percentage points behind last year but 2 points ahead of the 5-year average. Planting was most advanced in the lower Mississippi Valley. Favorable planting conditions in Arkansas, Louisiana, Mississippi, and Tennessee led to double-digit weekly planting progress.

Winter Wheat: By May 1, heading of the winter wheat crop had advanced to 42 percent, 3 percentage points ahead of last year and 8 points ahead of the 5-year average. Heading progress advanced more than 20 percentage points in Arkansas, Illinois, Kansas, Missouri, and Texas. Overall, 61 percent of the winter wheat was reported in good to excellent condition, up 2 percentage points from last week and 18 points above the same time last year.

Cotton: Nationally, cotton producers had planted 16 percent of their crop by week's end, slightly ahead of last year but 2 percentage points behind the 5-year average. Cotton planting was delayed in northern Texas due to wet conditions. In Georgia, producers had planted 10 percent of their crop, 3 percentage points behind the 5-year average.

Sorghum: Planting advanced to 23 percent complete by May 1, five percentage points behind last year and 3 points behind the 5-year average. Planting progress remained behind normal for most estimating states, with only Missouri and Oklahoma at or ahead of their respective 5-year averages.

Rice: By week's end, 72 percent of the rice was seeded, 17 percentage points ahead of last year and 16 points ahead of the 5-year average. Nationally, emergence advanced to 55 percent complete, 21 percentage points ahead of last year and 16 points ahead of the 5-year average. An additional 26 percent of the crop emerged during the week in Arkansas, the nation's leading rice-producing state.

Other Small Grains: By May 1, oat producers had sown 78 percent of the nation's crop, 3 percentage points behind last year but 13 points ahead of the 5-year average. Nationally, 56 percent of the oat crop had emerged by week's end, 3 percentage points ahead of last year and 9 points ahead of the 5-year average. Iowa, Minnesota, Pennsylvania, and South Dakota reported emergence progress more than 20 percentage points ahead of their respective 5-year averages.

Nationwide, barley producers had seeded 57 percent of their crop by week's end, 13 percentage points behind last year but 10 points ahead of the 5-year average. By May 1, emergence was evident on 29 percent of the nation's barley acreage, 4 percentage points behind last year but 11 points ahead of the 5-year average.

Fifty-four percent of the spring wheat was seeded by May 1, fifteen percentage points behind last year but 15 points ahead of the 5-year average. Planting progress was ahead of the 5-year average in all estimating states except Idaho. By week's end, 22 percent of the spring wheat had emerged, 2 percentage points behind last year but 8 points ahead of the 5-year average.

Other Crops: Nationally, peanut producers had planted 12 percent of this year's crop by week's end, 3 percentage points ahead of last year and 2 points ahead of the 5-year average. Planting was most advanced in Florida, at 25 percent complete, 9 percentage points ahead of the 5-year average.

By May 1, sugarbeet producers had planted 80 percent of the nation's crop, 11 percentage points behind last year but 32 points ahead of the 5-year average. In Minnesota, producers had planted 88 percent of the sugarbeet crop, more than 3 weeks ahead of the 5-year average pace.

Crop Progress and Condition

Week Ending May 1, 2016

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

Corn Percent Planted

	Prev Year	Prev Week	May 1 2016	5-Yr Avg
CO	24	7	19	22
IL	58	42	66	38
IN	16	11	30	22
IA	53	40	57	28
KS	46	43	50	41
KY	20	50	64	38
MI	23	3	8	12
MN	70	45	59	27
MO	49	81	89	47
NE	45	16	26	31
NC	70	73	84	80
ND	38	6	16	14
OH	11	8	27	17
PA	6	14	34	12
SD	41	6	12	21
TN	41	65	80	57
TX	66	52	66	71
WI	31	10	22	12
18 Sts	45	30	45	30

These 18 States planted 93% of last year's corn acreage.

Corn Percent Emerged

	Prev Year	Prev Week	May 1 2016	5-Yr Avg
CO	1	0	0	1
IL	11	4	25	12
IN	1	0	4	7
IA	2	0	7	3
KS	20	22	27	16
KY	4	8	29	18
MI	0	0	0	1
MN	6	1	5	2
MO	15	24	57	21
NE	6	1	7	4
NC	40	34	55	54
ND	0	0	1	0
OH	0	0	1	2
PA	1	0	2	1
SD	1	0	0	1
TN	10	15	45	32
TX	57	43	47	58
WI	0	0	1	0
18 Sts	7	5	13	8

These 18 States planted 93% of last year's corn acreage.

Soybeans Percent Planted

	Prev Year	Prev Week	May 1 2016	5-Yr Avg
AR	24	17	32	24
IL	9	2	9	5
IN	3	2	6	8
IA	8	3	7	3
KS	5	0	2	4
KY	1	3	7	5
LA	36	19	29	47
MI	6	0	2	4
MN	23	2	6	6
MS	48	25	46	37
MO	4	5	11	3
NE	9	0	2	6
NC	1	1	5	3
ND	10	0	2	3
OH	3	0	5	5
SD	4	0	1	2
TN	3	2	12	4
WI	3	1	2	1
18 Sts	10	3	8	6

These 18 States planted 95% of last year's soybean acreage.

Cotton Percent Planted

	Prev Year	Prev Week	May 1 2016	5-Yr Avg
AL	9	14	22	17
AZ	72	55	75	70
AR	15	3	36	19
CA	49	80	85	74
GA	6	2	10	13
KS	2	0	0	2
LA	14	3	15	36
MS	14	6	21	16
MO	11	14	51	11
NC	2	1	5	11
OK	5	2	4	4
SC	7	8	16	14
TN	6	1	10	5
TX	12	11	13	17
VA	0	5	11	6
15 Sts	15	10	16	18

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

Sorghum Percent Planted

	Prev Year	Prev Week	May 1 2016	5-Yr Avg
AR	58	30	43	59
CO	3	0	1	2
IL	3	1	2	7
KS	1	0	0	1
LA	79	64	71	86
MO	9	14	21	7
NE	8	1	1	3
NM	12	5	6	7
OK	29	10	16	13
SD	1	0	0	1
TX	61	50	57	63
11 Sts	28	20	23	26

These 11 States planted 98% of last year's sorghum acreage.

Peanuts Percent Planted

	Prev Year	Prev Week	May 1 2016	5-Yr Avg
AL	15	3	9	10
FL	10	12	25	16
GA	9	4	13	10
NC	0	0	4	6
OK	32	0	12	17
SC	10	0	4	10
TX	3	2	12	7
VA	0	0	5	2
8 Sts	9	4	12	10

These 8 States planted 97% of last year's peanut acreage.

Crop Progress and Condition

Week Ending May 1, 2016

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

Winter Wheat Percent Headed

	Prev Year	Prev Week	May 1 2016	5-Yr Avg
AR	72	58	84	71
CA	84	85	90	91
CO	5	0	1	3
ID	4	3	4	1
IL	8	2	29	20
IN	3	3	14	9
KS	34	23	49	28
MI	1	0	0	0
MO	13	23	56	27
MT	0	0	0	0
NE	2	0	1	3
NC	54	40	59	68
OH	1	0	5	0
OK	85	57	72	73
OR	4	0	1	2
SD	0	0	0	0
TX	76	50	73	66
WA	1	5	14	0
18 Sts	39	26	42	34

These 18 States planted 90%
of last year's winter wheat acreage.

Winter Wheat Condition by Percent

	VP	P	F	G	EX
AR	3	6	34	45	12
CA	0	0	15	35	50
CO	1	11	23	53	12
ID	0	1	9	71	19
IL	1	4	27	54	14
IN	1	3	18	59	19
KS	2	8	38	46	6
MI	2	6	20	55	17
MO	1	3	28	57	11
MT	1	4	30	50	15
NE	0	4	35	50	11
NC	6	17	33	37	7
OH	0	1	17	56	26
OK	0	5	31	55	9
OR	0	2	33	55	10
SD	0	1	26	67	6
TX	2	8	41	39	10
WA	1	3	14	69	13
18 Sts	1	6	32	50	11
Prev Wk	1	7	33	50	9
Prev Yr	6	14	37	35	8

Spring Wheat Percent Planted

	Prev Year	Prev Week	May 1 2016	5-Yr Avg
ID	87	65	75	78
MN	91	46	63	39
MT	64	53	60	38
ND	58	26	39	28
SD	90	72	81	58
WA	94	72	83	79
6 Sts	69	42	54	39

These 6 States planted 99%
of last year's spring wheat acreage.

Spring Wheat Percent Emerged

	Prev Year	Prev Week	May 1 2016	5-Yr Avg
ID	58	14	45	44
MN	44	9	27	19
MT	17	2	21	7
ND	12	5	10	8
SD	43	24	52	28
WA	67	41	56	47
6 Sts	24	8	22	14

These 6 States planted 99%
of last year's spring wheat acreage.

Oats Percent Planted

	Prev Year	Prev Week	May 1 2016	5-Yr Avg
IA	93	92	96	80
MN	86	68	82	40
NE	98	85	86	88
ND	47	28	38	23
OH	49	59	76	55
PA	39	81	88	52
SD	90	74	80	63
TX	100	100	100	100
WI	70	37	54	39
9 Sts	81	71	78	65

These 9 States planted 68%
of last year's oat acreage.

Oats Percent Emerged

	Prev Year	Prev Week	May 1 2016	5-Yr Avg
IA	57	40	68	46
MN	41	27	53	20
NE	80	54	70	59
ND	12	1	10	7
OH	10	17	39	27
PA	17	29	52	27
SD	49	28	54	33
TX	100	100	100	100
WI	23	4	18	15
9 Sts	53	41	56	47

These 9 States planted 68%
of last year's oat acreage.

Rice Percent Planted

	Prev Year	Prev Week	May 1 2016	5-Yr Avg
AR	56	75	87	59
CA	29	3	15	15
LA	87	79	81	91
MS	61	53	69	56
MO	27	86	94	47
TX	65	76	79	85
6 Sts	55	62	72	56

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

Rice Percent Emerged

	Prev Year	Prev Week	May 1 2016	5-Yr Avg
AR	29	40	66	39
CA	11	0	0	5
LA	77	66	73	79
MS	35	30	53	40
MO	5	35	65	23
TX	62	68	76	75
6 Sts	34	38	55	39

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

Crop Progress and Condition

Week Ending May 1, 2016

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

Barley Percent Planted

	Prev Year	Prev Week	May 1 2016	5-Yr Avg
ID	87	71	77	75
MN	82	32	46	34
MT	73	52	65	50
ND	47	19	36	22
WA	85	51	52	67
5 Sts	70	45	57	47

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

Barley Percent Emerged

	Prev Year	Prev Week	May 1 2016	5-Yr Avg
ID	62	36	53	41
MN	36	7	18	13
MT	29	11	30	12
ND	11	4	10	5
WA	55	24	37	33
5 Sts	33	15	29	18

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

Sugarbeets Percent Planted

	Prev Year	Prev Week	May 1 2016	5-Yr Avg
ID	93	65	72	87
MI	77	37	73	46
MN	95	73	88	39
ND	91	52	74	38
4 Sts	91	61	80	48

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

Pasture and Range Condition by Percent
Week Ending May 1, 2016

	VP	P	F	G	EX		VP	P	F	G	EX
AL	0	1	14	72	13	NH	0	15	44	39	2
AZ	16	13	37	30	4	NJ	0	0	54	45	1
AR	1	7	32	50	10	NM	2	18	48	29	3
CA	5	10	20	35	30	NY	0	1	43	47	9
CO	7	12	33	41	7	NC	2	16	39	38	5
CT	54	14	32	0	0	ND	0	3	28	62	7
DE	3	7	30	53	7	OH	1	2	10	71	16
FL	4	9	42	42	3	OK	2	11	41	42	4
GA	2	5	29	53	11	OR	4	8	30	52	6
ID	2	6	22	52	18	PA	6	9	35	44	6
IL	0	2	16	61	21	RI	0	0	0	100	0
IN	1	2	20	61	16	SC	0	3	25	66	6
IA	1	5	29	53	12	SD	0	1	25	65	9
KS	1	4	30	59	6	TN	2	8	33	49	8
KY	1	7	28	55	9	TX	2	7	34	41	16
LA	0	10	32	51	7	UT	0	2	31	56	11
ME	3	65	14	18	0	VT	0	55	0	45	0
MD	1	4	21	59	15	VA	11	25	30	30	4
MA	0	5	35	60	0	WA	0	6	18	64	12
MI	3	5	21	59	12	WV	6	19	36	37	2
MN	5	8	26	53	8	WI	1	6	28	54	11
MS	1	4	24	59	12	WY	0	5	25	66	4
MO	1	5	48	44	2	48 Sts	3	7	32	49	9
MT	5	18	49	26	2						
NE	0	1	28	62	9	Prev Wk	NA	NA	NA	NA	NA
NV	0	5	25	45	25	Prev Yr	3	10	34	44	9

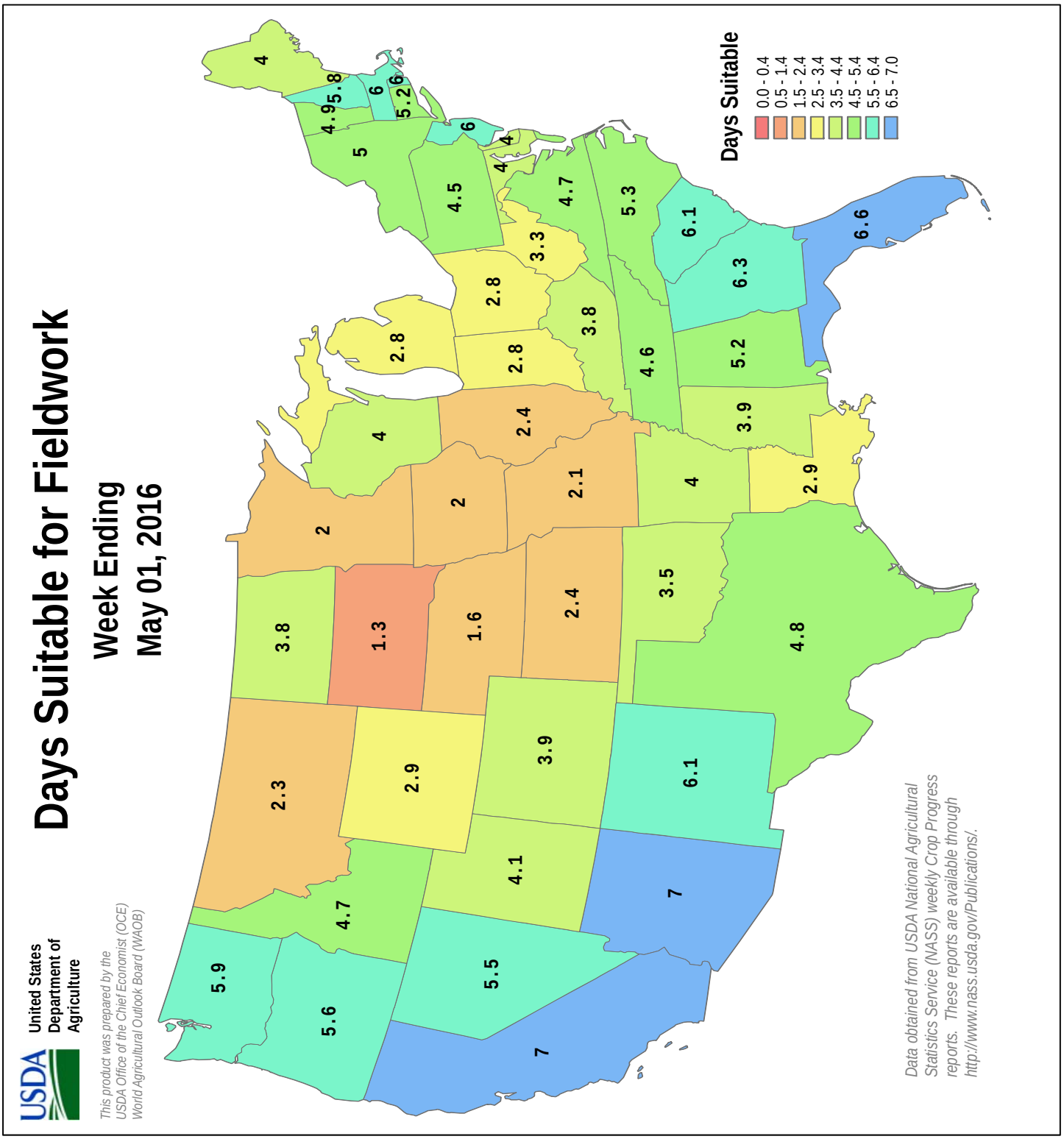
VP - Very Poor; P - Poor;
F - Fair;
G - Good; EX - Excellent

NA - Not Available
*** Revised**

Crop Progress and Condition

Week Ending May 1, 2016

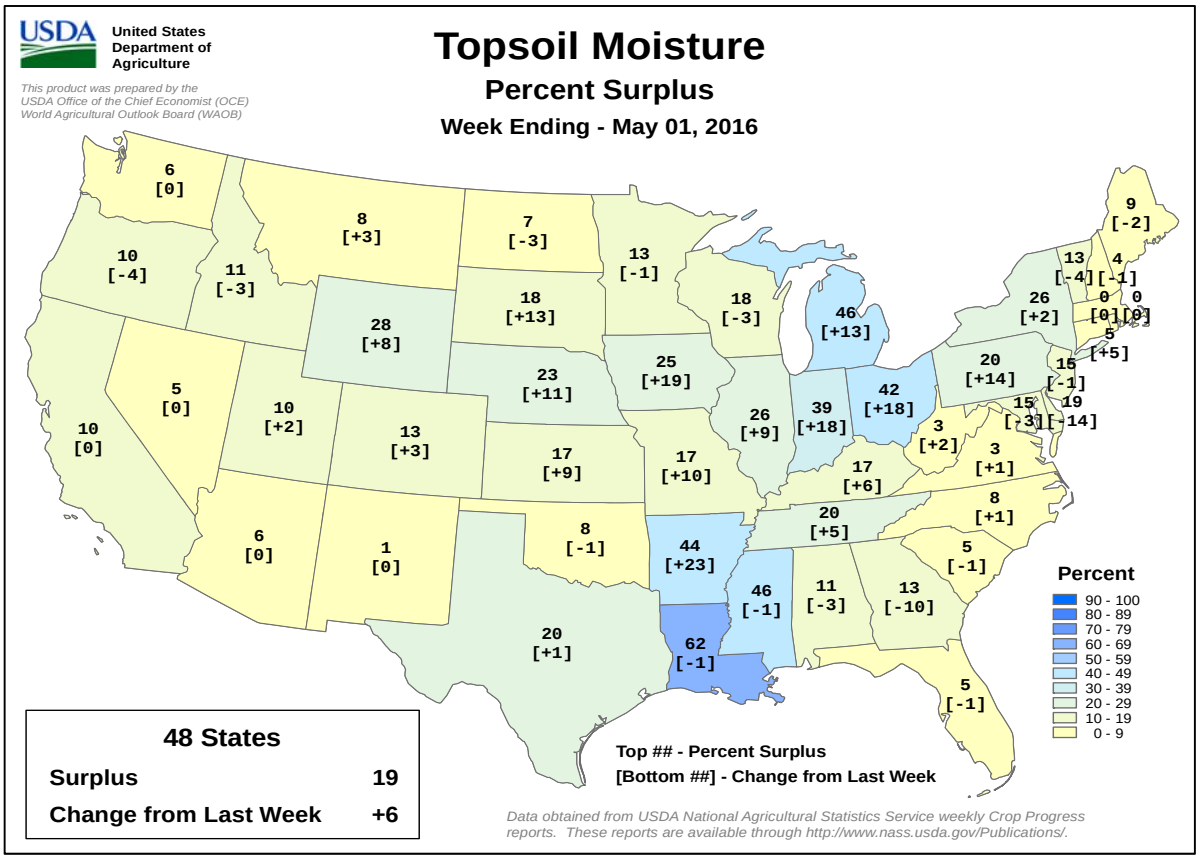
Weekly U.S. Progress and Condition Data provided by USDA/NASS

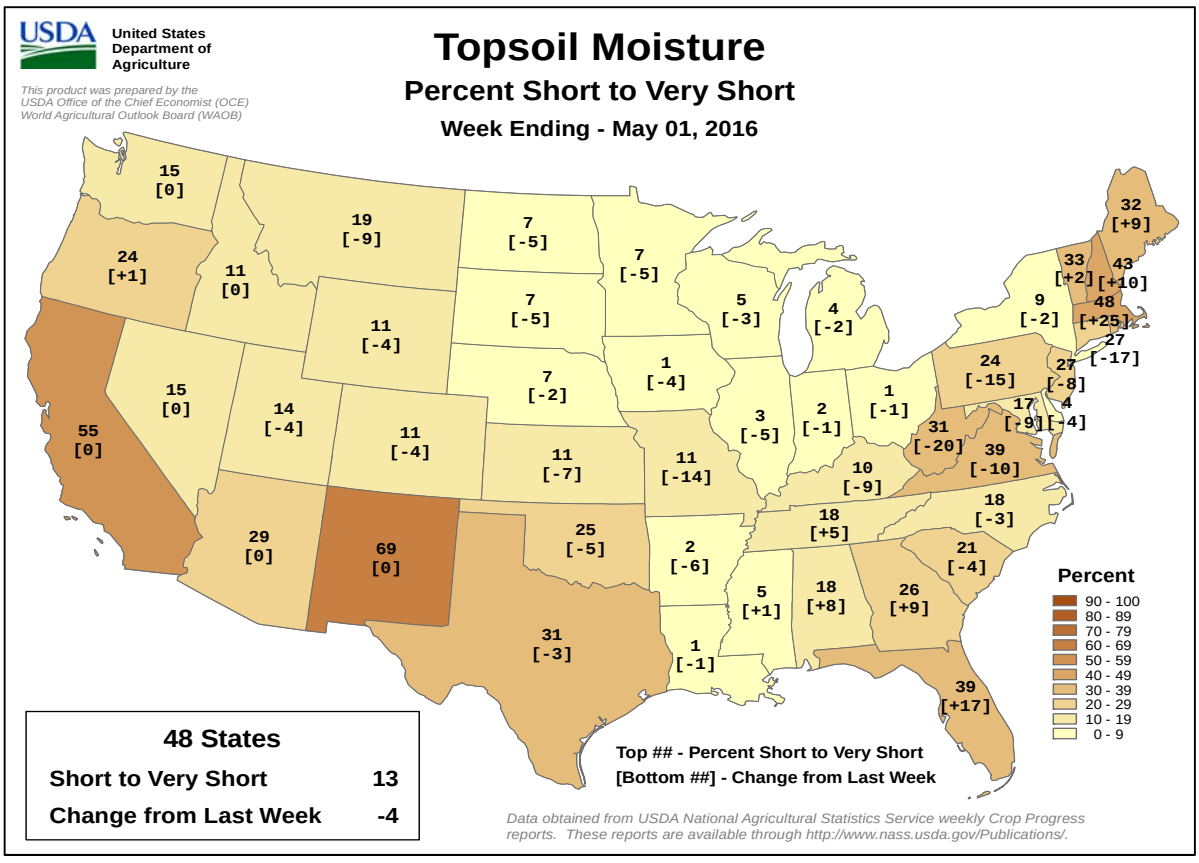


Crop Progress and Condition

Week Ending May 1, 2016

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

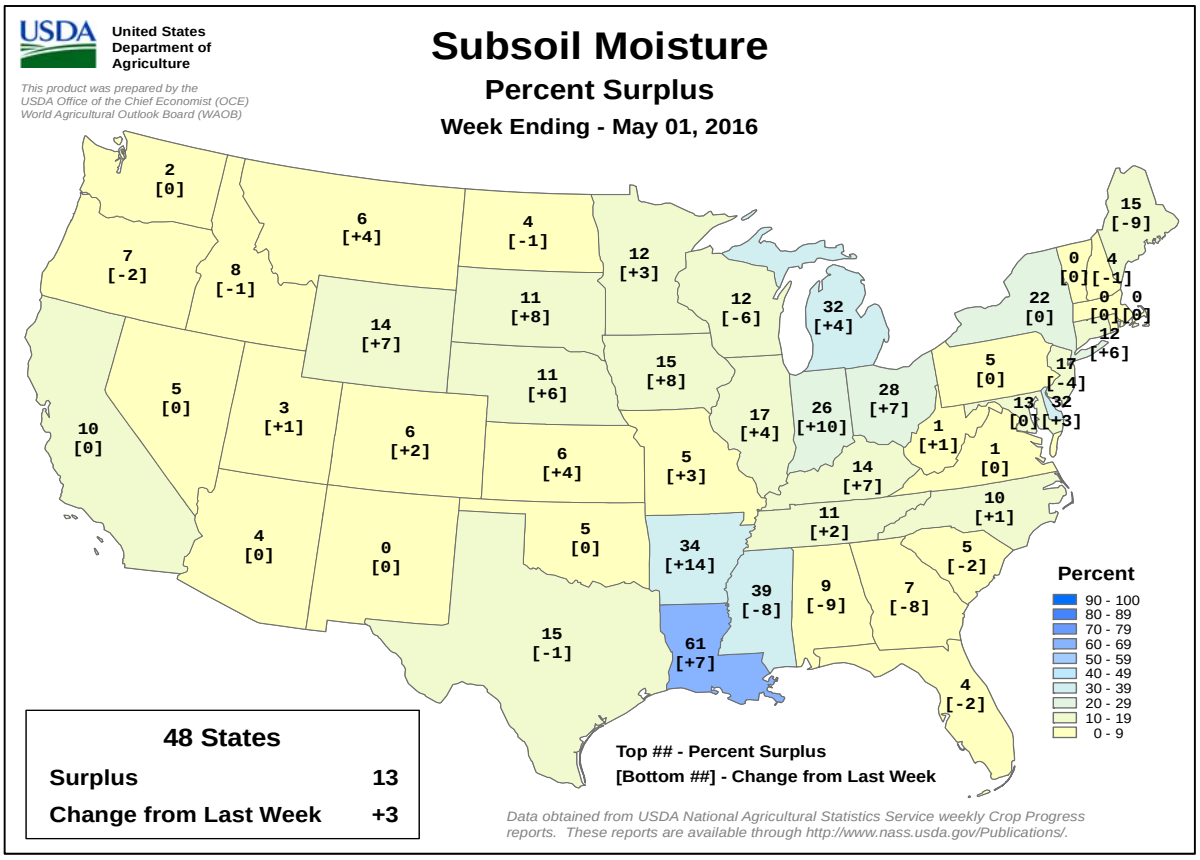


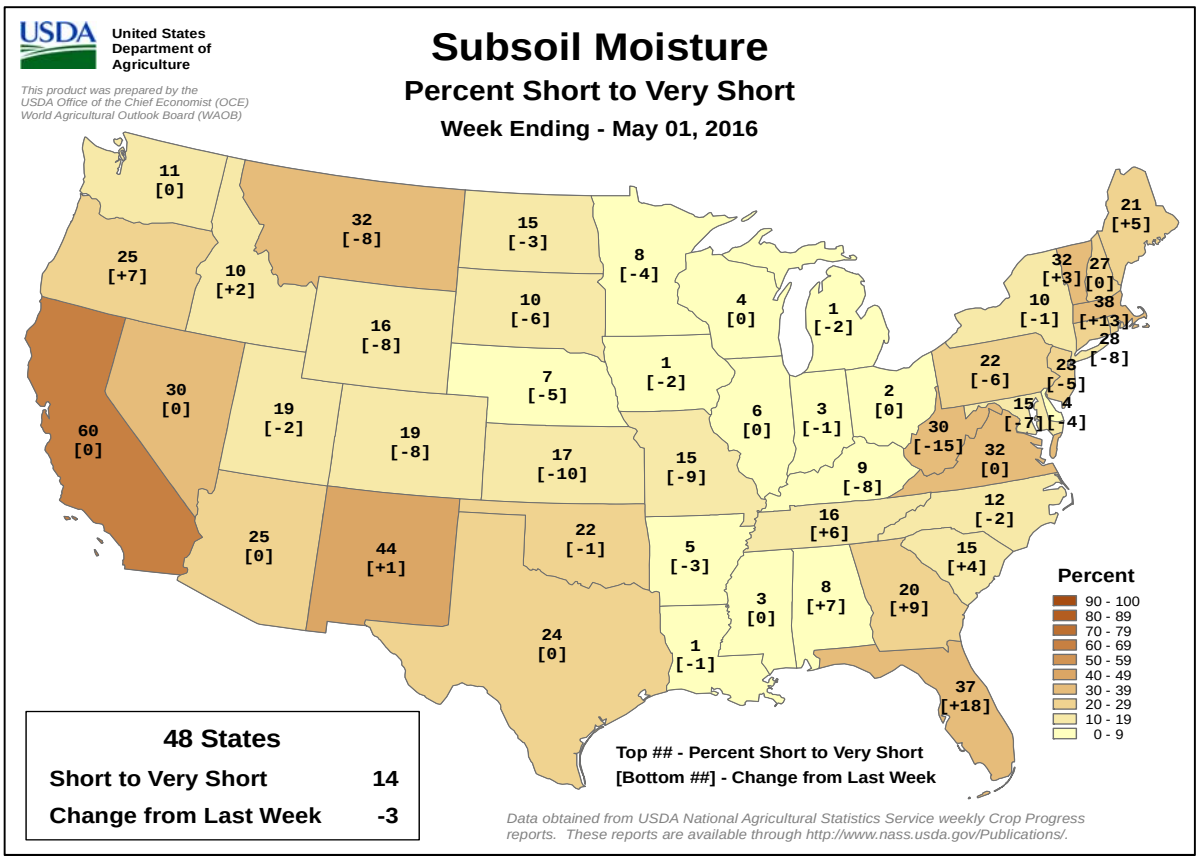


Crop Progress and Condition

Week Ending May 1, 2016

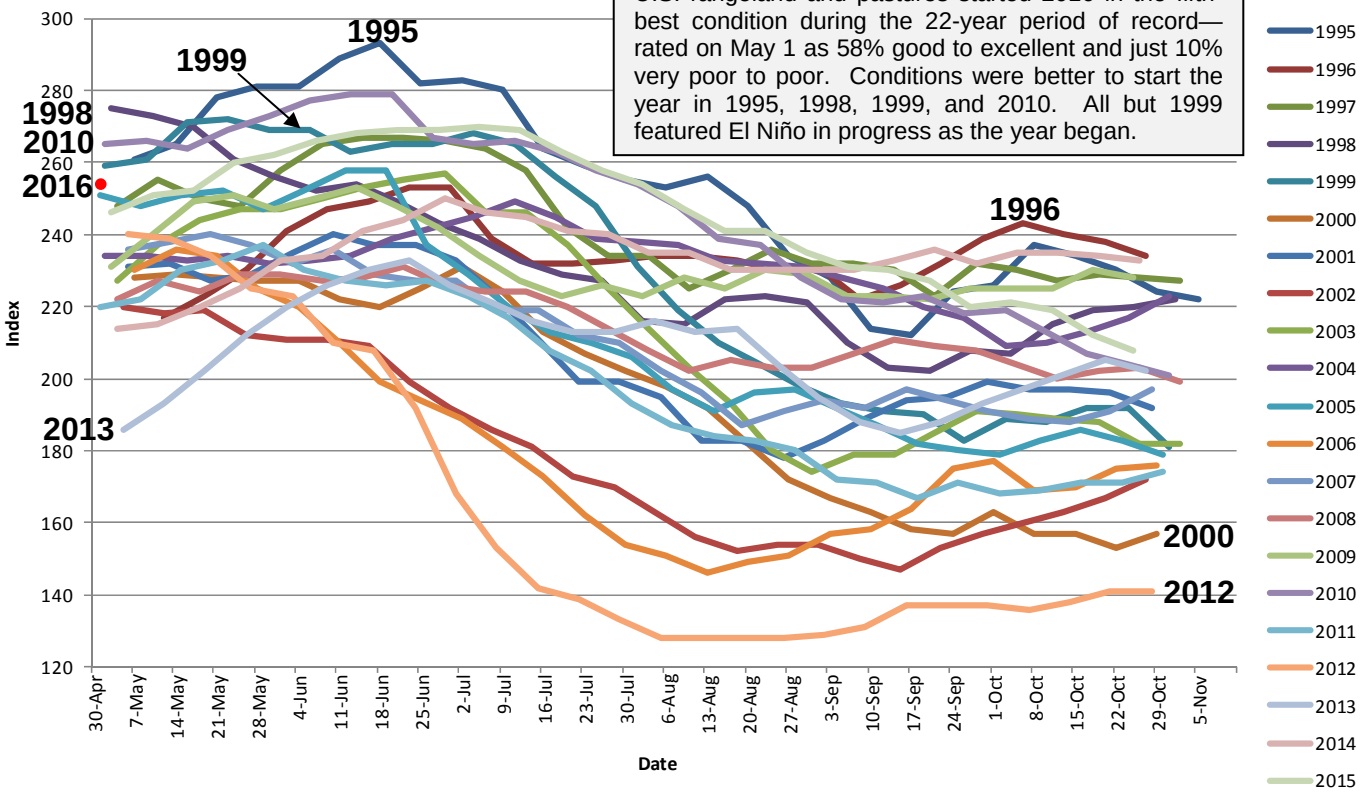
Weekly U.S. Progress and Condition Data provided by USDA/NASS





U.S. PASTURE AND RANGE Condition Index

U.S. rangeland and pastures started 2016 in the fifth-best condition during the 22-year period of record—rated on May 1 as 58% good to excellent and just 10% very poor to poor. Conditions were better to start the year in 1995, 1998, 1999, and 2010. All but 1999 featured El Niño in progress as the year began.

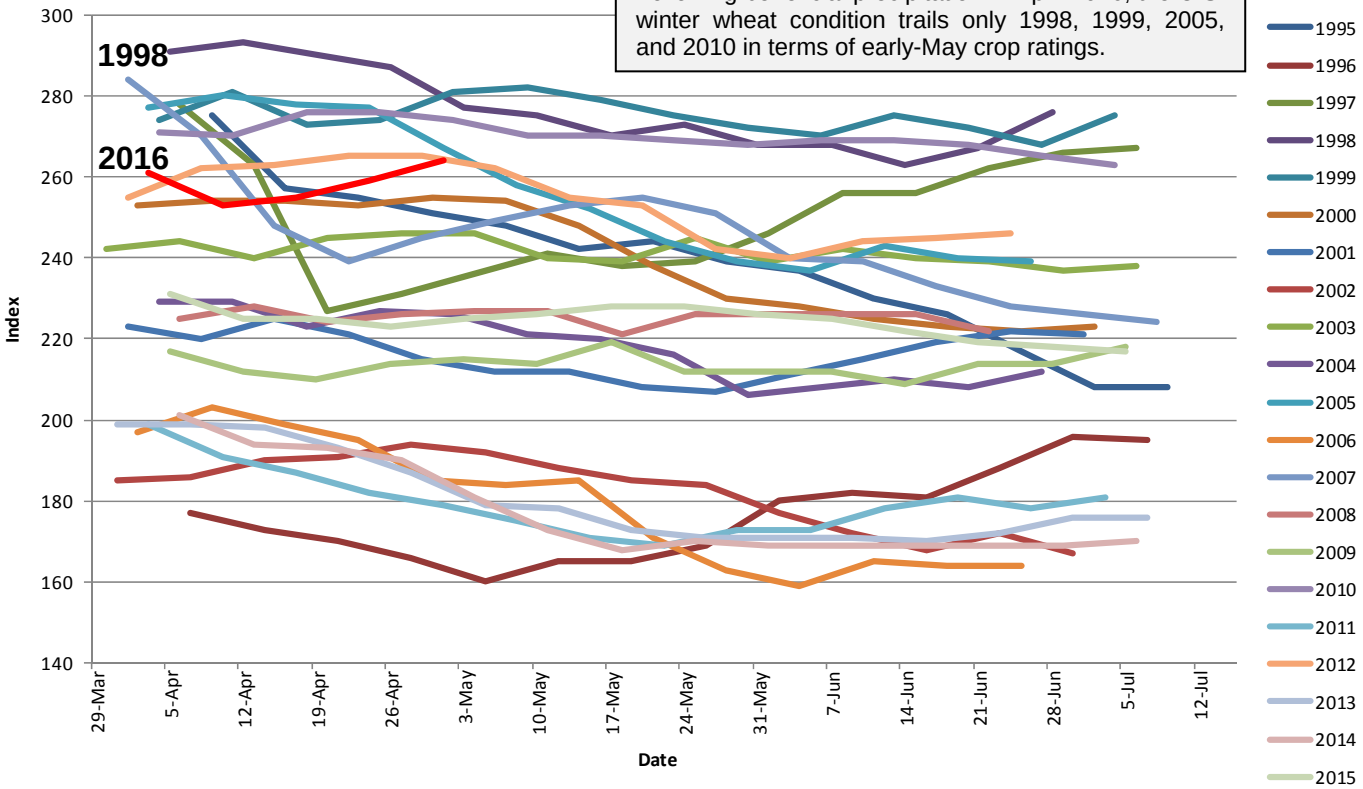


Based on NASS crop progress data.

Condition Index: Excellent = 4; Good = 3; Fair = 2; Poor = 1; Very Poor = 0

U.S. WINTER WHEAT Condition Index

Following beneficial precipitation in April 2016, the U.S. winter wheat condition trails only 1998, 1999, 2005, and 2010 in terms of early-May crop ratings.



Based on NASS crop progress data.

Condition Index: Excellent = 4; Good = 3; Fair = 2; Poor = 1; Very Poor = 0

International Weather and Crop Summary

April 24-30, 2016

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

EUROPE: Cool, unsettled weather over much of the continent benefited winter grains and oilseeds but slowed summer crop sowing operations.

FSU-WESTERN: Warm, showery conditions favored winter wheat development, with drier weather later in the period allowing summer crop planting to resume.

FSU-EASTERN: Sunny skies and above-normal temperatures favored spring wheat planting and emergence over northern Kazakhstan and central Russia.

MIDDLE EAST: Above-normal temperatures accelerated winter grains through reproduction in the north and toward maturity in southern growing areas.

NORTHWEST AFRICA: Dry, warm weather promoted early harvesting efforts in Morocco and accelerated winter grain maturation and drydown elsewhere.

EAST ASIA: Light showers benefited wheat on the North China Plain, while heavier rainfall kept rice well watered in the south.

SOUTHEAST ASIA: Pre-monsoon showers occurred in Thailand, as most of the region's seasonal rainfall remained in Indonesia.

AUSTRALIA: Rain fell across most of the wheat belt, helping to condition topsoils in advance of upcoming winter crop planting.

ARGENTINA: Drier weather brought needed relief from flooding to eastern corn and soybean areas.

BRAZIL: Dry weather dominated much of central Brazil, but beneficial rain returned to southern corn areas.

MEXICO: Drier weather favored planting in eastern sections of the southern plateau corn belt.

April 2016

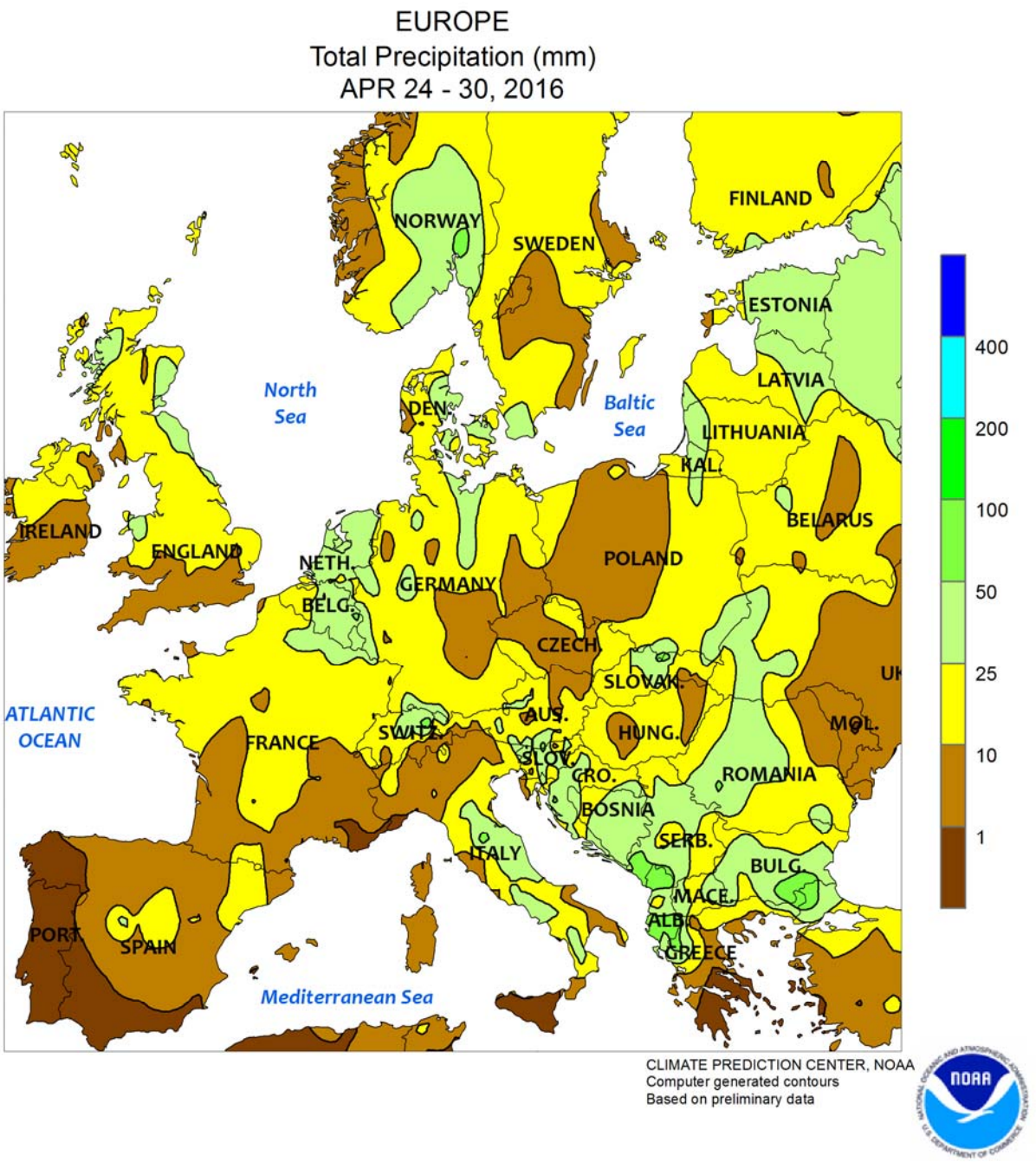
COUNTRY	CITY	TEMPERATURE (C)						PRECIP. (MM)	
		AVG MAX	AVG MIN	HI MAX	LO MIN	AVG	DEP NRM	TOT	DEP NRM
ALGERI	ALGER	22	10	27	3	16	1.1	35	-14
	BATNA	23	8	30	0	15	2.9	66	41
ARGENT	IGUAZU	29	19	34	4	24	2.4	74	-87
	FORMOSA	30	21	37	8	25	3.1	58	-143
	CERES	23	16	36	4	19	0.4	266	162
	CORDOBA	20	11	34	-1	16	-1.3	161	90
	RIO CUARTO	19	11	30	-2	15	-1.2	71	10
	ROSARIO	21	14	32	2	18	0.7	227	99
	BUENOS AIRES	20	13	26	2	17	-0.1	145	57
	SANTA ROSA	19	10	27	-2	14	-1	115	56
	TRES ARROYOS	19	10	25	3	14	0.1	94	9
AUSTRA	DARWIN	34	25	35	24	30	1.2	35	-69
	BRISBANE	27	18	28	15	22	1.1	23	-87
	PERTH	25	15	34	10	20	0.3	57	22
	CEDUNA	24	11	34	3	17	0.1	6	-14
	ADELAIDE	23	13	28	7	18	1.2	14	-23
	MELBOURNE	22	12	30	6	17	2.2	29	-16
	WAGGA	26	11	32	5	18	2.8	13	-35
	CANBERRA	23	9	31	2	16	2.8	5	-43
AUSTRI	VIENNA	16	6	24	-2	11	0.6	93	53
	INNSBRUCK	16	5	25	-2	11	2.4	87	24
BAHAMA	NASSAU	29	21	33	19	25	1.5	23	-37
BELARU	MINSK	13	4	21	1	9	1.9	56	7
BERMUD	ST GEORGES	22	18	25	15	20	0.3	76	-20
BOLIVI	LA PAZ	16	2	19	-3	9	0.4	61	-30
BRAZIL	FORTALEZA	30	25	32	24	28	0.3	248	-105
	RECIFE	30	26	31	24	28	-0.5	110	-142
	CAMPO GRANDE	31	20	34	6	26	1	44	-51
	FRANCA	28	19	30	10	23	1.6	12	-52
	RIO DE JANEIRO	32	23	36	18	27	2.4	20	-89
	LONDRINA	32	19	36	7	26	3.8	81	-34
	SANTA MARIA	27	19	36	4	23	2.6	146	-23
	TORRES	27	20	35	6	24	-0.2	297	187
BULGAR	SOFIA	21	7	31	-2	14	3.7	59	8
BURKIN	OUAGADOUGOU	41	29	43	24	35	1.8	32	11
CANADA	TORONTO	10	0	26	-9	5	-1.5	60	-10
	MONTREAL	9	-1	22	-10	4	-1.7	101	21
	WINNIPEG	8	-2	20	-13	3	-1.2	0	-33
	REGINA	13	-2	23	-12	6	1.1	0	-24
	SASKATOON	12	-2	25	-10	5	0.9	0	-25
	LETHBRIDGE	***	***	***	***	***	*****	*****	******
	CALGARY	16	2	28	-4	9	4.2	4	-20
	VANCOUVER	16	8	24	5	12	2.6	24	-60
CANARY	LAS PALMAS	23	17	25	15	20	1	0	-6
CHILE	SANTIAGO	***	***	26	5	***	*****	*****	******
CHINA	HARBIN	13	3	22	-6	8	0.5	15	-8
	HAMI	24	9	31	4	17	3.1	0	-2
	BEIJING	23	10	32	5	17	2	6	-16
	TIENTSIN	23	11	32	6	17	2.5	4	-20
	LHASA	18	5	22	0	11	2.7	2	-5
	KUNMING	25	12	28	6	18	1.5	27	5
	CHENGCHOW	24	13	33	8	18	2.8	42	3
	YEHCHANG	22	14	30	9	18	1	131	45
	HANKOW	23	15	30	9	19	1.8	166	37
	CHUNGKING	23	17	28	14	20	1.8	133	39
	CHIHKIANG	22	15	29	10	19	2	200	50
	WU HU	22	14	30	8	18	1.7	278	153
	SHANGHAI	21	13	28	8	17	2.1	143	49
	NANCHANG	23	17	29	12	20	2.7	290	72
	TAIPEI	27	22	32	18	25	2.4	178	-22
	CANTON	27	22	31	17	24	1.8	276	76
	NANNING	29	21	35	17	25	2.6	131	31
COLOMB	BOGOTA	20	11	22	8	16	1.7	198	96
COTE D	ABIDJAN	32	27	33	23	30	1.4	18	-157
CUBA	HAVANA	30	19	33	14	25	0.1	3	-51
CYPRUS	LARNACA	26	14	31	10	20	2.7	3	-11
CZECHR	PRAGUE	13	4	24	-2	8	0.7	31	4
DENMAR	COPENHAGEN	11	4	14	-1	7	0.6	28	-6
EGYPT	CAIRO	33	19	42	15	26	4.5	0	-1
	ASWAN	38	22	43	16	30	2.8	0	0

Based on Preliminary Reports

April 2016

COUNTRY	CITY	TEMPERATURE (C)						PRECIP. (MM)	
		AVG MAX	AVG MIN	HI MAX	LO MIN	AVG	DEP NRM	TOT	DEP NRM
ESTONI	TALLINN	10	2	19	-3	6	2.0	61	26
ETHIOP	ADDIS ABABA	24	15	28	13	19	1.2	138	54
F GUIA	CAYENNE	31	24	32	23	27	1.3	546	101
FIJI	NAUSORI	29	23	30	19	26	0.4	410	39
FINLAN	HELSINKI	9	1	13	-3	5	1.7	31	-5
FRANCE	PARIS/ORLY	15	5	22	-1	10	-0.3	42	-12
	STRASBOURG	15	5	22	0	10	0.7	71	30
	BOURGES	14	5	22	-1	10	0.2	81	24
	BORDEAUX	17	7	23	2	12	0.7	59	-15
	TOULOUSE	17	9	24	5	13	1.9	55	-9
	MARSEILLE	19	10	24	5	15	1.8	13	-40
GABON	LIBREVILLE	31	25	31	21	28	0.9	440	94
GERMAN	HAMBURG	***	***	13	-1	***	*****	*****	******
	BERLIN	***	***	15	2	***	*****	*****	******
	DUSSELDORF	***	***	20	-1	***	*****	*****	******
	LEIPZIG	***	***	16	-1	***	*****	*****	******
	DRESDEN	***	***	15	0	***	*****	*****	******
	STUTTGART	***	***	20	2	***	*****	*****	******
	NURNBERG	***	***	20	-1	***	*****	*****	******
	AUGSBURG	13	4	20	-3	8	0.4	45	-6
GREECE	THESSALONIKA	22	10	28	4	16	2.1	8	-29
	LARISSA	24	9	31	3	17	2.7	3	-34
	ATHENS	24	14	28	11	19	3.3	0	-33
GUADEL	RAIZET	30	24	31	21	27	0.9	84	-8
HONGKO	HONG KONG INT	28	23	30	20	26	2.7	182	42
HUNGAR	BUDAPEST	19	7	26	-2	13	1.8	13	-28
ICELAN	REYKJAVIK	***	***	7	2	***	*****	*****	******
INDIA	AMRITSAR	36	18	42	14	27	1.5	20	-7
	NEW DELHI	39	23	42	19	31	2.3	1	-15
	AHMEDABAD	39	25	43	21	32	1.0	0	-2
	INDORE	39	22	42	20	30	0.2	0	-3
	CALCUTTA	39	27	42	20	33	3.0	3	-42
	VERAVAL	33	24	36	21	29	1.4	0	******
	BOMBAY	34	24	38	22	29	0.5	0	******
	POONA	39	20	41	17	30	1.1	2	-8
	BEGAMPET	41	27	43	24	34	2.7	26	8
	VISHAKHAPATNAM	32	27	34	26	29	-0.2	0	-20
	MADRAS	37	27	42	24	32	1.0	0	-10
	MANGALORE	35	26	37	25	31	1.0	0	-43
INDONE	SERANG	33	25	34	23	29	1.1	151	29
IRELAN	DUBLIN	11	3	14	-3	7	-1.4	90	38
ITALY	MILAN	21	11	24	4	16	3.4	11	-68
	VENICE	18	11	21	5	14	1.9	111	40
	GENOA	19	14	23	9	16	2.5	7	-104
	ROME	21	11	25	5	16	2.7	14	-53
	NAPLES	22	12	28	4	17	3.9	52	-39
JAMAIC	KINGSTON	32	25	33	23	28	0.9	26	-10
JAPAN	SAPPORO	12	5	21	0	8	1.7	61	-2
	NAGOYA	21	12	27	5	16	2.1	204	57
	TOKYO	20	12	27	5	16	1.7	125	-4
	YOKOHAMA	20	13	25	7	16	1.8	157	6
	KYOTO	22	12	29	4	17	2.1	183	62
	OSAKA	21	13	28	6	17	2.1	131	6
KAZAKH	KUSTANAY	13	4	24	-3	9	3.0	36	15
	TSELINOGRAD	16	5	25	-1	10	5.5	33	16
	KARAGANDA	16	3	25	-2	9	3.9	23	-1
KENYA	NAIROBI	27	17	30	13	22	1.5	136	-8
LITHUA	KAUNAS	12	3	18	-1	8	1.1	43	3
LUXEMB	LUXEMBOURG	12	4	21	-3	8	0.3	69	10
MALAYS	KUALA LUMPUR	35	26	37	25	31	3.1	256	12
MALI	BAMAKO	40	26	43	21	33	0.5	5	-13
MARSHA	MAJURO	***	***	31	26	***	*****	16	-276
MARTIN	LAMENTIN	32	24	33	21	28	2.2	57	-70
MAURIT	NOUAKCHOTT	34	20	43	15	27	2.4	0	0
MEXICO	GUADALAJARA	***	14	33	10	***	*****	0	-8
	TLAXCALA	26	11	29	8	18	0.4	35	10
	ORIZABA	27	18	35	11	22	2.6	57	17
MOROCC	CASABLANCA	21	13	23	5	17	1.0	10	-27
	MARRAKECH	26	12	33	9	19	1.3	1	-33
MOZAMB	MAPUTO	30	21	41	17	26	1.7	9	-38
N KORE	PYONGYANG	20	7	28	2	14	2.3	61	20
NIGER	NIAMEY	42	30	46	24	36	2.1	34	26
NORWAY	OSLO	8	1	13	-4	5	1.3	93	47
NZEALA	AUCKLAND	21	14	26	10	17	*****	32	******
	WELLINGTON	19	13	24	7	16	*****	33	******
P RICO	SAN JUAN	30	24	33	22	27	0.6	255	161
PAKIST	KARACHI	35	25	40	23	30	1.1	0	-4
PERU	LIMA	26	20	29	19	23	1.8	0	0
PHILIP	MANILA	35	27	36	26	31	1.2	1	-30
PNEWGU	PORT MORESBY	***	***	32	24	***	*****	*****	******
POLAND	WARSAW	14	5	24	-1	10	1.8	38	3
	LODZ	14	4	24	-4	9	0.3	43	7
	KATOWICE	14	4	26	-3	9	0.5	49	1
PORTUG	LISBON	18	11	24	8	15	0.2	90	32
ROMANI	BUCHAREST	21	7	30	1	14	2.2	65	10
RUSSIA	ST.PETERSBURG	10	3	19	-1	7	2.1	70	37
	KAZAN	12	4	23	0	8	3.4	46	12
	MOSCOW	12	4	19	-3	8	1.8	42	3
	YEKATERINBURG	12	4	24	-1	8	3.3	61	33
	OMSK	13	4	26	-2	9	4.9	62	41
	BARNAUL	14	3	28	-4	9	4.9	33	6
	KHABAROVSK	10	0	17	-6	5	0.3	44	-2
	VLADIVOSTOK	9	3	17	-2	6	1.2	82	27
	VOLGOGRAD	17	6	24	-2	12	2.2	31	8
	ASTRAKHAN	19	8	27	1	14	2.1	13	-9
	ORENBURG	15	6	24	-2	10	3.3	26	3
S AFRI	JOHANNESBURG	24	13	28	7	19	3.2	29	-14
	DURBAN	28	20	34	15	24	1.8	28	-47
	CAPE TOWN	24	13	33	8	18	1.1	49	5
S KORE	SEOUL	20	9	30	5	15	2.0	78	19
SAMOA	PAGO PAGO	30	26	32	25	28	0.4	750	467
SENEGA	DAKAR	25	19	33	17	22	0.9	0	0
SPAIN	VALLADOLID	15	5	20	-1	10	-0.5	77	32
	MADRID	18	7	23	0	12	0.0	121	83
	SEVILLE	22	11	28	6	17	0.0	62	7
SWITZE	ZURICH	14	6	21	-1	10	1.6	124	42
	GENEVA	15	6	21	0	10	1.4	95	33
SYRIA	DAMASCUS	29	11	35	3	20	4.2	4	-7
TAHITI	PAPEETE	31	25	33	23	28	1.1	417	298
TANZAN	DAR ES SALAAM	31	25	33	23	28	1.1	378	106
THAILA	PHITSANULOK	40	27	43	26	34	2.5	0	-54
	BANGKOK	37	29	40	27	33	2.1	31	-48
TOGO	LOME	32	27	33	24	29	1.2	4	-96
TRINID	PORT OF SPAIN	34	25	36	22	29	2.2	43	8
TUNISI	TUNIS	24	14	33	9	19	3.2	17	-21
TURKEY	ISTANBUL	21	12	27	7	17	4.3	13	-33
	ANKARA	21	4	27	-3	12	2.8	8	-44
TURKME	ASHKHABAD	24	13	38	6	18	0.5	30	-4
UKINGD	ABERDEEN	9	3	14	-1	6	-0.7	95	36
	LONDON	14	5	19	0	9	-0.3	44	-4
UKRAIN	KIEV	18	8	25	1	13	3.7	68	19
	LVOV	16	5	25	-2	10	2.5	65	10
	KIROVOGRAD	19	6	27	0	13	3.5	33	-6
	ODESSA	15	8	26	3	12	2.3	63	28
	KHARKOV	17	7	25	2	12	2.9	49	12
UZBEKI	TASHKENT	22	11	32	6	17	0.8	54	-3
VENEZU	CARACAS	***	***	31	25	***	*****	*****	******
YUGOSL	BELGRADE	21	11	30	2	16	3.3	55	-5
ZAMBIA	LUSAKA	25	16	30	12	21	-1.2	41	24
ZIMBAB	KADOMA	27	14	31	10	20	-2.2	28	0

Based on Preliminary Reports



EUROPE

Widespread showers and below-normal temperatures maintained favorable winter crop prospects but slowed seasonal fieldwork. A strong area of high pressure centered over northern Eurasia caused storms to stagnate over Europe, resulting in widespread albeit highly variable showers (5-55 mm) across most of the continent. The rain maintained good to excellent prospects for vegetative winter grains and oilseeds in central and northern growing areas as well as reproductive winter crops in northern Spain, central and southern Italy, and the Balkans. However, the wet weather hampered spring grain and summer crop planting, particularly from France, Germany, and the Low Countries into the Danube River Valley. Temperatures averaged up to 6°C below normal over central and northern Europe, though this week's freeze (-4° to -1°C) generally did not pose a risk to winter crops in the jointing stages of development. Nevertheless, crops are more advanced in Hungary (approaching or entering reproduction), and localized readings as low as -3°C may have caused some burnback or freeze injury. In southern portions of the Balkans, where crops are even further into reproduction (flowering) and therefore highly vulnerable to freeze damage, nighttime lows were generally at or above 0°C.

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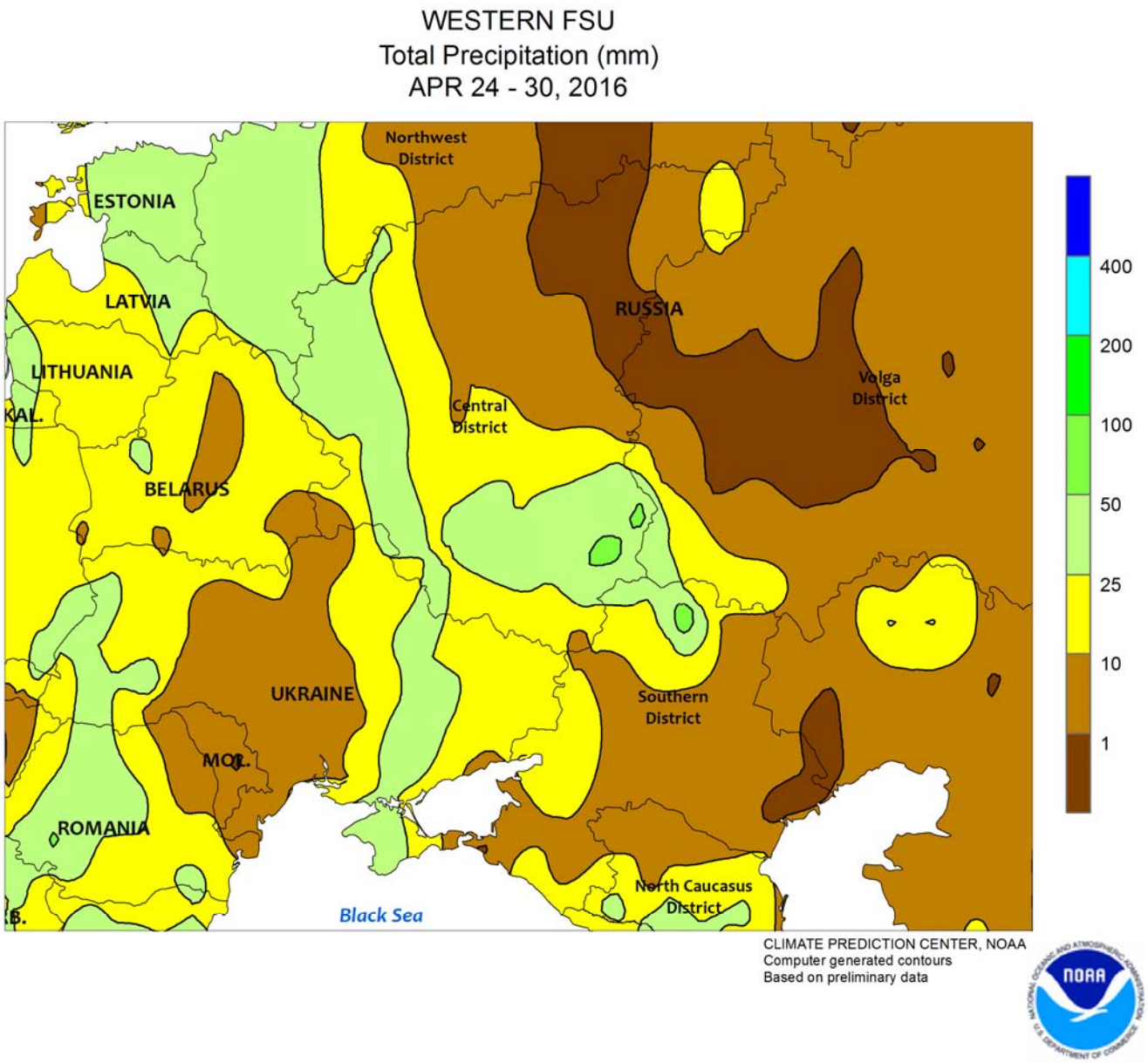

WESTERN FSU

Additional widespread showers sustained favorable soil moisture supplies for vegetative to early-reproductive winter wheat, though fieldwork was able to proceed later in the period. A strong area of high pressure over northern-most portions of the region caused disturbances to stall, resulting in widespread showers and thunderstorms (10-80 mm) over Belarus, Ukraine, as well as western and southern Russia. The rainfall maintained adequate to abundant soil moisture for vegetative winter grains in the north and wheat approaching or into the heading stage of development in warmer southern growing areas. Temperatures averaged near to above normal, facilitating a faster-than-normal pace of winter crop development over southern portions of Russia and Ukraine. Despite the generally stagnant weather pattern, drier conditions during the latter half of the week allowed producers to resume summer crop planting.

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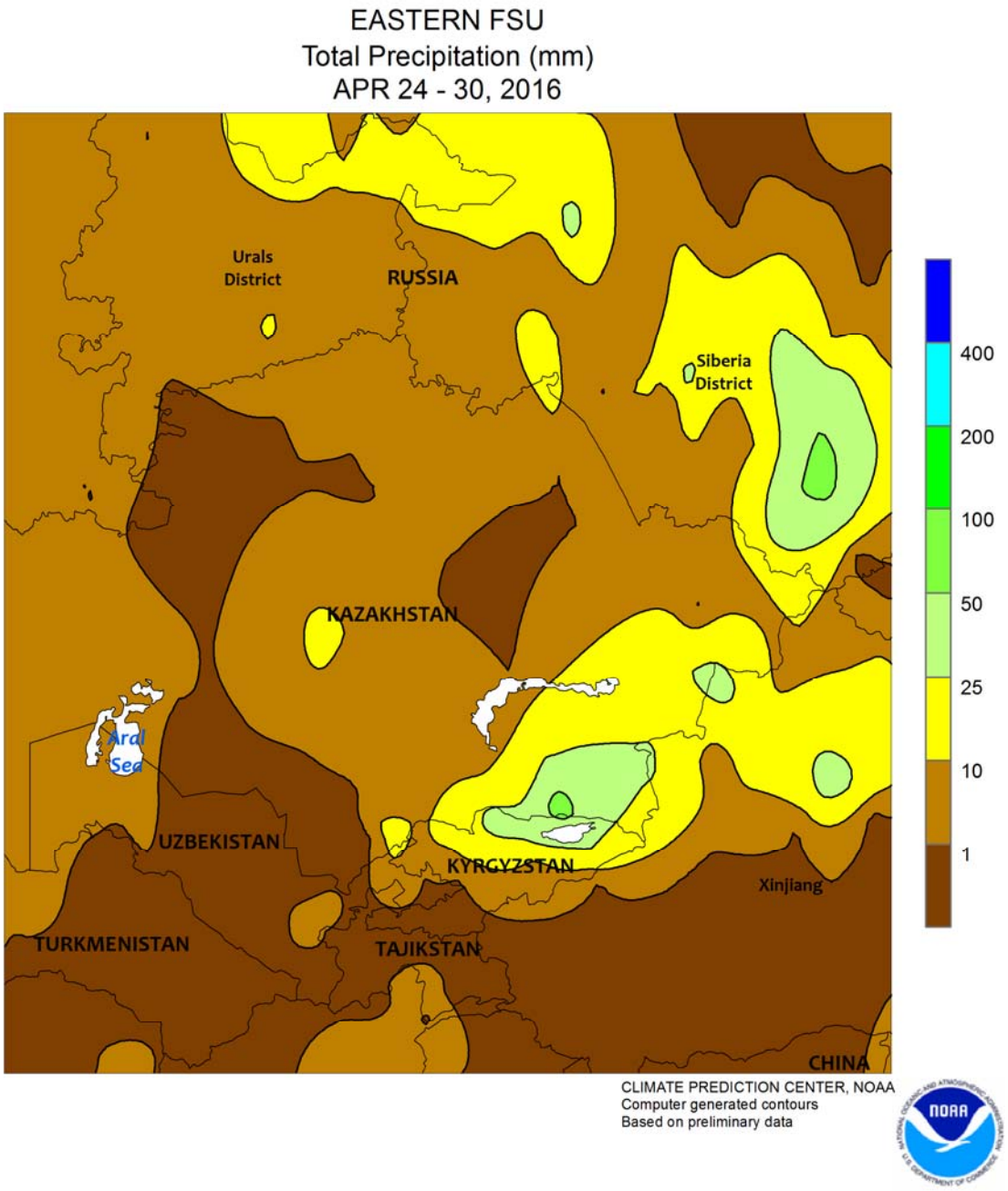

EASTERN FSU

Mild, sunny weather prevailed over much of the region, promoting spring wheat planting and early crop emergence in the north and advancing winter wheat development in southern growing areas. Temperatures across northern Kazakhstan and neighboring portions of central Russia cooled notably from last week's unseasonable warmth, though readings averaged near to 3°C above normal. The heaviest rain (10-65 mm) was confined to northern and eastern portions of the spring wheat belt, with most locales reporting less than 10 mm for the week. Farther south, sunny skies and above-normal temperatures (3-5°C above normal) over central and eastern Uzbekistan accelerated irrigated winter wheat into or through the reproductive stages of development.

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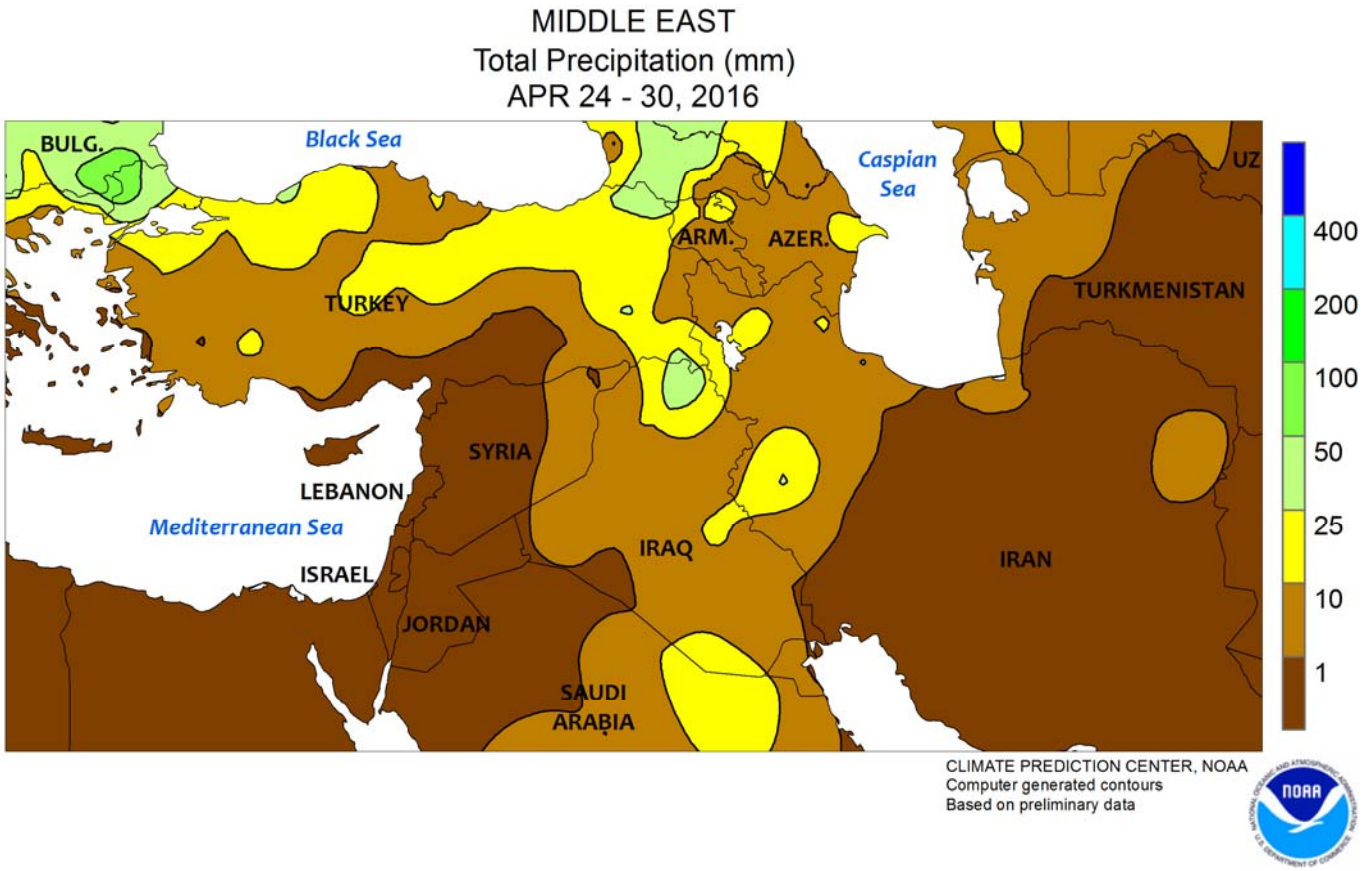

MIDDLE EAST

Warm weather prevailed across the region, with showers in the north contrasting with mostly dry conditions in central and southern growing areas. Following last week's brief freeze in central Turkey, warmer-than-normal weather (up to 3°C above normal) resumed. The warmth allowed producers to assess any potential damage from last week's short-lived cold snap and continued this season's much-faster-than-normal pace of winter wheat development. Showers (1-20 mm) provided some soil moisture to Turkish winter grains, but the country's main wheat areas continued to exhibit poor vegetative health in satellite-derived imagery primarily due to autumn and winter dryness. Meanwhile, light to moderate showers (2-25 mm) over northern Iraq and northwestern Iran maintained good to excellent winter grain prospects. From the eastern Mediterranean Coast into central and southern Iran, dry, hot weather (middle and upper 30s degrees C, but lower 40s in southern Iraq) accelerated winter grain maturation, drydown, and harvesting.

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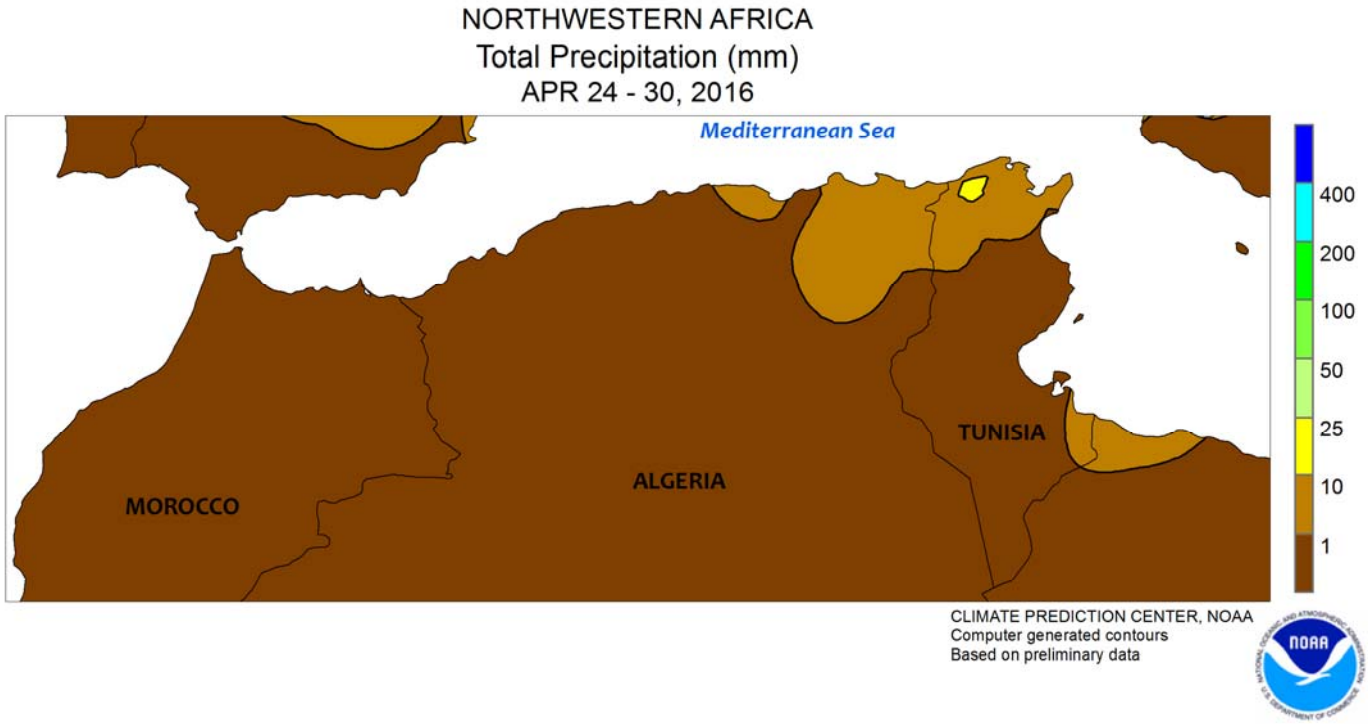

NORTHWESTERN AFRICA

Sunny, warm weather prevailed for much of the week, though showers developed in northeastern growing areas at the end of the period. In Morocco, dry, warm conditions promoted winter wheat maturation and harvesting. In Algeria and Tunisia, sunny skies and temperatures up to 3°C above normal accelerated winter grains toward or into the filling stage of development before the arrival of late-week clouds and showers (2-12 mm). Winter crop prospects remained good to excellent in central and eastern portions of northern Africa's wheat belt, with timely rain during April enhancing crop yield potential.

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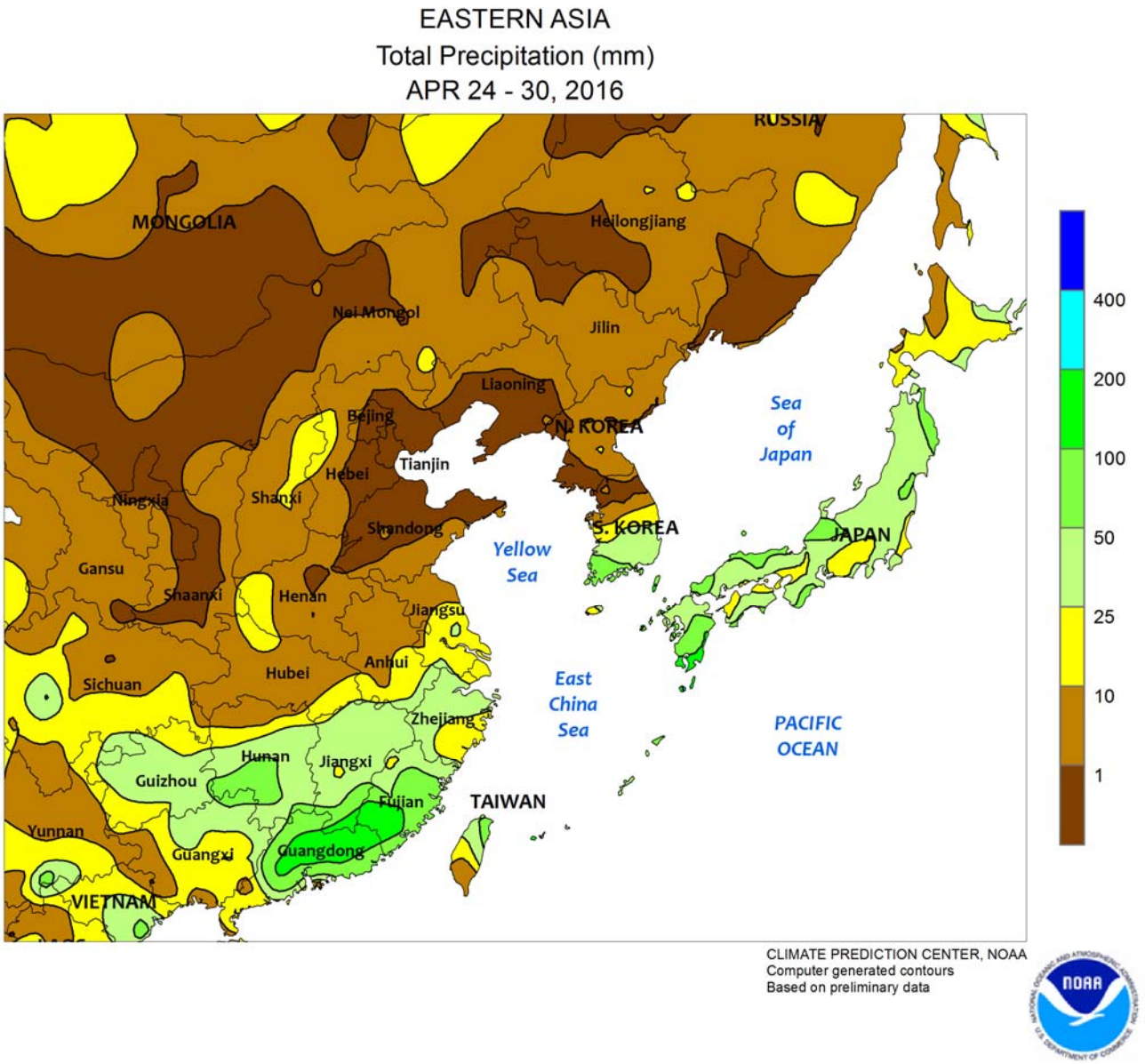

EASTERN ASIA

Light, early-week showers (less than 10 mm) overspread portions of the North China Plain and middle Yangtze Valley. The rainfall maintained good topsoil moisture for reproductive wheat in all but Shandong and southeastern Hebei, where dryness persisted. Even with the recent rainfall, though, soil moisture in the bulk of the rooting zone remained limited in the absence of supplemental irrigation. In addition, daytime temperatures have occasionally reached into the lower 30s (degrees C) over the last few weeks, increasing water demands. In the Yangtze Valley, the drier weather improved conditions for maturing rapeseed, while spring-sown crops remained well watered from downpours in the preceding weeks. The heaviest showers for the week were reported in southern provinces, where amounts of 25 to over 100 mm maintained good soil moisture and water supplies for vegetative to reproductive rice. Meanwhile in northeastern China, some corn and soybean planting was likely in the warmer southern sections, but occasional frost was still prevalent in the northern growing areas, preventing planting from occurring.

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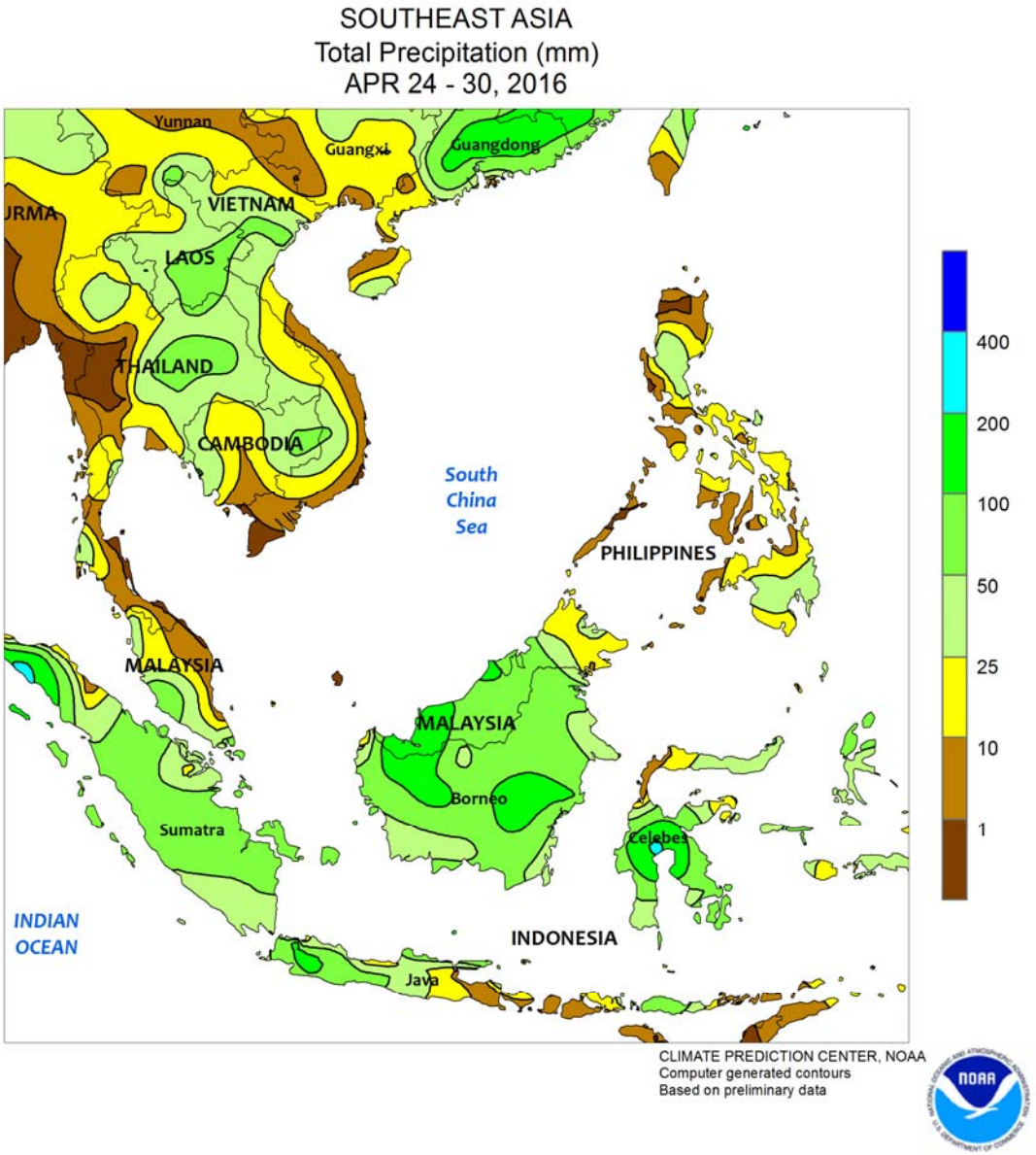

SOUTHEAST ASIA

Pre-monsoon showers (25-50 mm) in eastern Thailand boosted soil moisture and water supplies, as fieldwork continued ahead of the summer growing season. Favorable showers (25-50 mm) were also reported in northern Vietnam for the spring variety rice grown there. Meanwhile, seasonably dry weather occurred in southern Vietnam, promoting seeding and transplanting of summer rice. In the Philippines, light to moderate rainfall (10-25 mm or more) prevailed across the country, as farmers prepared for the summer growing season and the onset of seasonal rainfall. To the south, much of the region's rainfall remained in Indonesia, but a discernable shift in seasonal showers was occurring. Drier weather encroached into eastern Java, Indonesia, as rainfall increased in oil palm areas of Malaysia. The tropical showers (50-100 mm) maintained favorable soil moisture for oil palm in Indonesia and kept water supplies in western Java at good levels for dry-season rice sown in the summer.

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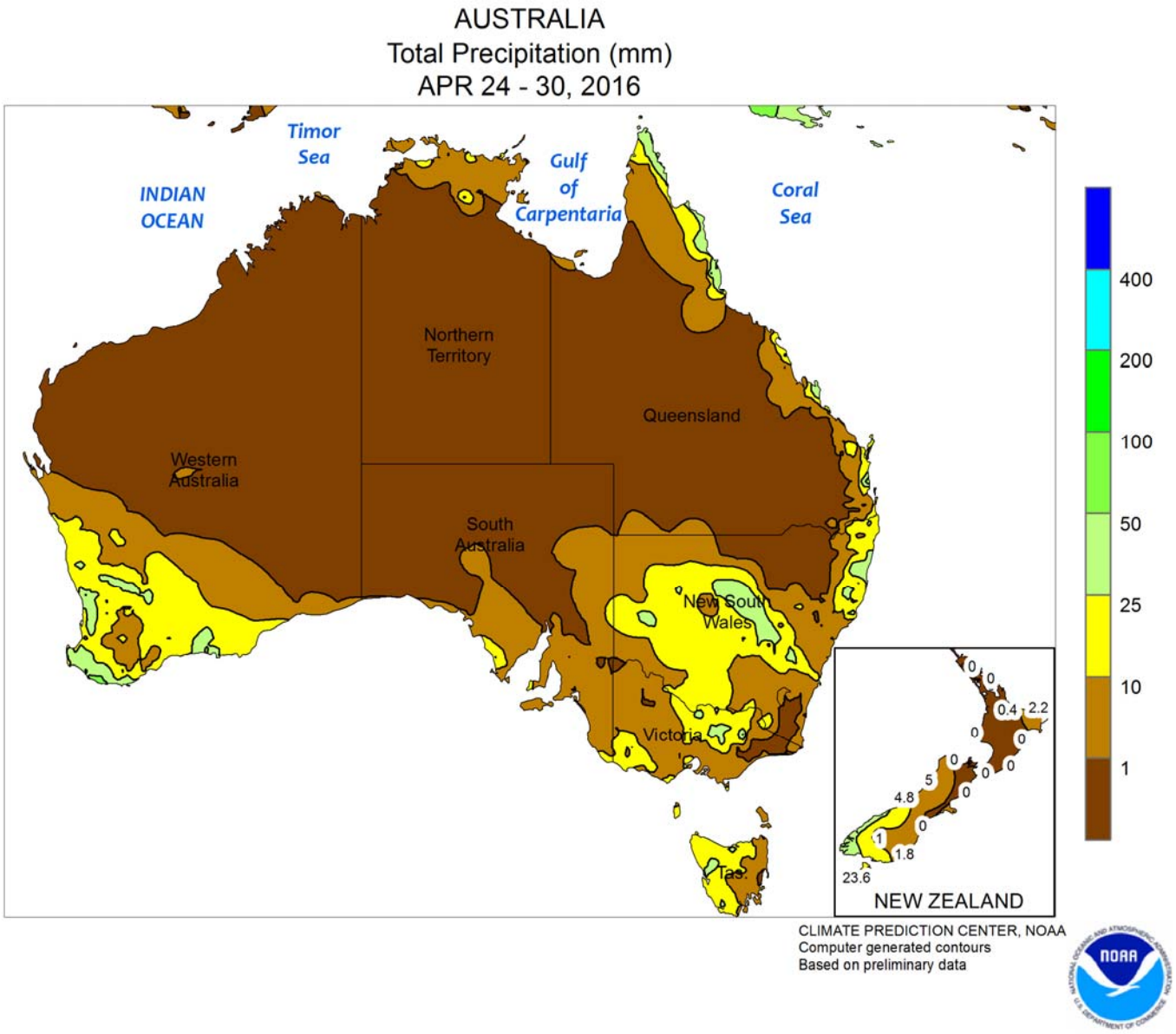

AUSTRALIA

In southern Queensland and extreme northern New South Wales, dry, unseasonably warm weather allowed cotton and sorghum harvesting to proceed without delay. In contrast, widespread showers (10-50 mm) overspread the remainder of New South Wales and most of Victoria, hampering fieldwork but providing a much needed boost in topsoil moisture in advance of winter crop planting. Similarly, scattered showers (5-25 mm) in South Australia helped condition topsoils prior to wheat, barley, and canola sowing. Elsewhere in the wheat belt, rain (5-25 mm) in Western Australia maintained adequate to abundant soil moisture, promoting germination and emergence of the earliest planted winter grains and oilseeds. Winter crop planting is typically in full swing in May and June in Australia. However, some winter grains and oilseeds can be sown as early as April and as late as July, depending upon crop varieties and how favorable the weather is early in the growing season. Temperatures in Western Australia were generally seasonable, while in southern and eastern Australia temperatures averaged about 2 to 5°C above normal.

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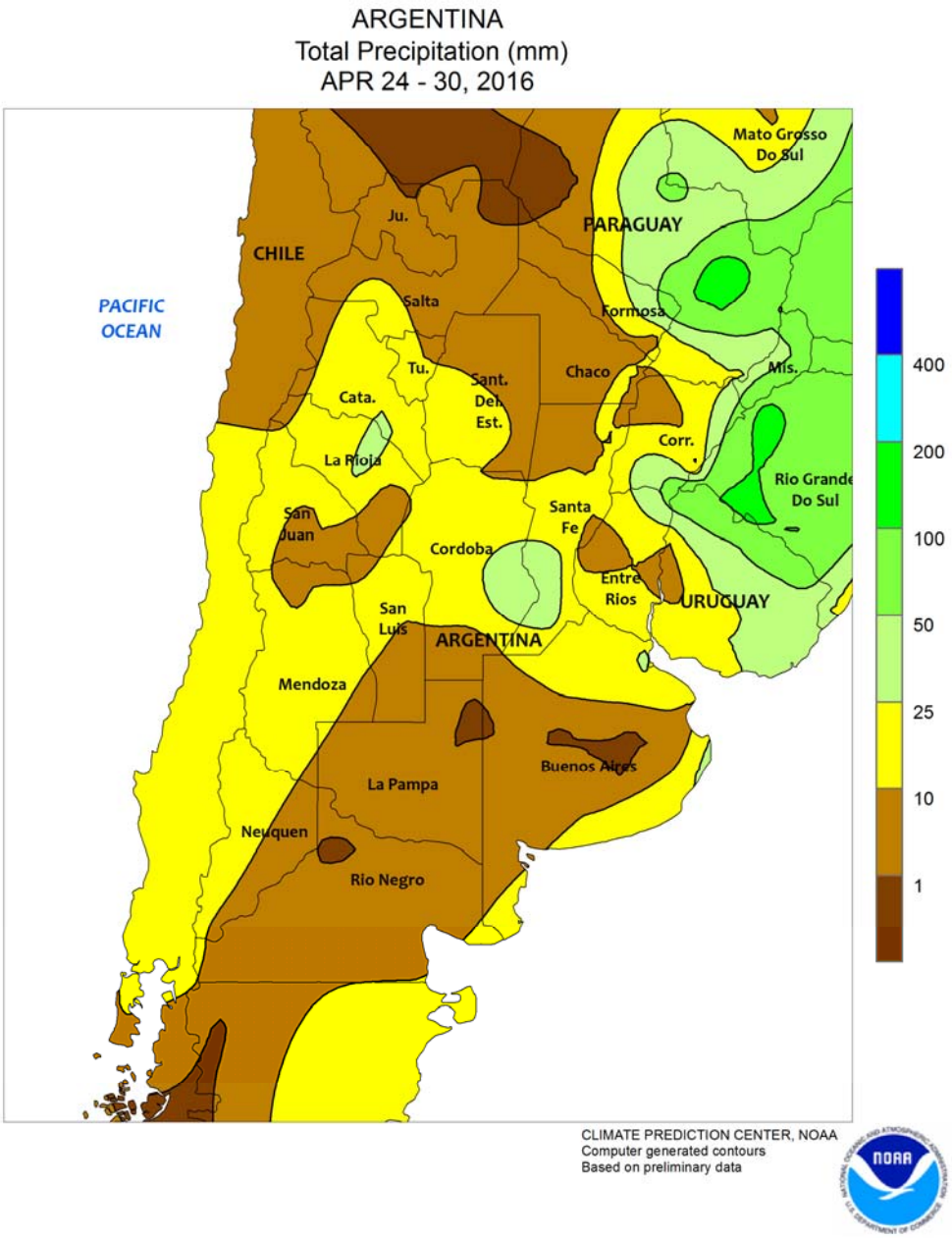

ARGENTINA

Following an extended period of excessive wetness, drier weather developed over key corn and soybean areas of eastern Argentina. Rainfall totaled 5 to 25 mm over flooded sections of Santa Fe and Entre Rios, with a few isolated locations recording more than 25 mm. The drier weather allowed flood waters to subside, although an extended period of dryness will be required before widespread harvesting can begin. Mostly dry weather also prevailed elsewhere, with virtually no rain falling over large sections of La Pampa and Buenos Aires; showers were also light in the northwest (notably Salta and Chaco). The dryness in southern and northwestern areas supported corn and soybean harvesting and improved conditions for open boll cotton. Weekly average temperatures were 3 to 5°C below normal throughout the region, with nighttime lows falling below freezing over a large section of the southwest, extending northward into central Cordoba. However, due to the lateness of the season little negative impact on maturing crops was likely. Daytime highs failed to reach 20°C in the coolest parts of the southwest, with daytime highs in the 30s (degrees C) confined to Formosa and northern Chaco. According to Argentina's Ministry of Agriculture, corn and soybean harvesting was 19 and 24 percent complete, respectively, as of April 28. In 2015, corn was 32 percent harvested and soybeans 60 percent. This year's lack of progress and reported acreage losses are attributable to the heavy rain that has fallen recently.

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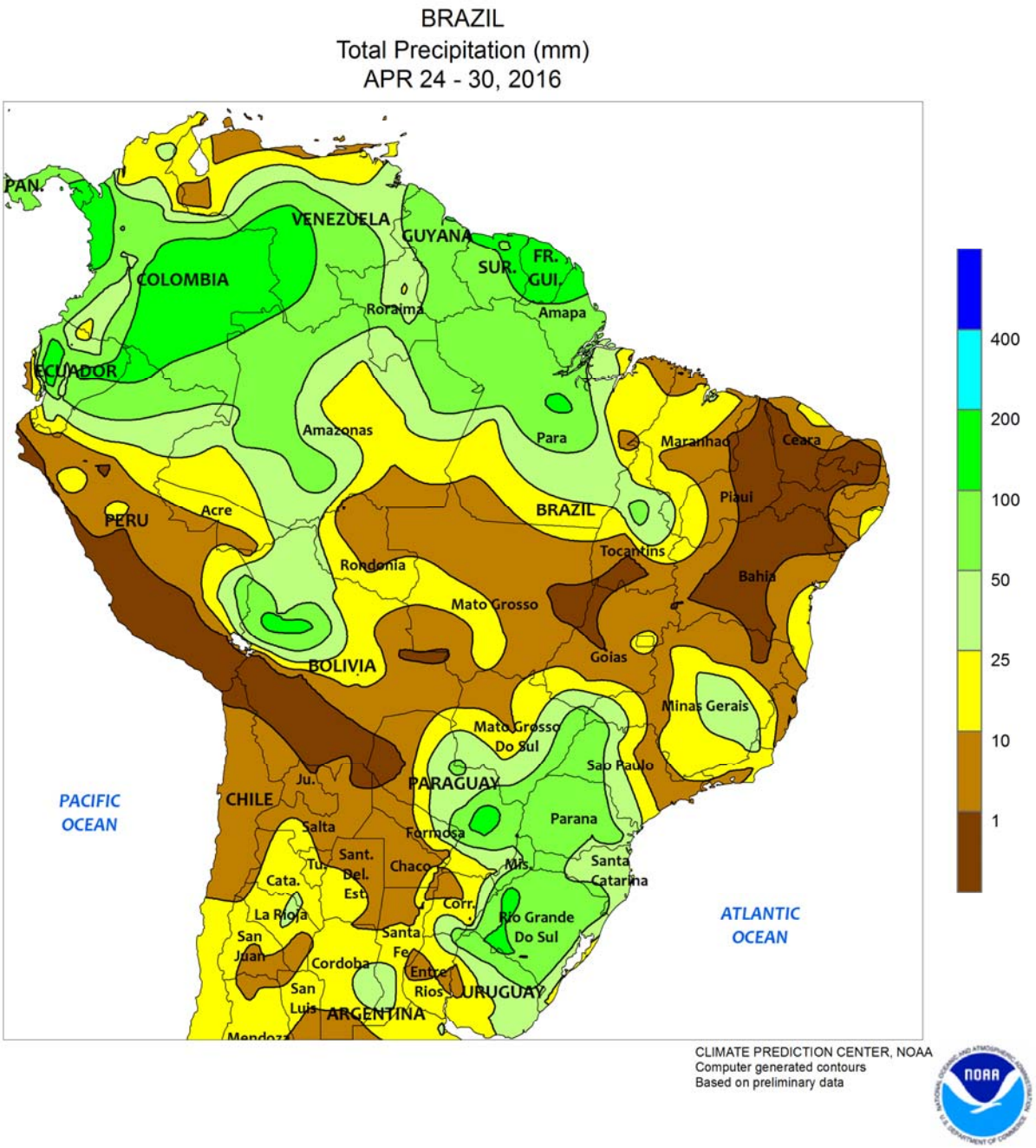

BRAZIL

Warmth and dryness dominated a large section of central Brazil, reducing moisture for second-crop corn and cotton. Little to no rain fell from northern and eastern Mato Grosso eastward through Bahia, including most of Goias and Tocantins, as well as northern parts of Mato Grosso do Sul. Although the rainy season typically ends in the region in late April or early May, the weather has been trending dry for several weeks and more rain is needed to ensure the current yield potential of secondary row crops. Weekly temperatures averaged near to above normal in these dry areas, with daytime highs reaching 35°C on several days. In contrast, intensifying rain ended a drying trend over southern farming areas. Rainfall totaled more than 25 mm over Parana and nearby locations in southern Mato Grosso do Sul and Sao Paulo, with somewhat higher amounts (25-50 mm, locally higher) in Rio Grande do Sul and farming areas in Paraguay. Weekly average temperatures were near to below normal from Mato Grosso to Rio Grande do Sul, with patchy frost recorded in some of the higher elevations in Santa Catarina. Daytime highs reached the lower 30s (degrees C) on several days in some of the warmer northern locations.

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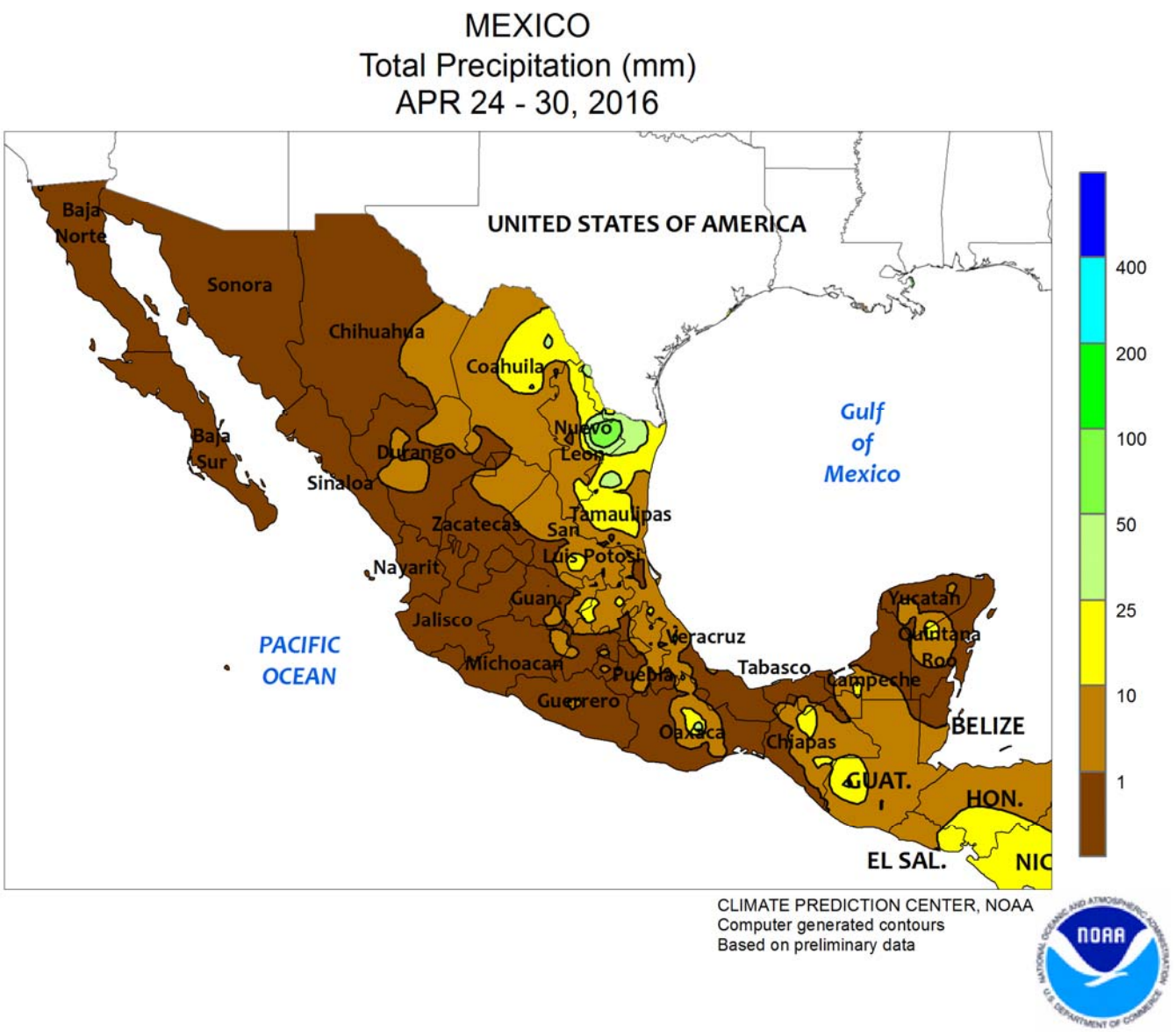

MEXICO

Following last week's beneficial rain, drier weather returned to eastern sections of the southern plateau, spurring planting of corn and other rain-fed summer crops. Little to no rain was recorded in and around Puebla; the dryness extended from northern Oaxaca northward through Veracruz, encompassing most major sugarcane areas. Unseasonable dryness also dominated the southern Pacific Coast and the southeast, limiting moisture for planting rain-fed crops. In contrast, beneficial rain (10-25 mm, locally exceeding 50 mm) continued in the northeast (notably Tamaulipas and Nuevo Leon), boosting moisture for immature winter sorghum. However, unseasonable warmth (daytime highs reaching the upper 30s degrees C) maintained high crop moisture demands in the northeast, while advancing crops rapidly toward maturation. Meanwhile, seasonably dry weather dominated western agricultural areas. In the northwest (Baja Norte, Sonora, Chihuahua, and Sinaloa), conditions favored drydown and harvesting of winter wheat and corn. In western sections of the southern plateau (notably Jalisco and Michoacan), farmers awaited the onset of seasonal rain to begin planting corn and other rain-fed summer crops.

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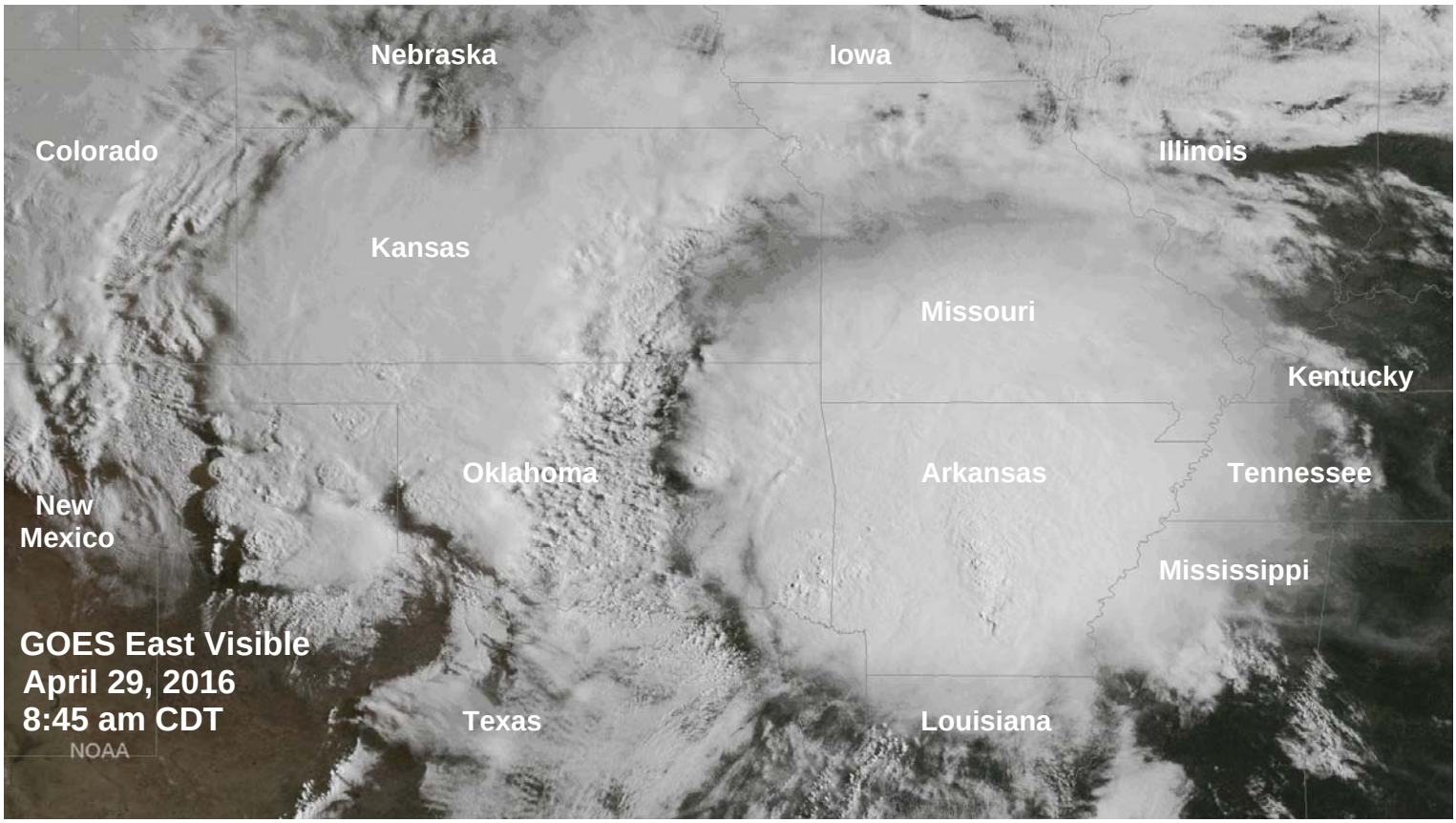

During the last 5 days of April, multiple rounds of heavy precipitation fell across the mid-South and environs. North Little Rock, AR, received 5.04 inches of rain during a 24-hour period on April 29-30. Prior to this event, North Little Rock's wettest 24-hour period in April had occurred on April 29, 2006, when 4.43 inches fell. Widespread severe weather, including isolated tornadoes, accompanied the heavy rain. According to preliminary reports, more than five dozen tornadoes were spotted across the central and southern Plains, mid-South, and lower Midwest from April 26-30. The late-month surge in severe weather boosted the nation's preliminary April tornado count to 109. Farther west, late-season snowfall blanketed the Rockies and adjacent High Plains, as well as the Intermountain West. April 26-30 snowfall totals topped the 10-inch mark in Wyoming locations such as Casper (11.3 inches) and Cheyenne (10.3 inches). In Colorado, April 28-30 snowfall included 8.0 inches in Colorado Springs and 3.5 inches in Denver.

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