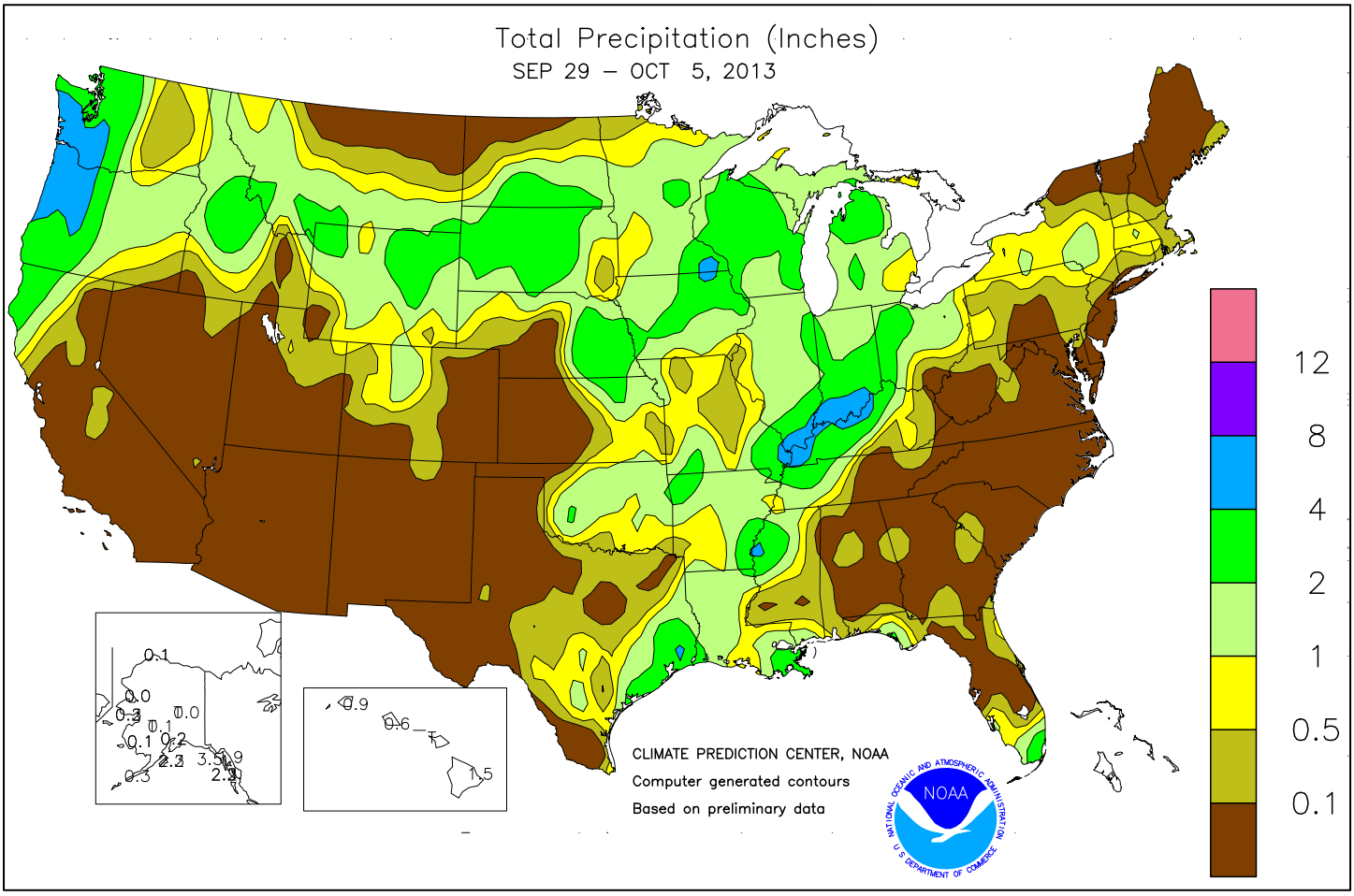
Volume 100, No. 41 http://www.usda.gov/oce/weather October 21, 2013

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

September 29 - October 5, 2013

Highlights provided by USDA/WAOB

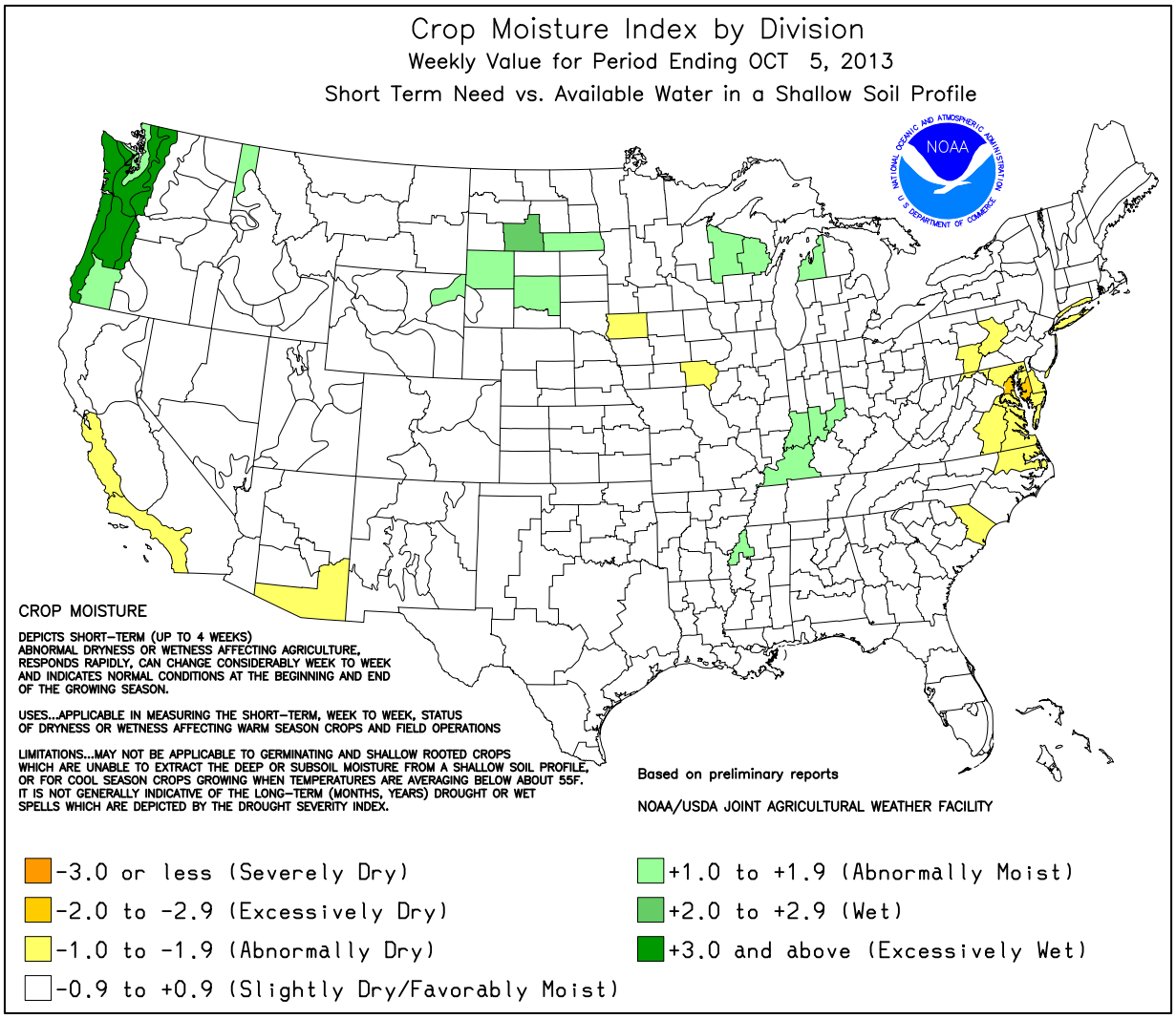
An early-season blizzard blasted the **Black Hills** and neighboring areas with wind-driven snow, causing significant hardship for livestock. Fieldwork was halted in a much broader area stretching from the **Plains to the East Coast**, as heavy rain in the vicinity of a cold front soaked many areas. Although Tropical Storm Karen dissipated on October 6 before reaching the **central Gulf Coast**, moisture originating in the tropics contributed to the heavy precipitation associated with the slow-moving storm and its attendant cold front. In advance of the storm, an

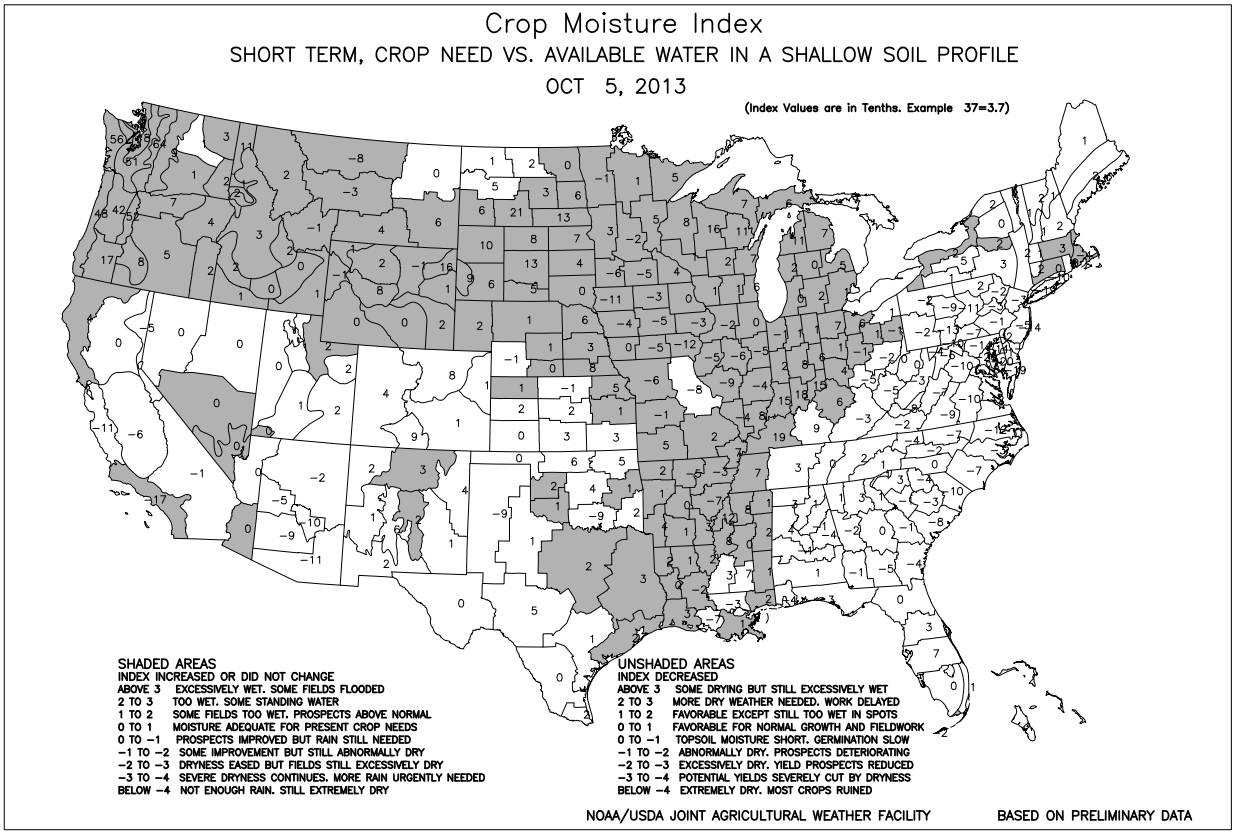
(Continued on page 5)

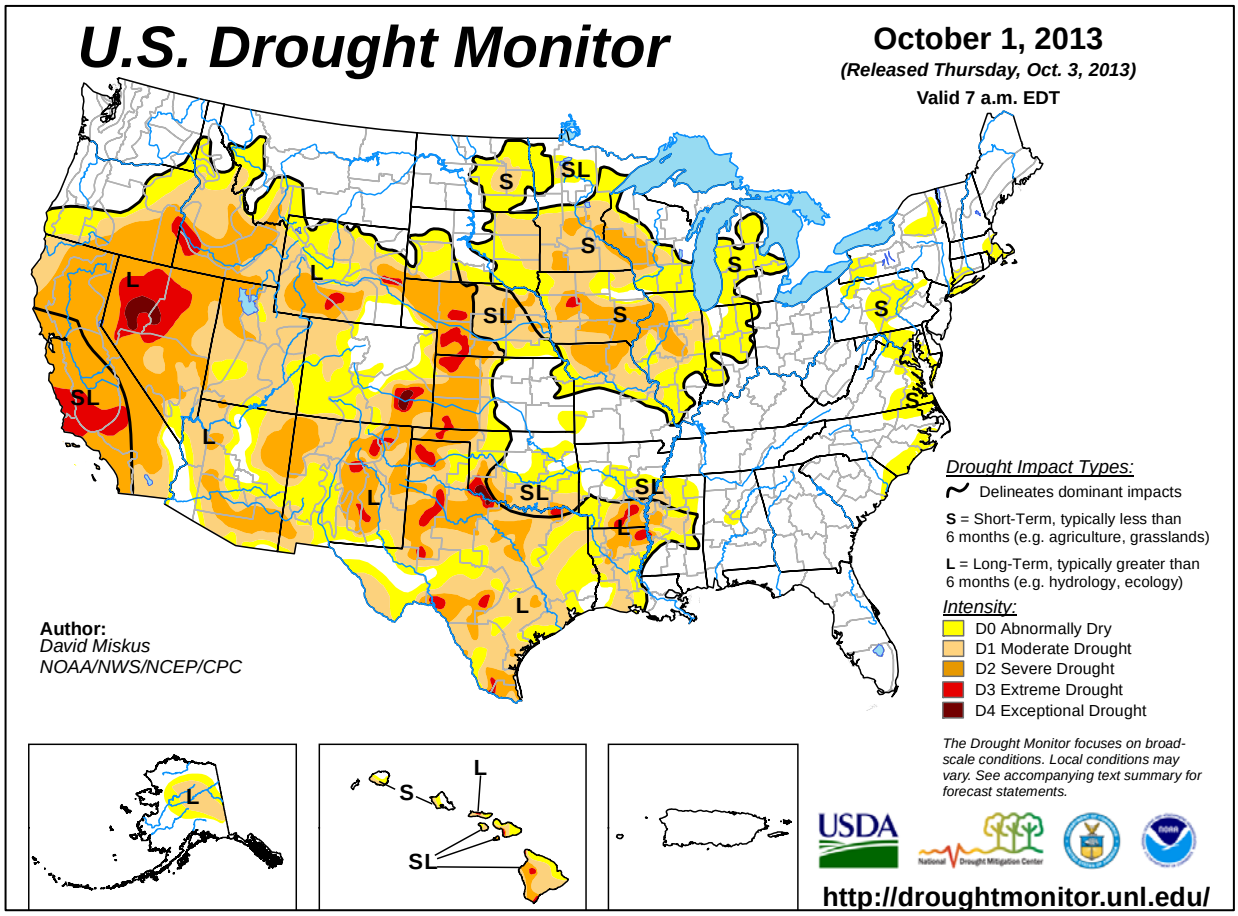
Contents

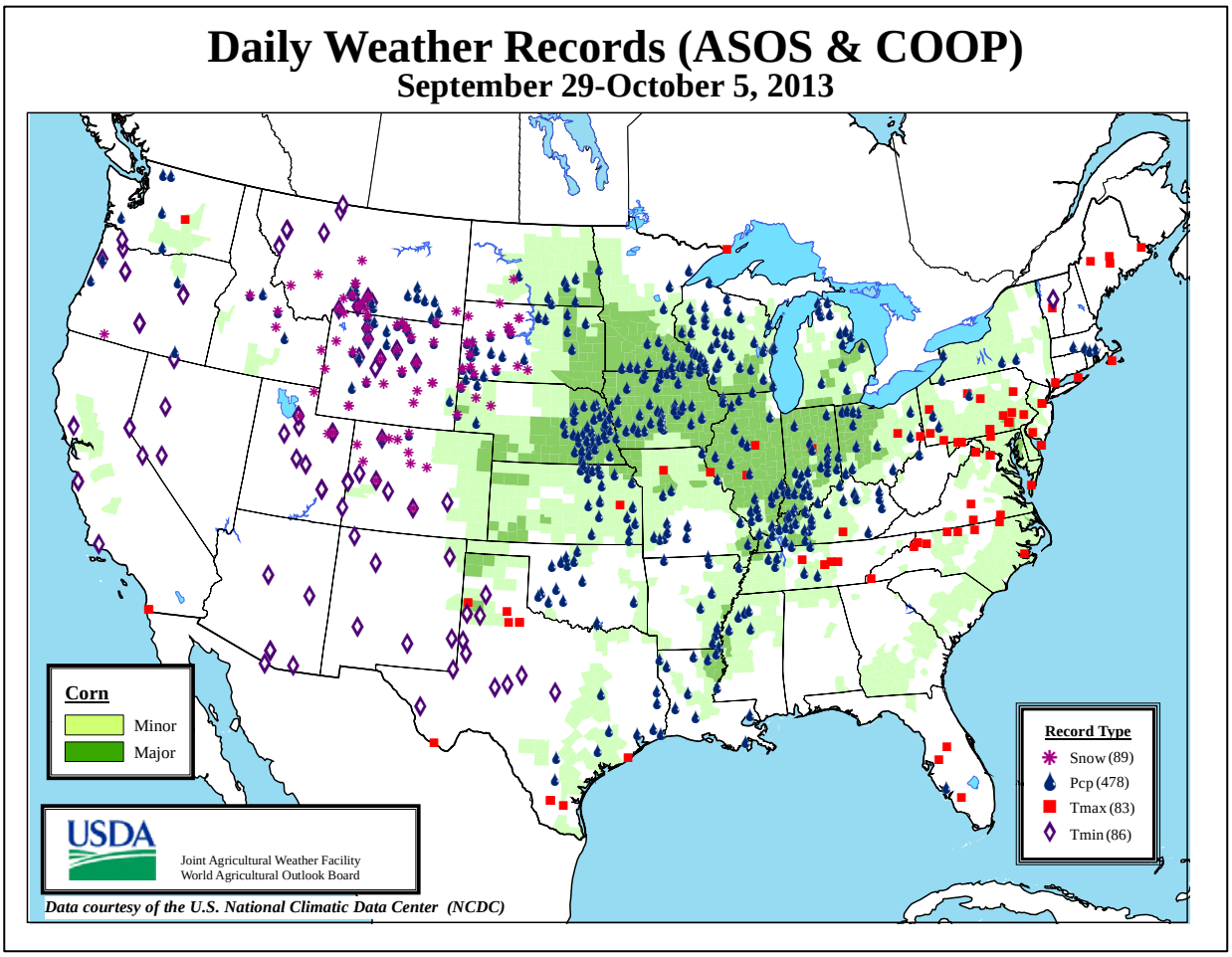
Due to the federal government shutdown, NASS reports are unavailable for this issue. Publication of the reports will resume with issue 43.

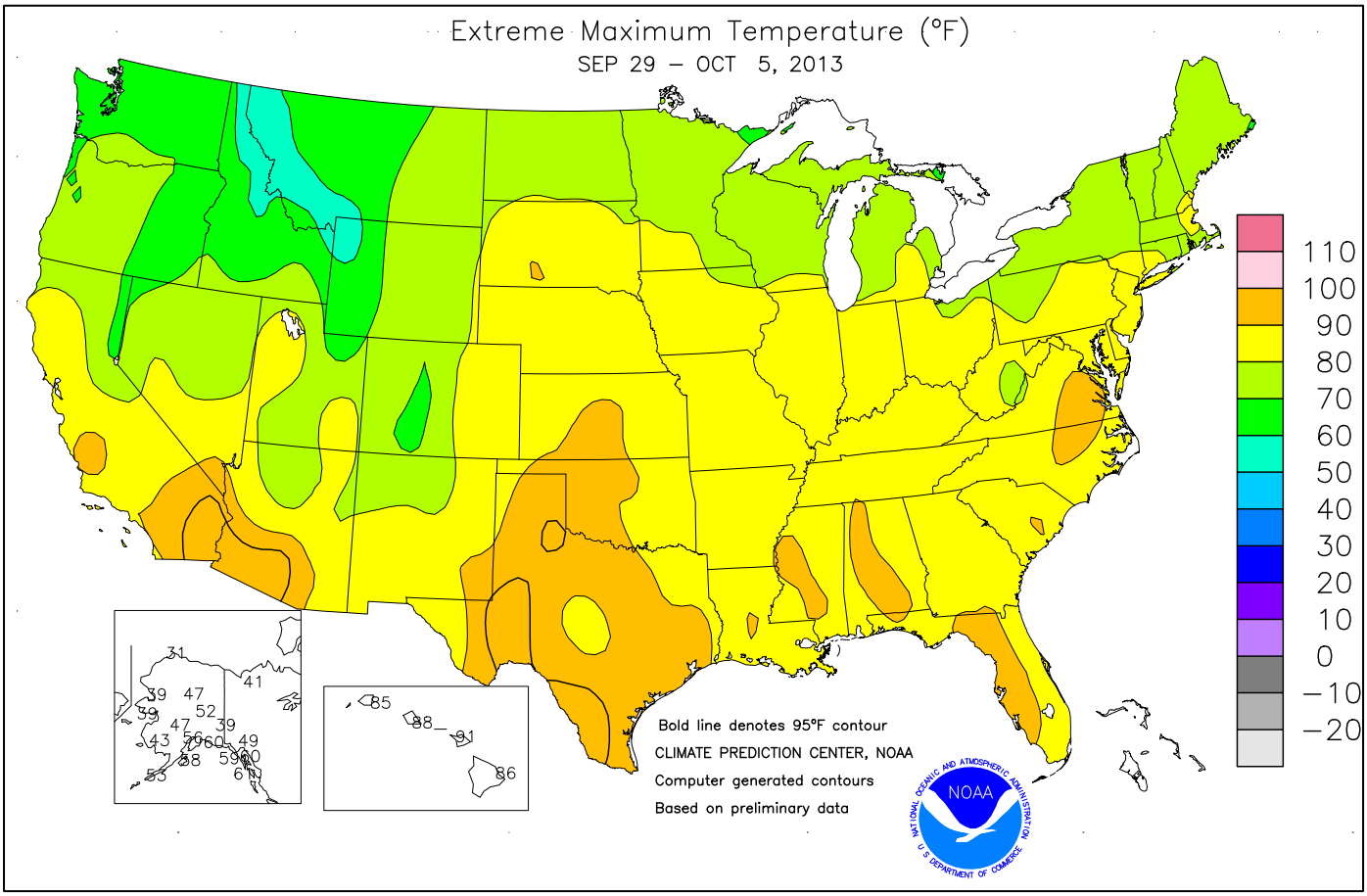
Crop Moisture Maps 2
October 1 Drought Monitor & Record Reports 3
Extreme Maximum & Minimum Temperature Maps 4
Temperature Departure Map 5
Growing Degree Day Maps 6
National Weather Data for Selected Cities 8
International Weather and Crop Summary 11
Bulletin Information &
October 6 Satellite Image of Black Hills Snow Cover 24

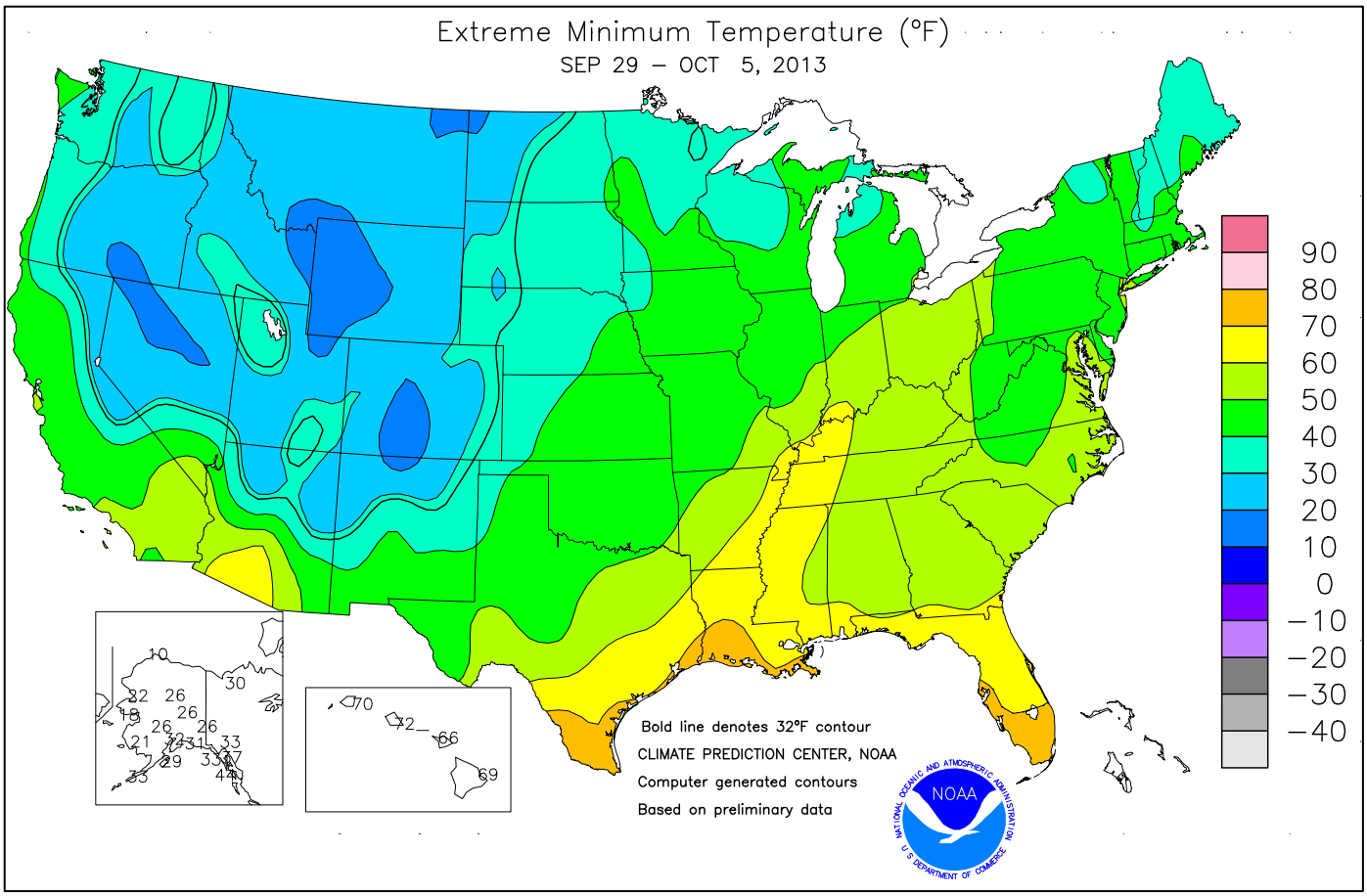

Crop Moisture Index by Division
Weekly Value for Period Ending OCT 5, 2013
Short Term Need vs. Available Water in a Shallow Soil Profile
NOAA
CROP MOISTURE
DEPICTS SHORT-TERM (UP TO 4 WEEKS) ABNORMAL DRYNESS OR WETNESS AFFECTING AGRICULTURE, RESPONDS RAPIDLY, CAN CHANGE CONSIDERABLY WEEK TO WEEK AND 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 reports
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
-3.0 or less (Severely 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 +2.9 (Wet)
+3.0 and above (Excessively Wet)


Crop Moisture Index
SHORT TERM, CROP NEED VS. AVAILABLE WATER IN A SHALLOW SOIL PROFILE
OCT 5, 2013
(Index Values are in Tenths. Example 37=3.7)
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. STILL 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. MOST CROPS RUINED
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
BASED ON PRELIMINARY DATA

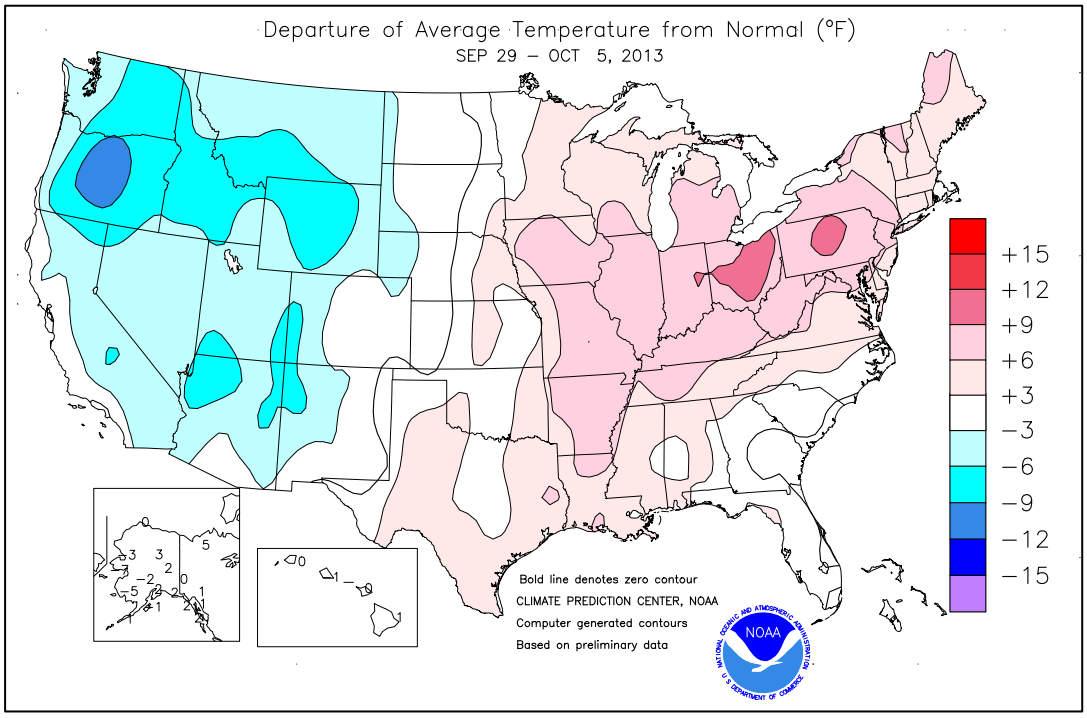

U.S. Drought Monitor
October 1, 2013
(Released Thursday, Oct. 3, 2013)
Valid 7 a.m. EDT
Author:
David Miskus
NOAA/NWS/NCEP/CPC
Drought Impact Types:
Delineates dominant impacts
S = Short-Term, typically less than 6 months (e.g. agriculture, grasslands)
L = Long-Term, typically greater than 6 months (e.g. 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.
USDA
http://droughtmonitor.unl.edu/


Daily Weather Records (ASOS & COOP)
September 29-October 5, 2013
Corn
Minor
Major
Record Type
Snow (89)
Pcp (478)
Tmax (83)
Tmin (86)
USDA
Joint Agricultural Weather Facility
World Agricultural Outlook Board
Data courtesy of the U.S. National Climatic Data Center (NCDC)


Extreme Maximum Temperature (°F)
SEP 29 – OCT 5, 2013
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 data
NOAA


Extreme Minimum Temperature (°F)
SEP 29 – OCT 5, 2013
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 data
NOAA

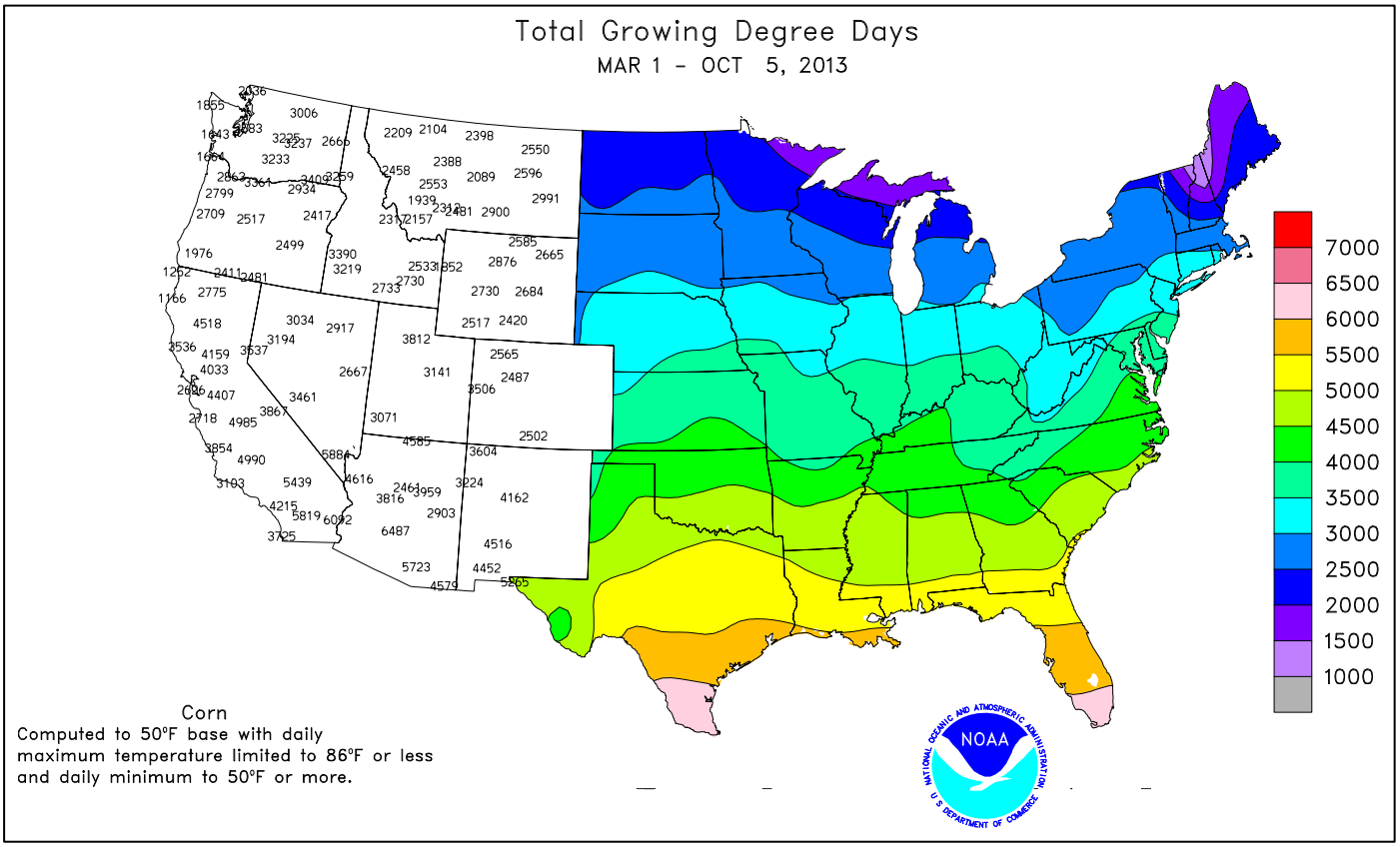
(Continued from front cover)
extended period of warm, dry weather promoted summer crop maturation, winter wheat planting, and harvest activities. However, the open window for fieldwork abruptly ended with the cold front's approach and passage. In addition, windy conditions associated with the front led to concerns about possible lodging of maturing **Midwestern** crops. Weekly temperatures were as much as 10°F above normal in the eastern Corn Belt and northern Mid-Atlantic region, but averaged at least 5 to 10°F below normal across the interior Northwest. Late-week temperatures dipped below 32°F across the **Rockies**, **Intermountain West**, and the **northern High Plains**. However, **Midwestern** corn and soybeans were spared a season-ending freeze, affording immature crops additional time to develop. In contrast to pre-frontal warmth, a winter-like chill in the **West** resulted in several daily-record lows. The cool spell slowed the emergence and development of **Northwestern** winter wheat. Before the colder air arrived, early-week downpours capped the wettest September on record for several locations in the **Pacific Northwest**.

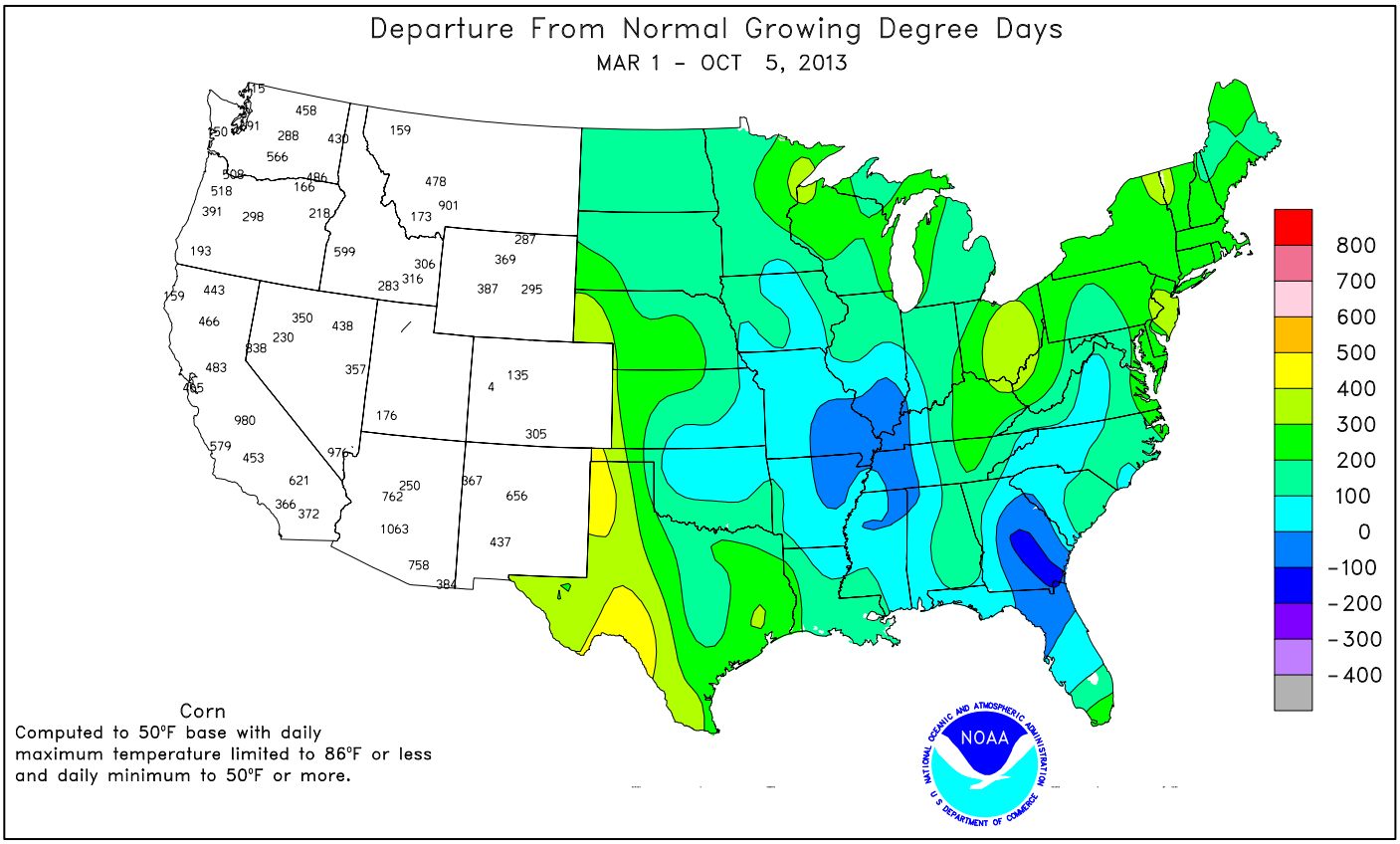


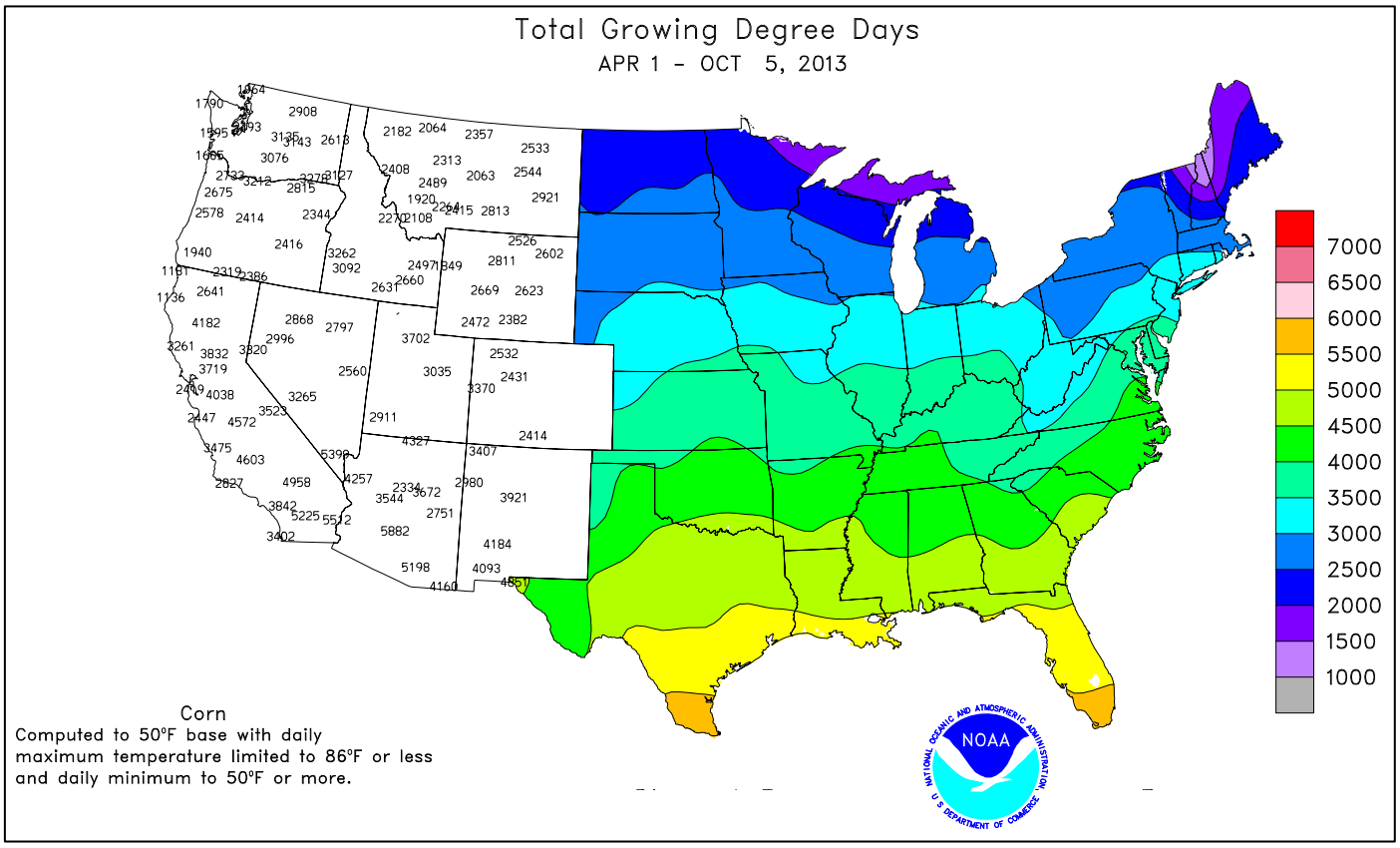
Early in the week, heavy precipitation continued to hammer the **Pacific Northwest**. Record-setting totals for September 29 included 2.41 inches in **Astoria, OR**, and 2.36 inches in **Crescent City, CA. Astoria** completed its wettest September on record, with a monthly total of 10.70 inches, or 500 percent of normal (previously, 8.66 inches in 1906). Records for September rainfall were also established in numerous additional **Northwestern** locations, including **Olympia, WA** (9.36 inches; previously, 7.59 inches in 1978), and **Eugene, OR** (7.08 inches; previously 5.21 inches in 1927). During a 72-hour period ending on September 29, rainfall totals of 10 to 15 inches were noted in parts of the **Cascades**. For example, **June Lake, WA**, near **Mt. St. Helens**, received 15 inches. Meanwhile, high winds swept across the **nation's northern tier**. In **Oregon**, hurricane-force wind gusts were clocked on September 29 in several locations, including **Mary's Peak** (85 mph) and **Garibaldi** (75 mph). On the same date, a gust to 108 mph was recorded on **Wyoming's Mt. Coffin**, while a September-record gust to 60 mph was reported in **Lewistown, MT.** Elsewhere in **Montana**, **Great Falls** (64 mph on September 30) experienced its highest September wind gust since 1984. In **Havre, MT**, the average wind speed of 23.2 mph on the 30th was a September record; previously, the windiest day had occurred on September 7, 1984, with an average of 22.3 mph. High winds also raked parts of **southern California**, where **Laguna Peak** was hit with a late-week gust to 90 mph. Farther east, locally heavy rain developed across the **nation's mid-section** in early October, while tropical showers soaked **southern Florida**. On October 2, daily-record rainfall totals were established in locations such as **Miami, FL** (5.53 inches), and **Grand Island, NE** (2.07 inches). The following day was the wettest October day on record in **Hastings, NE. Hastings** received 3.49 inches of rain on October 3, surpassing the 2.95-inch total that occurred on October 16, 1968. It was also the wettest day in **Hastings** since August 26, 2009, when 4.09 inches fell. Meanwhile, precipitation began to change to snow in the **West**. With a 0.1-inch total on October 3, **Grand Junction, CO**, noted its second-earliest accumulation behind 3.1 inches on September 18, 1965. In the **Black Hills**, **East Rapid City, SD**, received 23.1 inches of snow on October 4-5, along with a peak wind gust to 68 mph. Elsewhere in **western South Dakota**, storm-total snowfall reached 55.0 inches in **Lead**. October 3-5 snowfall totals reached 16.2 inches in **Casper, WY**; 12.3 inches in **Lander, WY**; and 6.1 inches in **Scottsbluff, NE.** The storm also spawned more than a dozen tornadoes on October 3-4 in the middle Missouri Valley, including a late-season EF-4 twister in **Wayne and Dixon Counties in Nebraska**. That tornado, which carved a 19-mile-long path and had a maximum width of more than 1.25 miles, resulted in more than a dozen injuries. By October 4, heavy rain spread into the **upper Midwest**, with daily-record totals noted in **Mobridge, SD** (2.42 inches), and **Des Moines, IA** (2.26 inches). Even heavier rain erupted across the **lower Midwest** and **Mid-South** on October 5, when daily-record amounts reached 5.91 inches in **Louisville, KY**, and 2.26 inches in **Traverse City, MI.** Previously in **Louisville**, the wettest October day had been October 18, 2004, when 5.07 inches fell.

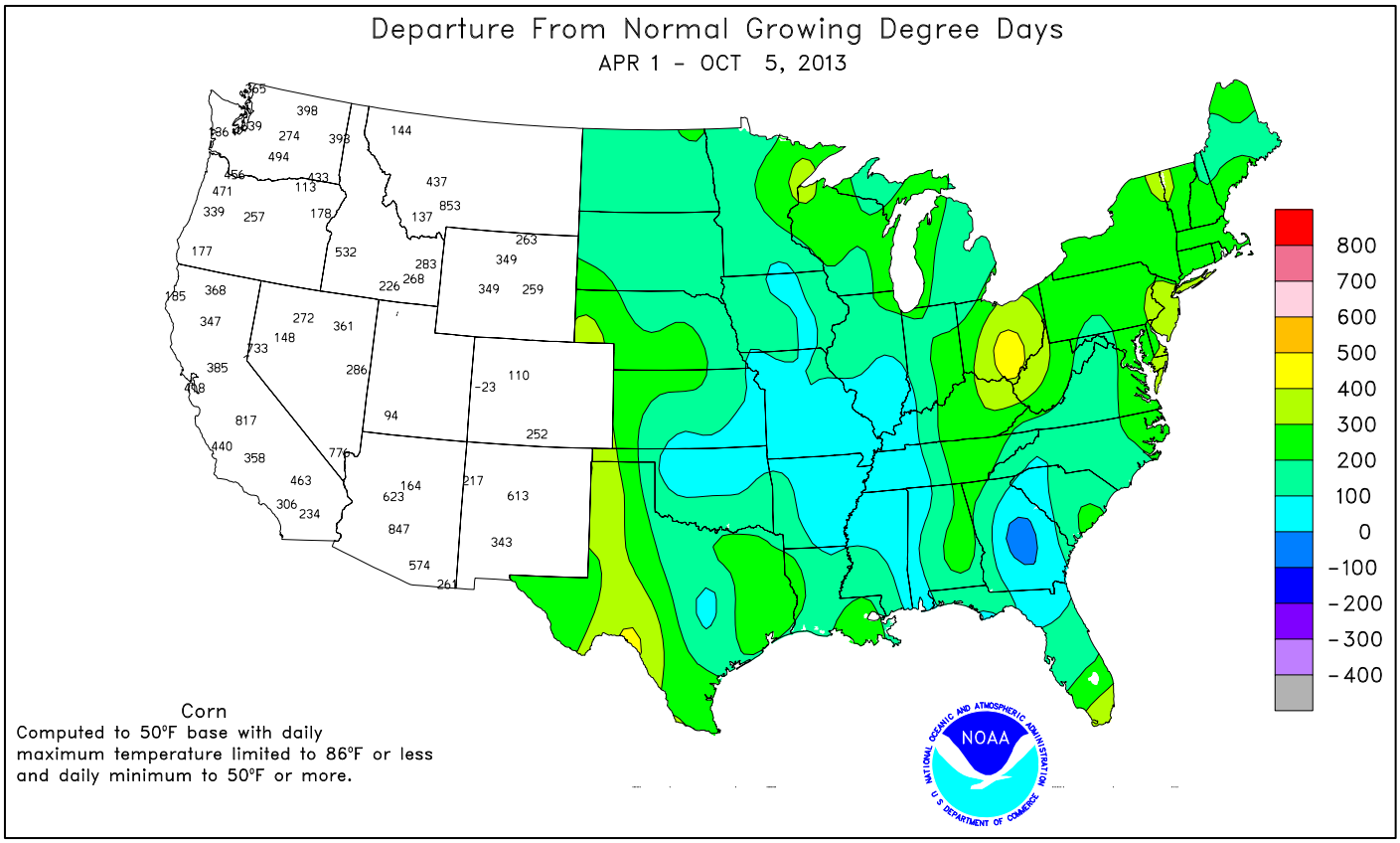
Cool weather was already in place early in the week across the **Southwest**, where record-setting lows for September 29 dipped to 40°F in **Kingman, AZ**, and 52°F in **Thermal, CA.** However, in advance of **Pacific** storminess, **Colorado Springs, CO**, posted a daily-record high of 84°F on September 30. Later, warmth spread from the **Plains to the East Coast**. By October 2, daily-record highs included 87°F at **Wallops Island, VA**, and 86°F in **Newark, NJ.** From September 27 - October 2, **Caribou, ME**, recorded 6 consecutive days with highs of 70°F or greater—its longest such warm spell so late in the year. **Wallops Island** (90°F on October 5) and **Newark** (89°F on October 4) both tallied even higher readings—and daily-record highs—later in the week. Other record-setting highs for October 5 included 92°F in **Salisbury, MD**, and 90°F at **Virginia's Dulles Airport**. In contrast, **Grand Junction, CO**, posted consecutive daily-record lows of 31°F on October 3-4. Elsewhere in the **West**, daily-record lows for October 4 dipped to 17°F in **Cut Bank, MT**; 19°F in **Laramie, WY**; and 28°F in **Denver, CO.** Several locations—including **Cedar City, UT** (23 and 19°F), and **Lake Yellowstone, WY** (12 and 8°F)—closed with week with consecutive daily-record lows on October 4-5.

Scattered but locally heavy showers developed across parts of **Hawaii** in late September and continued into early October. For example, **Honolulu, Oahu**, netted a daily-record rainfall of 0.45 inch on September 30. The following day, **Lihue, Kauai**, received 5.41 inches, a record-setting total for October 1. Elsewhere on **Kauai**, famously wet **Mt. Waialeale** netted 15.21 inches of rain in a 72-hour period from September 30 – October 3. Farther north, cold weather persisted in **western Alaska**, while mild conditions returned to the remainder of the state. In **Nome**, colder-than-normal weather prevailed from September 17 – October 4, with temperatures averaging more than 5°F below normal during that 18-day period. Significant precipitation was confined to **southern Alaska**, where weekly rainfall reached 2.14 inches in **Kodiak** and 1.84 inches in **Juneau**.


Total Growing Degree Days
MAR 1 - OCT 5, 2013
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 - OCT 5, 2013
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 - OCT 5, 2013
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 - OCT 5, 2013
800
700
600
500
400
300
200
100
0
-100
-200
-300
-400
Corn
Computed to 50°F base with daily
maximum temperature limited to 86°F or less
and daily minimum to 50°F or more.
NOAA

National Weather Data for Selected Cities

Weather Data for the Week Ending October 5, 2013

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 SEP 1	PCT. NORMAL SINCE SEP 1	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL	BIRMINGHAM	83	64	89	58	74	5	0.01	-0.82	0.01	2.47	53	54.74	130	88	46	0	0	1	0
	HUNTSVILLE	83	63	88	57	73	6	0.01	-0.89	0.01	4.36	89	47.99	110	92	62	0	0	1	0
	MOBILE	85	70	88	63	77	4	0.38	-0.59	0.20	5.16	77	56.84	106	91	68	0	0	4	0
	MONTGOMERY	86	64	92	57	75	4	0.00	-0.79	0.00	1.48	31	44.48	103	90	47	2	0	0	0
AK	ANCHORAGE	52	37	56	32	45	3	0.20	-0.38	0.20	5.78	176	19.16	156	76	65	0	1	1	0
	BARROW	28	20	31	10	24	0	0.09	-0.02	0.04	1.47	191	6.51	183	92	77	0	7	4	0
	FAIRBANKS	45	32	52	26	38	2	0.03	-0.17	0.03	1.75	139	7.56	93	85	75	0	4	1	0
	JUNEAU	52	43	60	37	48	1	1.85	-0.15	0.79	9.81	109	50.72	125	96	89	0	0	5	2
	KODIAK	50	38	58	29	44	-1	2.20	0.16	2.05	9.77	105	49.65	92	79	66	0	1	4	1
	NOME	37	23	39	18	30	-6	0.21	-0.22	0.21	2.19	78	15.29	118	87	77	0	7	1	0
AZ	FLAGSTAFF	64	32	72	29	48	-5	0.00	-0.44	0.00	3.25	134	20.94	119	73	22	0	5	0	0
	PHOENIX	93	68	96	66	80	-2	0.00	-0.17	0.00	0.86	99	5.60	94	31	18	5	0	0	0
	PRESCOTT	75	42	81	32	59	-2	0.00	-0.35	0.00	2.29	99	10.93	70	57	13	0	1	0	0
	TUCSON	90	61	93	55	76	-1	0.00	-0.30	0.00	0.65	39	5.50	58	32	18	5	0	0	0
AR	FORT SMITH	85	66	89	50	75	6	1.03	0.18	1.03	2.53	60	37.40	116	93	58	0	0	1	1
	LITTLE ROCK	83	68	87	56	75	6	1.25	0.40	0.68	3.78	88	38.38	104	93	64	0	0	5	1
CA	BAKERSFIELD	82	56	87	53	69	-4	0.00	-0.03	0.00	0.00	0	2.36	49	52	35	0	0	0	0
	FRESNO	84	56	90	51	70	-1	0.00	-0.07	0.00	0.01	3	2.29	28	61	36	1	0	0	0
	LOS ANGELES	78	61	91	56	69	0	0.00	-0.03	0.00	0.00	0	2.64	27	79	52	1	0	0	0
	REDDING	77	57	84	51	67	-2	0.03	-0.16	0.03	1.39	224	10.69	47	50	33	0	0	1	0
	SACRAMENTO	80	55	84	46	67	-2	0.00	-0.08	0.00	0.59	140	4.50	36	67	26	0	0	0	0
	SAN DIEGO	76	62	85	58	69	-1	0.00	-0.03	0.00	0.00	0	3.38	42	76	52	0	0	0	0
	SAN FRANCISCO	73	58	80	54	66	3	0.00	-0.06	0.00	0.23	96	2.12	15	64	49	0	0	0	0
	STOCKTON	80	51	83	44	65	-5	0.01	-0.07	0.01	0.29	74	3.20	34	68	44	0	0	1	0
CO	ALAMOSA	67	28	75	18	48	-2	0.00	-0.17	0.00	2.98	295	7.87	134	73	29	0	7	0	0
	CO SPRINGS	72	41	84	25	56	1	0.03	-0.11	0.03	4.83	363	18.50	118	72	19	0	2	1	0
	DENVER INTL	68	40	82	27	54	-2	0.26	0.04	0.25	5.87	489	16.62	139	74	34	0	2	2	0
	GRAND JUNCTION	67	39	76	31	53	-7	0.38	0.16	0.27	3.47	324	9.44	136	68	37	0	1	2	0
	PUEBLO	77	43	86	29	60	1	0.00	-0.11	0.00	1.28	139	9.07	84	60	23	0	1	0	0
CT	BRIDGEPORT	75	56	83	50	66	6	0.02	-0.76	0.02	2.74	66	29.50	87	90	63	0	0	1	0
	HARTFORD	75	49	81	43	62	4	0.30	-0.59	0.28	3.89	82	41.89	119	93	51	0	0	2	0
DC	WASHINGTON	84	62	90	54	73	8	0.00	-0.83	0.00	1.23	28	29.57	97	85	43	1	0	0	0
DE	WILMINGTON	81	56	87	47	68	6	0.00	-0.85	0.00	1.94	42	38.27	113	95	46	0	0	0	0
FL	DAYTONA BEACH	85	69	87	68	77	-1	0.04	-1.26	0.04	2.02	27	37.24	93	92	60	0	0	1	0
	JACKSONVILLE	83	64	87	61	74	0	0.00	-1.44	0.00	3.59	40	39.95	90	97	61	0	0	0	0
	KEY WEST	87	78	88	76	83	1	0.00	-1.10	0.00	3.97	64	39.48	129	84	69	0	0	0	0
	MIAMI	87	75	89	73	81	0	5.67	4.04	5.53	16.12	169	58.80	123	87	59	0	0	3	1
	ORLANDO	89	71	91	70	80	1	0.00	-0.97	0.00	5.81	90	41.41	99	91	56	4	0	0	0
	PENSACOLA	85	71	87	65	78	3	0.04	-1.02	0.03	7.37	114	63.80	122	85	67	0	0	2	0
	TALLAHASSEE	87	69	91	65	78	3	0.02	-0.82	0.02	3.18	57	56.47	107	84	53	2	0	1	0
	TAMPA	90	74	91	71	82	3	0.00	-1.01	0.00	7.40	102	49.91	127	85	48	5	0	0	0
	WEST PALM BEACH	88	77	89	72	82	2	0.00	-1.49	0.00	9.11	100	56.73	118	77	57	0	0	0	0
GA	ATHENS	82	57	86	52	69	1	0.00	-0.78	0.00	2.69	66	48.83	130	95	48	0	0	0	0
	ATLANTA	81	61	85	56	71	3	0.00	-0.83	0.00	2.74	59	53.78	135	84	50	0	0	0	0
	AUGUSTA	84	54	89	50	69	0	0.16	-0.56	0.04	2.07	50	47.38	131	100	43	0	0	7	0
	COLUMBUS	85	63	89	59	74	3	0.00	-0.56	0.00	1.17	34	51.54	135	84	43	0	0	0	0
	MACON	83	55	87	52	69	-1	0.05	-0.55	0.02	2.01	55	60.15	168	100	47	0	0	3	0
	SAVANNAH	85	62	88	57	73	1	0.00	-0.83	0.00	1.78	31	48.96	117	91	47	0	0	0	0
HI	HILO	84	70	86	69	77	1	1.49	-0.29	0.75	3.94	38	68.63	75	92	81	0	0	7	1
	HONOLULU	86	74	88	72	80	-1	0.63	0.29	0.43	1.37	138	10.45	93	78	67	0	0	4	0
	KAHULUI	89	69	91	66	79	0	0.03	-0.06	0.02	0.29	63	8.94	71	79	65	1	0	2	0
	LIHUE	84	74	85	70	79	0	0.88	0.09	0.45	2.72	83	19.93	75	82	74	0	0	4	1
ID	BOISE	62	42	69	35	52	-7	0.09	-0.06	0.05	1.33	153	6.23	71	79	48	0	0	4	0
	LEWISTON	62	42	67	35	52	-6	0.08	-0.09	0.04	1.55	168	7.94	83	79	58	0	0	3	0
	POCATELLO	61	38	74	23	49	-5	0.18	-0.01	0.17	0.96	93	4.99	52	69	41	0	3	2	0
IL	CHICAGO/O'HARE	76	58	80	47	67	9	1.15	0.59	0.82	3.51	96	35.88	126	94	64	0	0	3	1
	MOLINE	79	54	85	42	67	7	0.83	0.24	0.35	1.79	50	34.40	112	91	57	0	0	4	0
	PEORIA	80	59	86	48	69	9	1.86	1.19	1.84	3.71	103	35.54	125	92	52	0	0	2	1
	ROCKFORD	77	55	84	43	66	8	1.25	0.62	1.13	2.86	73	34.87	117	93	59	0	0	3	1
	SPRINGFIELD	81	58	88	44	70	8	0.74	0.16	0.66	1.95	60	32.62	117	98	50	0	0	3	1
IN	EVANSVILLE	79	66	85	63	73	9	3.40	2.81	1.75	5.65	166	41.00	120	92	76	0	0	6	3
	FORT WAYNE	77	58	85	52	67	8	0.90	0.35	0.49	2.61	82	34.94	122	97	63	0	0	4	0
	INDIANAPOLIS	76	63	82	59	69	8	0.00	-0.57	0.00	0.00	0	29.96	94	97	69	0	0	0	0
	SOUTH BEND	77	58	82	43	67	9	0.99	0.22	0.49	4.89	113	31.87	105	92	70	0	0	3	0
IA	BURLINGTON	80	54	86	43	67	5	0.19	-0.55	0.17	1.40	34	28.45	93	97	50	0	0	3	0
	CEDAR RAPIDS	77	52	82	41	65	6	2.09	1.54	2.09	4.29	117	33.68	121	91	45	0	0	1	1
	DES MOINES	79	57	86	47	68	8	2.47	1.89	2.26	4.84	136	28.38	98	84	52	0	0	2	1
	DUBUQUE	73	51	80	41	62	5	1.05	0.44	0.87	3.42	86	34.14	117	97	66	0	0	2	1
	SIOUX CITY	77	48	88	40	62	4	0.91	0.42	0.34	2.38	86	22.51	101	88	61	0	0	4	0
	WATERLOO	76	49	82	39	63	6	0.88	0.33	0.48	2.37	71	36.65	132	91	51	0	0	2	0
KS	CONCORDIA	80	51	89	41	66	3	0.05	-0.44	0.05	1.59	56	25.16	102	77	48	0	0	1	0
	DODGE CITY	79	50	91	42	65	1	0.00	-0.33	0.00	1.12	58	16.61	86	79	29	1	0	0	0
	GOODLAND	71	42	84	34	57	-2	0.02	-0.20	0.02	6.47	505	15.26	86	85	43	0	0	1	0
	TOPEKA	81	53	90	43	67	4	1.06	0.30	0.71	4.44	104	28.91	98	84	55	1	0	2	1

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

Weather Data for the Week Ending October 5, 2013

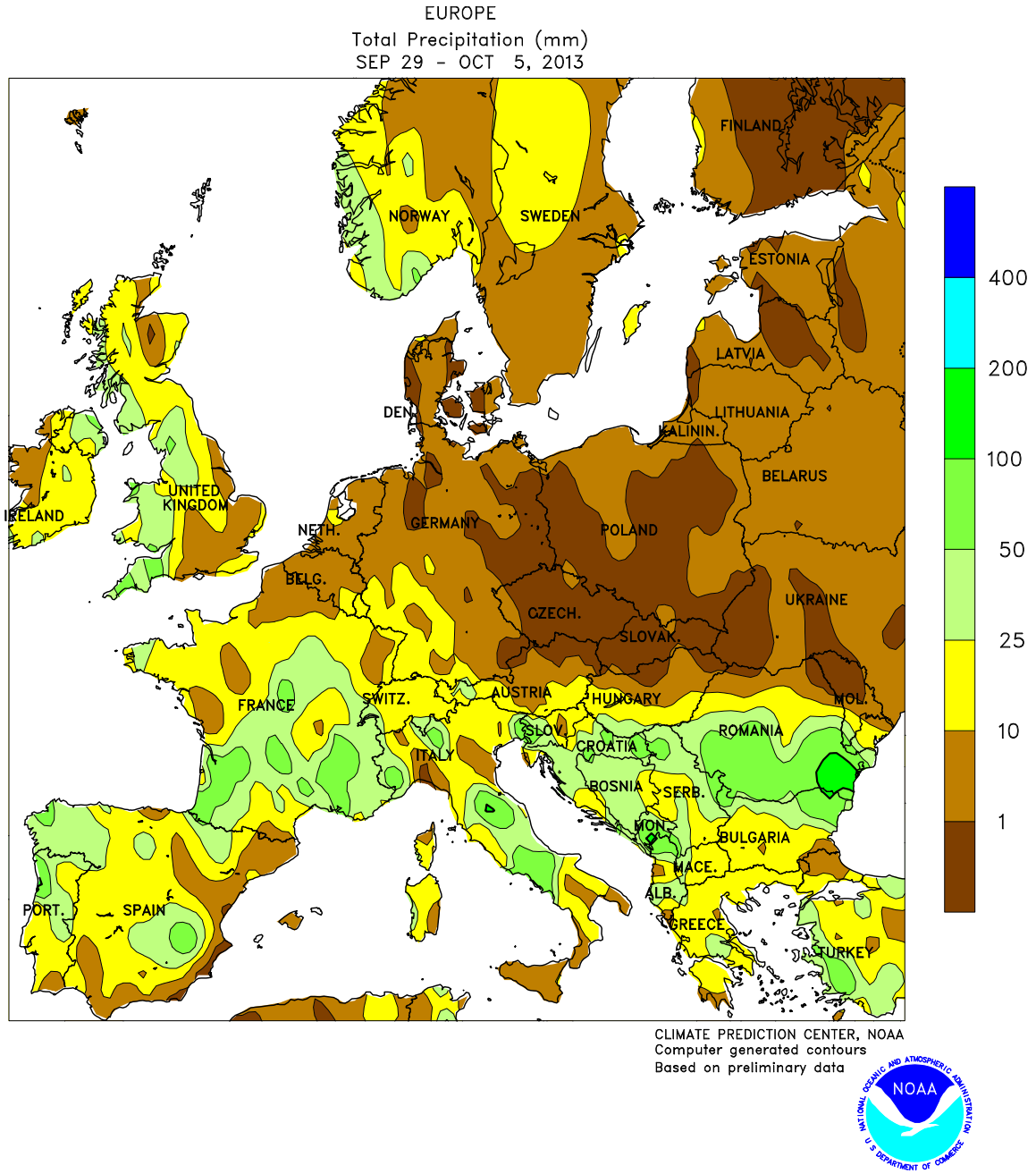
STATES AND STATIONS		TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY PERCENT		NUMBER OF DAYS			
																	TEMP. °F		PRECIP	
		AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE SEP 1	PCT. NORMAL SINCE SEP 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	82	55	90	45	68	3	0.30	-0.33	0.30	2.33	69	36.84	146	83	49	1	0	1	0
KY	JACKSON	80	60	85	56	70	7	0.00	-0.76	0.00	1.27	30	44.48	116	95	54	0	0	0	0
	LEXINGTON	81	62	84	55	71	8	1.81	1.16	1.80	3.44	96	47.09	130	92	59	0	0	2	1
	LOUISVILLE	79	65	86	60	72	7	6.41	5.77	5.91	9.02	258	40.83	118	92	65	0	0	5	1
	PADUCAH	79	66	87	61	73	9	5.62	4.81	4.18	7.56	183	48.32	129	93	67	0	0	6	2
LA	BATON ROUGE	86	71	88	66	78	4	1.07	0.17	0.52	7.88	144	60.54	121	97	63	0	0	4	1
	LAKE CHARLES	87	73	89	72	80	5	1.83	0.70	1.25	9.18	136	48.18	107	98	65	0	0	4	1
	NEW ORLEANS	87	73	90	67	80	5	1.86	1.02	1.23	9.32	152	59.61	116	91	67	1	0	4	1
	SHREVEPORT	86	70	89	62	78	6	2.72	1.84	1.19	10.85	283	37.82	99	96	69	0	0	6	2
ME	CARIBOU	68	42	74	35	55	7	0.00	-0.66	0.00	7.02	188	41.75	146	90	40	0	0	0	0
	PORTLAND	70	46	80	40	58	5	0.00	-0.86	0.00	6.72	168	34.93	106	96	50	0	0	0	0
MD	BALTIMORE	83	56	90	49	69	7	0.00	-0.84	0.00	1.66	36	27.23	83	89	44	1	0	0	0
MA	BOSTON	71	56	82	51	64	4	0.06	-0.73	0.03	2.28	56	32.48	103	84	54	0	0	2	0
	WORCESTER	69	51	75	43	60	5	0.43	-0.59	0.39	3.67	73	36.67	99	90	49	0	0	2	0
MI	ALPENA	67	44	77	36	56	5	1.68	1.13	0.91	2.91	91	24.99	111	97	59	0	0	4	1
	GRAND RAPIDS	76	56	80	51	66	10	1.69	0.91	1.27	2.66	55	34.98	121	91	55	0	0	4	1
	HOUGHTON LAKE	69	45	76	39	57	5	1.54	0.99	0.60	2.76	79	22.86	101	97	66	0	0	5	2
	LANSING	75	53	80	47	64	9	0.82	0.22	0.70	1.75	45	34.66	140	94	62	0	0	2	1
	MUSKEGON	73	55	75	47	64	9	1.56	0.93	0.42	3.10	78	34.36	139	89	61	0	0	4	0
	TRAVERSE CITY	72	50	79	42	61	6	3.68	2.96	2.26	6.51	159	32.41	126	94	54	0	0	4	2
MN	DULUTH	65	48	74	42	56	6	1.65	0.93	1.23	2.92	63	24.51	94	82	55	0	0	4	1
	INT'L FALLS	63	42	75	33	53	5	0.50	-0.06	0.46	2.51	73	27.62	136	87	52	0	0	2	0
	MINNEAPOLIS	70	52	80	46	61	5	1.24	0.79	0.91	2.61	87	29.05	118	84	54	0	0	4	1
	ROCHESTER	71	50	76	42	60	6	0.36	-0.18	0.36	0.36	10	35.06	132	88	59	0	0	1	0
	ST. CLOUD	66	46	77	36	56	4	1.40	0.90	0.66	3.29	100	23.62	103	92	51	0	0	4	1
MS	JACKSON	85	69	90	65	77	7	0.09	-0.60	0.06	7.67	206	51.45	121	93	63	1	0	3	0
	MERIDIAN	83	64	88	56	73	2	0.08	-0.71	0.07	2.90	69	52.44	115	96	69	0	0	2	0
	TUPELO	82	65	88	60	74	6	0.33	-0.43	0.28	3.10	80	40.38	96	91	64	0	0	3	0
MO	COLUMBIA	81	58	87	45	70	8	0.52	-0.19	0.52	2.94	75	36.04	114	96	58	0	0	1	1
	KANSAS CITY	78	54	86	45	66	3	2.05	1.03	1.40	6.90	129	29.55	94	85	52	0	0	2	2
	SAINT LOUIS	83	63	89	54	73	8	0.55	-0.07	0.23	3.28	96	37.88	127	86	60	0	0	4	0
	SPRINGFIELD	79	60	84	47	70	6	2.54	1.61	1.84	4.74	86	42.89	124	95	72	0	0	2	2
MT	BILLINGS	59	38	72	29	48	-6	1.42	1.09	1.23	4.75	301	12.92	105	79	45	0	2	3	1
	BUTTE	49	30	56	20	39	-8	0.53	0.34	0.38	3.05	248	10.34	94	92	43	0	5	4	0
	CUT BANK	55	33	67	17	44	-4	0.00	-0.14	0.00	2.30	181	12.05	106	73	33	0	3	0	0
	GLASGOW	61	36	72	24	49	-3	0.00	-0.19	0.00	2.43	217	15.02	152	71	41	0	2	0	0
	GREAT FALLS	56	36	64	28	46	-5	0.00	-0.22	0.00	0.85	61	9.74	76	78	33	0	2	0	0
	HAVRE	60	36	68	24	48	-3	0.00	-0.18	0.00	2.06	178	17.16	171	72	43	0	2	0	0
	MISSOULA	56	36	60	25	46	-4	0.32	0.13	0.25	1.47	120	7.79	71	87	54	0	2	3	0
NE	GRAND ISLAND	76	51	86	39	63	4	2.26	1.85	2.07	4.65	172	24.06	107	83	52	0	0	2	1
	LINCOLN	78	50	86	43	64	4	2.06	1.51	2.06	4.05	123	24.48	100	83	47	0	0	1	1
	NORFOLK	74	48	85	39	61	3	1.99	1.56	1.16	2.87	113	21.28	92	82	54	0	0	4	2
	NORTH PLATTE	68	43	84	36	55	-2	0.03	-0.25	0.03	5.11	336	19.47	112	87	47	0	0	1	0
	OMAHA	78	52	86	42	65	5	2.45	1.82	1.54	5.21	144	26.44	103	87	48	0	0	2	2
	SCOTTSBLUFF	66	38	85	32	52	-3	0.78	0.52	0.76	2.13	151	10.44	74	85	41	0	2	2	1
	VALENTINE	65	42	89	33	54	-2	2.18	1.84	1.30	3.74	202	21.37	122	85	53	0	0	4	2
NV	ELY	64	31	75	17	48	-3	0.00	-0.22	0.00	1.76	160	5.91	74	56	26	0	3	0	0
	LAS VEGAS	85	61	92	55	73	-3	0.00	-0.06	0.00	0.35	100	1.54	43	23	16	2	0	0	0
	RENO	69	44	77	34	56	-2	0.00	-0.08	0.00	0.02	4	3.06	56	52	31	0	0	0	0
	WINNEMUCCA	67	36	75	19	51	-4	0.00	-0.11	0.00	0.70	115	3.11	51	63	35	0	3	0	0
NH	CONCORD	73	44	79	39	58	4	0.00	-0.72	0.00	4.81	131	33.11	118	99	46	0	0	0	0
NJ	NEWARK	81	58	89	53	69	7	0.05	-0.76	0.05	1.59	35	34.89	96	87	46	0	0	1	0
NM	ALBUQUERQUE	75	47	83	40	61	-3	0.00	-0.20	0.00	3.97	325	7.86	105	45	15	0	0	0	0
NY	ALBANY	71	50	78	44	61	6	0.72	0.03	0.70	5.53	146	37.04	126	91	53	0	0	2	1
	BINGHAMTON	72	53	77	47	63	9	0.66	-0.08	0.43	3.58	87	33.87	114	96	62	0	0	2	0
	BUFFALO	71	56	75	50	64	8	1.39	0.65	0.99	4.93	113	32.56	108	91	65	0	0	3	1
	ROCHESTER	73	54	78	47	64	8	0.36	-0.29	0.27	2.78	71	28.01	107	94	60	0	0	3	0
	SYRACUSE	73	52	77	47	62	6	0.18	-0.65	0.17	3.27	69	29.85	98	91	58	0	0	2	0
NC	ASHEVILLE	77	55	81	53	66	5	0.00	-0.69	0.00	3.06	73	61.84	166	97	51	0	0	0	0
	CHARLOTTE	82	56	87	51	69	1	0.00	-0.86	0.00	3.06	69	38.39	113	96	44	0	0	0	0
	GREENSBORO	82	57	88	52	69	5	0.00	-0.93	0.00	2.13	43	40.52	117	91	43	0	0	0	0
	HATTERAS	80	65	83	61	72	1	0.00	-1.17	0.00	4.83	74	36.04	82	94	56	0	0	0	0
	RALEIGH	83	56	89	51	69	3	0.00	-0.89	0.00	2.94	60	40.41	117	96	44	0	0	0	0
	WILMINGTON	83	58	86	52	71	1	0.00	-1.17	0.00	1.08	14	43.79	92	94	42	0	0	0	0
ND	BISMARCK	62	39	77	33	51	-1	2.55	2.22	1.67	6.93	377	23.24	159	84	54	0	0	2	2
	DICKINSON	62	39	77	28	50	-2	0.37	0.02	0.35	3.69	198	16.85	118	78	38	0	1	2	0
	FARGO	65	45	78	42	55	3	1.19	0.72	0.92	5.60	223	27.52	154	85	53	0	0	2	1
	GRAND FORKS	61	42	77	35	51	0	0.77	0.38	0.68	2.74	122	16.97	102	95	54	0	0	2	1
	JAMESTOWN	61	40	77	37	50	-2	1.77	1.41	1.33	3.95	198	13.18	81	91	53	0	0	3	1
	WILLISTON	62	32	77	16	47	-3	0.01	-0.25	0.01	1.91	125	17.79	145	75	46	0	2	1	0
OH	AKRON-CANTON	76	60	82	54	68	10	2.84	2.17	1.54	5.75	147	32.81	108	91	74	0	0	2	2
	CINCINNATI	77	61	83	55	69	7	1.72	1.14	1.22	5.27	163	38.32	115	98	76	0	0	4	1
	CLEVELAND	76	61	80	57	69	11	0.68	-0.02	0.59	2.55	60	30.76	103	88	66	0	0	3	1
	COLUMBUS	80	62	85	57	71	10	1.37	0.83	0.49	3.91	118	30.55	100	89	63	0	0	4	0
	DAYTON	76	63	82	59	70	10	1.36	0.84	0.98	3.40	113	25.77	84	96	72	0	0	4	1
	MANSFIELD	76	60	80	55	68	10	1.24	0.67	0.66	3.94	103	32.88	97	99	63	0	0	5	1

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

Weather Data for the Week Ending October 5, 2013

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 SEP 1	PCT. NORMAL SINCE SEP 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	74	58	82	51	66	8	1.52	0.99	0.94	3.18	99	29.96	116	98	74	0	0	4	1
	YOUNGSTOWN	76	56	81	51	66	10	0.19	-0.55	0.13	2.40	55	29.62	99	94	67	0	0	2	0
OK	OKLAHOMA CITY	82	58	90	48	70	2	0.90	-0.09	0.47	2.85	61	48.05	166	84	42	1	0	2	0
	TULSA	83	61	88	49	72	3	1.08	-0.01	1.08	3.60	65	26.97	81	94	57	0	0	1	1
OR	ASTORIA	61	45	69	38	53	-3	3.54	2.80	2.42	11.63	369	47.97	117	92	81	0	0	4	2
	BURNS	57	28	64	21	43	-7	0.88	0.77	0.77	2.02	348	5.94	79	92	55	0	6	2	1
	EUGENE	61	42	67	37	51	-7	3.24	2.92	1.91	7.50	421	17.42	56	95	88	0	0	4	2
	MEDFORD	68	43	80	35	56	-5	1.11	0.94	0.75	2.79	310	7.34	65	90	45	0	0	3	1
	PENDLETON	62	40	73	34	51	-7	0.29	0.15	0.20	1.89	259	7.16	82	81	53	0	0	4	0
	PORTLAND	61	47	73	41	54	-5	2.60	2.19	1.44	6.22	319	21.50	93	93	81	0	0	4	2
	SALEM	62	45	69	36	54	-4	1.76	1.39	1.09	5.38	316	17.34	71	90	85	0	0	4	1
PA	ALLENTOWN	80	52	85	46	66	8	0.17	-0.68	0.15	2.25	45	37.11	105	93	49	0	0	2	0
	ERIE	73	58	76	53	66	7	1.32	0.36	0.70	5.28	98	39.13	123	87	71	0	0	4	2
	MIDDLETOWN	81	57	86	49	69	8	0.00	-0.72	0.00	1.16	29	25.43	81	93	46	0	0	0	0
	PHILADELPHIA	81	60	86	53	71	8	0.01	-0.76	0.01	3.27	74	45.50	136	84	46	0	0	1	0
	PITTSBURGH	77	57	81	51	67	8	0.72	0.13	0.35	3.04	84	28.80	96	91	56	0	0	3	0
	WILKES-BARRE	79	52	83	47	65	8	0.03	-0.78	0.03	1.62	37	19.97	68	93	50	0	0	1	0
	WILLIAMSPORT	80	53	83	46	67	10	0.24	-0.57	0.18	1.85	41	23.47	72	94	51	0	0	2	0
RI	PROVIDENCE	74	51	81	46	63	4	0.25	-0.51	0.23	4.84	114	35.66	103	90	52	0	0	2	0
SC	BEAUFORT	84	59	89	56	72	0	0.00	-0.81	0.00	0.01	0	40.85	98	95	44	0	0	0	0
	CHARLESTON	85	60	94	56	73	1	0.00	-0.99	0.00	5.01	75	51.07	118	92	45	1	0	0	0
	COLUMBIA	85	57	90	53	71	1	0.00	-0.70	0.00	1.96	44	45.46	115	91	41	2	0	0	0
	GREENVILLE	81	58	85	54	69	3	0.00	-0.91	0.00	2.50	54	56.85	145	95	49	0	0	0	0
SD	ABERDEEN	64	40	80	37	52	-2	1.63	1.24	0.84	4.08	195	17.82	100	94	54	0	0	3	2
	HURON	70	46	86	39	58	3	1.60	1.21	0.93	3.04	146	20.25	111	85	49	0	0	3	2
	RAPID CITY	66	41	87	32	53	-2	2.00	1.77	1.27	3.19	253	17.25	120	74	39	0	1	2	2
	SIOUX FALLS	70	47	83	37	59	4	0.23	-0.25	0.12	1.00	34	21.42	101	84	57	0	0	3	0
TN	BRISTOL	79	53	85	50	66	5	0.00	-0.63	0.00	1.85	53	46.70	142	95	45	0	0	0	0
	CHATTANOOGA	82	61	87	57	72	5	0.00	-0.85	0.00	2.11	43	56.30	134	92	54	0	0	0	0
	KNOXVILLE	80	59	86	54	70	5	0.00	-0.65	0.00	4.42	126	55.79	149	97	54	0	0	0	0
	MEMPHIS	83	69	88	66	76	6	0.17	-0.53	0.08	0.82	22	46.77	116	88	59	0	0	3	0
	NASHVILLE	83	64	89	58	73	7	0.19	-0.51	0.16	4.69	115	42.19	115	91	52	0	0	3	0
TX	ABILENE	86	63	90	50	75	4	0.40	-0.29	0.40	3.58	105	19.91	106	81	49	2	0	1	0
	AMARILLO	83	48	91	42	66	2	0.00	-0.34	0.00	1.89	89	14.26	83	72	18	1	0	0	0
	AUSTIN	88	67	91	61	78	2	0.73	-0.10	0.73	5.40	154	24.62	98	90	63	4	0	1	1
	BEAUMONT	88	74	91	73	81	6	4.82	3.56	2.45	9.50	136	44.69	97	94	64	1	0	6	4
	BROWNSVILLE	92	75	93	74	84	6	0.56	-0.60	0.32	12.14	198	22.18	102	95	64	6	0	2	0
	CORPUS CHRISTI	93	75	94	72	84	6	0.41	-0.72	0.22	6.56	113	17.56	69	90	56	7	0	3	0
	DEL RIO	90	70	94	59	80	4	0.14	-0.38	0.14	4.61	190	13.10	88	89	61	5	0	1	0
	EL PASO	85	58	89	49	71	0	0.00	-0.29	0.00	3.85	213	9.15	120	35	16	0	0	0	0
	FORT WORTH	87	66	92	52	77	4	0.25	-0.57	0.25	3.00	99	21.67	83	84	42	4	0	1	0
	GALVESTON	86	77	88	72	81	3	1.12	0.05	0.84	5.24	80	29.47	87	94	74	0	0	2	1
	HOUSTON	88	72	93	65	80	5	0.87	-0.09	0.51	5.29	105	26.49	73	99	74	2	0	5	1
	LUBBOCK	88	56	95	43	72	6	0.00	-0.52	0.00	0.53	18	10.31	65	71	25	5	0	0	0
	MIDLAND	90	61	96	50	76	6	0.00	-0.54	0.00	0.30	11	4.86	40	69	26	5	0	0	0
	SAN ANGELO	86	62	90	47	74	3	0.02	-0.67	0.02	4.65	135	16.41	98	85	52	2	0	1	0
	SAN ANTONIO	91	71	93	63	81	5	2.03	1.23	1.98	3.79	106	27.22	108	90	46	6	0	2	1
	VICTORIA	90	71	95	67	81	4	0.06	-1.12	0.06	5.02	86	19.94	63	99	62	5	0	1	0
	WACO	86	65	91	57	76	2	0.06	-0.79	0.06	5.44	156	26.86	108	93	70	2	0	1	0
	WICHITA FALLS	87	60	92	50	73	2	0.00	-0.77	0.00	1.98	53	17.46	76	85	46	4	0	0	0
UT	SALT LAKE CITY	67	46	84	34	57	-2	0.12	-0.24	0.08	1.30	82	8.75	70	66	28	0	0	2	0
VT	BURLINGTON	73	48	80	47	61	7	0.01	-0.75	0.01	4.83	111	37.53	133	92	47	0	0	1	0
VA	LYNCHBURG	83	53	89	47	68	6	0.00	-0.88	0.00	0.48	11	34.20	100	97	43	0	0	0	0
	NORFOLK	81	61	89	53	71	4	0.00	-0.86	0.00	0.93	20	34.19	93	90	49	0	0	0	0
	RICHMOND	85	58	92	54	72	8	0.00	-0.89	0.00	1.39	30	40.30	116	87	43	2	0	0	0
	ROANOKE	81	56	86	48	68	6	0.00	-0.80	0.00	1.15	26	43.45	128	89	47	0	0	0	0
	WASH/DULLES	83	53	90	45	68	7	0.01	-0.79	0.01	1.68	38	29.53	90	93	43	2	0	1	0
WA	OLYMPIA	59	44	68	37	52	-2	3.87	3.35	1.37	10.92	453	34.18	110	96	89	0	0	4	4
	QUILLAYUTE	62	46	72	40	54	0	3.40	2.02	1.79	10.85	210	72.67	114	86	70	0	0	4	3
	SEATTLE-TACOMA	60	48	68	42	54	-3	2.00	1.58	0.79	6.74	349	26.14	115	83	74	0	0	5	2
	SPOKANE	57	38	63	35	48	-5	0.47	0.33	0.33	1.58	184	9.05	81	86	47	0	0	3	0
	YAKIMA	64	37	68	32	50	-5	0.08	0.02	0.04	0.34	77	4.70	88	84	55	0	1	2	0
WV	BECKLEY	75	54	79	50	64	5	0.08	-0.61	0.08	1.72	46	31.69	95	92	56	0	0	1	0
	CHARLESTON	81	57	85	52	69	8	0.00	-0.65	0.00	2.50	64	36.55	105	100	57	0	0	0	0
	ELKINS	77	50	82	43	63	6	0.00	-0.74	0.00	2.37	55	35.28	96	99	49	0	0	0	0
	HUNTINGTON	82	60	85	56	71	9	0.27	-0.31	0.25	1.97	61	34.40	103	96	57	0	0	2	0
WI	EAU CLAIRE	69	48	78	38	59	5	2.20	1.59	0.94	4.00	96	31.64	116	92	53	0	0	5	2
	GREEN BAY	70	49	81	42	60	6	0.96	0.43	0.65	3.86	111	27.85	117	94	58	0	0	2	1
	LA CROSSE	74	52	81	45	63	6	3.18	2.61	1.39	4.79	126	31.93	117	91	47	0	0	3	3
	MADISON	74	51	79	43	62	6	0.76	0.25	0.61	3.95	115	40.43	149	95	62	0	0	2	1
	MILWAUKEE	73	55	82	45	64	6	1.94	1.35	1.19	3.48	94	33.62	121	93	63	0	0	3	2
WY	CASPER	56	34	75	19	45	-7	2.05	1.77	1.52	3.31	281	12.51	117	84	54	0	3	3	2
	CHEYENNE	60	39	75	26	49	-2	0.62	0.38	0.31	7.58	474	16.07	117	67	43	0	2	2	0
	LANDER	53	34	69	13	44	-9	1.66	1.35	0.84	5.50	401	13.36	125	87	48	0	3	3	2
	SHERIDAN	57	34	75	21	45	-6	1.31	0.95	0.86	6.57	401	16.57	137	81	53	0	3	3	1

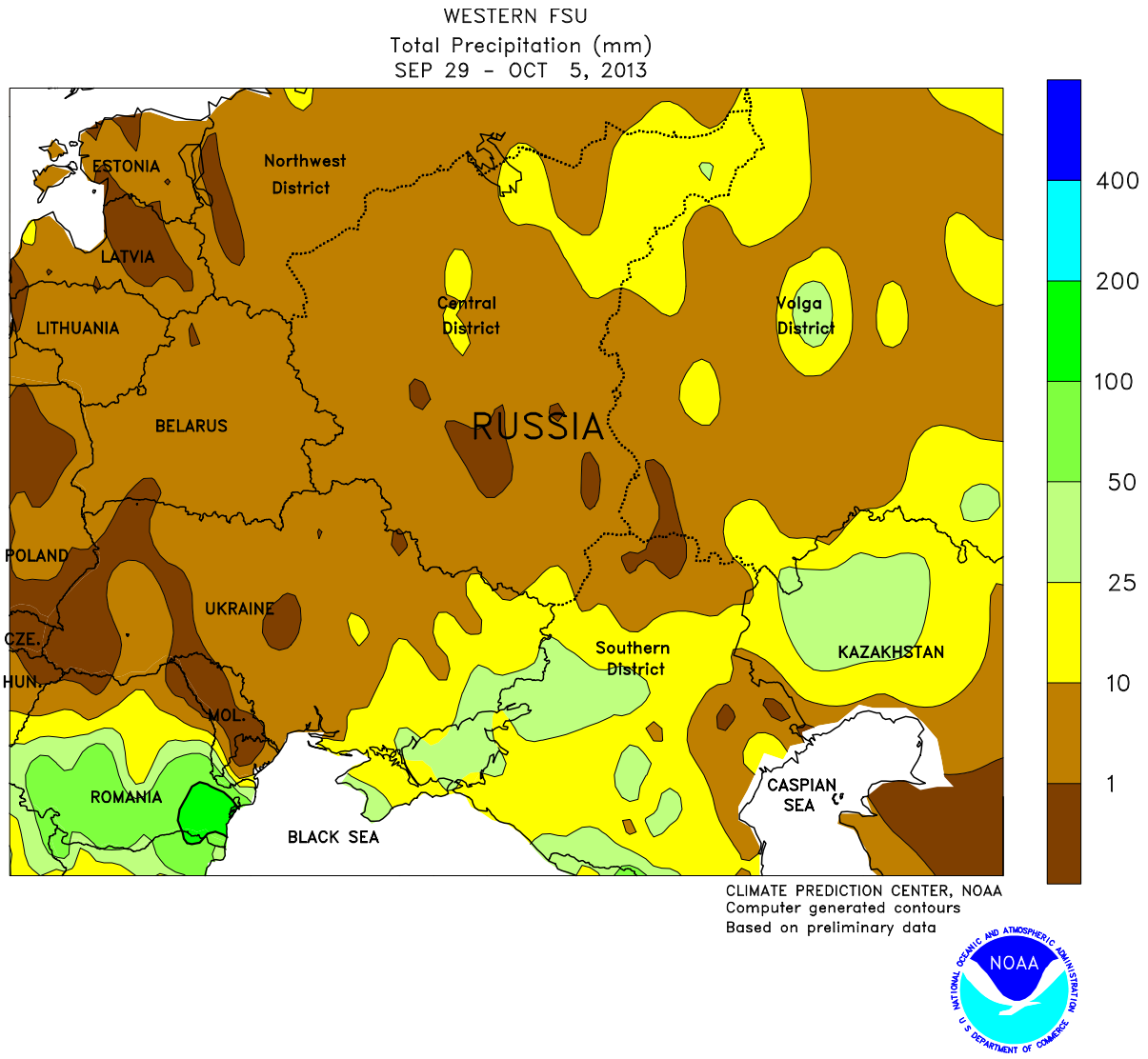
Based on 1971-2000 normals ***** Not Available**



EUROPE

A detailed description of weather events occurring since September 29 will be published in *Weekly Weather and Crop Bulletin* Volume 100, No. 43.

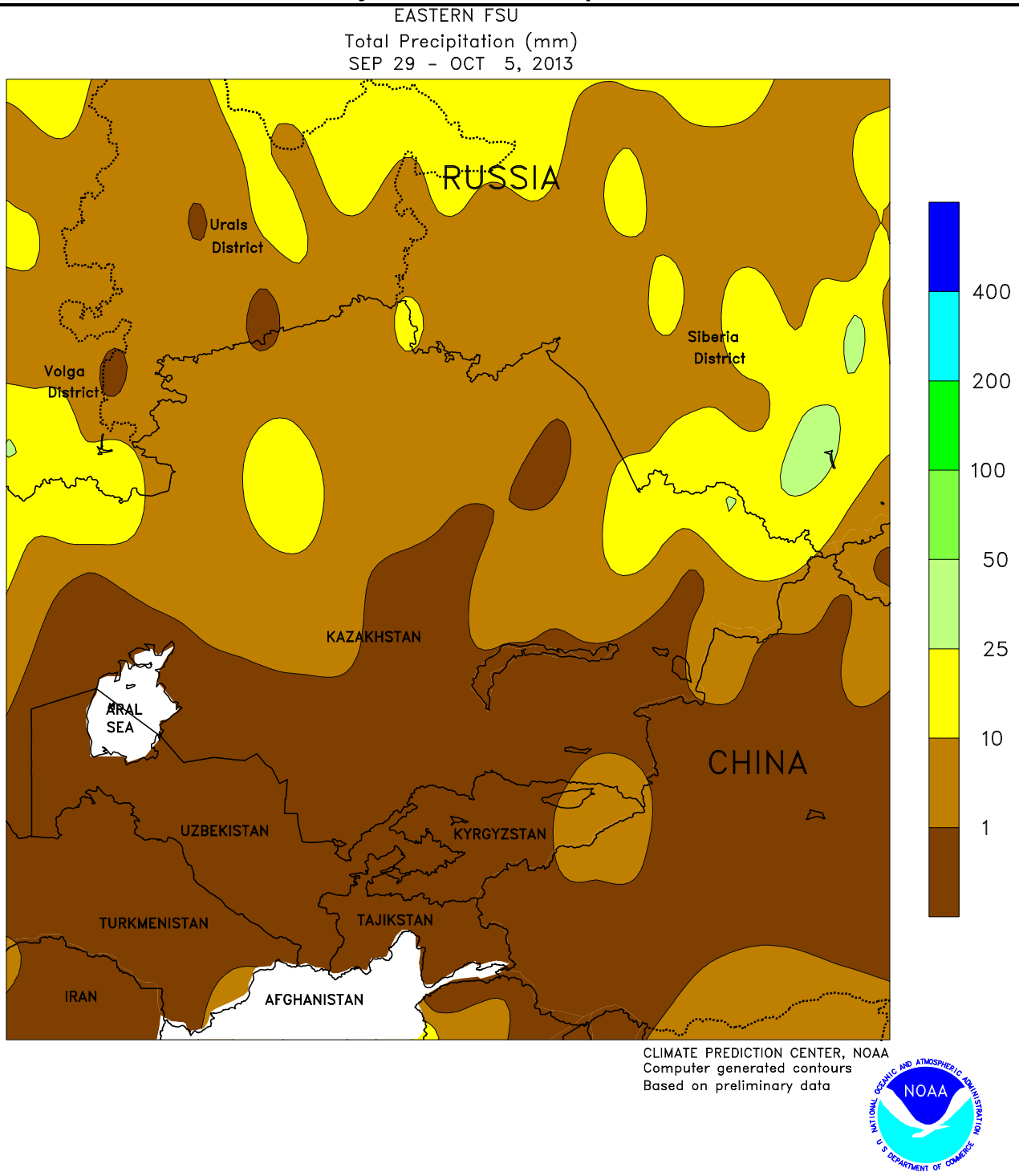
For additional information contact: mbrusberg@oce.usda.gov



WESTERN FSU

A detailed description of weather events occurring since September 29 will be published in *Weekly Weather and Crop Bulletin* Volume 100, No. 43.

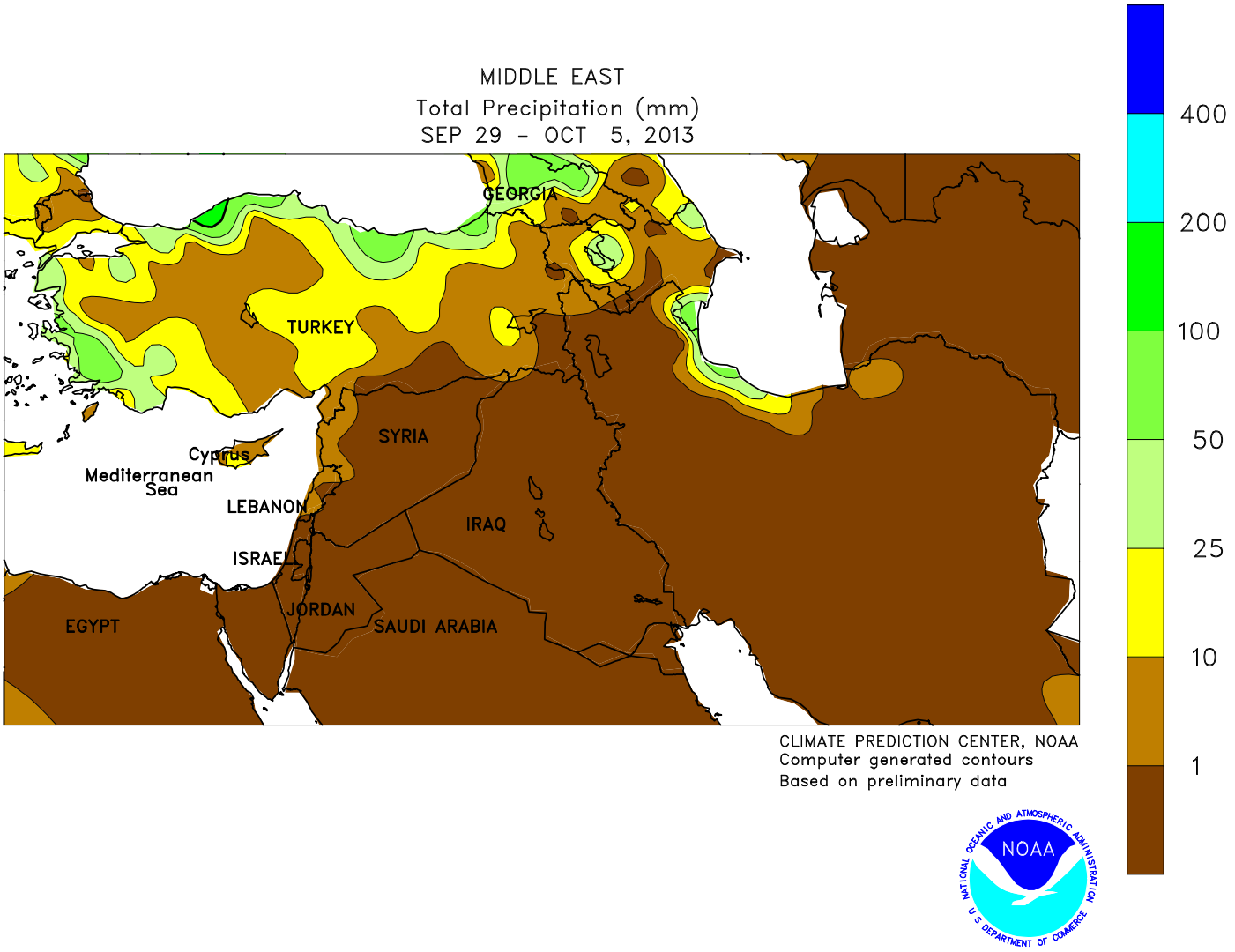
For additional information contact: mbrusberg@oce.usda.gov



EASTERN FSU

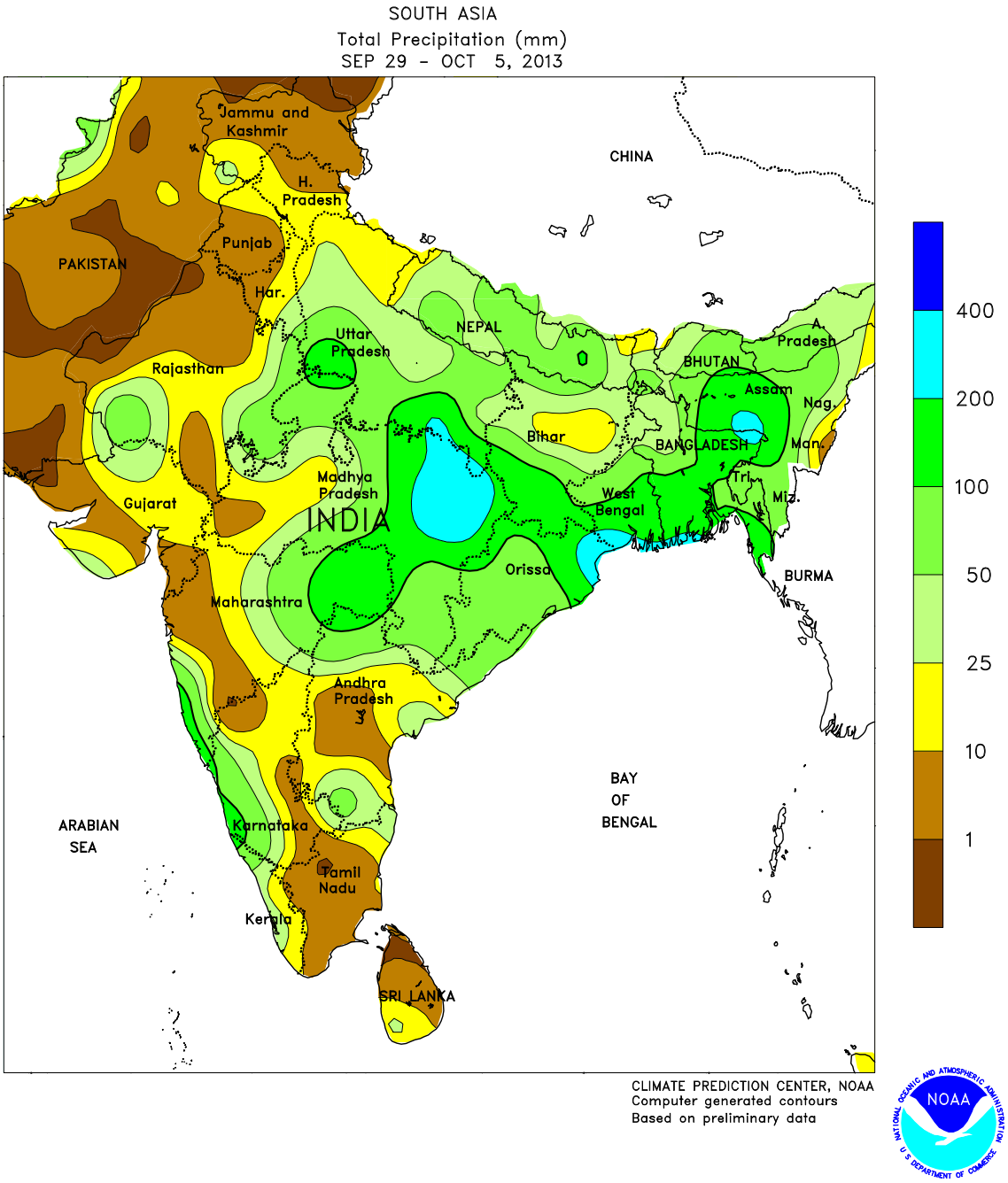
A detailed description of weather events occurring since September 29 will be published in *Weekly Weather and Crop Bulletin* Volume 100, No. 43.

For additional information contact: mbrusberg@oce.usda.gov



MIDDLE EAST

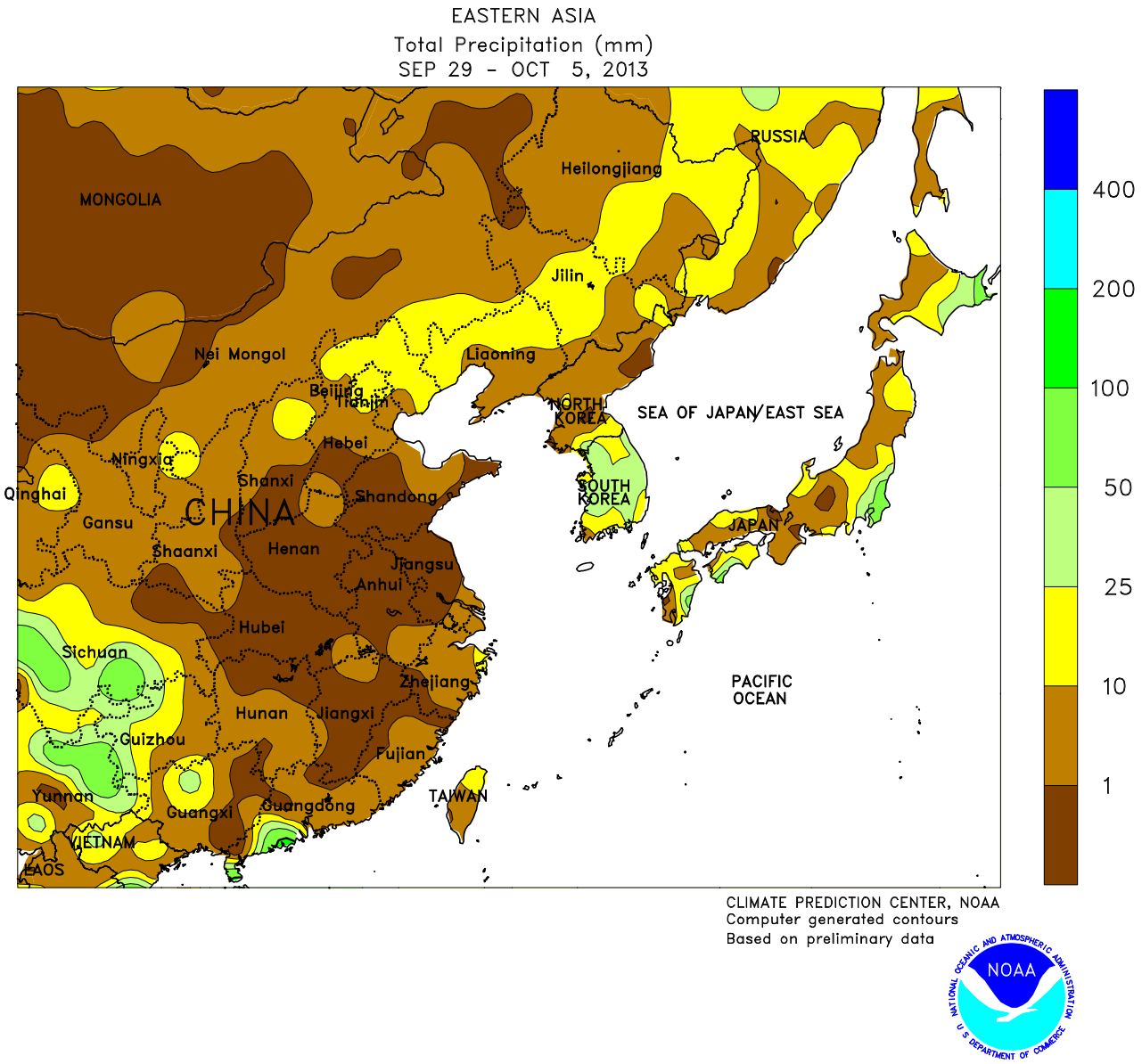
A detailed description of weather events occurring since September 29 will be published in *Weekly Weather and Crop Bulletin* Volume 100, No. 43.



SOUTH ASIA

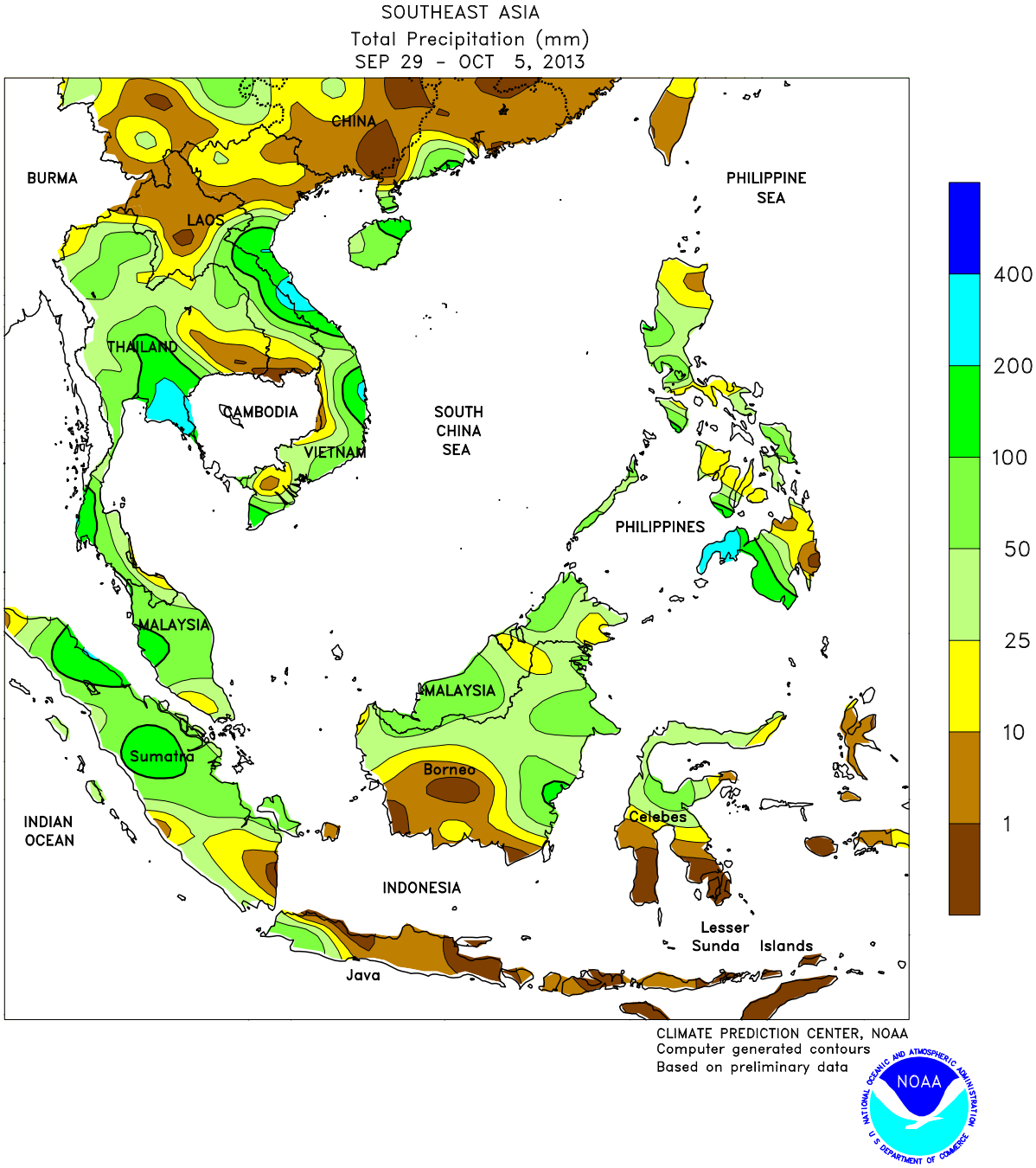
A detailed description of weather events occurring since September 29 will be published in *Weekly Weather and Crop Bulletin* Volume 100, No. 43.

For additional information contact: mbrusberg@oce.usda.gov



EASTERN ASIA

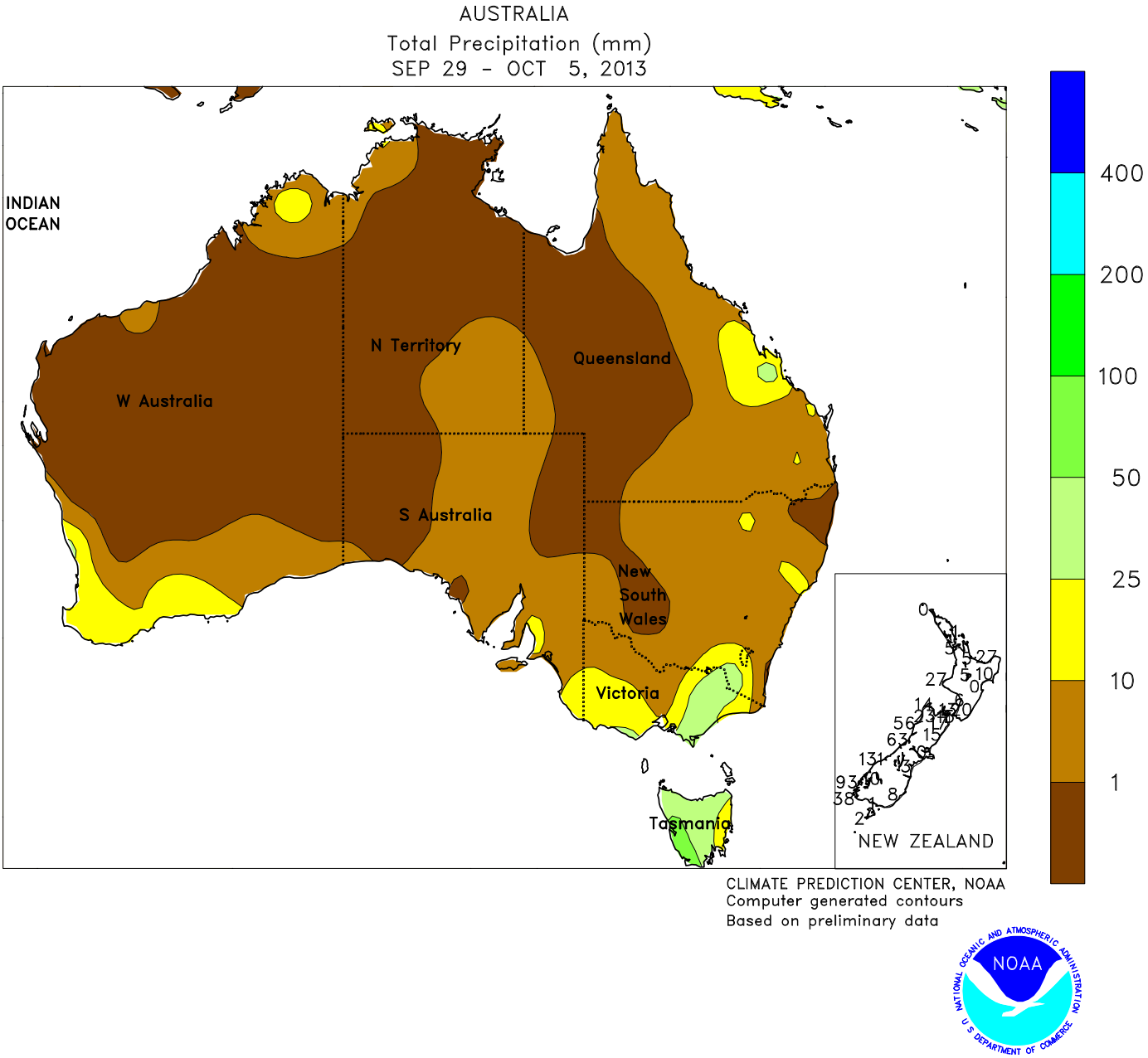
A detailed description of weather events occurring since September 29 will be published in *Weekly Weather and Crop Bulletin* Volume 100, No. 43.



SOUTHEAST ASIA

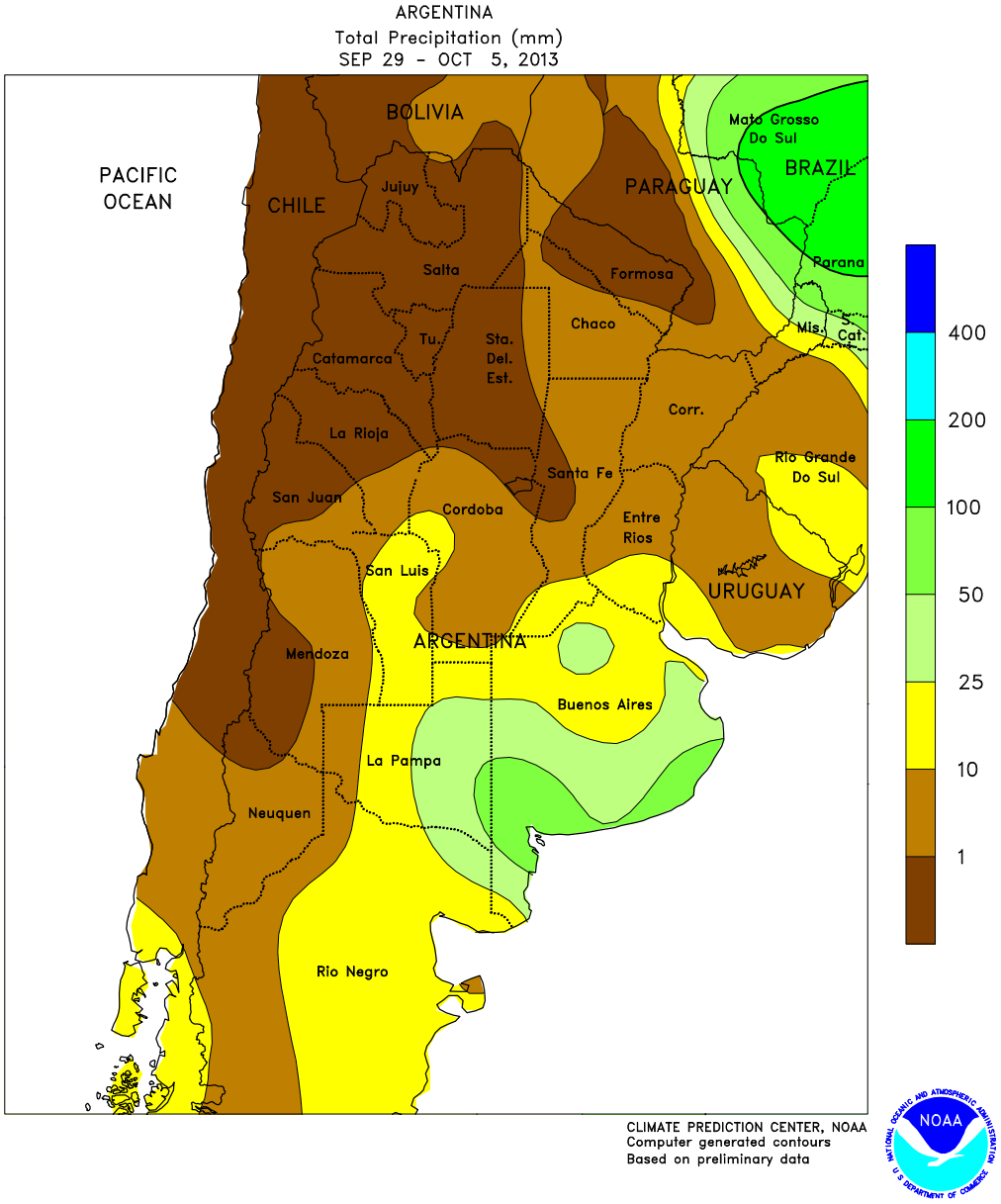
A detailed description of weather events occurring since September 29 will be published in *Weekly Weather and Crop Bulletin* Volume 100, No. 43.

For additional information contact: mbrusberg@oce.usda.gov



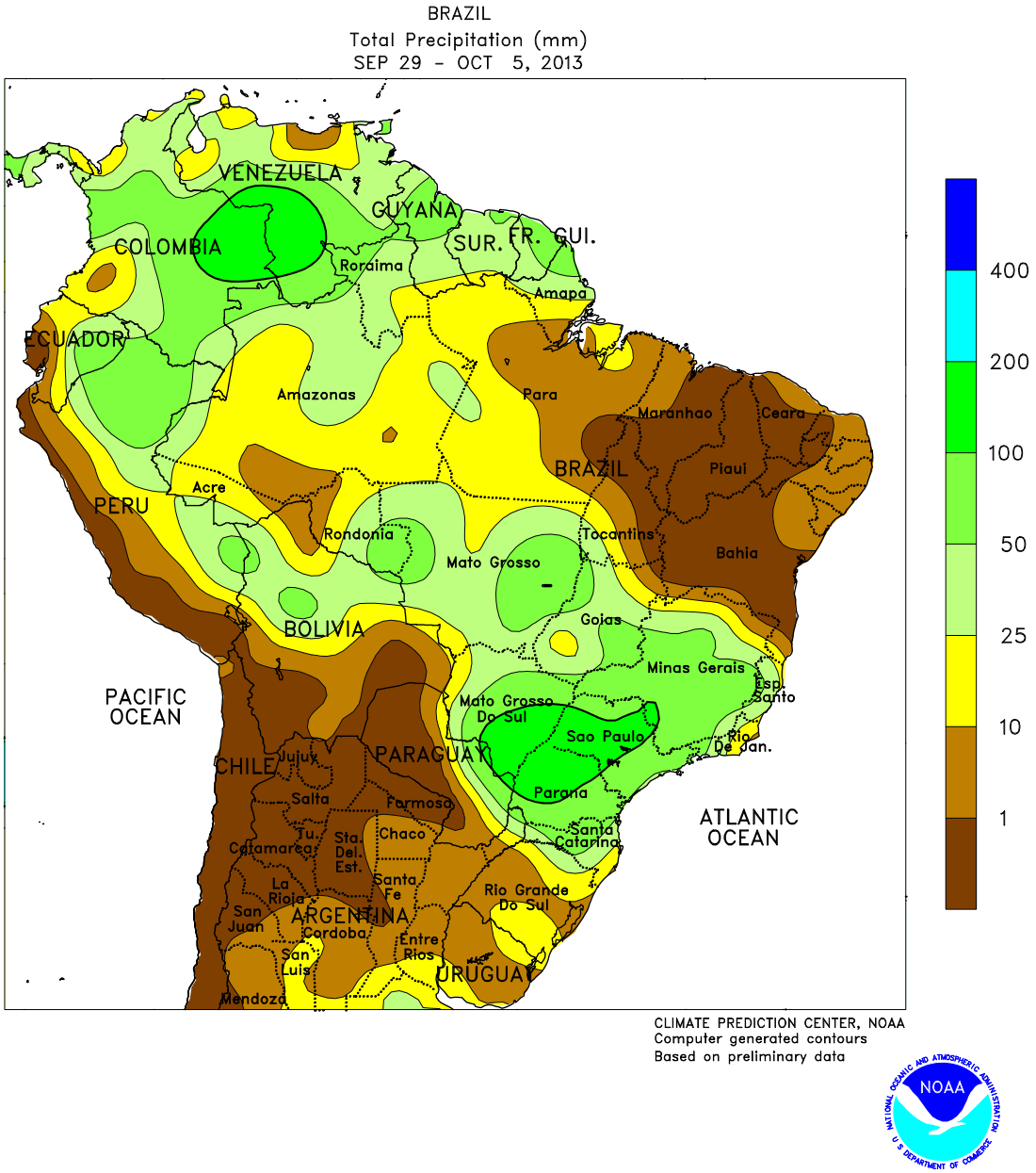
AUSTRALIA

A detailed description of weather events occurring since September 29 will be published in *Weekly Weather and Crop Bulletin* Volume 100, No. 43.



ARGENTINA

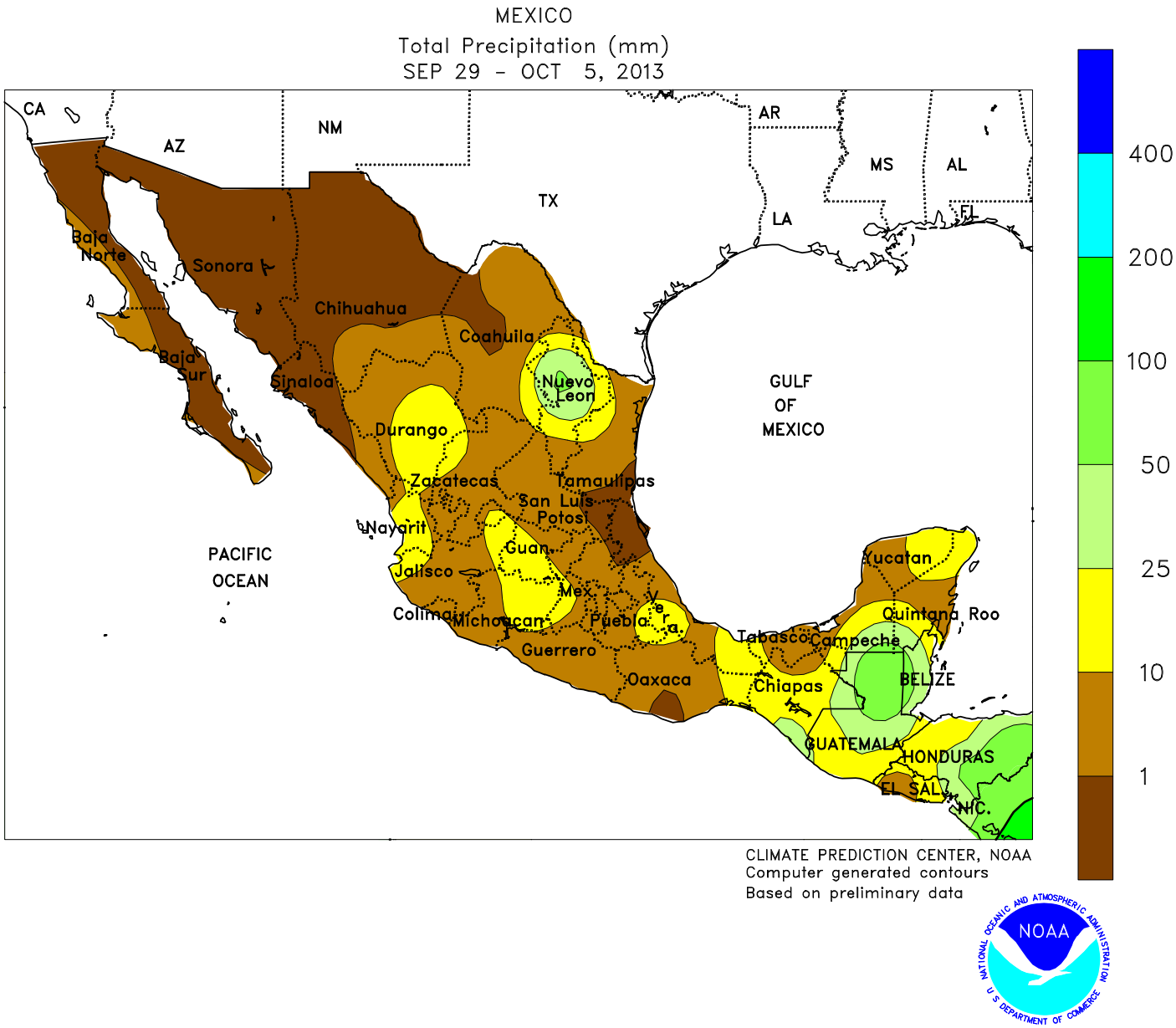
A detailed description of weather events occurring since September 29 will be published in *Weekly Weather and Crop Bulletin* Volume 100, No. 43.



BRAZIL

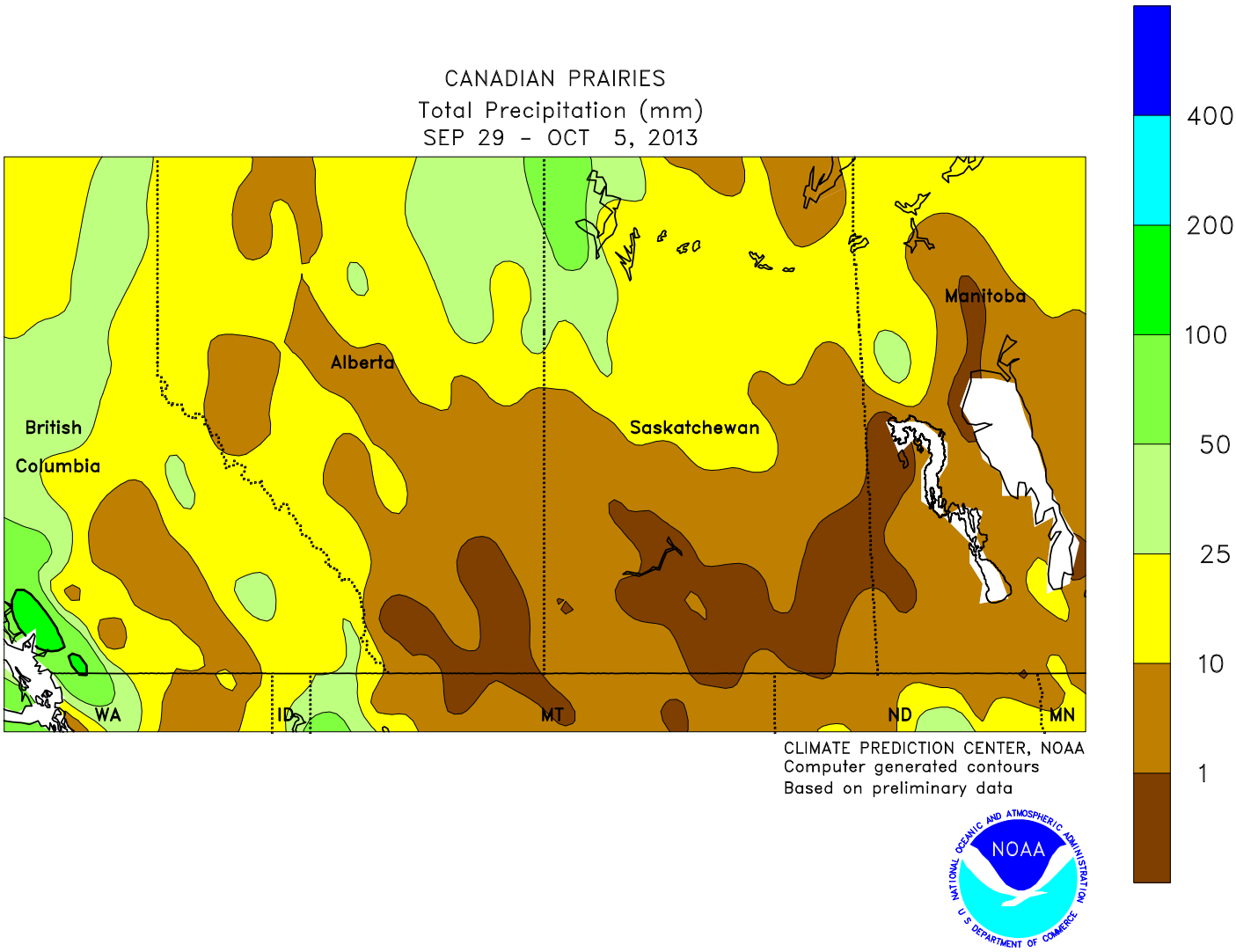
A detailed description of weather events occurring since September 29 will be published in *Weekly Weather and Crop Bulletin* Volume 100, No. 43.

For additional information contact: mbrusberg@oce.usda.gov



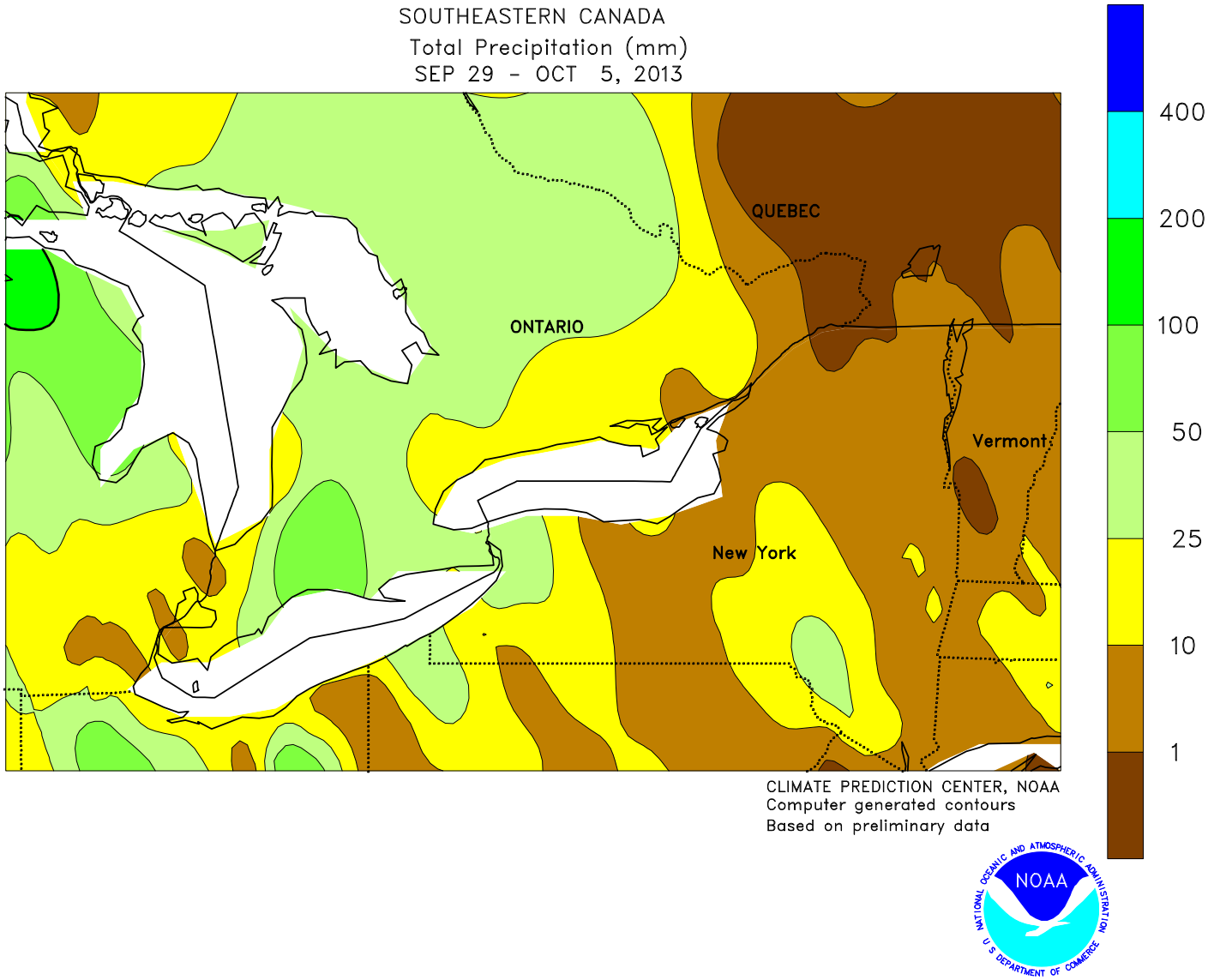
MEXICO

A detailed description of weather events occurring since September 29 will be published in *Weekly Weather and Crop Bulletin* Volume 100, No. 43.



CANADIAN PRAIRIES

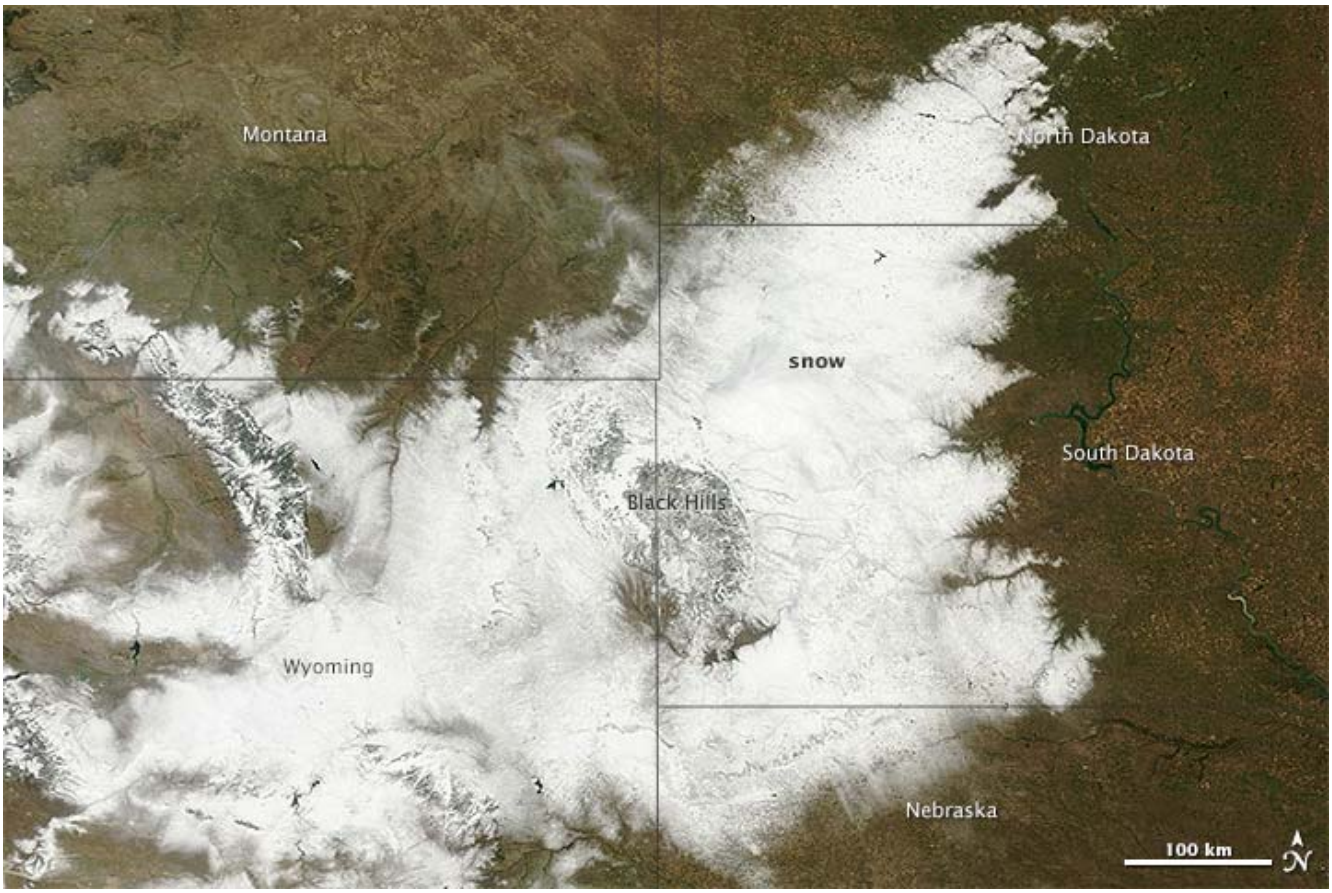
A detailed description of weather events occurring since September 29 will be published in *Weekly Weather and Crop Bulletin* Volume 100, No. 43.



SOUTHEASTERN CANADA

A detailed description of weather events occurring since September 29 will be published in *Weekly Weather and Crop Bulletin* Volume 100, No. 43.

October 6 Satellite Image of Snow Cover from the Black Hills Blizzard



An unprecedented early-season blizzard struck the Black Hills and surrounding areas from October 3-5. Storm-total snowfall reached 23.1 inches in East Rapid City, SD, representing the second-highest 3-day total on record for that location. East Rapid City's highest 3-day total remains 25.6 inches from April 12-14, 1927. Most (19.0 inches) of East Rapid City's snow fell on October 4, which became the third-snowiest day on record behind 20.0 inches on April 18, 1970, and 19.2 inches on April 22, 2001. Prior to this year, East Rapid City's snowiest October day had been October 19, 1919, when 9.9 inches fell. In addition, 1919 had featured East Rapid City's highest October snowfall, with a total of 15.1 inches. Elsewhere in the Black Hills, Lead topped all official observation sites with a storm total of 55 inches. Significant snow also fell in neighboring areas, with October 3-5 totals reaching 16.2 inches in Casper, WY; 12.3 inches in Lander, WY; and 6.1 inches in Scottsbluff, NE.

The *Weekly Weather and Crop Bulletin* (ISSN 0043-1974) is jointly prepared by the U.S. Department of Commerce, National Oceanic and Atmospheric Administration (NOAA) and the U.S. Department of Agriculture (USDA). Publication began in 1872 as the *Weekly Weather Chronicle*. It is issued under general authority of the Act of January 12, 1895 (44-USC 213), 53rd Congress, 3rd Session. The contents may be redistributed freely with proper credit.

Correspondence to the meteorologists should be directed to:
***Weekly Weather and Crop Bulletin*, NOAA/USDA, Joint Agricultural Weather Facility, USDA South Building, Room 4443B, Washington, DC 20250.**
Internet URL: **http://www.usda.gov/oce/weather**
E-mail address: ***brippey@oce.usda.gov***

The *Weekly Weather and Crop Bulletin* and archives are maintained on the following USDA Internet URL:
http://www.usda.gov/oce/weather/pubs/Weekly/Wwcb/index.htm

U.S. DEPARTMENT OF AGRICULTURE
World Agricultural Outlook Board
Managing Editor.....***Brad Rippey*** (202) 720-2397
Production Editor.....***Brian Morris*** (202) 720-3062
International Editor.....***Mark Brusberg*** (202) 720-3508
Editorial Advisors.....***Charles Wilbur and Brenda Chapin***
Agricultural Weather Analysts.....***Harlan Shannon and Eric Luebehusen***

National Agricultural Statistics Service
Agricultural Statistician and State Summaries Editor……
Brent Chittenden (202) 720-8068

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Weather Service/Climate Prediction Center
Meteorologists.....***David Miskus, Brad Pugh, and Adam Allgood***

USDA is an equal opportunity provider and employer. To file a complaint of discrimination, write: USDA, Office of the Assistant Secretary for Civil Rights, Office of Adjudication, 1400 Independence Ave., SW, Washington, DC 20250-9410 or call (866) 632-9992 (Toll-Free Customer Service), (800) 877-8339 (Local or Federal relay), (866) 377-8642 (Relay voice users).