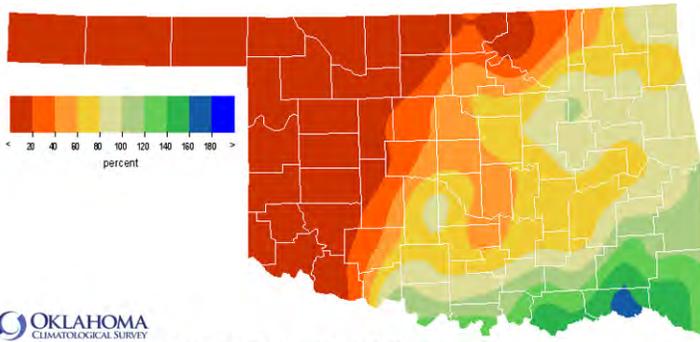


January 15, 2018

PRECIPITATION

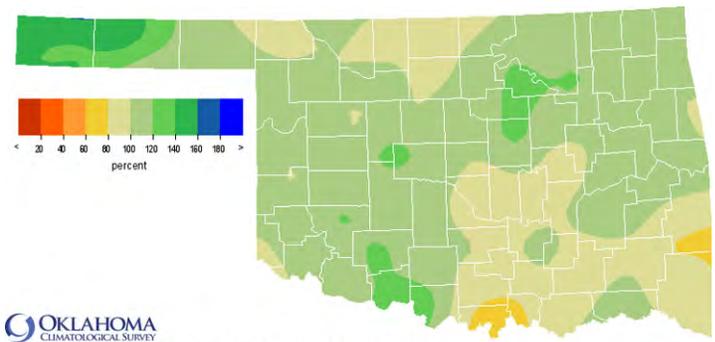
Statewide Precipitation

Climate Division	Last 30 Days December 16, 2017 – January 14, 2018				Last 365 Days January 15, 2017 – January 14, 2018			
	Total Rainfall (inches)	Departure From Normal (inches)	Percent of Normal	Rank Since 1921	Total Rainfall (inches)	Departure From Normal (inches)	Percent of Normal	RANK SINCE 1921
PANHANDLE	0.01"	-0.66"	2%	5th driest	24.94"	+4.36"	121%	10th wettest
NORTH CENTRAL	0.12"	-0.90"	12%	10th driest	32.04"	+0.62"	102%	34th wettest
NORTHEAST	1.28"	-0.71"	64%	48th driest	47.99"	+5.32"	112%	18th wettest
WEST CENTRAL	0.09"	-0.88"	9%	11th driest	31.45"	+3.05"	111%	15th wettest
CENTRAL	0.97"	-0.60"	62%	48th driest	40.14"	+2.51"	107%	22nd wettest
EAST CENTRAL	2.14"	-0.51"	81%	37th wettest	49.35"	+3.21"	107%	20th wettest
SOUTHWEST	0.29"	-0.85"	26%	27th driest	34.75"	+4.48"	115%	17th wettest
SOUTH CENTRAL	1.97"	-0.23"	90%	35th wettest	38.10"	-2.61"	94%	48th wettest
SOUTHEAST	4.24"	+1.01"	131%	23rd wettest	48.83"	-1.76"	97%	48th driest
STATEWIDE	1.20"	-0.50"	70%	47th driest	38.61"	+2.14"	106%	26th wettest



OKLAHOMA CLIMATOLOGICAL SURVEY
Percentage of 1981-2010 Normal Rainfall
Last 30 Days

Dec 16, 2017 through Jan 14, 2018

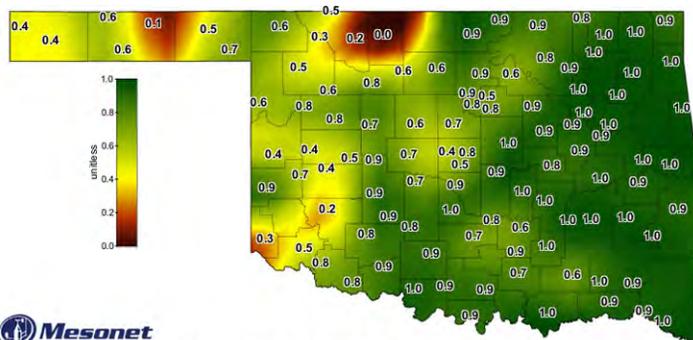


OKLAHOMA CLIMATOLOGICAL SURVEY
Percentage of 1981-2010 Normal Rainfall
Last 365 Days

Jan 15, 2017 through Jan 14, 2018

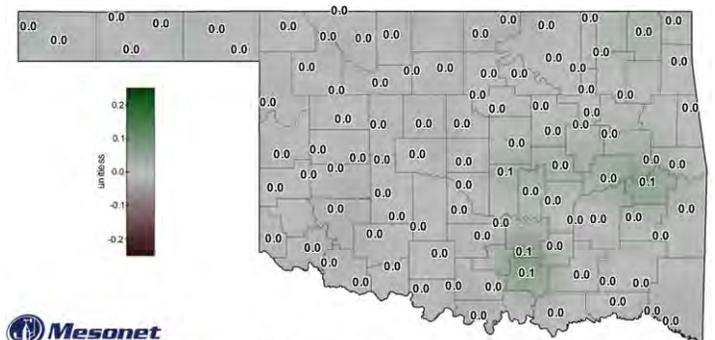
SOIL MOISTURE

Fractional Water Index January 14, 2018



Mesonet
1-day Average 10-inch Fractional Water Index
January 14, 2018

Created 8:50:13 AM January 15, 2018 CST. © Copyright 2018



Mesonet
7-day 10-inch Fractional Water Index Change
January 14, 2018

Created 8:50:13 AM January 15, 2018 CST. © Copyright 2018

The Fractional Water Index ranges from very dry soil having a value of 0 to soil at field capacity illustrated by a value of 1. [1.0-0.8 = Enhanced Growth; 0.8-0.5 = Limited Growth; 0.5-0.3 = Plants Wilting; 0.3-0.1 = Plants Dying; <0.1 = Barren Soil.]

DROUGHT INDICES

Palmer Drought Severity Index (PDSI)					Standardized Precipitation Index (SPI) Through November 2017*		
Climate Division	Status 1/6/18	Value 12/14 1/6		Change in Value	3-month	12-month	24-month
NORTHWEST	Near Normal	0.81	-0.1	0.91(-)	Near Normal	Moderately Moist	Abnormally Moist
NORTH CENTRAL	Near Normal	-0.23	-0.94	0.71(-)	Near Normal	Abnormally Moist	Abnormally Moist
NORTHEAST	Near Normal	-0.05	-0.48	0.43(-)	Near Normal	Moderately Moist	Abnormally Moist
WEST CENTRAL	Near Normal	0.25	-0.54	0.79(-)	Near Normal	Moderately Moist	Moderately Moist
CENTRAL	Near Normal	-0.01	-0.46	0.45(-)	Near Normal	Moderately Moist	Abnormally Moist
EAST CENTRAL	Near Normal	0.04	-0.33	0.37(-)	Moderately Dry	Abnormally Moist	Abnormally Moist
SOUTHWEST	Near Normal	1.73	1.01	0.72(-)	Near Normal	Moderately Moist	Extremely Moist
SOUTH CENTRAL	Near Normal	-0.98	-0.63	0.35(+)	Moderately Dry	Near Normal	Abnormally Moist
SOUTHEAST	Near Normal	-1.01	-0.3	0.71(+)	Exceptionally Dry	Near Normal	Near Normal

extreme drought -4.0 or less	severe drought -3.0 to -3.9	moderate drought -2.0 to -2.9	near normal -1.9 to +1.9	unusual moist spell +2.0 to +2.9	very moist spell +3.0 to +3.9	extremely moist +4.0 and above
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exceptionally dry -2.00 and below	extremely dry -1.99 to -1.60	severely dry -1.59 to -1.30	moderately dry -1.29 to -0.80	abnormally dry -0.79 to -0.51	near normal -0.50 to +0.50	abnormally moist +0.51 to +0.79	moderately moist +0.80 to +1.29	very moist +1.30 to +1.59	extremely moist +1.60 to +1.99	exceptionally moist +2.0 and above
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*SPI has not been updated to include December 2017.

The SPI provides a comparison of precipitation over several specified periods with totals from the same periods for all years included in the historical record.

The PDSI is based upon precipitation, temperature, and soil moisture, and is considered most effective for unirrigated cropland, spanning from -10 (dry) to +10 (wet). According to the latest PDSI, all climate regions in the state are experiencing near normal conditions but since November 11, the PDSI values for all regions have decreased.

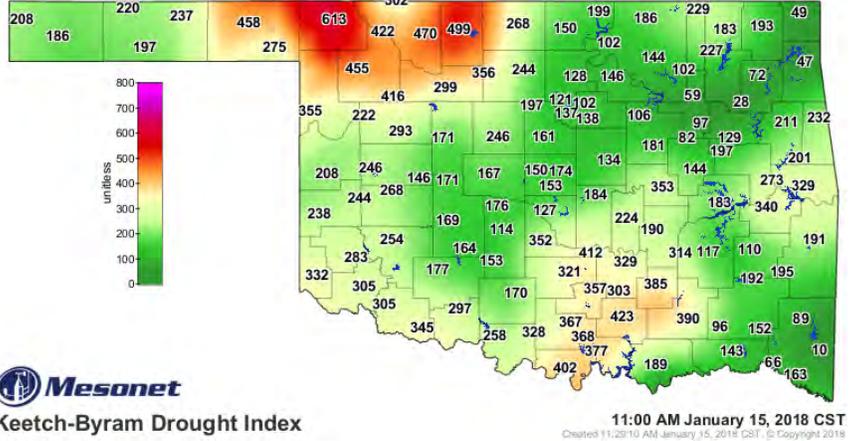
Keetch-Byram Drought Fire Index

January 15, 11:00 a.m.--1 station is above 600.

STATION	REGION	KBDI
Buffalo	Northwest	613

One station was above 600 on Dec. 15, 2017.

The Keetch-Byram Drought Index measures the state of near-surface soil moisture (within the uppermost eight inches of soil) as well as the amount of fuel available for fires. KBDI values of 600 and above are often associated with more severe drought and increased wildfire occurrence.



Mesonet
Keetch-Byram Drought Index

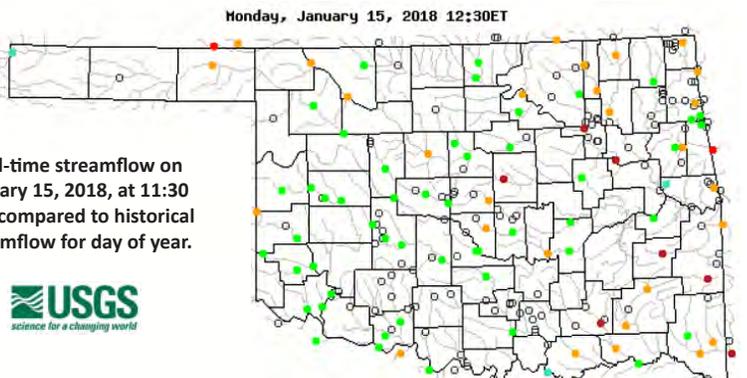
STREAMFLOW CONDITIONS

January 15, 2018

Explanation - Percentile classes						
●	●	●	●	●	●	●
Low	<10 Much below normal	10-24 Below normal	25-75 Normal	76-90 Above normal	>90 Much above normal	High
						Not ranked

Visit waterwatch.usgs.gov for real-time streamflow information.

Real-time streamflow on January 15, 2018, at 11:30 a.m. compared to historical streamflow for day of year.



WEATHER/DROUGHT FORECAST

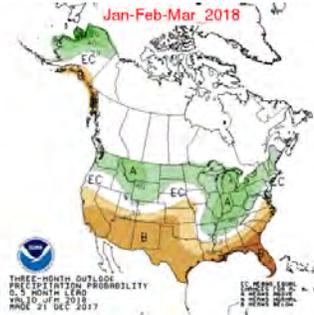
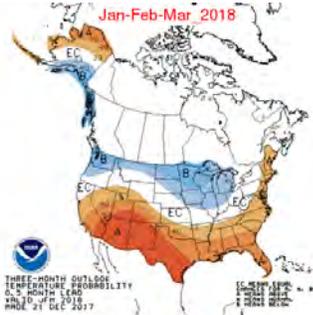
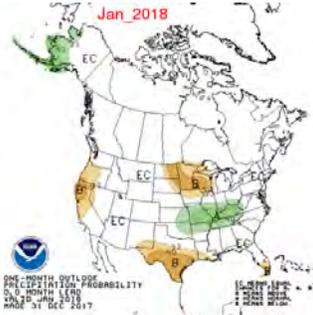
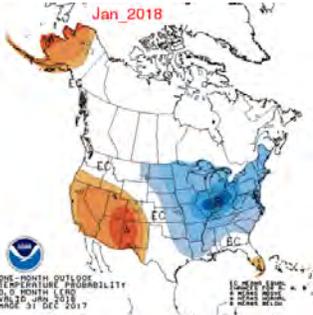
Seasonal Outlook

Temperature

Precipitation

Temperature

Precipitation



The contours on the maps show the total probability of three categories—above, indicated by the letter “A”; and below, indicated by the letter “B”. “EC” indicates “Equal Chances” for A or B.

Drought Summary & Outlook

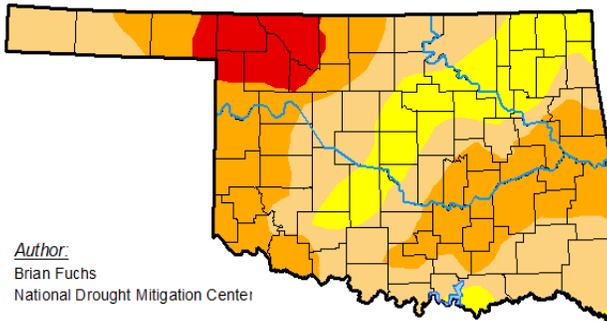
U.S. Drought Monitor Oklahoma

January 9, 2018

(Released Thursday, Jan. 11, 2018)

Valid 7 a.m. EST

Drought Conditions (Percent Area)



Author:
Brian Fuchs
National Drought Mitigation Center



<http://droughtmonitor.unl.edu/>

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	0.00	100.00	82.65	42.11	7.03	0.00
Last Week 01-02-2018	0.00	100.00	77.15	38.76	0.00	0.00
3 Months Ago 10-10-2017	68.40	31.60	11.57	0.00	0.00	0.00
Start of Calendar Year 01-02-2018	0.00	100.00	77.15	38.76	0.00	0.00
Start of Water Year 09-26-2017	64.46	35.54	0.77	0.00	0.00	0.00
One Year Ago 01-10-2017	2.81	97.19	87.61	58.35	5.66	0.00

Intensity

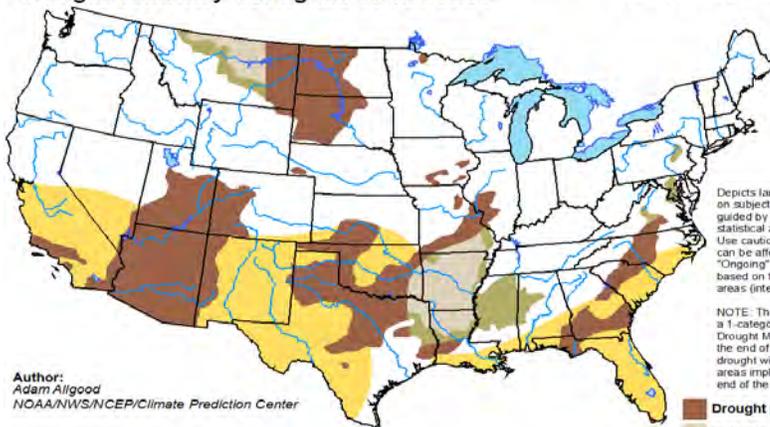
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

According to the latest *U.S. Drought Monitor*, as of January 9, the number of Oklahomans experiencing drought conditions has risen to 1,706,965, up by more than 500,000 from this time last month. The entire state has abnormally dry conditions or worse. Almost 83% of the state (in area) is experiencing moderate drought conditions (D1) or worse, while more than 42% has severe drought (D2) conditions or worse, and 7% is in extreme drought (D3). There are no areas with exceptional drought (D4) conditions.

U.S. Seasonal Drought Outlook Drought Tendency During the Valid Period

Valid for December 21 - March 31, 2018
Released December 21, 2017



Author:
Adam Aligood
NOAA/NWS/NCEP/Climate Prediction Center

Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. “Ongoing” drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to D4).

NOTE: The tan areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period, although drought will remain. The green areas imply drought removal by the end of the period (D0 or none).

- Drought persists
- Drought remains but improves
- Drought removal likely
- Drought development likely



<http://go.usa.gov/3eZ73>

According to the latest seasonal drought outlook for the period of December 21, 2017, through March 31, 2018, a large portion of the state will either remain in persistent drought or develop drought conditions. There are predicted to be multiple areas of persistent drought across the southern half of the United States and a large part of eastern Montana and western North and South Dakota.

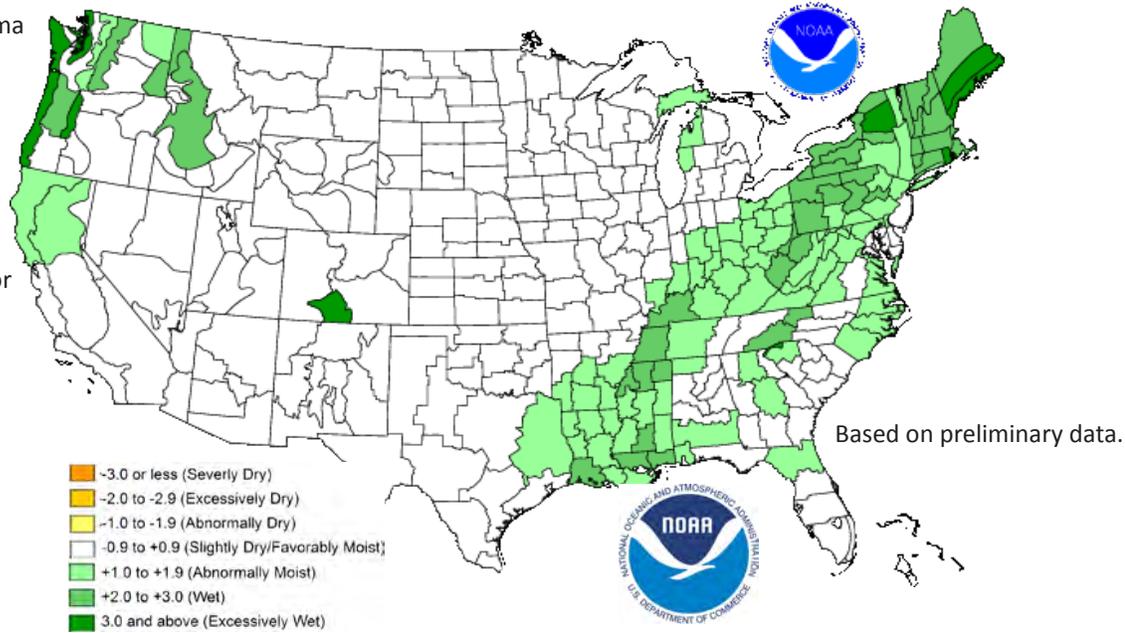
CROP MOISTURE INDEX

Crop Moisture Index by Division
Weekly Value for Period Ending JAN 13, 2018

Short Term Need vs. Available Water in a Shallow Soil Profile

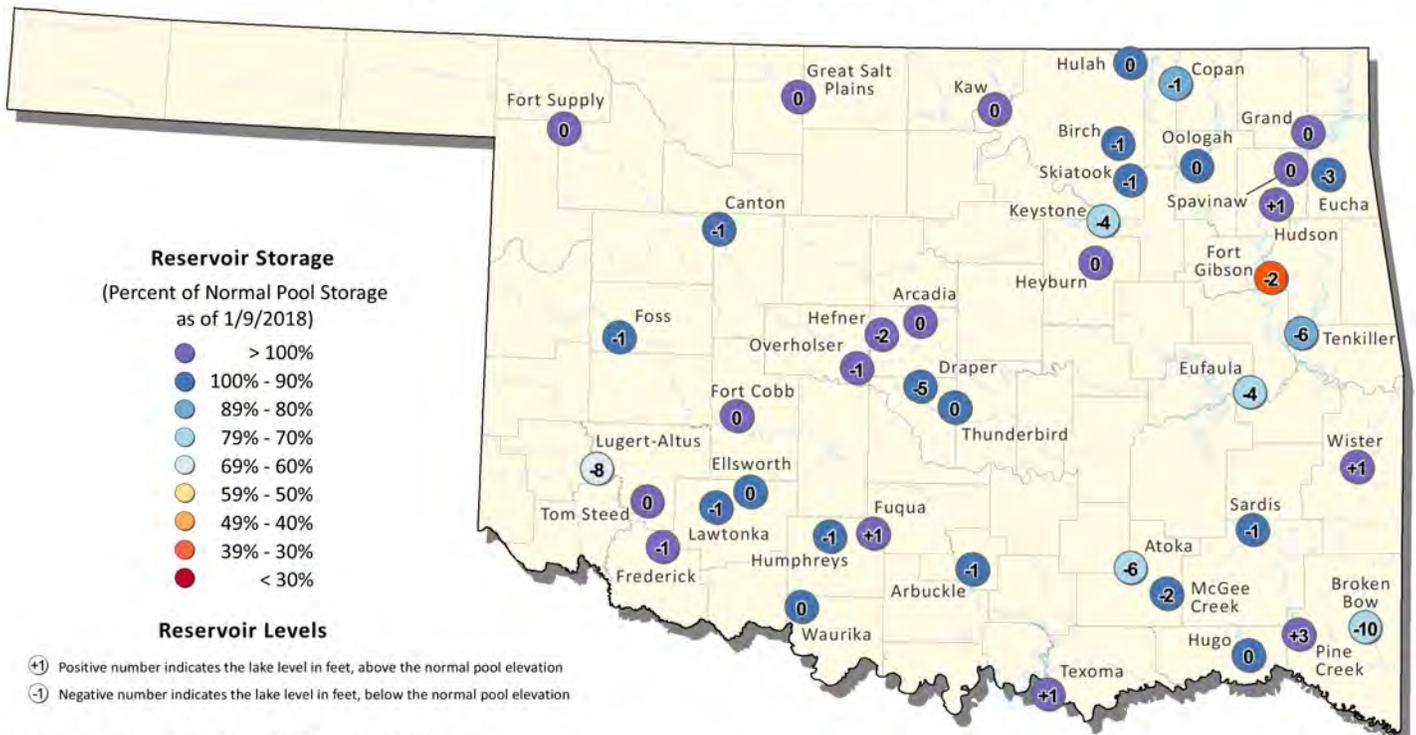
According to the NOAA Crop Moisture Index by Division, for the period ending January 13, 2018, all Oklahoma climate regions are experiencing Slightly Dry/Favorably Moist conditions (-0.9 to +0.9).

Derived from the Palmer Drought Severity Index (PDSI), the Crop Moisture Index reflects moisture supply in the short-term across major crop-producing regions. It identifies potential agricultural droughts. It is not intended to assess long-term droughts.

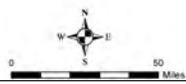


RESERVOIR STORAGE

Oklahoma Surface Water Resources Reservoir Levels and Storage as of 1/9/2018



This map shows reservoir storage as a percentage of normal pool storage capacity. The source information was collected from real-time lake gages monitored by the U.S. Army Corps of Engineers (http://www.swt-wc.usace.army.mil/old_resvprept.htm), and the U.S. Geological Survey (http://waterdata.usgs.gov/ok/nwis/current/?type=lake&group_key=basin_cd). For more information please visit the OWRB's website at: (<http://www.owrb.ok.gov>)



The Oklahoma Water Resources Bulletin is compiled and distributed monthly by the Oklahoma Water Resources Board utilizing products and information developed by the Oklahoma Climatological Survey, Oklahoma Mesonet, National Oceanic and Atmospheric Administration, National Drought Mitigation Center, US Geological Survey, US Army Corps of Engineers, and US Department of Agriculture. For questions or comments contact Darla Whitley, Editor.