

NWS FORM E-5 (11-88) (PRES. by NWS Instruction 10-924)	U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL WEATHER SERVICE	HYDROLOGIC SERVICE AREA (HSA)	
		Tulsa, Oklahoma (TSA)	
MONTHLY REPORT OF RIVER AND FLOOD CONDITIONS		REPORT FOR:	
		MONTH April	YEAR 2016
TO: Hydrometeorological Information Center, W/OH2 NOAA / National Weather Service 1325 East West Highway, Room 7230 Silver Spring, MD 20910-3283		SIGNATURE Steven F. Piltz (Meteorologist-in-Charge)	
		DATE May 15, 2016	

When no flooding occurs, include miscellaneous river conditions, such as significant rises, record low stages, ice conditions, snow cover, droughts, and hydrologic products issued (NWS Instruction 10-924)

An "X" in the box indicates no flood stages were reached in this Hydrologic Service Area (HSA) during the month above.

While portions of the area saw below normal rainfall in April 2016, a large portion of eastern OK and west central AR received above normal precipitation, resulting in some flooding this month. 22 weak tornadoes also occurred this month. Normal precipitation for the month of April ranges from 3.1 inches in Pawnee County to 4.7 inches in Latimer County. The Ozark region of northwest Arkansas averages 4.3 inches for the month. This report, past E-5 reports, and monthly hydrology and climatology summaries can be found at <http://www.srh.noaa.gov/tsa/?n=hydro-monthly-summary>.

Monthly Summary

Using the radar-derived estimated observed precipitation from the RFCs (Fig. 1a), rainfall totals for April 2016 ranged from 2" to near 10". A large portion of the HSA received 4"-8" of rain this month. This corresponds to 50%-90% of the normal April rain across portions of Osage, Washington, and Adair Counties in northeast OK and Benton, Washington, Franklin, Madison, and Carroll Counties in northwest AR (Fig. 1b). The remainder of eastern OK and west central AR received 110% to 200% of the normal April rain.

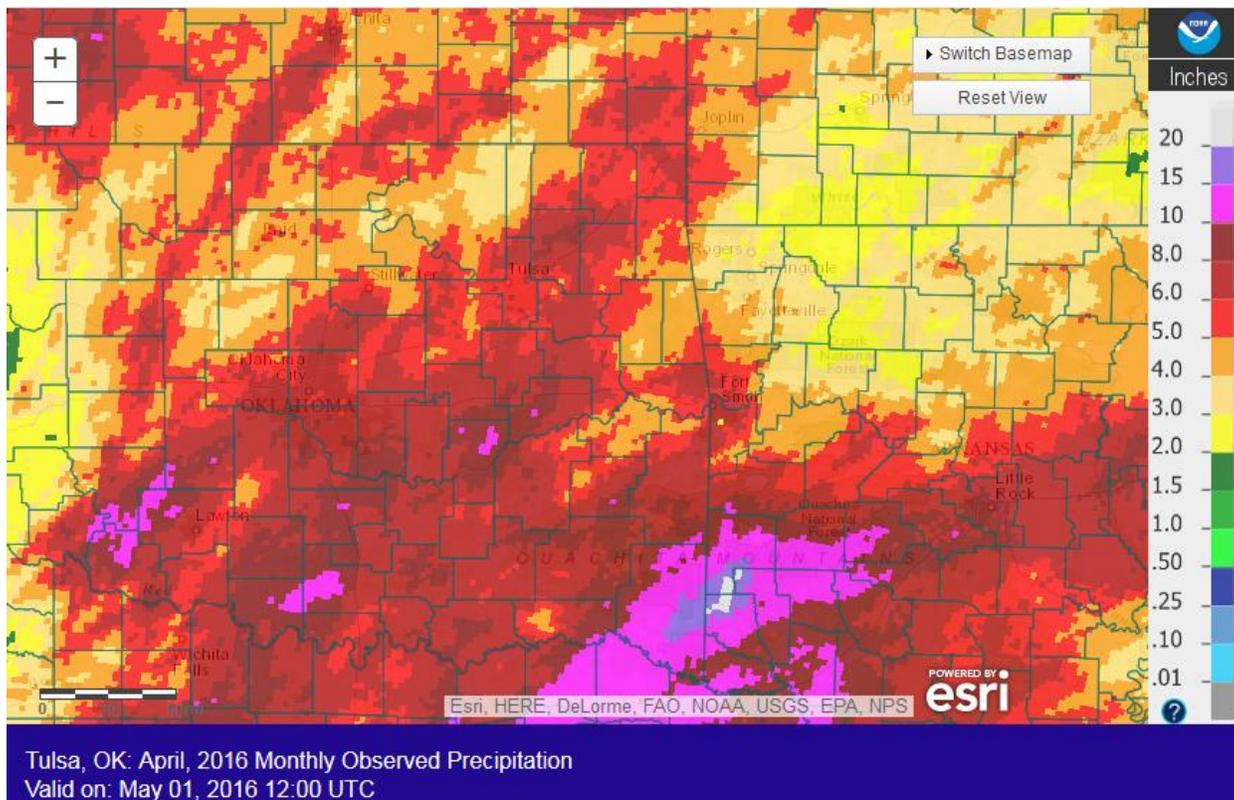


Fig. 1a. Estimated Observed Rainfall for April 2016

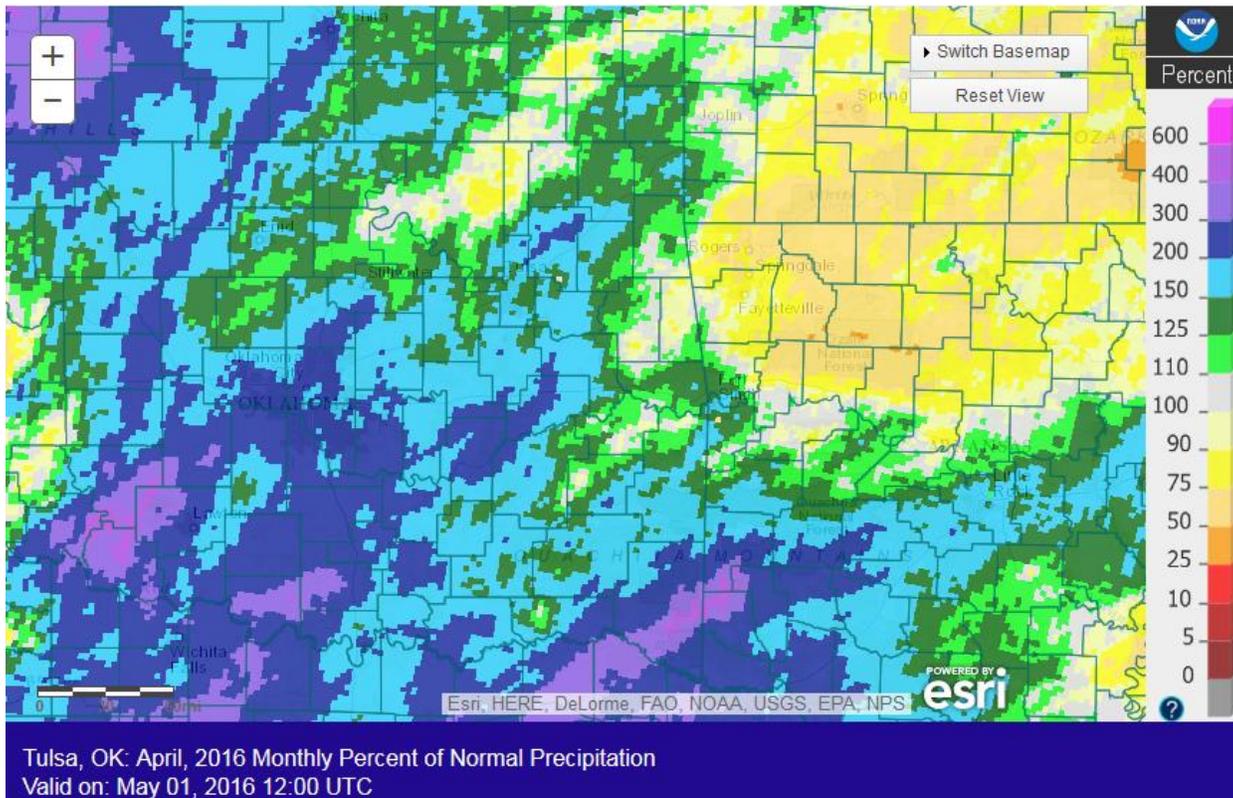


Fig. 1b. Estimated % of Normal Rainfall for April 2016

In Tulsa, OK, April 2016 ranked as the 26th warmest April (63.2°F, tied 1989; since records began in 1905) and the 25th wettest April (5.89"; since records began in 1888). Fort Smith, AR had the 29th warmest April (63.8°F; since records began in 1883) and the 28th wettest April (6.05"; since records began in 1883). Fayetteville, AR had the 29th warmest (58.0°F) and the 34th wettest and driest (3.95") April since records began in 1950.

Tulsa had 3.0" of snow this cold season (tied 1902-03, 1907-08), ranking as 19th least snowiest since records began in 1900-01. Fort Smith only had a trace of snow this cold season (tied 2008-09, 2003-04, 2001-02, 1997-98, 1992-93, 1991-92, 1962-63, 1956-57), ranking as 5th least snowiest since records began in 1883-84. Fayetteville also only had a trace of snow this cold season, ranking as 4th least snowiest since records began in 1949-50.

Rainfall for the 1-year period May 1, 2015-May 1, 2016 ranked as the wettest such period at Ft. Smith 74.04" (using a 134-year record, previous record 62.62" 1984-85), at Fayetteville (63.99" using 63-year record, previous record 60.34" 1992-93), and at McAlester 77.76" (using a 59-year record, previous record 62.85" 1992-93). Tulsa ranked as the 2nd wettest period 61.61" (using an 85-year record, current record 62.73" 1974-75) (see Figs. 2a, b).

Some of the larger precipitation reports (in inches) for April 2016 included:

Cloudy, OK (meso)	8.78	Claremore 7.5W, OK (coco)	8.59	Clayton, OK (meso)	8.53
Antlers 5NW, OK (coop)	8.52	Owasso 1.8SE, OK (coco)	8.17	Claremore 2ENE, OK (coop)	8.11
Wister, OK (meso)	7.85	McAlester, OK (meso)	7.55	Fanshawe, OK (coop)	7.27

Some of the lowest precipitation reports (in inches) for April 2016 included:

Busch 0.4E, AR (coco)	3.04	Fayetteville, AR (ASOS)	3.07	Kingston, AR (coop)	3.10
Kingston 2S, AR (coop)	3.23	Hindsville 10NNE, OK (coop)	3.26	Ozark, AR (coop)	3.55
Bartlesville, OK (ASOS)	3.56	St. Paul, AR (coop)	3.58	Springdale 6.4 WSW, AR (GHCN)	3.62

According to statistics from the [Oklahoma Climatological Survey \(OCS\) Mesonet](#):

Rank since 1921	April 2016	Spring-to-Date (Mar 1 – Apr 30)	Last 90 Days (Feb 1 – Apr 30)	Year-to-Date (Jan 1 – Apr 30)	Last 180 Days (Nov 3 – Apr 30)	Water Year-to-Date (Oct 1 – Apr 30)	Last 365 Days (May 2, 2015-Apr 30, 2016)
Northeast OK	21 st wettest	36 th wettest	46 th wettest	36 th driest	3 rd wettest	7 th wettest	2 nd wettest
East Central OK	23 rd wettest	20 th wettest	31 st wettest	47 th driest	2 nd wettest	4 th wettest	1 st wettest
Southeast OK	7 th wettest	7 th wettest	17 th wettest	8 th wettest	1 st wettest	1 st wettest	1 st wettest
Statewide	6 th wettest	11 th wettest	22 nd wettest	17 th wettest	1 st wettest	4 th wettest	1 st wettest

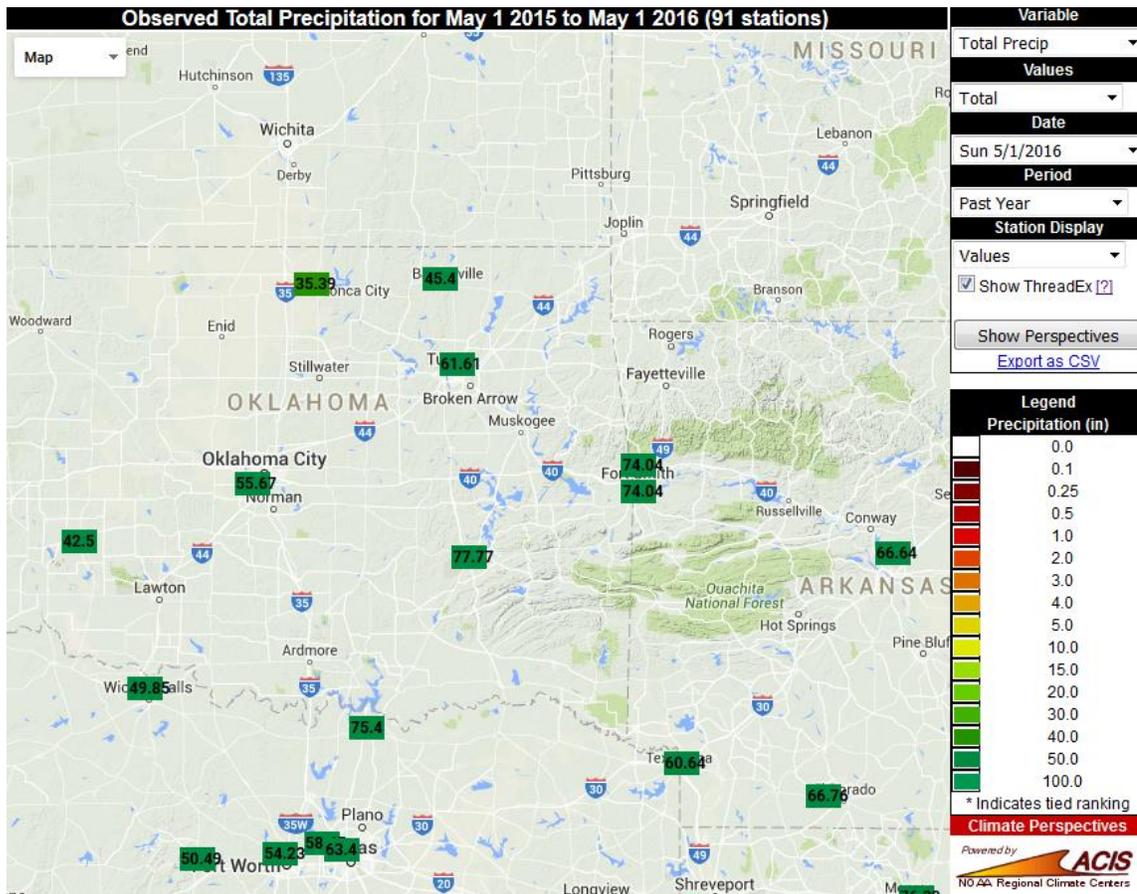


Fig. 2a. Rainfall total (in inches) for May 1, 2015-May 1, 2016.

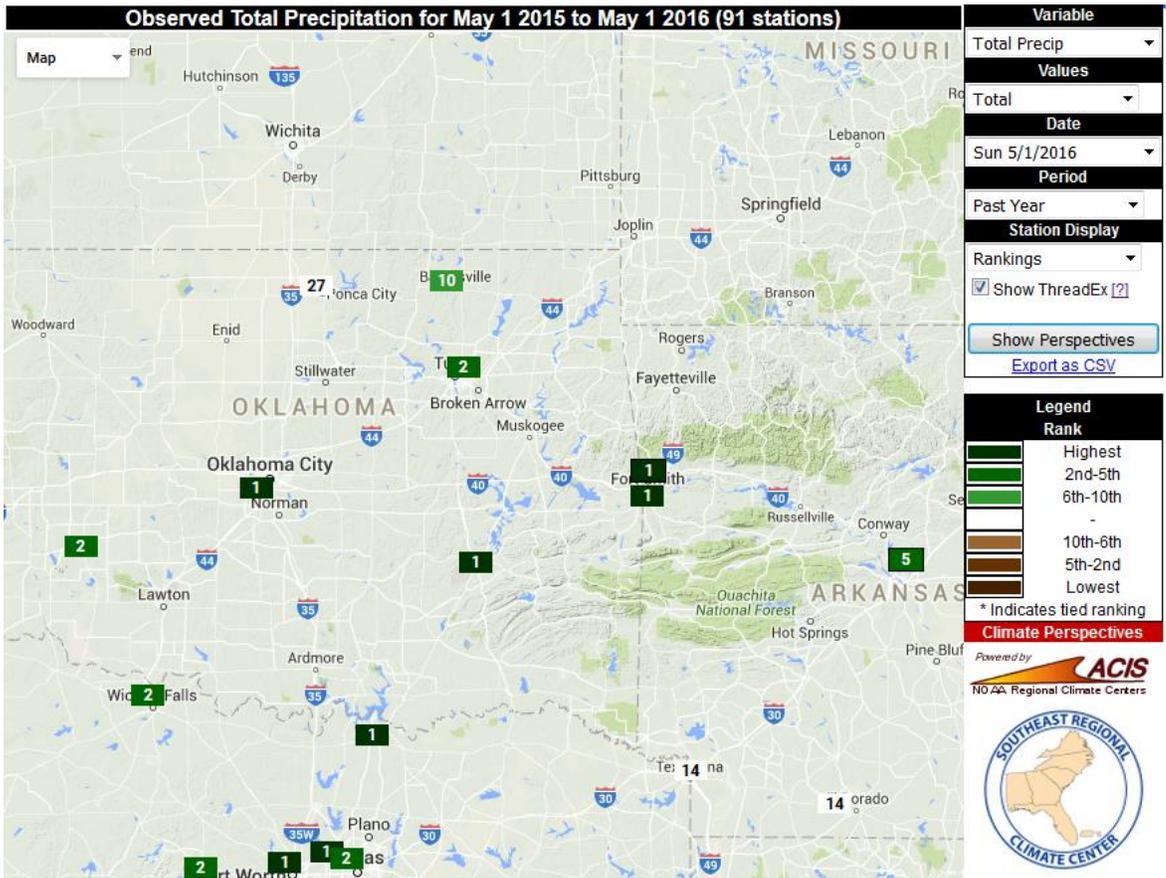
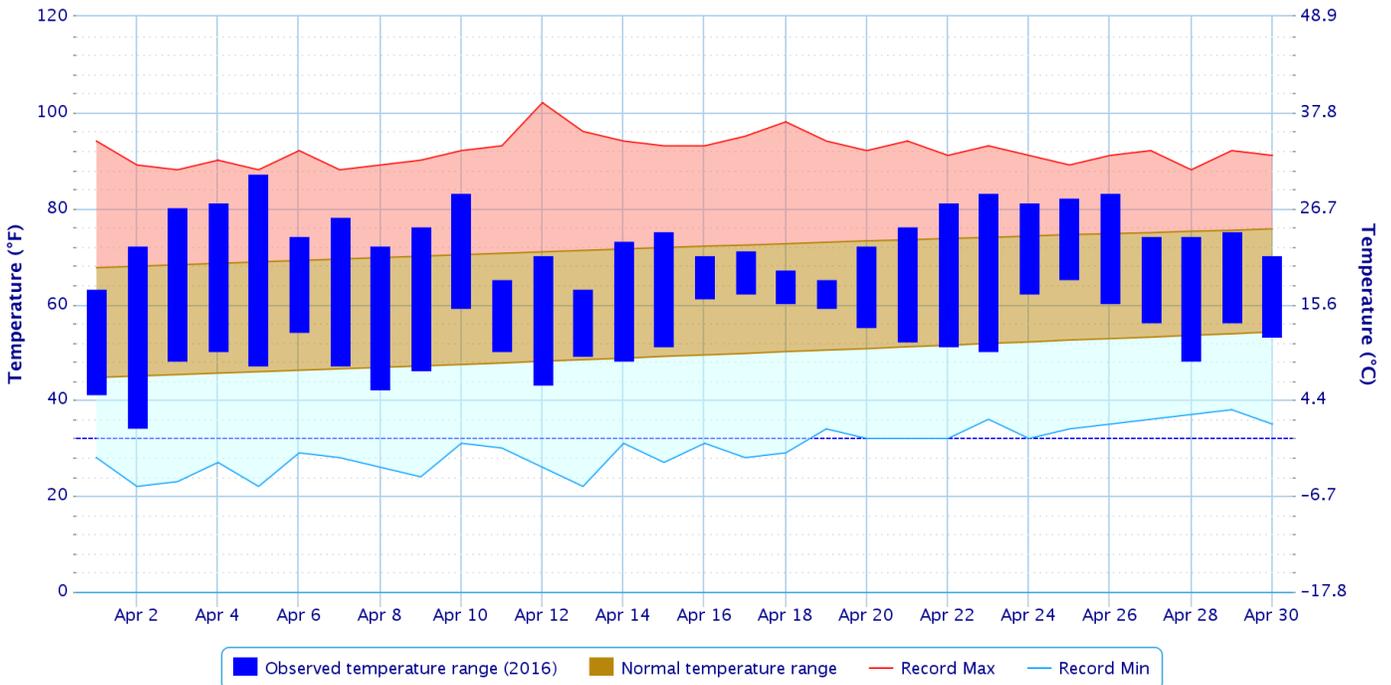


Fig. 2b. Rainfall Ranking for May 1, 2015-May 1, 2016.

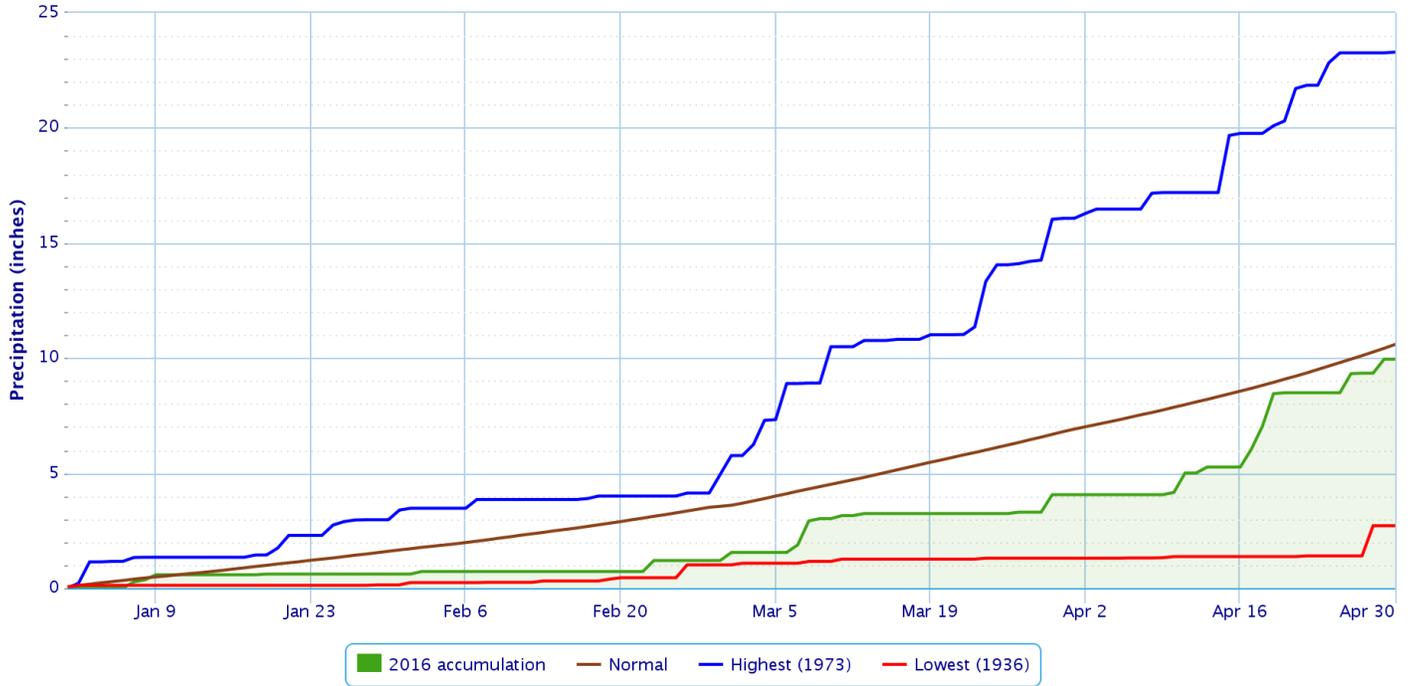
Daily Temperature Data – Tulsa Area, OK (ThreadEx)

Period of Record – 1905-01-06 to 2016-05-01. Normals period: 1981-2010. Click and drag to zoom chart.



Accumulated Precipitation – Tulsa Area, OK (ThreadEx)

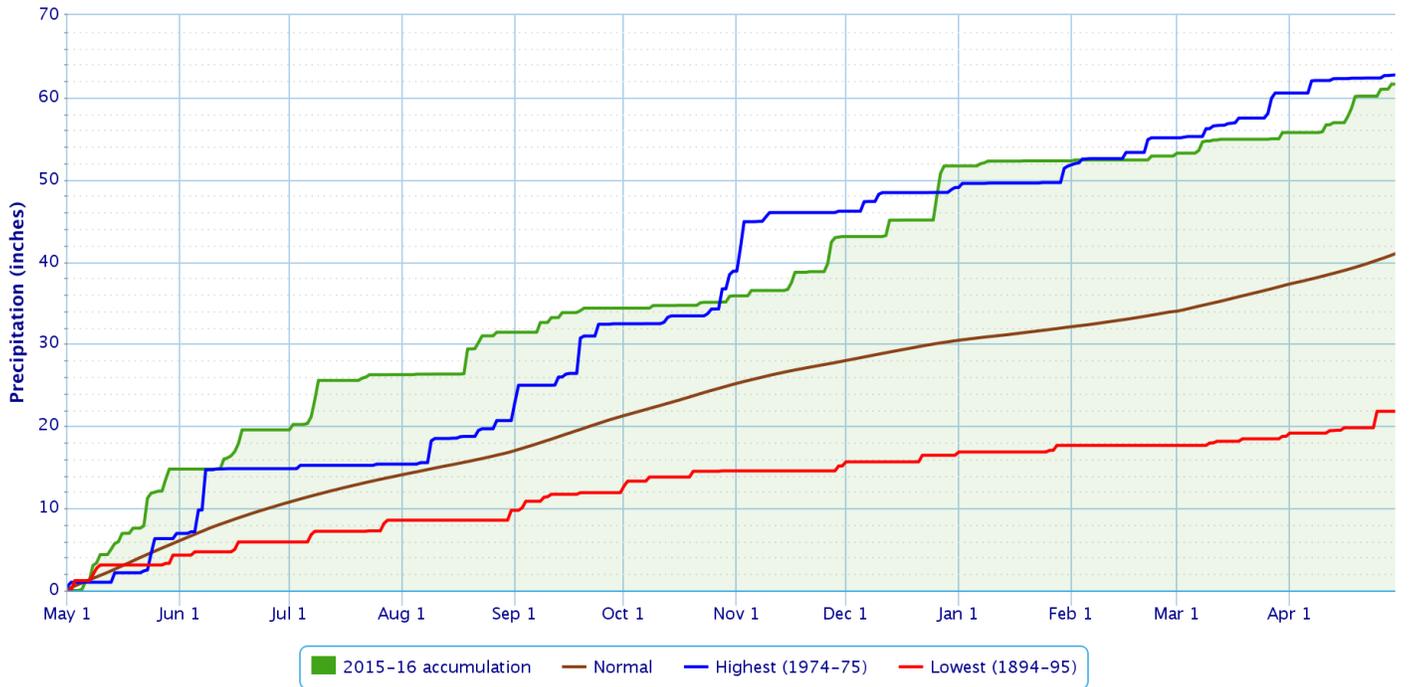
Click and drag to zoom to a shorter time interval; green/black diamonds represent subsequent/missing values



Powered by ACIS

Accumulated Precipitation – Tulsa Area, OK (ThreadEx)

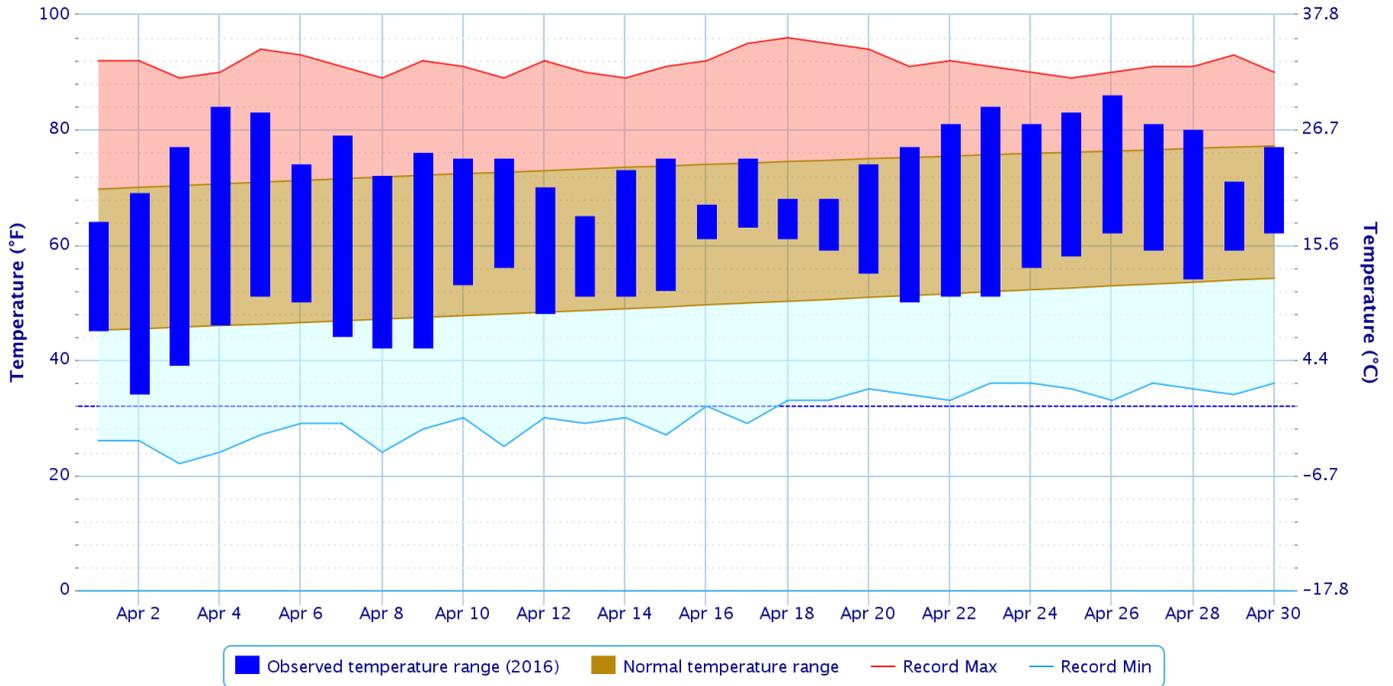
Click and drag to zoom to a shorter time interval; green/black diamonds represent subsequent/missing values



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Daily Temperature Data – Fort Smith Area, AR (ThreadEx)

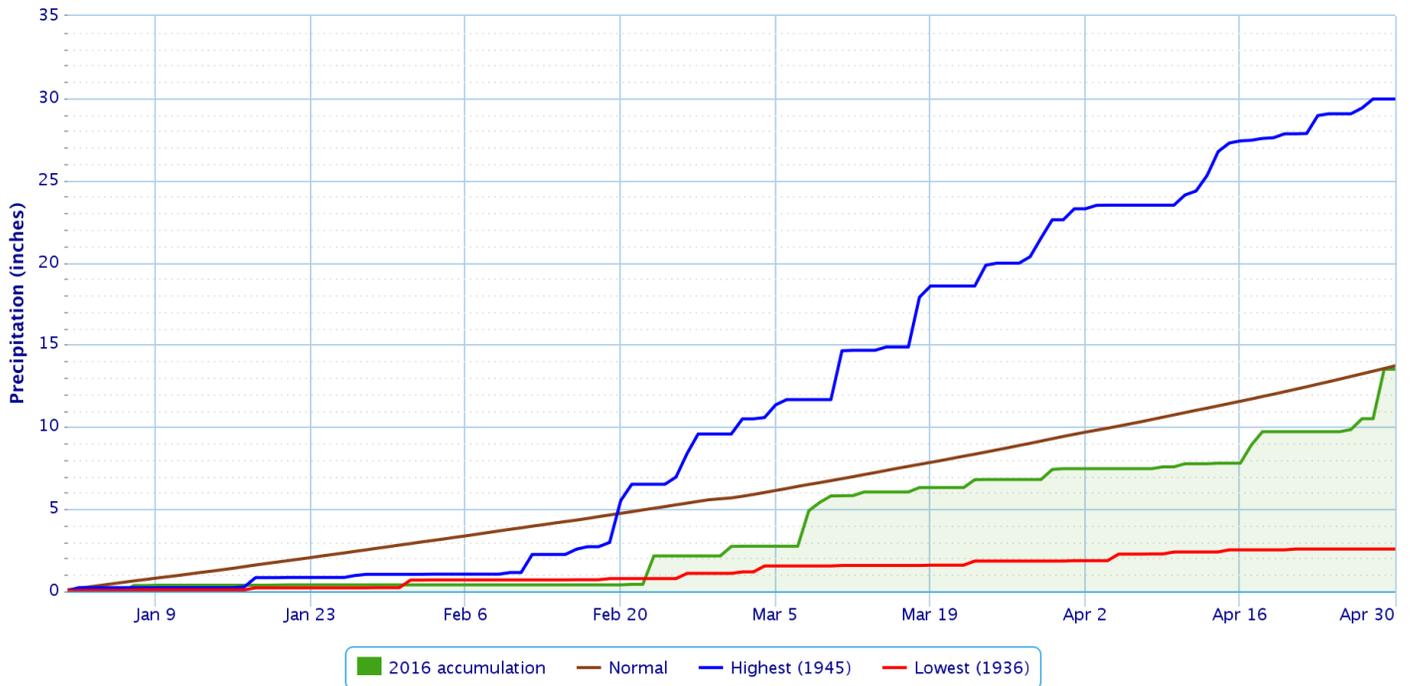
Period of Record – 1882-06-01 to 2016-05-01. Normals period: 1981-2010. Click and drag to zoom chart.



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Accumulated Precipitation – Fort Smith Area, AR (ThreadEx)

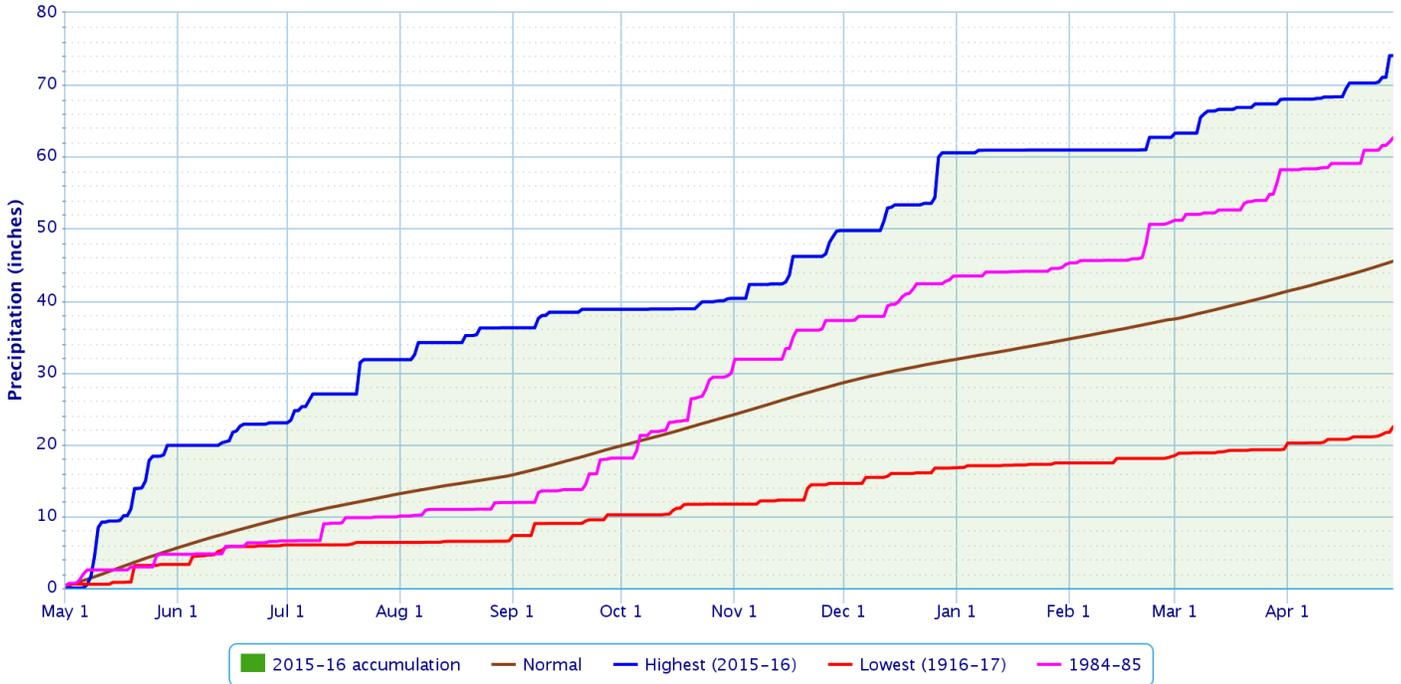
Click and drag to zoom to a shorter time interval; green/black diamonds represent subsequent/missing values



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Accumulated Precipitation – Fort Smith Area, AR (ThreadEx)

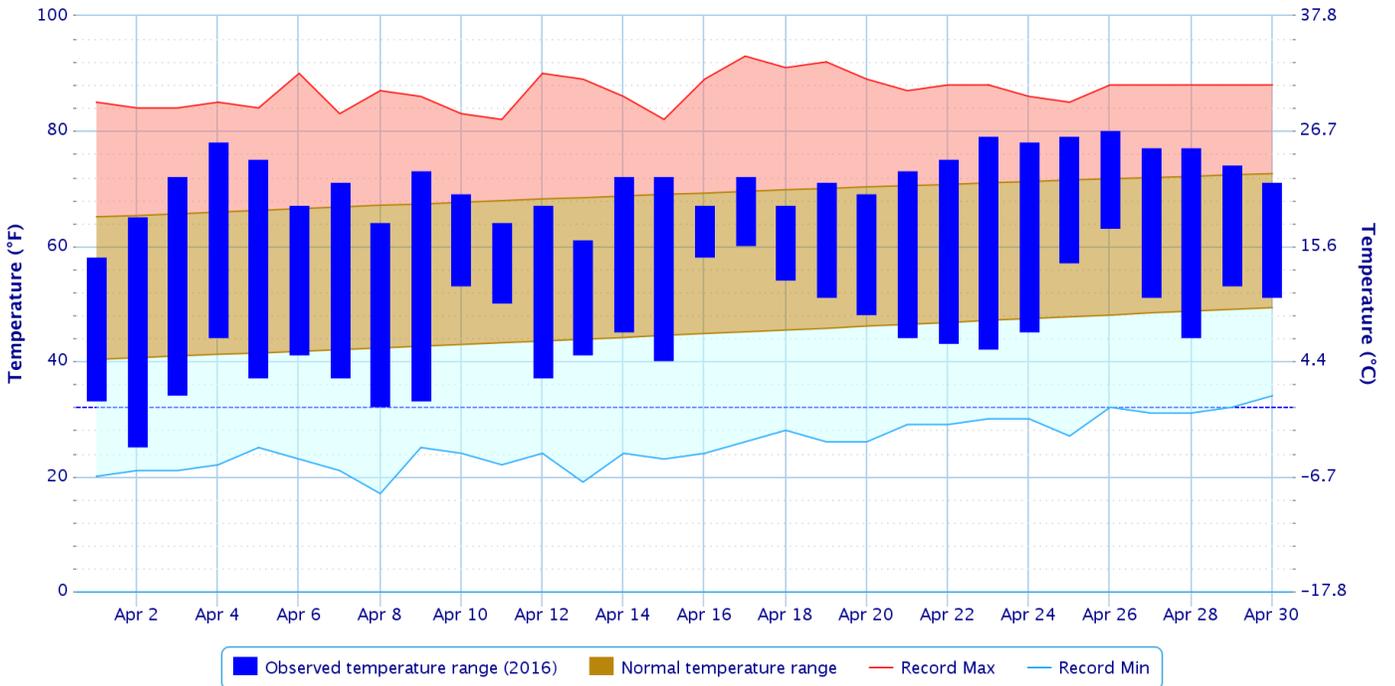
Click and drag to zoom to a shorter time interval; green/black diamonds represent subsequent/missing values



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Daily Temperature Data – FAYETTEVILLE DRAKE FLD, AR

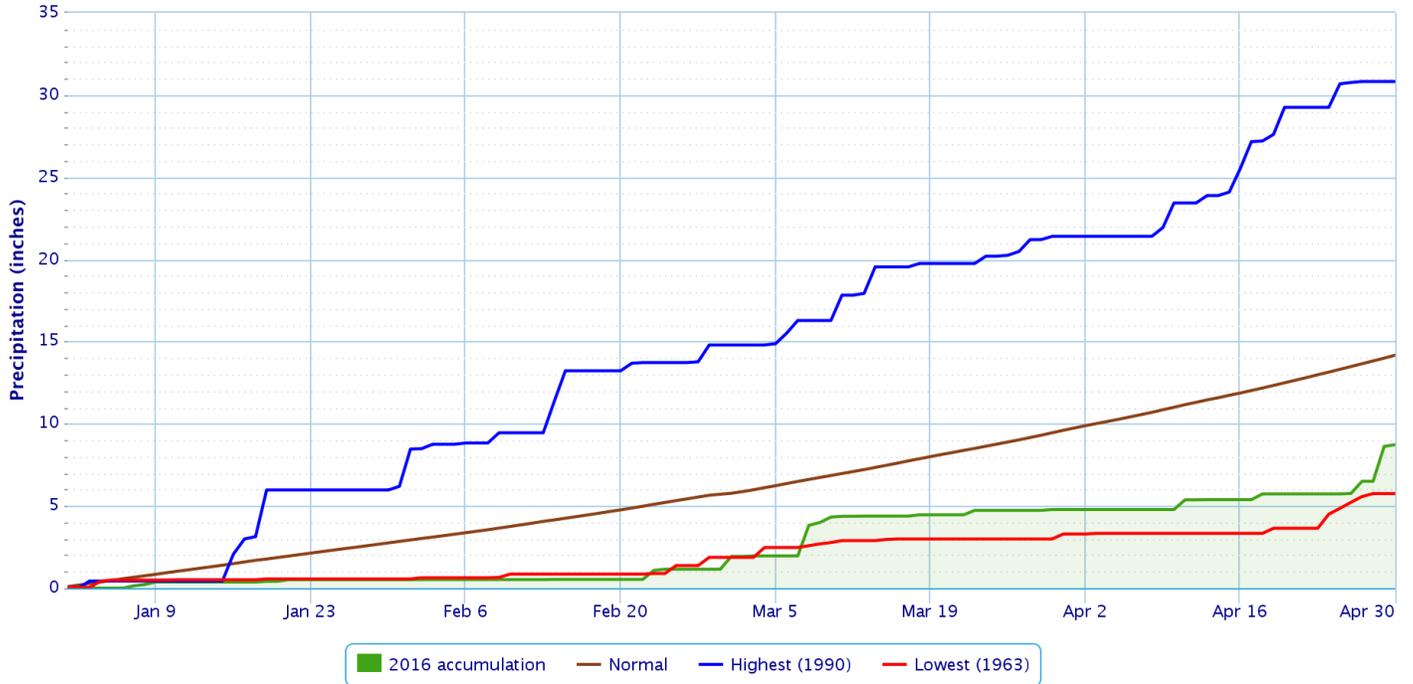
Period of Record – 1949-07-14 to 2016-05-01. Normals period: 1981-2010. Click and drag to zoom chart.



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Accumulated Precipitation – FAYETTEVILLE DRAKE FLD, AR

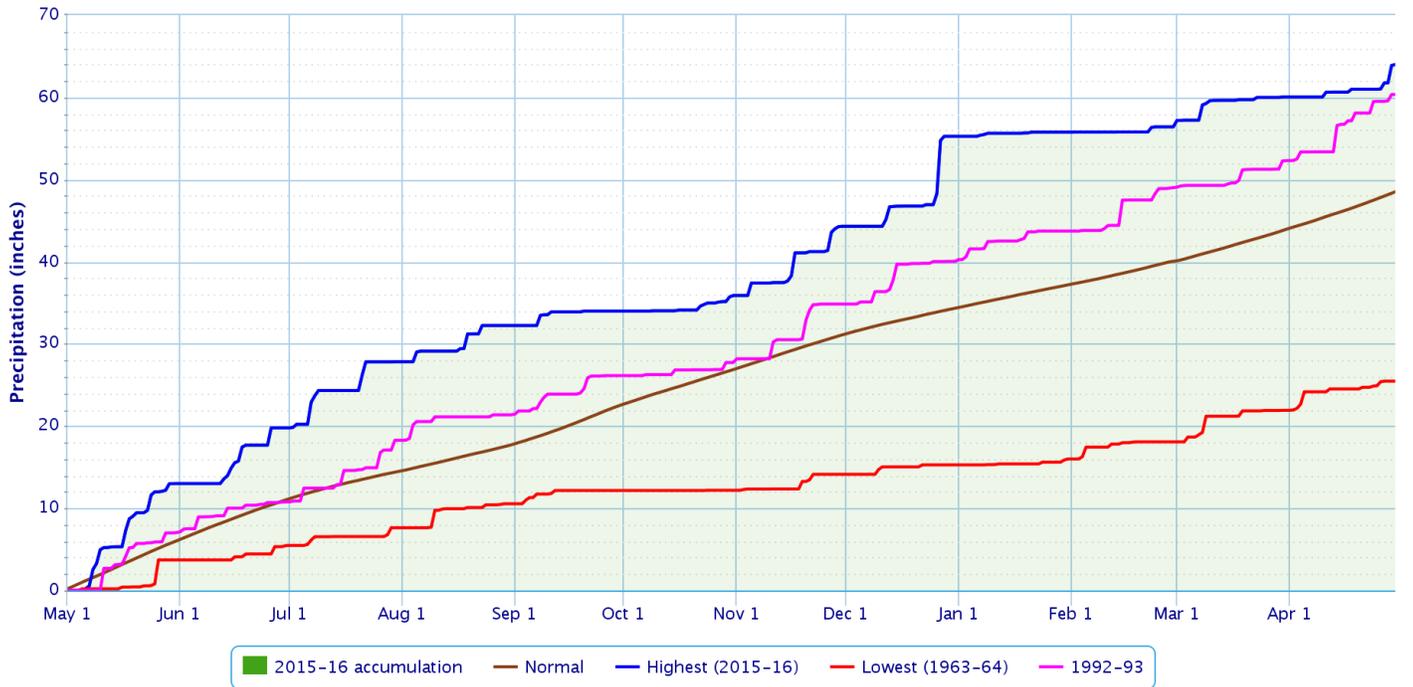
Click and drag to zoom to a shorter time interval; green/black diamonds represent subsequent/missing values



Powered by ACIS

Accumulated Precipitation – FAYETTEVILLE DRAKE FLD, AR

Click and drag to zoom to a shorter time interval; green/black diamonds represent subsequent/missing values

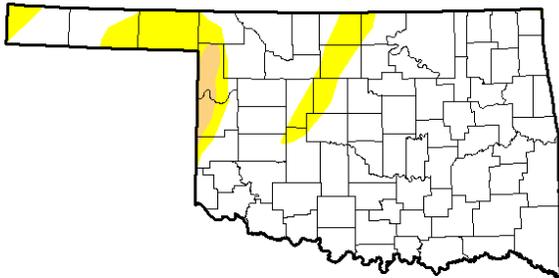


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Drought

According to the [U.S. Drought Monitor](#) (USDM) from May 3, 2016 (Figs. 3, 4), there were no drought conditions present in eastern OK and northwest AR. However, abnormally dry conditions were present across portions of Washington, Benton, Carroll, and Madison Counties in Arkansas.

U.S. Drought Monitor Oklahoma



May 3, 2016
(Released Thursday, May 5, 2016)
Valid 8 a.m. EDT

	Drought Conditions (Percent Area)					
	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	87.75	12.25	1.67	0.00	0.00	0.00
Last Week 4/26/2016	56.23	43.77	10.30	1.65	0.00	0.00
3 Months Ago 2/2/2016	100.00	0.00	0.00	0.00	0.00	0.00
Start of Calendar Year 12/29/2015	100.00	0.00	0.00	0.00	0.00	0.00
Start of Water Year 9/29/2015	52.60	47.40	16.79	6.37	0.97	0.00
One Year Ago 5/5/2015	29.24	70.76	59.05	46.19	17.95	4.03

Intensity:



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

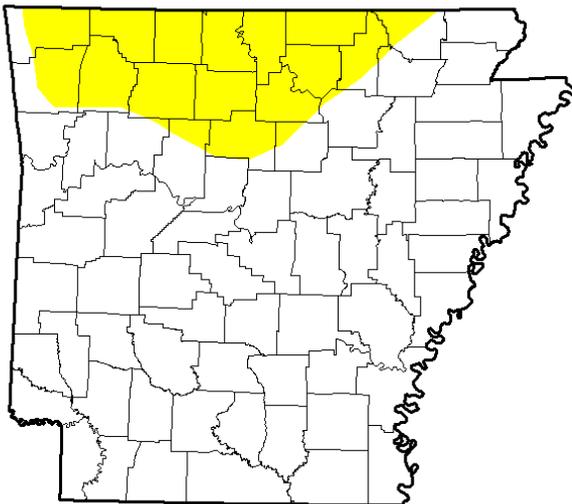
Author:
Brian Fuchs
National Drought Mitigation Center



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

Fig. 3. Drought Monitor for Oklahoma

U.S. Drought Monitor Arkansas



May 3, 2016
(Released Thursday, May 5, 2016)
Valid 8 a.m. EDT

	Drought Conditions (Percent Area)					
	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	82.09	17.91	0.00	0.00	0.00	0.00
Last Week 4/26/2016	71.25	28.75	0.00	0.00	0.00	0.00
3 Months Ago 2/2/2016	100.00	0.00	0.00	0.00	0.00	0.00
Start of Calendar Year 12/29/2015	100.00	0.00	0.00	0.00	0.00	0.00
Start of Water Year 9/29/2015	39.30	60.70	42.41	16.89	4.64	0.00
One Year Ago 5/5/2015	94.48	5.52	0.00	0.00	0.00	0.00

Intensity:



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

Author:
Brian Fuchs
National Drought Mitigation Center



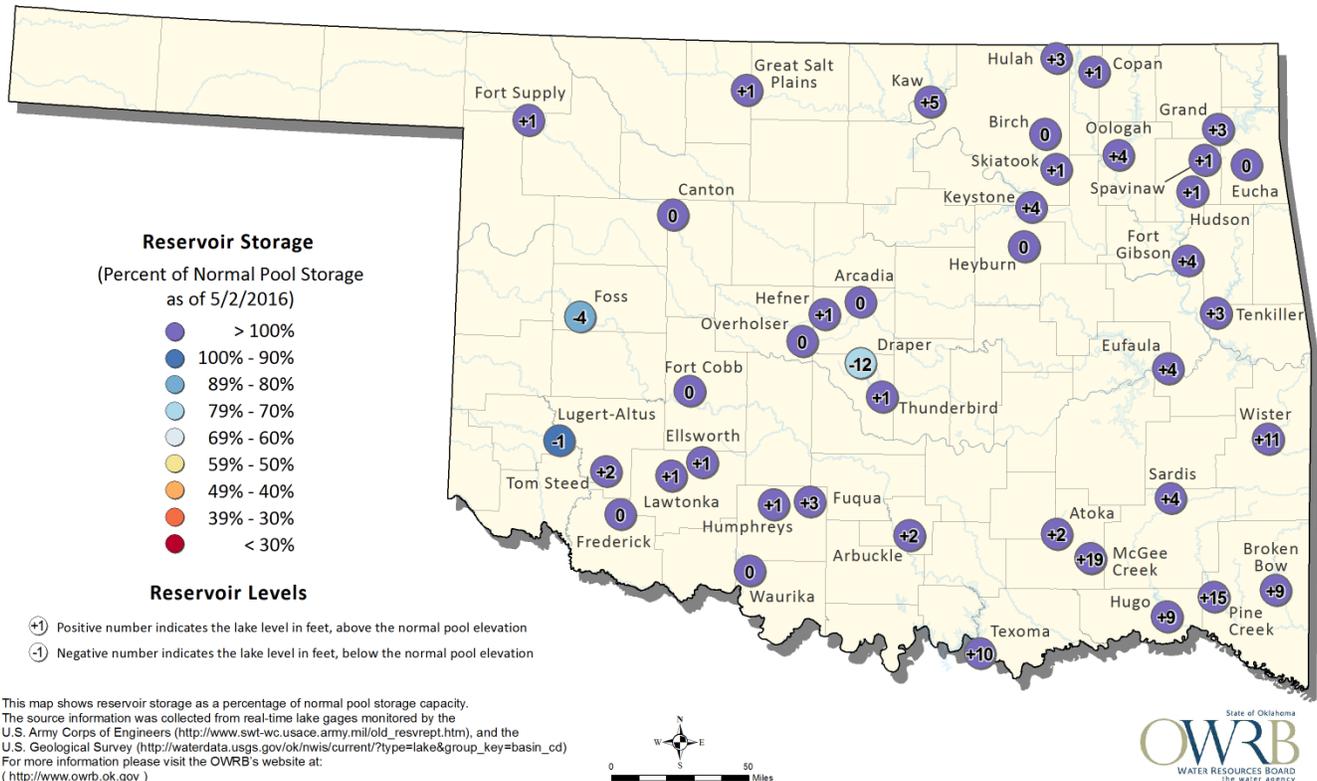
<http://droughtmonitor.unl.edu/>

Fig. 4. Drought Monitor for Arkansas

Reservoirs

According to the USACE, all of the major reservoirs in the HSA, except Beaver Lake which was at 99% of its conservation pool, were operating within their flood control pools as of 05/02/2016. Reservoirs operating above 5% of the top of their conservation level include: Sardis Lake 145%, Wister Lake 131%, Eufaula Lake 126%, Hugo Lake 119%, Grand Lake/Pensacola 119%, Oologah Lake 112%, Ft. Gibson Lake 109%, Kaw Lake 109%, Tenkiller Lake 107%, and Keystone Lake 106%.

Oklahoma Surface Water Resources Reservoir Levels and Storage as of 5/2/2016



Outlooks

The [Climate Prediction Center](#) (CPC) outlook for May 2016 (issued April 30, 2016) indicates an enhanced chance of above median precipitation across all of eastern OK and northwest AR. This outlook also calls for equal chances for above, near, and below normal temperatures across eastern OK and northwest AR. This outlook is based on both short- and extended-range weather forecasts, which show an enhanced chance for below normal temperatures for the first half of the month and above normal temperatures for the second half, resulting in an equal chance for above, near, and below normal temperatures. Considerations are also taken into account from the weakening El Niño and recent soil moisture conditions.

For the 3-month period May-June-July 2016, CPC is forecasting an equal chance for above, near, and below normal temperatures and a slightly enhanced chance for above median precipitation across all of eastern OK and northwest AR (outlook issued April 21, 2016). According to CPC, El Niño conditions continue to weaken, with the weekly analysis showing moderate strength currently, and is still expected to transition to neutral conditions during the late spring or early summer 2016. Therefore, this outlook is based primarily on both statistical and dynamical forecast tools, soil moisture conditions, and residual impacts from El Niño. The chance of developing La Nina conditions exceeds 50% by late Summer 2016.

Summary of Precipitation Events Daily quality controlled rainfall maps can be found at: http://water.weather.gov/precip/index.php?location_type=wfo&location_name=tsa

April 1-15

Showers developed and moved across northeast OK and far northwest AR, generally north of Hwy 412, during the morning of the 6th within a strong low-level jet axis and near a cold front. Rainfall totals ranged from a few hundredths to 0.10" for most of the affected area, with 0.10"-0.25" over Ottawa Co.

A few rounds of scattered showers affected eastern OK and northwest AR on the 9th. The most widespread activity occurred over southeast OK and west central AR during the evening hours and late night hours. Most of the rain had exited the region by 2am CDT. Rainfall totals remained light, with totals less than 0.25".

Thunderstorms erupted over northeast OK on the evening of the 10th from Pawnee Co. into northern Washington Co. (OK). These storms were severe, producing hail to 1.75", and the OK Mesonet measured a wind gust of 62 mph in Foraker. These storms were in advance of a cold front that was located over northwest OK into southeast KS. Additional showers and thunderstorms developed along the front as it moved southeastward across the northern portion of the HSA through the overnight hours. A squall line developed over southwest OK during the evening in the vicinity of a dry line. This complex of storms also tracked east during the late evening and overnight hours, merging with the northern cold front storms, and affected the southern half of the area. All of eastern OK and northwest AR received rainfall, ranging from around 0.10" to near 3" (Fig. 5). The highest totals of 2"-3" occurred from southeast Osage, across northern Tulsa, and through most of Rogers Counties.

Some of the highest 24-hr rainfall totals ending at 7am CDT April 11, 2016 include:

Skiatook 4W, OK (DCP)	2.65	Skiatook 6WSW, OK (coco)	2.59	Collinsville 3NE, OK (DCP)	2.28
Big Cabin 5NE, OK (DCP)	2.20	Talala 0.5W, OK (coco)	2.06	Vinita 8.6ESE, OK (coco)	2.01

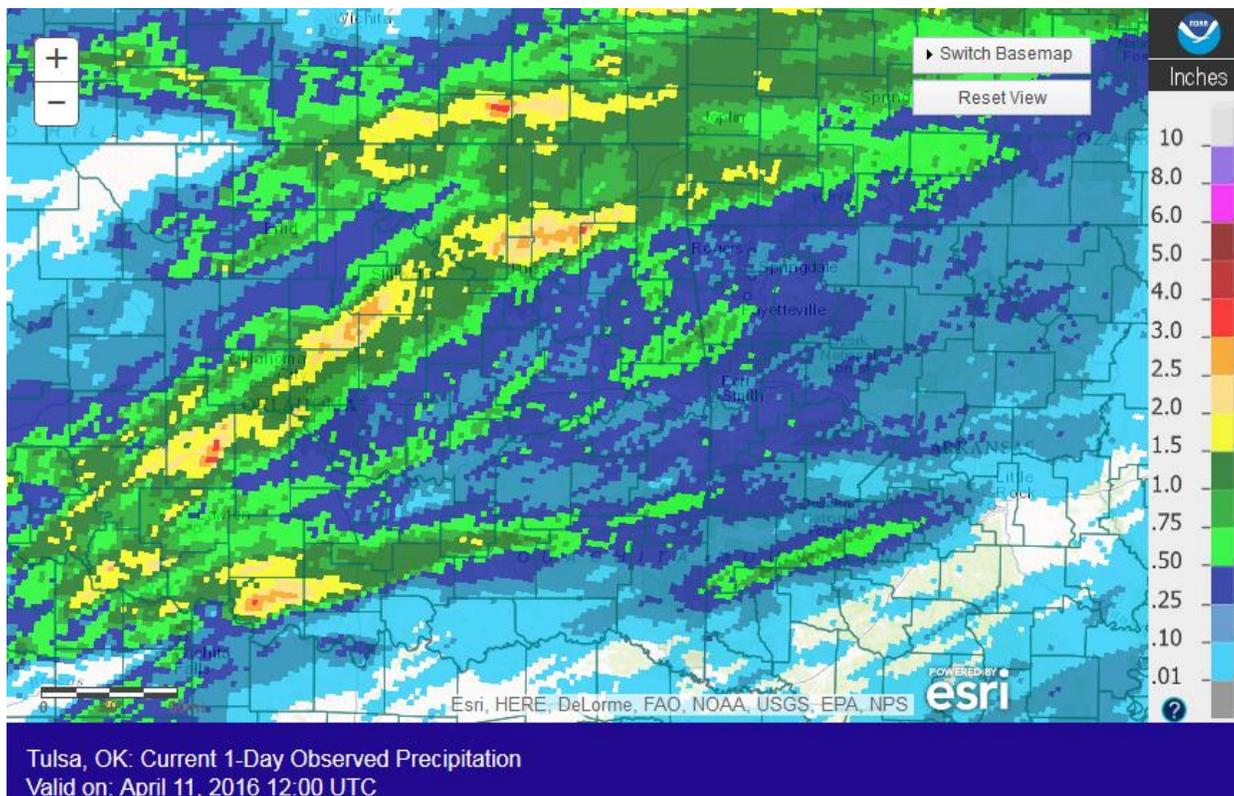


Fig. 5. 24-hour Estimated Observed Rainfall ending at 7am CDT 4/11/2016.

Around sunrise on the 11th, showers and thunderstorms moved east out of south central OK, south of the cold front into southeast OK and quickly exited east of the area by noon. Another round of thunderstorms redeveloped around noon over south central OK right along the cold front. These storms tracked east along

the boundary into southeast OK during the afternoon hours. Scattered post-frontal showers moved across southeast OK and northwest AR through the overnight hours, ending by sunrise. 24-hr rainfall totals ending at 7am 4/12/16 ranged from around 0.10" to around 2" south of I-40 (Fig. 6).

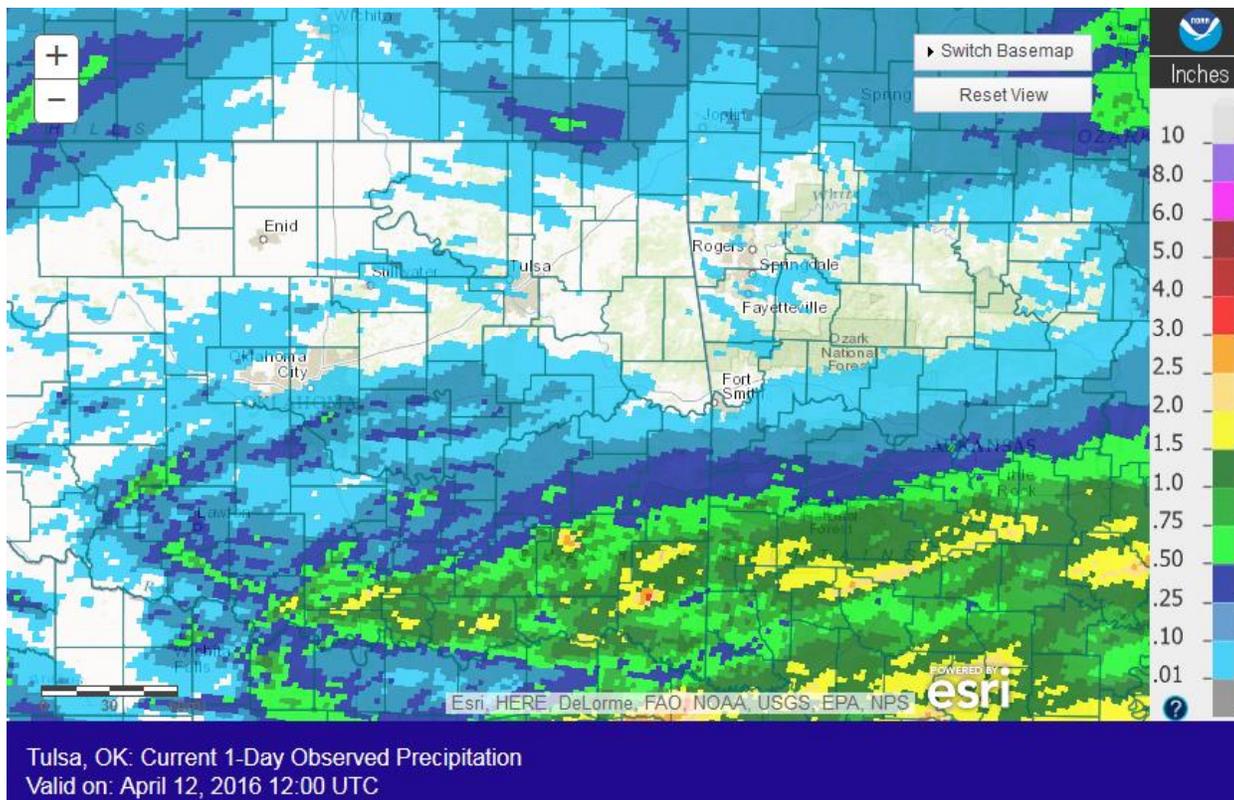


Fig. 6. 24-hour Estimated Observed Rainfall ending at 7am CDT 4/12/2016.

An upper-level low moved from northwest TX and over the HSA on the 13th. Scattered showers developed over southern OK in the early morning hours and spread north. Additional shower activity occurred through the day as the low moved over the area. Rain lingered over far southeast OK and in west central AR until sunrise on the 14th. Rainfall totals were less than 0.50", with most of the area receiving less than 0.10" of rain.

April 16-30

A widespread rainfall event affected all of Oklahoma and northwest Arkansas mid-month. Early on the 17th, a closed upper-level low was located near the Four Corners region, with an associated cold front over western KS. As the low rotated over the Four Corners, the cold front moved into western OK. The widespread showers and isolated thunderstorms over western and central OK then slowly spread east to near Hwy 75 in eastern OK by the late-morning hours. By mid-evening, the rain shield was near the OK/AR state line and then quickly weakened. The next round of rain developed over south central OK and northeast TX during the evening of the 17th, moving north northeast into eastern OK during the overnight hours. Most of the rain came to an end around sunrise, though patches of light rain and drizzle remained through the morning of the 18th. 24-hour rainfall totals by 7am CDT on the 18th ranged from around 3" in portions of Okfuskee, Okmulgee, McIntosh, Creek, and Le Flore Counties, to around 0.10" or less in Madison and Carroll Counties (Fig. 7). This led to minor flooding along Polecat Creek near Sapulpa. While significant rainfall and flooding occurred across portions of western and central OK (Figs. 8, 9), on the 16th-17th, no downstream flooding occurred in the NWS Tulsa HSA.

Some of the highest 24-hr rainfall totals ending at 7am CDT April 18, 2016 include:

Drumright 7ENE, OK (meso)	3.14	Drumright 0.6SW, OK (coco)	3.11	Big Cedar 2E, OK (DCP)	3.05
Tertlon 3.7ESE, OK (coco)	3.05	Beggs 5S, OK (DCP)	2.71	Okmulgee 5SE, OK (meso)	2.63

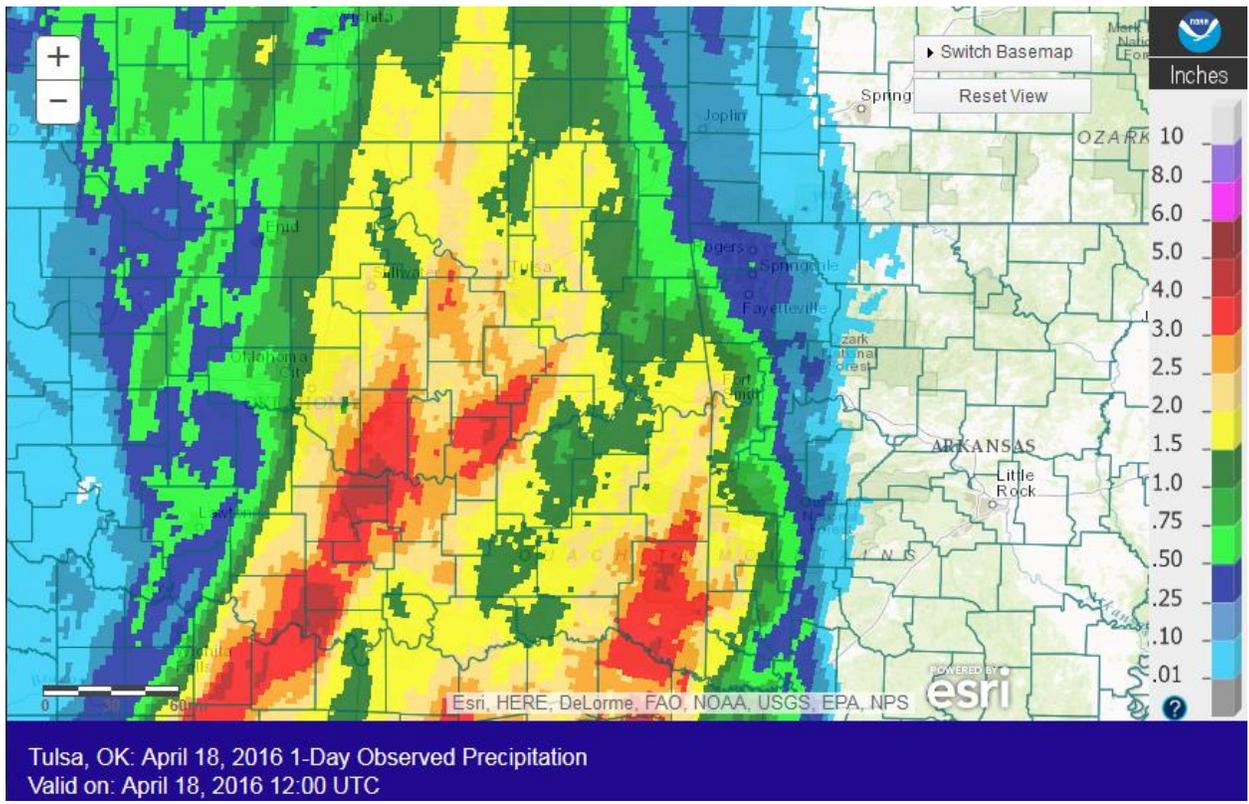


Fig. 7. 24-hour Estimated Observed Rainfall ending at 7am CDT 4/18/2016.

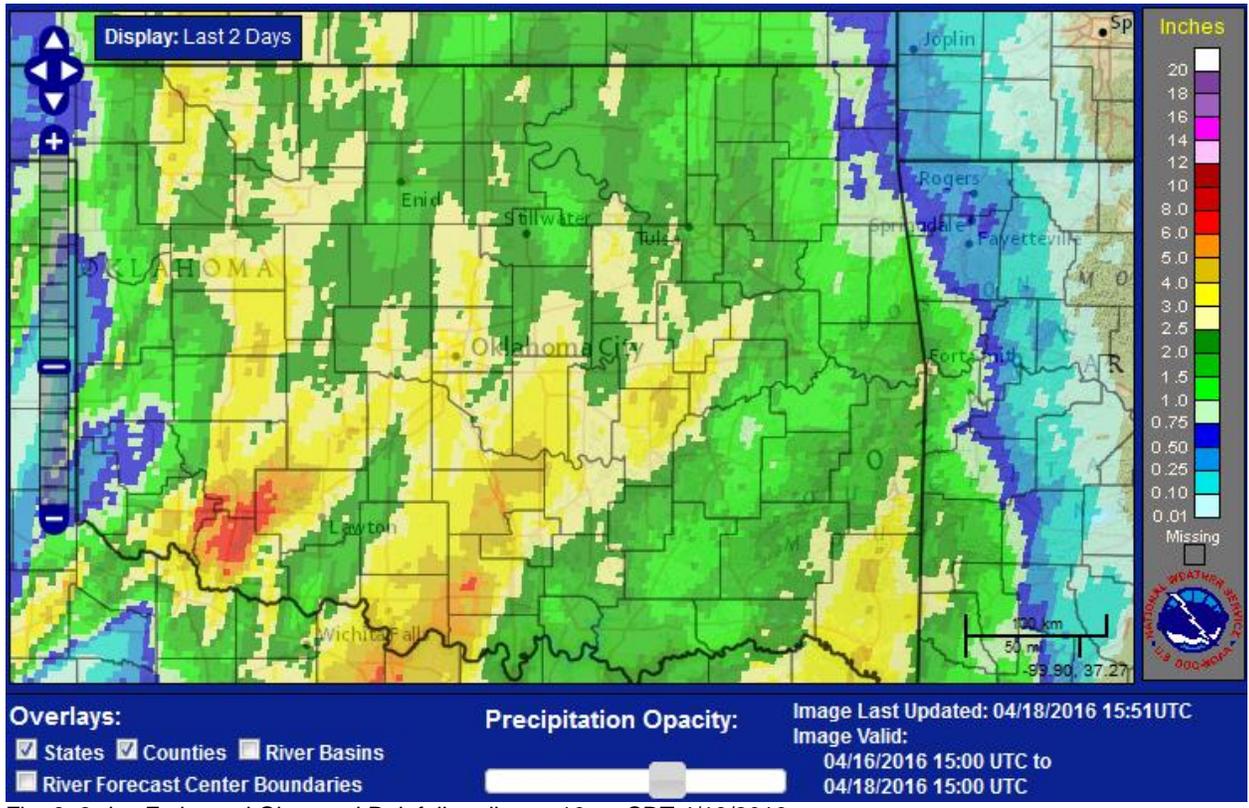


Fig. 8. 2-day Estimated Observed Rainfall ending at 10am CDT 4/18/2016.

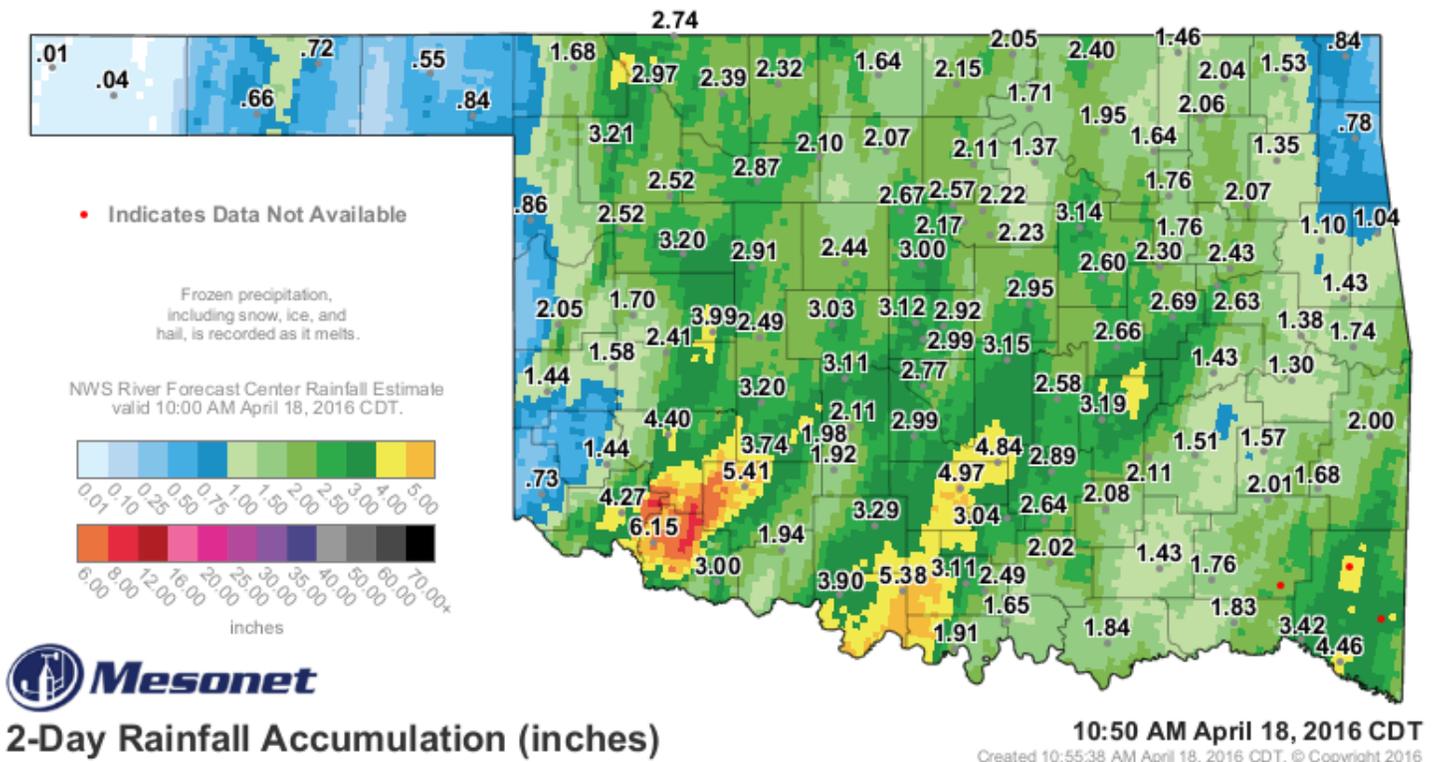


Fig. 9. 2-day Estimated Observed Rainfall (image) and OK Mesonet measurements ending at 10:50am CDT 04/18/2016.

After a lull in the rain, a band of showers developed from western Pittsburg Co. north-northeast to the OK/MO state line during the evening of the 18th, bringing another 0.25" to around 1" of rain (Fig. 10). By sunrise on the 19th, the cold front stretched from west central OK into southeast KS. Rain continued near and east of the boundary on the 19th, spreading northeast out of central OK into northeast OK and far northwest AR as the extremely slow moving upper-level low continued to influence the region. The scattered showers affected locations primarily north of an Okemah, OK to Rogers, AR line. A line of thunderstorms developed over western OK during the evening hours and marched eastward into the HSA by 9pm. The storms weakened quickly after crossing Hwy 75, and dissipated by the time they reached the OK/AR state line around 2am on the 20th. However, storms lingered over far southeast OK until just after sunrise. Rainfall totals from both rounds of rain on ranged from around 0.50" to around 1.5" (Fig. 11). The widespread convection shifted east by the 20th, though shortly after midnight on the 21st, weakening showers brought less than 0.10" of rain to eastern Kay, Osage, Pawnee, and northern Creek Counties as the main trough axis passed through the region. This activity completely dissipated just a couple hours later, marking an end to the extended wet period. All of the rainfall within the Deep Fork basin eventually led to minor flooding near Beggs several days later (see preliminary hydrograph at the end of this report).

At mid-morning on the 26th, a few thunderstorms developed just northeast of Oklahoma City and moved northeast into northeast OK around noon. This activity, which produced hail up to 1", continued moving northeast generally near the I-44 corridor before dissipating north of the state line at mid-afternoon. Meanwhile, a line of thunderstorms developed along and ahead of a dry line from northwest TX to southwest through north central Oklahoma and up to northeast KS. These storms moved east across eastern Oklahoma and western Arkansas from the late evening hours of April 26th through the early morning hours of April 27th. This line of thunderstorms, called a Quasi-Linear Convective System (QLCS), produced wind gusts of 60 to near 90 mph due to the ample instability and deep layer shear in place across the region and an upper-level low approaching the area. 22 EF-0 to EF1 tornadoes along the leading edge of the QLCS caused damage throughout eastern Oklahoma and northwest Arkansas (more information at <http://arcg.is/1RNkyDs>). The Oklahoma Mesonet site in Copan measured a wind gust of 87 mph and the Hugo site measured 65 mph. The squall line/QLCS moved east of the HSA by 2:30 am CDT 4/27/2016, and the rain moved out by sunrise. Rainfall totals were 0.50" to around 1.5" across all of eastern OK and northwest AR (Fig. 12). This rain, combined with the 2.5"-4.5" of rain in eastern KS, resulted in minor flooding along the Neosho River near Commerce (see preliminary hydrograph at the end of this report).

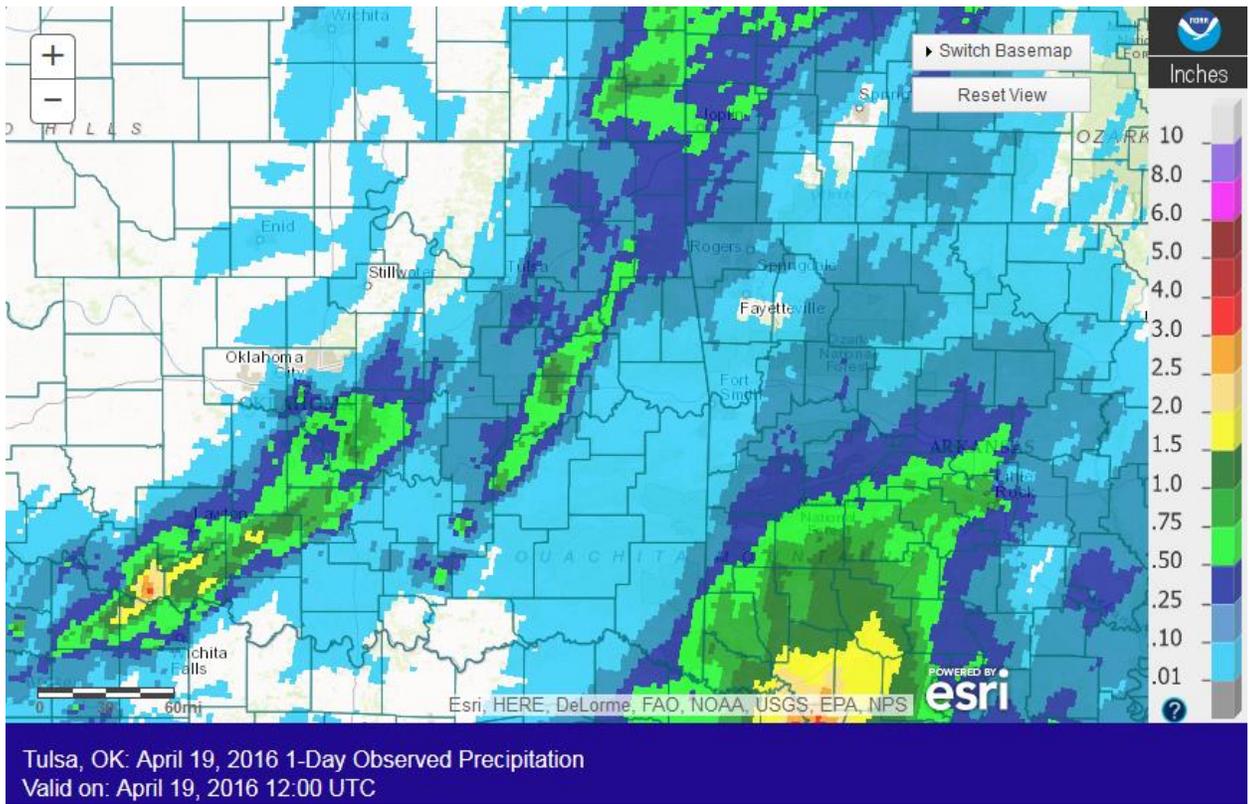


Fig. 10. 24-hour Estimated Observed Rainfall ending at 7am CDT 4/19/2016.

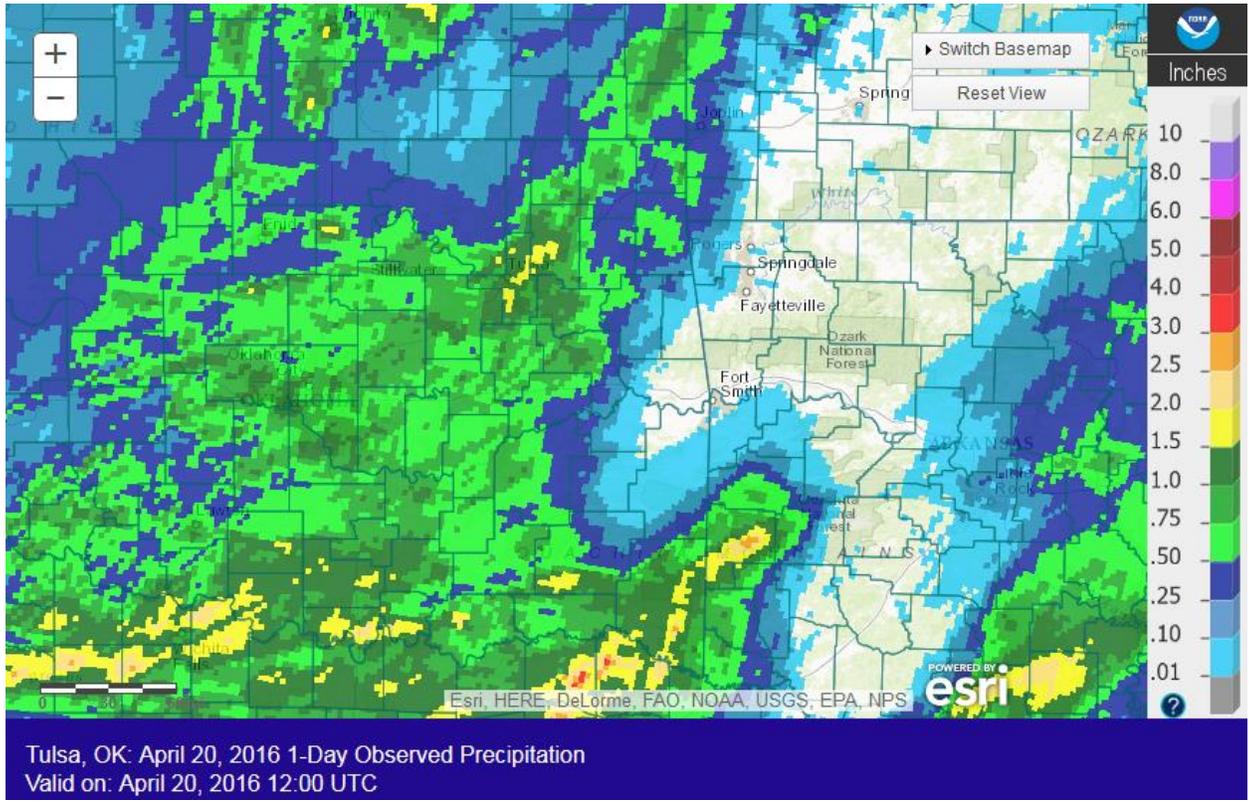


Fig. 11. 24-hour Estimated Observed Rainfall ending at 7am CDT 4/20/2016.

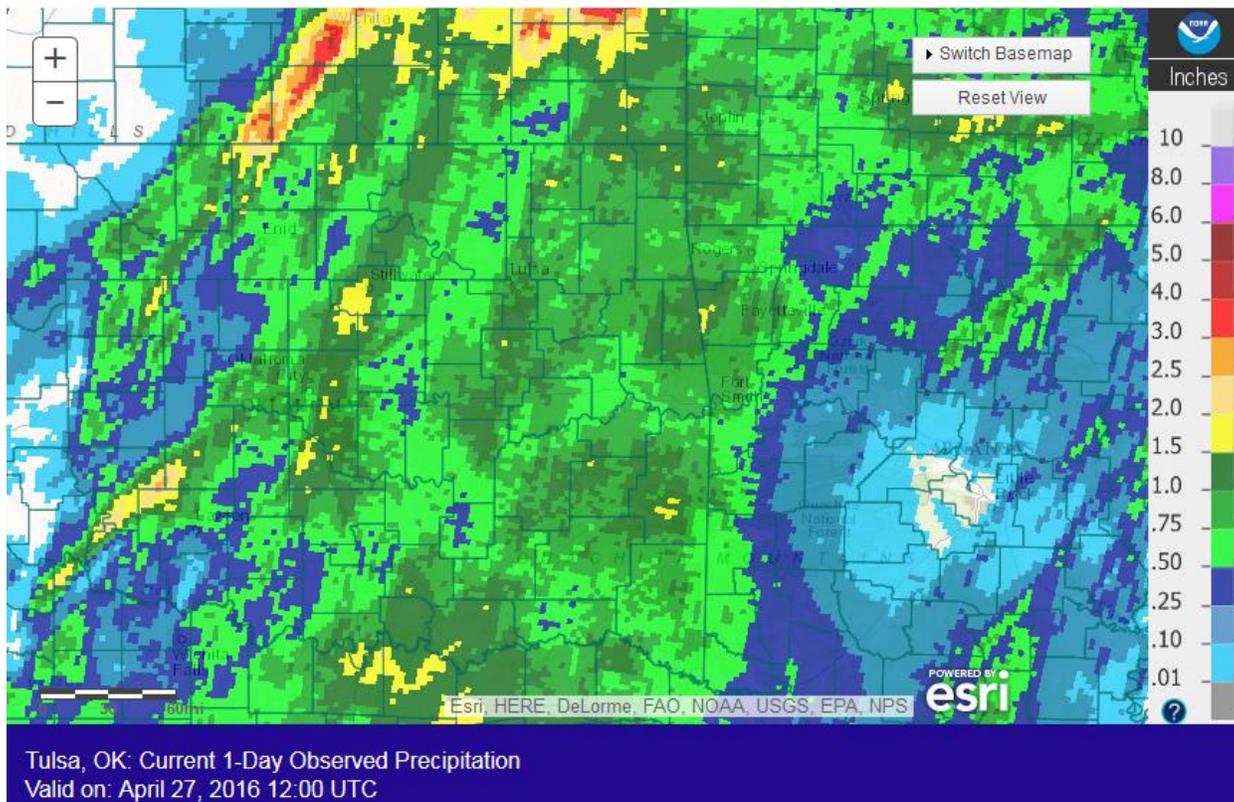


Fig. 12. 24-hour Estimated Observed Rainfall ending at 7am CDT 4/27/2016.

Around midnight on the 29th, elevated thunderstorms developed over northern TX and south central OK, north of a warm front, and moved northeast during the early morning hours. The showers and thunderstorms continued through the late morning hours across eastern OK and northwest AR, primarily south of I-44. Rainfall totals ranged from 0.10" to around 3", with the highest totals of 1"-3" primarily along and south of I-40 (Figs. 13, 14). By 7am CDT on the 29th, the highest rainfall measurements included Clayton 4NNE, OK 2.67", Krebs 0.3WNW, OK 2.53", McAlester 4S, OK 2.40", and Vian 5.3 ENE, OK 2.12". Widely scattered thunderstorms continued over far southeast OK through the early afternoon while more thunderstorms developed over northwest OK as an upper-level low approached the region. During the afternoon, a surface low developed over northwest TX/southwest OK, with a nearly stationary warm front extending eastward along the vicinity of the Red River. As both the upper-level and surface lows moved eastward, there was another uptick in shower and thunderstorm activity through the afternoon and evening hours. Several storms were severe, producing large hail to 1.75"-2.5" in diameter. Storms coming east out of central OK eventually developed into a line of thunderstorms during the late evening hours. These storms continued to move east while weakening, and finally exited the HSA around 3am on the 30th. A cold front finally pushed through the region on the 30th. Rainfall totals ranged from around 0.50" or less north of I-44 to 0.75" to near 6" south of I-44 (Fig. 15). A large portion of southeast OK and west central AR along and south of I-40 received 2.5"-4" of rain. This additional rainfall caused the Neosho River near Commerce to rise again, cresting just above the Moderate flood level. Flooding also occurred along the Poteau River, with minor flooding near Poteau and just below moderate flooding near Panama. The Arkansas River near Van Buren remained just below flood stage, while the Kiamichi River near Antlers stayed just below action stage. Preliminary hydrographs are available at the end of this report.

For the 7-day period from April 25-May 1, 2"-8" of rain fell south of I-44 (Fig. 16), with 0.50"-2" north of I-44.

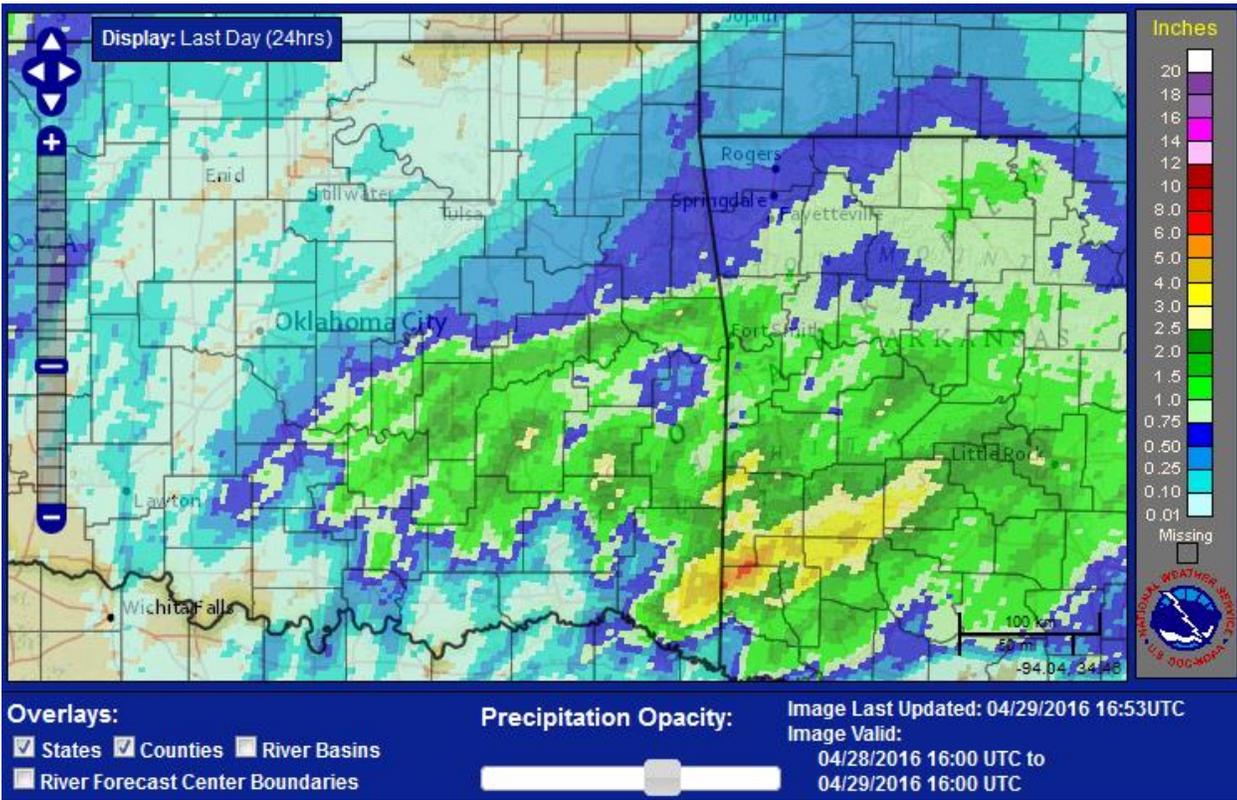


Fig. 13. 24-hour Estimated Observed Rainfall ending at 11am CDT 4/29/2016.

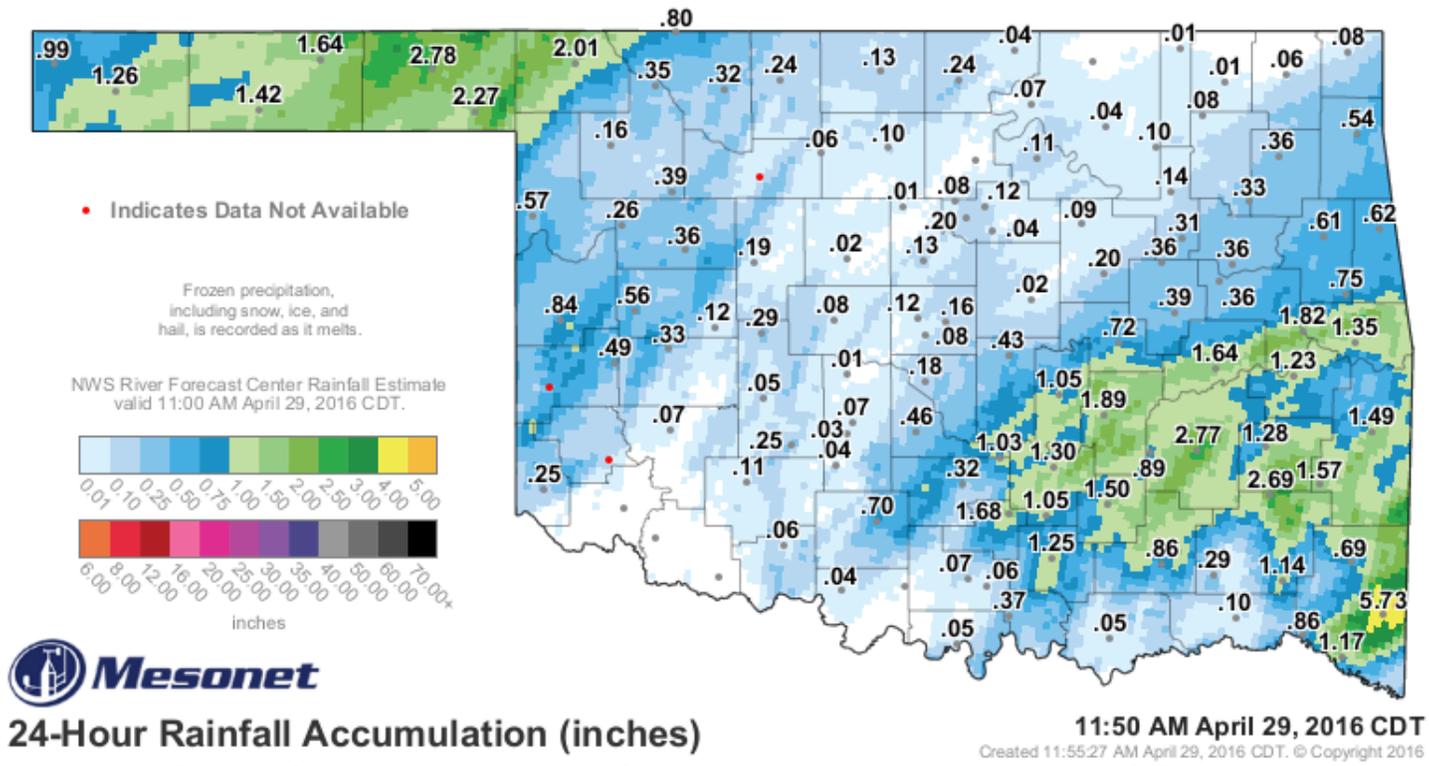


Fig. 14. 24-hour Estimated Observed Rainfall (image) and OK Mesonet measurements ending at 11:50am CDT 04/29/2016.

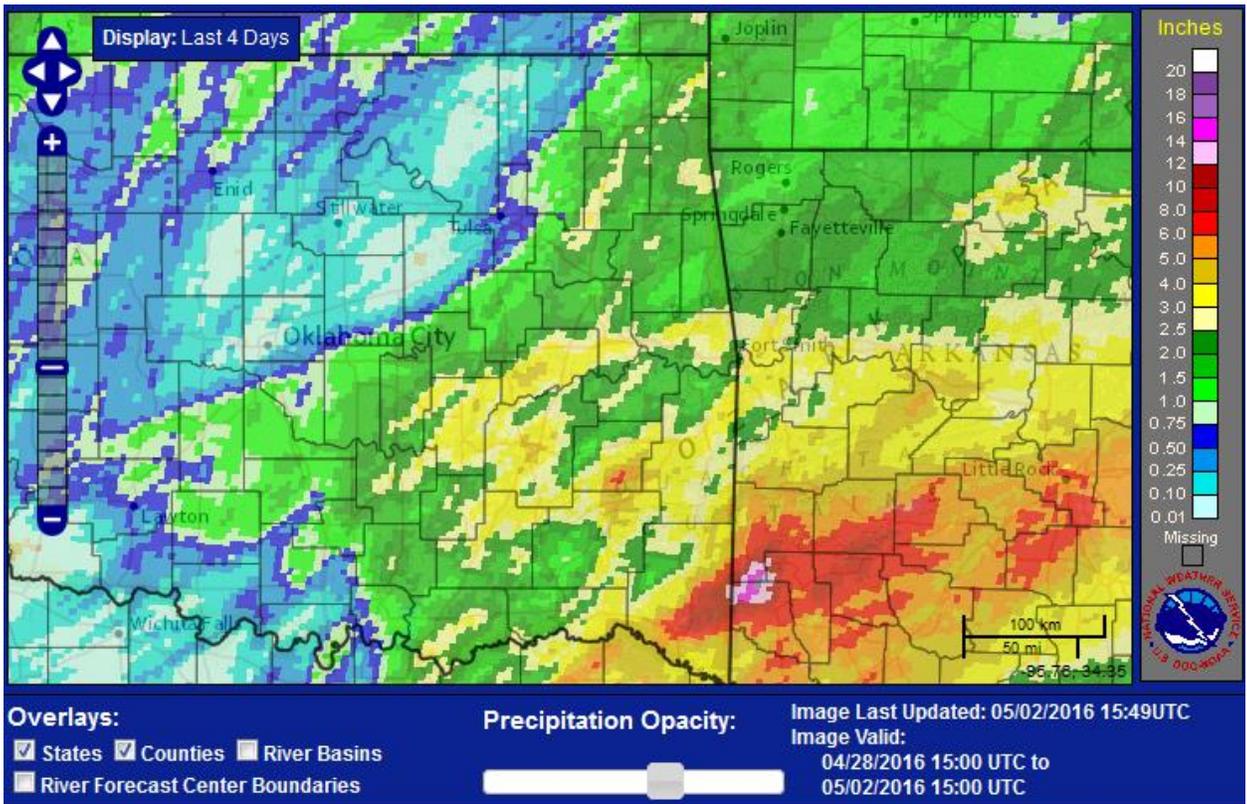


Fig. 15. 4-Day Estimated Observed Rainfall ending at 10am CDT 5/02/2016.

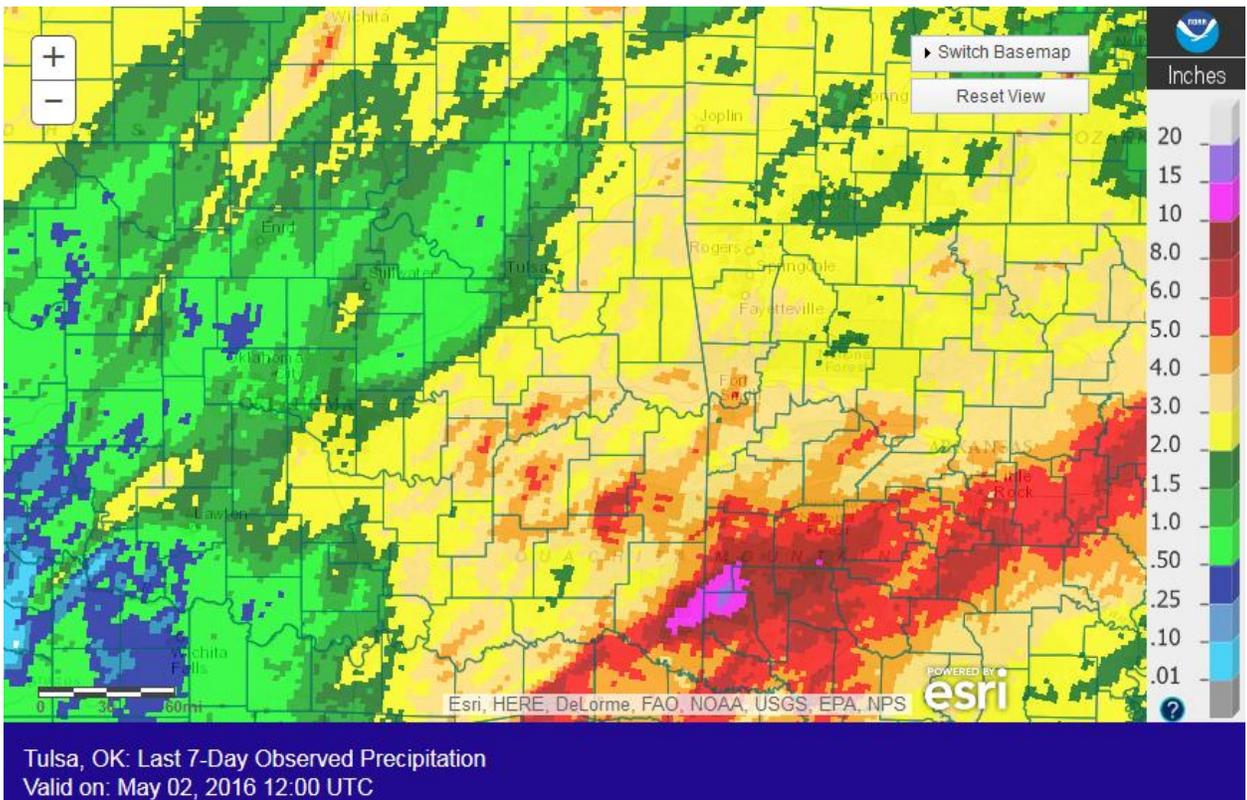


Fig. 16. 7-Day (April 25-May 1) Estimated Observed Rainfall ending at 11am CDT 5/02/2016.

Written by:
 Nicole McGavock
 Service Hydrologist
 WFO Tulsa

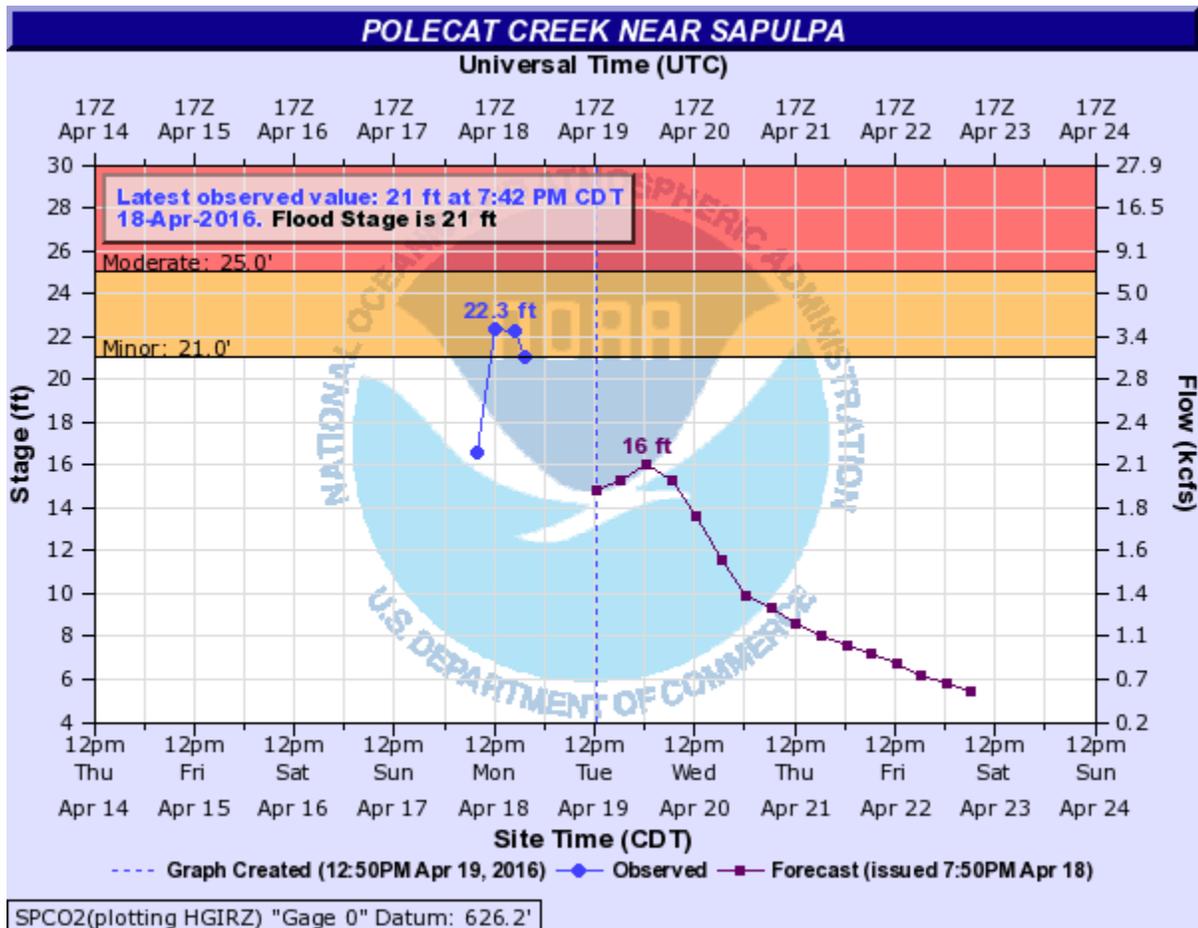
Products issued in April 2016:

*MLBA4 and OZGA4 transferred to NWS Tulsa HSA February 5, 2014

*Mixed case River Flood products began July 31, 2013

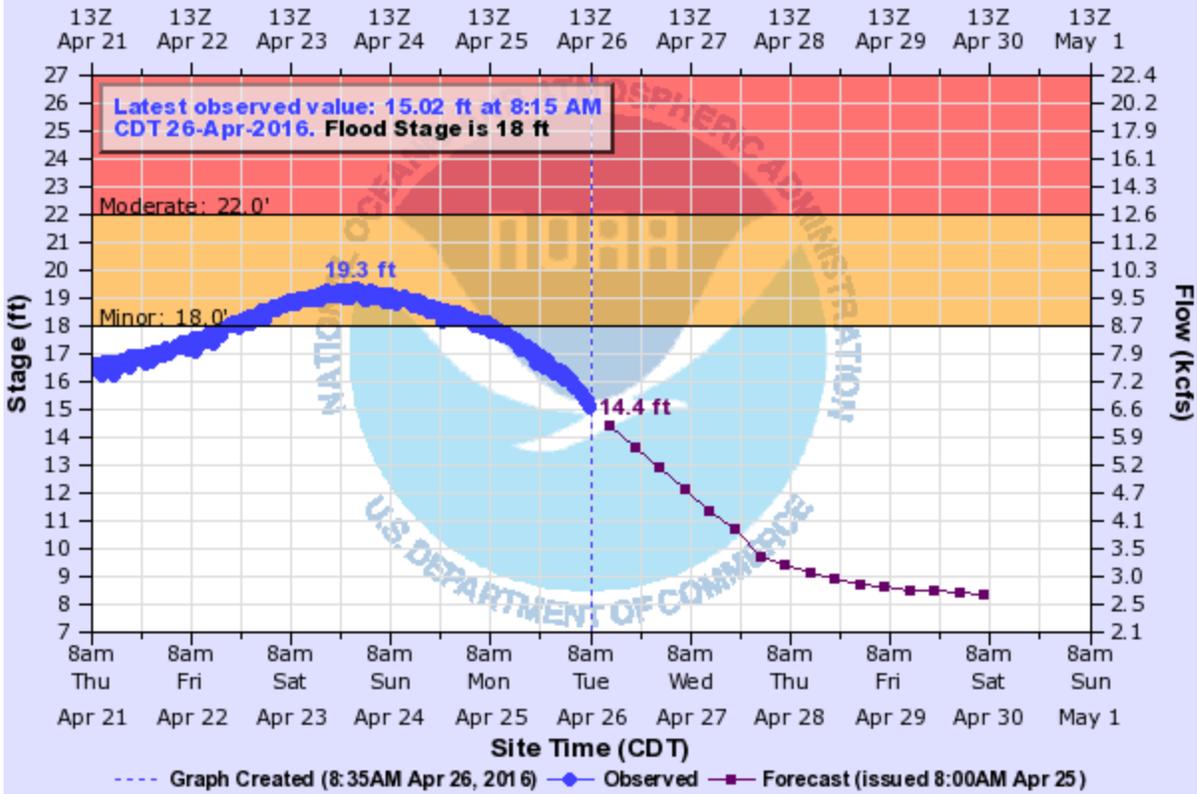
- 0 Flash Flood Warnings (FFW)
- 0 Flash Flood Statements (FFS)
- 2 Flash/Areal Flood Watches (FFA) (6 Watch FFA CON/EXT/EXA/EXB/CAN)
- 2 Urban and Small Stream Advisories (FLS)
- 0 Areal Flood Warnings (FLW)
- 0 Areal Flood Statements (FLS)
- 7 River Flood Warnings (FLW)
- 27 River Flood Statements (FLS)
- 2 River Flood Advisories (FLS) (5 Advisory FLS CON/EXT/CAN)
- 4 River Flood Watches (FFA) (9 Watch FFA CON/EXT/CAN)
- 0 River Statements (RVS)
- 0 Hydrologic Outlooks (ESF)
- 0 Drought Information Statements (DGT)

Preliminary Hydrographs:



DEEP FORK RIVER NEAR BEGGS

Universal Time (UTC)

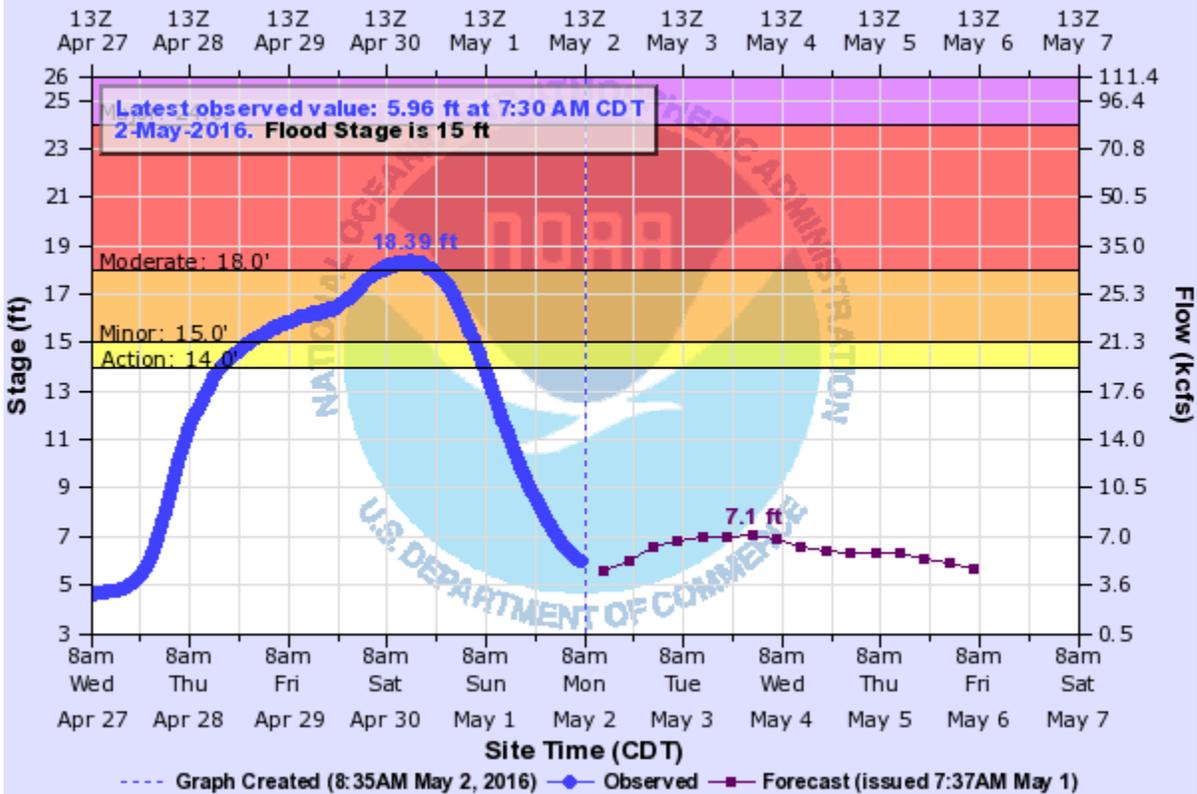


BGSO2(plotting HGIRG) "Gage 0" Datum: 632.55'

Observations courtesy of US Geological Survey

NEOSHO RIVER NEAR COMMERCE

Universal Time (UTC)

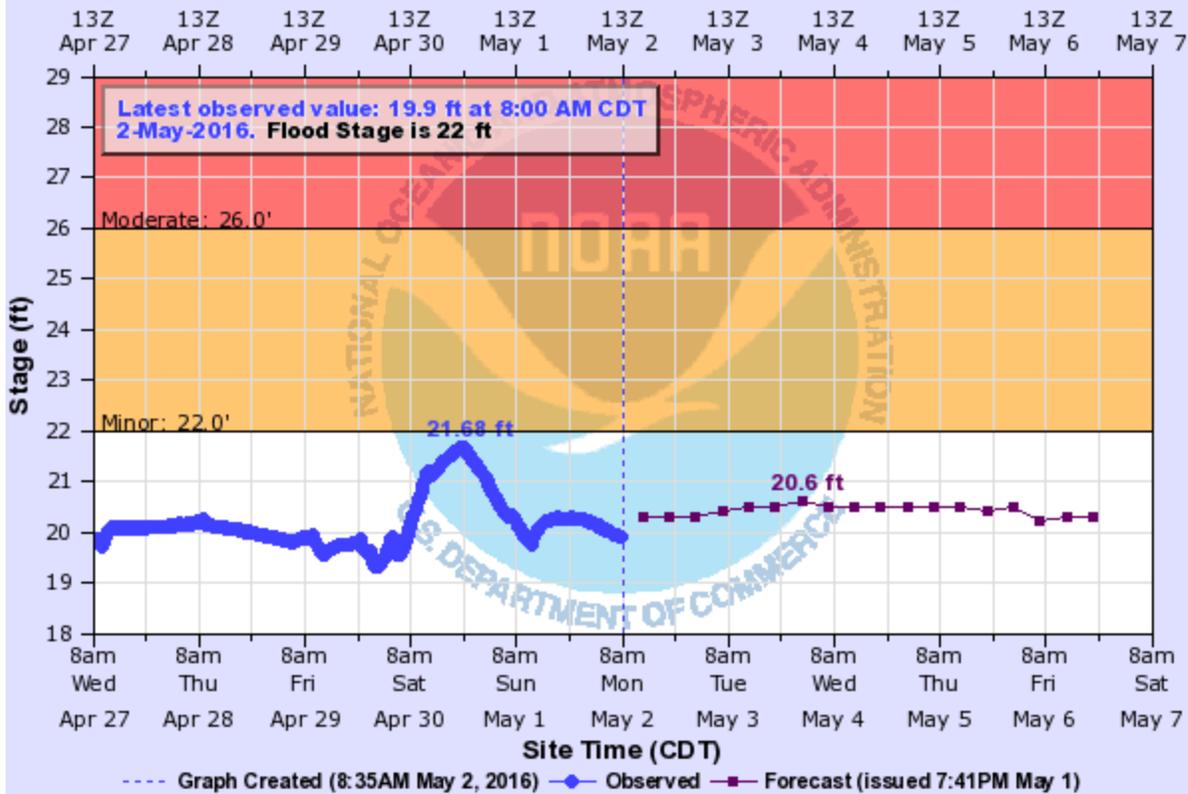


COMO2(plotting HGIRG) "Gage 0" Datum: 748.97'

Observations courtesy of US Geological Survey

ARKANSAS RIVER AT VAN BUREN

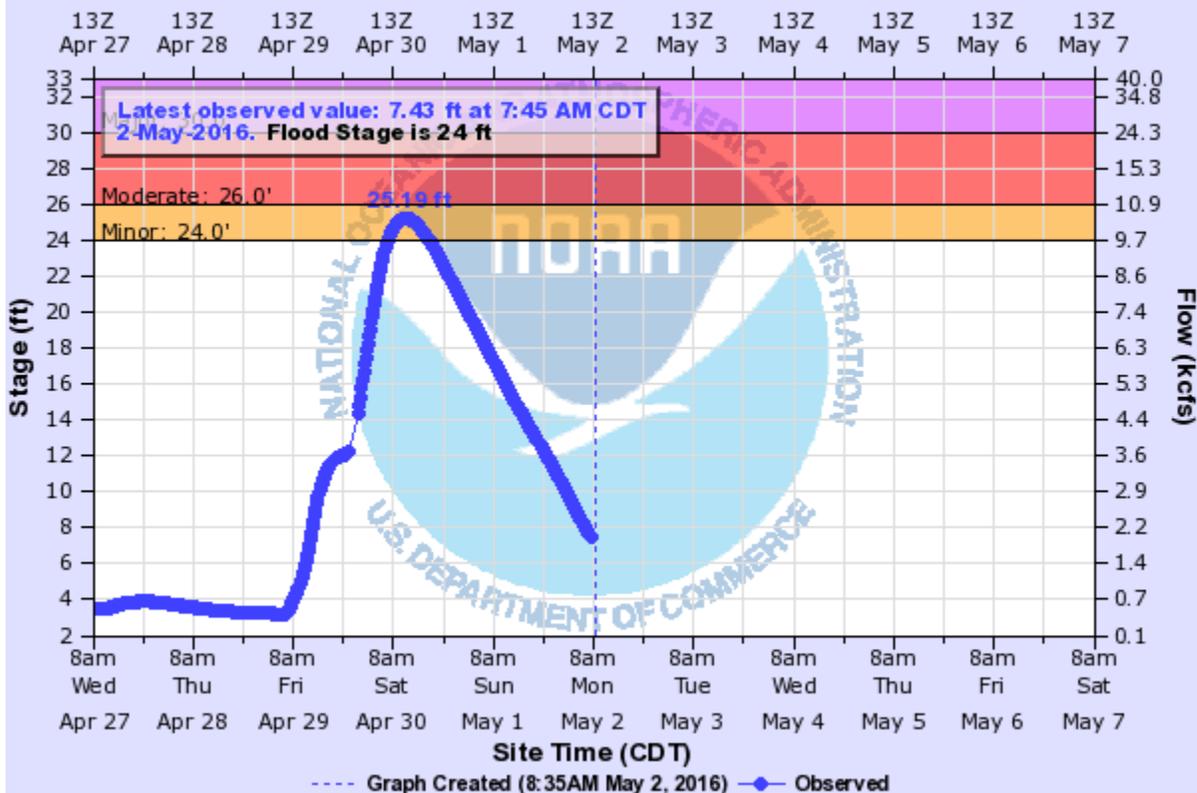
Universal Time (UTC)



VBUA4(plotting HGIRG) "Gage 0" Datum: 372.36'

POTEAU RIVER NEAR POTEAU

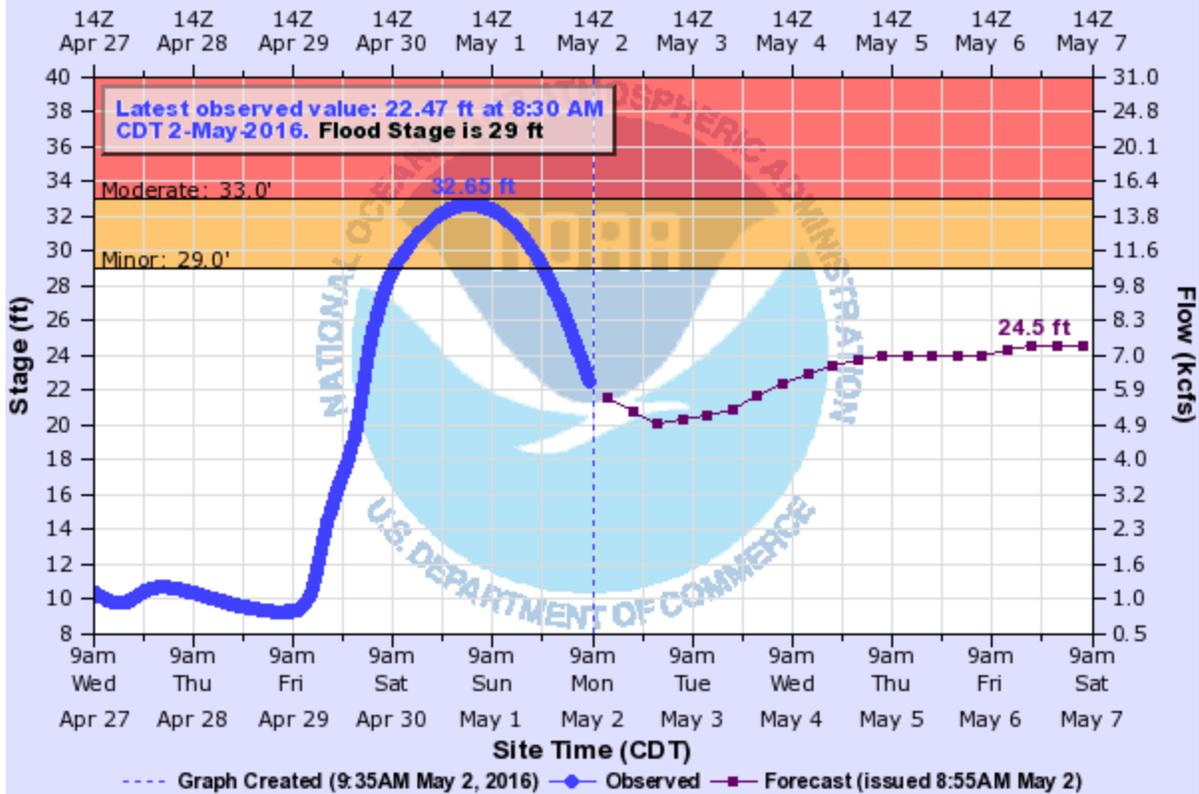
Universal Time (UTC)



PTAO2(plotting HGIRG) "Gage 0" Datum: 409.4'

POTEAU RIVER NEAR PANAMA

Universal Time (UTC)



KIAMICHI RIVER NEAR ANTLERS

Universal Time (UTC)

