

# **April 2025 Storm Event Update**

**City Council Study Session**

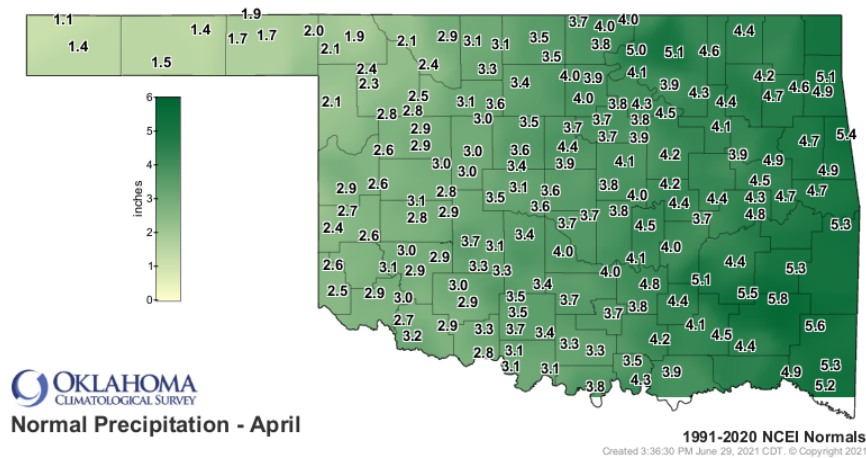
**June 3, 2025**



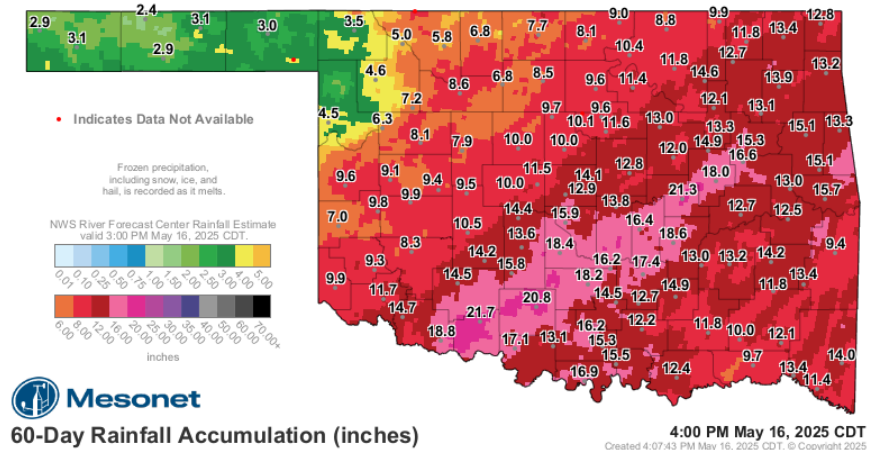
# Consequences of Driving around Road Closed Signs



# Historical Flooding



Norman 30 yr. Average April Rainfall:  
3.64 Inches

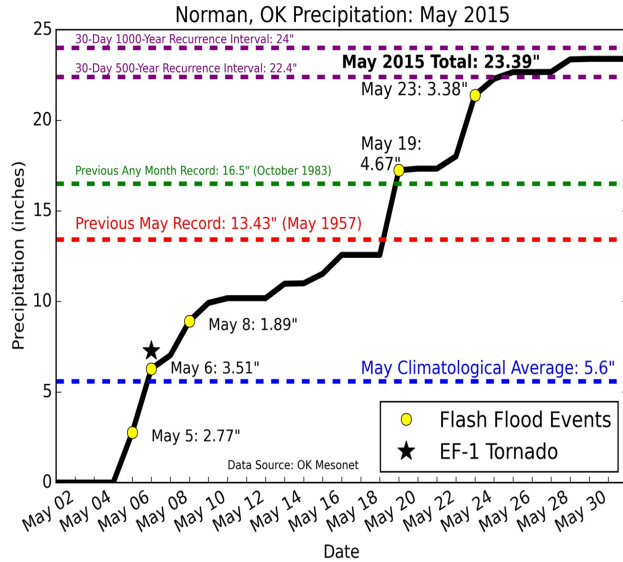


Norman Rainfall April 2025: 14.06 Inches

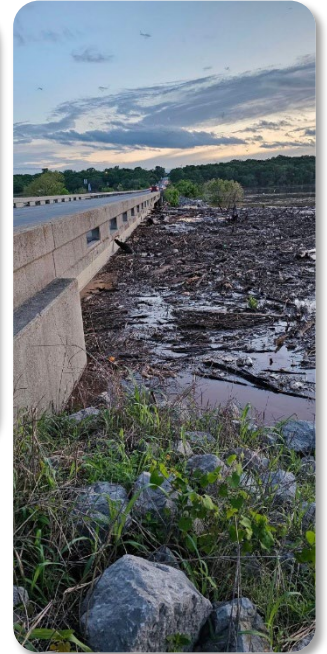
Main Storm Event Occurred April 19th to 30<sup>th</sup>

# Historical Comparison

## Twin Bridges



2015



2025

### Lake Thunderbird Peak Elevations

May 2015 – 1053.22'

April/May 2025- 1047.38'

\*Normal Pool – 1039'



# Historical Comparison



May 2015 – west of 72<sup>nd</sup> Ave NW  
on Rock Creek Road

May 2015 – Andrews Park Pavilion



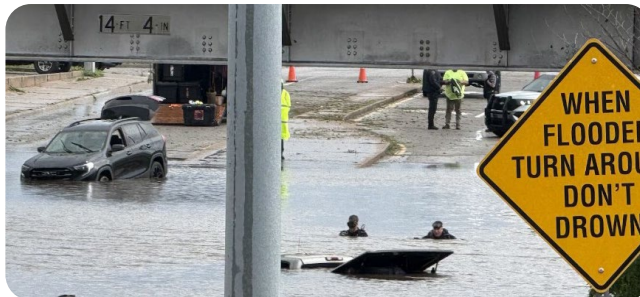
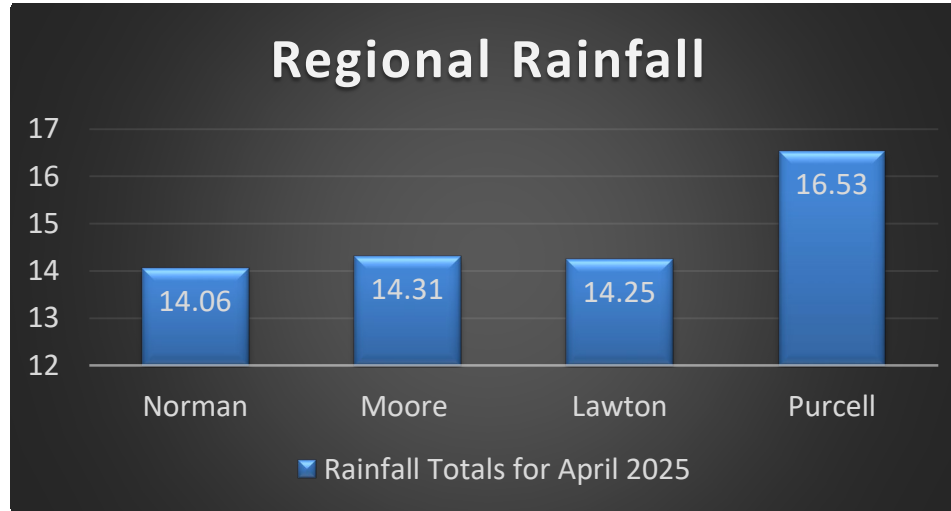
# Regional Impacts



Blanchard OK Road Washout



Lexington Fire Department Performing Flooding Rescue



Lawton OK Water Rescues

# City of Norman Response

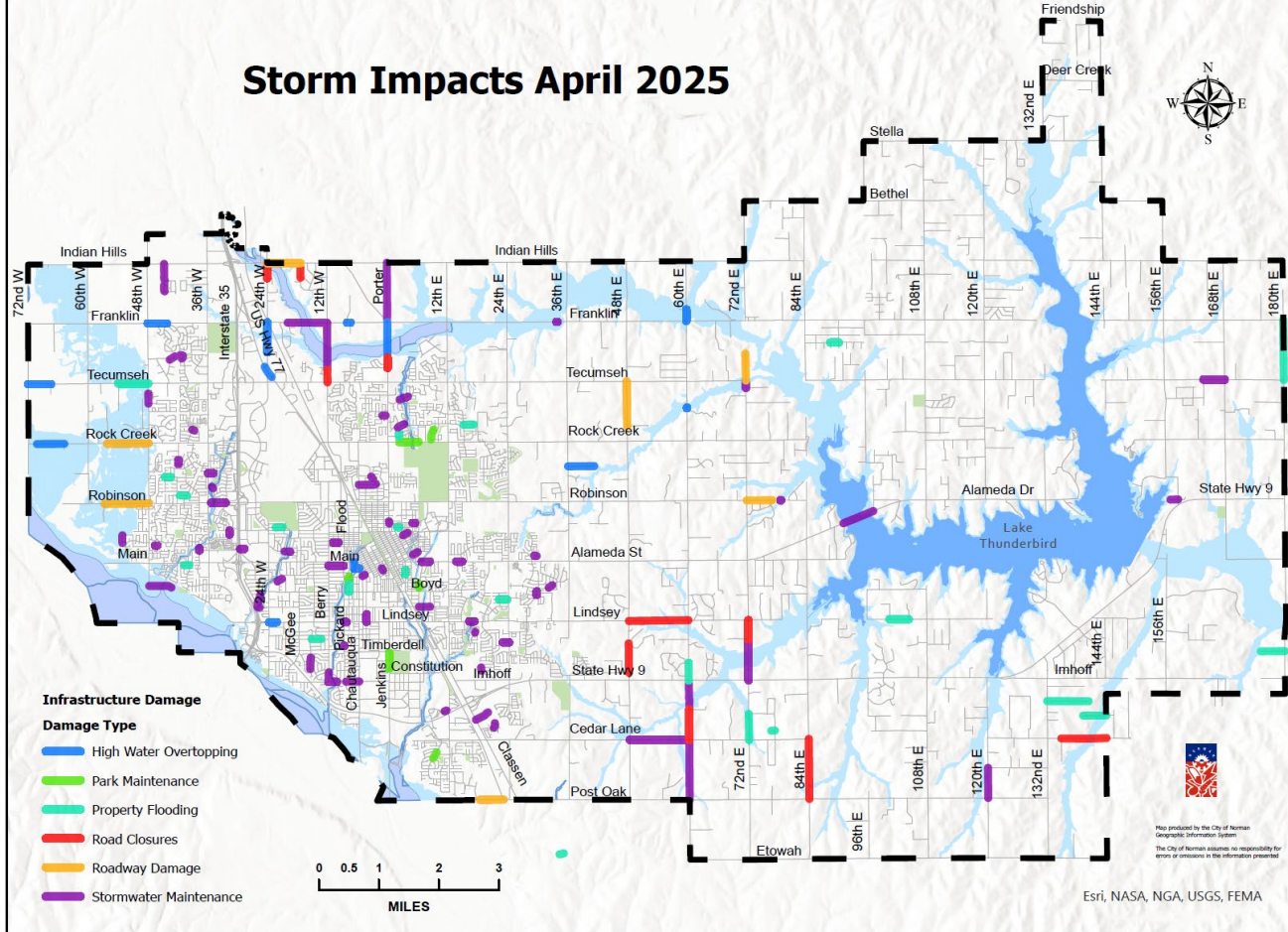


## City of Norman Flood Operations April 2025





# Storm Impacts April 2025



# Public Infrastructure Impacts



Imhoff Creek at Main Street



Rock Creek at 72<sup>nd</sup> Avenue NE near Tecumseh Avenue



# Private Property Impacts



Private driveway near 60<sup>th</sup> Avenue SE



Private Pedestrian Bridge



Private Detentions Overflowing

# Franklin Road and 24<sup>th</sup> Avenue NE



When crews arrived, water was up to windshield of car. Everyone was safe.



# Ten Mile Flats



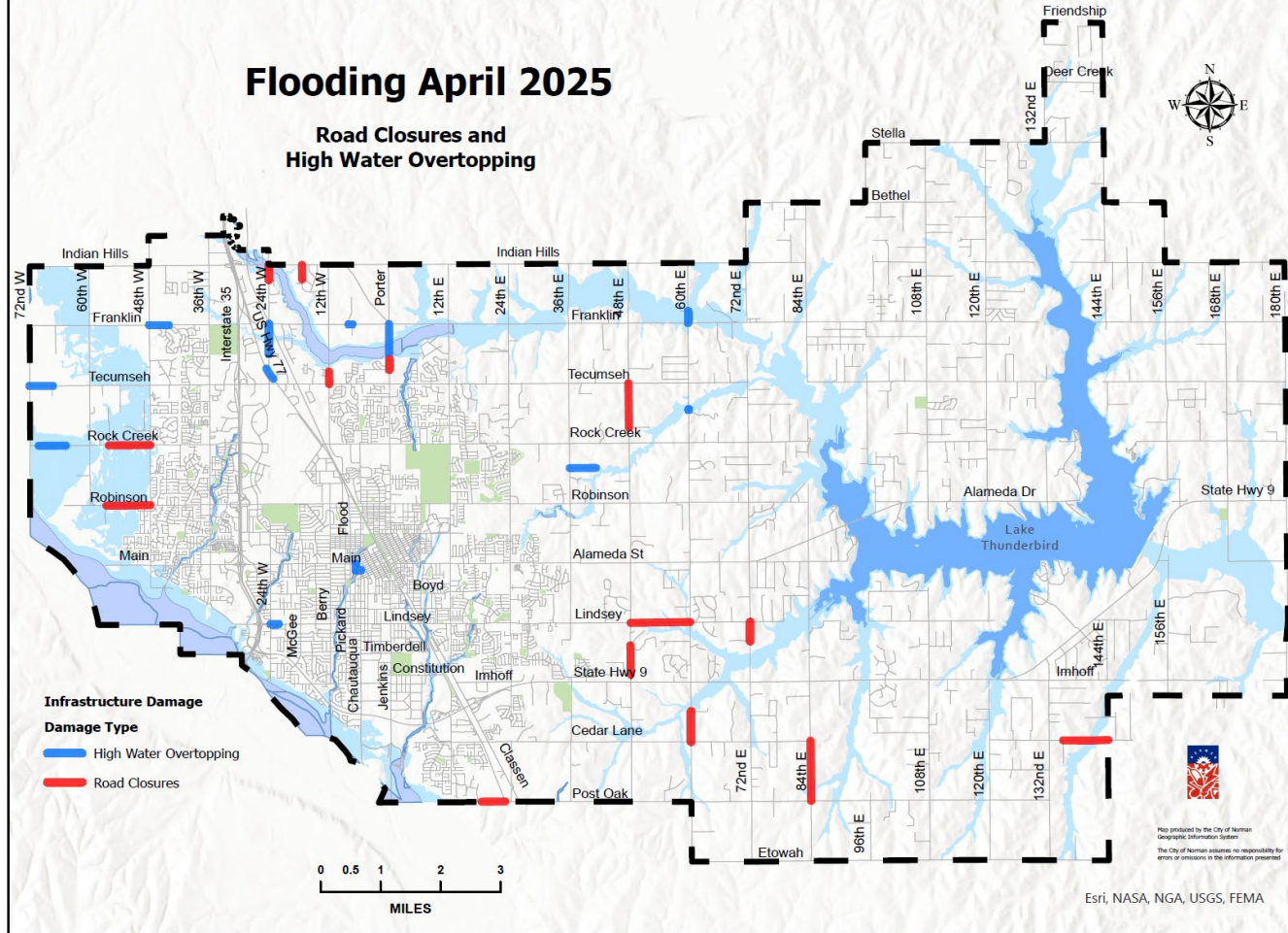
# Ten Mile Flats





# Flooding April 2025

## Road Closures and High Water Overtopping





# Road Closures



East Franklin Road at 12<sup>th</sup> Avenue NE



Robinson Street between 48<sup>th</sup> Avenue NW  
and 60<sup>th</sup> Avenue NW



Porter Avenue North of Tecumseh Road

# Flooded Structures

- 29 reports of personal property flood damage
  - 24 are related to flooding on property or washed/inaccessible driveways
  - 5 Flooded structures include garages, sheds and patios
  - **None of the locations reported were located in a floodplain**
- Areas identified as repetitive loss were inspected and no damage was documented
- No new or unknown areas of flooding



# Flooding Factors

## Infrastructure

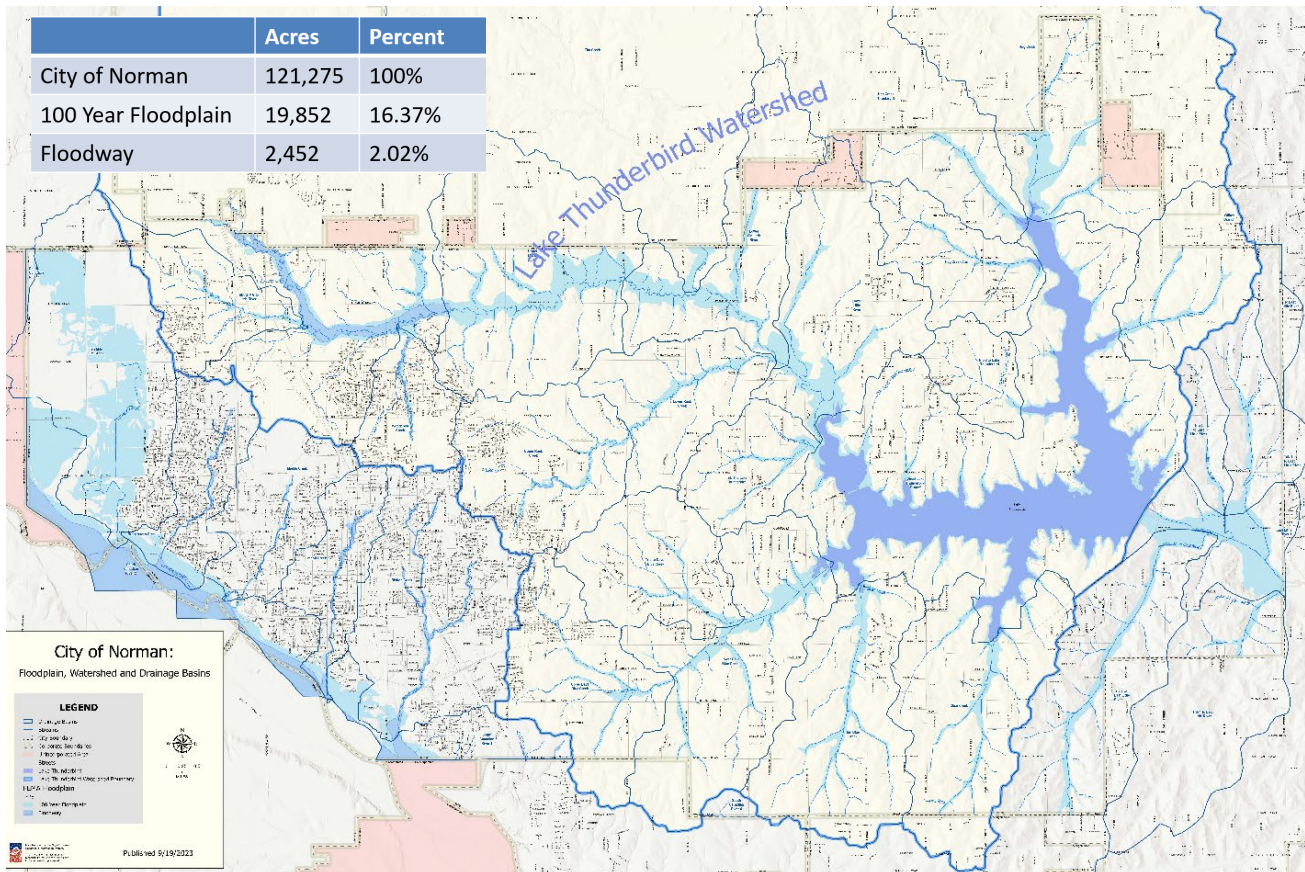
- Lack of and undersized infrastructure (Core areas and older neighborhoods)
- Lack of Maintenance
  - Replace worn out infrastructure
  - Street/inlet cleaning
  - Stream bank stabilization
- Lack of maintenance to private infrastructure impacts public infrastructure as well as the private property it serves (detention ponds and drainage channels)





# Flooding Factors

## Floodplains & Creeks



# Improvements



The Vineyards Detention Area





# Improvements



Main Street – Brookhaven Creek Bridge

# Improvements



Franklin Road west of 12<sup>th</sup> Avenue NW



McGee Drive at Lindsey Street  
(Lake McGee)



# Improvements



Imhoff Bridge at Lindsey Street

# Improvements

Floodplain Restoration and Green Space Expansion  
**218 S. Lahoma**

**2022**



**2023**



In 2025, 214 S. Lahoma was also purchased and dedicated to green space, native plants to be planted in June 2025.



# Identified Projects

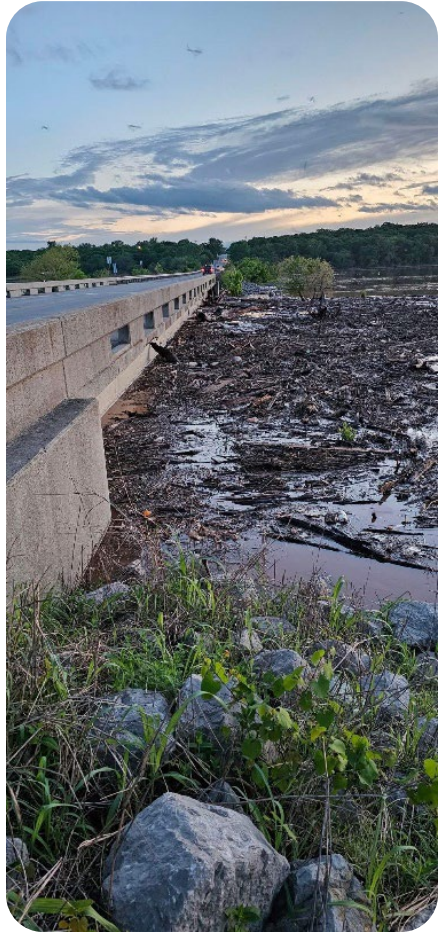
## Infrastructure Projects

- Porter Avenue Bridge
- Lindsey Street from Elm Avenue to Jenkins Avenue
- Lindsey Street From Pickard Avenue to Elm Avenue
- Summit Lakes Dam Repair (Grant Secured)





## Twin Bridges Debris



# Post Storm Damages



Brookhaven Creek Pedestrian  
Bridge Collapse



10 Mile Flat Creek Bank  
Erosion



# Post Storm Damages



Large Void on Rock Creek Road and  
60<sup>th</sup> Avenue NW



Rock Creek Road Repairs Underway

# Post Storm Damages



Flooding at Indian Hills Road between  
24<sup>th</sup> Ave NW and Blue Lake Drive



Pipe Washout and Repair at Indian Hills  
Road and Blue Lake Drive



# Post Storm Damages



Pipe Failure Causing Sinkholes at Rambling Oaks Drive



# Post Storm Damages



Road Failure Robinson Street between 48<sup>th</sup> Avenue NW and 60<sup>th</sup> Avenue NW

# Post Storm Damages



Robinson Street between 48<sup>th</sup> Avenue NW and 60<sup>th</sup> Avenue NW Repair Underway



# Post Storm Damages



Large Tree Debris at Imhoff Creek Bridge



# Post Storm Damages



Sewer Failure near 730 Stinson Avenue



Post Oak Road Pipe Failure and Repair

# Post Storm Damages

- 41 pothole locations associated with flood event.
- 1,259 pounds of cold patch material
- Roughly 4 tons hot mix asphalt material
- 30 tons gravel for temp road repair / alley grading
- 10 Bridge locations affected with debris drift removal (ongoing)
- 3 single pipe crossing failures repaired following storm
- 1 undermine / void under roadway repaired following storm
- 2 bridges / multi culvert banks remain to be repair and reopened – Robinson Street and Rock Creek Road (west side)
- Stormwater Damage Discovered in Storm Event
  - 380' of 56" round pipe replacement- Rambling Oaks
  - 610' of 36" round pipe replacement – Robinson Street and Crossroads Boulevard
  - 416' of pipe varying between 24" and 56" need on Stinson Avenue
  - 245' of 18" pipe needed on Ridgeline Drive



# Stormwater Funding Comparison

## OKLAHOMA CITY

POPULATION: 631, | AREA: 620 MI<sup>2</sup> | PHASE I MS4  
STORMWATER FEE: \$5.69 TO \$658.92 BASED ON WATER METER SIZE

## TULSA

POPULATION: 403,505 | AREA: 196.8 MI<sup>2</sup> | PHASE I MS4  
STORMWATER FEE: \$5.43 PER ESU (ESU=2,650 FT<sup>2</sup>)

## NORMAN

POPULATION: 117,528 | AREA: 189.5 MI<sup>2</sup> | PHASE II MS4  
STORMWATER FEE: NONE

## BROKEN ARROW

POPULATION: 106,653 | AREA: 60.1 MI<sup>2</sup> | PHASE II MS4  
STORMWATER FEE: \$5.77 PER ERU (ERU=2,650 FT<sup>2</sup>)  
- OFFERS A 10% DISCOUNT FOR PRIVATE ONSITE DETENTION PONDS

## LAWTON

POPULATION: 96,867 | AREA: 81.0 MI<sup>2</sup> | PHASE II MS4  
STORMWATER FEE: \$0.75 PER CONNECTION  
- OFFERS SENIOR AND DISABILITY DISCOUNTS

## EDMOND

POPULATION: 88,605 | AREA: 87.9 MI<sup>2</sup> | PHASE II MS4  
STORMWATER FEE: \$3.00 PER ESU (ESU=4,860 FT<sup>2</sup>)  
- DUPLEXES OR MULTI-FAMILY ARE CHARGED \$1.50 PER DWELLING UNIT. ALL OTHER REAL ESTATE TAKES INTO ACCOUNT THE IMPERVIOUS SURFACE AREA TO CALCULATE THE NUMBER OF ESUS FOR THAT PROPERTY.

## MOORE

POPULATION: 60,451 | AREA: 22.2 MI<sup>2</sup> | PHASE II MS4  
STORMWATER FEE: NONE

## MIDWEST CITY

POPULATION: 56,756 | AREA: 24.6 MI<sup>2</sup> | PHASE II MS4  
STORMWATER FEE: \$2.42 TO \$19.40 BASED ON WATER METER SIZE

## ENID

POPULATION: 50,725 | AREA: 74.1 MI<sup>2</sup> | NOT AN MS4  
STORMWATER FEE: \$3.67 PER MONTH UP TO \$459.00 BASED ON ESU (ESU = 5,000 FT<sup>2</sup>)  
- OFFERS A 50% CREDIT FOR RESIDENTIAL PROPERTIES WITH REDUCED IMPERVIOUS SURFACE AREA

## STILLWATER

POPULATION: 49,504 | AREA: 28.3 MI<sup>2</sup> | PHASE II MS4  
STORMWATER FEE: \$1.00 FLAT FEE FOR RESIDENTIAL  
\$5.00 TO \$55.00 PER ERU (ERU=5,000 FT<sup>2</sup>) FOR COMMERCIAL

Norman is the third largest and only municipality of it's size to lack a dedicated funding source for stormwater maintenance.

The chart shows a detailed fee analysis completed in 2019 as part of the previous stormwater utility election.

\*Fee Analysis Completed in 2019 as part of SWU election

# DISCUSSION QUESTIONS COMMENTS

