



OKC Municipal Water Service



The City of
OKLAHOMA CITY



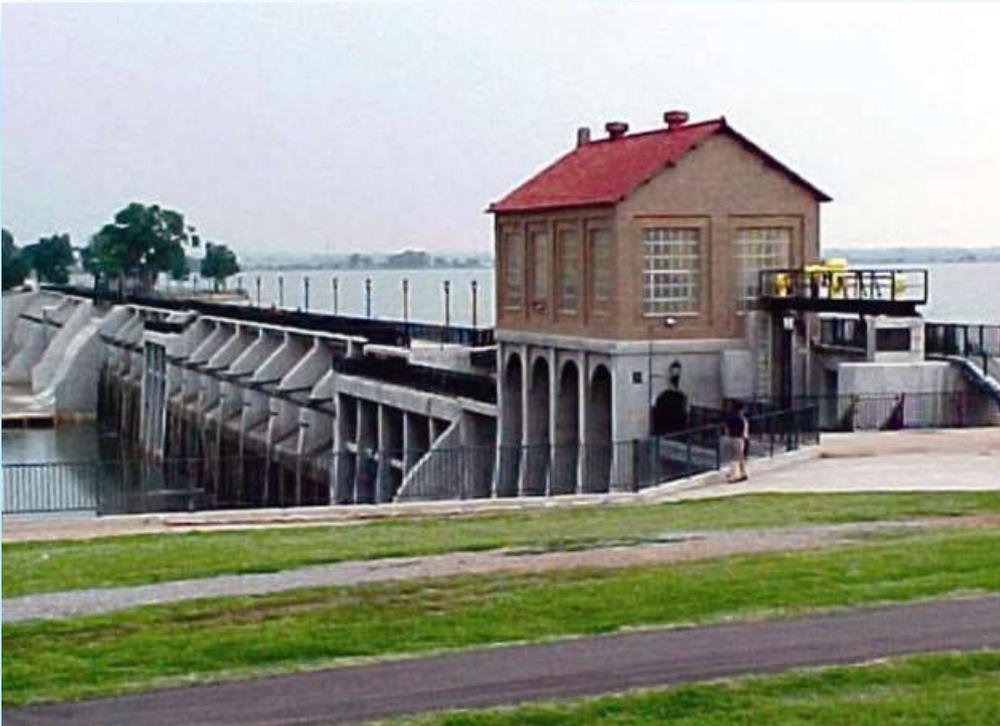
Oklahoma City April 1889



Water Supply Reservoirs

Overholser 1918

- Wells ran dry in summer months
- N. Canadian River next water supply
- 35,000 citizens



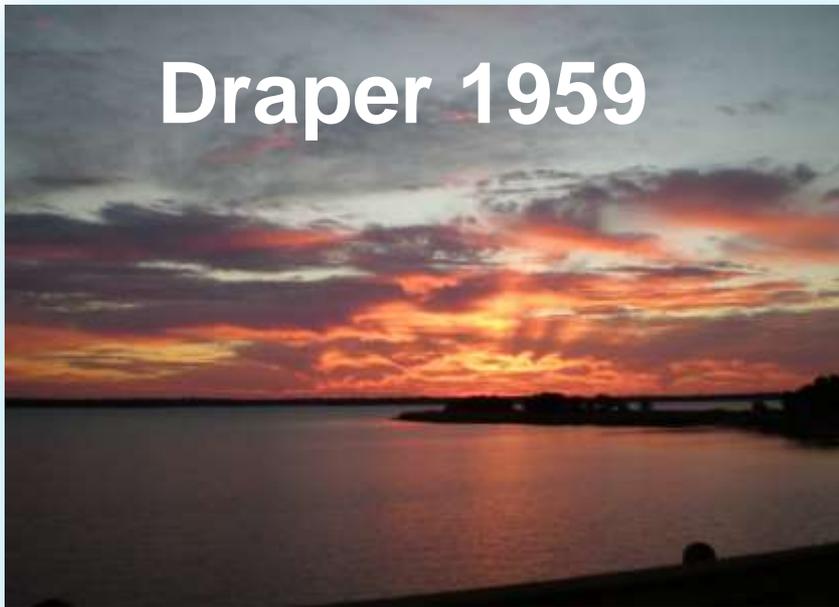
Water Supply Reservoirs

Hefner 1947

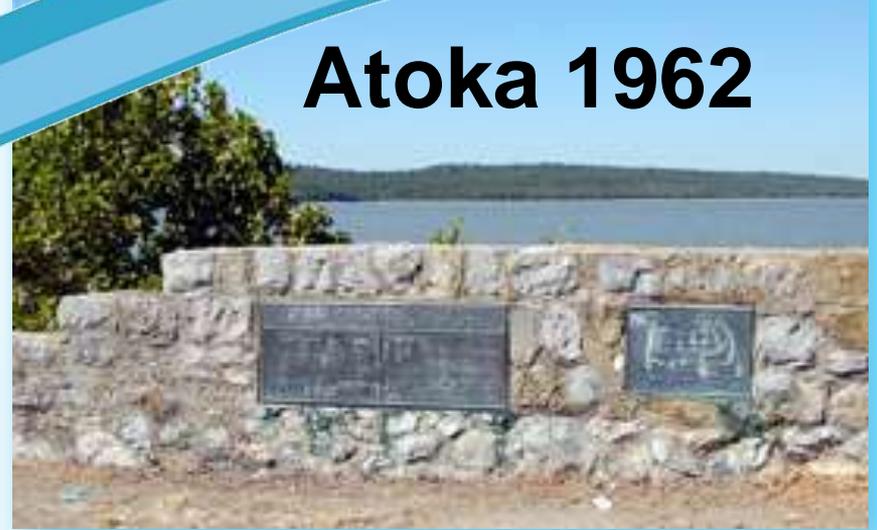
- Construction began in 1937
- Halted during WWII when supplies and manpower were scarce.



Draper 1959



Atoka 1962



- \$61 million project
- Constructed lakes at same time 100 miles apart
- 324,000 citizens
- Water to OKC from SE Oklahoma

Rights in 3 Reservoirs Constructed by Federal Government

1948

Army Corps of Engineers
95,845 acre feet; OKC 100%

Canton Lake

Lake Hefner

Oklahoma
City

Lake
Overholser

Lake
Stanley
Draper

1988

Bureau of Reclamation
99,492 acre feet
OKC Partners 100%

Atoka pipeline

Atoka

Atoka

1983

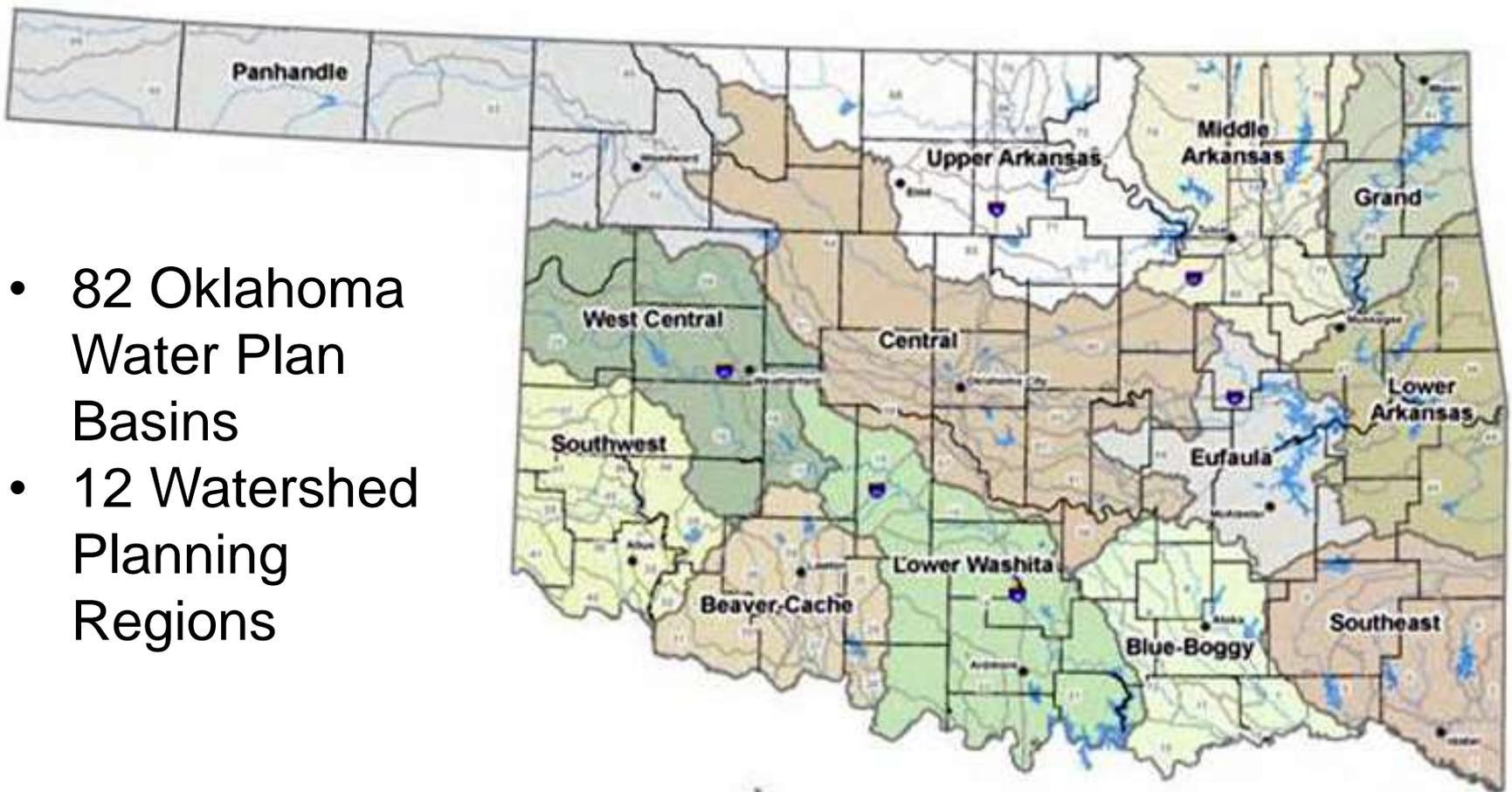
Army Corps of Engineers
400,000 acre feet capacity
2010 OKC acquired storage
contract for 136,000 acre feet

McGee
Creek

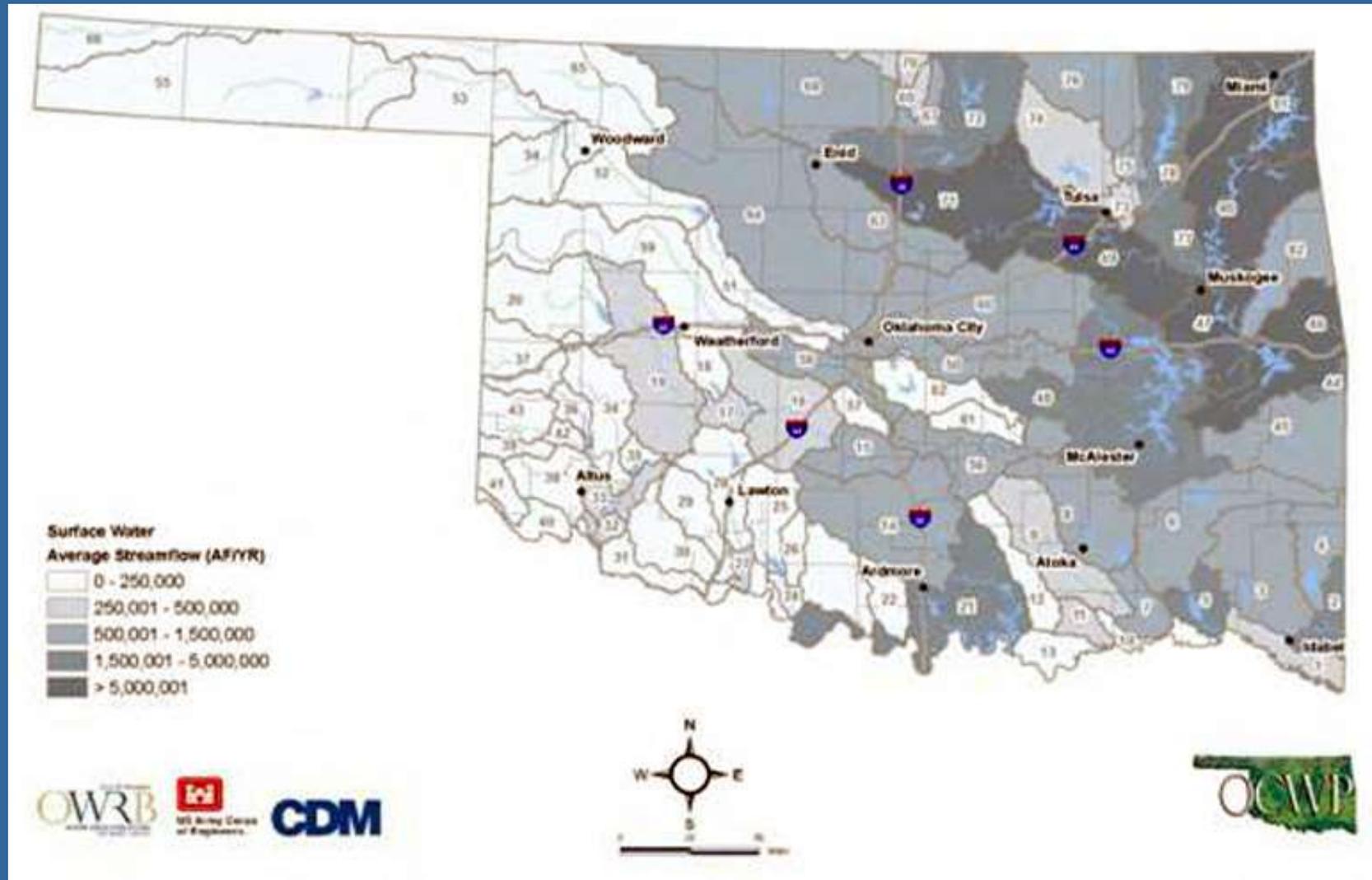
Sardis L



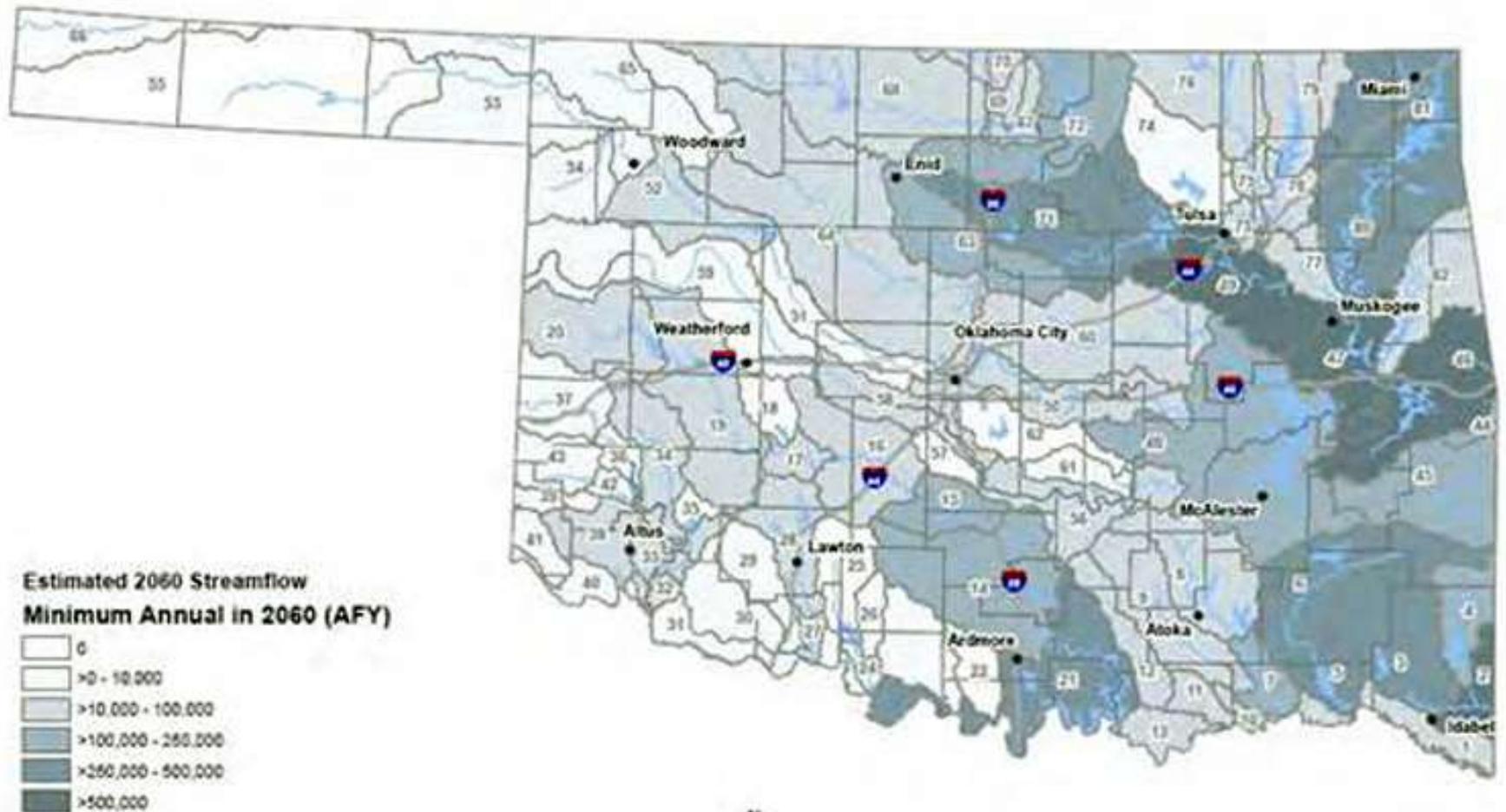
Oklahoma Water Plan Statewide Assessment 2012



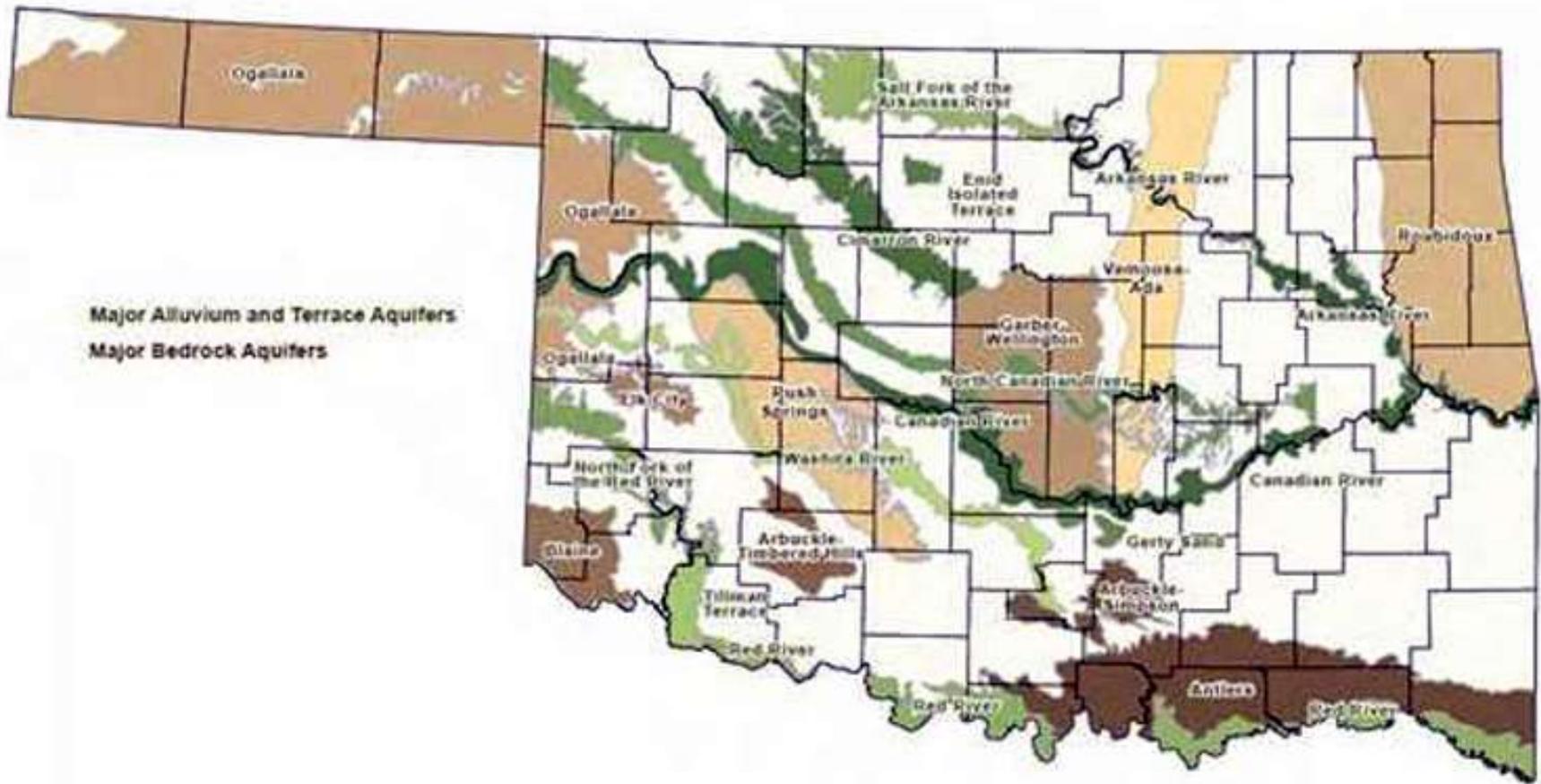
Average Gaged Stream Flow 2007 - 2050



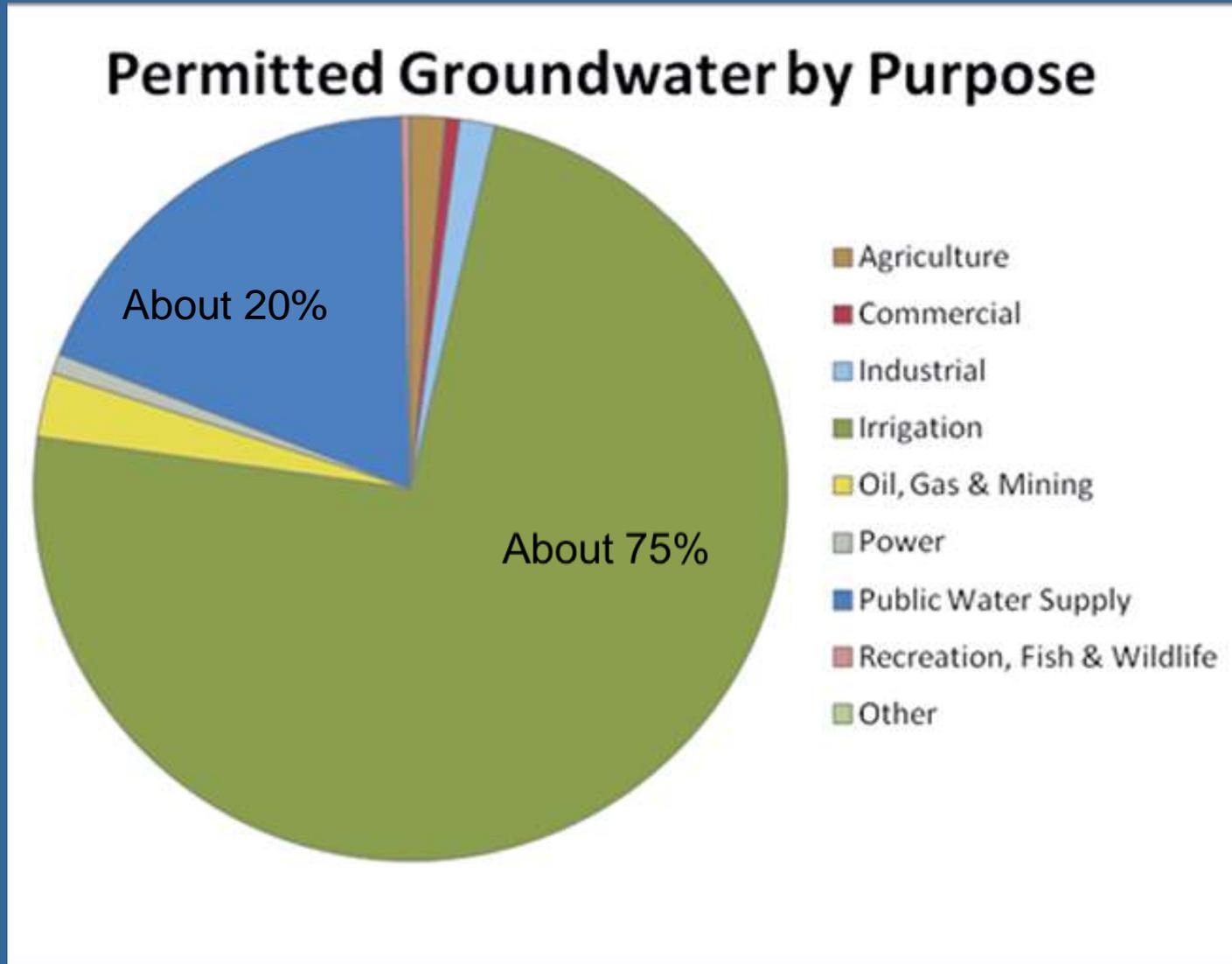
Estimated Minimum Annual Streamflow in 2060



Major Aquifers of Oklahoma

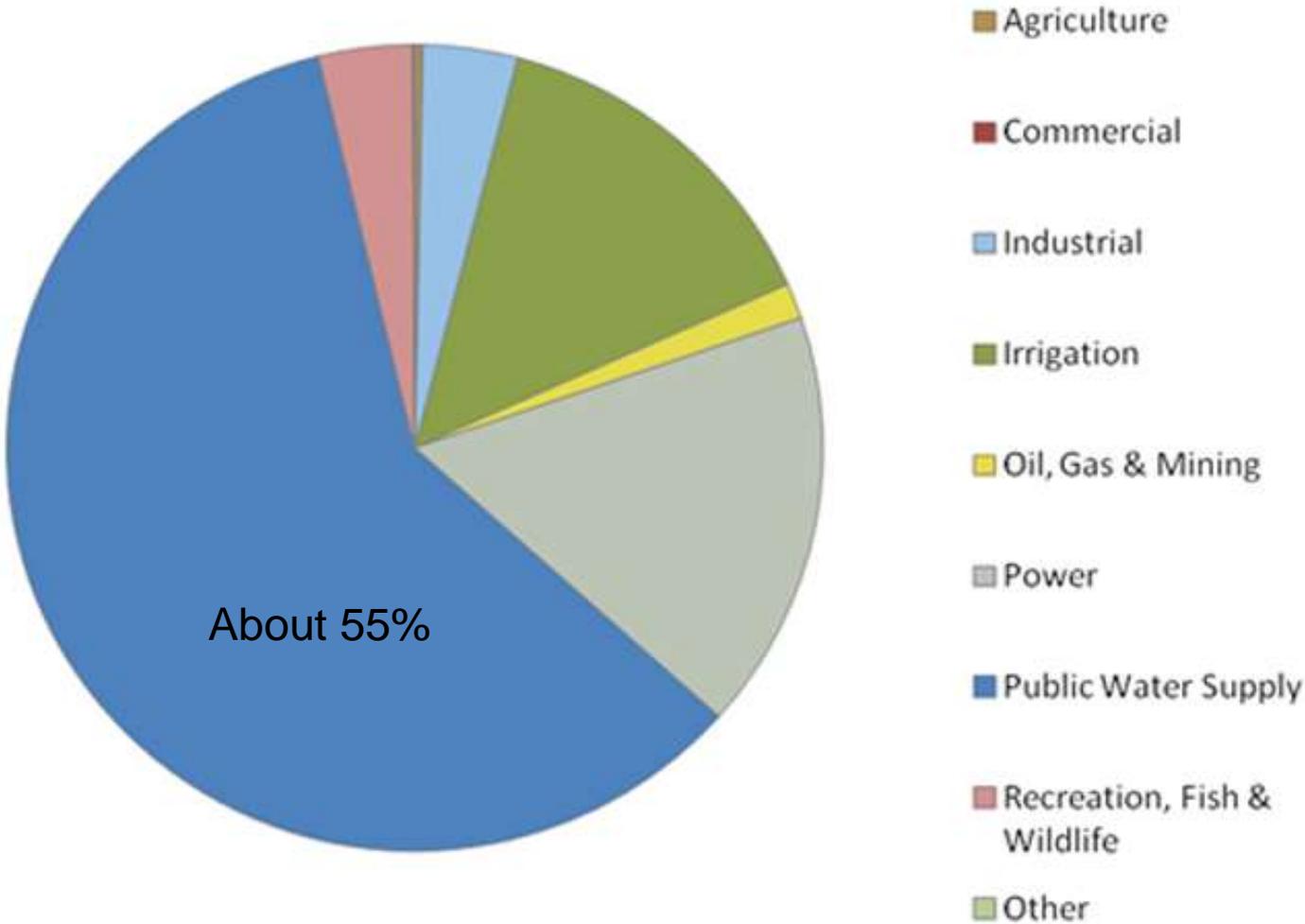


Permitted Groundwater by Purpose

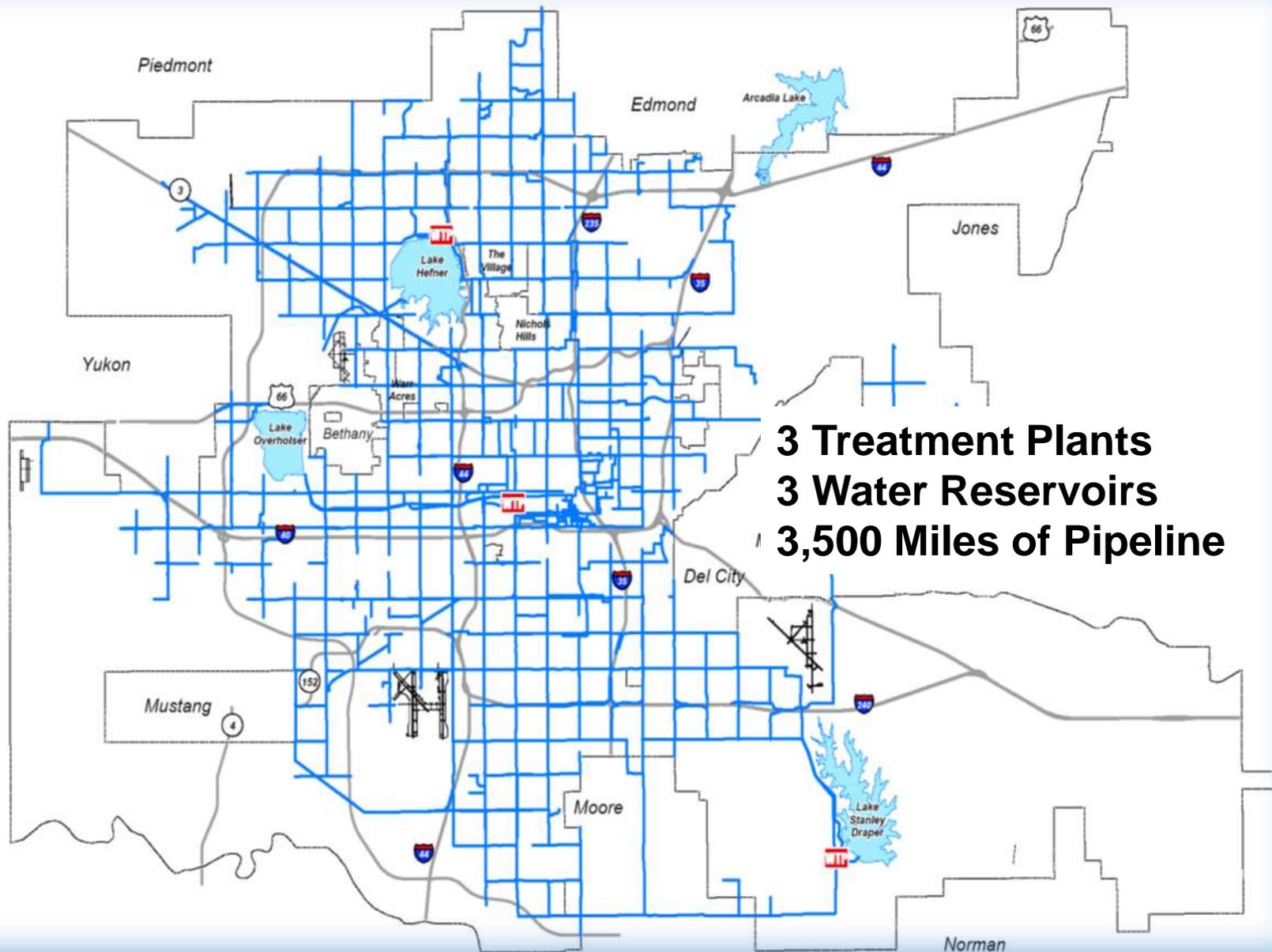


Permitted Surface Water by Purpose

Permitted Surface Water by Purpose



Today's Water Distribution System



3 Treatment Plants
3 Water Reservoirs
3,500 Miles of Pipeline

Amazing OKC Water Facts

- 200,000 water customers; 600,000 citizens
 - 10 neighboring communities receive OKC water
 - 250 million gallon treatment capacity per day
 - 35 billion gallons average water delivered in a year
 - Annual budget: \$120 million
- 

2011: Drought



- Record low levels at all lakes.
- Hefner Lake level reached record low of 17 feet below elevation.

Partnership with OSU Extension



- Building 4 water conservation demonstration gardens
1 completed at OSU Extension campus; 1 opening soon at the OKC Zoo
- Conducting workshops on drought-tolerant plants & grasses and efficient irrigation
- Partnering with nurseries and irrigation companies
- Speaking to neighborhood association meetings
- Hosting booths at Home & Garden Shows

5-Stage Conservation Program



SUN	MON	TUE	WED	THU	FRI	SAT
25	26	27	28	29	30	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	1	2	3	4	5	6



Water Conservation Stages can change at any time. Monitor the current Conservation Stage at

SqueezeEveryDrop.com



	Combined Lake Capacity
1 Mandatory Odd/Even Lawn Watering Last number of the building address - 1, 3, 5, 7, 9 - water odd number days Last number of the building address - 0, 2, 4, 6, 8 - water even number days	Normal Level (Always In Effect)
2 2 Day Per Week Lawn Watering Single-family resident address ends in odd number – Saturdays & Wednesdays Single-family resident address ends in even number – Sundays & Thursdays All others – Tuesdays & Fridays (duplexes, triplexes, homeowner association properties, commercial, industrial, government)	50% or less
3 1 Day Per Week Lawn Watering Single-family resident address ends in 1 or 3 – Saturdays Single-family resident address ends in 5, 7 or 9 – Wednesdays Single-family resident address ends in 0 or 2 – Sundays Single-family resident address ends in 4, 6 or 8 – Thursdays Duplexes, triplexes, homeowner association properties – Tuesdays Commercial, industrial, government, etc. – Fridays	45% or less
4 Hand Watering Gardens & Flower Beds Only Commercial Car Washes with Water Recycling Operations Only	40% or less
5 Ban on all Outdoor Watering & Vehicle Washing	35% or less

Encouraging Conservation



- Water conservation enforcement team
- Focusing more on changing attitudes & behaviors
- Less on enforcement
- Inclining block rates to encourage conservation
 1. \$2.73 per thousand gallons up to 10,000
 2. \$3.14 per thousand gallons over 10,000



SqueezeEveryDrop.com



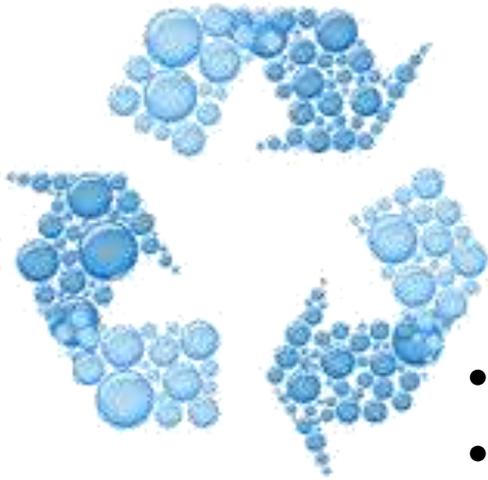
- Websites
- Social media
- Videos
- eNewsletter
- okc.gov
- Events
- Print materials



Upcoming Water System Projects

1. Treated wastewater reuse
2. Second Atoka pipeline
3. Pipe and pump improvements inter-connecting Hefner and Draper service areas





Treated Wastewater Reuse

- Wastewater treated at the Deer Creek plant
- Treated wastewater pumped to Hefner Lake
- Stored for treatment as tap water

Second Atoka Pipeline



- 66-inch pipeline parallel to first 100-mile pipeline.
- Allows 60-year old pipeline rehab for future growth
- Delivers more water to OKC.



50-Year Master Planning Continues Legacy of Former City Officials



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OKLAHOMA CITY

