

Grand River Dam Authority

Water Responsibilities, Goals and Partnerships

Presented to:

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GRDA Overview:

- Created in 1935 to be a **conservation** and **reclamation** district of the waters of the Grand River.
- Three hydroelectric facilities on Grand River
- Manages approx. 70,000 surface acres of lakes.



Grand Lake

GRDA Water Facts:

- Second only to Oklahoma Water Resources Board (OWRB) in amount of jurisdiction over state water resources.
- Provide storage/water supply for 50 Oklahoma water districts and municipal systems, including Tulsa.
- All services associated with administering water supply are provided by GRDA at no cost to Oklahoman taxpayers.

Lake Hudson

The Grand Lake Watershed

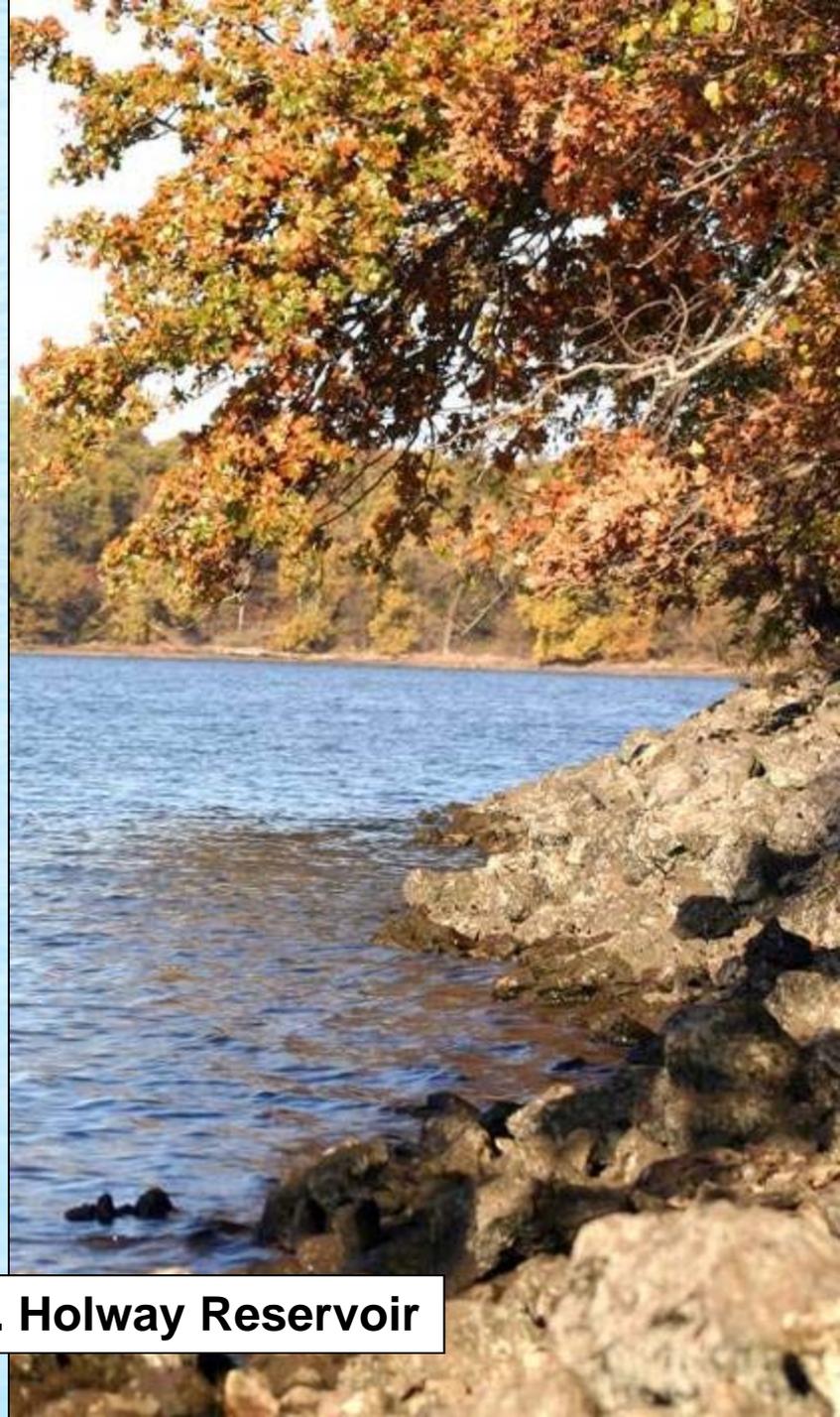


Grand River Dam Authority

An agency of the State of Oklahoma, fully supported by customer revenues instead of taxes.

Key GRDA Water Issues:

- Water supplies
 - *New metering technology*
- Water quality
- Ecosystems Management
 - *Conservation*
 - *Recreation*
- Hydroelectric production and flood control



W.R. Holway Reservoir

Water Supplies:

New metering technology ...

- *Real-time information on water sales, usage*
- *Installed at over 60 sites on Grand River system*
- *Accurate readings*
- *Accurate revenues from water sales*



Ketchum PWA site, Grand Lake



Water Quality:

GRDA Ecosystems Management ...

- *Increased lake focus*
- *Water quality testing*
- *Habitat enhancement*
- *Public awareness*
- *Fisheries management*

GRDA Water Biologist Sam Ziara

Water Quality:

GRDA Ecosystems and Education Center...

- *Enhanced lake presence*
- *State of the art water quality laboratory*
- *Partnerships with Oklahoma and Oklahoma State will provide:*
 - *Proactive solutions*
 - *Leveraging of resources*
 - *Enhanced credibility*



Recent Ecosystems Initiatives:

- GIS identification and inventory
- Habitat evaluation and enhancement
- Encroachment enforcement
- Water quality monitoring and testing; metals, nutrients, dissolved oxygen
- Revision of permitting procedures
- Dilapidated dock removal
- Numerous plans for vegetation, shoreline management, fishing tournaments



**Grand Lake shoreline enhancement,
OWRB and GRDA**

Hydroelectric production:



**Pensacola Dam
(Grand Lake)**
120 Megawatt capacity
Constructed 1938-1940



**Robert S. Kerr Dam
(Lake Hudson)**
114 Megawatt capacity
Constructed 1962-1964



**Salina Pumped Storage Project
(W.R. Holway Reservoir)**
260 Megawatt Capacity
Stage 1 completed 1968
Stage 2 completed 1972

- GRDA dams provide an annual hydropower benefit of \$13 – \$25 million

Flood control:



Under the direction of the United States Army Corps of Engineers, GRDA operates floodgates at Pensacola and Robert S. Kerr dams to minimize and control downstream flooding.



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