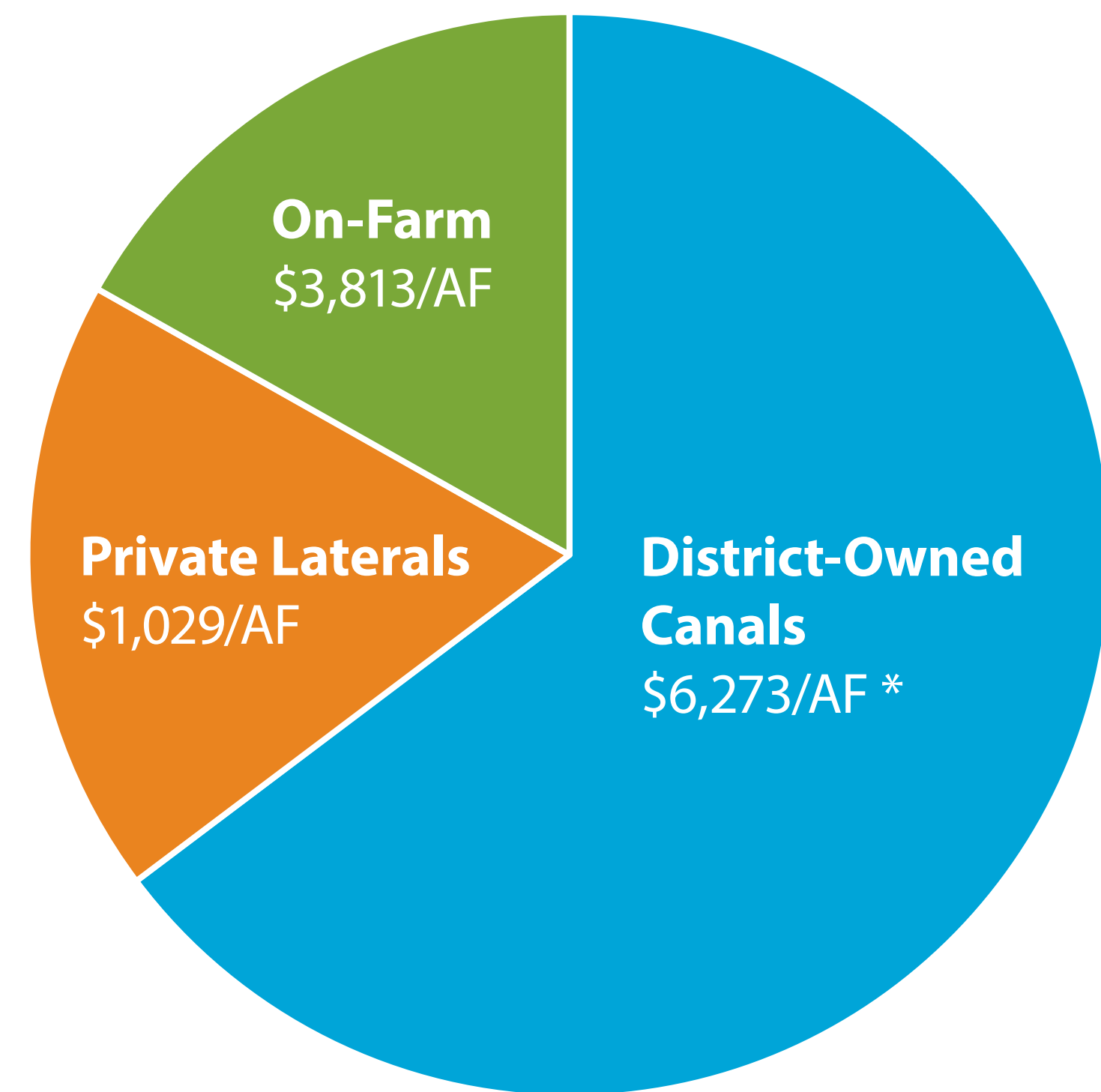


# Water Supply Options: Water Conservation

The Water Conservation Assessment analyzed actions that increase efficiency of irrigation water delivery and use through modernizing irrigation infrastructure.

## Tools assessed include:

- Piping district canals
- Piping privately-owned laterals
- On-farm infrastructure upgrades (e.g., flood to sprinkler irrigation)



**Potential Total Water Conservation:**  
200,000 AF; \$986M



\* Opportunities and costs varied widely between and within districts (\$1,000-\$20,000/AF)

## Benefits

- Upgrading infrastructure improves irrigation district and on-farm management and operations
- The same amount of acres can be irrigated with less water
- Piping canals and laterals increases opportunities for other tools like water marketing

## Challenges

- Piping district canals is expensive
- Potential opposition to district canal piping
- Efficiency upgrades on privately-owned laterals and on-farm requires action by multiple private parties involving additional costs

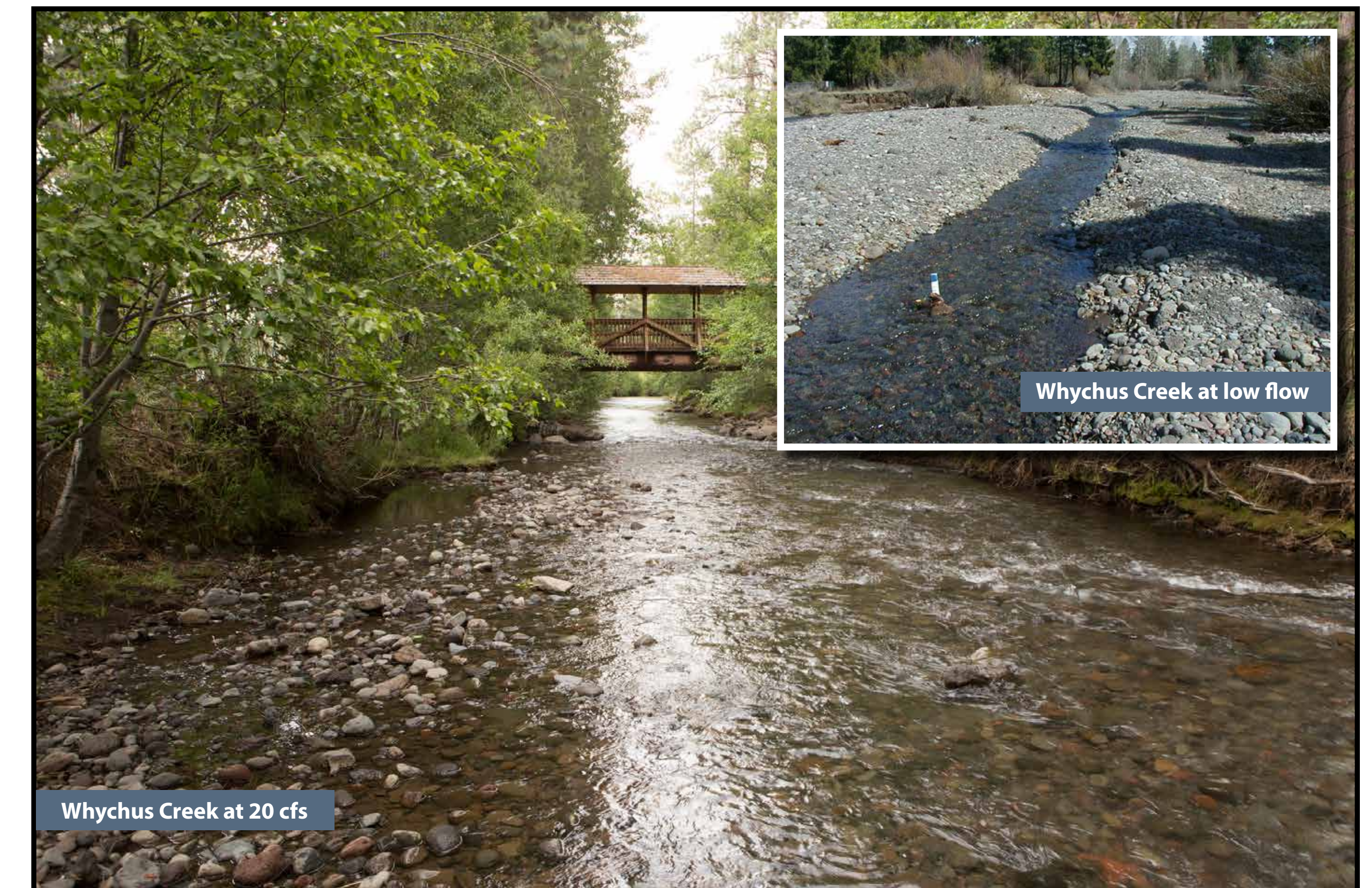


**Important Note:** The Study will not recommend, propose, or endorse any particular action. It will assess the general potential for water conservation as a possible element for consideration during future water resource planning by stakeholders.

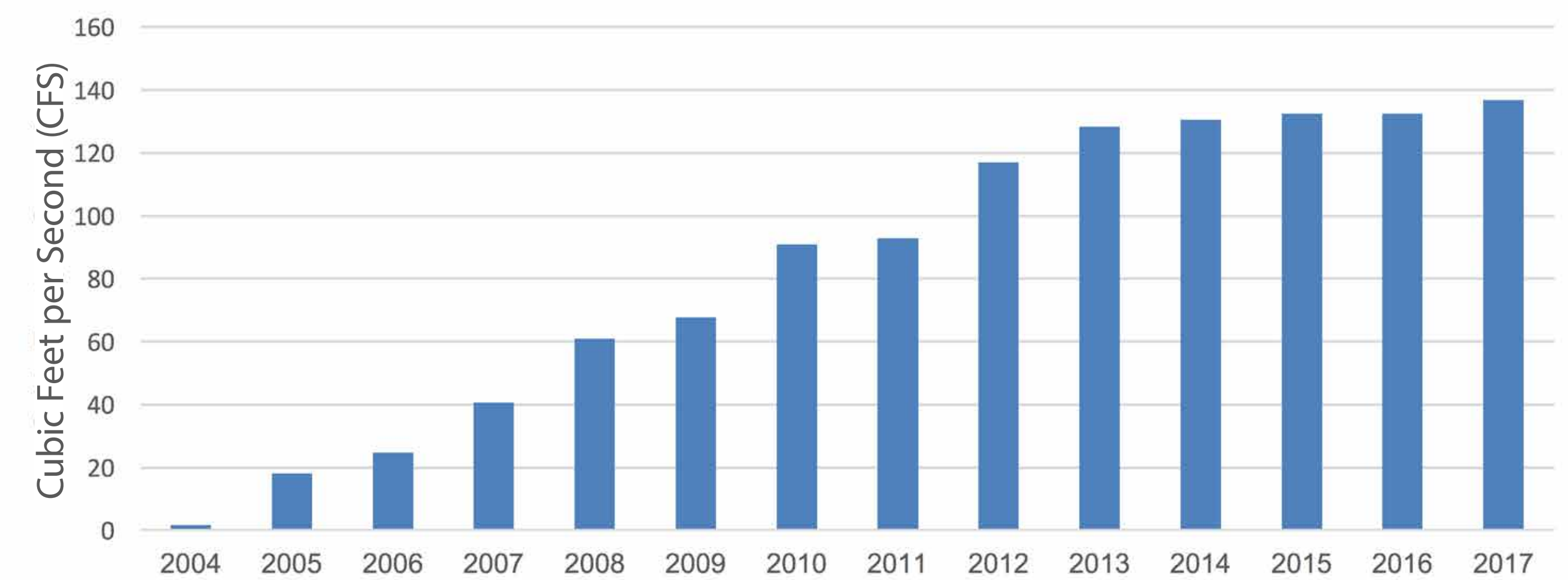


THE UPPER DESCHUTES  
**BASIN STUDY**  
Water for agriculture, rivers & cities

## A Proven Tool for Restoring Flows in the Deschutes



Flow Restored from Deschutes Basin Water Conservation  
2004-2017



## Overview of Tools

Water Supply Tool	Supply (AF)	Total Cost	Avg \$/AF
<b>Water Conservation Infrastructure</b>	<b>200,000</b>	<b>\$986 M</b>	<b>\$4,930</b>
Market-Based Incentives	164,000	\$65 M	\$398
Storage	40,000	\$200 M	\$5,000