City of Bozeman
Water Supply Case Study

May 2, 2016

Water Policy Interim Committee

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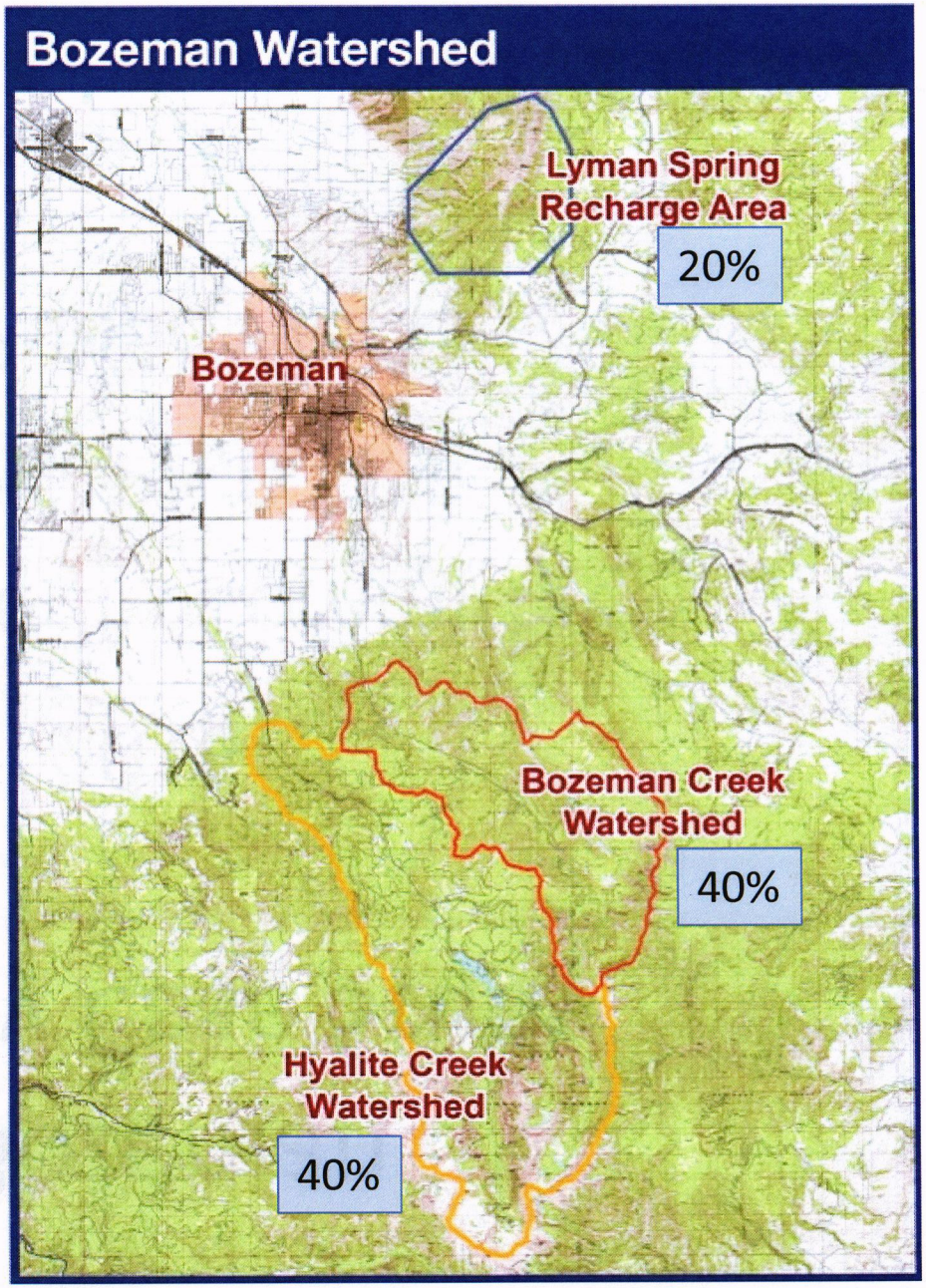
Director of Public Works

CITY OF BOZEMAN WATER CONSERVATION

BOZEMAN MT Public Works

Bozeman Water Supply

- 11,500 ac-ft Annual Reliable Yield
- 17,100 ac-ft Water Rights
- Senior Water Rights
- Water Right or Cash in Lieu at Annexation



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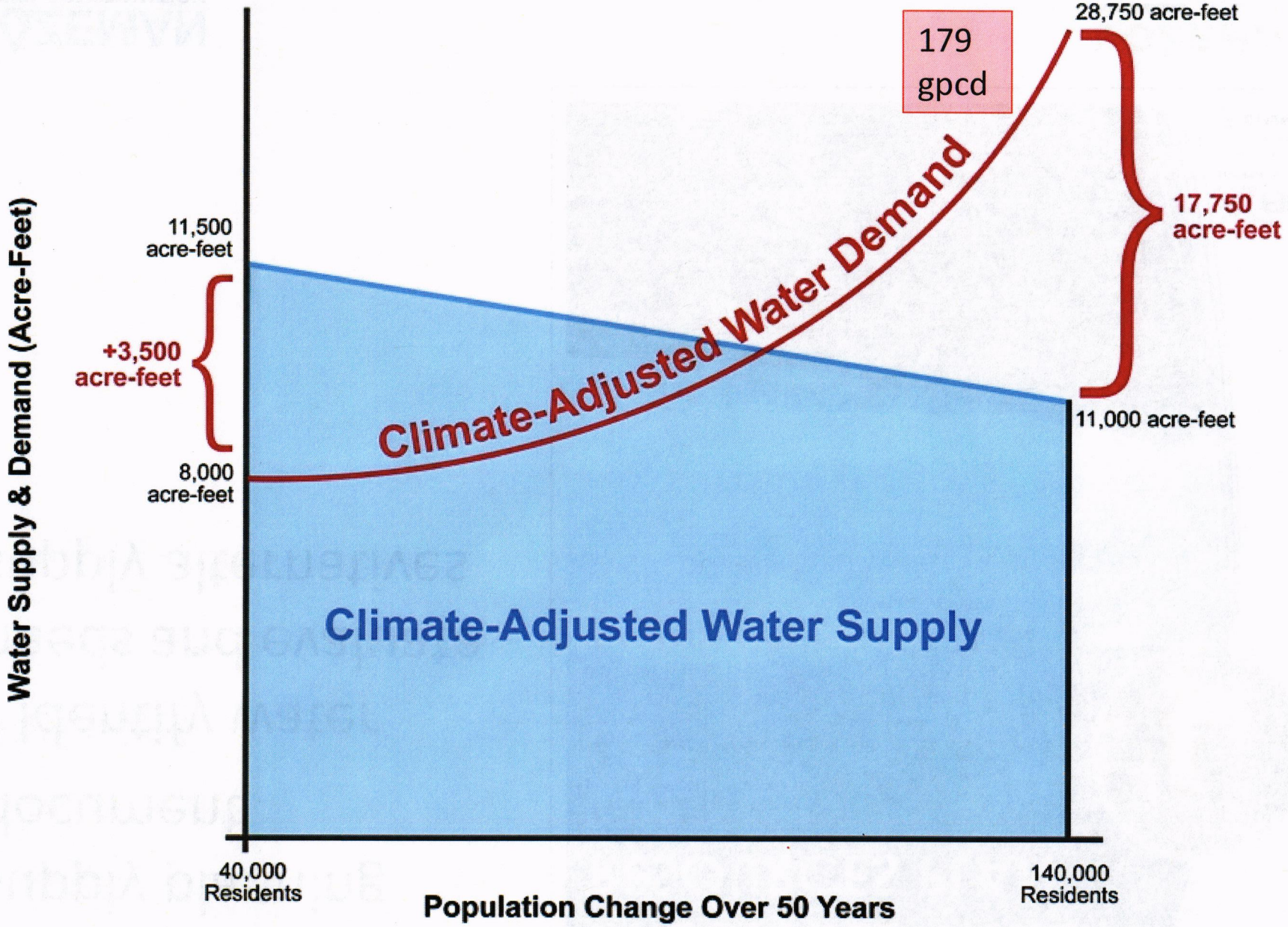

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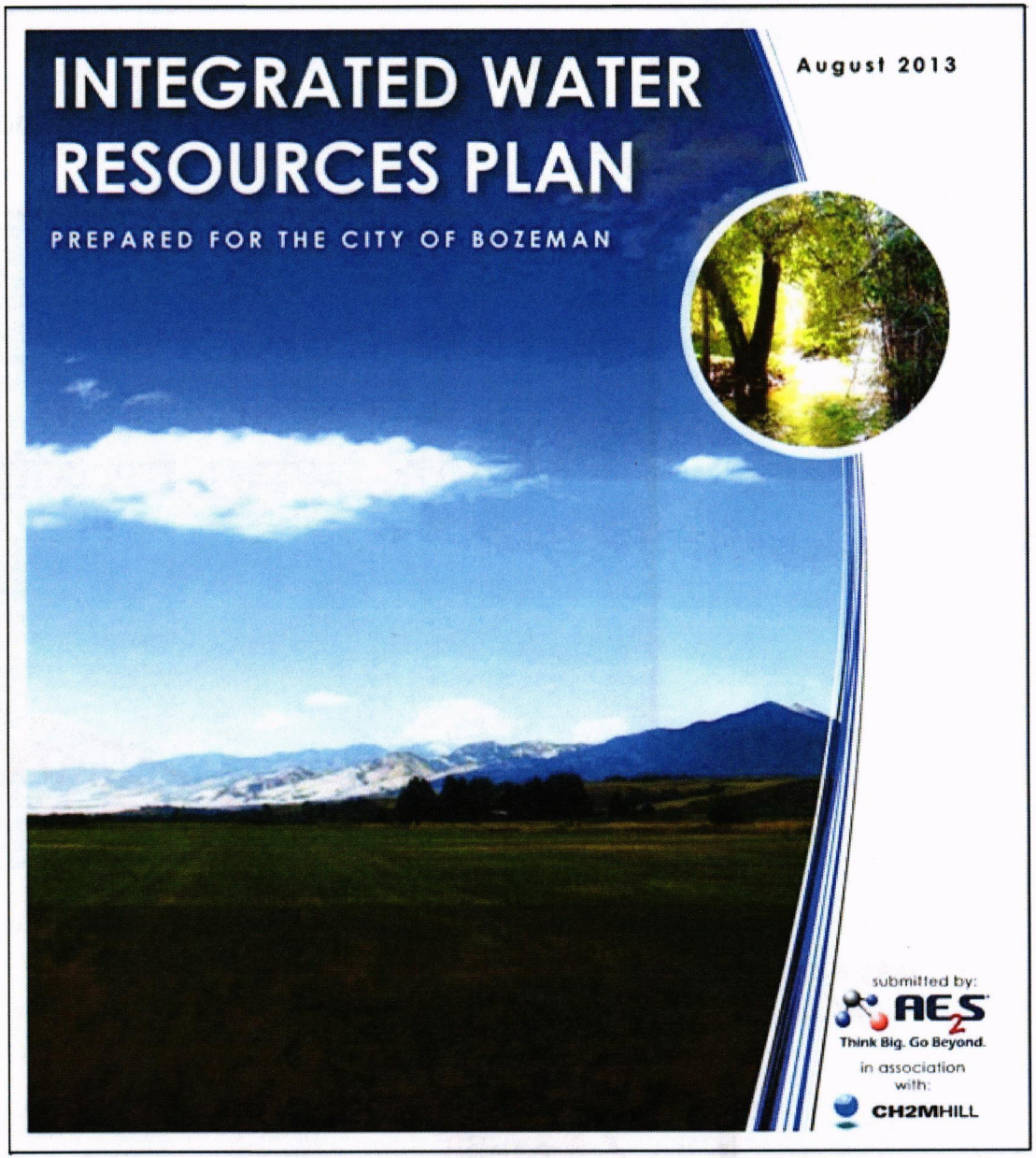
- 50-year water supply planning document
- Identify water needs and evaluate supply alternatives



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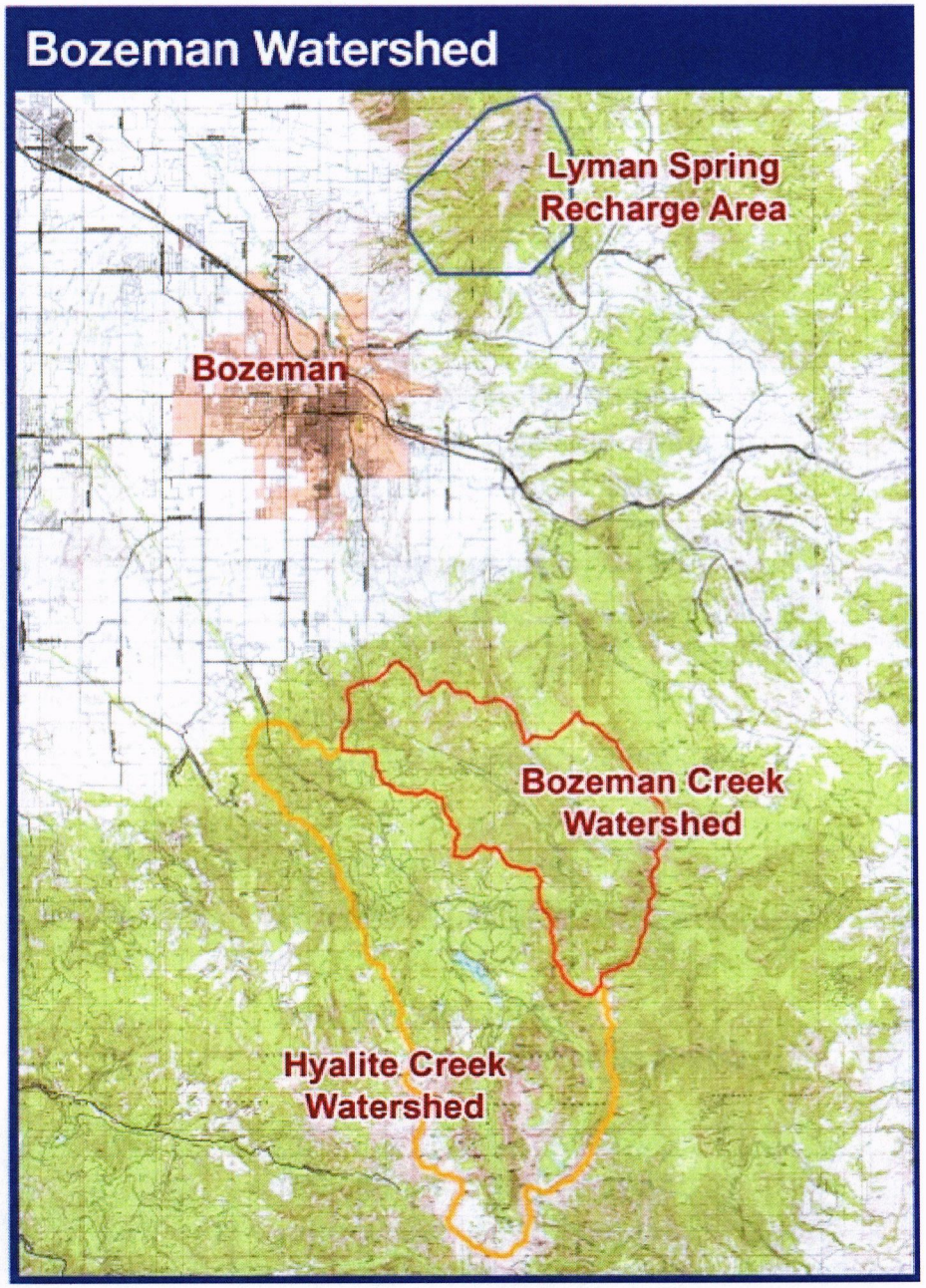
New Supply Alternative	50-year Volume Target (AF)	Implementation To-Date
Water Conservation	10,100	In-Progress: Hired Staff and Developing a Robust Water Conservation Program
Hyalite Res. Share Purchase	650	In-Progress: Purchase as shares become available.
Optimize Lyman Creek Source	3,165	In-Progress: Preliminary Engineering
Non-Potable Irrigation	1,200	In-Progress: Water Facility Plan Update
Sourdough Impoundment(s)	915	2015 RRGL Grant Submitted: missed funding line
Groundwater	5,810	In-Progress: Groundwater Investigation & Development of Gallatin GW Mitigation Bank
Hyalite Dam Raise	Unknown	
Salar	Unknown	Potential for GW Mitigation bank

Municipal Water Supply Challenges

- Public Water Systems
  - Economy
  - **Public Health**
  - **Public Safety**
- Implications
  - Water Quantity
  - Water Quality



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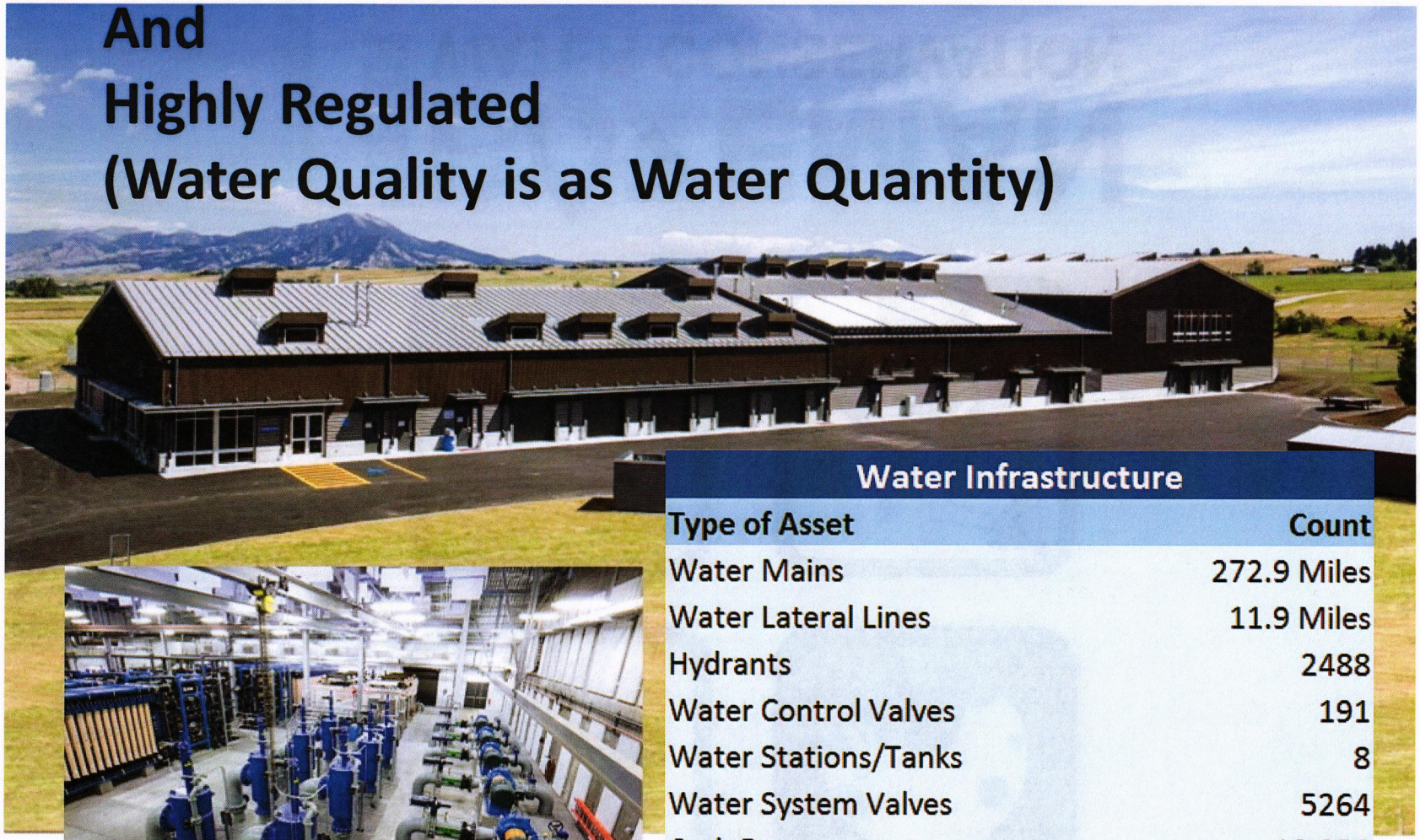
Supplying Municipal Water is Capital Intensive And Highly Regulated (Water Quality is as Water Quantity)



Water Infrastructure	
Type of Asset	**Count**
Water Mains	272.9 Miles
Water Lateral Lines	11.9 Miles
Hydrants	2488
Water Control Valves	191
Water Stations/Tanks	8
Water System Valves	5264
Curb Boxes	10,856
Water Meters	12,068
Additional Water Features	9,527

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Changing Water Use Requires Changing Human Behavior

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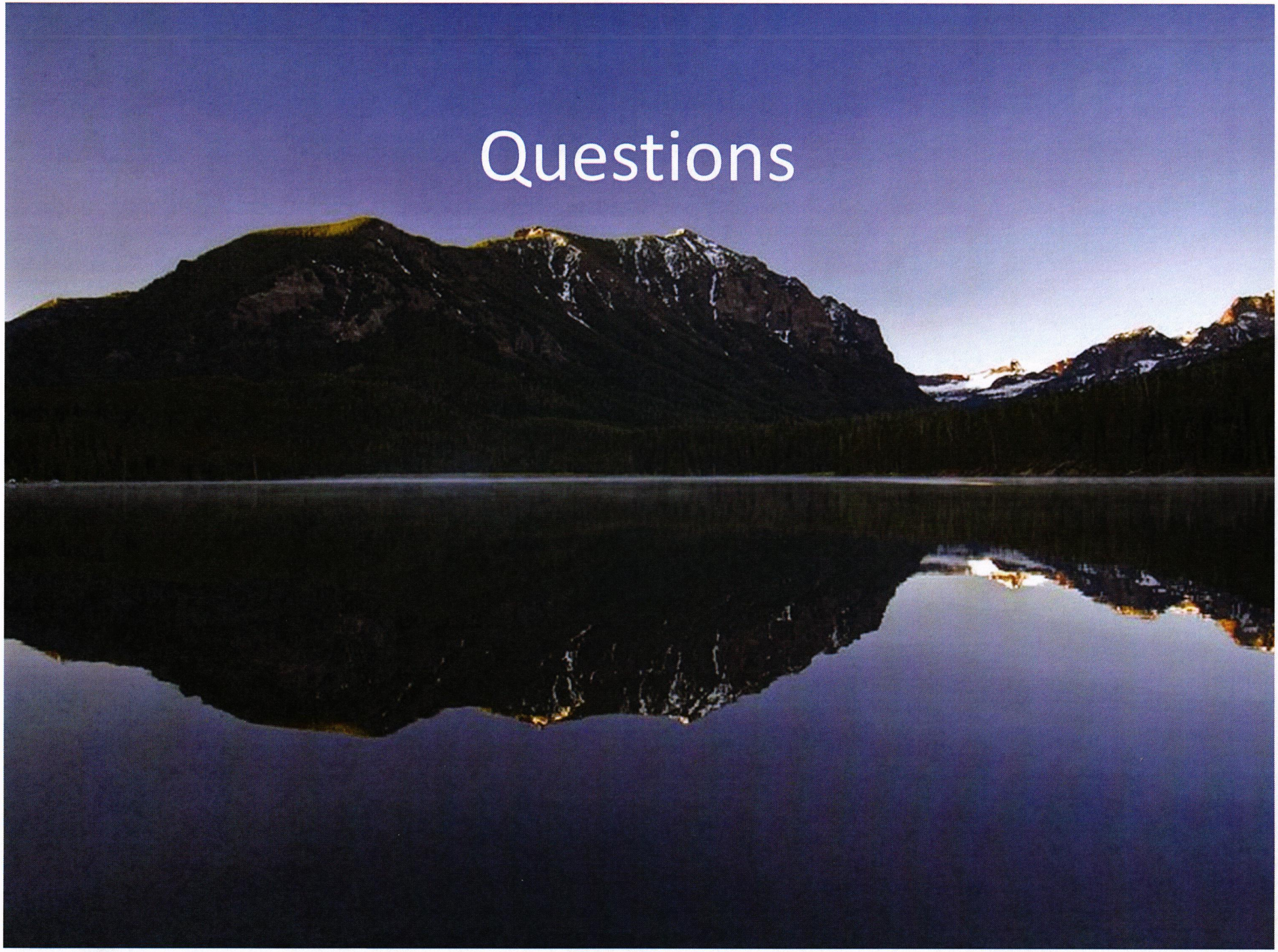
Questions