



Hermiston-Area Water Innovation

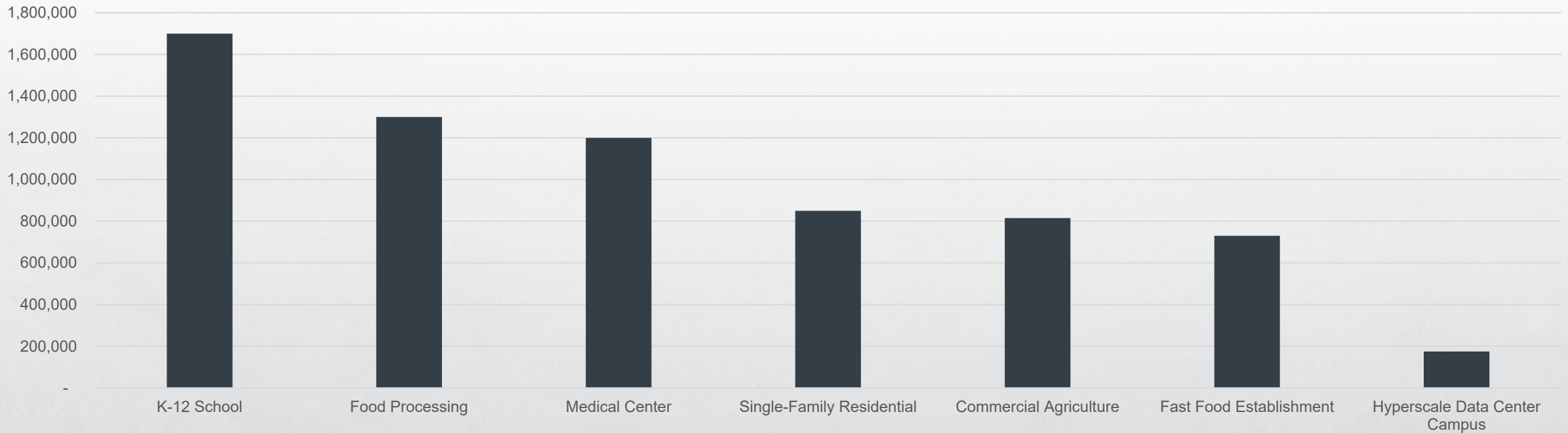
Data Center Advisory Committee: March 27, 2026





How is water in Hermiston used?

Hermiston Area Gross Annual Water Consumption by Use Gallons per Acre



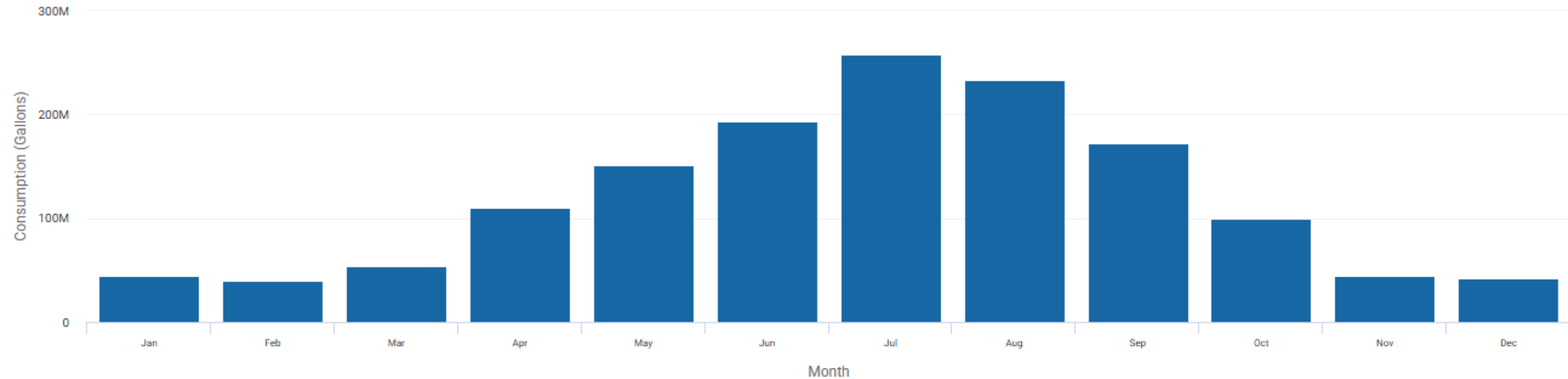


When is water in Hermiston used?

Print/Download

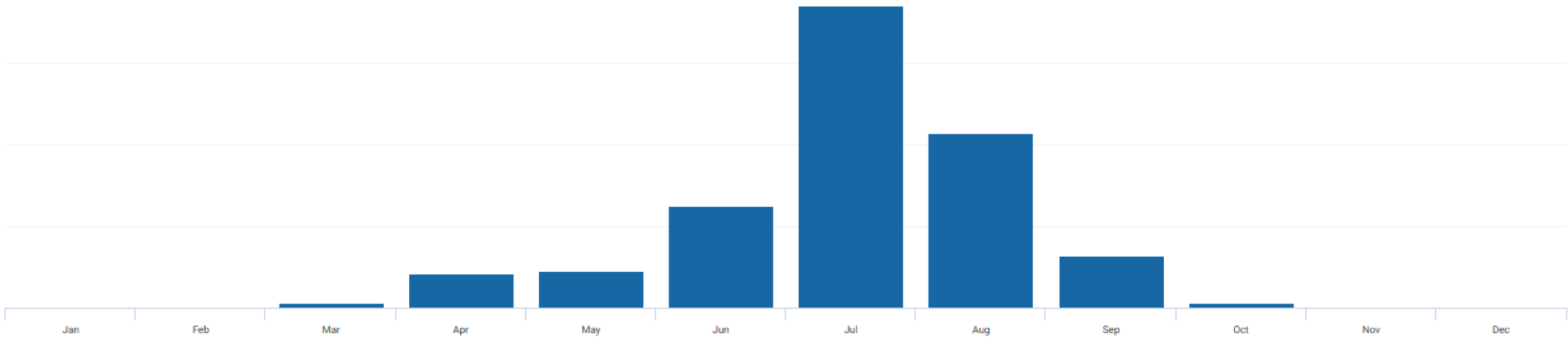
Monthly 2024

More Options



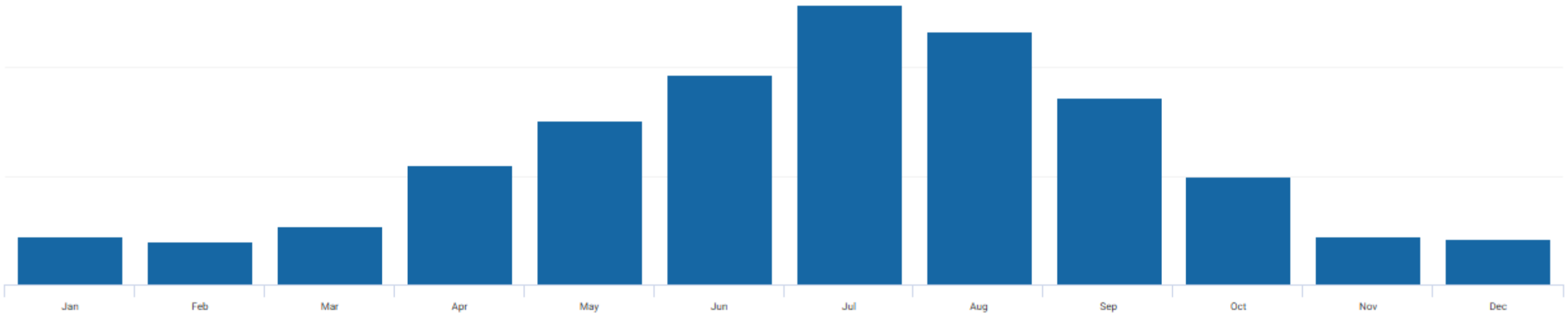


Data Center Annual Demand Curve



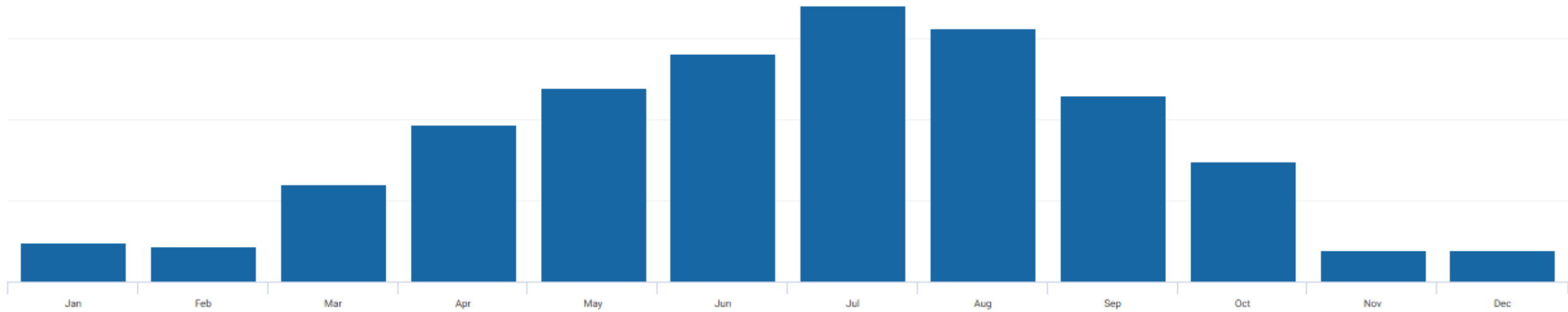


Residential Annual Demand Curve



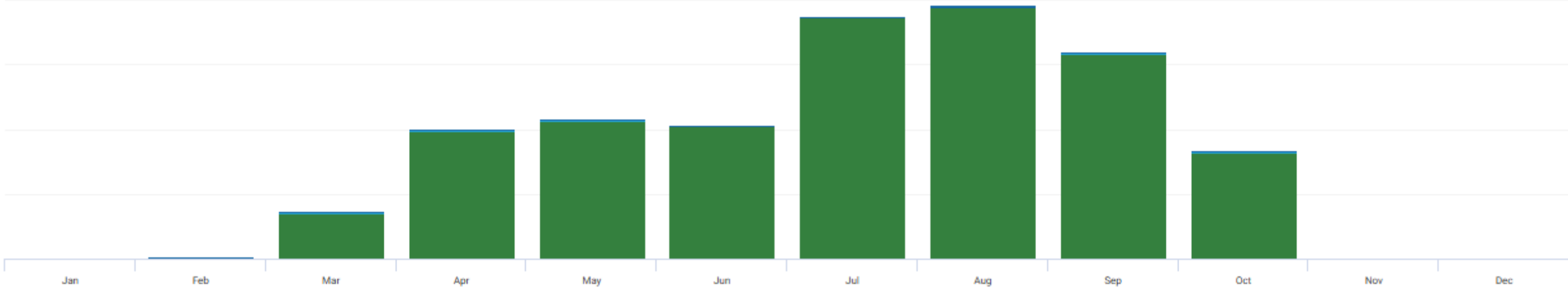


Medical Center Annual Demand Curve





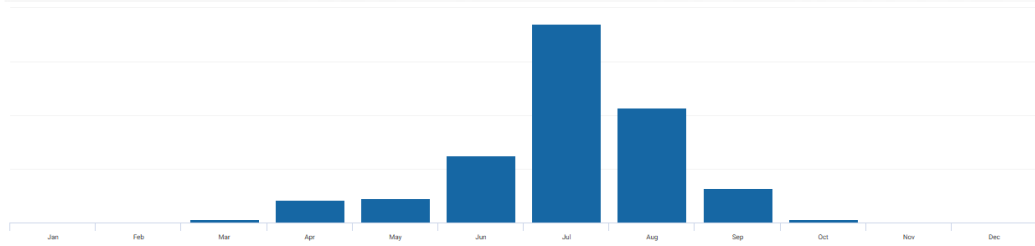
K-12 Annual Demand Curve



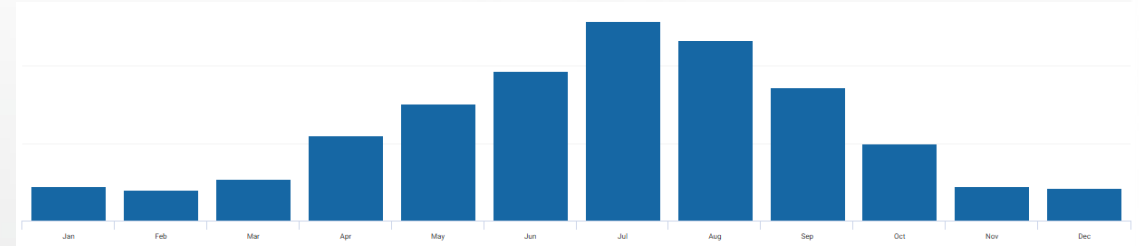


When is water in Hermiston used?

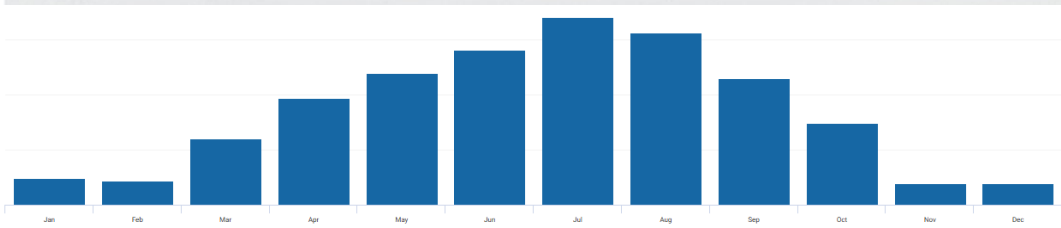
Data Centers



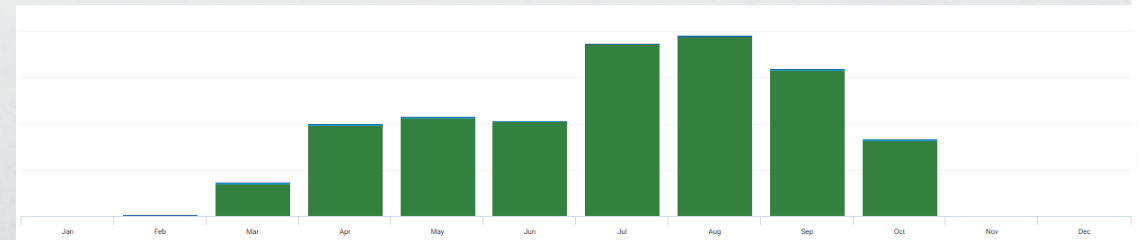
Residential



Medical Center



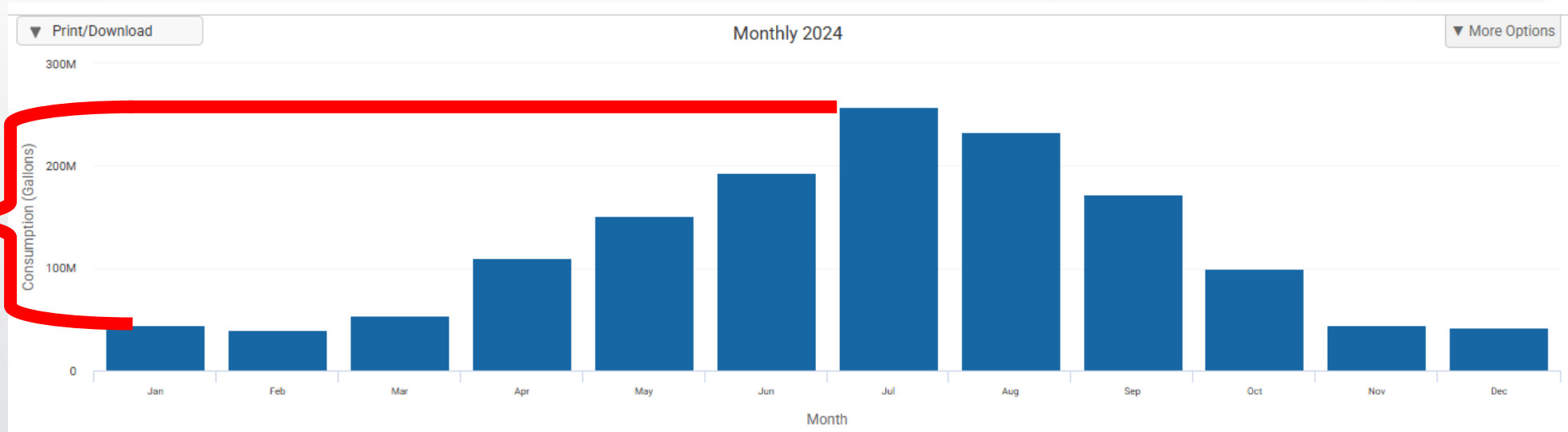
Elementary School





When is water in Hermiston used?

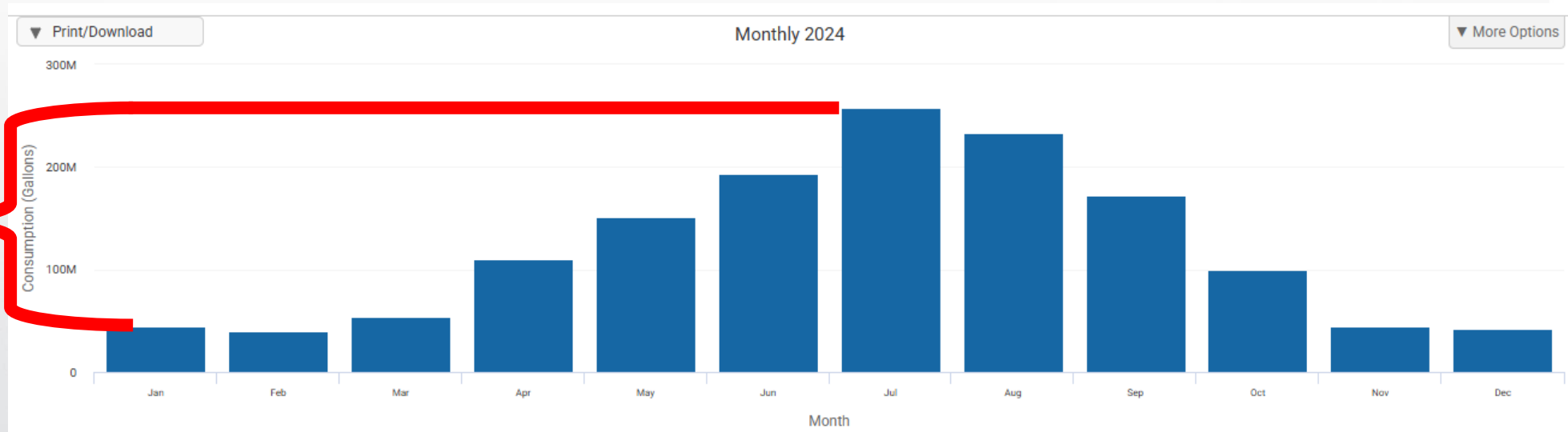
6.45X
Peak
Factor





When is water in Hermiston used?

Wasted
Infrastructure
Capacity 9+
Months per
Year





Aquifer Storage & Recovery

Solving for the Summertime Peak





Aquifer Storage & Recovery

- Treated Drinking Water
- Stored in Aquifer
- Recovered just like normal Well





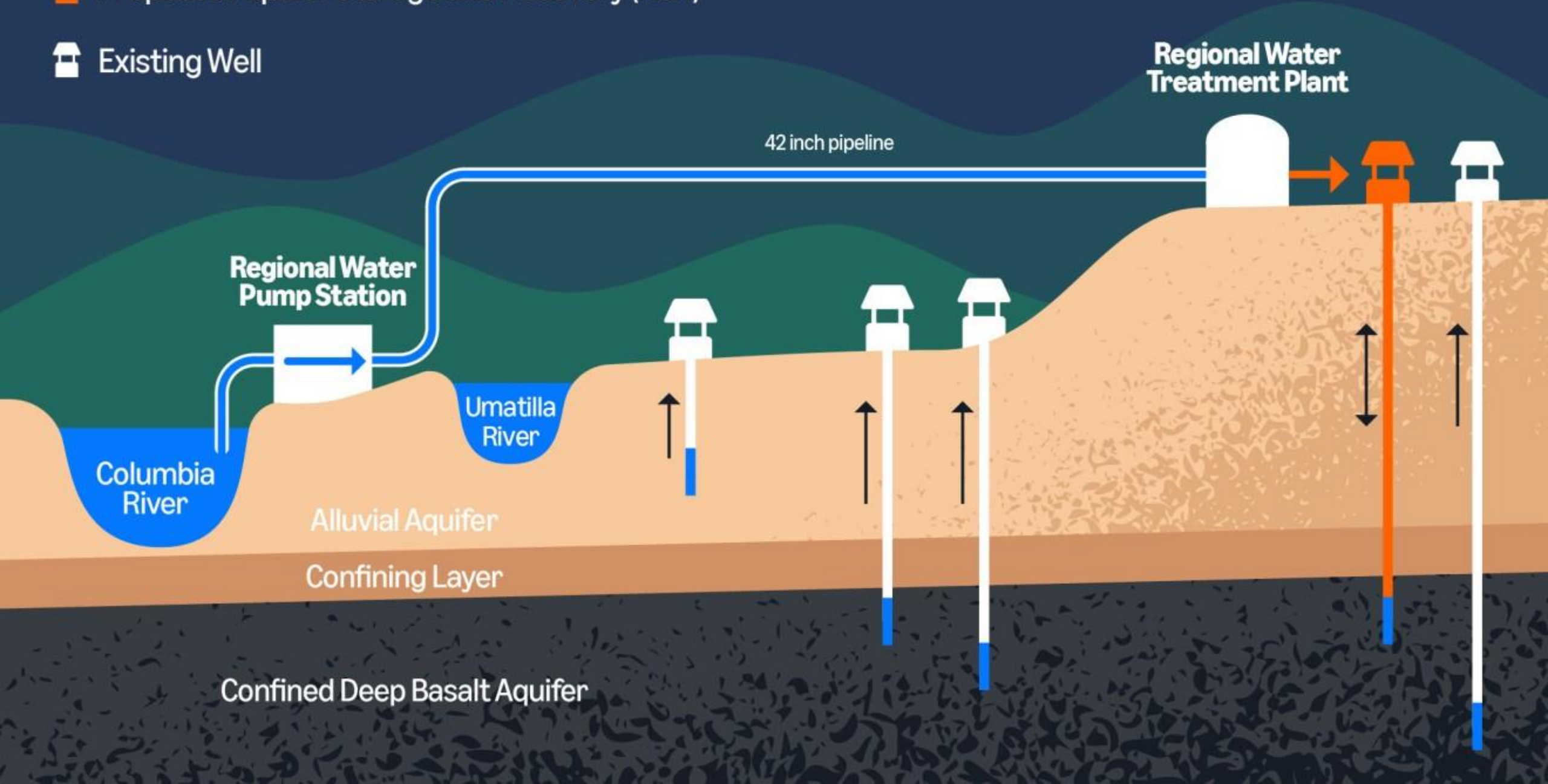
ASR Technology: Time Tested

- PNW Communities Already Using
 - Kennewick, WA
 - Pendleton, OR
 - The Dalles, OR
 - Prineville, OR



 Proposed Aquifer Storage and Recovery (ASR)

 Existing Well

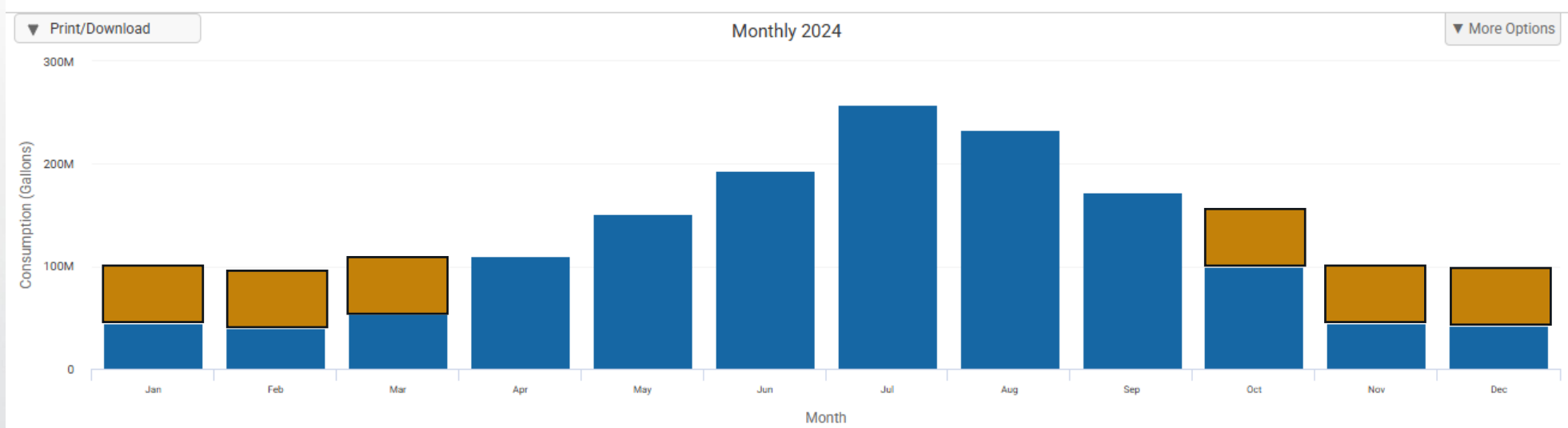




Hermiston's ASR Plan

Store ~360MG
per year when
not needed by
3F's

- Fish
- Farmers
- Families





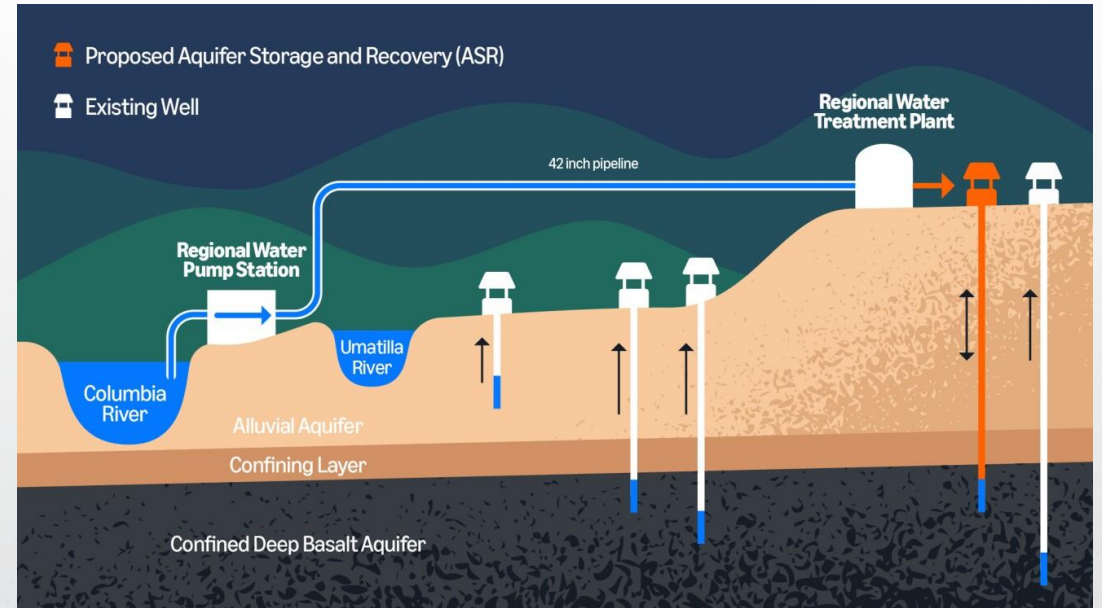
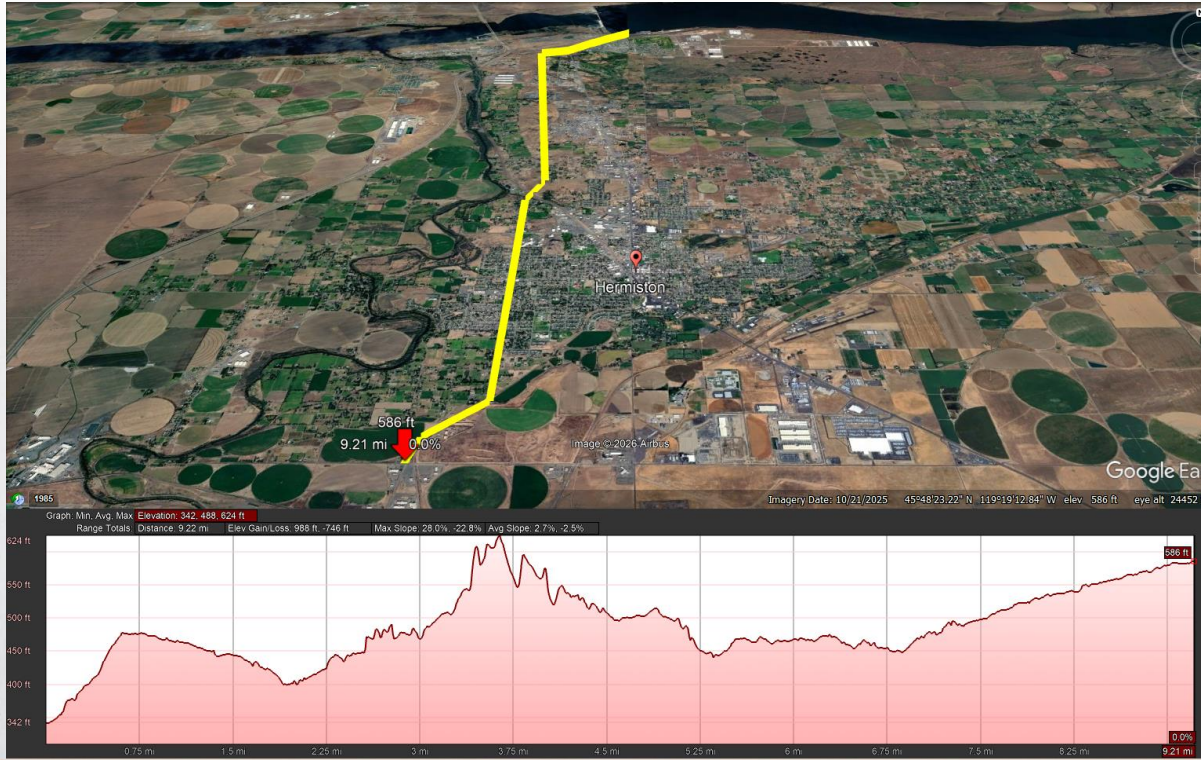
Future Data Center Supply

- No Summer Withdrawals
- Summer Water Stays for
 - Fish
 - Farmers
 - Families





Data Centers Paying the Freight





Data Center + ASR = Water+

- LBGWMA
 - Declining Aquifer Levels
 - 1970's groundwater mining for Ag





Annual Aquifer Impact

- 100ac Commercial Ag
+81.5MG/yr **Avoided Extraction**
- 100ac Data Center
-0MG/yr **Aquifer Extraction**
+100MG/yr **Aquifer Contribution**
+10MG/yr **Avoided Irrigation through Reuse**





Data Center + ASR = Water+

191 Million Gallons Per Year Benefit to
Stabilizing Water Levels in the Lower Umatilla
Basin Groundwater Management Area





QUESTIONS?

*Where Life is Sweet*TM