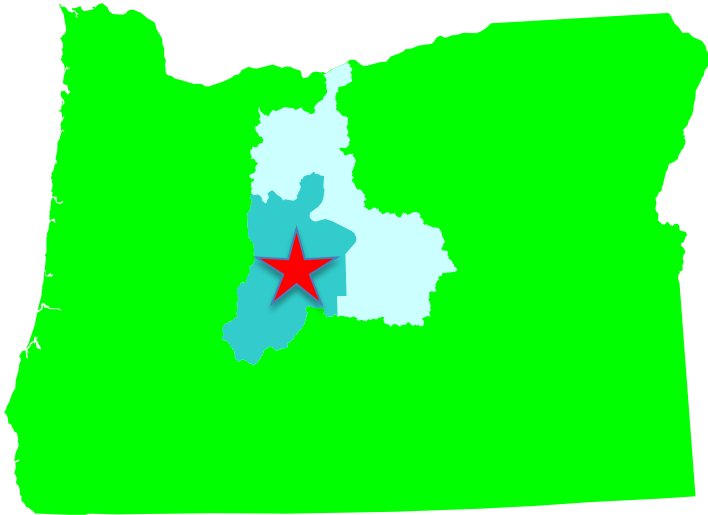




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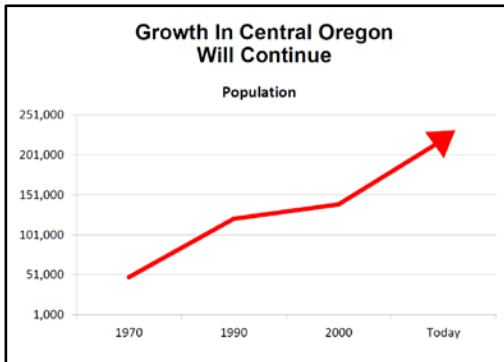
Bend, Culver, La Pine, Madras, Maupin
Metolius, Prineville, Redmond, Sisters

DESCHUTES WATER SUPPLY NEEDS ARE CHANGING



Future Supplies are Limited

- **No new surface water available!**
(All surface water allocated)
- **New Groundwater permits require mitigation**
- **Additional water supply needs for fish, frogs, farms and cities in the basin**



Growth



Climate



Fish – Frogs - Recreation

**Irrigation District
Agricultural
Land in
Basin
+/- 160,000
Acres
(Irrigation District
Boundaries)
Settlement
Acts**

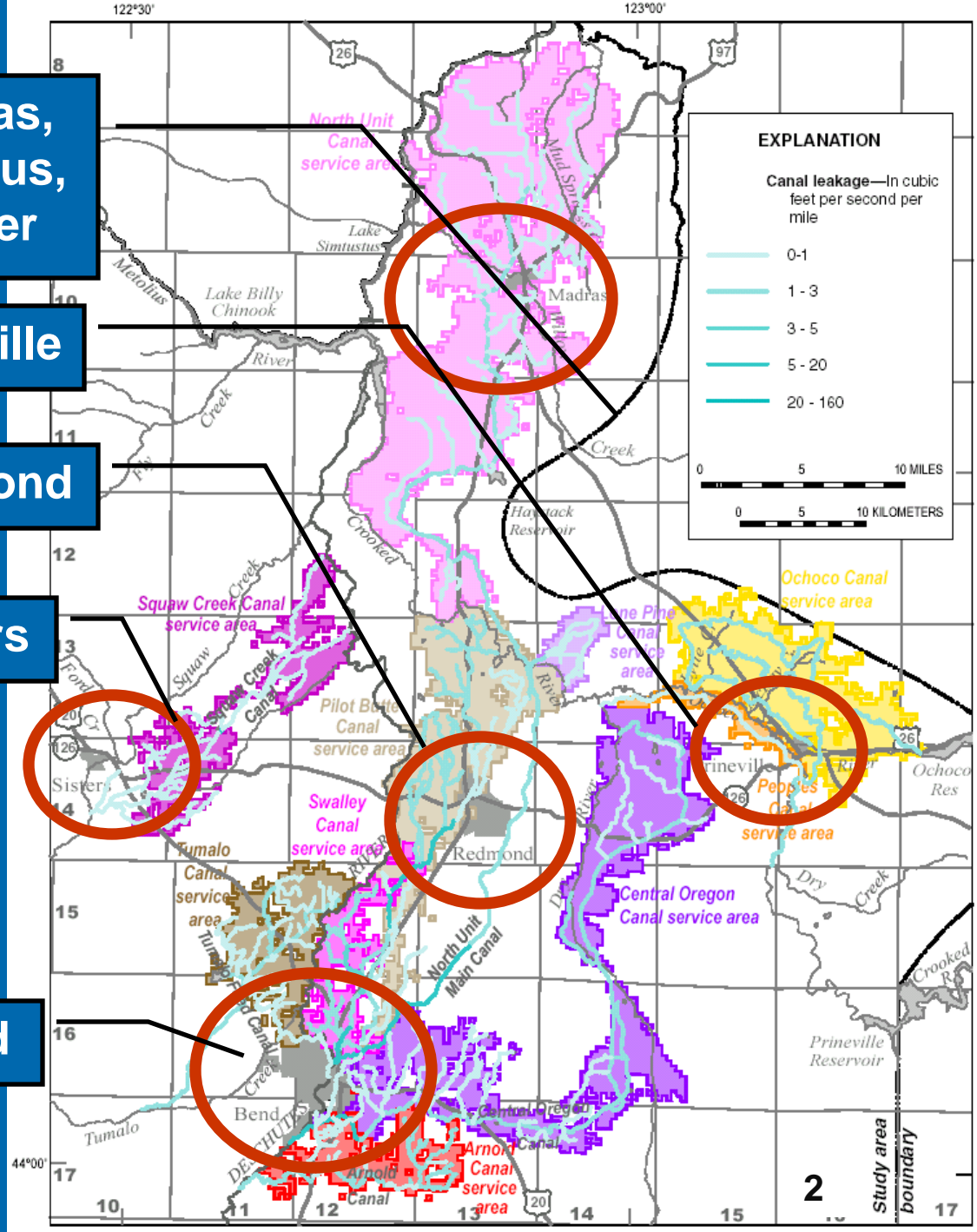
**Madras,
Metolius,
Culver**

Prineville

Redmond

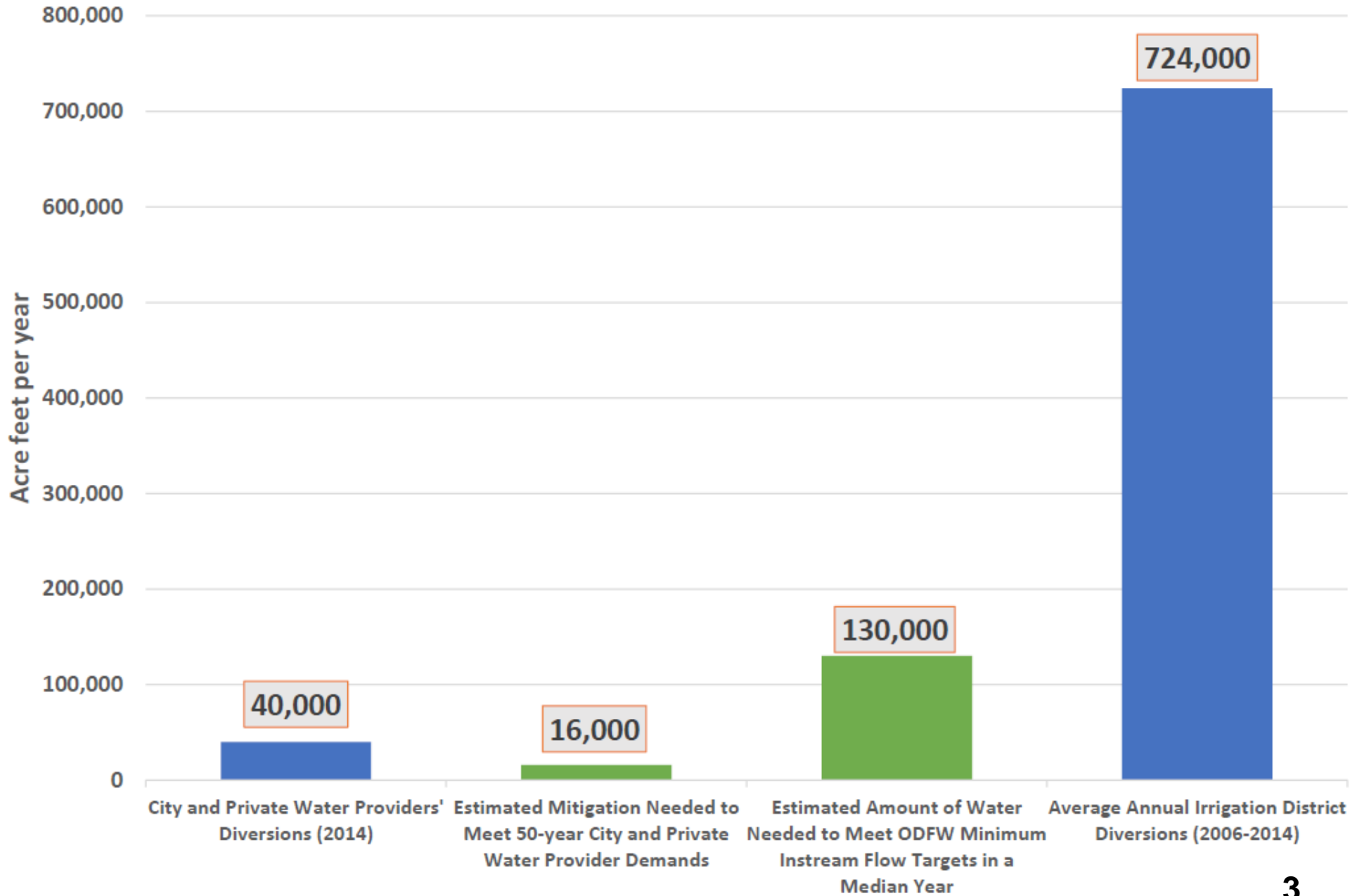
Sisters

Bend



Deschutes Basin Annual Diversion Volumes and Projected Future Demands for Mitigation

1 acre foot = 325,851 gallons



- More detail in next two slides
- Other reports will be forthcoming in Upper Deschutes Basin Study Reports (Due out in Fall 2018)
- <https://www.usbr.gov/pn/studies/deschutes/>



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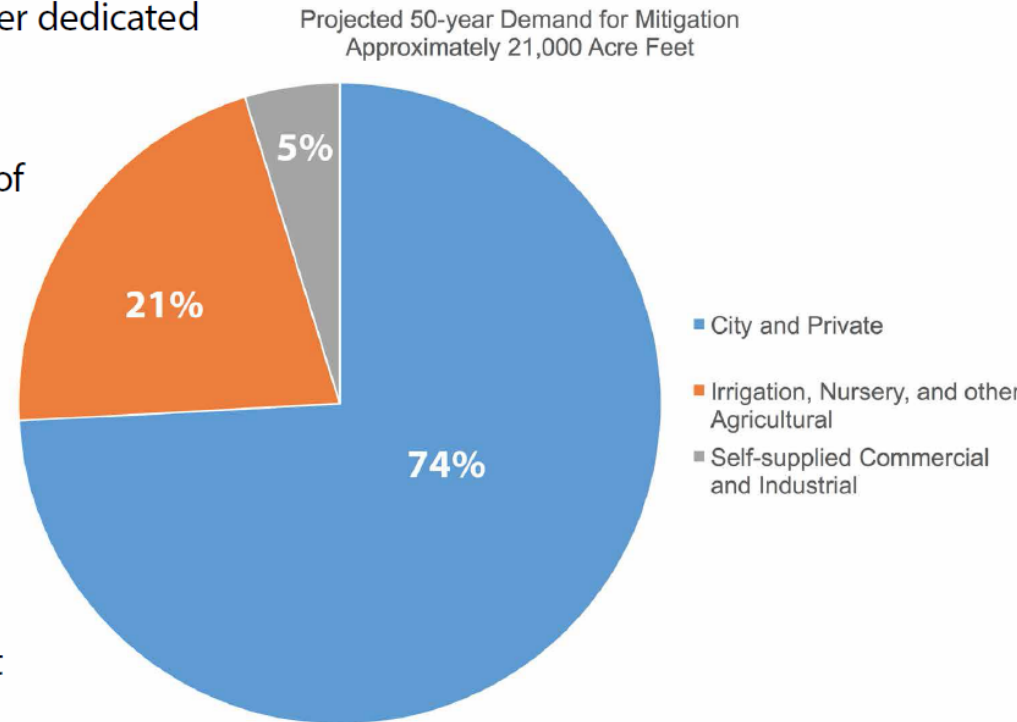
Upper Deschutes Basin Study – Updated Needs & Opportunities

Current and Future City and Private Water Provider Use

- Most city and private water providers rely on groundwater.
- The Study estimated city and private water provider diversions of approx. 40,000 AF annually.
- Meeting ALL the 50-year projected groundwater demands will require approximately 21,000 AF of mitigation (water dedicated instream) annually.
- Meeting 50-year city and private water providers projected demands will require approx. 16,000 AF of mitigation (water dedicated instream) annually.

Meeting Future Groundwater Needs

- Mitigation for future groundwater needs is one of three foundational goals for the Basin Study, along with improving streamflow and improving irrigation water supply security and efficiency.
- The Study will evaluate how well various water supply tools and water management scenarios could establish the requirements to meet groundwater mitigation needs.



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Source – Upper
Deschutes
Basin Study



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Overview

- Deschutes Basin surface waters are fully allocated and generally not available to meet future water supply needs.
- Most groundwater use in the basin requires a water right from Oregon Water Resources Department and must provide mitigation:
 - Mitigation is required because groundwater pumping affects surface water flows.
 - Mitigation is generally provided by dedicating water instream to offset groundwater pumping impacts.
 - Majority of projected mitigation demand is for municipal, commercial and industrial water use provided by public (city) and private water providers.