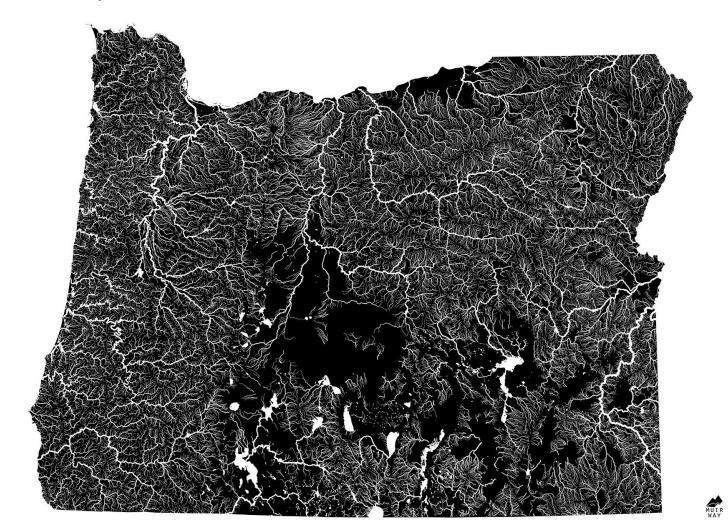
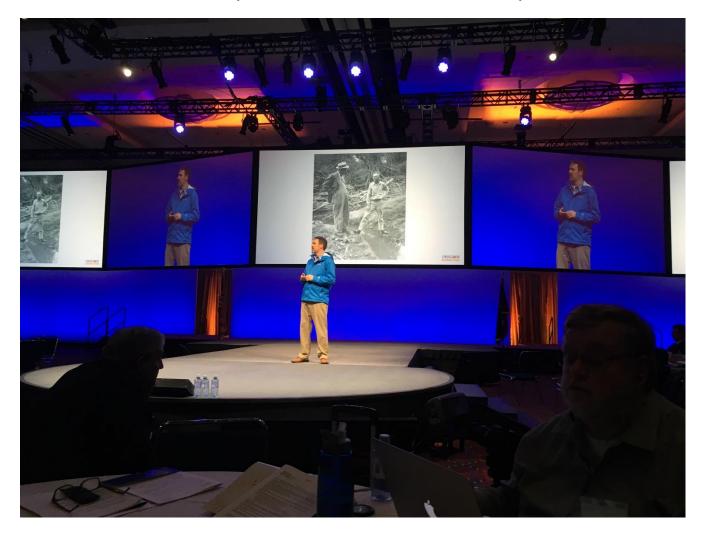
Martin Doyle Professor, Nicholas School of Environment Director for Water Policy, Nicholas Institute for Environmental Policy Solutions Duke University



Oregon Business Council Has Sustained Program of Water Work

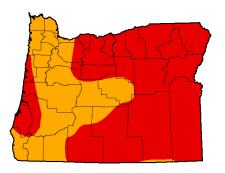
Water is basis for our economy, our communities, natural systems, and our lives



Bobby Cochran, Willamette Partnership, Oregon Business Summit

Oregon has suffered relentless water related crises in recent years

U.S. Drought Monitor
Oregon



September 22, 2015 (Released Thursday, Sep. 24, 2015) Valid 8 a.m. EDT

	Drought Conditions (Percent Area)					
	None	D0-D4	D1-D4	D2-D4		
Current	0.00	100.00	100.00	100.00	67.28	0.00
Last Week 915/2015	0.00	100.00	100.00	100.00	67.28	0.00
3 Months Ago 623/2015	0.00	100.00	98.60	81.72	34.09	0.00
Start of Calendar Year 12/3/02/014	13.61	86.39	80.70	49.29	34.11	0.00
Start of Water Year 9002014	1.66	98.44	76.61	56.26	35.30	0.00
One Year Ago 923/2014	1.69	98.31	76.61	57.30	35.30	0.00
Intensity: D0 Abnormally Dry D3 Extreme Drought						

D1 Moderate Drought
D2 Severe Drought
D2 Severe Drought
The Drought Monitor focuses on broad-scale conditions.
Local conditions may vary. See accompanying text summary
for forecast detainments.

Author: Eric Luebehusen U.S. Department of Agriculture

USDA





http://droughtmonitor.unl.edu/

US Drought Monitor



US Geological Survey



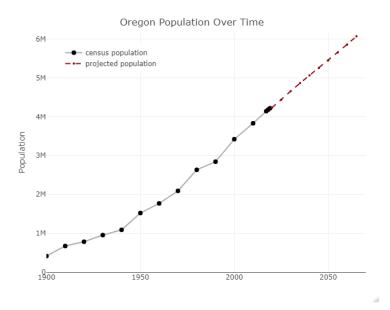
Hermiston Herald

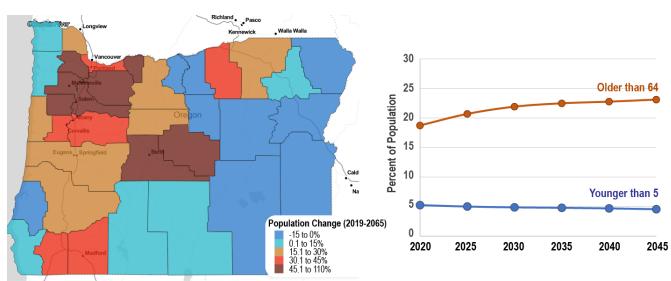


Univ of Denver Law Review

Three Perspectives on Oregon's Long-Term Water

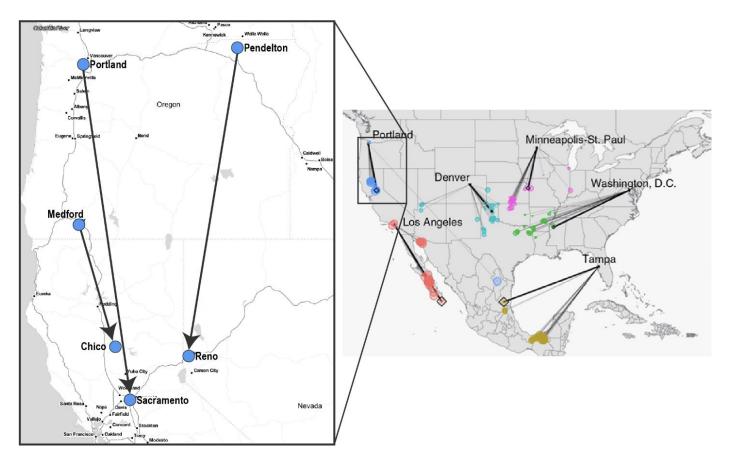
1. Demography – population will increase, but some communities will shrink





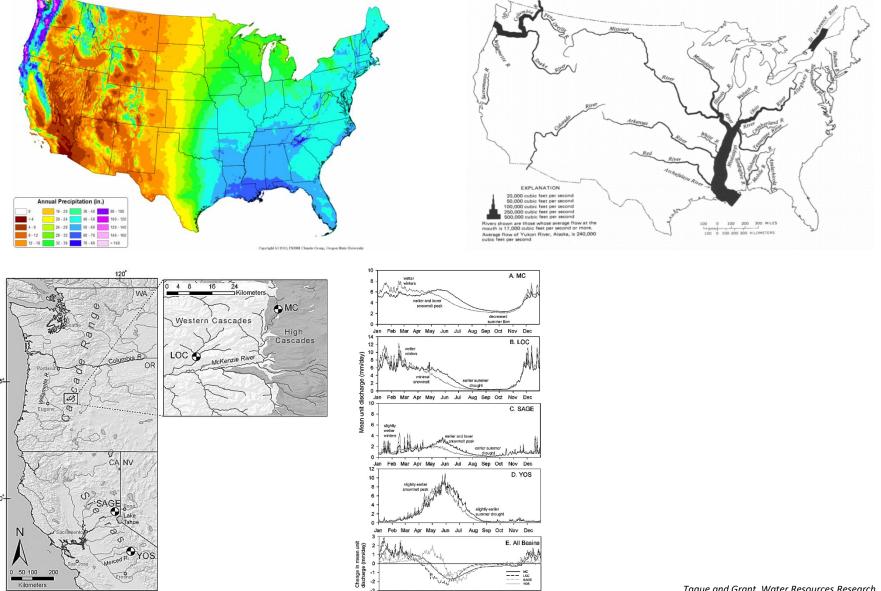
Three Perspectives on Oregon's Long-Term Water

 Climate – Portland in 40 years will feel like Sacramento does today Medford will feel like Chico, CA Pendleton will feel like Reno, NV



Three Perspectives on Oregon's Long-Term Water

3. Hydrology – Oregon has a comparative hydrologic advantage



Ten Trends for the Next Ten Years – in Oregon and the US generally

- 1. Rain not snow
- 2. Growing demand for over-allocated waters
- 3. Aging infrastructure
- 4. Affordability and equity
- 5. Federalism and long-term shrinking budgets
- 6. Groundwater and natural infrastructure
- 7. Smart water and open water data
- 8. Novel compliance approaches
- 9. Impact investing
- 10. Growing cost of capital

Over-arching Conclusions

- 1. Oregon's biggest challenge is water management not scarcity
- 2. Unclear, and doubtful, that Oregon's water management system is up to the impending challenges

Four Pillars for Transforming Oregon's Water Management

- Regional water approaches to increase opportunities for innovation and responsibility that address local/regional challenges
- Greater transparency through increased use of shared, integrated water data
- Careful, intentional reform of water permitting processes
- Inclusion of wider range of voices in water management

