



WRANE

Water Research, Assessment
and Networking Ecosystem

Water and You

Presented by:

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Why is water important?



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Outline

1. Why is water important to society?
2. What are the consequences of too much or too little water?
3. How will water issues shape the future?

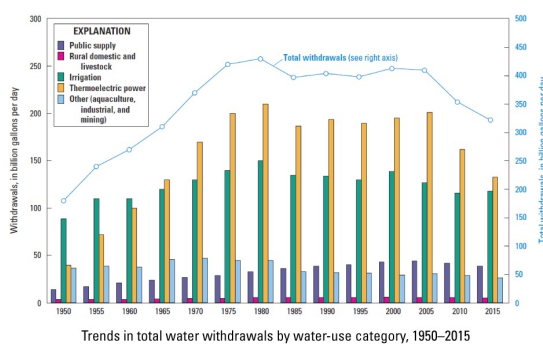


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How do you use water?

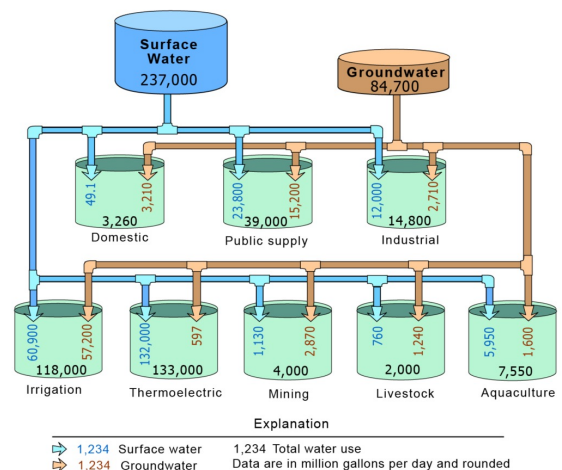
- In 2015, the US used an estimated 322 billion gallons per day (Dieter et al., 2018)



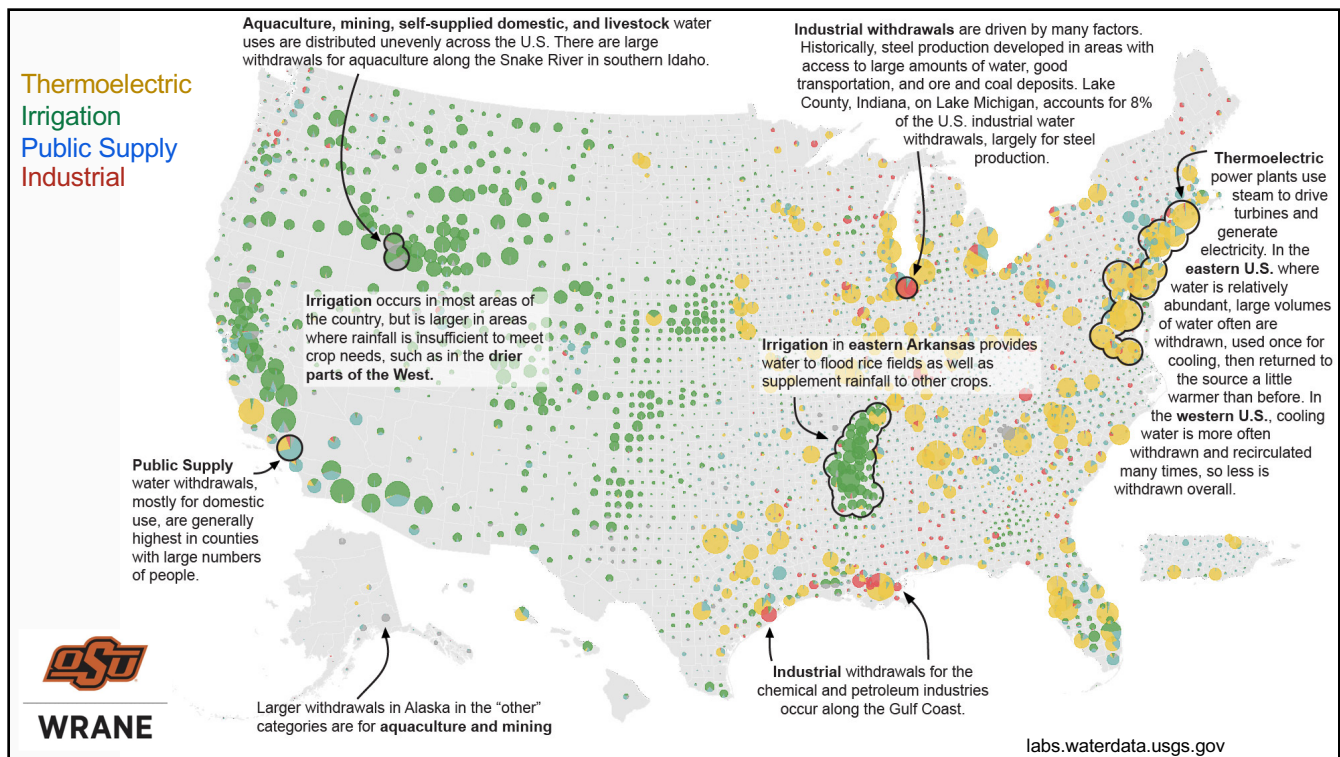
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www.usgs.gov/water-resources

Source and use of water in the United States, 2015



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Too much vs. too little

Water is critical to society, so there are ramifications if there is too little water

- Drought
- Health issues
- Vegetation changes
- Subsidence

There are also problems if there is too much water

- Flooding
- Mass wasting
- Pollution/contamination

The History of Oklahoma's Droughts:

Oklahoma State Water Center



Oklahoma Flood:
Control for Land,
Lives and the
Economy: USDA
NRCS Oklahoma



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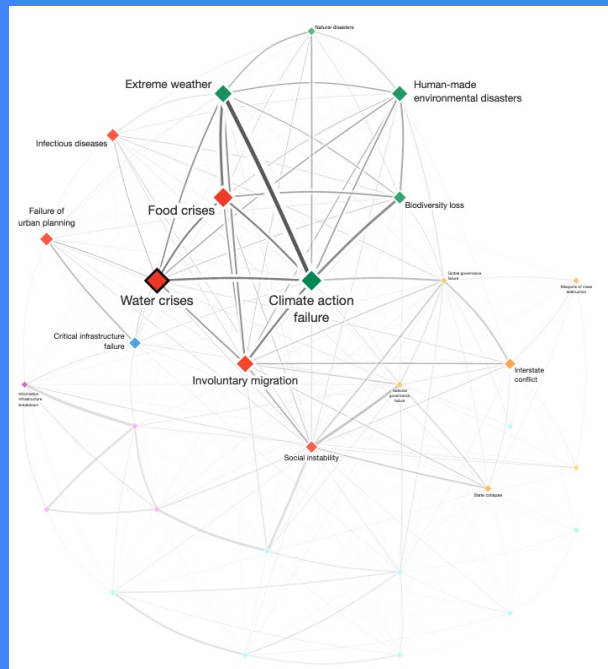
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Water crises are linked to societal, environmental, geopolitical, and economic risks

-World Economic Forum, 2020
Global Risks Report



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reports.weforum.org/global-risks-report-2020

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SUSTAINABLE DEVELOPMENT GOALS



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Water is critical for the future-

Knowledge of the geoscience of water is key to making important decisions.



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Acknowledgements

Contact us:

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NSF grant ICER-2119861
[Cas.okstate.edu/wrane/index.html](https://cas.okstate.edu/wrane/index.html)



Additional Information:

- [Water withdrawals by county and use visualization](#): USGS
- [The Global Risks Interconnections Map 2020](#): World Economic Forum
- [Water Facts](#): United Nations UN-Water
- [The 17 Goals](#): United Nations Sustainable Development



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