



Washington's CAFO Groundwater Monitoring Requirements

Heather Patt Spring 2024 ACWA CAFO Roundtable

Topics

- Permit requirements
- Monitoring implementation
- Challenges
- Looking Ahead
- Lower Yakima Valley Groundwater Management Area





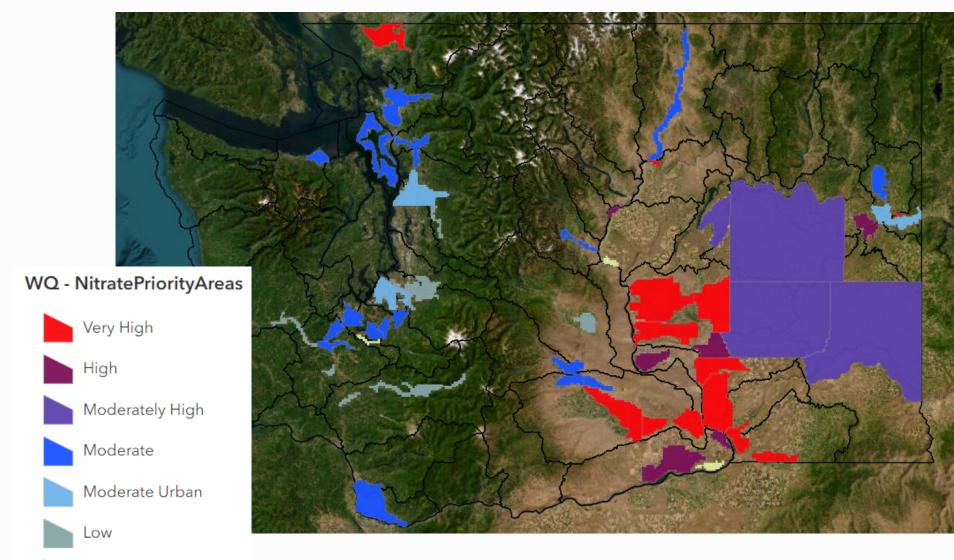
WA Combined & State CAFO Permits

- Ecology regulatory authority for 2 CAFO permits
 - State
 - Combined
- Court of Appeals 2021 Decision
 - S5.D Groundwater Monitoring
 - Nitrate Priority Areas
 - S4.L Soil monitoring assessment
 - S7.C Results of waste storage structure assessment





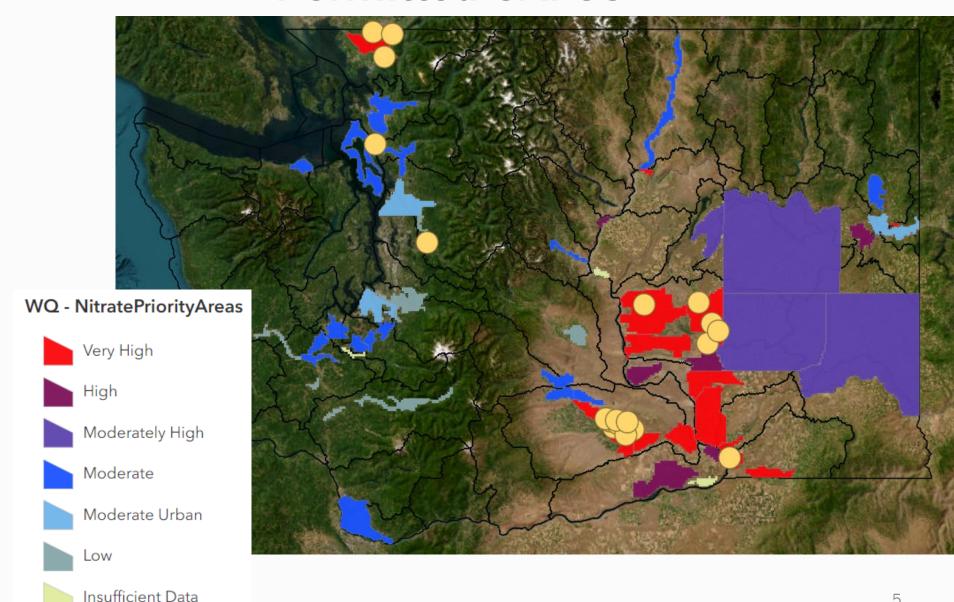
Nitrate Priority Areas



Insufficient Data

Permitted CAFOs









Groundwater Monitoring Plan Development

- 6 months from Permit Issuance
 - 6-month extension
 - Ecology approval
 - Results reported in annual report
- Data may inform corrective actions
- Refine next permit cycle

Challenges

- Professional hydrogeologists
 & well drilling equipment shortage
- Cost 5K-15K per well
- Locations
 - Up-gradient & down-gradient
- Not applicable to all animal operations
- Other agriculture operations not regulated



Looking Ahead

- Refine CAFOs monitoring exemptions in Nitrate Priority Areas
- Consider alternative methods to evaluate possible groundwater contributions
- Manure export applications



Lower Yakima Valley Groundwater Monitoring Area

 Multiagency collaboration effort to provide clean drinking water to people with contaminated wells.
 Lower Yakima Valley Groundwater
 Management Area Safe Drinking
 Water Initiative

 WA Dept of Ecology's efforts include groundwater sampling.
 Eyes Underground: Lower Yakima Valley







Thank You

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Ecology.wa.gov/cafo