

2024 National CAFO Roundtable

Working With Partner Agencies on Nitrate Reduction in Groundwater

Presented By: WSDA Dairy Nutrient Management Team NW Inspector Amanda Hendrix, LG





Agenda

- Dairy Nutrient Management Act/MOU with Ecology
- Nitrate Priority Areas in Washington State
- Yakima Agricultural Nitrate Source Reduction Project/WSDA Non-Permit Related Efforts to Reduce Nitrates in Groundwater

Washington State Dairy Nutrient Management Act

- RCW 90.64
- Dual mission



Memorandum of Understanding WSDA and Ecology

- WSDA is responsible for compliance and inspections on all dairies in Washington State.
- WSDA is responsible for inspecting CAFOs.
- Ecology is responsible for compliance for AFOs, CAFOs and non-dairy livestock operations.





See Washington Nitrate Prioritization report (May 2016) Publication No. 16-10-011 at https://fortress.wa.gov/ecy/pu blications/documents/1610011 .pdf for more information.

Nitrate
Priority
Areas in
Washington
State

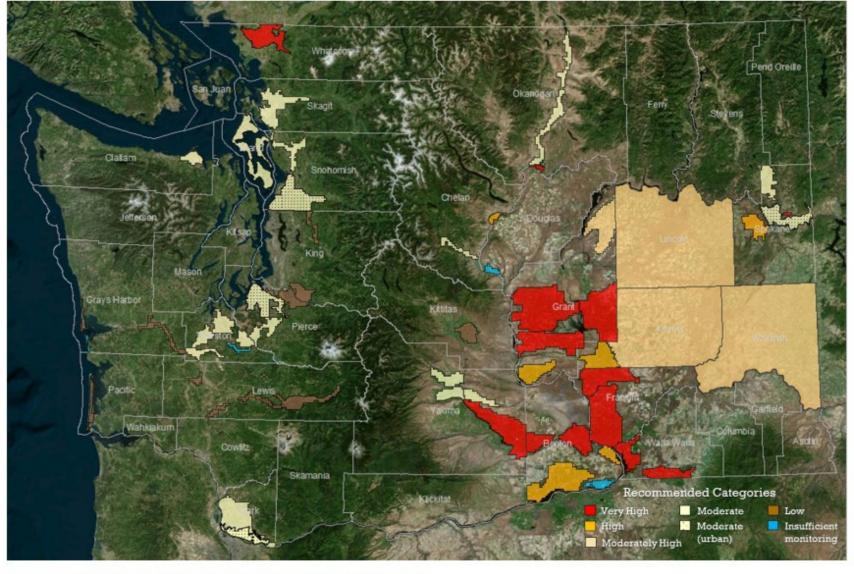


Figure 26: Recommended draft Nitrate Priority Areas and Categories

Washington Nitrate Prioritization Project Page E-81

Number of Dairies in Nitrate Priority Areas and Estimated Total N

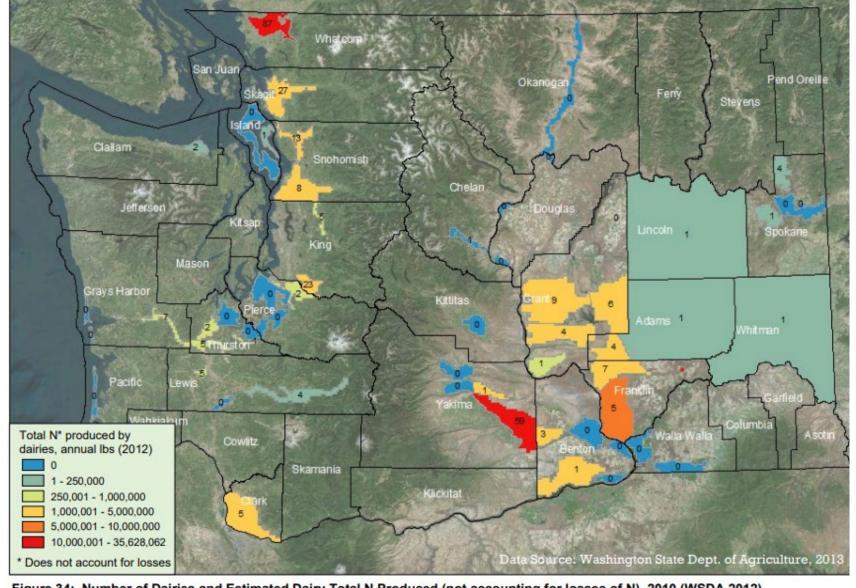
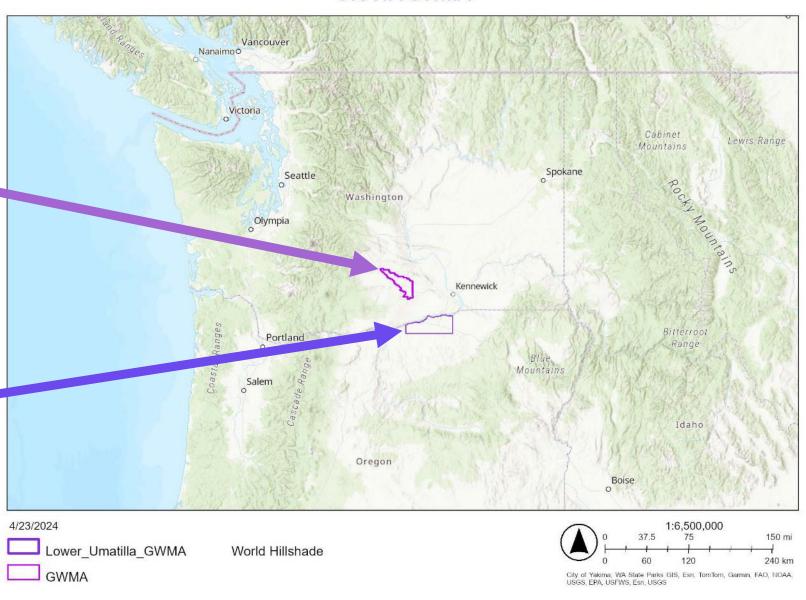


Figure 34: Number of Dairies and Estimated Dairy Total N Produced (not accounting for losses of N), 2010 (WSDA 2012)

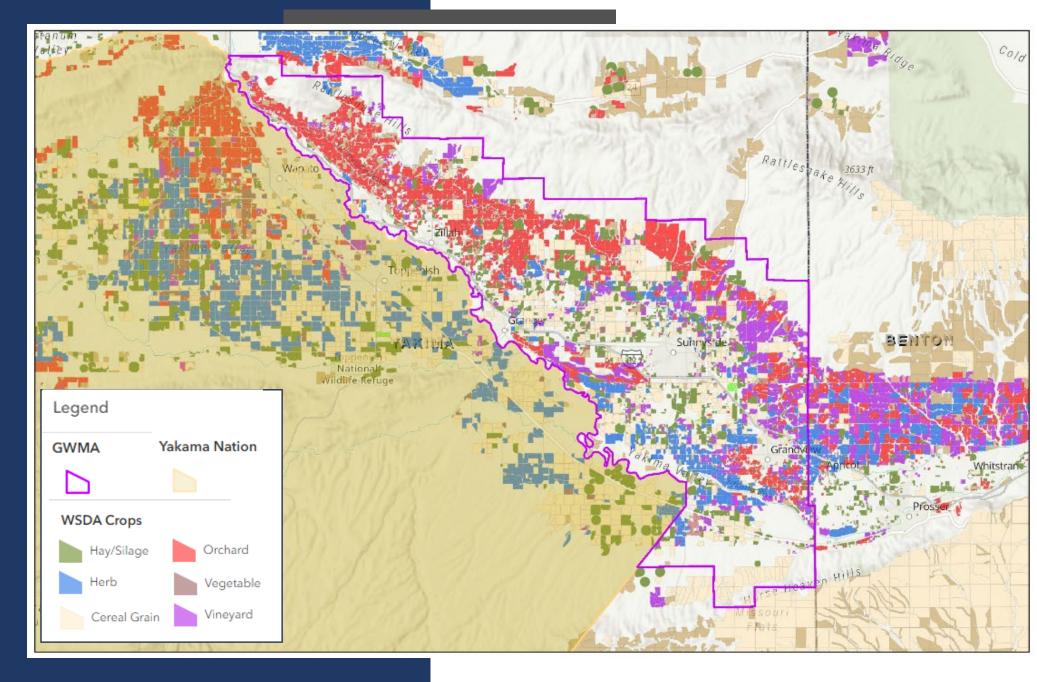
Lower Yakima Valley Groundwater Management Area (LYVGWA)

Lower Umatilla Basin Groundwater Management Area (LUBGWMA)

OR-WA GWMA



Lower Yakima Valley Agriculture



Lower Yakima Valley Nitrate Reduction Project



New continuous funding by the legislature, 2023-2025 Biennium: \$1,490,000



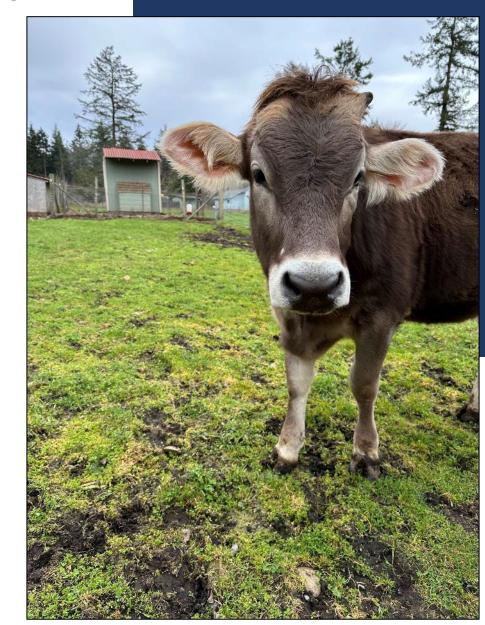
Based on recommendations of the Lower Yakima Valley Groundwater Management Area advisory committee in 2018.



Positions funded in Dairy Nutrient Management Program (DNMP) and Natural Resource Assessment Section (NRAS)



Pass-through funding for South Yakima Conservation District (SYCD)



Project Objectives



Partnerships



Research



Decision Support Tools



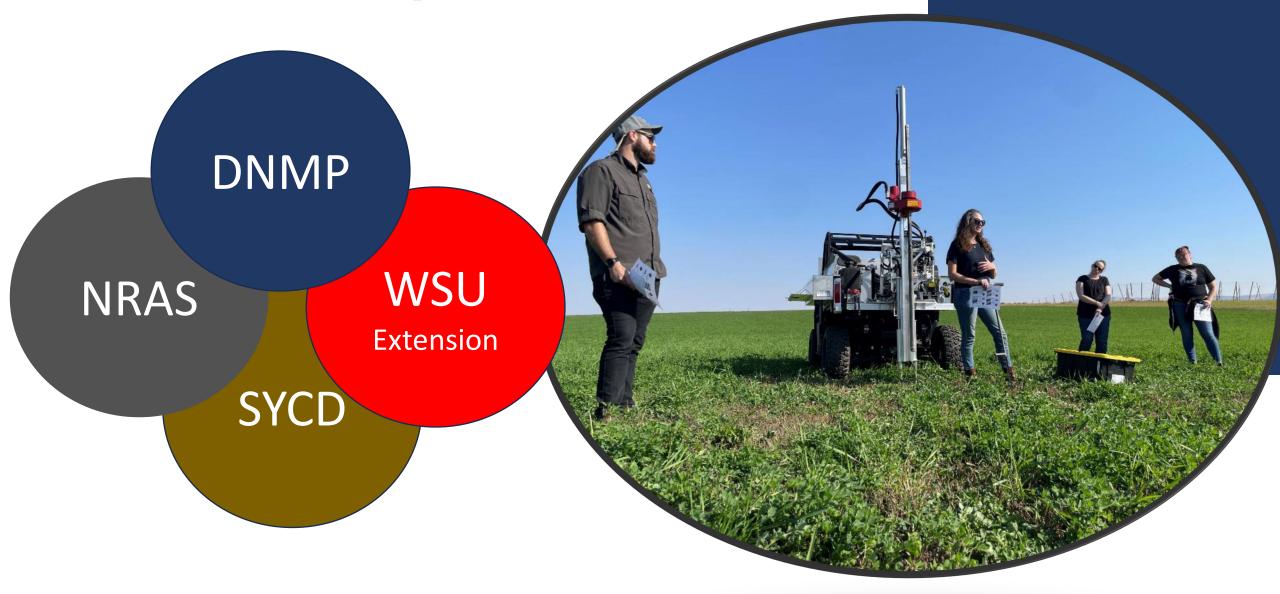
Technical Assistance

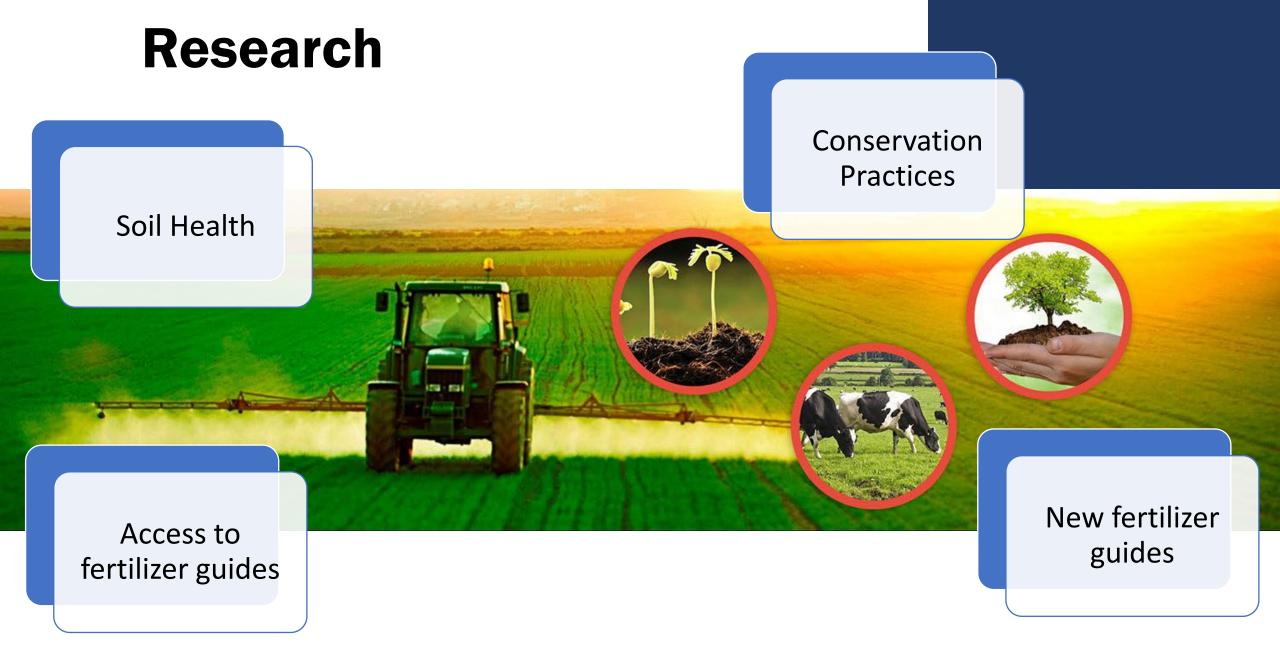


Education



Partnerships





Decision Support Tools

Irrigation water management planning

Nutrient management planning

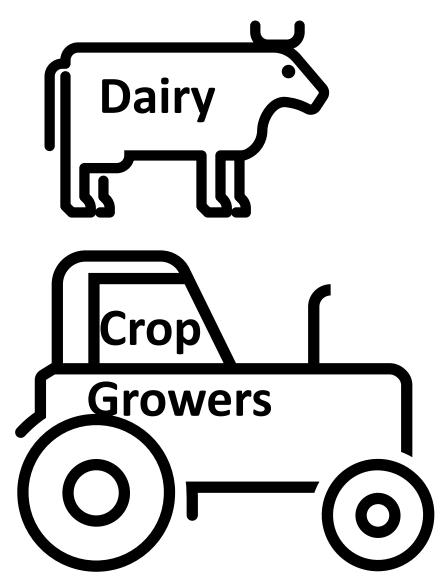
Scheduling and in-season decision support

Deep soil sampling

Soil moisture monitoring



Technical Assistance





Education

Field days

 Nutrient management training events

Online fertilizer guides

Brochures and handouts



Project Timeline

2025

2024

Grower technical assistance

Getting things started







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