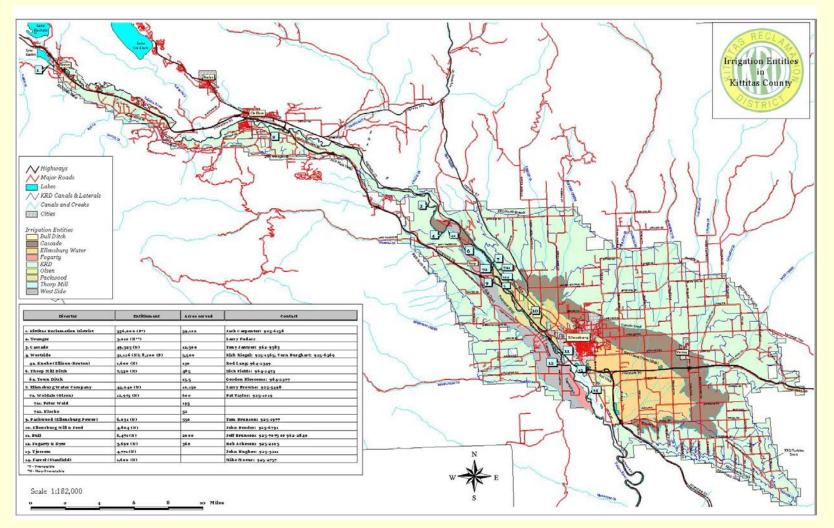
Kittitas County Water Purveyors: Water Quality Monitoring in the Upper Yakima River Basin

Kathleen Satnik

Kittitas County Water Purveyors

- Local irrigators, irrigation districts, serving about 91,000 acres.
 - Actively/proactively working for higher water quality to improve wildlife habitat AND to support and maintain profitable farming and ranching.
- Cooperatively work with other agencies representing local interests and collecting environmental data.

Irrigation Entities in Kittitas Valley



Total Maximum Daily Loads

- Upper Yakima River Basin Suspended Sediment, Turbidity and Organochlorine Pesticide TMDL
 - Published in 2003, first target in 2006, final target in 2011
- Wilson Creek Sub-Basin Bacteria Total Maximum Daily Load (Water Cleanup Plan): Draft Submittal Report
 - Published in March, 2005.
- Upper Yakima River Basin Temperature TMDL
 - Data collection for Technical Assessment has begun

Upper Yakima River Basin Suspended Sediment, Turbidity and Organochlorine Pesticide TMDL

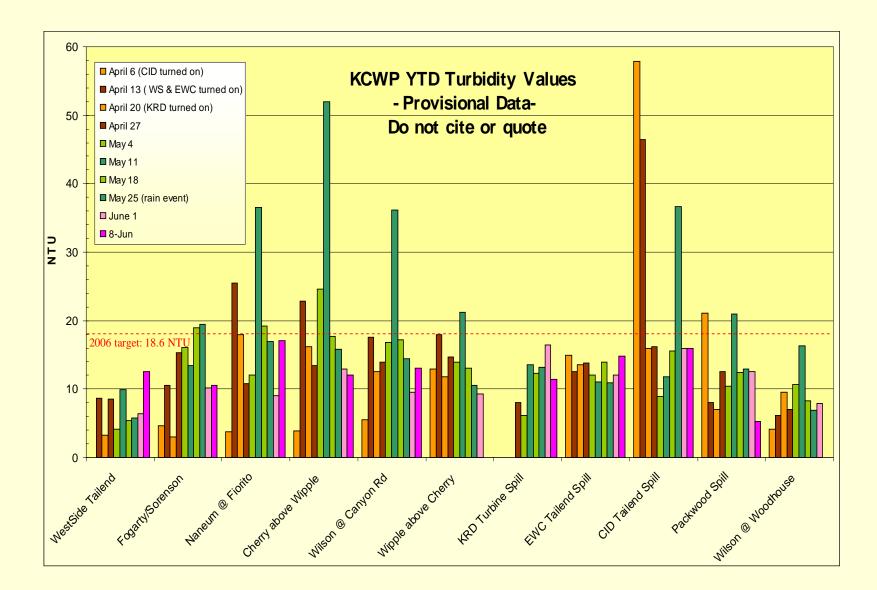
Monitoring began in late 1990s. Progress is plainly evident for TSS and turbidity. **Progress is presumed for DDT** and other organochlorine pesticides. Need to get to approximately 18.6 NTU by 2006, 12.6 NTU by 2011.



Upper Yakima River Basin Suspended Sediment, Turbidity and Organochlorine Pesticide TMDL

KCWP conducts weekly sampling for turbidity, bi-weekly for TSS. Samples analyzed in our own lab. Four turbidity sensors and loggers recording turbidity every fifteen minutes.

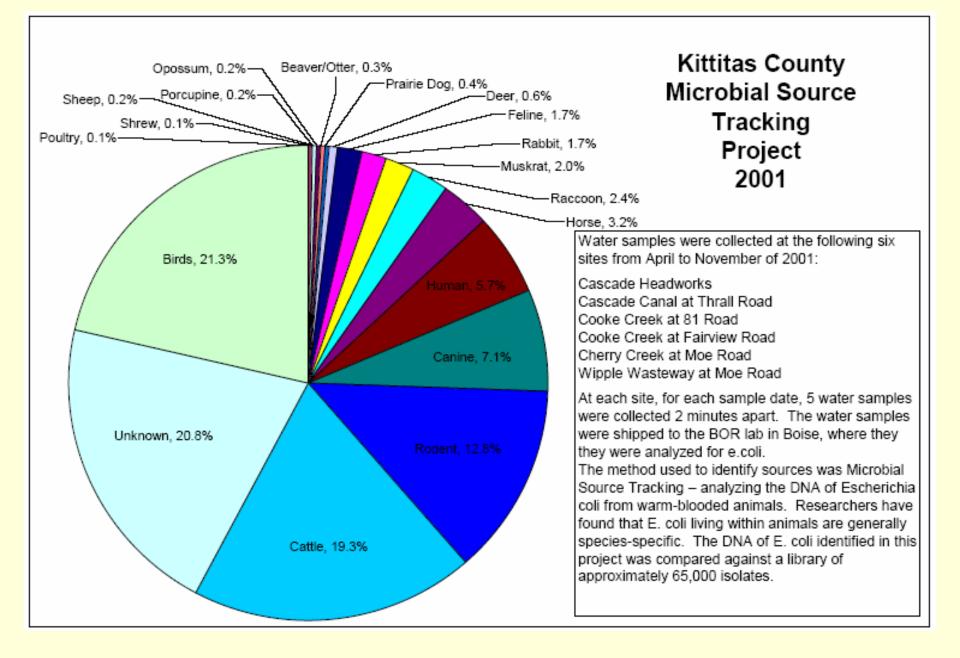




Wilson Creek Sub-Basin Bacteria TMDL

Fecal and E. coli measured as indicators.

- Draft Submittal Document published in March.
- DIP will be published within one year.
- Calls for reductions of up to 86% to lower concentrations to a geomean of 100cfu/100mL and a 90% value of 200 cfu/100mL of water by 2020.



Upper Yakima River Basin Temperature TMDL

- All waterways in the basin are required to meet Class A water quality standards (18°C).
- Technical Assessment (TA) to be based on data gathered as early as 1999.
- Department of Ecology modeling Taneum, Naneum, Umtanum, and possibly Swauk Creeks.

