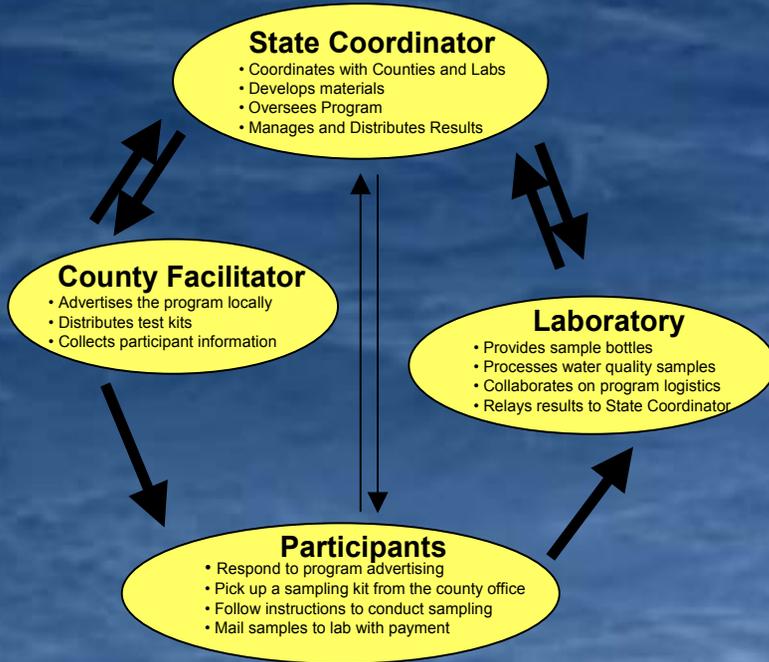


# The WELL EDUCATED Program

Guiding private well owners through testing and interpreting their water quality

W. Adam Sigler, J.W. Bauder, and Teresa Warne  
 Montana State University Extension Water Quality  
 Montana State University Extension Water Quality

## Program Structure

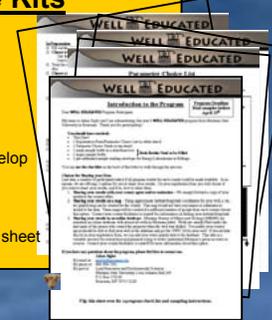


## Materials

### Sample Kits

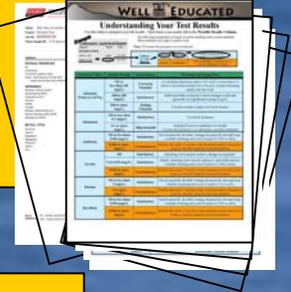


- Sample kits include:**
- Pre-addressed mailing envelop
  - 2 water sampling bottles
  - An introductory letter
  - Sampling instructions
  - A parameter testing choice sheet
  - A registration sheet



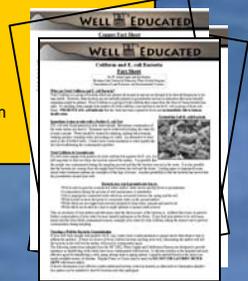
## Results & Interpretation

An interpretive guide is included with the lab results to provide a quick easy reference for comparing individual results to drinking water quality standards.



## Fact Sheets

Fact sheets included with results provide background, health information, possible contamination sources, and treatment information about water quality parameters.



## Impacts and Outcomes

The following are results from 79 mail surveys returned thus far by 2006 program participants.

- More than 97% of participants stated they would participate in the program again.
- More than 60% of participants started a well file with materials from the program (most others already had a well file).
- Of participants with a positive bacteria result, 14% retested, 28% disinfected, and 14% attempted to source the contamination.
- More than 98% of participants indicated a better understanding of the importance of regular well testing due to the program.
- More than 97% of participants indicated a better ability to monitor their drinking water quality due to the program.
- More than 87% of participants indicated a better ability to understand maintenance and upkeep needs of their private well due to the program.

Additional outcomes from the program include a ground water quality database populated with the program test results and associated ground water quality maps made possible by using Google Earth to assign approximate geographic coordinates for participating wells.

## 2006 Water Quality Summary

Parameter	# Participants Who Tested for this Parameter	Samples Exceeding EPA Drinking Water Goals	Samples Not Meeting Goals but Meeting Standards	Samples Not Meeting Drinking Water Standards
Arsenic	73	67%	30%	3%
Bacteria (E. coli)	273	99.6%	goal same as standard	0.8%
Bacteria (total coliforms)	273	80%	goal same as standard	1.4%
Cadmium	61	100%	goal same as standard	0%
Copper	49	98%	goal same as standard	2%
Lead	75	97.3%	2.7%	0%
Nitrate	276	99.3%	goal same as standard	0.7%
Selenium	54	100%	goal same as standard	0%
Fluoride	137	99.3%	goal same as standard	0.7%

Contact: Montana State University Extension Water Quality Program on the web at: <http://waterquality.montana.edu/>  
 W. Adam Sigler - [asigler@montana.edu](mailto:asigler@montana.edu), or Teresa Warne - [teresa.warne@montana.edu](mailto:teresa.warne@montana.edu)