

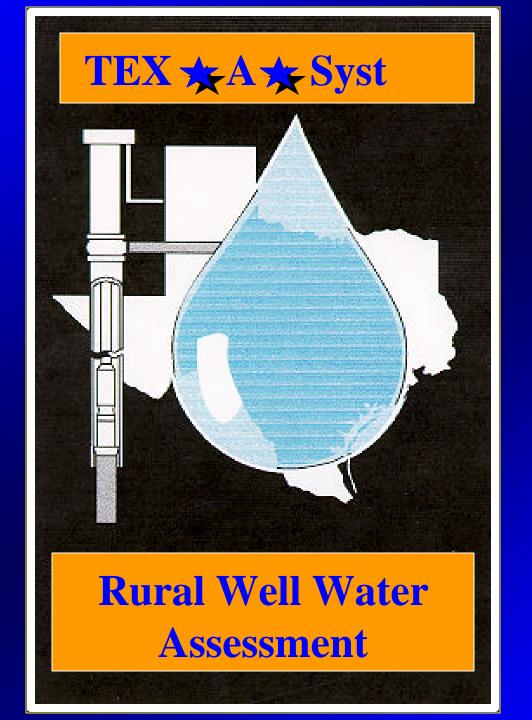
Determining the Presence of Fecal Coliform Bacteria in Private Water Well Samples of Texas

Monty C. Dozier

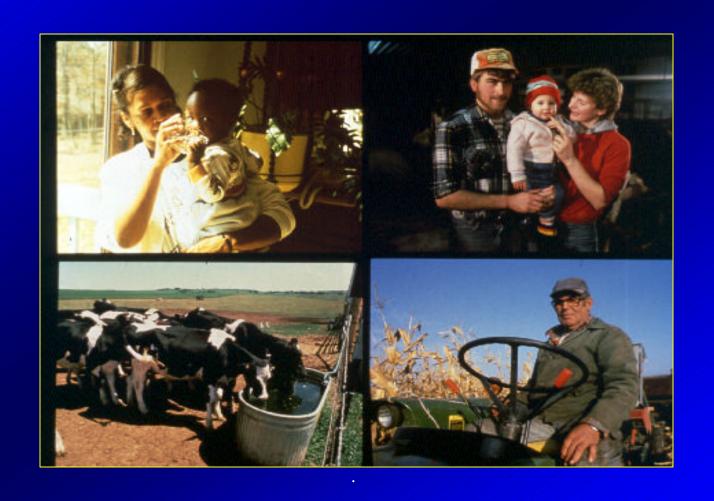
Ext. Specialist – Water Resources

Dennis Hoffman

Exp. Station Research Scientist



Target Audience



Why Check for Fecal Coliform?

- ► MCL 0 colony/100 ml
- Present in intestinal tract and fecal waste
- Indicator bacteria
- Cost Effective
- Similar response to treatment and environment
- Indicates disease risk
 - ◆ Intestinal infections, dysentery,hepatitis, typhoid fever, cholera & others



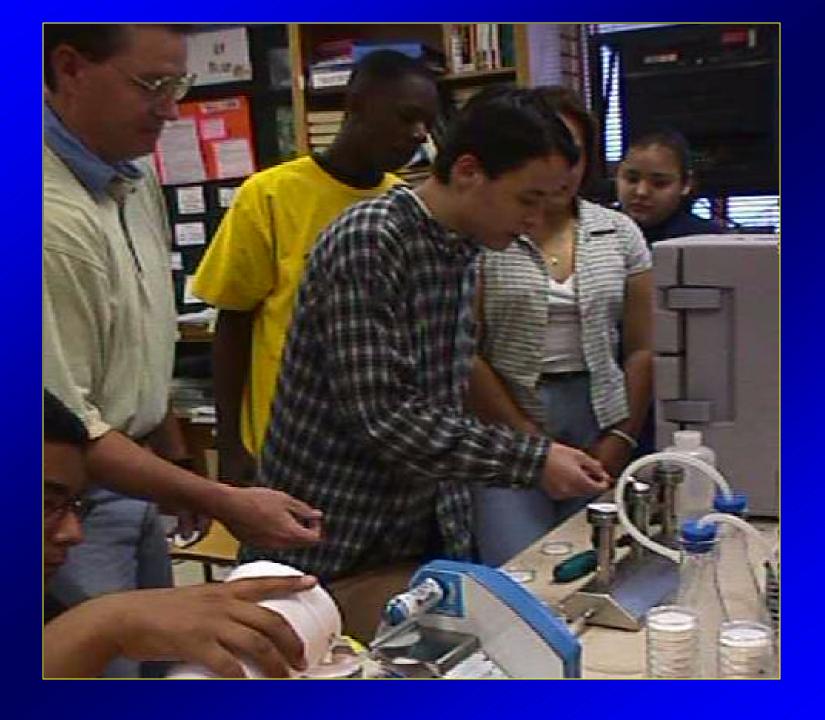
Water Well Screening Program



Samples screened on-site

Water Screened For Fecal Coliform



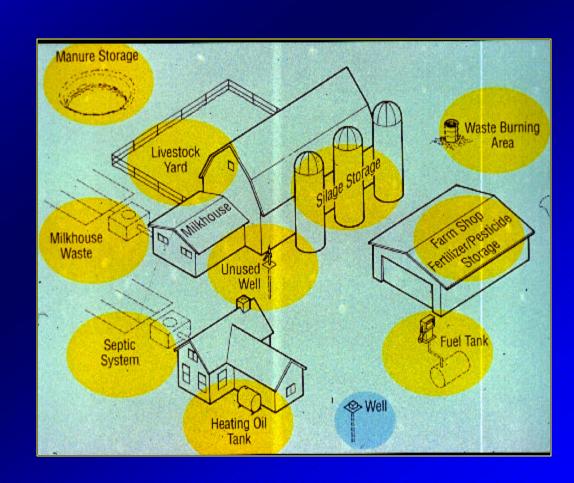


Whoop, There It Is



Sources of Bacteria Contamination

- Septic Tank
- Livestock Pens
- Dog runs
- Critters
- Sewage treatment facilities
- Flood waters



Abandoned wells can be pathways for pollutants abandoned active well well

Treatment For Positives

Contact Health Dept. for test

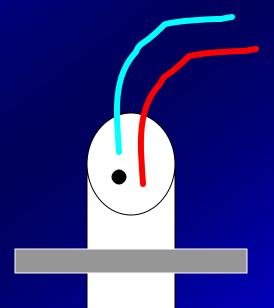
Well Depth Gallons Bleach

< 100 ft $\frac{1}{2}$ to 1 gallon

100 - 200 ft 1 to 1 ½ gallon

200 – 300 ft 2 gallons

> 300 ft 2 ½ gallons



TNRCC Publication – Private Well Disinfection and Water Sampling

State Results

- ▶ Reporting Dates May 1999 to November 2001
- **♦**# Samples − 3,319
- ♦# Fecal Positives 250, 7.5%

High Plains Results

- Northern High Plains
- **♦** # Samples − 1,166
- # Fecal Positives 105
- Percent Fecal Positives-9.0 %

- Southern High Plains
- **♦** # Samples − 531
- ♦ # Fecal Positives 19
- Percent Fecal Positives-3.6 %

Program Benefits

- **♦** Teachable Moment
- **♦** Increased Awareness
- Management Education
- Protection of Public Health
- Partnership
- **♦** TCFF
- Exposure

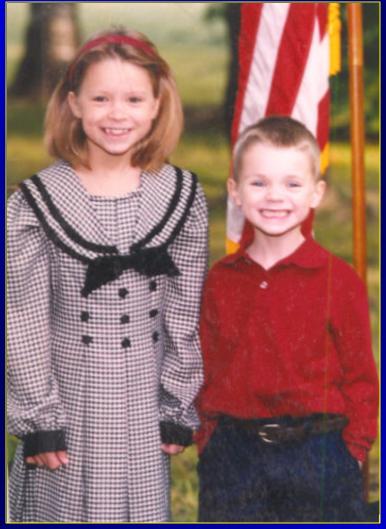


Water Websites

- http://waterhome.tamu.edu
- http://water.tamu.edu



God Bless You and Your Family



God Bless America