

IOWA STATE UNIVERSITY 2009 DRINKING WATER CONSUMER CONFIDENCE REPORT

This document is intended to inform Iowa State University water consumers about their drinking water. Information provided in this publication represents a snapshot of 2008 water quality data. Included are details about where your water comes from, what it contains, and how it compares to the United States Environmental Protection Agency (EPA) and state standards.

SOURCE OF WATER

Iowa State campus drinking water comes from underground wells owned by the City of Ames. The wells are 87 to 150 feet deep. The City of Ames treats the raw well water and then pumps it to Iowa State University's underground piping system.

CONTAMINANTS AND HEALTH EFFECTS

Drinking water, including bottled water, may reasonably be expected to contain small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline (1-800-425-4791).

The sources of drinking water include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

Contaminants that may be present in raw well water include:

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- Pesticides and herbicides, which may come from sources such as agriculture, urban storm water runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are byproducts of industrial processes and petroleum productions, and can also come from gas stations, urban storm water runoff, and septic systems.
- Radioactive contaminants, which can be naturally occurring or the result of oil and gas production and mining activities.

Some people may be more sensitive to contaminants in drinking water than the general population. Immuno-compromised individuals can be particularly at risk from infection. This includes someone who has undergone chemotherapy, has undergone organ transplants, has HIV/AIDS or other immune system disorders, is elderly, or is an infant. These individuals should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection are available from the Safe Drinking Water Hotline (1-800-426-4791).

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration regulations establish limits for contaminants in bottled water, which must provide the same protection for public health.

DEFINITIONS USED IN CONTAMINATE SUMMARY

MCL Maximum contaminant Level – The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

MCLG Maximum contaminant Level goal – The level of a contaminant in drinking water below which there is no known or expected risk to health.

µg/L Micrograms per liter; is one part of contaminant per billion parts of water.

Action Level The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which must be followed.

90th Percentile The 4th highest reading from a group of 30 samples. The selection of the highest reading varies with the sample size.

> Greater than

< Less than

CONTAMINATE SUMMARY

In 2008, 1,392 tests for six contaminants were taken for the Iowa State University underground piping system. Of all of the tests, none were at levels higher than the EPA allows.

Substance	Highest Level Allowed (EPA's MCL)	Highest Level Detected	Range of Detected Values	Year Sampled	No. of Samples	Ideal Goals (EPA's MCLGs)	Potential Source Substance
<i>REGULATED SUBSTANCES</i>							
Total Coliform Bacteria	5% per month	0 % per month	0 % positive coliform bacteria per month	2008	480	0%	Naturally present in the environment
Fecal Coliform Bacteria	5% per month	0 % per month	0 % positive coliform bacteria per month	2008	480	0%	Human & animal fecal wastes
Lead*	90 th percentile at or above 15 µg/L (action level)	7 µg/L 90 th percentile = 4 µg/L	<4 – 7 µg/L	2006	32	0 µg/L	Household plumbing fixtures
Copper*	90 th percentile at or above 1300 µg/L (action level)	137 µg/L 90 th percentile = 44 µg/L	<20 – 137 µg/L	2006	32	1300 µg/L	Household plumbing fixtures
Total Trihalomethanes (TTHM) **	80 µg/L	2 µg/L	2 – 2 µg/L	2006	1	NA	By-product of drinking water disinfection
Total Haloacetic Acids (HAA5) **	60 µg/L	6 µg/L	6 – 6 µg/L	2006	1	0	By-product of drinking water disinfection
<i>OPERATING PARAMETERS</i>							
Chlorine Residual		3,200 µg/L	40 – 3,200 µg/L	2008	846	No published limit	

*Iowa State University is not required to analyze lead & copper every year. The results shown are from the most recent sampling, which was 2006.

** Iowa State University is not required to analyze lead & copper every year. The results shown are from the most recent sampling, which was 2006.

The City of Ames Contaminates Summary is available at the Water and Pollution Control Department section of the City of Ames web site at:

<http://www.cityofames.org/WaterWeb/WaterPlant/WTP-CCR.htm>

CONTAMINANT DETECTION REPORT

None to report

VIOLATIONS REPORT

None to report

QUESTIONS AND INPUT

If you have any question or suggestion on how our customer service can improve, you can contact the Iowa State University Utilities office at 515-294-8795. You can also go to the Iowa State University web site at <http://www.fpm.iastate.edu/> where this document is located. An e-mail link cthompson@iastate.edu is provided to address questions or provide suggestions.

Other sources of drinking water information on the web are available from the following organizations:

- United States Environment Protection Agency at www.epa.gov/safewater/
- City of Ames Water and Pollution Control Department at <http://www.city.ames.ia.us/waterweb/default.htm>
- Iowa Department of Natural Resources at <http://www.iowadnr.com/water/drinking/index.html>