

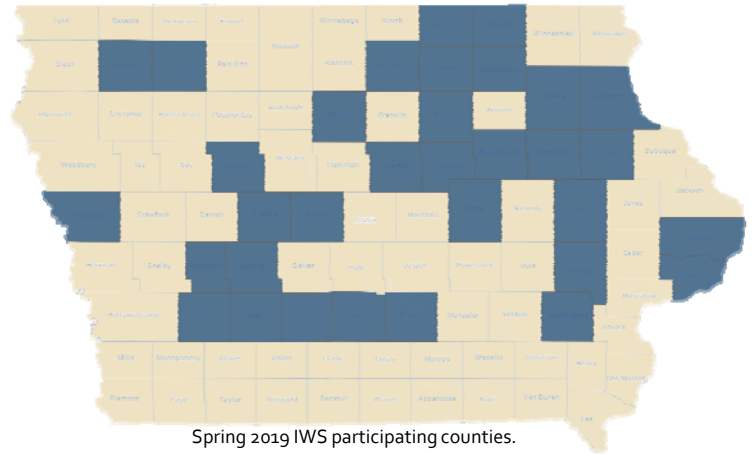


IOWA WELL SURVEY

An ongoing study to characterize private well water quality in Iowa

SPRING 2019 SUMMARY REPORT

Sampling Dates:	April 1 - May 31, 2019
Participating Counties:	34
Total Samples:	836
Total Wells:	676
Raw (or Undefined) Samples:	570
Treated Samples:	266
Samples collected for Raw/Treated Comparison:	161



Primary Study: Nitrate+Nitrite as N, *E. coli*, Total Coliform Bacteria, and Arsenic

	Nitrate as N MCL* 10 mg/L	<i>E. Coli</i> MCL* zero	Total Coliform Bacteria MCL* zero	Total Arsenic MCL* 0.01 mg/L
RAW	Total Quantifiable Detections	298	30	164
	Detections above MCL	53	30	164
TREATED	Total Quantifiable Detections	114	5	48
	Detections above MCL	12	5	48

Secondary Study: Copper, Lead and Manganese

	Copper MCLG ⁺ 1.3 mg/L	Lead MCLG ⁺ zero	Manganese HAL [‡] 0.30 mg/L
RAW	Total Quantifiable Detections	451	223
	Detections above MCL	16	46
TREATED	Total Quantifiable Detections	207	45
	Detections above MCL	8	7

* MCL (Maximum Contaminant Level): The highest level of a contaminant that is allowed in drinking water. MCLs are enforceable standards in public systems.
 + MCLG (Maximum Contaminant Level Goals): The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety and are non-enforceable public health goals
 ‡ HAL (Health Advisory Level): Health Advisory describes nonregulatory concentrations of a contaminant in water that are expected to be without adverse effects on both health and aesthetics.

Questions, comments, or interest in IWS participation?
 1.800.421.4692 or shl-gtc@uiowa.edu



IOWA WELL SURVEY

MONONA COUNTY

2019 SPRING SUMMARY REPORT

Monona County submitted 36 samples from a total of 29 unique wells for analysis. In the summary of results below, quantifiable concentrations of a compound are indicated in yellow, while concentrations that exceed the EPA Maximum Contamination Level or secondary advisory levels for drinking water are indicated in red. Sample numbers grouped by a box indicate the collection of two samples from a single well at the same point in time for comparison of raw and treated water.

Sample #	City	Raw/Treated*	Nitrate+Nitrite as N mg/L	E.coli [MPN]/100mL	Total Coliform [MPN]/100mL	Arsenic mg/L	Copper mg/L	Lead mg/L	Manganese mg/L
790300	ONAWA	Raw	<0.10	<1	<1	0.003	0.23	0.001	<0.02
797940	WHITING	Raw	<0.10	<1	<1	0.008	<0.01	<0.001	0.61
797941	WHITING	Treated (RO)	<0.10	<1	<1	<0.001	0.29	0.004	<0.02
801756	ONAWA	Treated (S)	<0.10	<1	<1	0.003	0.01	0.004	0.18
814176	UTE	Raw	15	<1	<1	<0.001	0.55	0.003	<0.02
794714	MAPLETON	Treated (S)	<0.10	<1	<1	0.002	0.1	<0.001	<0.02
814737	WHITING	Treated (S)	0.36	<1	<1	<0.001	0.29	0.002	<0.02
789077	RODNEY	Raw	4.9	<1	<1	<0.001	0.29	<0.001	<0.02
808744	LITTLE SIOUX	Raw	<0.10	<1	<1	<0.001	0.02	0.001	<0.02
801112	MAPLETON	Raw	8.8	<1	45.3	<0.001	0.54	0.002	<0.02
786549	ONAWA	Raw	<0.10	<1	<1	0.01	0.4	0.006	0.02
787197	HORNICK	Raw	<0.10	<1	<1	0.011	0.13	0.007	0.32
787194	HORNICK	Treated (RO)	<0.10	<1	<1	0.003	0.01	<0.001	<0.02
804809	SOLDIER	Raw	0.54	<1	>200.5	0.002	0.16	<0.001	1.5
804808	SOLDIER	Treated (RO)	0.14	<1	<1	<0.001	0.04	<0.001	0.08
808742	MAPLETON	Raw	0.37	<1	34.4	<0.001	0.8	0.014	0.09
801702	HORNICK	Raw	10	<1	3.1	<0.001	0.53	<0.001	<0.02
796282	ONAWA	Treated (S)	<0.10	<1	<1	0.005	<0.01	<0.001	<0.02
787195	MAPLETON	Raw	7.3	2	7.5	<0.001	0.34	0.035	<0.02
787193	MAPLETON	Treated (RO)	0.37	<1	<1	<0.001	0.06	0.001	<0.02
814736	ONAWA	Treated (SO)	<0.10	<1	<1	0.01	0.01	<0.001	0.03

