

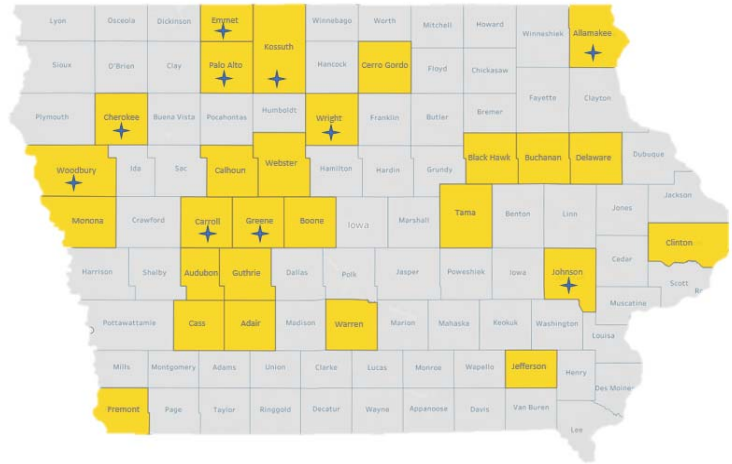


# IOWA WELL SURVEY

An ongoing study to characterize private well water quality in Iowa

FALL 2019 SUMMARY REPORT

Sampling Dates:	Oct 1 to Nov 27, 2019
Participating Counties:	27
Total Samples:	473
Total Wells:	418
Samples collected for Raw/Treated Comparison:	55



*Pictured Right: Fall 2019 IWS participating counties in yellow. Participation in a secondary study for radium in private wells is represented by a star.*

	Raw Water (or Unknown Source)		Treated <sup>‡</sup> Water	
	Total Quantifiable Concentrations	Concentrations Above MCL	Total Quantifiable Concentrations	Concentrations Above MCL
Nitrate as N MCL* 10 mg/L	151	33	60	11
Total Coliform Bacteria MCL zero	152	152	43	43
<i>E. coli</i> Bacteria MCL zero	36	36	7	7
Total Arsenic MCL 0.01 mg/L	156	39	49	13
Manganese HAL <sup>†</sup> 0.30 mg/L	165	42	22	2
Radium	A secondary study was conducted for the presence of radium in private wells in collaboration with researchers at the University of Iowa Center for the Health Effects of Environmental Contamination. Up to 10 samples were collected in 10 targeted counties. Analysis is underway by the researching unit and results are pending.			

\* MCL (Maximum Contaminant Level): The highest level of a contaminant that is allowed in drinking water. MCLs are enforceable standards in public systems.

† 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.

‡ In-home treatment systems include water softeners, reverse osmosis, filtration, distillation, disinfection, ultraviolet, or a combination of systems.

Questions, comments, or interest in IWS participation?

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# IOWA WELL SURVEY

MONONA COUNTY

2019 FALL SUMMARY REPORT

Monona County submitted 40 samples from a total of 27 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	Treated*	Nitrate+Nitrite as N mg/L	E.coli [MPN]/100mL	Total Coliform [MPN]/100mL	Arsenic mg/L	Manganese mg/L
874314	MAPLETON	No	18	<1	<1	<0.001	<0.02
874315	MAPLETON	Yes (S)	18	<1	<1	<0.001	<0.02
880013	WHITING	No	<0.10	<1	<1	0.014	<0.02
880009	WHITING	Yes (S, RO)	<0.10	<1	<1	<0.001	<0.02
880007	TURIN	Yes (S)	4.1	<1	<1	0.001	<0.02
889816	WHITING	Yes (S)	<0.10	<1	<1	0.012	<0.02
889814	WHITING	Yes (S)	<0.10	<1	<1	0.011	<0.02
880010	SLOAN	Yes (S)	0.51	<1	1	<0.001	0.5
874850	SLOAN	No	4.2	<1	<1	0.002	<0.02
880059	WHITING	Yes (S)	<0.10	<1	<1	0.012	<0.02
880006	SLOAN	No	<0.10	<1	<1	0.004	0.24
879374	CASTANA	No	1.9	<1	<1	0.001	<0.02
879373	CASTANA	Yes (S, RO)	0.2	<1	<1	<0.001	<0.02
886056	WHITING	No	<0.10	<1	65.9	0.009	0.76
883013	WHITING	Yes (S)	<0.10	<1	<1	0.011	0.27
887381	ONAWA	No	<0.10	<1	<1	0.003	0.66
887380	ONAWA	Yes (S, F)	<0.10	<1	6.4	0.003	0.66
874851	WHITING	No	<0.10	<1	<1	<0.001	0.46
874852	WHITING	Yes (S, RO)	<0.10	<1	<1	<0.001	<0.02



**State Hygienic  
Laboratory**

Sample #	City	Treated*	Nitrate+Nitrite as N mg/L	E.coli [MPN]/100mL	Total Coliform [MPN]/100mL	Arsenic mg/L	Manganese mg/L
879371	ONAWA	No	<0.10	<1	<1	0.01	0.42
879301	ONAWA	Yes (F)	<0.10	<1	<1	0.008	<0.02
889817	ONAWA	No	<0.10	<1	<1	0.005	<0.02
889818	ONAWA	Yes (S, RO)	<0.10	<1	200.5	0.002	<0.02
881533	MOORHEAD	No	<0.10	<1	<1	0.004	0.03
886057	ONAWA	No	<0.10	<1	<1	0.006	0.36
886058	ONAWA	Yes (S, D)	<0.10	<1	<1	<0.001	<0.02
879370	BLENCOE	No	1.8	<1	<1	0.002	0.4
879300	BLENCOE	Yes (S, F)	1.8	<1	<1	0.002	<0.02
874310	CASTANA	No	33	<1	<1	0.001	<0.02
876994	MAPLETON	No	51	<1	<1	0.002	<0.02
877000	MAPLETON	Yes (S, RO)	11	<1	<1	<0.001	<0.02
876995	MAPLETON	No	<0.10	<1	<1	<0.001	0.09
876993	MAPLETON	Yes (S, RO)	<0.10	<1	<1	<0.001	<0.02
881531	SOLDIER	No	<0.10	<1	>200.5	<0.001	<0.02
881532	SOLDIER	Yes (S, RO)	<0.10	<1	<1	<0.001	<0.02
881530	SOLDIER	No	<0.10	<1	<1	<0.001	<0.02
880008	MAPLETON	Yes (S)	<0.10	<1	<1	<0.001	<0.02
880011	MAPLETON	No	<0.10	<1	<1	<0.001	0.15
892914	DUNLAP	No	<0.10	<1	<1	0.002	0.32
889178	ONAWA	Yes (S)	<0.10	<1	<1	0.009	<0.02

\* S - Softener RO - Reverse Osmosis F - Filtration D - Distillation UV - Ultraviolet O - Other U - Unknown