



RICK SNYDER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
UPPER PENINSULA DISTRICT OFFICE



C. HEIDI GREYER
DIRECTOR

Recd 3-12-18

TO: Water & Wastewater Rate Survey Respondents

FROM: Chuck Thomas, P.G., District Supervisor
Drinking Water and Municipal Assistance Division
Steve Casey, P.E., District Supervisor
Water Resource Division

Chuck Thomas

DATE: March 7, 2018

SUBJECT: Survey Results

Steve Casey

The Michigan Department of Environmental Quality (DEQ) appreciates the response to our recent survey request for customer charges for water and wastewater utility service in Upper Peninsula communities. The rate survey is performed once every 5 years and provides valuable information to both the DEQ and local officials. The results of the 2017 rate survey are enclosed. Since not all communities have water and wastewater services, the rate results are provided in the multiple below-listed formats.

1. Communities offering both water & wastewater sorted alphabetically
2. Communities offering both water & wastewater sorted by total rate
3. All communities with water service sorted by rate
4. All communities with wastewater service sorted by rate

Included in the rate survey results are comparisons to rates of 5 years ago and a comparison to how much of the community median household income (MHI), as per the 2010 census data, is used for water and wastewater service.

If an electronic version of the rate survey results, which is in an Excel Workbook format, is desired, please contact Tom Asmus at asmust@michigan.gov or Tom Flaminio at flaminio@michigan.gov with your email address. Again, thank you for your participation in the 2017 rate survey.

CT;SC:KB
Enclosures

SYSTEM	WATER - 2017			WASTEWATER - 2017			2017 TOTAL WATER & SEWER	MHI 2010 CENSU S	% MHI WATER	%MHI SEWER	% MHI TOTAL	2013 TOTAL WATER & SEWER	% Rate Increase in 5 years
	COST/ 1,000 GAL	MONTHLY CHARGE	5,000 GAL TOTAL	COST/ 1,000 GAL	MONTHLY CHARGE	5,000 GAL TOTAL							
COMMUNITIES WITH BOTH WATER & WASTEWATER													
Houghton County Airport	\$20.39	\$40.80	\$101.97	\$28.56	X	\$142.80	\$244.77	Z				\$148.95	64.3%
Manistique - Twp Customers	\$14.67	\$45.70	\$119.05	\$15.75	\$30.08	\$108.83	\$227.88	54,091	2.64%	2.41%	5.06%	\$172.60	32.0%
Sault Ste Marie - Twp Cust	\$18.02	\$2.00	\$92.10	\$16.04	\$3.20	\$83.40	\$175.50	62,396	1.77%	1.60%	3.38%	\$147.92	18.6%
Manistique	\$9.78	\$30.47	\$79.37	\$10.50	\$25.06	\$77.56	\$156.93	29,375	3.24%	3.17%	6.41%	\$118.36	32.6%
St Ignace - MoranTwp Cust	\$8.06	\$34.38	\$74.68	\$7.69	\$34.38	\$72.83	\$147.51	56,375	1.59%	1.55%	3.14%	\$132.85	11.0%
Norway - Twp Customers	\$6.25	\$31.25	\$62.50	\$9.25	\$31.25	\$77.50	\$140.00	49,896	1.50%	1.86%	3.37%	\$88.75	57.7%
Marquette Twp	\$8.66	\$21.50	\$64.80	\$11.83	\$15.70	\$74.85	\$139.65	58,750	1.32%	1.53%	2.85%	\$117.00	19.4%
Carp Lake Twp (4)	\$15.00	\$22.00	\$97.00	\$8.50	\$41.00	\$41.00	\$138.00	30,781	2.01%	3.26%	5.27%	\$127.00	8.7%
Munising	\$6.83	\$17.98	\$51.43	\$14.66	\$10.39	\$83.69	\$135.12	34,650	1.78%	2.90%	4.68%	\$97.82	38.1%
Ironwood	\$7.37	\$21.06	\$57.89	\$9.02	\$30.46	\$75.56	\$133.45	29,693	2.34%	3.05%	5.39%	\$105.62	26.3%
Ironwood Twp (5)	\$8.25	\$38.35	\$79.60	\$7.30	\$22.15	\$58.65	\$138.25	42,892	2.23%	1.64%	3.87%	\$136.87	1.0%
Ishpeming	\$15.34	\$38.35	\$76.70	\$12.16	\$30.40	\$60.80	\$137.50	39,065	2.36%	1.87%	4.22%	\$85.75	60.3%
L'Anse	\$8.00	\$39.50	\$59.50	\$6.25	\$36.50	\$67.75	\$127.25	40,603	1.76%	2.00%	3.76%	\$104.20	22.1%
Norway - City	\$6.25	\$25.00	\$56.25	\$9.25	\$25.00	\$71.25	\$127.50	36,006	1.87%	2.37%	4.25%	\$81.25	56.9%
Bessemer	\$7.30	\$21.15	\$57.65	\$9.50	\$22.50	\$70.00	\$127.65	28,412	2.43%	2.96%	5.39%	\$78.65	62.3%
Portage Twp - Dakota Heights	\$6.00	\$16.00	\$46.00	\$10.00	\$30.50	\$80.50	\$126.50	40,547	1.36%	2.38%	3.74%	\$114.00	11.0%
Negaunee	\$10.17	\$18.11	\$58.79	\$7.82	\$35.69	\$66.97	\$125.76	43,915	1.61%	1.83%	3.44%	\$106.88	17.7%
Ontonagon	\$10.00	\$22.00	\$72.00	\$6.00	\$21.00	\$51.00	\$123.00	32,950	2.62%	1.86%	4.48%	\$123.00	0.0%
Wakefield Twp (5)	\$7.25	\$54.00	\$90.25	X	\$31.50	\$31.50	\$121.75	28,750	3.77%	1.31%	5.08%	\$121.75	0.0%
Menominee - Twp Customers	\$5.92	\$26.52	\$56.12	\$6.64	\$30.82	\$64.02	\$120.14	52,029	1.29%	1.48%	2.77%	\$81.25	47.9%
St IgnaceTwp Customers	\$5.55	\$16.00	\$43.75	\$7.41	\$29.96	\$67.01	\$110.76	31,759	1.65%	2.53%	4.19%	\$99.03	11.8%
Carp Lake Twp - White Pine (4)	\$10.00	\$22.00	\$72.00	\$8.50	\$41.00	\$41.00	\$113.00	30,781	2.92%	1.36%	4.29%	\$102.00	10.8%
Newberry	X	\$75.00	\$75.00	X	\$35.00	\$35.00	\$110.00	36,993	2.43%	1.14%	3.57%	\$64.97	69.3%
Baraga	\$7.60	\$36.00	\$43.60	\$6.76	\$28.35	\$62.15	\$105.75	28,424	1.84%	2.62%	4.46%	\$87.80	20.4%
Baraga Township	\$7.60	\$38.50	\$46.10	\$6.76	\$28.35	\$62.15	\$108.25	39,303	1.41%	1.90%	3.31%	\$90.30	19.9%
Calumet Twp (Village) (1), (3)	\$8.81	\$16.83	\$58.05	\$6.65	\$15.00	\$48.25	\$106.30	18,750	0.00%	0.00%	0.00%	\$87.69	21.2%
Laurium (1), (3)	\$8.81	\$16.83	\$58.05	\$6.65	\$15.00	\$48.25	\$106.30	33,083	2.11%	1.75%	3.86%	\$87.69	21.2%
Forsyth Twp	\$10.00	\$25.00	\$55.00	\$10.00	\$20.00	\$50.00	\$105.00	47,639	1.39%	1.26%	2.64%	\$70.95	48.0%
Portage Twp	\$4.00	\$20.75	\$38.75	\$7.50	\$32.50	\$66.25	\$105.00	40,547	1.15%	1.96%	3.11%	\$98.75	6.3%
Hubbell (1), (2)	\$8.81	\$16.83	\$58.05	\$8.12	\$6.00	\$46.60	\$104.65	35,542	1.96%	1.57%	3.53%	\$81.64	28.2%
Adams Twp - Baltic	\$6.00	\$25.00	\$43.00	\$5.25	\$53.00	\$60.88	\$103.88	33,519	1.54%	2.18%	3.72%	\$91.38	13.7%
Sault Ste Marie - City Customers	\$9.01	\$2.00	\$47.07	\$10.27	\$3.20	\$54.55	\$101.62	35,323	1.60%	1.85%	3.45%	\$86.28	17.8%
Hancock	\$7.85	\$7.62	\$46.87	\$9.85	\$5.00	\$54.25	\$101.12	33,030	1.70%	1.97%	3.67%	\$78.62	28.6%
Ahmeek	\$9.62	\$52.31	\$61.93	\$4.25	\$8.83	\$38.91	\$100.84	33,125	2.24%	1.41%	3.65%	\$71.65	40.7%
Lake Linden - Schoolcraft Twp	\$5.77	\$25.08	\$53.93	\$8.12	\$22.24	\$46.60	\$100.53	40,905	1.58%	1.37%	2.95%	\$76.45	31.5%
Adams Twp - Trimountain	\$6.00	\$25.00	\$43.00	\$5.25	\$47.00	\$54.88	\$97.88	33,519	1.54%	1.96%	3.50%	\$85.38	14.6%
Mackinac Island	\$3.64	\$9.94	\$28.14	\$9.26	\$23.06	\$69.21	\$97.35	48,594	0.69%	1.71%	2.40%	\$82.12	18.5%

SYSTEM	WATER - 2017			WASTEWATER - 2017			2017 TOTAL WATER & SEWER	MHI 2010 CENSU S	% MHI WATER	%MHI SEWER	% MHI TOTAL	2013 TOTAL WATER & SEWER	% Rate Increase in 5 years
	COST/ 1,000 GAL	MONTHLY CHARGE	5,000 GAL TOTAL	COST/ 1,000 GAL	MONTHLY CHARGE	5,000 GAL TOTAL							
COMMUNITIES WITH BOTH WATER & WASTEWATER													
Stephenson - Twp Customers	\$5.00	\$29.22	\$39.22	\$3.38	\$49.80	\$56.56	\$95.78	43,077	1.58%	1.09%	2.67%	\$87.26	9.8%
Marquette	\$6.68	\$5.76	\$39.16	\$10.29	\$5.00	\$56.49	\$95.65	36,797	1.28%	1.84%	3.12%	\$68.65	39.3%
Powell Twp	\$7.15	\$45.00	\$55.73	\$7.00	\$29.00	\$39.50	\$95.23	63,750	1.05%	0.74%	1.79%	\$64.00	48.8%
Copper City	\$12.00	\$18.00	\$78.00	X	\$16.00	\$16.00	\$94.00	24,904	3.76%	0.77%	4.53%	\$80.00	17.5%
Lake Linden - Village	\$4.65	\$20.26	\$43.51	\$8.12	\$22.24	\$46.60	\$90.11	33,063	1.58%	1.69%	3.27%	\$68.78	31.0%
St. Ignace - City	\$5.55	\$16.00	\$43.75	\$6.80	\$48.15	\$48.15	\$91.90	36,510	1.44%	1.58%	3.02%	\$88.70	3.6%
Osceola Township - Tamarack	\$7.50	\$36.00	\$43.50	\$8.12	\$22.62	\$46.98	\$90.48	33,750	1.55%	1.67%	3.22%	\$72.70	24.5%
Richmond Twp	\$2.00	\$25.00	\$35.00	\$4.00	\$35.00	\$55.00	\$90.00	34,583	1.21%	1.91%	3.12%	\$90.00	0.0%
Escanaba - Wells Township	\$6.46	\$28.62	\$60.92	\$2.98	\$14.14	\$29.04	\$89.96	55,365	1.32%	0.63%	1.95%	\$75.10	19.8%
Allouez Twp (1)	\$8.81	\$16.83	\$58.05	\$4.00	\$10.40	\$30.40	\$88.45	31,250	0.00%	1.17%	1.17%	\$80.34	10.1%
K I Sawyer	\$5.80	\$5.80	\$29.00	\$11.80	\$11.80	\$59.00	\$88.00	29,202	1.19%	2.42%	3.62%	\$82.00	7.3%
McMillan Twp (Ewen)	\$5.71	\$40.00	\$40.00	\$5.00	\$47.50	\$47.50	\$87.50	30,448	1.58%	1.87%	3.45%	\$70.00	25.0%
Chatham	\$5.40	\$19.50	\$46.50	X	\$39.00	\$39.00	\$85.50	33,917	1.65%	1.38%	3.03%	\$77.00	11.0%
Crystal Falls Twp **	\$6.98	\$30.56	\$30.78	\$8.95	\$52.00	\$52.00	\$82.78	39,028	0.95%	1.60%	2.55%	\$30.00	2.6%
Franklin Twp	\$1.00	\$16.00	\$16.00	\$6.80	\$30.50	\$64.50	\$80.50	37,738	0.51%	2.05%	2.56%	\$80.50	0.0%
Republic Twp	X	\$38.00	\$38.00	X	\$41.00	\$41.00	\$79.00	25,766	1.77%	1.91%	3.68%	\$47.55	66.1%
Portage Twp - Naumkeg Shores	\$4.00	\$13.00	\$33.00	\$9.00	X	\$45.00	\$78.00	40,547	0.98%	1.33%	2.31%	\$78.00	0.0%
DeTour	\$2.50	\$40.00	\$52.50	X	\$25.35	\$25.35	\$77.85	33,571	1.88%	0.91%	2.78%	\$72.85	6.9%
Marenisco Township	\$2.00	\$35.00	\$37.00	\$2.50	\$38.00	\$40.50	\$77.50	38,125	1.16%	1.27%	2.44%	\$68.00	14.0%
Adams Twp - Painesdale	\$6.00	\$25.00	\$43.00	\$3.00	\$29.00	\$33.50	\$76.50	33,519	1.54%	1.20%	2.74%	\$64.00	19.5%
Houghton	\$4.60	\$1.85	\$32.25	\$8.74	X	\$43.72	\$75.97	21,993	1.76%	2.39%	4.15%	\$67.90	11.9%
Iron River, Stambaugh, & Min Hills	\$6.62	\$26.50	\$33.12	\$8.50	\$34.00	\$42.50	\$75.62	26,306	1.51%	1.94%	3.45%	\$71.42	5.9%
Gladstone	\$5.20	\$10.00	\$36.00	\$6.15	\$8.50	\$39.25	\$75.25	41,458	1.04%	1.14%	2.18%	\$67.75	11.1%
Adams Twp - Atlantic	\$6.00	\$25.00	\$43.00	\$6.30	\$22.00	\$31.45	\$74.45	37,669	1.37%	1.00%	2.37%	\$61.95	20.2%
Wakefield	\$4.76	\$10.00	\$33.80	\$2.60	\$27.53	\$40.53	\$74.33	33,250	1.22%	1.46%	2.68%	\$68.43	8.6%
Sherman Twp - Gay	X	\$45.00	\$45.00	X	\$25.00	\$25.00	\$70.00	41,094	1.31%	0.73%	2.04%	\$50.00	40.0%
Watersmeet Township	X	\$39.00	\$39.00	X	\$30.00	\$30.00	\$69.00	32,614	1.43%	1.10%	2.54%	\$67.00	3.0%
Alpha	\$1.00	\$32.00	\$33.00	\$1.00	\$35.00	\$36.00	\$69.00	25,417	1.56%	1.56%	3.12%	\$69.00	0.0%
Caspian	\$3.00	\$30.31	\$30.31	\$3.00	\$31.44	\$36.00	\$66.31	25,066	1.54%	1.54%	3.09%	\$59.19	12.0%
Gaastra	\$4.37	\$35.35	\$35.35	\$5.90	\$30.50	\$30.50	\$65.85	26,136	1.62%	1.40%	3.02%	\$54.07	21.8%
Chassell Twp	\$6.25	\$26.00	\$32.25	\$6.25	\$26.00	\$32.25	\$64.50	43,182	0.98%	0.85%	1.83%	\$62.50	3.2%
South Range	\$3.45	\$14.60	\$24.95	\$15.40	\$7.30	\$37.30	\$62.25	33,542	0.89%	1.33%	2.23%	\$61.25	1.6%
Stephenson - City	\$3.33	\$19.48	\$26.14	\$2.25	\$33.20	\$35.70	\$61.84	33,571	1.28%	0.93%	2.21%	\$58.16	6.3%
Bates Township***	\$2.00	\$35.00	\$37.00	X	\$24.00	\$24.00	\$61.00	41,625	1.07%	0.69%	1.76%	\$61.00	0.0%
Pentland Twp	\$2.40	\$20.21	\$22.61	\$3.48	\$34.01	\$37.49	\$60.10	44,526	0.61%	1.01%	1.62%	\$46.30	29.8%
Superior Twp	\$3.16	\$32.00	\$35.98	\$1.94	\$14.34	\$24.04	\$60.02	55,542	0.78%	0.52%	1.30%	\$60.02	0.0%

SYSTEM	WATER - 2017			WASTEWATER - 2017			2017 TOTAL WATER & SEWER	MHI 2010 CENSU S	% MHI WATER	%MHI SEWER	% MHI TOTAL	2013	% Rate Increase in 5 years
	COST/ 1,000 GAL	MONTHLY CHARGE	5,000 GAL TOTAL	COST/ 1,000 GAL	MONTHLY CHARGE	5,000 GAL TOTAL						TOTAL WATER & SEWER	
COMMUNITIES WITH BOTH WATER & WASTEWATER													
Menominee - City	\$2.96	\$13.26	\$28.06	\$3.32	\$15.41	\$31.99	\$60.05	41,480	0.81%	0.93%	1.74%	\$44.41	35.2%
Rockland Twp	\$2.00	\$35.00	\$45.00	\$1.00	\$10.00	\$15.00	\$60.00	39,375	1.37%	0.46%	1.83%	\$48.00	25.0%
Interior Twp (Trout Crk)	\$3.20	\$29.50	\$32.70	\$3.20	\$8.50	\$11.70	\$44.40	32,503	1.21%	0.43%	1.64%	\$44.40	0.0%
Iron Mountain	\$3.40	\$14.50	\$31.47	\$4.18	\$7.00	\$27.90	\$59.37	41,204	0.92%	0.81%	1.73%	\$43.35	37.0%
Seney Twp	\$2.00	\$22.50	\$22.50	X	\$35.00	\$35.00	\$57.50	24,286	1.11%	1.73%	2.84%	\$53.00	8.5%
Stambaugh Twp	\$3.00	\$15.00	\$25.00	\$3.30	\$30.00	\$30.00	\$55.00	45,134	0.66%	0.80%	1.46%	\$53.34	3.1%
Escanaba	\$3.23	\$14.31	\$30.46	\$2.98	\$7.07	\$21.97	\$52.43	29,130	1.25%	0.91%	2.16%	\$43.85	19.6%
Rudyard Twp	\$2.35	\$27.75	\$27.75	X	\$22.93	\$22.93	\$50.68	40,250	0.83%	0.68%	1.51%	X	
Bergland Twp	\$5.45	\$25.44	\$30.35	X	\$18.85	\$18.85	\$49.20	30,391	1.20%	0.74%	1.94%	\$38.40	28.1%
Ishpeming Twp	\$3.00	\$9.00	\$21.00	X	\$26.40	\$26.40	\$47.40	44,576	0.57%	0.71%	1.28%	\$47.30	0.2%
Kingsford	\$2.57	\$2.50	\$15.35	\$5.34	\$2.65	\$29.35	\$44.70	33,973	0.54%	1.04%	1.58%	\$26.35	69.6%
White Birch Mobile Home Park	\$2.84	\$6.00	\$20.20	\$2.84	\$6.00	\$20.20	\$40.40	Z				\$26.35	53.3%
Kinross Twp	\$1.83	\$5.85	\$5.85	\$7.33	\$23.39	\$23.39	\$29.24	32,224	0.22%	0.87%	1.09%	\$23.10	26.6%

- Notes: (1) Water rates from Michigan American Water Co.
 (2) Wastewater rates from Torch Lake SA
 (3) Wastewater rates from North Houghton Co. Sewer Auth
 (4) Water rates from Ontonagon
 (5) Water rates from Gogebic Range Water Auth.
 MHI = Median Household Income from U.S. Census data
 * Means 2017 rates compared to 2008 rates
 ** Means 2013 sewer rates were not provided,
 so % increase is for water only
 X Means no value included in rate ordinance
 Z Means no MHI census data available for utility

**2017 RATE SURVEY: CUSTOMER COST FOR WATER ONLY
SORTED BY TOTAL CUSTOMER RATE PER 5,000 GALLONS**

SYSTEM	WATER - 2017			MHI 2010 CENSUS	% MHI WATER	2013 WATER RATES	5-Year % Change
	COST/ 1,000 GAL	MONTHLY CHARGE	5,000 GAL TOTAL				
Manistique - Twp Customers	\$14.67	\$45.70	\$119.05	54,091	2.64%	\$86.18	38.1%
Houghton County Airport	\$20.39	\$40.80	\$101.97	Z		\$84.50	20.7%
Ontonagon - Twp Customers	\$15.00	\$22.00	\$97.00	33,150	3.51%	\$97.00	0.0%
Carp Lake Twp (4)	\$15.00	\$22.00	\$97.00	30,781	3.78%	\$97.00	0.0%
Sault Ste Marie - Twp Cust	\$18.02	\$2.00	\$92.10	62,396	1.77%	\$78.48	17.4%
Wakefield Twp (5)	\$7.25	\$54.00	\$90.25	28,750	3.77%	\$90.25	0.0%
Manistique	\$9.78	\$30.47	\$79.37	29,375	3.24%	\$57.45	38.2%
Copper City	\$12.00	\$18.00	\$78.00	24,904	3.76%	\$64.00	21.9%
Ishpeming	\$15.34	\$38.35	\$76.70	39,065	2.36%	\$44.75	71.4%
Ironwood Twp (5)	\$8.25	\$38.35	\$79.60	42,892	2.23%	\$76.25	4.4%
Newberry	X	\$75.00	\$75.00	36,993	2.43%	\$35.00	114.3%
St Ignace - MoranTwp Cust	\$8.06	\$34.38	\$74.68	56,375	1.59%	\$70.08	6.2%
Eagle Harbor Twp	\$4.50	\$50.50	\$73.00	48,750	1.80%	\$73.00	0.0%
Carp Lake Twp - White Pine (4)	\$10.00	\$22.00	\$72.00	30,781	2.81%	\$72.00	0.0%
Ontonagon	\$10.00	\$22.00	\$72.00	32,950	2.62%	\$72.00	0.0%
Gogebic Range Water Authority	\$7.33	\$34.18	\$70.83	Z			
Marquette Twp	\$8.66	\$22.00	\$65.30	58,750	1.33%	\$50.15	30.2%
Norway - Twp Customers	\$6.25	\$31.25	\$62.50	49,896	1.50%	\$36.25	72.4%
Bessemer Twp (5)	\$6.50	\$30.00	\$62.50	35,909	2.09%	\$62.50	0.0%
Ahmeek	\$9.62	\$52.31	\$61.93	33,125	2.24%	\$43.30	43.0%
Escanaba - Wells Township	\$6.46	\$28.62	\$60.92	55,365	1.32%	\$50.50	20.6%
L'Anse	\$8.00	\$39.50	\$59.50	40,603	1.76%	\$43.85	35.7%
Ironwood	\$7.37	\$21.06	\$57.89	29,693	2.34%	\$45.00	28.6%
Negaunee	\$10.17	\$18.11	\$58.79	43,915	1.61%	\$53.56	9.8%
Laurium (1), (3)	\$8.81	\$16.83	\$58.05	33,083	2.11%	\$49.94	16.2%
Calumet Twp (Village) (1), (3)	\$8.81	\$16.83	\$58.05	18,750	3.72%	\$49.94	16.2%
Hubbell (1), (2)	\$8.81	\$16.83	\$58.05	35,542	1.96%	\$49.94	16.2%
Allouez Twp (1)	\$8.81	\$16.83	\$58.05	31,250	2.23%	\$49.94	16.2%
Michigan American Water Co.	\$8.81	\$16.83	\$58.05	Z		\$49.94	16.2%
Bessemer	\$7.30	\$21.15	\$57.65	28,412	2.43%	\$38.65	49.2%
Norway - City	\$6.25	\$25.00	\$56.25	36,006	1.87%	\$32.50	73.1%
Menominee - Twp Customers	\$5.92	\$26.52	\$56.12	52,029	1.29%	\$34.75	61.5%
Powell Twp	\$7.15	\$45.00	\$55.73	63,750	1.05%	\$35.00	59.2%
Forsyth Twp	\$10.00	\$25.00	\$55.00	47,639	1.39%	\$37.00	48.6%
Crystal Falls	\$8.00	\$38.85	\$54.85	35,134	1.87%	\$53.00	3.5%
Lake Linden - Schoolcraft Twp	\$5.77	\$25.08	\$53.93	40,905	1.58%	\$39.45	36.7%
DeTour	\$2.50	\$40.00	\$52.50	33,571	1.88%	\$47.50	10.5%
Munising	\$6.83	\$17.98	\$51.43	34,650	1.78%	\$36.30	41.7%
Germfask Twp	X	\$50.00	\$50.00	38,189	1.57%	\$40.00	25.0%
Hancock	\$7.85	\$7.62	\$46.87	33,030	1.70%	\$41.87	11.9%
Rockland Twp	\$1.00	\$45.00	\$49.00	39,375	1.49%	\$33.00	48.5%
Negaunee Twp	\$6.20	\$17.56	\$48.56	62,500	0.93%	\$36.00	34.9%
Breitung Twp - East Kingsford	\$7.10	\$13.00	\$48.50	43,657	1.33%	\$44.05	10.1%
Maple Ridge Twp	\$5.00	\$37.75	\$47.75	39,688	1.44%	\$27.00	76.9%
Sault Ste Marie - City Customers	\$9.01	\$2.00	\$47.07	35,323	1.60%	\$39.90	18.0%
Chatham	\$5.40	\$19.50	\$46.50	33,917	1.65%	\$43.00	8.1%
Baraga Township	\$7.60	\$38.50	\$46.10	39,303	1.41%	\$30.50	51.1%
Portage Twp - Dakota Heights	\$6.00	\$16.00	\$46.00	40,547	1.36%	\$46.00	0.0%

**2017 RATE SURVEY: CUSTOMER COST FOR WATER ONLY
SORTED BY TOTAL CUSTOMER RATE PER 5,000 GALLONS**

SYSTEM	WATER - 2017			MHI 2010 CENSUS	% MHI WATER	2013 WATER RATES	5-Year % Change
	COST/ 1,000 GAL	MONTHLY CHARGE	5,000 GAL TOTAL				
Sherman Twp - Gay	X	\$45.00	\$45.00	41,094	1.31%	\$25.00	80.0%
Rockland Twp	\$2.00	\$35.00	\$45.00	39,375	1.37%	\$33.00	36.4%
St. Ignace - City	\$5.55	\$16.00	\$43.75	36,510	1.44%	\$40.55	7.3%
St IgnaceTwp Customers	\$5.55	\$16.00	\$43.75	31,759	1.65%	\$40.55	7.3%
Baraga	\$7.60	\$36.00	\$43.60	28,424	1.84%	\$28.00	55.7%
Lake Linden - Village	\$4.65	\$20.26	\$43.51	33,063	1.58%	\$31.78	36.9%
Franklin-Quincy Water Auth.	\$1.68	\$35.00	\$43.40	Z			
Adams Twp - Atlantic	\$6.00	\$25.00	\$43.00	37,669	1.37%	\$30.50	41.0%
Adams Twp - Baltic	\$6.00	\$25.00	\$43.00	33,519	1.54%	\$30.50	41.0%
Adams Twp - Painesdale	\$6.00	\$25.00	\$43.00	33,519	1.54%	\$30.50	41.0%
Adams Twp - Trimountain	\$6.00	\$25.00	\$43.00	33,519	1.54%	\$30.50	41.0%
Ely Twp - Diorite	X	\$43.00	\$43.00	46,244	1.12%	\$28.00	53.6%
Osceola Township - Tamarack	\$7.50	\$36.00	\$43.50	33,750	1.55%	\$35.00	24.3%
Garden	X	\$40.00	\$40.00	38,125	1.26%	\$38.00	5.3%
Tilden Twp	\$7.00	\$40.00	\$40.00	48,929	0.98%	\$40.00	0.0%
McMillan Twp (Ewen)	\$5.71	\$40.00	\$40.00	30,448	1.58%	\$28.50	40.4%
Stephenson - Twp Customers	\$5.00	\$29.22	\$39.22	43,077	1.09%	\$35.50	9.5%
Marquette	\$6.68	\$5.76	\$39.16	36,797	1.28%	\$27.14	44.3%
Watersmeet Township	X	\$39.00	\$39.00	32,614	1.43%	\$39.00	0.0%
Ford River Twp	\$4.00	\$39.00	\$39.00	50,086	0.93%	\$39.00	0.0%
Portage Twp	\$4.00	\$20.75	\$38.75	40,547	1.15%	\$39.00	-0.6%
Portage Twp - Woodland	\$8.00	\$12.00	\$38.04	40,547	1.13%	\$38.04	0.0%
Republic Twp	X	\$38.00	\$38.00	25,766	1.77%	\$25.50	49.0%
Marenisco Township	\$2.00	\$35.00	\$37.00	38,125	1.16%	\$35.00	5.7%
Bates Township***	\$2.00	\$35.00	\$37.00	41,625	1.07%	\$37.00	0.0%
Gladstone	\$5.20	\$10.00	\$36.00	41,458	1.04%	\$32.25	11.6%
Superior Twp	\$3.16	\$32.00	\$35.98	55,542	0.78%	\$35.98	0.0%
Gaastra	\$4.37	\$35.35	\$35.35	26,136	1.62%	\$29.07	21.6%
Richmond Twp	\$2.00	\$25.00	\$35.00	34,583	1.21%	\$35.00	0.0%
Skandia & West Branch Twps	X	\$35.00	\$35.00	42,679	0.98%	\$22.00	37.1%
Hematite Twp	\$6.85	\$30.00	\$34.25	29,688	1.38%	\$34.25	0.0%
Wakefield	\$4.76	\$10.00	\$33.80	33,250	1.22%	\$31.50	6.8%
Iron River, Stambaugh, & Min Hills	\$6.62	\$26.50	\$33.12	26,306	1.51%	\$33.12	0.0%
Portage Twp - Naumkeg Shores	\$4.00	\$13.00	\$33.00	33,080	1.20%	\$33.00	0.0%
Alpha	\$1.00	\$32.00	\$33.00	25,417	1.56%	\$29.00	13.8%
Interior Twp (Trout Crk)	\$3.20	\$29.50	\$32.70	32,503	1.21%	\$32.70	0.0%
Houghton	\$4.60	\$1.85	\$32.25	21,993	1.76%	\$24.18	33.4%
Chassell Twp	\$6.25	\$26.00	\$32.25	43,182	0.90%	\$31.25	3.2%
Houghton Twp (Eagle River)	\$3.00	\$20.00	\$32.00	46,042	0.83%	\$32.00	0.0%
Iron Mountain	\$3.40	\$14.50	\$31.47	41,204	0.92%	\$24.30	29.5%
Ely Twp - Greenwood	X	\$31.00	\$31.00	46,244	0.80%	\$26.00	19.2%
Osceola Twp - Dollar Bay	\$4.50	\$31.00	\$31.00	33,750	1.10%	\$28.00	10.7%
Crystal Falls Twp **	\$6.98	\$30.56	\$30.78	39,028	0.95%	\$30.00	2.6%
Bergland Twp	\$5.45	\$25.44	\$30.35	30,391	1.20%	\$29.30	3.6%
Caspian	\$3.00	\$30.31	\$30.31	25,066	1.45%	\$25.31	19.8%
Escanaba	\$3.23	\$14.31	\$30.46	29,130	1.25%	\$25.25	20.6%
K I Sawyer	\$5.80	\$5.80	\$29.00	29,202	1.19%	\$27.00	7.4%
Mackinac Island	\$3.64	\$9.94	\$28.14	48,594	0.69%	\$28.14	0.0%
Menominee - City	\$2.96	\$13.26	\$28.06	41,480	0.81%	\$19.00	47.7%
Rudyard Twp	\$2.35	\$27.75	\$27.75	40,250	0.83%	X	

**2017 RATE SURVEY: CUSTOMER COST FOR WATER ONLY
SORTED BY TOTAL CUSTOMER RATE PER 5,000 GALLONS**

SYSTEM	WATER - 2017			MHI 2010 CENSUS	% MHI WATER	2013 WATER RATES	5-Year % Change
	COST/ 1,000 GAL	MONTHLY CHARGE	5,000 GAL TOTAL				
Carney-Nadeau WA	\$2.00	\$26.14	\$26.14	33,667	0.93%	\$18.00	45.2%
Stephenson - City	\$3.33	\$19.48	\$26.14	33,571	0.93%	\$23.66	9.5%
Stambaugh Twp	\$3.00	\$15.00	\$25.00	45,134	0.66%	\$23.34	6.6%
Mathias Twp	X	\$25.00	\$25.00	34,097	0.88%	\$25.00	0.0%
South Range	\$3.45	\$14.60	\$24.95	33,542	0.89%	\$24.45	2.0%
Pentland Twp	\$2.40	\$20.21	\$22.61	44,526	0.61%	\$19.30	17.2%
Seney Twp	\$2.00	\$22.50	\$22.50	24,286	1.11%	\$18.00	25.0%
Breitung Twp - Quinnesec	\$3.19	\$6.00	\$21.95	43,657	0.60%	\$21.30	3.1%
Ishpeming Twp	\$3.00	\$9.00	\$21.00	44,576	0.57%	\$12.00	75.0%
White Birch Mobile Home Park	\$2.84	\$6.00	\$20.20	Z		\$0.00	100.0%
Franklin Twp	\$1.00	\$16.00	\$16.00	37,738	0.51%	\$16.00	0.0%
Kingsford	\$2.57	\$2.50	\$15.35	33,973	0.54%	\$10.85	41.5%
Negaunee Ishpeming Water Auth.	\$1.91	X	\$9.55	Z			
Kinrossa Twp	\$1.83	\$5.85	\$5.85	32,224	0.22%	\$5.77	1.4%

- Notes: (1) Water rates from Michigan American Water Co.
(2) Wastewater rates from Torch Lake SA
(3) Wastewater rates from North Houghton Co. Sewer Auth
(4) Water rates from Ontonagon
(5) Water rates from Gogebic Range Water Auth.
MHI = Median Household Income from U.S. Census data
* Means 2017 rates compared to 2008 rates
** Means 2013 sewer rates were not provided,
so % increase is for water only
X Means no value included in rate ordinance
Z Means no MHI census data available for utility

**2017 RATE SURVEY: CUSTOMER COST FOR WASTEWATER ONLY
SORTED BY TOTAL CUSTOMER RATE PER 5,000 GALLONS**

SYSTEM	WASTEWATER - 2017			MHI 2010 CENSUS	% MHI SEWER	2013 WW RATES	5-Year % Change
	COST/ 1,000 GAL	MONTHLY CHARGE	5,000 GAL TOTAL				
Houghton County Airport	\$28.56	X	\$142.80	Z		\$64.45	121.6%
Manistique - Twp Customers	\$15.75	\$30.08	\$108.83	54,091	2.41%	\$86.42	20.6%
Munising	\$14.66	\$10.39	\$83.69	34,650	2.90%	\$61.52	26.5%
Sault Ste Marie - Twp Cust	\$16.04	\$3.20	\$83.40	62,396	1.60%	\$69.44	16.7%
Portage Twp - Dakota Heights	\$30.50	\$80.50	\$80.50	40,547	2.38%	\$68.00	15.5%
Manistique	\$10.50	\$25.06	\$77.56	29,375	3.17%	\$60.91	21.5%
Norway - Twp Customers	\$9.25	\$31.25	\$77.50	49,896	1.86%	\$52.50	32.3%
Ironwood	\$9.02	\$30.46	\$75.56	29,693	3.05%	\$60.62	24.6%
Marquette Twp	\$11.83	\$15.70	\$74.85	58,750	1.53%	\$66.85	10.7%
St IgnaceTwp Customers	\$7.69	\$34.38	\$72.83	31,759	2.75%	\$58.48	19.7%
Norway - City	\$9.25	\$25.00	\$71.25	36,006	2.37%	\$48.75	31.6%
Bessemer	\$9.50	\$22.50	\$70.00	28,412	2.96%	\$40.00	75.0%
Mackinac Island	\$9.26	\$23.06	\$69.21	48,594	1.71%	\$53.98	22.0%
L'Anse	\$6.25	\$36.50	\$67.75	40,603	2.00%	\$60.35	10.9%
St Ignace - MoranTwp Cust	\$7.41	\$29.96	\$67.01	56,375	1.43%	\$62.77	6.3%
Negaunee	\$7.82	\$35.69	\$66.97	43,915	1.83%	\$53.32	20.4%
Portage Twp	\$32.50	\$66.25	\$66.25	40,547	1.96%	\$59.75	9.8%
Masonville Township	\$6.46	\$32.31	\$64.60	43,047	1.80%	\$60.66	6.1%
Franklin Twp	\$6.80	\$30.50	\$64.50	37,738	2.05%	\$64.50	0.0%
Menominee - Twp Customers	\$6.64	\$30.82	\$64.02	52,029	1.48%	\$46.50	27.4%
Baraga	\$6.76	\$28.35	\$62.15	28,424	2.62%	\$59.80	3.9%
Baraga Township	\$6.76	\$28.35	\$62.15	39,303	1.90%	\$59.80	3.9%
Ishpeming	\$12.16	\$30.40	\$60.80	39,065	1.87%	\$41.00	48.3%
K I Sawyer	\$11.80	\$11.80	\$59.00	29,202	2.42%	\$55.00	7.3%
Ironwood Twp (5)	\$7.30	\$22.15	\$58.65	42,892	1.64%	\$60.62	-3.2%
Stephenson - Twp Customers	\$3.38	\$49.80	\$56.56	43,077	1.58%	\$51.76	8.5%
Marquette	\$10.29	\$5.00	\$56.49	36,797	1.84%	\$41.51	26.5%
Richmond Twp	\$4.00	\$35.00	\$55.00	34,583	1.91%	\$55.00	0.0%
Adams Twp - Trimountain	\$5.25	\$47.00	\$54.88	33,519	1.96%	\$54.88	0.0%
Sault Ste Marie - City Customers	\$10.27	\$3.20	\$54.55	35,323	1.85%	\$46.38	15.0%
Hancock	\$9.85	\$5.00	\$54.25	33,030	1.97%	\$36.75	47.6%
Crystal Falls Twp **	\$8.95	\$52.00	\$52.00	39,028	1.60%	X	X
Ontonagon	\$6.00	\$21.00	\$51.00	32,950	1.86%	\$51.00	0.0%
Forsyth Twp	\$10.00	\$20.00	\$50.00	47,639	1.26%	\$33.95	47.3%
Laurium (1), (3)	\$6.65	\$15.00	\$48.25	33,083	1.75%	\$37.75	21.8%
Calumet Twp (Village) (1), (3)	\$6.65	\$15.00	\$48.25	18,750	3.09%	\$37.75	27.8%
N Houghton Co. Sewer A.	\$6.65	\$15.00	\$48.25	Z		\$37.75	21.8%
St. Ignace - City	\$6.80	\$48.15	\$48.15	36,510	1.58%	\$48.15	0.0%
Michigamme Twp	X	\$47.63	\$47.63	32,279	1.77%	\$37.00	22.3%
McMillan Twp (Ewen)	\$5.00	\$47.50	\$47.50	30,448	1.87%	\$41.50	12.6%
Osceola Township - Tamarack	\$8.12	\$22.62	\$46.98	33,750	1.67%	\$37.70	19.8%
Hubbell (1), (2)	\$8.12	\$6.00	\$46.60	35,542	1.57%	\$31.70	47.0%
Lake Linden - Schoolcraft Twp	\$8.12	\$22.24	\$46.60	40,905	1.37%	\$37.00	20.6%
Lake Linden - Village	\$8.12	\$22.24	\$46.60	33,063	1.69%	\$37.00	20.6%
Torch Lake Sewer Authority	\$8.12	\$16.24	\$46.60	Z		\$31.70	32.0%
Portage Twp - Naumkeg Shores	X	\$45.00	\$45.00	40,547	1.33%	\$45.00	0.0%
Houghton	\$8.74	X	\$43.72	21,993	2.39%	\$43.72	0.0%
Iron River, Stambaugh, & Min Hills	\$8.50	\$34.00	\$42.50	26,306	1.94%	\$38.30	11.0%

**2017 RATE SURVEY: CUSTOMER COST FOR WASTEWATER ONLY
SORTED BY TOTAL CUSTOMER RATE PER 5,000 GALLONS**

SYSTEM	WASTEWATER - 2017			MHI 2010 CENSUS	% MHI SEWER	2013 WW RATES	5-Year % Change
	COST/ 1,000 GAL	MONTHLY CHARGE	5,000 GAL TOTAL				
Carp Lake Twp - White Pine (4)	\$8.50	\$41.00	\$41.00	30,781	1.60%	\$30.00	36.7%
Carp Lake Twp (4)	\$8.50	\$41.00	\$41.00	30,781	1.60%	\$30.00	36.7%
Republic Twp	X	\$41.00	\$41.00	25,766	1.91%	\$22.05	46.2%
Marenisco Township	\$2.50	\$38.00	\$40.50	38,125	1.27%	\$33.00	18.5%
Wakefield	\$2.60	\$27.53	\$40.53	33,250	1.46%	\$36.93	8.9%
Brevort Twp	X	\$40.00	\$40.00	48,571	0.99%	\$35.00	14.3%
Powell Twp	\$7.00	\$29.00	\$39.50	63,750	0.74%	\$29.00	26.6%
Gladstone	\$6.15	\$8.50	\$39.25	41,458	1.14%	\$35.50	10.6%
Chatham	X	\$39.00	\$39.00	33,917	1.38%	\$34.00	14.7%
Ahmeek	\$4.25	\$8.83	\$38.91	33,125	1.41%	\$28.35	37.2%
Greenland Twp	X	\$37.50	\$37.50	30,833	1.46%	\$35.00	7.1%
Pentland Twp	\$3.48	\$34.01	\$37.49	44,526	1.01%	\$27.00	28.0%
South Range	\$15.40	\$7.30	\$37.30	33,542	1.33%	\$36.80	1.3%
Caspian	\$3.00	\$31.44	\$36.00	25,066	1.72%	\$33.88	6.3%
Alpha	\$1.00	\$35.00	\$36.00	25,417	1.70%	\$40.00	-10.0%
Stephenson - City	\$2.25	\$33.20	\$35.70	33,571	1.28%	\$34.50	3.4%
Newberry	X	\$35.00	\$35.00	36,993	1.14%	\$29.97	14.4%
Seney Twp	X	\$35.00	\$35.00	24,286	1.73%	\$35.00	0.0%
Stannard Twp (Bruce Crossing)	X	\$35.00	\$35.00	48,229	0.87%	\$29.00	17.1%
Adams Twp - Painesdale	\$3.00	\$29.00	\$33.50	33,519	1.20%	\$33.50	0.0%
Chocoday Twp - Harvey	X	\$33.00	\$33.00	64,043	0.62%	\$27.50	20.0%
Chassell Twp	\$6.25	\$26.00	\$32.25	43,182	0.90%	\$31.25	3.2%
Menominee - City	\$3.32	\$15.41	\$31.99	41,480	0.93%	\$25.41	20.6%
Wakefield Twp (5)	X	\$31.50	\$31.50	28,750	1.31%	\$31.50	0.0%
Adams Twp - Atlantic	\$6.30	\$22.00	\$31.45	37,669	1.00%	\$31.45	0.0%
Gaastra	\$5.90	\$30.50	\$30.50	26,136	1.40%	\$25.00	22.0%
Allouez Twp (1)	\$4.00	\$10.40	\$30.40	31,250	1.17%	\$30.40	0.0%
Cedarville (Clark Twp)	X	\$30.00	\$30.00	47,069	0.76%	\$26.00	15.4%
Watersmeet Township	X	\$30.00	\$30.00	32,614	1.10%	\$28.00	6.7%
Stambaugh Twp	\$3.30	\$30.00	\$30.00	45,134	0.80%	\$30.00	0.0%
Kingsford	\$5.34	\$2.65	\$29.35	33,973	1.04%	\$15.50	89.4%
Escanaba - Wells Township	\$2.98	\$14.14	\$29.04	55,365	0.63%	\$24.60	18.0%
Iron Mountain	\$4.18	\$7.00	\$27.90	41,204	0.81%	\$19.05	46.5%
Ishpeming Twp	X	\$26.40	\$26.40	44,576	0.71%	\$26.40	0.0%
DeTour	X	\$25.35	\$25.35	33,571	0.91%	\$25.35	0.0%
Crystal Falls	\$3.62	\$25.20	\$25.20	35,134	0.86%	\$24.00	5.0%
Sherman Twp - Gay	X	\$25.00	\$25.00	41,094	0.73%	\$25.00	0.0%
Bates Township***	X	\$24.00	\$24.00	41,625	0.69%	\$24.00	0.0%
Kinross Twp	\$7.33	\$23.39	\$23.39	32,224	0.87%	\$17.33	
Superior Twp	\$1.94	\$14.34	\$24.04	55,542	0.52%	\$24.04	0.0%
Rudyard Twp	X	\$22.93	\$22.93	40,250	0.68%	X	
Escanaba	\$2.98	\$7.07	\$21.97	29,130	0.91%	\$18.60	18.1%
White Birch Mobile Home Park	\$2.84	\$6.00	\$20.20	Z		\$28.45	-40.8%
Bergland Twp	X	\$18.85	\$18.85	30,391	0.74%	\$18.00	4.7%

2017 RATE SURVEY: CUSTOMER COST FOR WASTEWATER ONLY
SORTED BY TOTAL CUSTOMER RATE PER 5,000 GALLONS

SYSTEM	WASTEWATER - 2017			MHI 2010 CENSUS	% MHI SEWER	2013 WW RATES	5-Year % Change
	COST/ 1,000 GAL	MONTHLY CHARGE	5,000 GAL TOTAL				
Sagola Twp	X	\$18.00	\$18.00	40,536	0.53%	\$18.00	0.0%
Copper City	X	\$16.00	\$16.00	24,904	0.77%	\$16.00	0.0%
Rockland Twp	\$1.00	\$10.00	\$15.00	39,375	0.46%	\$15.00	0.0%
Interior Twp (Trout Crk)	\$3.20	\$8.50	\$11.70	32,503	0.43%	\$11.70	0.0%
Rockland Twp	\$1.00	\$10.00	\$15.00	39,375	0.46%	\$15.00	0.0%

- Notes:** (1) Water rates from Michigan American Water Co.
(2) Wastewater rates from Torch Lake SA
(3) Wastewater rates from North Houghton Co. Sewer Auth
(4) Water rates from Ontonagon
(5) Water rates from Gogebic Range Water Auth.
MHI = Median Household Income from U.S. Census data
* Means 2017 rates compared to 2008 rates
** Means 2013 sewer rates were not provided,
so % increase is for water only
X Means no value included in rate ordinance
Z Means no MHI census data available for utility