



# Town of Friday Harbor Water, Wastewater, and Solid Waste Utilities Summary Reports

[www.fridayharbor.org](http://www.fridayharbor.org)

**Period ending: Feb 2022**

Data provided by  
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Water Utility, Mike Deegan, Water System Mgr.  
Frank Byrne, Water Treatment Plant Operator  
Wastewater Utility, Don Reitan, Leadman  
Solid Waste Utility, Dave Smith, Leadman

Analysis & Reports prepared by  
Mike Greene, System Administrator

**Refuse - pickups by Class**

sourceDate

/  
2 / 2022

Location	Class	Pickups
IN	Sfr	1,828.0
	RefuseOnly	277.0
	PA	170.0
	Mfr	523.0
	Ind	23.0
	Com	2,640.5
		<b>5,461.5</b>
Out	Mfr	5.5
		<b>5.5</b>
<b>TOTAL</b>		<b>5,467.0</b>

**Refuse - active accounts**

sourceDate

/  
2 / 2022

Location	Refuse Type	Accounts
IN		
	Small Dumpster	43
	PA	41
	Medium Dumpste	54
	Large Dumpster	70
	Compactors	4
	Cans Low Rate	6
	Cans	883
		<hr/> 1,101
Out		
	Large Dumpster	1
		<hr/> 1
	<b>TOTAL</b>	<b>1,102</b>

# Recycle - pickups by Class

sourceDate  
/  
2 / 2022

Location	Class	Pickups
IN	Sfr	818
	RefuseOnly	38
	PA	0
	Mfr	61
	Ind	4
	Com	2
		<hr/>
Out	Mfr	0
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<b>TOTAL</b>		<b>923</b>

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**Water - use MTD**sourceDate  
/  
2 / 2022

Spe=Special, Sfr=Single Family Residential, P.A= Public Authority, Mfr=Multi-family, Ind=Industrial, Com=Commerc

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<b>Water Class</b>	<b>Accounts</b>	<b>Gallons</b>
Spe	3	16,677
Sfr	1014	2,437,867
PA	82	523,331
Mfr	132	1,679,131
Ind	14	99,730
Com	221	1,044,244
<b>TOTAL</b>	<b>1,466</b>	<b>5,800,980</b>

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**Water use MTD - accounts with sewer**sourceDate  
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2 / 2022

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Sewer Class	Accounts	Gallons
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**Location: IN**

Mfr In/low Strength	54	574,487
Com In/lo Strength	165	579,339
Dot In/lo Strength	3	70,900
Ind In/hi Strength	1	27,560
Ind In/lo Strength	10	65,570
Lmf In/lo Strength	1	6,060
Com In/hi Strength	42	430,895
Mfr In/lo Strength	67	698,129
Mhp In/lo Strength	2	231,400
PA In/hi Strength	3	48,860
PA In/lo Strength	46	233,589
Sfr IN Town	637	1,585,595
Low Rate / IN Town	6	8,450

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	1037	4,560,834
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**Location: Out**

UW Out/hi Strength	1	86,200
Mfr Out/lo Strength	1	15,240
Sfr Out of Town	4	13,105

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	6	114,545
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<b>Sewer Class</b>	<b>Accounts</b>	<b>Gallons</b>
<b>TOTAL</b>	<b>1043</b>	<b>4,675,379</b>

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# Water - use MTD by Location

sourceDate

/  
2 / 2022

Spe=Special, Sfr=Single Family Residential, P.A= Public Authority, Mfr=Multi-family, Ind=Industrial, Com=Commerc

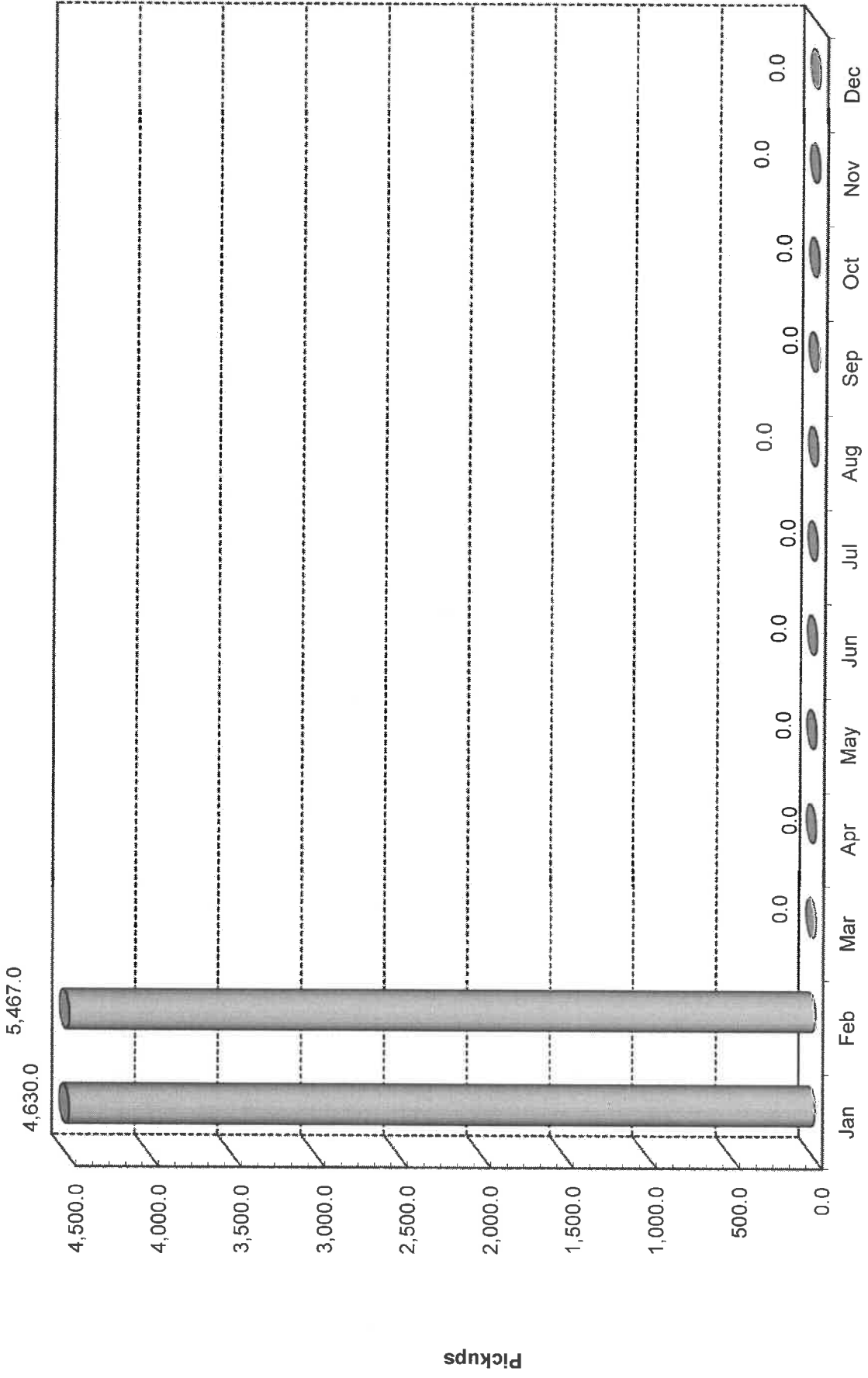
Water Class	Accounts	Gallons
<b>Location: IN</b>		
Spe	2	15,357
Sfr	659	1,614,025
PA	73	403,189
Mfr	127	1,586,571
Ind	13	99,730
Com	218	1,028,715
	1,092	4,747,587
<b>Location: Out</b>		
Spe	1	1,320
Sfr	355	823,842
PA	9	120,142
Mfr	5	92,560
Ind	1	0
Com	3	15,529
	374	1,053,393
<b>TOTAL</b>	<b>1,466</b>	<b>5,800,980</b>



## Refuse Pickups - 2022 YTD

Account Type	SFR	Refuse Only	P.A	MFR	IND	COM	Other	Total
Jan	2,031.0	264.5	107.0	566.0	17.5	1,639.0	5.0	4,630.0
Feb	1,828.0	277.0	170.0	523.0	23.0	2,640.5	5.5	5,467.0
Mar								0.0
Apr								0.0
May								0.0
Jun								0.0
Jul								0.0
Aug								0.0
Sep								0.0
Oct								0.0
Nov								0.0
Dec								0.0
YTD	3,859.0	541.5	277.0	1,089.0	40.5	4,279.5	10.5	10,097.0

# Refuse Pickups by Month - 2022



**Finish Water Flow to Town**  
source: Water Treatment Facility Monthly Report

Revised reporting period: per K. Anderson 03/06/17  
to reflect meter reading dates (?).  
Start/End dates may change monthly.

32 :count of days in reporting period.

	January 14, 2021		February 14, 2022
day	flow (total flow)	day	flow (total flow)
13		1	215
14	197	2	218
15	214	3	256
16	206	4	199
17	226	5	255
18	215	6	231
19	207	7	218
20	239	8	235
21	194	9	197
22	271	10	212
23	243	11	265
24	200	12	205
25	251	13	251
26	193	14	215
27	200	15	
28	229	16	
29	237		
30	224		
31	200		
<hr/>		<hr/>	
days	3946	days	3172
18		14	
TOTAL DAYS		32	
TOTAL FLOW		7118	
		1,000's gallons	

TOWN OF FRIDAY HARBOR

source: utilTrn08 & 13.mdb

**WATER CONSUMPTION (Use) BY CUSTOMER CLASS**

2021

CLASS:	COM	IND	MFR	P.A	SFR	Special	other uses	TOTAL	% of Use	Avg. Daily Use
JAN	1,245,000	106,800	1,477,460	778,750	2,353,930	8,953	519,909	6,490,802	6.4%	209,381
FEB	1,472,570	103,550	1,708,290	877,370	2,579,290	31,010	586,762	7,358,842	7.2%	253,753
MAR	1,269,760	79,450	1,581,430	597,760	2,269,100	15,009	668,075	6,480,584	6.4%	209,051
APR	855,070	67,640	1,845,470	421,860	2,823,760	41,241	621,772	6,676,813	6.6%	222,560
MAY	979,450	83,580	1,960,930	673,160	3,435,470	102,507	630,453	7,865,550	7.7%	253,727
JUN	1,163,080	85,270	2,111,320	827,450	3,654,370	42,123	699,038	8,582,651	8.4%	286,088
JUL	1,887,081	227,720	2,157,360	1,425,030	4,208,750	64,034	730,079	10,700,054	10.5%	345,163
AUG	2,827,729	284,390	2,761,380	2,072,320	5,553,590	139,076	800,183	14,438,668	14.2%	465,763
SEP	2,207,410	222,810	2,194,420	1,543,250	4,211,890	112,212	579,688	11,071,680	10.9%	369,066
OCT	1,679,380	128,740	2,014,950	1,065,460	2,981,580	41,258	675,971	8,587,339	8.4%	277,011
NOV	1,265,230	97,420	1,931,840	618,010	2,785,370	30,930	557,304	7,286,104	7.1%	242,870
DEC	993,490	89,190	1,717,840	424,420	2,518,610	28,300	604,796	6,376,646	6.3%	205,698
<b>TOTAL</b>	<b>17,845,250</b>	<b>1,576,560</b>	<b>23,462,690</b>	<b>11,324,840</b>	<b>39,375,710</b>	<b>656,653</b>	<b>7,674,030</b>	<b>101,915,733</b>	<b>100.0%</b>	<b>278,458</b>
<b>AVERAGE</b>	<b>1,487,104</b>	<b>131,380</b>	<b>1,955,224</b>	<b>943,737</b>	<b>3,281,309</b>	<b>54,721</b>	<b>639,503</b>	<b>8,492,978</b>	<b>-4,520,267 :LOSS for Year</b>	

% of USE	17.5%	1.5%	23.0%	11.1%	38.6%	0.6%	7.5%	100.0%	106,436,000 :FLOW (Use+Loss)
% of FLOW	16.8%	1.5%	22.0%	10.6%	37.0%	0.6%	7.2%	95.8%	-4.2% Loss as % of Flow

2022

CLASS:	COM	IND	MFR	P.A	SFR	Special	other uses	TOTAL	% of Use	Avg. Daily Use
JAN	1,349,356	106,940	1,859,134	390,738	2,869,118	6,043	446,290	7,027,619	52.9%	226,697
FEB	1,044,244	99,730	1,679,131	523,331	2,437,867	16,677	457,389	6,258,369	47.1%	215,806
MAR								0	0.0%	0
APR								0	0.0%	0
MAY								0	0.0%	0
JUN								0	0.0%	0
JUL								0	0.0%	0
AUG								0	0.0%	0
SEP								0	0.0%	0
OCT								0	0.0%	0
NOV								0	0.0%	0
DEC								0	0.0%	0
<b>TOTAL</b>	<b>2,393,600</b>	<b>206,670</b>	<b>3,538,265</b>	<b>914,069</b>	<b>5,306,985</b>	<b>22,720</b>	<b>903,679</b>	<b>13,285,988</b>	<b>100.0%</b>	<b>221,433</b>
<b>AVERAGE</b>	<b>1,196,800</b>	<b>103,335</b>	<b>1,769,133</b>	<b>457,035</b>	<b>2,653,493</b>	<b>11,360</b>	<b>75,307</b>	<b>13,285,988</b>	<b>USE for Year</b>	

% of USE	18.0%	1.6%	26.6%	6.9%	39.9%	0.2%	6.8%	100.0%	14,609,000 :FLOW (Use+Loss)
% of FLOW	16.4%	1.4%	24.2%	6.3%	36.3%	0.2%	6.2%	90.9%	-9.1% Loss as % of Flow

## Net Water Production - 2022

*amounts in gallons*

	Jan	Feb	Mar	Apr	May	Jun
Gross Production for billing period from WTP Chemical Weights & Finish Flow to Town Report	7,491,000	7,118,000	0	0	0	0
3% meter loss	197,440	174,029	0	0	0	0
Flushing	143,850	107,560				
SJC#3 FD use	5,000	5,000				
Leaks	100,000	170,800				
other non-metered use						
Additional water in storage						
<i>notes</i>						
<i>notes</i>						
<i>notes</i>						
<b>Total other uses</b>	-446,290	-457,389	0	0	0	0
<b>Net production</b>	7,044,710	6,660,611	0	0	0	0

	Jul	Aug	Sep	Oct	Nov	Dec
Gross Production for billing period from WTP Chemical Weights & Finish Flow to Town Report	0	0	0	0	0	0
3% meter loss	0	0	0	0	0	0
Flushing						
SJC#3 FD use						
Leaks						
other non-metered use						
<i>notes</i>						
<i>notes</i>						
<i>notes</i>						
<b>Total other uses</b>	0	0	0	0	0	0
<b>Net production</b>	0	0	0	0	0	0

TOWN OF FRIDAY HARBOR

# Water Consumption & Production

Revised meter loss reporting begin 07/09 (per Robert Krebs, Evergreen Rural Water Assoc.)

Period	USE (consumption)	Cumulative Use YTD	Flow (production)	Unaccounted over / (under)	Cumulative Flow YTD	Average Daily Flow	
<b>2020</b>							
<i>gallons</i>							
Jan-20	6,490,802		6,771,000	-280,198		218,419	
Feb-20	7,358,842	13,849,644	7,991,000	-632,158	14,762,000	285,393	
Mar-20	6,480,584	20,330,228	7,169,000	-688,416	21,931,000	231,258	
Apr-20	6,676,813	27,007,042	6,984,000	-307,187	28,915,000	232,800	
May-20	7,865,550	34,872,592	7,971,000	-105,450	36,886,000	257,129	
Jun-20	8,582,651	43,455,243	9,137,000	-554,349	46,023,000	304,567	
Jul-20	10,700,054	54,155,297	10,903,000	-202,946	56,926,000	351,710	YTD
Aug-20	14,438,668	68,593,965	14,737,000	-298,332	71,663,000	475,387	Unaccounted
Sep-20	11,071,680	79,665,645	11,463,000	-391,320	83,126,000	382,100	as % of Flow
Average	8,587,339	88,252,984	8,823,000	-235,661	91,949,000	284,613	4.25%
Monthly Use	7,286,104	95,539,088	7,733,000	-446,896	99,682,000	257,767	
8,492,978	6,376,646	101,915,733	6,754,000	-377,355	106,436,000	217,871	-4,520,267
<b>YEAR TOTAL:</b>	<b>12</b>	<b>108,722,907</b>	<b>Cumulative</b>	<b>-7,064,093</b>	<b>Cumulative</b>	<b>317,242</b>	
		<b>Metered/Other</b>	<b>Use YTD</b>	<b>Unaccounted</b>	<b>3% meter loss</b>	<b>2,989,222</b>	
<b>2021</b>							
<i>gallons</i>							
Jan-21	6,818,211		7,320,000	-501,789		236,129	
Feb-21	7,124,868	13,943,079	7,539,000	-414,132	14,859,000	269,250	
Mar-21	6,271,616	20,214,695	7,160,000	-888,384	22,019,000	230,968	
Apr-21	7,669,307	27,884,002	8,464,000	-794,693	30,483,000	282,133	
May-21	9,525,250	37,409,253	10,115,000	-589,750	40,598,000	326,290	
Jun-21	10,293,730	47,702,983	10,626,000	-332,270	51,224,000	354,200	
Jul-21	13,591,377	61,294,359	13,725,000	-133,623	64,949,000	442,742	YTD
Aug-21	14,723,426	76,017,785	14,978,000	-254,574	79,927,000	483,161	Unaccounted
Sep-21	11,630,682	87,648,467	12,019,000	-388,318	91,946,000	400,633	as % of Flow
Average	8,004,636	95,653,104	8,502,000	-497,364	100,448,000	274,258	5.11%
Monthly Use	7,027,754	102,680,858	7,580,000	-552,246	108,028,000	252,667	
9,093,646	6,442,893	109,123,751	6,975,000	-532,107	115,003,000	225,000	-5,879,249
<b>YEAR TOTAL:</b>	<b>12</b>	<b>109,123,751</b>	<b>Cumulative</b>	<b>-5,879,249</b>	<b>Cumulative</b>	<b>314,786</b>	
		<b>Metered/Other</b>	<b>Use YTD</b>	<b>Unaccounted</b>	<b>3% meter loss</b>	<b>2,827,251</b>	
<b>2022</b>							
<i>gallons</i>							
Jan-22	7,027,619		7,491,000	-463,381		241,645	
Feb-22	6,258,369	13,285,988	7,118,000	-859,631	14,609,000	254,214	
Mar-22	0	13,285,988	0	0	14,609,000	0	
Apr-22	0	13,285,988	0	0	14,609,000	0	
May-22	0	13,285,988	0	0	14,609,000	0	
Jun-22	0	13,285,988	0	0	14,609,000	0	
Jul-22	0	13,285,988	0	0	14,609,000	0	YTD
Aug-22	0	13,285,988	0	0	14,609,000	0	Unaccounted
Sep-22	0	13,285,988	0	0	14,609,000	0	as % of Flow
Average	0	13,285,988	0	0	14,609,000	0	9.06%
Monthly Use	0	13,285,988	0	0	14,609,000	0	
6,642,994	0	13,285,988	0	0	14,609,000	0	-1,323,012
<b>YEAR TOTAL:</b>	<b>2</b>	<b>13,285,988</b>	<b>Cumulative</b>	<b>-1,323,012</b>	<b>Cumulative</b>	<b>247,930</b>	
		<b>Metered/Other</b>	<b>Use YTD</b>	<b>Unaccounted</b>	<b>3% meter loss</b>	<b>371,469</b>	

<b>3 YEAR</b>	<b>Use</b>	<b>Flow</b>	<b>Daily Flow</b>	<b>3 Year Loss</b>
<b>AVERAGES:</b>	4,692,650 :gal/month	9,438,423 :gal/month	187,572	as % of Flow <b>4.97%</b>

source: Monthly Water Treatment Plant Report & utility.mdb's  
 3 yr cumulative flow 236,048,000  
 3 yr unaccounted -11,722,527

## Utilization of Sustainable Annual Water System Capacity

Period start: Mar-21

Period end: Feb-22

Sustainable Annual Yield (TFH  
Comprehensive Water System Plan  
Update, June, 2013, page 3-6)

205 million gallons

Annual use - 12 month period  
percent of Sustainable Annual Yield

114.8 million gallons  
56.0%

Exceeds Sustainable Yield?

**No**

TOWN OF FRIDAY HARBOR

**Trout Lake Reservoir Level**

*Months with positive levels may reflect that a removable 7.25 inch riser has been added to the top of the original spillway.*

<i>end of</i>	<i>Inches above/(below) original spillway</i>	<i>end of</i>	<i>Inches above/(below) original spillway</i>	<i>end of</i>	<i>Inches above/(below) original spillway</i>
Jan-15	0.00	Jan-18	0.00	Jan-21	0.00
Feb-15	0.00	Feb-18	0.00	Feb-21	0.00
Mar-15	0.00	Mar-18	8.75	Mar-21	8.25
Apr-15	6.50	Apr-18	8.25	Apr-21	4.30
May-15	0.00	May-18	1.50	May-21	4.30
Jun-15	-13.00	Jun-18	-10.50	Jun-21	-5.50
Jul-15	-29.50	Jul-18	-29.50	Jul-21	-34.00
Aug-15	-42.25	Aug-18	-42.00	Aug-21	-48.00
Sep-15	-49.50	Sep-18	-50.00	Sep-21	-48.00
Oct-15	-54.50	Oct-18	-54.50	Oct-21	-54.50
Nov-15	-17.25	Nov-18	-55.50	Nov-21	-55.00
Dec-15	0.00	Dec-18	-26.00	Dec-21	3.00
Jan-16	0.00	Jan-19	0.00	Jan-22	8.00
Feb-16	0.00	Feb-19	0.00	Feb-22	8.00
Mar-16	0.00	Mar-19	2.75	Mar-22	
Apr-16	6.00	Apr-19	2.75	Apr-22	
May-16	-2.50	May-19	-0.75	May-22	
Jun-16	-11.00	Jun-19	-2.00	Jun-22	
Jul-16	-21.00	Jul-19	-16.00	Jul-22	
Aug-16	-36.50	Aug-19	-26.25	Aug-22	
Sep-16	-49.50	Sep-19	-40.00	Sep-22	
Oct-16	-51.00	Oct-19	-46.25	Oct-22	
Nov-16	-45.50	Nov-19	-49.75	Nov-22	
Dec-16	-10.35	Dec-19	-49.50	Dec-22	
Jan-17	0.00	Jan-20	-11.00	Jan-23	
Feb-17	0.00	Feb-20	0.00	Feb-23	
Mar-17	2.75	Mar-20	0.00	Mar-23	
Apr-17	9.00	Apr-20	4.00	Apr-23	
May-17	4.75	May-20	0.00	May-23	
Jun-17	-4.00	Jun-20	-0.75	Jun-23	
Jul-17	-19.00	Jul-20	-8.50	Jul-23	
Aug-17	-32.00	Aug-20	-22.50	Aug-23	
Sep-17	-43.00	Sep-20	-34.00	Sep-23	
Oct-17	-50.50	Oct-20	-42.50	Oct-23	
Nov-17	-48.00	Nov-20	-45.25	Nov-23	
Dec-17	-11.50	Dec-20	-28.25	Dec-23	



# Rainfall - Trout Lake Water Treatment Facility

source: Water Treatment Plant Weather Reports

*all figures in inches*

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	average (2005-14)
JAN	5.49	6.87	6.51	2.34	3.82	4.73	5.90	3.46	4.14	2.86	4.61
FEB	1.01	1.61	2.83	1.78	1.50	1.24	2.74	3.38	1.32	4.22	2.16
MAR	2.33	0.91	3.70	1.99	2.05	3.30	3.37	3.09	3.63	3.88	2.83
APR	1.37	2.23	1.49	1.32	2.07	1.47	2.96	1.91	2.70	1.94	1.95
MAY	1.08	1.24	0.78	1.26	1.69	2.09	3.07	1.09	2.20	1.05	1.56
JUN	1.63	0.56	1.03	1.16	0.35	1.10	0.68	2.60	0.83	0.52	1.05
JUL	0.70	0.26	1.56	0.21	0.45	0.11	0.84	1.04	0.00	0.36	0.55
AUG	1.60	0.03	0.64	1.88	0.81	0.72	0.29	0.00	0.95	0.49	0.74
SEP	0.94	1.15	0.54	0.84	1.58	4.35	0.72	0.12	5.08	1.34	1.67
OCT	3.50	1.89	2.12	1.83	5.24	1.38	2.29	6.40	1.42	4.00	3.01
NOV	4.28	10.43	2.32	5.15	6.76	2.94	4.50	3.32	2.49	4.00	4.62
DEC	2.89	3.74	4.59	3.70	1.80	6.55	1.88	4.79	2.28	3.37	3.56
Total	26.82	30.92	28.11	23.46	28.12	29.98	29.24	31.20	27.04	28.03	28.29

Cumulative thru

DEC	26.82	30.92	28.11	23.46	28.12	29.98	29.24	31.20	27.04	28.03
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*all figures in inches*

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
JAN	3.97	2.17	1.60	5.10	3.87	7.32	4.36	4.49		
FEB	2.95	4.83	2.99	3.80	1.76	5.34	3.41	1.38		
MAR	3.62	2.88	3.27	1.48	0.87	1.25	1.18			
APR	0.51	0.75	2.20	3.10	1.61	1.38	1.12			
MAY	0.30	0.48	1.61	0.07	1.29	1.49	0.40			
JUN	0.14	1.22	0.75	0.72	0.61	1.25	0.69			
JUL	0.36	0.32	0.15	0.18	0.75	0.86	0.00			
AUG	0.94	0.11	0.11	0.01	0.84	0.68	0.30			
SEP	1.28	1.40	0.71	1.27	2.74	2.34	3.76			
OCT	3.53	4.80	4.28	2.23	3.33	3.39	4.34			
NOV	6.19	3.47	4.32	4.32	2.1	4.68	11.31			
DEC	5.26	4.02	3.83	4.26	3.63	6.81	4.59			
Total	29.05	26.45	25.82	26.54	23.40	36.79	35.46	5.87	0.00	0.00

Cumulative thru

DEC	29.05	26.45	25.82	26.54	23.40	36.79	35.46	5.87	0.00	0.00
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# Prevention of Wastewater Facility Overloading

Period start: Jan-20  
 Period end: Dec-20

INFLUENT BOD LOADING (pounds per day)	AVG. EFFLUENT FLOW (millions of gallons per day)	SUSPENDED SOLIDS LOADING (pounds per day)
Design Criteria (06/06 NPDES Permit #WA-002358-2, pg 12, paragraph S4.A) max.month 1,600	Design Criteria (06/06 NPDES Permit #WA-002358-2, pg 12, paragraph S4.A) max.month 0.69000	Design Criteria (06/06 NPDES Permit #WA-002358-2, pg 12, paragraph S4.A) max.month 1,110
85% Capacity Planning Threshold (06/06 NPDES Permit #WA-002358-2, pg 12, paragraph S4.B.1) 1,360	85% Capacity Planning Threshold (06/06 NPDES Permit #WA-002358-2, pg 12, paragraph S4.B.1) 0.58650	85% Capacity Planning Threshold (06/06 NPDES Permit #WA-002358-2, pg 12, paragraph S4.B.1) 944
Month with highest average loading in period Jan-19	Month with highest average flow in period Jan-19	Month with highest average loading in period Jan-19
Highest average monthly loading in period (pounds per day) 559	Highest average monthly flow in period (millions of gallons per day) 0.4088414	Highest average monthly loading in period (pounds per day) 488
% of Design Criteria <b>35%</b>	% of Design Criteria <b>59%</b>	% of Design Criteria <b>44%</b>
exceeds Design Criteria? <b>No</b>	exceeds Design Criteria? <b>No</b>	exceeds Design Criteria? <b>No</b>
Previous month's loading 509	Previous month's flow 0.2541	Previous month's loading 319
Following month's loading 524	Following month's flow 0.2799	Following month's loading 245
exceeds Planning Threshold for 3 consecutive months? <b>No</b>	exceeds Planning Threshold for 3 consecutive months? <b>No</b>	exceeds Planning Threshold for 3 consecutive months? <b>No</b>