

FLOW AND STRENGTH PROJECTIONS

MONTH: December 2024

	<u>PROJECTED</u>	<u>ACTUAL</u>	<u>DIFFERENCE</u>	<u>PROJECTED INCOME FOR MONTH</u>	<u>ACTUAL INCOME FOR MONTH</u>	<u>SURPLUS OR DEFICIT</u>
FLOW (GALLONS)	164,991,500	197,690,600	32,699,100	\$ 118,298.91	\$ 141,744.16	\$ 23,445.25
B.O.D. (#s)	492,844	441,068	-51,776	\$ 86,740.54	\$ 77,627.97	\$ (9,112.58)
S. SOLIDS (#s)	424,706	471,979	47,273	\$ 103,203.56	\$ 114,690.90	\$ 11,487.34
PHOSPHORUS (#s)	8,414	8,246	-168	\$ 55,675.44	\$ 54,563.78	\$ (1,111.66)
AMMONIA-N (#s)	62,083	46,727	-15,356	\$ 68,415.47	\$ 51,493.15	\$ (16,922.31)
CHLORIDES (#s)	936,797	1,274,222	337,425	\$ 1,873.59	\$ 2,548.44	\$ 674.85
			TOTAL:	\$ 434,207.51	\$ 442,668.41	\$ 8,460.90

(THRU DECEMBER 2024)

PROJECTED FOR 2024

	<u>END OF YEAR PROJECTED</u>	<u>YEAR TO DATE SURPLUS/ DEFICIT</u>	<u>YEAR TO DATE SURPLUS/ DEFICIT \$\$</u>
FLOW (GALLONS)	2,301,369,933	340,591,638	\$ 244,204.20
B.O.D. (#s)	5,484,285	-337,800	\$ (59,452.85)
S. SOLIDS (#s)	4,877,973	890,571	\$ 216,408.70
PHOSPHORUS (#s)	94,940	-17	\$ (109.71)
AMMONIA-N (#s)	666,440	-100,519	\$ (110,771.94)
CHLORIDES (#s)	11,252,829	1,634,432	\$ 3,268.86
		TOTAL:	\$ 293,547.27

FLOW AND STRENGTH PROJECTIONS

MONTH: December 2024

	<u>PROJECTED</u>	<u>ACTUAL</u>	<u>DIFFERENCE</u>	<u>PROJECTED INCOME FOR MONTH</u>	<u>ACTUAL INCOME FOR MONTH</u>	<u>SURPLUS OR DEFICIT</u>
FLOW (GALLONS)	184,553,000	197,690,600	13,137,600	\$ 132,324.50	\$ 141,744.16	\$ 9,419.66
B.O.D. (#s)	522,617	441,068	-81,549	\$ 91,980.59	\$ 77,627.97	\$ (14,352.62)
S. SOLIDS (#s)	487,077	471,979	-15,098	\$ 118,359.71	\$ 114,690.90	\$ (3,668.81)
PHOSPHORUS (#s)	8,783	8,246	-537	\$ 58,117.11	\$ 54,563.78	\$ (3,553.33)
AMMONIA-N (#s)	58,485	46,727	-11,758	\$ 64,450.47	\$ 51,493.15	\$ (12,957.32)
CHLORIDES (#s)	1,129,405	1,274,222	144,817	\$ 2,258.81	\$ 2,548.44	\$ 289.63
	2023 Actual Data		TOTAL:	\$ 467,491.20	\$ 442,668.41	\$ (24,822.79)

(THRU DECEMBER 2024)

PROJECTED FOR 2024

	<u>END OF YEAR PROJECTED</u>	<u>YEAR TO DATE SURPLUS/ DEFICIT</u>	<u>YEAR TO DATE SURPLUS/ DEFICIT \$\$</u>
FLOW (GALLONS)	2,301,369,933	72,646,320	\$ 52,087.41
B.O.D. (#s)	5,484,285	-521,004	\$ (91,696.68)
S. SOLIDS (#s)	4,877,973	406,586	\$ 98,800.43
PHOSPHORUS (#s)	94,940	-5,523	\$ (36,544.37)
AMMONIA-N (#s)	666,440	-98,806	\$ (108,884.10)
CHLORIDES (#s)	11,252,829	251,894	\$ 503.79
		TOTAL:	\$ (85,733.52)

FLOW AND STRENGTH PROJECTIONS

MONTH: December 2024

	<u>PROJECTED</u>	<u>ACTUAL</u>	<u>DIFFERENCE</u>	<u>PROJECTED INCOME FOR MONTH</u>	<u>ACTUAL INCOME FOR MONTH</u>	<u>SURPLUS OR DEFICIT</u>
FLOW (GALLONS)	164,991,500	197,690,600	32,699,100	\$ 118,298.91	\$ 141,744.16	\$ 23,445.25
B.O.D. (#s)	522,617	441,068	-81,549	\$ 91,980.59	\$ 77,627.97	\$ (14,352.62)
S. SOLIDS (#s)	487,077	471,979	-15,098	\$ 118,359.71	\$ 114,690.90	\$ (3,668.81)
PHOSPHORUS (#s)	8,783	8,246	-537	\$ 58,117.11	\$ 54,563.78	\$ (3,553.33)
AMMONIA-N (#s)	58,485	46,727	-11,758	\$ 64,450.47	\$ 51,493.15	\$ (12,957.32)
CHLORIDES (#s)	1,129,405	1,274,222	144,817	\$ 2,258.81	\$ 2,548.44	\$ 289.63
	3 yr avg flow		TOTAL:	\$ 453,465.60	\$ 442,668.41	\$ (10,797.19)
	2023 Actual pounds					

(THRU DECEMBER 2024)

PROJECTED FOR 2024

	<u>END OF YEAR PROJECTED</u>	<u>YEAR TO DATE SURPLUS/ DEFICIT</u>	<u>YEAR TO DATE SURPLUS/ DEFICIT \$\$</u>
FLOW (GALLONS)	2,301,369,933	340,591,638	\$ 244,204.20
B.O.D. (#s)	5,484,285	-521,004	\$ (91,696.68)
S. SOLIDS (#s)	4,877,973	406,586	\$ 98,800.43
PHOSPHORUS (#s)	94,940	-5,523	\$ (36,544.37)
AMMONIA-N (#s)	666,440	-98,806	\$ (108,884.10)
CHLORIDES (#s)	11,252,829	251,894	\$ 503.79
		TOTAL:	\$ 106,383.27

RAW INFLUENT STRENGTH (Heart of the Valley Metropolitan Sewerage Facility)

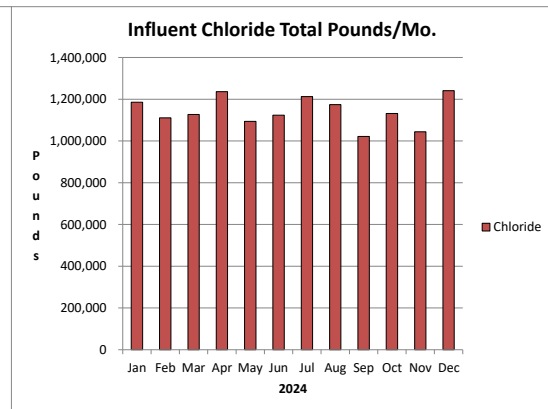
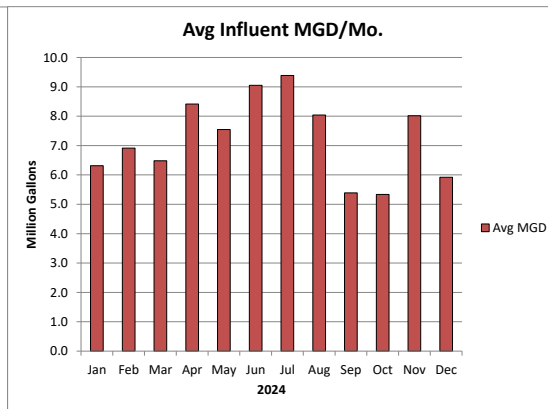
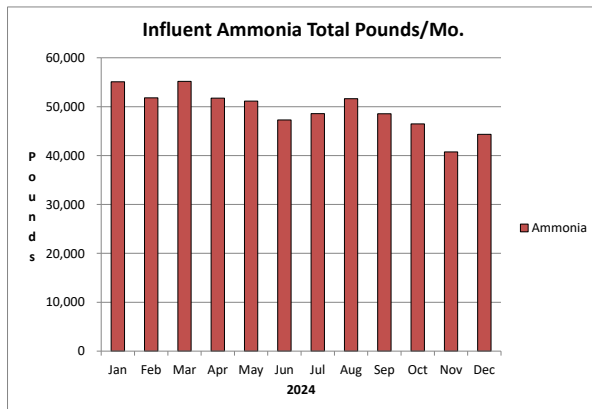
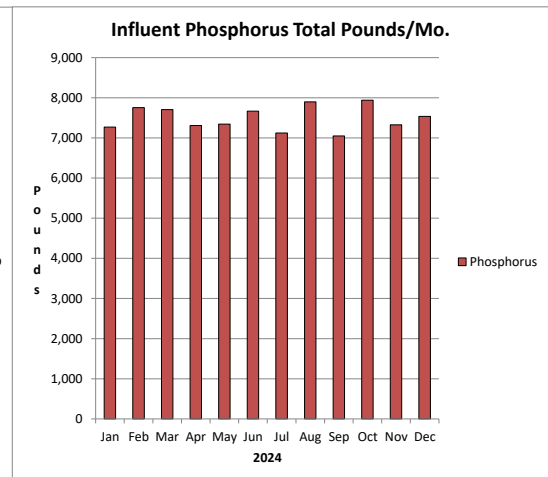
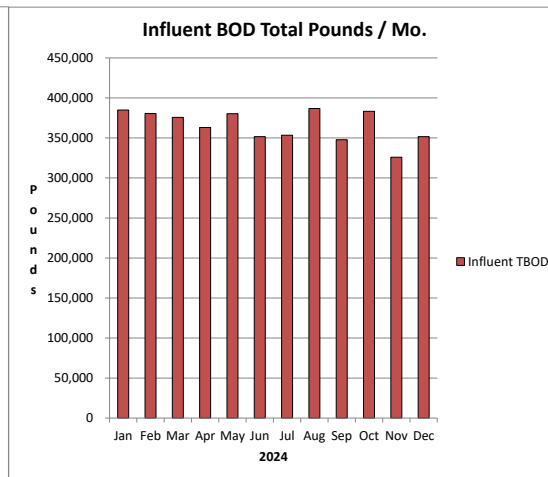
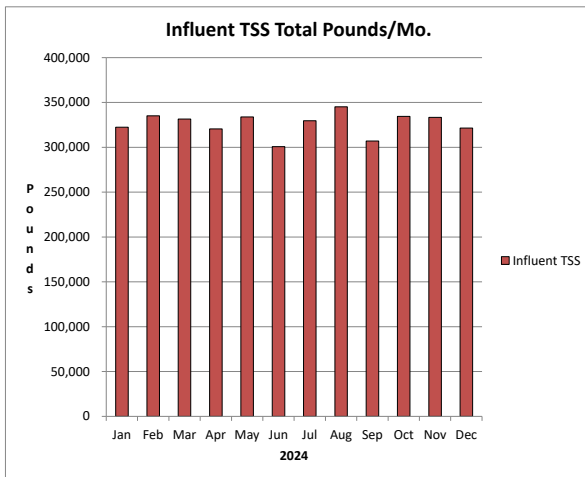
December 2024

	FLOW		TSS			BOD			TOTAL PHOSPHORUS			AMMONIA			CHLORIDE		
MONTH	Million * Gallons	Avg MGD	Avg mg/L	Avg #/day	Total # /Month	Avg mg/L	Avg #/day	Total # Month	Avg mg/L	Avg #/day	Total # Month	Avg mg/L	Avg #/day	Total # Month	Avg mg/L	Avg #/day	Total # Month
Jan	195.7	6.3	200	10,529	322,474	239	12,606	384,941	4.62	243	7,271	35.0	1841	55,081	735	38,714	1,185,582
Feb	200.5	6.9	203	11,712	335,199	231	13,306	380,481	4.81	277	7,753	31.5	1815	51,806	671	38,668	1,110,798
Mar	201.0	6.5	202	10,905	331,561	230	12,440	375,775	4.69	253	7,706	33.5	1811	55,173	683	36,936	1,126,901
Apr	252.4	8.4	164	11,479	320,482	185	12,958	363,130	3.68	258	7,309	26.0	1827	51,734	612	42,964	1,235,989
May	233.9	7.5	175	11,028	333,803	200	12,578	380,309	3.95	249	7,343	27.1	1708	51,132	598	37,655	1,093,982
Jun	271.5	9.1	144	10,869	300,719	169	12,757	351,636	3.59	271	7,666	22.6	1704	47,274	515	38,842	1,123,849
Jul	290.9	9.4	145	11,388	329,615	161	12,588	353,460	3.33	260	7,124	21.0	1642	48,564	522	40,883	1,212,590
Aug	249.3	8.0	172	11,526	345,199	192	12,890	386,875	3.91	263	7,898	25.0	1677	51,636	572	38,381	1,174,503
Sep	161.6	5.4	229	10,296	307,005	260	11,668	347,786	5.32	239	7,050	36.2	1628	48,543	766	34,418	1,022,016
Oct	165.4	5.3	244	10,868	334,444	281	12,524	383,223	5.84	260	7,939	33.8	1506	46,468	827	36,803	1,132,038
Nov	240.4	8.0	171	11,453	333,468	169	11,303	325,952	3.74	250	7,325	20.4	1365	40,735	532	35,539	1,044,280
Dec	183.6	5.9	214	10,590	321,511	234	11,558	351,684	5.03	248	7,537	29.6	1461	44,353	819	40,427	1,241,188
Average	220.5	7.2	189	11,054	326,290	213	12,432	365,438	4.38	256	7,493	28.5	1,665	49,375	654	38,352	1,141,976
Yearly Total	2,646.2				3,915,480			4,385,250			89,921			592,500			13,703,716
*Includes Hauled Waste [Plant Design Capacity] =		8.5		13,565			12,209			339			1,600				
[Hauled Waste Gallons] 226,820																	
[Max Design Capacity] =		11.9		16,278			14,651			407			1,920				
December % of Capacity		50%		65%			79%			61%			76%				

December Max Daily Flow : 8.86

EFFLUENT QUALITY

Effluent Quality															
{PERMIT LIMITS (WDNR)} →			Monthly (Avg)		801#	Monthly Avg		30 mg/L	Monthly Avg		31.5#	Monthly Avg Limit			
			Weekly (Avg)		1345#	Weekly Avg		45 mg/L	6 mo Avg		10.5#	Jan- March			
			Daily Max (mg/L)		30	WLA May-Oct			Daily Max mg/L		1.0	April-May			
												June-Sept			
												Oct- Dec			
												18 mg/L			
	FLOW		TSS			BOD			TOTAL PHOSPHORUS			AMMONIA			CHLORIDE
MONTH	Million Gallons	Avg MGD	Avg mg/L	Avg #/day	Total # /Month	Avg mg/L	Avg #/day	Total # Month	Avg mg/L	Avg #/day	Total # Month	Avg mg/L	Avg #/day	Total # Month	Avg mg/L
Jan	109.3	3.5	11.8	346	10,416	10.3	304	9,284	0.40	11.9	357	0.38	11.3	329	755
Feb	115.5	4.0	6.8	225	6,461	6.1	203	5,842	0.26	8.5	236	0.19	6.3	158	672
Mar	111.9	3.6	7.2	217	6,567	5.9	177	5,383	0.28	8.5	255	0.24	7.2	189	700
Apr	189.5	6.3	6.9	365	11,440	5.4	285	8,512	0.25	13.1	384	0.20	10.5	294	583
May	131.7	4.2	9.0	319	10,633	7.6	268	8,763	0.46	16.2	487	0.41	14.4	486	586
Jun	177.3	5.9	6.7	330	9,565	5.6	278	8,088	0.21	10.5	307	0.27	13.4	309	498
Jul	189.4	6.1	5.0	257	7,682	5.2	266	8,278	0.16	8.2	249	0.21	10.9	380	522
Aug	146.6	4.7	6.3	249	7,560	4.2	166	4,991	0.16	6.3	198	0.17	6.8	204	557
Sep	67.9	2.3	11.3	214	6,260	6.7	127	3,714	0.22	4.1	120	0.47	8.8	380	775
Oct	106.2	3.4	7.8	223	6,398	6.1	175	4,994	0.13	3.8	109	0.68	19.3	645	793
Nov	153.2	5.1	3.0	129	3,870	4.6	195	5,968	0.15	6.4	184	0.23	9.9	309	538
Dec	96.3	3.1	5.4	140	4,287	6.0	156	4,795	0.17	4.5	138	0.36	9.4	241	821
Average	132.9	4.4	7.3	251	7,595	6.2	216.6	6,551	0.24	8.5	251.9	0.32	10.7	327.1	650
Yearly Total	1,594.8				91,142			78,612			3,023			3,925.2	
Effluent Gallons to Fox Energy (December)			December	Avg #'s							6 mo. Avg #'s	5.26	Nov-April		
			WEEK 1	115											
			WEEK 2	157											
			WEEK 3	121											
			WEEK 4	145											
Million Gallons															
87.22	48%														



RAIN GAUGES

DAILY RAINFALL TOTALS

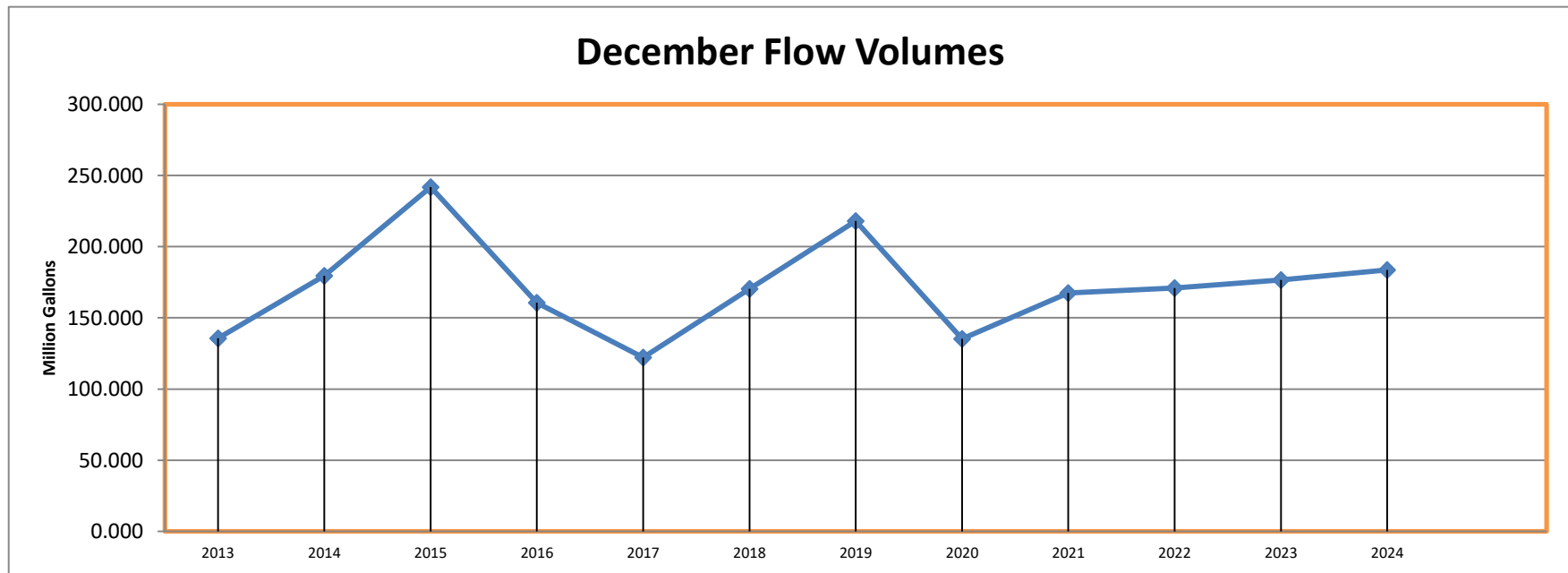
MONTH: DECEMBER

YEAR: 2024

<u>DATE</u>	<u>PLANT INCHES</u>	<u>KAUKAUNA INCHES</u>	<u>LITTLE CHUTE INCHES</u>	<u>KIMBERLY INCHES</u>	<u>DARBOY INCHES</u>
1	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00
14	0.03	0.03	0.05	0.04	0.04
15	0.02	0.02	0.03	0.02	0.04
16	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00
23	0.01	0.01	0.01	0.01	0.01
24	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.03
26	0.18	0.10	0.17	0.15	0.17
27	0.20	0.19	0.26	0.22	0.27
28	0.09	0.10	0.11	0.10	0.12
29	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00
TOTAL:	0.53	0.45	0.63	0.54	0.68

HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT

<u>Year</u>	<u>December Flow Million Gallons</u>
2013	135.674
2014	179.535
2015	241.853
2016	160.593
2017	122.136
2018	170.368
2019	218.097
2020	135.257
2021	167.477
2022	171.044
2023	176.546
2024	183.552

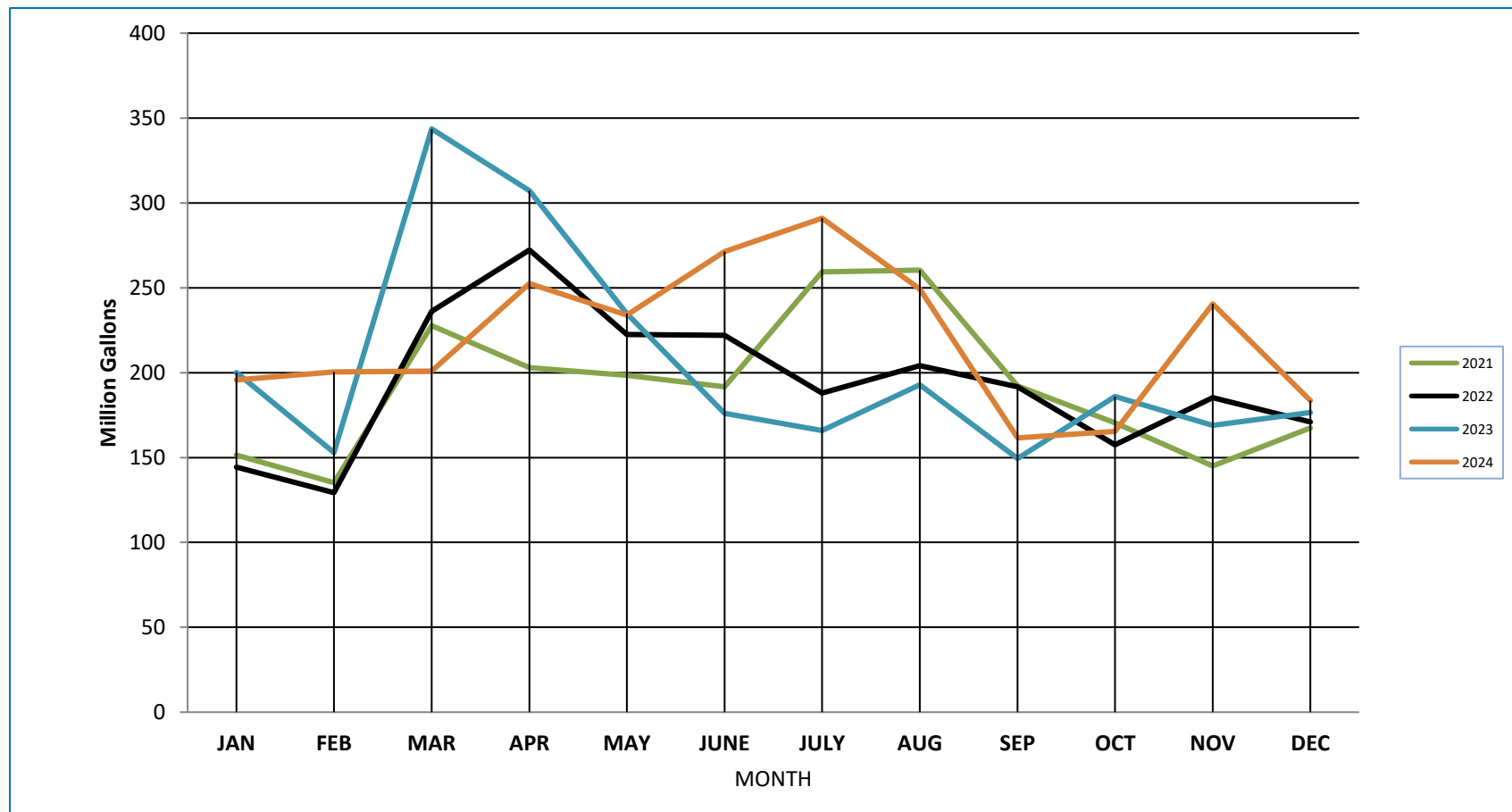


HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT

	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUNE</u>	<u>JULY</u>	<u>AUG</u>	<u>SEP</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>
2021	151.398	135.210	227.688	202.920	198.367	191.728	259.337	260.418	192.127	170.491	145.014	167.477
2022	144.333	129.312	236.184	272.294	222.500	222.064	187.964	204.237	191.682	157.552	185.294	171.044
2023	200.088	152.933	343.638	307.249	234.764	176.104	165.991	192.923	149.417	186.008	168.941	176.546
2024	195.683	200.450	200.988	252.403	233.924	271.340	290.988	249.275	161.595	165.387	240.445	183.552

*** FLOW VOLUMES REPORTED IN MILLION GALLONS ***

PLANT MONTHLY FLOW VOLUMES



HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT

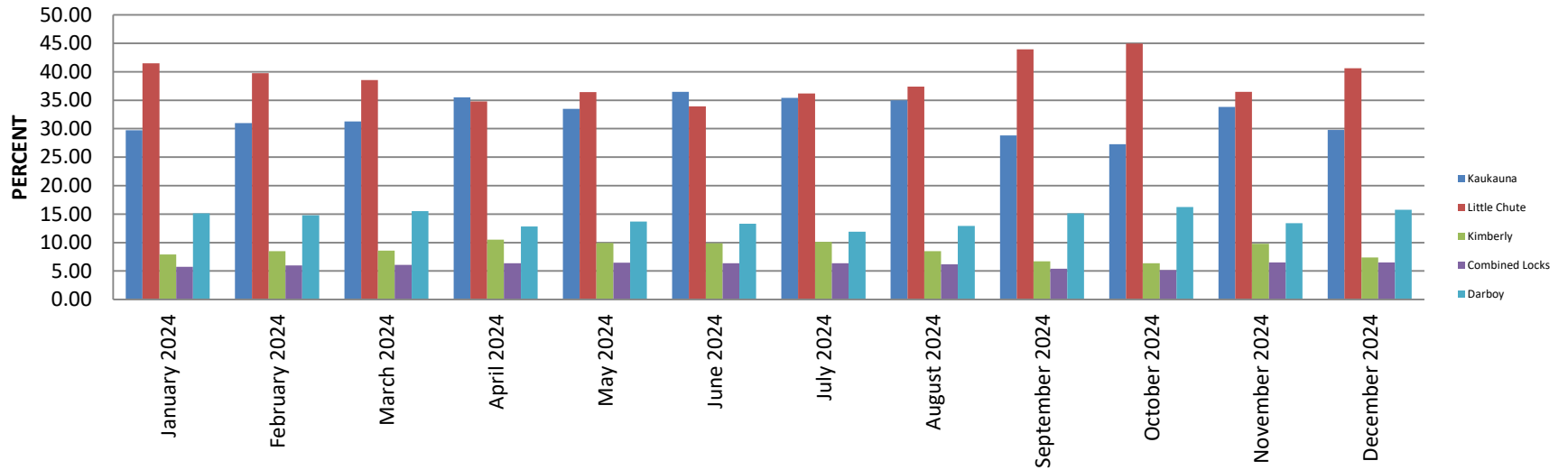
% CONTRIBUTION BY COMMUNITY - FLOW GALLONS

	<u>Kaukauna</u>	<u>Little Chute</u>	<u>Kimberly</u>	<u>Combined Locks</u>	<u>Darboy</u>	<u>Rainfall - Inches</u>
January 2024	29.74	41.48	7.91	5.75	15.12	0.33
February 2024	30.97	39.76	8.51	5.97	14.79	0.00
March 2024	31.29	38.56	8.58	6.06	15.51	1.52
April 2024	35.52	34.77	10.52	6.35	12.84	1.96
May 2024	33.50	36.42	9.92	6.48	13.68	4.03
June 2024	36.47	33.94	9.90	6.39	13.31	6.21
July 2024	35.44	36.17	10.12	6.38	11.90	5.21
August 2024	35.00	37.39	8.50	6.18	12.94	5.08
September 2024	28.80	43.96	6.69	5.42	15.13	1.06
October 2024	27.28	44.94	6.39	5.15	16.25	2.02
November 2024	33.81	36.49	9.79	6.52	13.39	2.98
December 2024	29.79	40.60	7.38	6.49	15.75	0.53

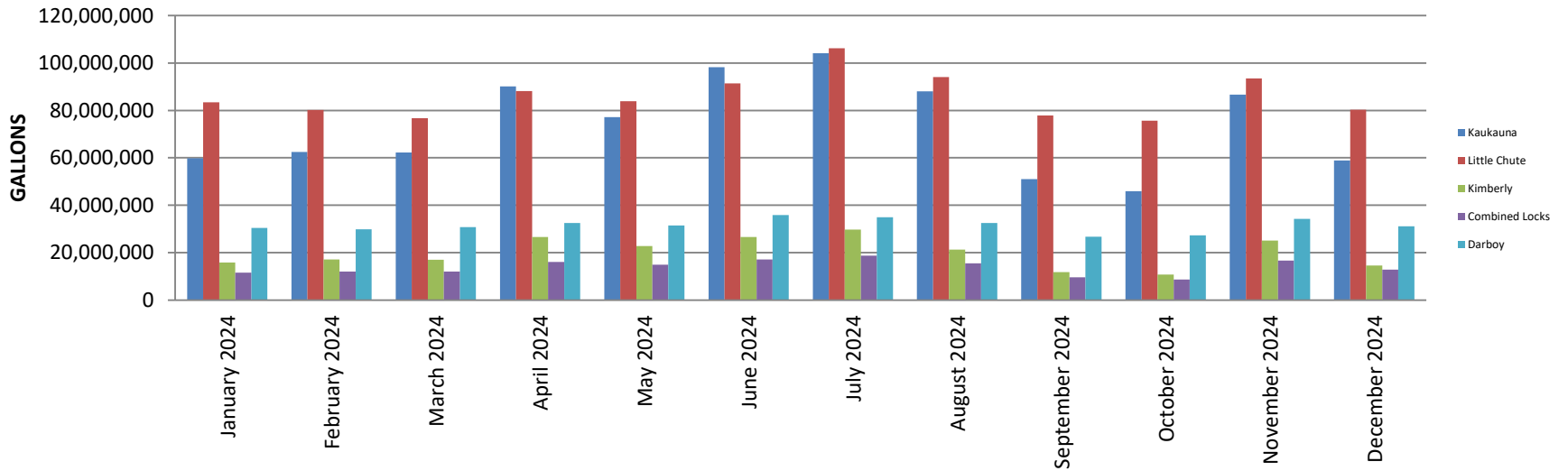
GALLONS CONTRIBUTION BY COMMUNITY - FLOW GALLONS

	<u>Kaukauna</u>	<u>Little Chute</u>	<u>Kimberly</u>	<u>Combined Locks</u>	<u>Darboy</u>
January 2024	59,813,000	83,430,000	15,903,000	11,559,000	30,420,000
February 2024	62,480,000	80,209,000	17,170,000	12,044,000	29,837,000
March 2024	62,249,000	76,725,000	17,070,000	12,059,000	30,853,000
April 2024	90,073,000	88,164,000	26,675,000	16,108,000	32,548,000
May 2024	77,197,000	83,918,000	22,869,000	14,921,000	31,528,000
June 2024	98,233,270	91,405,000	26,671,000	17,198,000	35,837,000
July 2024	104,072,000	106,215,000	29,735,000	18,733,000	34,936,000
August 2024	88,026,500	94,033,000	21,366,000	15,549,000	32,538,000
September 2024	51,010,000	77,873,000	11,853,000	9,597,000	26,797,000
October 2024	45,903,000	75,637,000	10,750,000	8,660,000	27,339,000
November 2024	86,647,000	93,503,000	25,075,000	16,712,000	34,306,000
December 2024	58,889,600	80,255,000	14,595,000	12,824,000	31,127,000

% CONTRIBUTION BY COMMUNITY - FLOW GALLONS



GALLONS CONTRIBUTION BY COMMUNITY - FLOW GALLONS



HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT

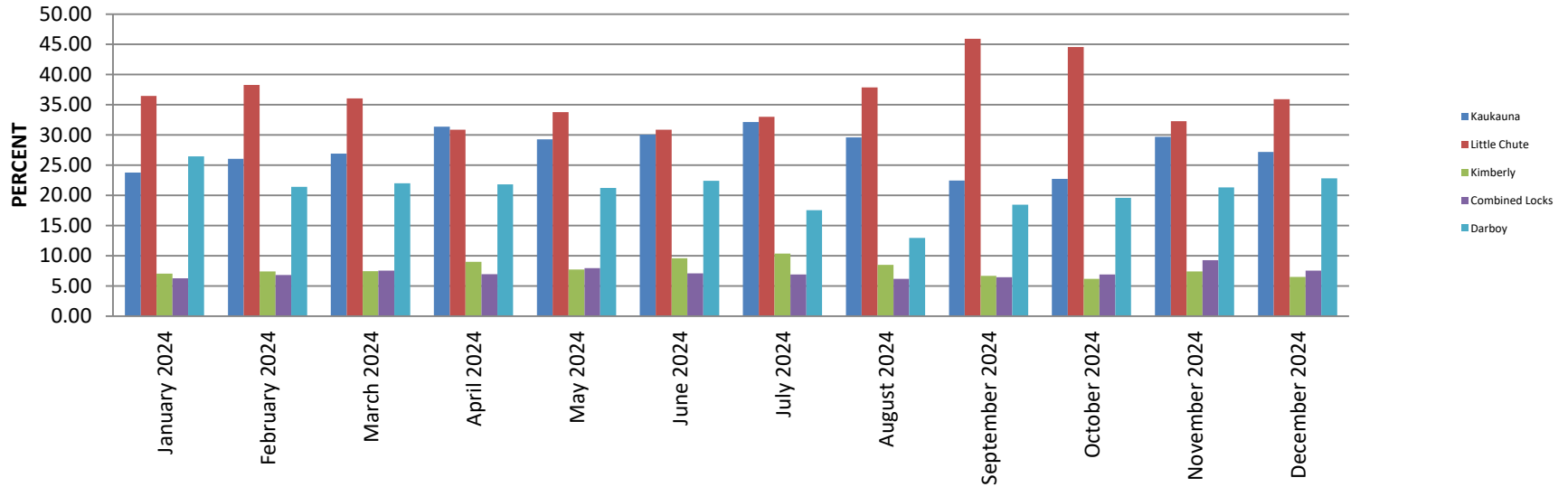
% CONTRIBUTION BY COMMUNITY - B.O.D. POUNDS

	<u>Kaukauna</u>	<u>Little Chute</u>	<u>Kimberly</u>	<u>Combined Locks</u>	<u>Darboy</u>
January 2024	23.76	36.48	7.04	6.25	26.46
February 2024	26.06	38.29	7.39	6.83	21.43
March 2024	26.92	36.06	7.47	7.53	22.02
April 2024	31.37	30.86	8.98	6.94	21.84
May 2024	29.27	33.80	7.74	7.97	21.22
June 2024	30.07	30.85	9.58	7.08	22.42
July 2024	32.15	33.02	10.37	6.89	17.57
August 2024	29.62	37.88	8.50	6.18	12.94
September 2024	22.46	45.94	6.67	6.44	18.48
October 2024	22.74	44.54	6.19	6.92	19.61
November 2024	29.69	32.28	7.41	9.28	21.34
December 2024	27.20	35.93	6.50	7.53	22.84

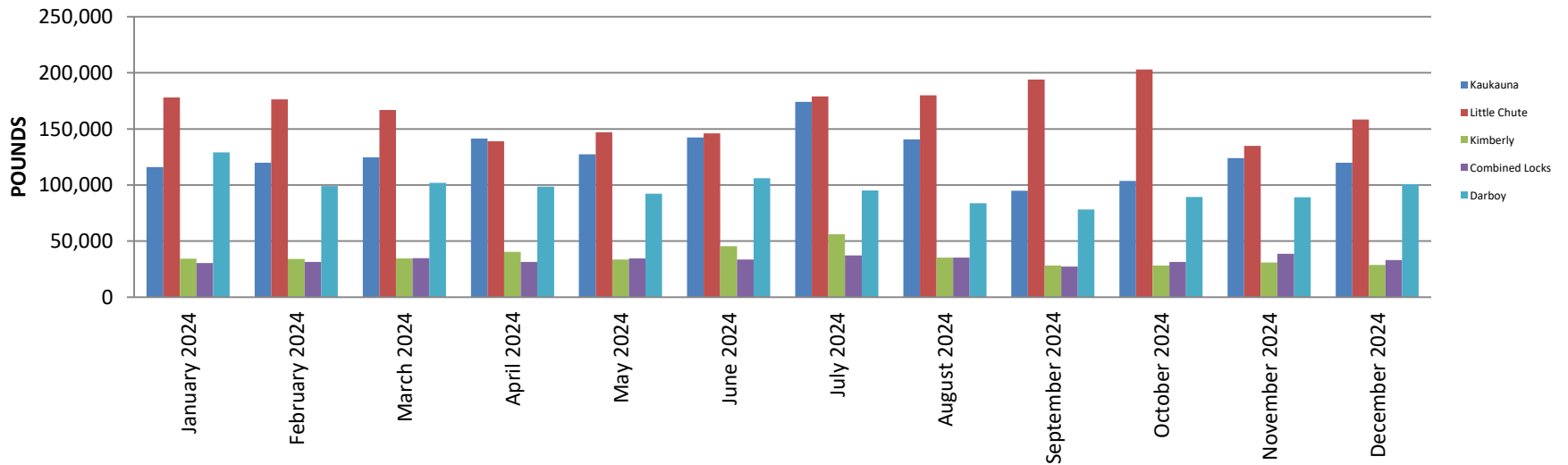
POUNDS CONTRIBUTION BY COMMUNITY - B.O.D. POUNDS

	<u>Kaukauna</u>	<u>Little Chute</u>	<u>Kimberly</u>	<u>Combined Locks</u>	<u>Darboy</u>
January 2024	115,891	177,911	34,328	30,479	129,046
February 2024	119,969	176,269	33,996	31,432	98,956
March 2024	124,658	166,986	34,573	34,879	101,944
April 2024	141,415	139,090	40,495	31,302	98,456
May 2024	127,316	147,045	33,679	34,670	92,299
June 2024	142,382	146,075	45,348	33,498	106,149
July 2024	174,196	178,935	56,222	37,347	95,200
August 2024	140,679	179,871	35,186	35,398	83,771
September 2024	94,898	194,089	28,167	27,224	78,070
October 2024	103,615	202,901	28,188	31,534	89,323
November 2024	123,990	134,789	30,955	38,756	89,123
December 2024	119,974	158,475	28,669	33,220	100,729

% CONTRIBUTION BY COMMUNITY - B.O.D. POUNDS



POUNDS CONTRIBUTION BY COMMUNITY - B.O.D. POUNDS



HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT

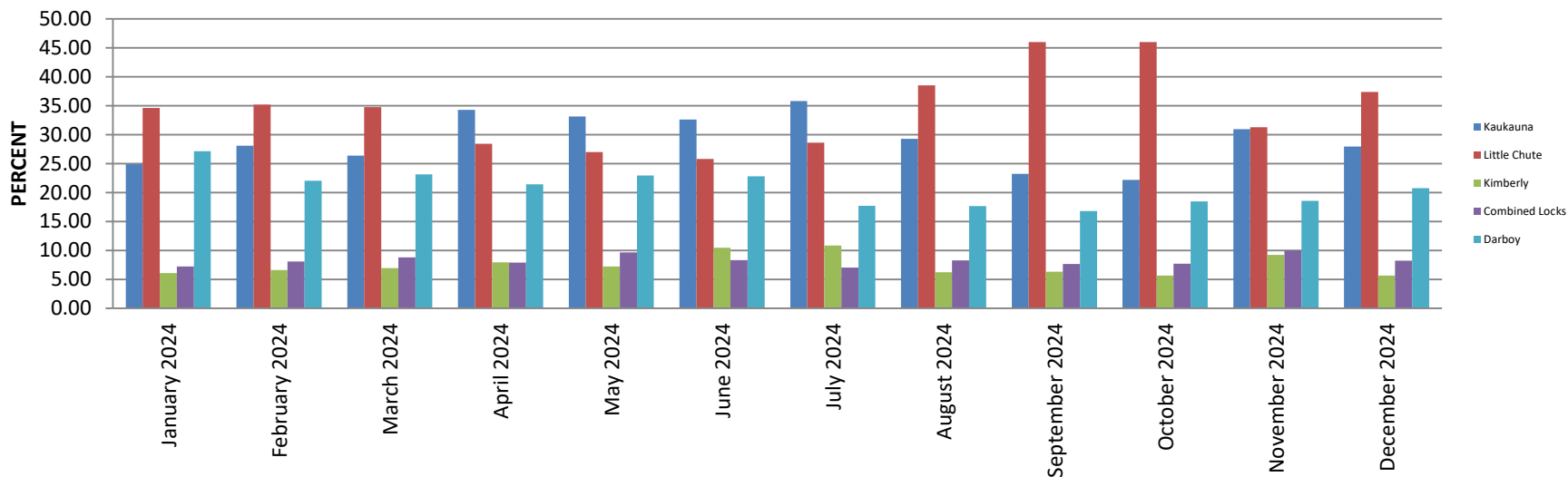
% CONTRIBUTION BY COMMUNITY -TOTAL SUSPENDED SOLIDS POUNDS

	<u>Kaukauna</u>	<u>Little Chute</u>	<u>Kimberly</u>	<u>Combined Locks</u>	<u>Darboy</u>
January 2024	24.91	34.61	6.10	7.22	27.16
February 2024	28.10	35.17	6.61	8.09	22.04
March 2024	26.37	34.78	6.94	8.79	23.13
April 2024	34.30	28.44	7.92	7.91	21.42
May 2024	33.14	27.00	7.25	9.68	22.93
June 2024	32.62	25.78	10.45	8.34	22.81
July 2024	35.80	28.61	10.83	7.05	17.71
August 2024	29.28	38.54	6.23	8.30	17.65
September 2024	23.21	46.02	6.31	7.67	16.79
October 2024	22.18	46.01	5.64	7.70	18.47
November 2024	30.96	31.27	9.22	10.00	18.55
December 2024	27.94	37.38	5.68	8.24	20.75

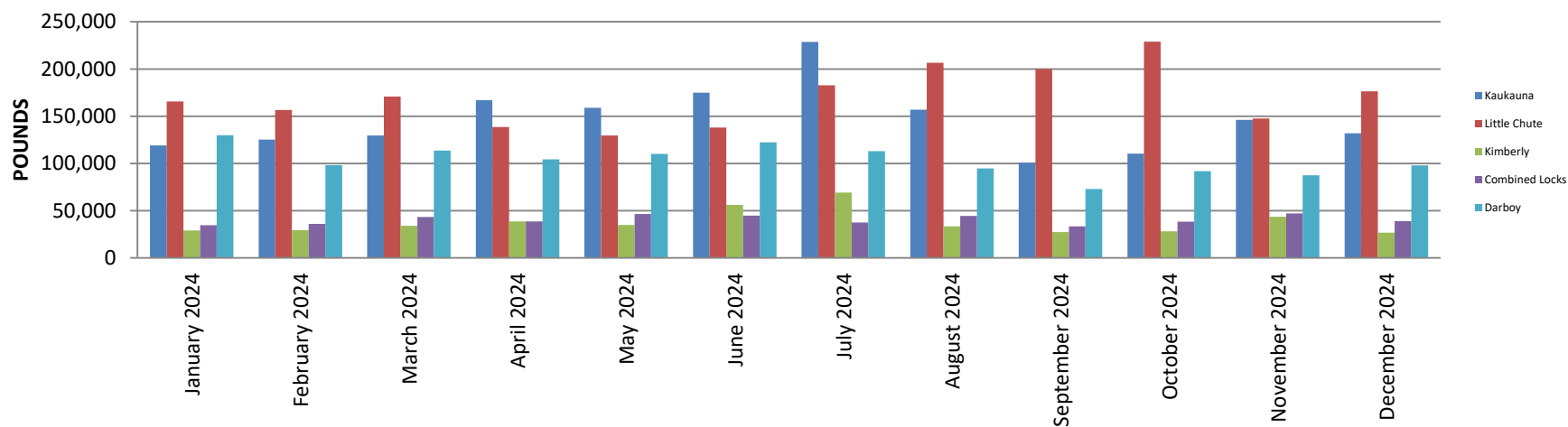
POUNDS CONTRIBUTION BY COMMUNITY - TOTAL SUSPENDED SOLIDS POUNDS

	<u>Kaukauna</u>	<u>Little Chute</u>	<u>Kimberly</u>	<u>Combined Locks</u>	<u>Darboy</u>
January 2024	119,098	165,485	29,174	34,528	129,868
February 2024	125,113	156,619	29,429	36,012	98,126
March 2024	129,532	170,834	34,081	43,191	113,610
April 2024	167,079	138,521	38,591	38,539	104,328
May 2024	158,970	129,496	34,773	46,413	110,010
June 2024	174,777	138,106	55,991	44,667	122,195
July 2024	228,585	182,655	69,167	37,347	113,065
August 2024	156,916	206,593	33,370	44,502	94,601
September 2024	100,842	199,972	27,434	33,307	72,973
October 2024	110,353	228,937	28,058	38,294	91,917
November 2024	146,133	147,558	43,521	47,188	87,540
December 2024	131,870	176,439	26,818	38,895	97,956

% CONTRIBUTION BY COMMUNITY -TOTAL SUSPENDED SOLIDS POUNDS



POUNDS CONTRIBUTION BY COMMUNITY - TOTAL SUSPENDED SOLIDS POUNDS



HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT

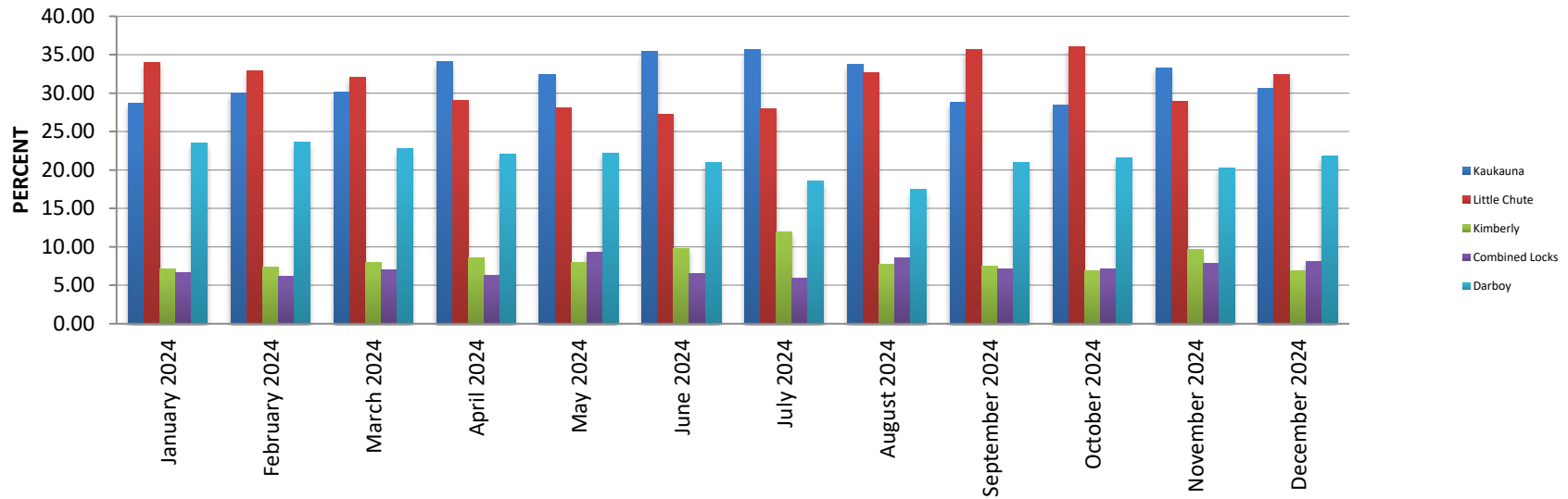
% CONTRIBUTION BY COMMUNITY - PHOSPHORUS POUNDS

	<u>Kaukauna</u>	<u>Little Chute</u>	<u>Kimberly</u>	<u>Combined Locks</u>	<u>Darboy</u>
January 2024	28.68	33.99	7.16	6.63	23.53
February 2024	29.98	32.88	7.36	6.19	23.58
March 2024	30.19	32.08	7.96	7.01	22.75
April 2024	34.06	29.07	8.55	6.27	22.05
May 2024	32.45	28.08	7.92	9.31	22.24
June 2024	35.48	27.27	9.77	6.52	20.95
July 2024	35.62	28.02	11.96	5.89	18.52
August 2024	33.73	32.63	7.69	8.52	17.43
September 2024	28.79	35.62	7.52	7.08	21.00
October 2024	28.39	35.98	6.91	7.12	21.59
November 2024	33.30	28.89	9.65	7.87	20.29
December 2024	30.63	32.44	6.90	8.14	21.88

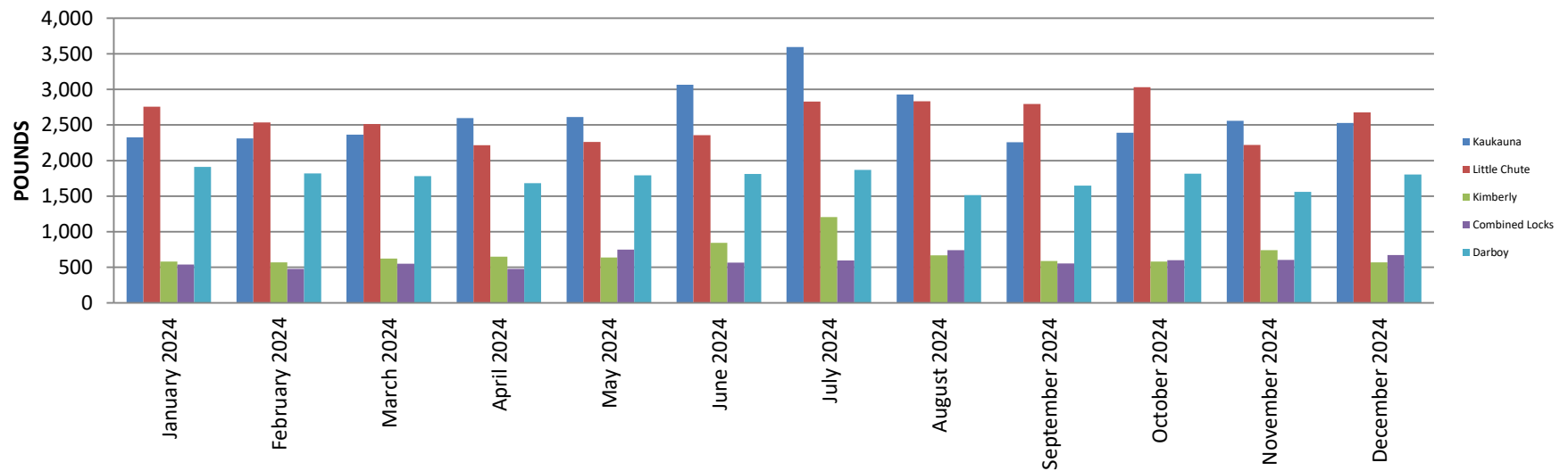
POUNDS CONTRIBUTION BY COMMUNITY - PHOSPHORUS POUNDS

	<u>Kaukauna</u>	<u>Little Chute</u>	<u>Kimberly</u>	<u>Combined Locks</u>	<u>Darboy</u>
January 2024	2,326	2,757	581	538	1,909
February 2024	2,312	2,537	568	478	1,819
March 2024	2,365	2,513	624	549	1,782
April 2024	2,596	2,216	651	478	1,681
May 2024	2,613	2,260	638	749	1,791
June 2024	3,065	2,356	844	564	1,810
July 2024	3,595	2,828	1,207	595	1,869
August 2024	2,928	2,833	668	740	1,513
September 2024	2,257	2,793	589	555	1,646
October 2024	2,390	3,029	582	599	1,817
November 2024	2,559	2,220	741	605	1,559
December 2024	2,526	2,675	569	672	1,804

% CONTRIBUTION BY COMMUNITY - PHOSPHORUS POUNDS



POUNDS CONTRIBUTION BY COMMUNITY - PHOSPHORUS POUNDS



HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT

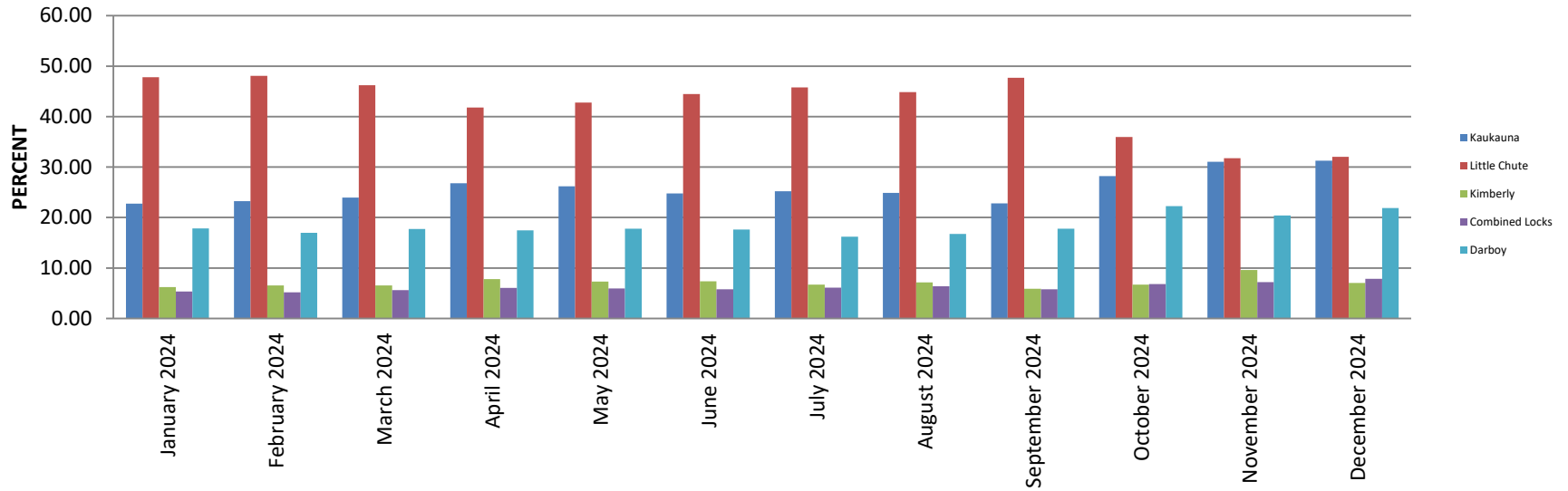
% CONTRIBUTION BY COMMUNITY - AMMONIA POUNDS

	<u>Kaukauna</u>	<u>Little Chute</u>	<u>Kimberly</u>	<u>Combined Locks</u>	<u>Darboy</u>
January 2024	22.77	47.81	6.21	5.34	17.86
February 2024	23.23	48.08	6.54	5.16	16.99
March 2024	23.94	46.19	6.55	5.59	17.73
April 2024	26.80	41.82	7.82	6.07	17.48
May 2024	26.20	42.79	7.29	5.96	17.76
June 2024	24.77	44.45	7.38	5.77	17.64
July 2024	25.19	45.79	6.71	6.11	16.20
August 2024	24.88	44.83	7.14	6.38	16.77
September 2024	22.81	47.68	5.91	5.79	17.81
October 2024	28.23	35.97	6.71	6.82	22.26
November 2024	31.07	31.76	9.58	7.18	20.42
December 2024	31.25	32.05	7.01	7.84	21.86

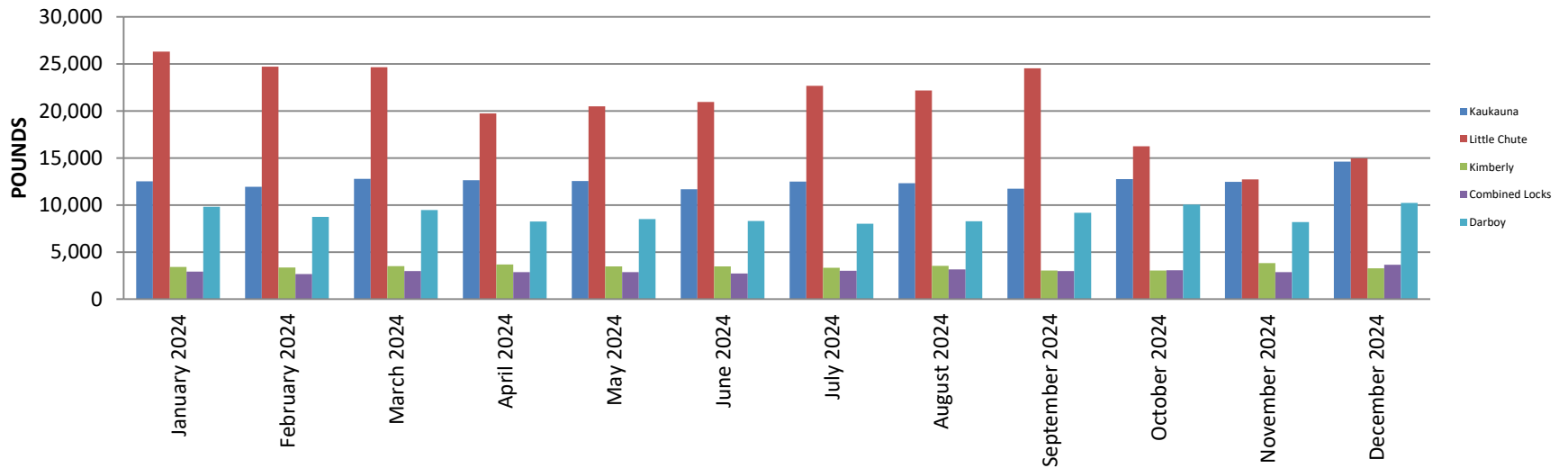
POUNDS CONTRIBUTION BY COMMUNITY - AMMONIA POUNDS

	<u>Kaukauna</u>	<u>Little Chute</u>	<u>Kimberly</u>	<u>Combined Locks</u>	<u>Darboy</u>
January 2024	12,531	26,308	3,416	2,938	9,829
February 2024	11,934	24,700	3,359	2,651	8,729
March 2024	12,778	24,649	3,493	2,986	9,462
April 2024	12,649	19,739	3,688	2,867	8,251
May 2024	12,536	20,477	3,488	2,854	8,499
June 2024	11,673	20,947	3,479	2,718	8,311
July 2024	12,481	22,684	3,324	3,026	8,025
August 2024	12,303	22,165	3,531	3,154	8,289
September 2024	11,738	24,538	3,042	2,979	9,165
October 2024	12,746	16,239	3,029	3,080	10,051
November 2024	12,452	12,725	3,837	2,875	8,182
December 2024	14,601	14,974	3,276	3,662	10,214

% CONTRIBUTION BY COMMUNITY - AMMONIA POUNDS



POUNDS CONTRIBUTION BY COMMUNITY - AMMONIA POUNDS



HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT

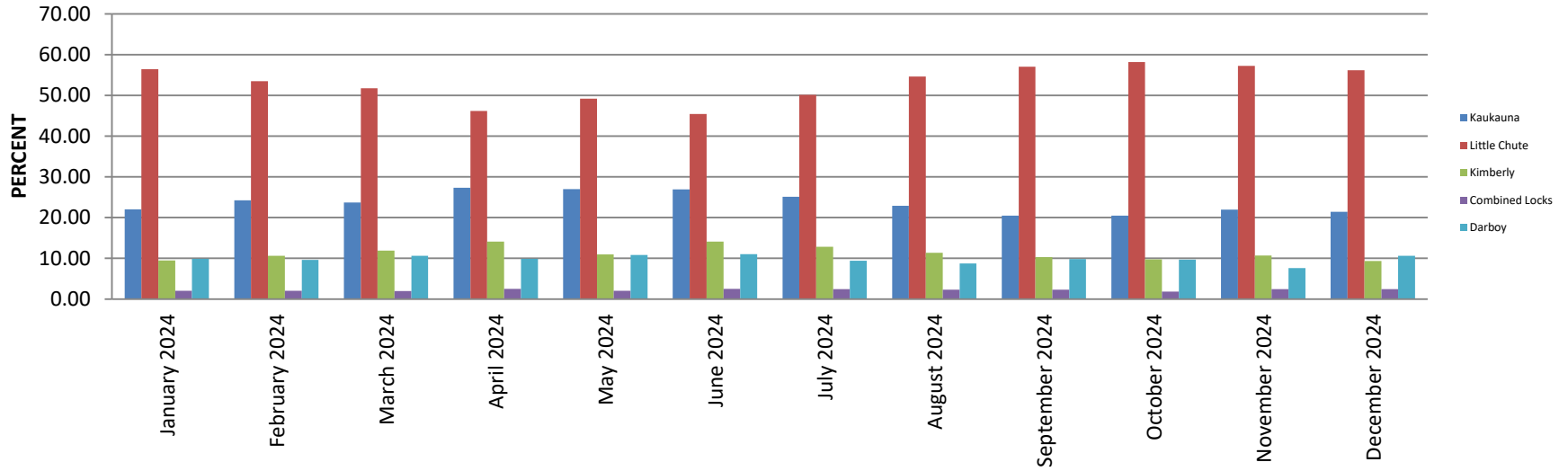
% CONTRIBUTION BY COMMUNITY - CHLORIDE POUNDS

	<u>Kaukauna</u>	<u>Little Chute</u>	<u>Kimberly</u>	<u>Combined Locks</u>	<u>Darboy</u>
January 2024	22.06	56.47	9.49	2.08	9.91
February 2024	24.24	53.51	10.63	2.02	9.61
March 2024	23.70	51.77	11.92	2.00	10.61
April 2024	27.30	46.17	14.13	2.51	9.89
May 2024	26.98	49.21	10.94	2.02	10.84
June 2024	26.94	45.42	14.10	2.52	11.03
July 2024	25.13	50.15	12.88	2.42	9.42
August 2024	22.93	54.65	11.37	2.33	8.73
September 2024	20.52	57.01	10.31	2.33	9.83
October 2024	20.46	58.21	9.77	1.84	9.71
November 2024	22.00	57.26	10.67	2.44	7.62
December 2024	21.42	56.18	9.35	2.42	10.63

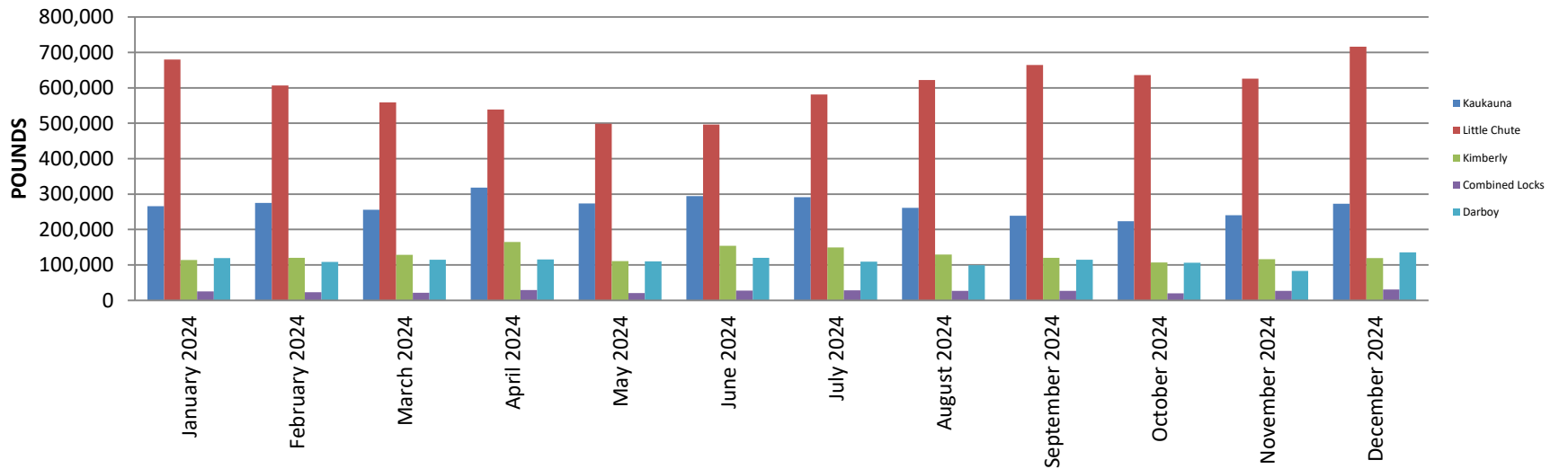
POUNDS CONTRIBUTION BY COMMUNITY - CHLORIDE POUNDS

	<u>Kaukauna</u>	<u>Little Chute</u>	<u>Kimberly</u>	<u>Combined Locks</u>	<u>Darboy</u>
January 2024	265,727	680,128	114,277	25,047	119,326
February 2024	274,796	606,570	120,456	22,874	108,956
March 2024	255,842	558,721	128,644	21,635	114,489
April 2024	318,626	538,827	164,878	29,273	115,448
May 2024	273,445	498,736	110,857	20,480	109,905
June 2024	294,202	496,048	153,965	27,510	120,470
July 2024	291,356	581,389	149,275	28,090	109,262
August 2024	261,132	622,448	129,456	26,532	99,394
September 2024	239,069	664,134	120,088	27,101	114,461
October 2024	223,375	635,599	106,702	20,104	106,040
November 2024	240,652	626,242	116,670	26,731	83,342
December 2024	272,931	715,844	119,121	30,888	135,437

% CONTRIBUTION BY COMMUNITY - CHLORIDE POUNDS

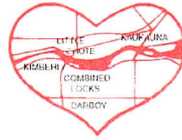


POUNDS CONTRIBUTION BY COMMUNITY - CHLORIDE POUNDS



DISTRICT DIRECTOR:

Brian M. Helminger

**COMMISSIONERS:**

David J. Casper, President
 Bruce M. Siebers, Vice-President
 Patrick E. Hennessey, Secretary
 Kevin P. Coffey, Commissioner
 John W. Sundelius, Commissioner

SERVING:

Combined Locks
 Kaukauna
 Kimberly
 Little Chute
 Darboy S.D.

Heart of the Valley**METROPOLITAN SEWERAGE DISTRICT**

801 THILMANY ROAD
 KAUKAUNA, WISCONSIN 54130
 (920) 766-5731 FAX (920) 766-5733
www.hvmsd.org

Facility: Wisconsin Public Service Corporation - Fox Energy Center
 P.O. Box 5651
 Bismarck, ND 58506

Attn: Account # N2310E

Month: December

Year: 2024

Gallons of Final Effluent Purchased (Billing)

<u>Date</u>	<u>Gallons</u>	<u>Date</u>	<u>Gallons</u>
12/1/2024	2,795,000	12/21/2024	3,048,000
12/2/2024	2,973,000	12/22/2024	2,908,000
12/3/2024	3,305,000	12/23/2024	3,017,000
12/4/2024	2,803,000	12/24/2024	2,894,000
12/5/2024	2,695,000	12/25/2024	2,625,000
12/6/2024	2,937,000	12/26/2024	2,895,000
12/7/2024	2,608,000	12/27/2024	2,616,000
12/8/2024	2,351,000	12/28/2024	2,787,000
12/9/2024	2,127,000	12/29/2024	2,970,000
12/10/2024	3,013,000	12/30/2024	2,609,000
12/11/2024	2,831,000	12/31/2024	2,454,000
12/12/2024	2,973,000		
12/13/2024	2,839,000		
12/14/2024	2,701,000		
12/15/2024	3,124,000		
12/16/2024	3,130,000		
12/17/2024	2,489,000		
12/18/2024	3,102,000		
12/19/2024	2,972,000		
12/20/2024	2,633,000		
		Total:	87,224,000

Facility: Wisconsin Public Service Corporation - Fox Energy Center
P.O. Box 5651
Bismarck, ND 58506

Attn: Account # N2310E

MONTHLY BILLING

Month: December

Year: 2024

GALLONS PURCHASED: 87,224,000

BILLING RATE: \$0.1832483 PER 1000 GALLONS

TOTAL AMOUNT DUE: \$15,983.65

**Heart of the Valley
Metropolitan Sewerage District**

**Fox Energy Revenue
From the Sale of Final Effluent**

2024

Final Effluent Sent to Fox Energy Facility

Gallons: 1,051,614,000

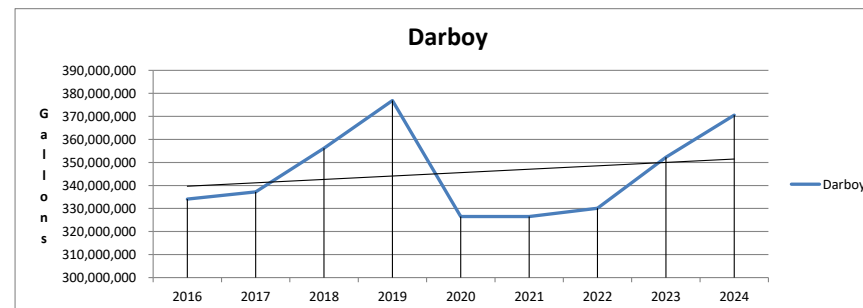
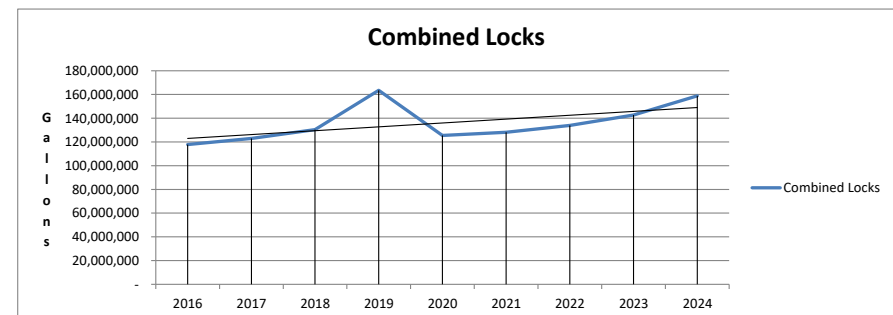
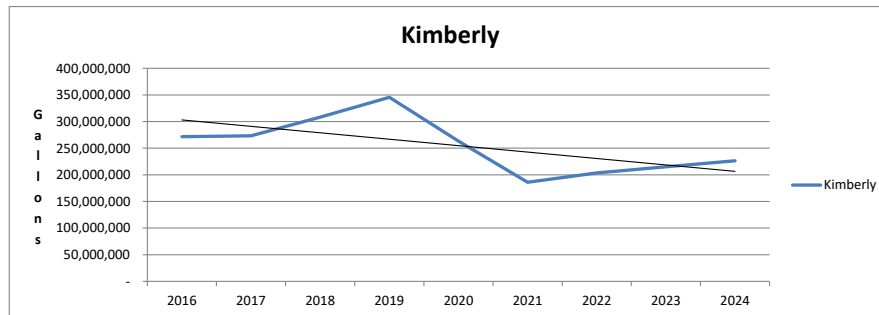
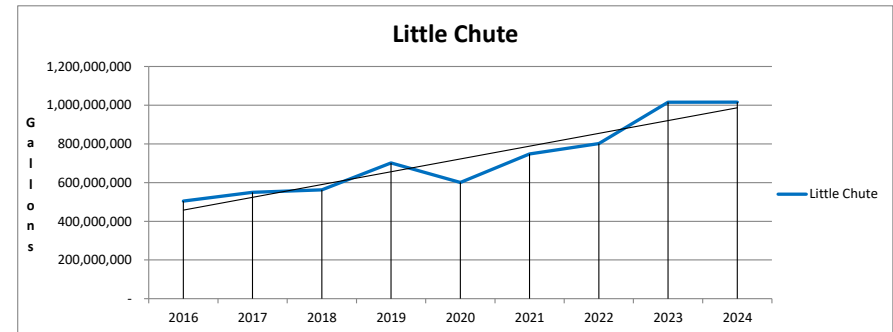
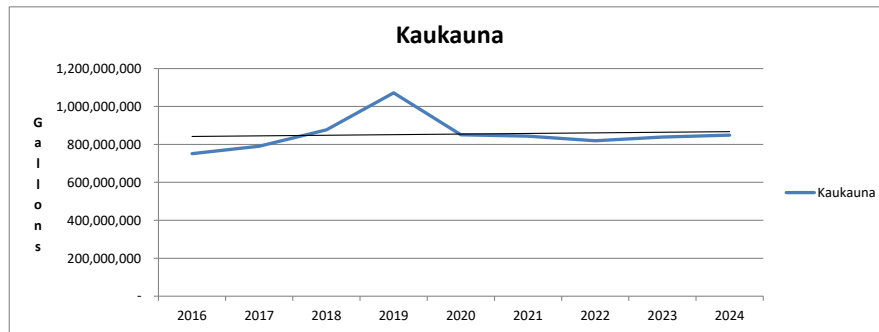
Charge Per 1000 Gallons: **\$0.1832483** Per 1000 Gallons

Sale of Final Effluent (Revenue Collected): \$192,706.48

Community Flows

Million Gallons

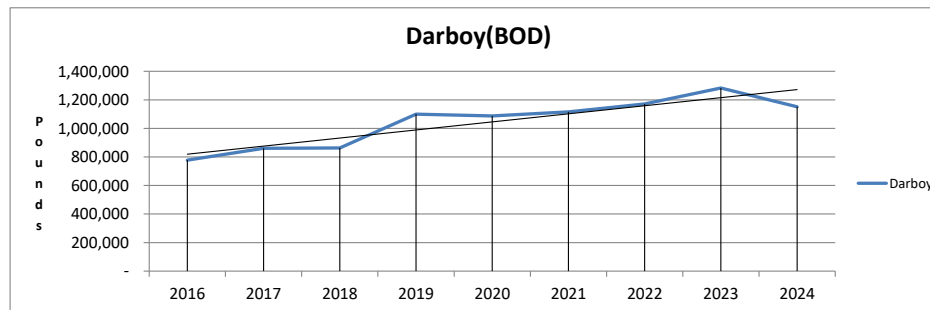
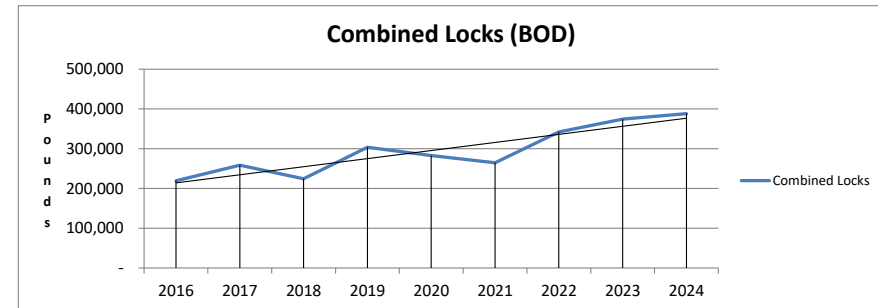
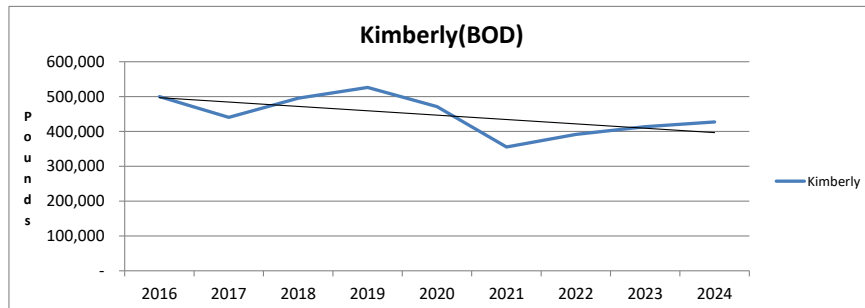
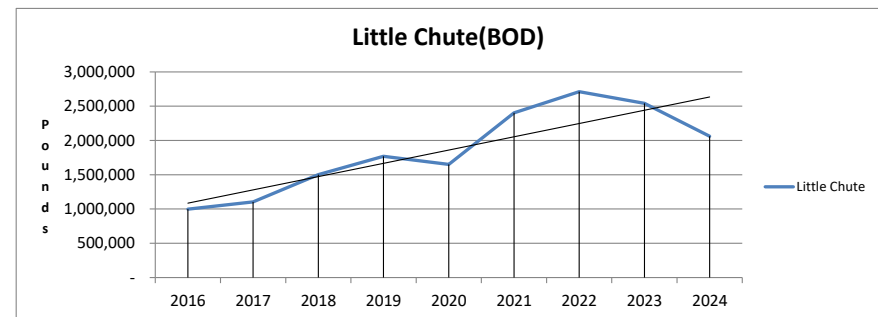
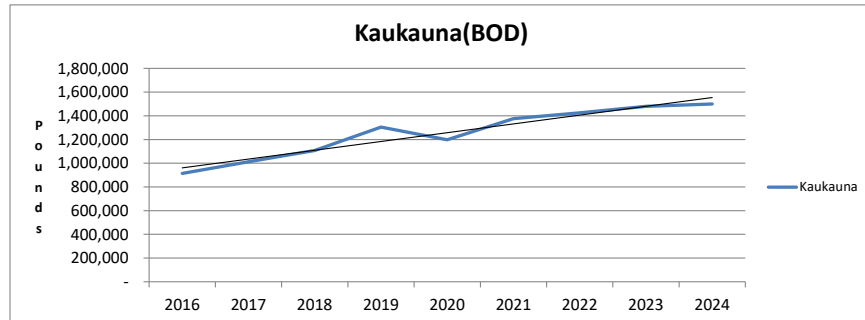
	2016	2017	2018	2019	2020	2021	2022	2023	2024
Kaukauna	751,377,250	790,669,750	877,305,720	1,071,796,300	850,977,100	843,355,000	818,946,000	838,940,000	848,956,470
Little Chute	504,459,000	549,502,000	562,652,000	701,637,000	600,334,000	747,488,000	801,251,000	1,015,621,000	1,015,737,000
Kimberly	271,618,000	273,445,000	308,188,000	345,505,000	263,265,000	186,069,000	203,554,000	215,063,000	226,510,000
Combined Locks	117,817,000	122,997,000	130,346,000	163,519,000	125,460,000	128,183,000	134,016,000	142,773,000	158,849,000
Darboy	334,095,000	337,214,000	356,147,000	376,897,000	326,519,000	326,514,000	330,109,000	352,251,000	370,557,000



Community BOD Loadings

Total Pounds

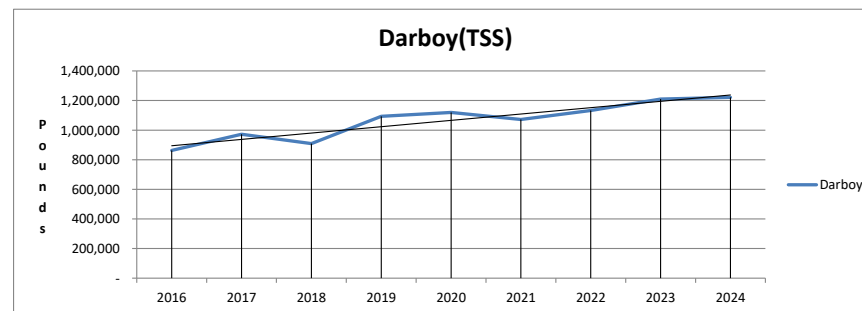
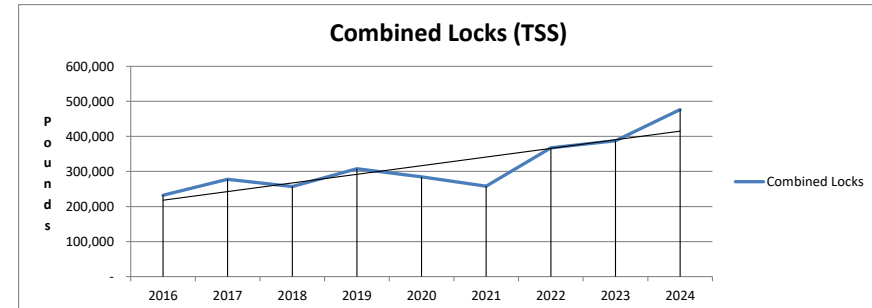
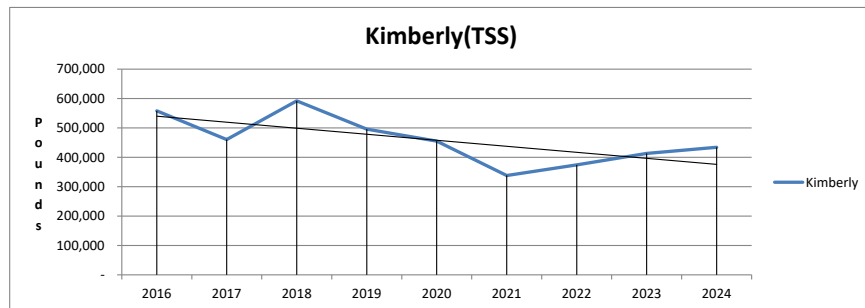
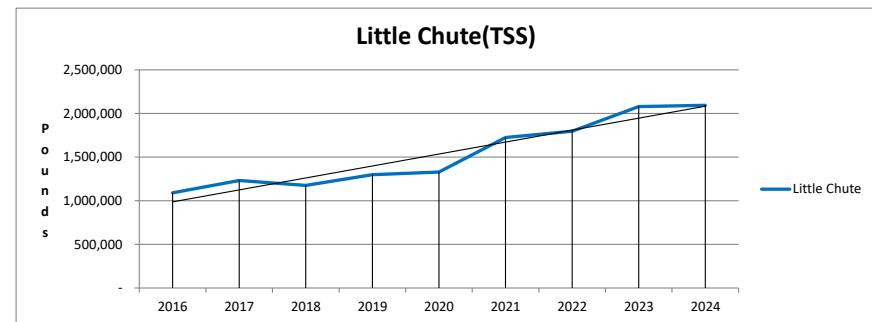
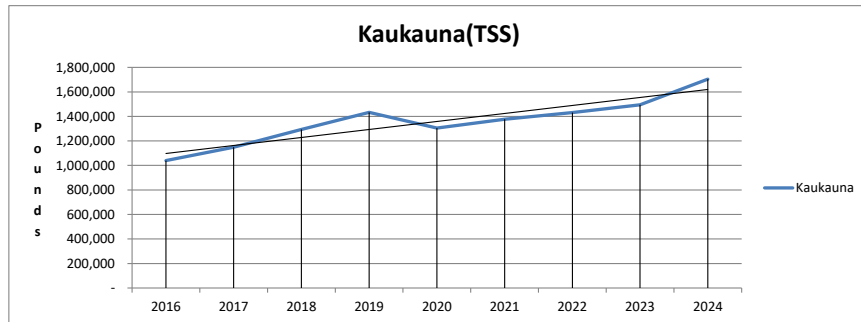
	2016	2017	2018	2019	2020	2021	2022	2023	2024
Kaukauna	913,981	1,012,966	1,107,495	1,304,550	1,198,554	1,376,217	1,424,535	1,479,739	1,499,891
Little Chute	998,017	1,105,170	1,500,818	1,768,228	1,650,665	2,403,909	2,711,648	2,540,846	2,061,736
Kimberly	499,892	440,561	495,597	526,203	470,945	355,306	391,308	413,571	427,019
Combined Locks	219,359	258,495	224,502	303,500	282,853	264,721	342,307	374,538	388,208
Darboy	777,435	860,793	862,874	1,100,119	1,086,846	1,115,624	1,170,811	1,282,906	1,151,712



Community TSS Loadings

Total Pounds

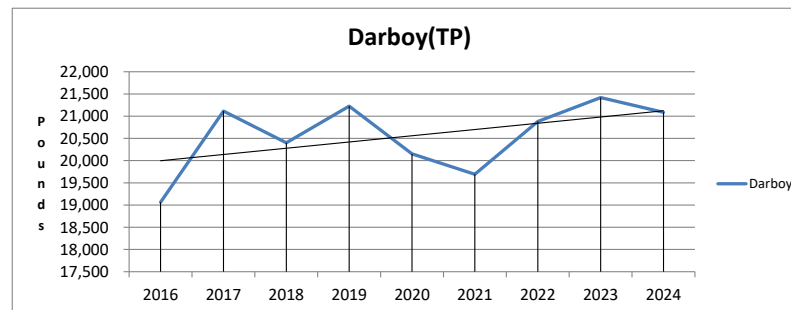
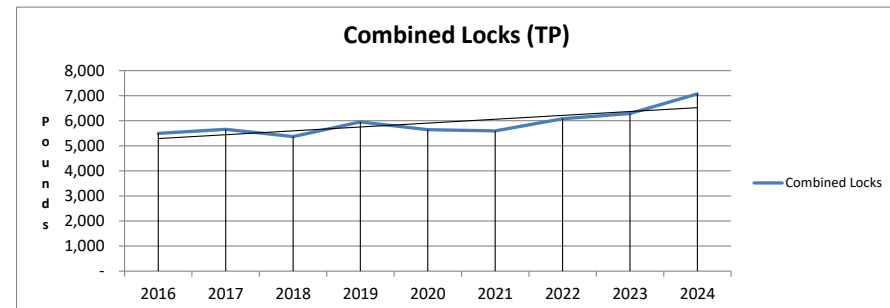
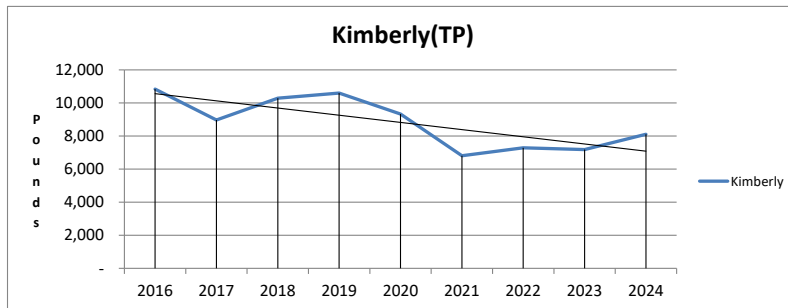
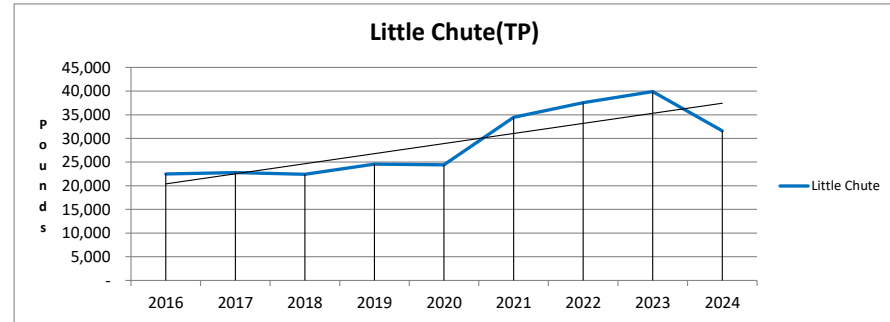
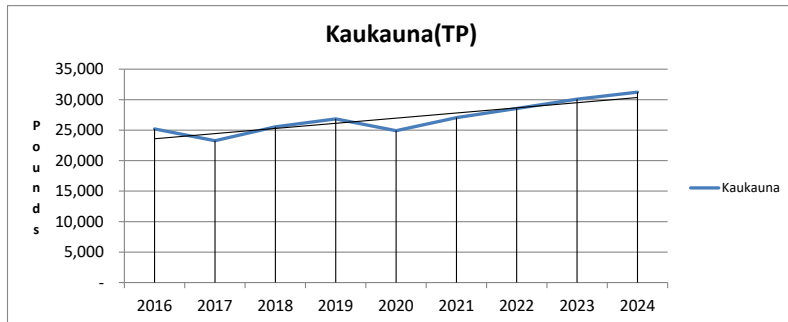
	2016	2017	2018	2019	2020	2021	2022	2023	2024
Kaukauna	1,039,601	1,148,678	1,293,092	1,432,870	1,305,687	1,376,736	1,431,671	1,494,803	1,703,978
Little Chute	1,090,645	1,231,652	1,176,158	1,297,898	1,328,170	1,723,332	1,796,923	2,078,975	2,093,631
Kimberly	557,869	460,705	592,013	495,982	454,970	338,033	374,445	413,239	434,320
Combined Locks	232,175	277,459	256,972	307,915	284,764	257,842	367,383	387,411	476,673
Darboy	863,012	972,689	909,522	1,093,526	1,119,227	1,071,735	1,132,641	1,210,457	1,221,621



Community TP Loadings

Total Pounds

	2016	2017	2018	2019	2020	2021	2022	2023	2024
Kaukauna	25,209	23,267	25,539	26,855	24,909	27,041	28,542	30,083	31,230
Little Chute	22,504	22,788	22,425	24,586	24,427	34,478	37,558	39,894	31,589
Kimberly	10,838	8,968	10,291	10,603	9,331	6,809	7,284	7,181	8,110
Combined Locks	5,499	5,657	5,370	5,950	5,642	5,595	6,082	6,289	7,071
Darboy	19,063	21,114	20,402	21,226	20,151	19,693	20,879	21,418	21,087

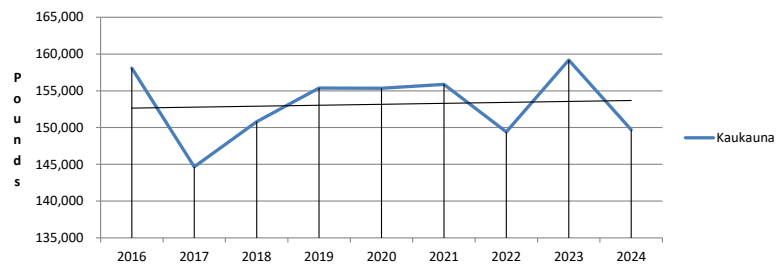


Community NH3 Loadings

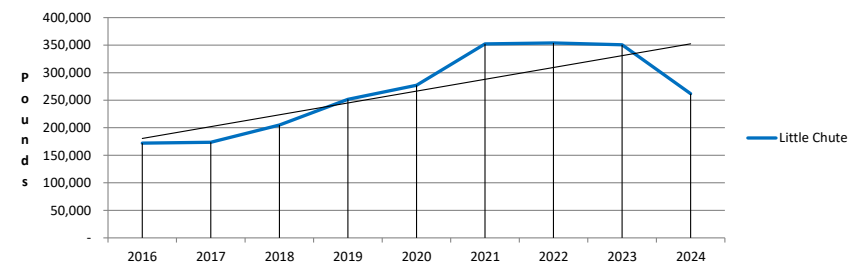
Total Pounds

	2016	2017	2018	2019	2020	2021	2022	2023	2024
Kaukauna	158,086	144,663	150,810	155,382	155,359	155,868	149,423	159,184	149,709
Little Chute	172,079	173,759	204,901	251,533	277,286	352,173	353,998	350,645	261,956
Kimberly	52,885	45,181	50,243	53,695	47,257	35,798	37,792	38,906	40,167
Combined Locks	31,946	29,815	30,633	33,076	29,849	32,676	31,408	34,549	35,894
Darboy	100,100	108,147	109,391	108,409	101,494	103,181	105,493	111,243	107,991

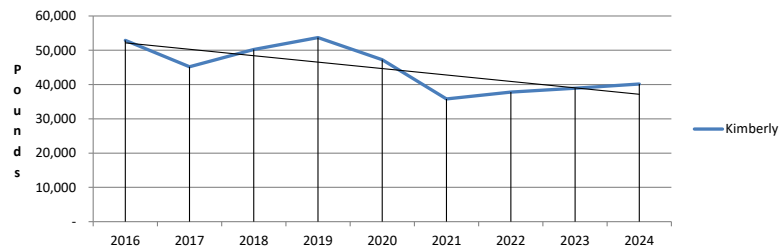
Kaukauna(NH3)



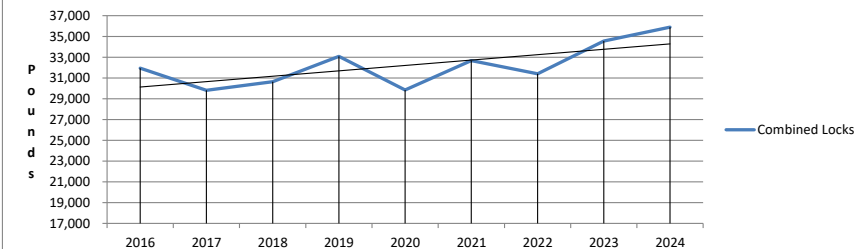
Little Chute(NH3)



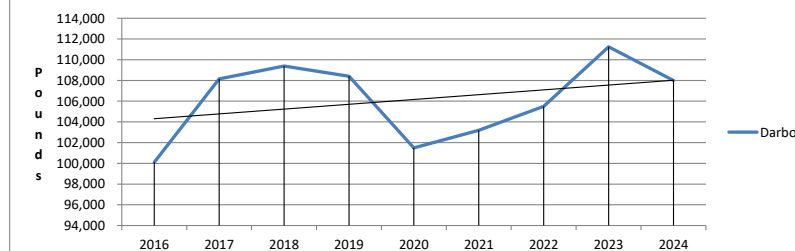
Kimberly(NH3)



Combined Locks (NH3)



Darboy(NH3)



Community Chloride Loadings

Total Pounds

	2016	2017	2018	2019	2020	2021	2022	2023	2024
Kaukauna	2,801,022	2,760,998	2,997,905	3,528,260	3,198,572	3,390,224	3,485,276	3,391,307	3,209,570
Little Chute	2,881,758	2,935,777	2,928,684	3,630,435	3,425,867	4,518,386	5,159,703	6,749,809	7,262,579
Kimberly	1,479,190	1,583,825	1,359,331	2,113,584	1,773,179	1,452,750	1,581,261	1,627,540	1,537,807
Combined Locks	181,427	207,870	172,836	273,864	198,898	242,612	261,259	250,058	306,634
Darboy	1,402,070	1,634,035	1,709,147	1,915,269	1,551,846	1,435,169	1,600,197	1,568,356	1,367,648

