

HEADWORKS INFLUENT METERS

(LASER)

(ULTRASONIC)

MONTH: October

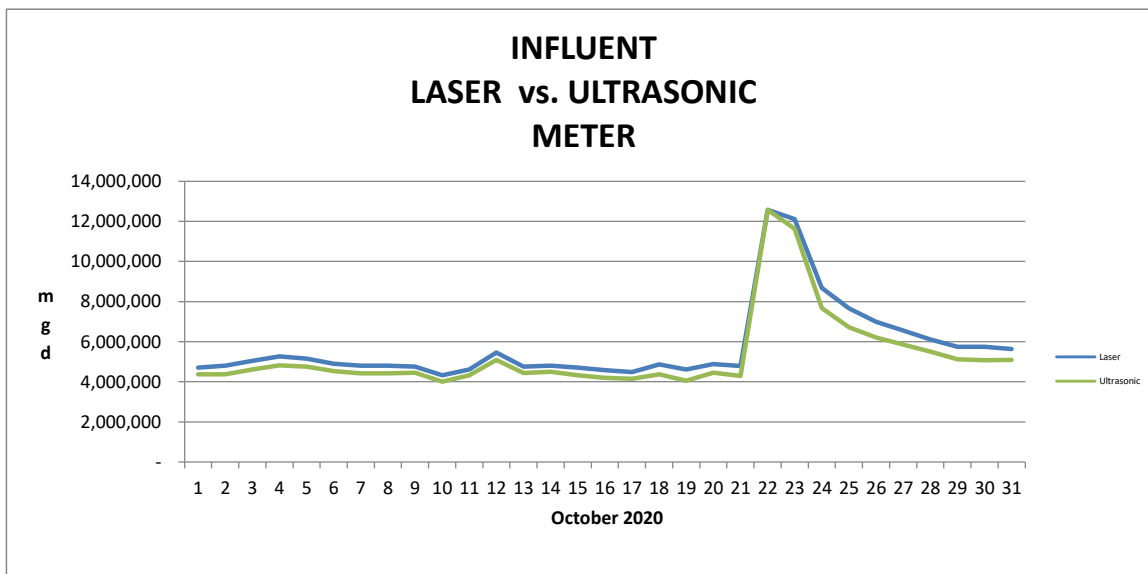
DATE	FLOW GALLONS	FLOW GALLONS	% DIFF
1	4,711,000	4,369,000	7.26
2	4,796,000	4,370,000	8.88
3	5,044,000	4,606,000	8.68
4	5,266,000	4,818,000	8.51
5	5,150,000	4,760,000	7.57
6	4,904,000	4,533,000	7.57
7	4,797,000	4,422,000	7.82
8	4,807,000	4,424,000	7.97
9	4,762,000	4,448,000	6.59
10	4,317,000	4,000,000	7.34
11	4,616,000	4,326,000	6.28
12	5,454,000	5,091,000	6.66
13	4,751,000	4,436,000	6.63
14	4,805,000	4,496,000	6.43
15	4,703,000	4,327,000	7.99
16	4,584,000	4,195,000	8.49
17	4,480,000	4,151,000	7.34
18	4,871,000	4,374,000	10.20
19	4,612,000	4,054,000	12.10
20	4,880,000	4,445,000	8.91
21	4,780,000	4,288,000	10.29
22	12,579,000	12,572,000	0.06
23	12,122,000	11,633,000	4.03
24	8,680,000	7,679,000	11.53
25	7,653,000	6,712,000	12.30
26	6,987,000	6,212,000	11.09
27	6,563,000	5,862,000	10.68
28	6,112,000	5,501,000	10.00
29	5,753,000	5,128,000	10.86
30	5,750,000	5,069,000	11.84
31	5,635,000	5,098,000	9.53

178,924,000

164,399,000

DIFF=

14,525,000



HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT

*** PLANT FLOW vs. METER STATIONS FLOW ***

MONTH: October

YEAR: 2020

DATE	(LASER) PLANT FLOW GALLONS	(LASER) METER STATIONS FLOW GALLONS	(LASER) PLANT FLOW MINUS HAULERS' GALLONS	PLANT vs. M.STATIONS DIFFERENCE GALLONS	
1	4,711,000	4,435,100	4,705,100	270,000	5.74 % DIFFERENCE
2	4,796,000	4,642,000	4,766,900	124,900	2.62 % DIFFERENCE
3	5,044,000	4,869,500	5,044,000	174,500	3.46 % DIFFERENCE
4	5,266,000	5,149,000	5,266,000	117,000	2.22 % DIFFERENCE
5	5,150,000	4,942,500	5,121,510	179,010	3.50 % DIFFERENCE
6	4,904,000	4,665,700	4,904,000	238,300	4.86 % DIFFERENCE
7	4,797,000	4,527,000	4,792,000	265,000	5.53 % DIFFERENCE
8	4,807,000	4,536,300	4,803,000	266,700	5.55 % DIFFERENCE
9	4,762,000	4,394,500	4,758,120	363,620	7.64 % DIFFERENCE
10	4,317,000	3,983,700	4,317,000	333,300	7.72 % DIFFERENCE
11	4,616,000	4,259,400	4,616,000	356,600	7.73 % DIFFERENCE
12	5,454,000	5,247,000	5,442,500	195,500	3.59 % DIFFERENCE
13	4,751,000	4,569,000	4,742,440	173,440	3.66 % DIFFERENCE
14	4,805,000	4,484,000	4,797,000	313,000	6.52 % DIFFERENCE
15	4,703,000	4,386,300	4,694,740	308,440	6.57 % DIFFERENCE
16	4,584,000	4,254,200	4,575,000	320,800	7.01 % DIFFERENCE
17	4,480,000	4,154,500	4,480,000	325,500	7.27 % DIFFERENCE
18	4,871,000	4,515,000	4,871,000	356,000	7.31 % DIFFERENCE
19	4,612,000	4,410,500	4,573,550	163,050	3.57 % DIFFERENCE
20	4,880,000	4,665,500	4,875,240	209,740	4.30 % DIFFERENCE
21	4,780,000	5,095,400	4,775,570	(319,830)	(6.70) % DIFFERENCE
22	12,579,000	13,379,000	12,569,980	(809,020)	(6.44) % DIFFERENCE
23	12,122,000	13,261,400	12,109,200	(1,152,200)	(9.52) % DIFFERENCE
24	8,680,000	9,505,200	8,680,000	(825,200)	(9.51) % DIFFERENCE
25	7,653,000	8,378,800	7,653,000	(725,800)	(9.48) % DIFFERENCE
26	6,987,000	7,521,800	6,957,240	(564,560)	(8.11) % DIFFERENCE
27	6,563,000	7,074,600	6,551,500	(523,100)	(7.98) % DIFFERENCE
28	6,112,000	6,469,200	6,112,000	(357,200)	(5.84) % DIFFERENCE
29	5,753,000	6,084,400	5,748,380	(336,020)	(5.85) % DIFFERENCE
30	5,750,000	6,186,400	5,744,690	(441,710)	(7.69) % DIFFERENCE
31	5,635,000	6,058,900	5,635,000	(423,900)	(7.52) % DIFFERENCE
TOTAL:	178,924,000	180,105,800	178,681,660	(1,424,140)	-0.80 %
AVERAGE:	5,776,300	5,809,865		(33,341)	
MAXIMUM:	12,579,000	13,379,000			
MINIMUM:					

ULTRASONIC INFLUENT TOTAL FLOW vs LASER INFLUENT TOTAL FLOW

	MILLION GALLONS		MILLION GALLONS
ULTRASONIC	164,399,000		
		Difference	
		=	14,525,000
LASER	178,924,000		

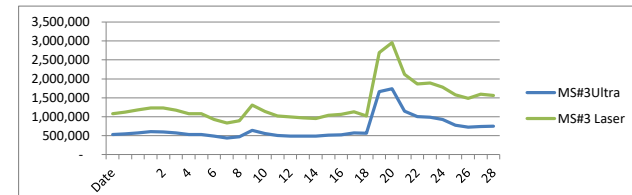
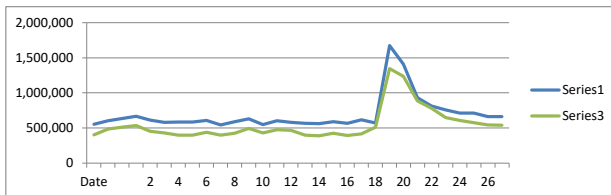
LITTLE CHUTE (October 2020)

		MS#2		
	Ultrasonic		Laser	%
Date	Gallons		Gallons	Diff
1	553,000		404,000	26.94
2	604,000		485,000	19.70
3	636,000		510,000	19.81
4	665,000		533,000	19.85
5	612,000		451,000	26.31
6	582,000		429,000	26.29
7	584,000		395,000	32.36
8	585,000		395,000	32.48
9	606,000		437,000	27.89
10	545,000		397,000	27.16
11	589,000		424,000	28.01
12	631,000		491,000	22.19
13	549,000		427,000	22.22
14	604,000		476,000	21.19
15	581,000		465,000	19.97
16	567,000		399,000	29.63
17	561,000		390,000	30.48
18	591,000		424,000	28.26
19	564,000		394,000	30.14
20	618,000		416,000	32.69
21	571,000		511,000	10.51
22	1,673,000		1,345,000	19.61
23	1,409,000		1,238,000	12.14
24	930,000		887,000	4.62
25	813,000		782,000	3.81
26	757,000		647,000	14.53
27	714,000		608,000	14.85
28	712,000		574,000	19.38
29	663,000		541,000	18.40
30	661,000		538,000	18.61
31	665,000		527,000	
TOTAL	21,395,000		16,940,000	

		MS#3		
	Ultrasonic		Laser	%
Date	Gallons		Gallons	Diff
1	533,000		1,080,000	(102.63)
2	548,000		1,124,000	(105.11)
3	577,000		1,182,000	(104.85)
4	604,000		1,234,000	(104.30)
5	603,000		1,230,000	(103.98)
6	575,000		1,172,000	(103.83)
7	536,000		1,081,000	(101.68)
8	536,000		1,083,000	(102.05)
9	486,000		927,000	(90.74)
10	437,000		840,000	(92.22)
11	472,000		899,000	(90.47)
12	641,000		1,309,000	(104.21)
13	558,000		1,140,000	(104.30)
14	510,000		1,018,000	(99.61)
15	490,000		997,000	(103.47)
16	492,000		974,000	(97.97)
17	487,000		952,000	(95.48)
18	513,000		1,035,000	(101.75)
19	520,000		1,067,000	(105.19)
20	570,000		1,129,000	(98.07)
21	566,600		1,023,000	(80.55)
22	1,661,000		2,691,000	(62.01)
23	1,740,000		2,958,000	(70.00)
24	1,148,000		2,118,000	(84.49)
25	1,004,000		1,868,000	(86.06)
26	987,000		1,892,000	(91.69)
27	932,000		1,778,000	(90.77)
28	777,000		1,577,000	(102.96)
29	724,000		1,484,000	(104.97)
30	746,000		1,592,000	(113.40)
31	750,000		1,560,000	
TOTAL	21,723,600		42,014,000	

Avg	Avg Daily	Avg	
690,161	DIFF	546,452	22.001
	143,710		

Avg	Avg Daily	Avg	
700,761	DIFF	1,355,290	(96.628)
	(654,529)		



KIMBERLY

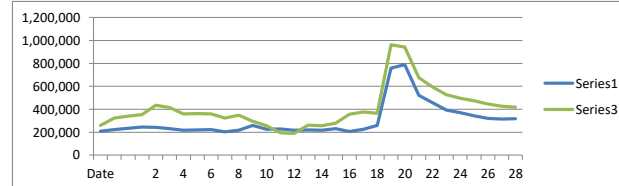
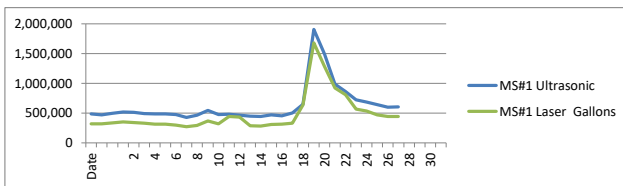
MS#1				
	Ultrasonic		Laser	
Date	Gallons		Gallons	
			%	
			Diff	
1	485,000		320,000	34.02
2	471,000		321,000	31.85
3	496,000		338,000	31.85
4	519,000		353,000	31.98
5	513,000		344,000	32.94
6	489,000		328,000	32.92
7	485,000		317,000	34.64
8	486,000		317,000	34.77
9	476,000		301,000	36.76
10	428,000		273,000	36.21
11	463,000		292,000	36.93
12	548,000		369,000	32.66
13	478,000		322,000	32.64
14	482,000		445,000	7.68
15	463,000		435,000	6.05
16	450,000		289,000	35.78
17	445,000		283,000	36.40
18	469,000		308,000	34.33
19	456,000		312,000	31.58
20	500,000		331,000	33.80
21	649,000		637,000	1.85
22	1,904,000		1,677,000	11.92
23	1,495,000		1,285,000	14.05
24	987,000		920,000	6.79
25	863,000		811,000	6.03
26	724,000		566,000	21.82
27	684,000		532,000	22.22
28	640,000		470,000	26.56
29	597,000		443,000	25.80
30	605,000		443,000	26.78
31	608,000		434,000	
TOTAL	19,358,000		14,816,000	

COMBINED LOCKS

MS#4				
	Ultrasonic		Laser	
Date	Gallons		Gallons	
			%	
			Diff	
1	208,000		260,000	(25.00)
2	223,000		324,000	(45.29)
3	235,000		340,000	(44.68)
4	246,000		355,000	(44.31)
5	241,000		435,000	(80.50)
6	230,000		415,000	(80.43)
7	218,000		360,000	(65.14)
8	219,000		361,000	(64.84)
9	224,000		358,000	(59.82)
10	202,000		324,000	(60.40)
11	218,000		347,000	(59.17)
12	259,000		295,000	(13.90)
13	226,000		257,000	(13.72)
14	227,000		194,000	14.54
15	218,000		190,000	12.84
16	221,000		262,000	(18.55)
17	218,000		256,000	(17.43)
18	230,000		279,000	(21.30)
19	205,000		356,000	(73.66)
20	225,000		376,000	(67.11)
21	258,000		366,000	(41.86)
22	758,000		963,000	(27.04)
23	790,000		943,000	(19.37)
24	522,000		675,000	(29.31)
25	456,000		595,000	(30.48)
26	392,000		528,000	(34.69)
27	370,000		496,000	(34.05)
28	342,000		473,000	(38.30)
29	319,000		446,000	(39.81)
30	315,000		427,000	(35.56)
31	317,000		418,000	
TOTAL	9,332,000		12,674,000	

Avg	Avg Daily	Avg	
624,452	DIFF	477,935	26.32
	146,516		

Avg	Avg Daily	Avg	
301,032	DIFF	408,839	(38.612)
	(107,806)		



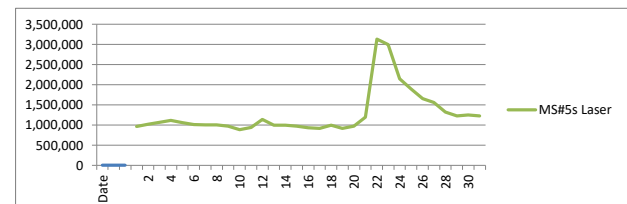
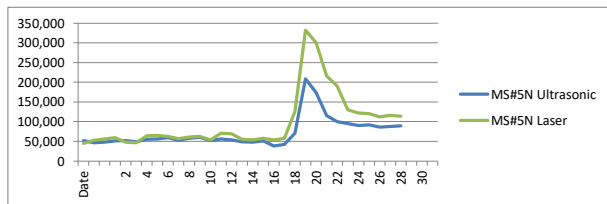
KAUKAUNA (October 2020)

Date	MS#5N		% Diff
	Ultrasonic Gallons	Laser Gallons	
1	52,000	45,000	13.46
2	46,000	53,000	(15.22)
3	48,000	56,000	(16.67)
4	51,000	59,000	(15.69)
5	52,000	48,000	7.69
6	49,000	46,000	6.12
7	55,000	64,000	(16.36)
8	56,000	65,000	(16.07)
9	59,000	63,000	(6.78)
10	53,000	57,000	(7.55)
11	58,000	61,000	(5.17)
12	60,000	63,000	(5.00)
13	52,000	54,000	(3.85)
14	56,000	71,000	(26.79)
15	54,000	69,000	(27.78)
16	49,000	55,000	(12.24)
17	48,000	54,000	(12.50)
18	51,000	58,000	(13.73)
19	38,000	54,000	(42.11)
20	42,000	58,000	(38.10)
21	71,000	126,000	(77.46)
22	209,000	332,000	(58.85)
23	174,000	301,000	(72.99)
24	115,000	216,000	(87.83)
25	100,000	190,000	(90.00)
26	95,000	130,000	(36.84)
27	90,000	122,000	(35.56)
28	92,000	120,000	(30.43)
29	86,000	112,000	(30.23)
30	88,000	116,000	(31.82)
31	89,000	114,000	
TOTAL	2,238,000	3,032,000	

Date	MS#5s		% Diff
	Ultrasonic Gallons	Laser Gallons	
1	Meter Failed.	961,000	
2	Meter Failed.	1,015,000	
3	Meter Failed.	1,067,000	
4	Meter Failed.	1,114,000	
5	Meter Failed.	1,058,000	
6	Meter Failed.	1,007,000	
7	Meter Failed.	998,000	
8	Meter Failed.	1,001,000	
9	Meter Failed.	970,000	
10	Meter Failed.	879,000	
11	Meter Failed.	940,000	
12	Meter Failed.	1,137,000	
13	Meter Failed.	990,000	
14	Meter Failed.	992,000	
15	Meter Failed.	971,000	
16	Meter Failed.	933,000	
17	Meter Failed.	911,000	
18	Meter Failed.	991,000	
19	Meter Failed.	916,000	
20	Meter Failed.	970,000	
21	Meter Failed.	1,190,000	
22	Meter Failed.	3,133,000	
23	Meter Failed.	2,998,000	
24	Meter Failed.	2,147,000	
25	Meter Failed.	1,893,000	
26	Meter Failed.	1,649,000	
27	Meter Failed.	1,556,000	
28	Meter Failed.	1,315,000	
29	Meter Failed.	1,226,000	
30	Meter Failed.	1,246,000	
31	Meter Failed.	1,221,000	
TOTAL		39,395,000	

Avg	Avg Daily	Avg	
72,194	DIFF	97,806	(26.877)
	(25,613)		

Avg	Avg Daily	Avg	
#DIV/0!	DIFF	1,270,806	
	#DIV/0!		



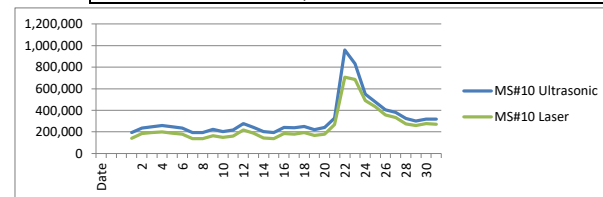
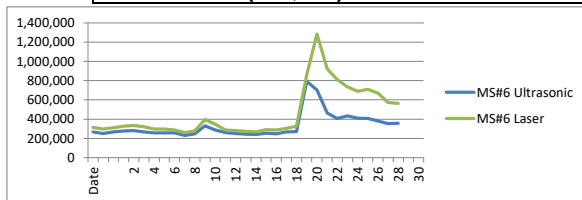
KAUKAUNA (October 2020)

MS#6				
	Ultrasonic		Laser	
Date	Gallons		Gallons	%
				Diff
1	267,000		313,000	(17.23)
2	252,000		297,000	(17.86)
3	266,000		312,000	(17.29)
4	278,000		326,000	(17.27)
5	281,000		335,000	(19.22)
6	267,000		319,000	(19.48)
7	258,000		298,000	(15.50)
8	259,000		298,000	(15.06)
9	256,000		287,000	(12.11)
10	230,000		260,000	(13.04)
11	249,000		278,000	(11.65)
12	331,000		397,000	(19.94)
13	288,000		346,000	(20.14)
14	260,000		288,000	(10.77)
15	251,000		282,000	(12.35)
16	243,000		275,000	(13.17)
17	240,000		269,000	(12.08)
18	253,000		292,000	(15.42)
19	246,000		287,000	(16.67)
20	269,000		303,000	(12.64)
21	271,000		326,000	(20.30)
22	793,000		859,000	(8.32)
23	703,000		1,286,000	(82.93)
24	464,000		921,000	(98.49)
25	406,000		812,000	(100.00)
26	434,000		735,000	(69.35)
27	409,000		691,000	(68.95)
28	407,000		711,000	(74.69)
29	379,000		670,000	(76.78)
30	355,000		574,000	(61.69)
31	357,000		562,000	
TOTAL	10,222,000		14,209,000	

MS#10				
	Ultrasonic		Laser	
Date	Gallons		Gallons	%
				Diff
1	193,000		140,000	27.46
2	235,000		184,000	21.70
3	248,000		193,000	22.18
4	259,000		201,000	22.39
5	247,000		188,000	23.89
6	235,000		179,000	23.83
7	194,000		137,000	29.38
8	195,000		138,000	29.23
9	224,000		165,000	26.34
10	202,000		149,000	26.24
11	218,000		160,000	26.61
12	277,000		217,000	21.66
13	241,000		189,000	21.58
14	203,000		143,000	29.56
15	195,000		139,000	28.72
16	241,000		184,000	23.65
17	238,000		179,000	24.79
18	251,000		195,000	22.31
19	221,000		168,000	23.98
20	242,000		178,000	26.45
21	328,000		269,000	17.99
22	960,000		707,000	26.35
23	831,000		686,000	17.45
24	549,000		491,000	10.56
25	479,000		433,000	9.60
26	403,000		356,000	11.66
27	381,000		334,000	12.34
28	323,000		275,000	14.86
29	301,000		259,000	13.95
30	318,000		277,000	12.89
31	319,000		271,000	
TOTAL	9,751,000		7,784,000	

Avg	Avg Daily	Avg	
329,742	DIFF	458,355	(32.346)
	(128,613)		

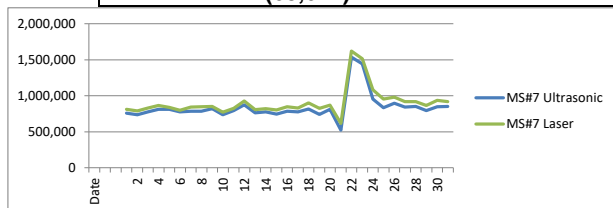
Avg	Avg Daily	Avg	
314,548	DIFF	250,433	21.653
	64,115		



DARBOY (October 2020)

MS#7				
	Ultrasonic		Laser	
Date	Gallons		Gallons	%
				Diff
1	759,000		814,000	(7.246)
2	738,000		790,000	(7.046)
3	778,000		830,000	(6.684)
4	813,000		867,000	(6.642)
5	814,000		838,000	(2.948)
6	775,000		798,000	(2.968)
7	787,000		845,000	(7.370)
8	788,000		847,000	(7.487)
9	820,000		854,000	(4.146)
10	737,000		774,000	(5.020)
11	797,000		828,000	(3.890)
12	875,000		928,000	(6.057)
13	763,000		808,000	(5.898)
14	776,000		821,000	(5.799)
15	746,000		804,000	(7.775)
16	785,000		850,000	(8.280)
17	777,000		830,000	(16.216)
18	818,000		903,000	(10.391)
19	742,000		825,000	(11.186)
20	814,000		872,000	(7.125)
21	525,000		615,000	(17.143)
22	1,538,000		1,620,000	(5.332)
23	1,445,000		1,513,000	(4.706)
24	954,000		1,083,000	(13.522)
25	834,000		955,000	(14.508)
26	895,000		980,000	(9.497)
27	845,000		920,000	(8.876)
28	851,000		920,000	(8.108)
29	793,000		866,000	(9.206)
30	847,000		938,000	(10.744)
31	852,000		919,000	
TOTAL	26,081,000		28,055,000	

Avg	Avg Daily	Avg	
841,323	DIFF	905,000	(8.061)
	(63,677)		



September Total Flows

Kaukauna*		% Diff
Laser	15,172,000	(10.93)
Ultrasonic	16,830,000	

Darboy		
Laser	24,909,000	4.34
Ultrasonic	23,827,000	

Combined Locks		
Laser	10,163,000	29.89
Ultrasonic	7,125,000	

Kimberly		
Laser	10,667,000	(48.55)
Ultrasonic	15,846,000	

Little Chute		
Laser	55,577,000	34.41
Ultrasonic	36,454,000	

October Total Flows

Kaukauna*		% Diff
Laser	25,025,000	11.24
Ultrasonic	22,211,000	

Darboy		
Laser	28,055,000	7.04
Ultrasonic	26,081,000	

Combined Locks		
Laser	12,674,000	26.37
Ultrasonic	9,332,000	

Kimberly		
Laser	14,816,000	(30.66)
Ultrasonic	19,358,000	

Little Chute		
Laser	58,954,000	26.86
Ultrasonic	43,118,600	

* MS 5 South not included