

Solid Waste Division – 2010 Annual Report

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The Dunn County Solid Waste and Recycling Management Board was created during 1992 by the Dunn County Board of Supervisors. The Board of Supervisors formed the Solid Waste and Recycling Management Board to establish and operate a Solid Waste and Recycling Management System for the County of Dunn. Through the Dunn County Solid Waste Division (DCSWD) the Solid Waste and Recycling Management Board has endeavored to provide efficient and economical waste management and recycling programs for member municipalities, public, businesses, and the waste haulers.

During 1998, the Dunn County Solid Waste and Recycling Management Board was recreated by the Dunn County Board of Supervisors. The Solid Waste and Recycling Management Board maintained most of its management authority, including the ability to contract for services, accept grants, assess fees, and the ability to create, and maintain reserves for future capital outlays for solid waste and recycling disposal facilities and equipment.

The Solid Waste and Recycling Management Board lost its standing committee status in 1998, and the standing committee responsibilities were given to the Planning, Resources & Development Committee.

Solid Waste and Recycling Management Board members: Front L-R: Ron Welsch, Pilar Gerasimo, Greg Bakke, Back L-R: Dale Harschlip, Richard Johnson, David Bartlett, Herb Dow (retired from Board), Donald Miller & Susan Beety. Not pictured: Ray Cherney.



Solid Waste Division Highlights

Pandemic Plan for the Solid Waste Division Operation Finalized



The most likely public health emergency the residents in Dunn County may experience is a pandemic influenza, where a brand new strain of the influenza virus spreads rapidly around the world and where there is low human immunity and high human-to-human contagiousness. The Solid Waste Division Pandemic Plan provides general guidance for planning and responding to the threat of, or actual outbreak of, pandemic influenza.

A pandemic outbreak threatens human resources by removing essential personnel from the workplace for extended periods of time. Accordingly, the Pandemic Plan addresses the threat of a pandemic outbreak, protecting the health and safety of personnel is the focused goal in order to continue to operate effectively and provide essential services during a pandemic outbreak. In the event a pandemic situation would occur, the Solid Waste Division will follow the guidelines in the Pandemic Plan to ensure the continuation of waste management activities as effectively as possible, while protecting the health of the employees and the general public.

Investigate the Advantages/Disadvantages of Roadside Collection of Recyclables in Rural Dunn County

Currently, Dunn County rural residents bring their solid waste and recyclables to the Dunn County Transfer Station & Recycling Center, or to one of seven full service area Collection Stations, or the one Recycling Drop Off Center. The objective of the research project was to partner with the University of Wisconsin-Stout and the University of Wisconsin System to conduct a cost-benefit analysis of the current Dunn County rural collection system compared to a potential rural roadside collection system. Results of this study indicate the cost of the proposed rural roadside collection system (\$71.60/person) would be more expensive compared to the current collection site system (\$23.40/person). However, estimated fuel consumption and CO2 emissions may be slightly lower with a rural roadside collection system; these values could be improved if compressed natural gas packer trucks were used, rather than new diesel trucks, which have a fuel consumption of 2.5 mpg.



The Solid Waste Division has concluded that Dunn County should continue to offer the Collection Stations to our rural residents and not contract for roadside collection of solid waste and recyclables in the Dunn County rural communities.

Purchase the Containers for the Transfer Station Public Drop-Off Area

Trash and recycling containers were designed for the Public Drop-Off Area in an effort to control cost at the Transfer Station. The Solid Waste Division designed, tested, and modified a prototype container for a few months before the remaining 17 containers were built. The containers can be safely transported and dumped at the Transfer Station using the existing wheel loader, eliminating the need to purchase a roll-off truck and contracting with a hauling company to dump our trash and recyclables.



Hazardous Waste Collection Program Returns to Dunn County

Dunn County residents had the opportunity to dispose of hazardous waste in Dunn County free of charge. Businesses also participated but had to pay the total cost of the material. 226 households, 24 farms and 18 businesses participated. 20,328 pounds of hazardous waste was collected during the events.

Year-Round Medication Drop Off

A permanent drop-off location for all medications continues to be available year round at the Sheriff's Office. The Solid Waste Division provides the promotion and the incineration of the medications along with the funding.



Electronics Recycling

Starting in January of 2010, information was gathered to prepare a Request for Information (RFI) to send out to all registered electronics recyclers with the DNR. While the response to the RFI was not required and did not result in any awarded contract, the two responses were very helpful while writing the Request for Proposal (RFP). After receiving four RFP responses, the awarded electronics recycling contract was given to Materials Processing Corporation, out of Mendota Heights, MN. MPC now has been collecting our electronics (and neighboring counties under the same contract) since July of 2010. This has been not only a significant cost savings; it has also been a source of revenue.



The above photo on the left is taken from a tour of MPC with neighboring counties' Solid Waste and Recycling staff. The electronics photo on the right is of an electronic recycling roll-off at a Dunn County Collection Station.

Maintaining Existing Projects

Creating an electronics contract was the primary focus for the Dunn County Recycling Assistant, but maintaining the Convenience Stores, Apartments and Event Recycling programs were also of high priority. With help from a summer intern, all convenience stores, apartments and public seeking event recycling bins were accommodated and documented. Apartments had not been visited since 2006, which led to Notice of Violation letters sent to non-compliant landlords. Currently, all Dunn County convenience stores and apartment buildings have recycling available.



Solid Waste Division 2011 Future Projects

- Investigate the best method of collecting and processing recyclable in Dunn County
- Research and draft a uniform, efficient Collection Station design
- Finish the compactor lockout/tagout procedures
- Draft the RFP for Hauling of solid waste and recyclables from the area Collection Stations and Transfer Station and for the disposal of the solid waste and possibly for the processing of recyclables
- Continue to draft the updated Solid Waste & Recycling Ordinance
- Continue to find the best markets (stable and best paying) for our recyclables
- Continue to work with the Schools on their recycling programs
- Maintain the recycling program for convenience gas station stores and apartments
- Maintain the Event Recycling Program

Dunn County Revenue/Tonnage Comparison (Net Revenue Starting in 2002)

SOLID WASTE	2005	2006	2007	2008	2009	2010
TRANSFER STATION	17339.45	17198.32	19355.76	20969.49	17626.21	17828.90
COLLECTION SITES	1899.79	1994.36	2104.33	2007.60	2206.93	2290.59
C & D Collection Sites	745.22	663.33	648.10	634.51	641.02	569.63
RIDGELAND	96.50	90.64	84.44	74.87	82.15	95.72
TOTAL (TONS)	20080.96	19946.65	22192.63	23686.47	20556.31	20784.84
BUSINESS	16201.56	16113.82	17912.68	19489.43	16698.02	16601.30
HOUSEHOLD WASTE TS	1137.89	1084.50	1443.08	1480.06	928.19	1227.60

Tipping Fee

2005	2006	2007	2008	2009	2010
\$138,355.04	\$145,510.56	\$23,870.93	\$42,996.12	\$83,602.49	\$93,702.53
(\$276,552.52)	(\$143,562.18)	(\$155,756.37)	(\$162,164.24)	(\$228,660.40)	(\$207,037.60)
(\$24,115.13)			(\$21,038.64)	(\$27,911.83)	(19,331.56)

RECYCLING	2005	2006	2007	2008	2009	2010
CARDBOARD	937.23	856.02	1029.62	1002.04	875.58	841.35
NEWSPAPER	531.74	552.34	612.16	684.05	479.49	517.16
OFFICE PAPER	0	0	0	0	9.28	0.00
MAGAZINES	0	0	0	0	0	0
TIN	100.32	85.01	96.21	89.59	87.48	92.73
ALUM. CANS	23.61	15.85	12.22	11.07	12.21	15.20
HDPE PLASTIC	55.00	67.31	55.45	57.23	77.32	63.08
PETE PLASTIC	54.90	69.95	70.04	64.00	89.46	77.23
CLEAR GLASS	236.37	273.30	240.57	242.61	240.55	236.94
GREEN GLASS	51.34	46.81	50.52	51.81	53.97	42.17
BROWN GLASS	238.52	257.70	248.19	254.88	231.12	250.89
TOTAL (TONS)	2229.04	2224.29	2414.95	2457.28	2156.46	2136.75

2005	2006	2007	2008	2009	2010
\$72,768.21	67,074.17	\$116,986.29	\$96,902.78	\$53,030.75	\$113,192.34
\$43,133.45	38,512.49	\$60,614.50	\$77,453.87	\$27,375.30	\$45,043.68
0	1,581.13	0	0	0	0
0	0	0	0	0	0
\$10,569.97	11,210.59	\$15,958.15	\$17,736.02	\$8,473.41	\$20,308.99
\$24,106.18	26,572.00	\$21,304.40	\$15,969.57	\$12,777.36	\$21,140.96
\$28,987.06	\$30,003.92	\$20,979.36	\$28,616.94	\$20,473.40	\$29,067.05
\$18,216.83	\$14,246.49	\$16,098.52	\$16,599.28	\$14,889.10	\$25,638.80
\$756.10	\$6,049.21	\$7,112.18	\$6,259.52	\$9,773.77	\$5,404.92
(\$254.66)	(\$250.63)	(\$1,744.79)	(\$2,475.21)	(\$711.91)	(\$1,136.93)
(\$291.43)	(\$2,548.75)	(\$4,327.35)	(\$2,338.15)	(\$1,672.79)	(\$852.38)
\$197,991.71	192,450.62	\$252,981.26	\$254,724.62	\$144,408.39	\$257,807.43

BATTERIES (Tons)	7	8	9	0	2.50	6.89
SCRAP METAL (Tons)	543	482	469.18	376.49	389.23	392.26
OIL (2009 Later - Tons)	14945	14655	13360	11280	39.42	40.30
APPLIANCE (#)	1909	1955.00	646	487	560	519
AIR CONDS. (#)	122	135	180	101	106	85
TIRES (Tons)	90.45	90	130.46	161.51	146.93	184.38
YARD WASTE	0	0	0	0	0	0
ANTIFREEZE (2009-Tons)	250	305	726	470	1.32	1.67
OIL FILTERS (2009 - Tons)	370	903	960	1049	5.99	6.06
INK JET CARTRIDGES	531	355	69	0	0	0
BATTERY BOXES (Tons)	6	10	17	16	0.71	0.22
CELL PHONES	253	0	261	96	35	202
SHARP CONT (Tons)	9	13	127	100	0.65	0.79
FLUORESCENT BULBS	1773	7152	5175	10649	3.72	3.95
ELECTRONICS		1300	1520	1665	2.36	85.08

					\$3,665.40
\$30,398.74	\$67,618.77	\$57,802.66	\$83,083.02	\$32,888.19	\$65,358.30
\$3,415.55	\$7,951.80	\$7,209.25	\$7,312.50	\$3,182.00	\$3,621.75
\$23,016.50			\$8,093.00	\$8,497.25	\$ 9,239.00
(\$2,453.95)	(\$207.51)	(\$3,973.72)	(\$5,544.91)	(\$5,392.95)	(\$115.82)
(\$6,367.44)	(\$4,783.59)	(\$5,076.16)	(\$4,994.92)	(\$5,927.34)	(\$15,897.71)
(\$85.50)					
(\$480.00)	(\$1,011.25)	(\$1,027.50)	(\$894.00)	(\$992.00)	(\$1,010.50)
\$405.44	\$407.77				
\$108.90	\$134.40				
			(\$503.04)		
\$29.73			(\$2,090.83)	(\$2,358.15)	(\$5,142.54)
			(\$22,549.65)	(\$26,000.50)	\$ 8,541.60
\$ 47,987.97	\$70,110.39	\$54,934.53	\$61,911.17	\$3,896.50	\$68,259.48

Transfer Station Solid Waste Net Revenue is from the DataNow information for Revenue (46444 and 46450) minus Total Expenses (56801)

Collection Station Solid Waste Net Revenue is from the DataNow information for Revenue (46438) minus Total Expenses (56802). [C&D Collection Sites Net Revenue is included in this figure.]

C & D Collection Sites Net Revenue is a link from the Collection Station Receipts.xls (Demolition plus Furniture & Waste) plus a formula which includes the expenses from DataNow (56802-2918)

Oil revenue is obtained from the paper file of checks received

Appliance Revenue is from a link from the Collection Station Receipts.xls The expenses are included in the scrap metal checks.

Tires Net Revenue is from the DataNow information for Revenue (46480) and Expenses (56901-2906 and 56902-2906)

Yard Waste is expense from DataNow (56902-3490)

Antifreeze is expense from DataNow (56801-2911 and 56802-2911)

Used Oil Filters is expense from DataNow (56801-2913 and 56802-2913)

Fluorescent Bulb Net Revenue is from a link from the Collection Station Receipts.xls (which includes the Transfer Station data) less expenses from DataNow (56801-2919 & 56802-2919)

Electronics Net Revenue -2010 & prior - link from the Collection Station Receipts.xls (which includes the Transfer Station data) less exp from DataNow (56801-2917 & 56802-2917) + checks from MPC

Electronics - 2011 and later data is taken from Electronics Recycling Overview.xls

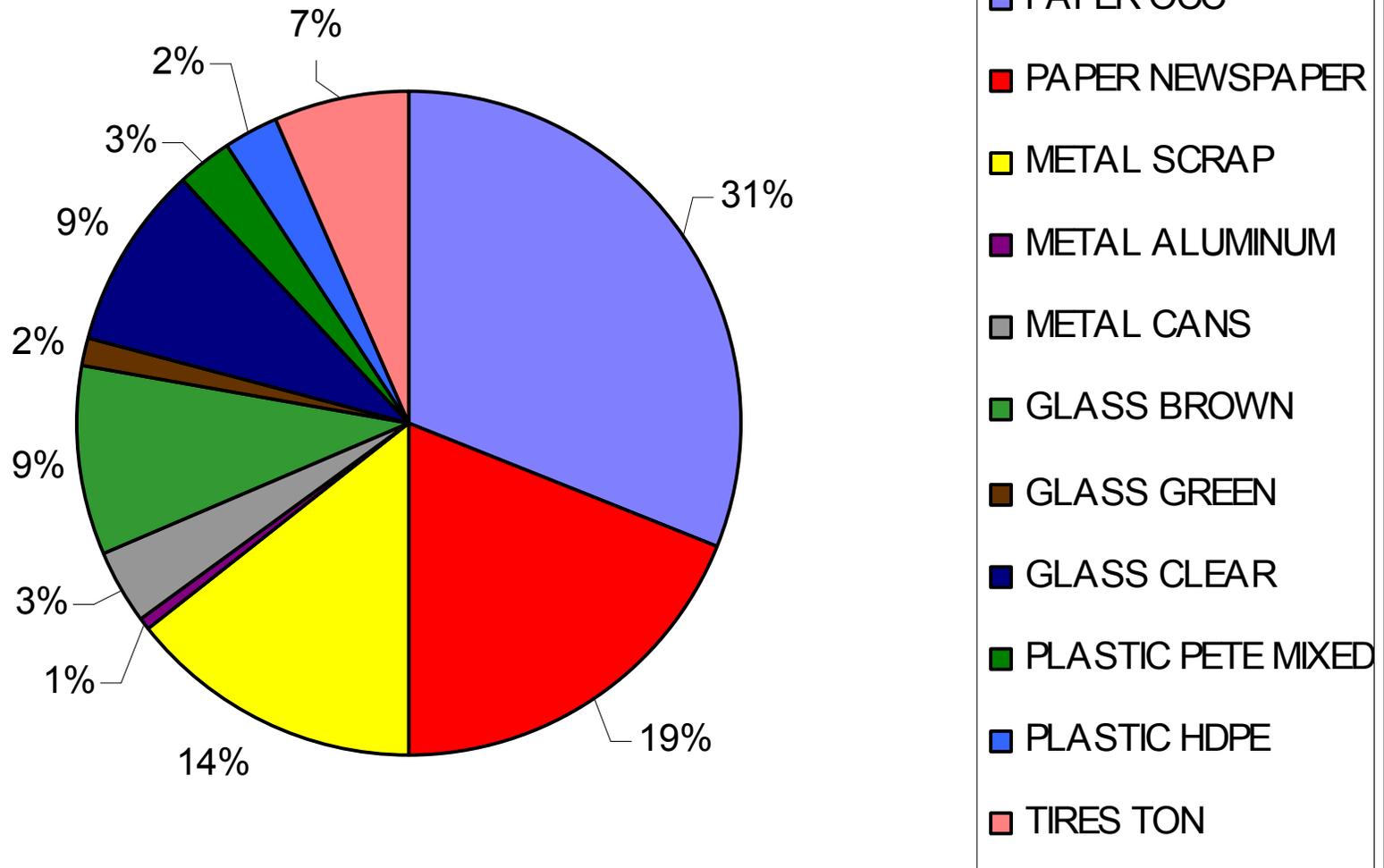
Batteries - 2010 and later - add revenue received from Exide (see Recyclables Sold - Exide Batteries paper file)

2010 Tonnage & Revenue Summary

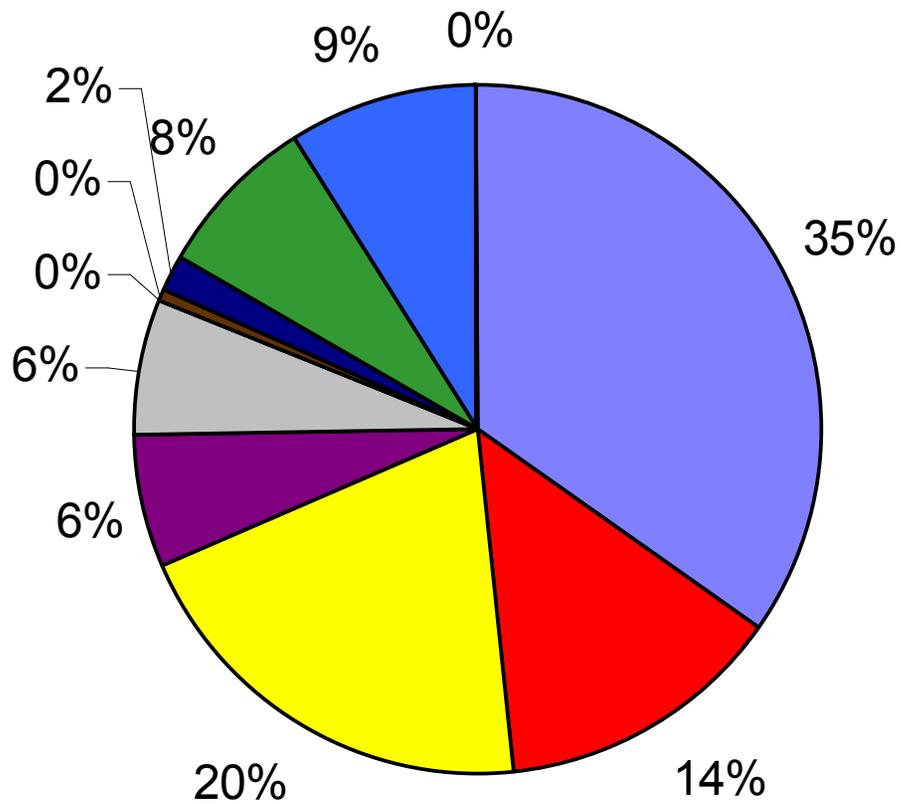
	PAPER	PAPER	METAL	METAL	METAL
	OCC	NEWSPAPER	SCRAP	ALUMINUM	CANS
Average Per Ton	134.54	87.10	166.62	0.70	219.01
Minimum Per Ton	82.50	73.00	160.00	0.65 /lb.	200.00
Maximum Per Ton	199.00	97.00	200.00	0.75 /lb.	242.00
2010 Total Tons	841.35	517.16	392.26	15.20	92.73
2010 Revenue	\$113,192.34	\$45,043.68	\$65,358.30	\$21,140.96	\$20,308.99

	GLASS	GLASS	GLASS	PLASTIC	PLASTIC	TIRES
	BROWN	GREEN	CLEAR	PETE MIXED	HDPE	TON
Average Per Ton	(\$3.40)	(\$26.96)	22.81	0.17	0.23	(\$0.63)
Minimum Per Ton	\$26/T -shipping	\$3/T -shipping	\$59/T -shipping	.13 /lb.	0.2125 /lb.	
Maximum Per Ton	\$27/T -shipping	\$3/T -shipping	\$62/T -shipping	0.195 /lb.	0.28 /lb.	
2010 Total Tons	250.89	42.17	236.94	77.23	63.08	184.38
2010 Revenue	(\$852.38)	(\$1,136.93)	\$5,404.92	\$25,638.80	\$29,067.05	(\$115.82)

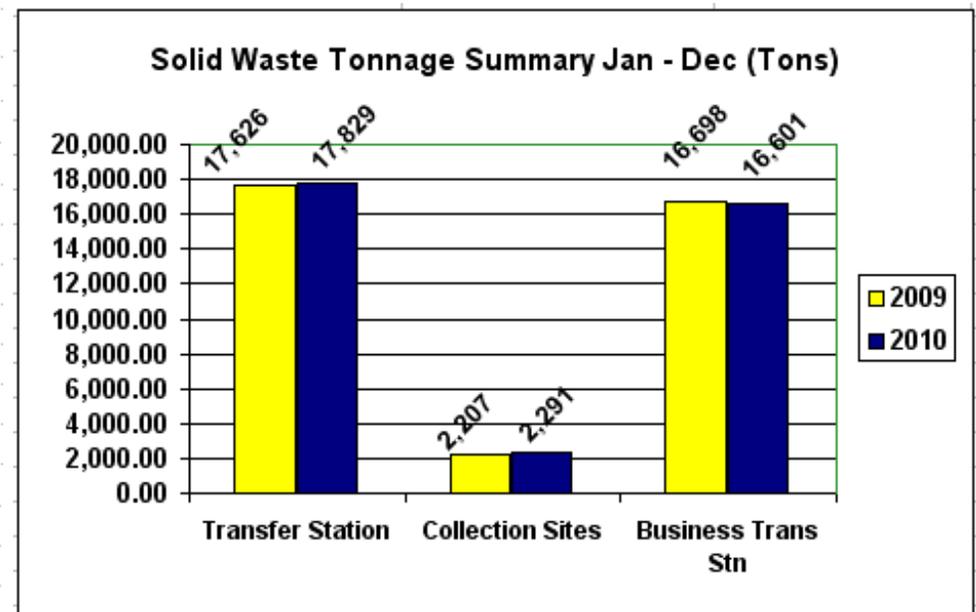
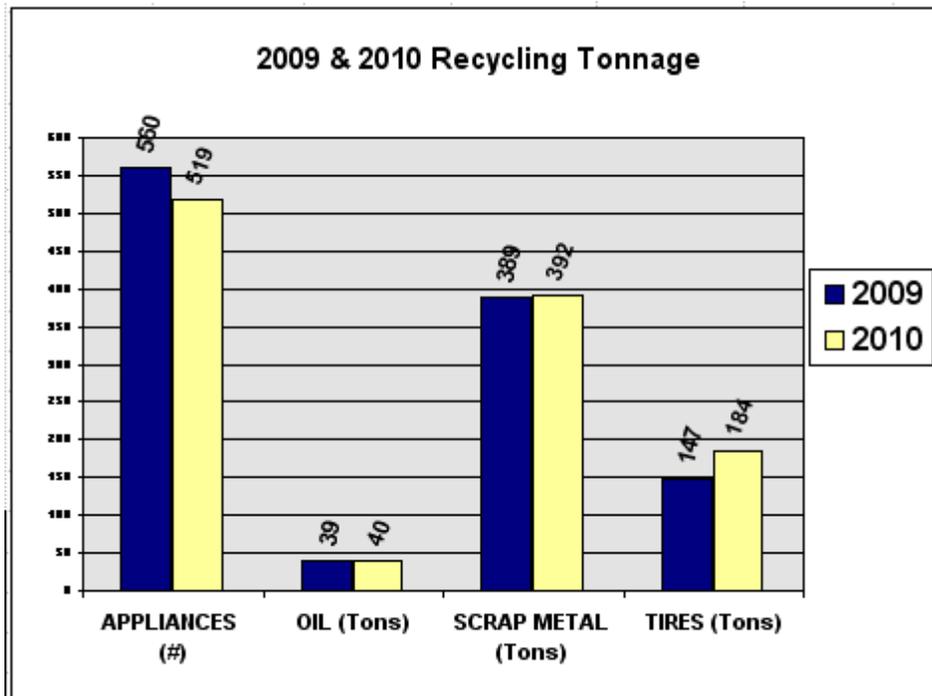
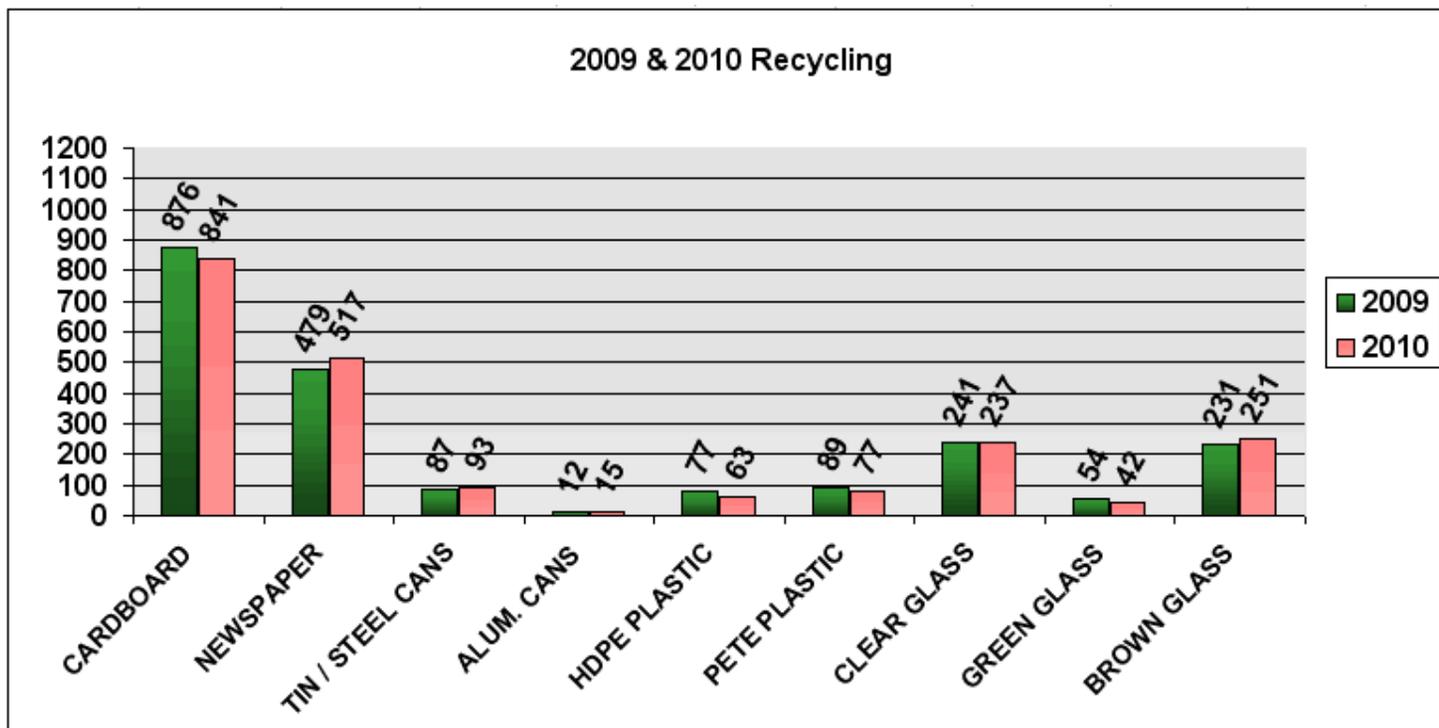
2010 Recyclables Tonnage Percent



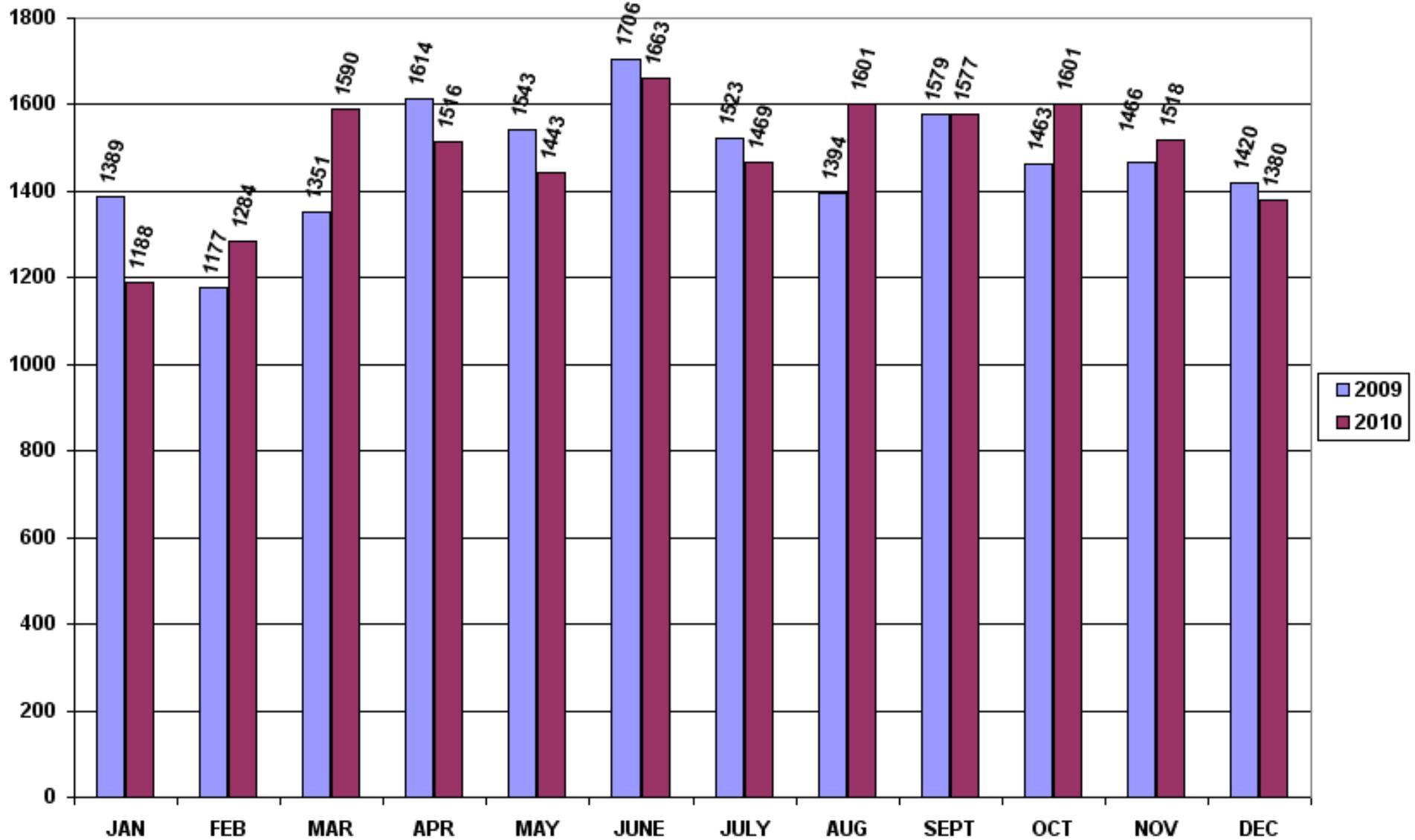
2010 Recyclables Revenue Percent



- PAPER OCC
- PAPER NEWSPAPER
- METAL SCRAP
- METAL ALUMINUM
- METAL CANS
- GLASS BROWN
- GLASS GREEN
- GLASS CLEAR
- PLASTIC PETE MIXED
- PLASTIC HDPE
- TIRES TON



2009 - 2010 Transfer Station Tonnage



2010 SOLID WASTE & RECYCLING SUMMARY (TONS)

SOLID WASTE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
TRANSFER STATION	1187.60	1284.28	1589.60	1515.71	1443.43	1662.96	1468.51	1601.00	1577.27	1600.60	1517.98	1379.96	17828.90
COLLECTION SITES	164.90	147.37	209.15	192.30	188.83	216.75	202.01	229.19	192.58	183.26	203.79	160.46	2290.59
DEMO Collection Sites	16.03	21.95	44.26	58.98	44.62	62.41	52.99	43.87	88.30	60.29	48.36	27.57	569.63
RIDGELAND	4.44	7.99	5.09	7.51	7.02	9.81	6.37	13.47	7.99	8.21	10.30	7.52	95.72
TOTAL (TONS)	1372.97	1461.59	1848.10	1774.50	1683.90	1951.93	1729.88	1887.53	1866.14	1852.36	1780.43	1575.51	20784.84
BUSINESS Trans Stn	1101.50	1187.27	1443.93	1455.13	1396.80	1523.16	1329.24	1409.75	1538.19	1457.41	1445.36	1313.56	16601.30
HOUSEHOLD WASTE TS	86.10	97.01	145.67	60.58	46.63	139.80	139.27	191.25	39.08	143.19	72.62	66.40	1227.60

RECYCLING	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	TOTAL
CARDBOARD	42.87	84.96	66.20	108.30	44.50	90.49	69.07	46.75	44.54	114.03	87.67	41.97	841.35
NEWSPAPER	21.55	23.77	45.38	69.44		90.73	22.61	42.30	43.95	45.81	67.16	44.46	517.16
OFFICE PAPER													0.00
MAGAZINES													0.00
TIN / STEEL CANS		20.83			21.91	11.71			21.10			17.18	92.73
ALUM. CANS									12.08			3.12	15.20
HDPE PLASTIC			21.70	5.84				13.47		12.64	9.43		63.08
PETE PLASTIC			17.32	13.37			17.78	8.93		8.79	11.04		77.23
CLEAR GLASS	26.36	12.84	25.94	15.58	28.44	27.00	13.92	15.10	15.32	29.22	15.48	11.74	236.94
GREEN GLASS			13.70			14.01				14.46			42.17
BROWN GLASS	24.11	14.59	29.21	25.96	26.54	24.86	13.72	14.34	27.05	13.65	26.14	10.72	250.89
TOTAL (TONS)	114.89	156.99	219.45	238.49	121.39	258.80	137.10	140.89	164.04	238.60	216.92	129.19	2136.75

AIR CONDS. (#)	2	1	2	10	15	5	11	12	11	7	5	4	85
AIR COND - Alter													0
ANTIFREEZE (Tons)	30			30	60	110		55			70		1.67
APPLIANCES (#)	15	11	39	40	46	67	73	50	48	70	35	25	519
APPLIANCES - Alter			61		33	38	26	85	28	61	40		372
BATTERY BOXES (Tons)				2		5	3		2	3			0.22
BATTERIES Auto (Tons)			1.02	0.26	0.62		1.10		1.33	1.56	1		6.89
CELL PHONES	202												202
ELECTRONICS (Tons)						42,105	24428	12431	24,777	35469	18671	12270	85.08
FLUORESCENT BULBS (Tons)		4944					4599					6258	3.95
HAZARDOUS WASTE (Tons)													10.16
INK JET CARTRIDGES													0
OIL (Tons)		500	375	1285	1350	1170	670	1725	1725	450	1430	360	40.30
OIL FILTERS (Tons)	55	82	55	220	110	246	55	165	137		82	82	6.06
SCRAP METAL (Tons)	11.84	20.63	28.02	49.84	38.45	50.99	35.21	41.82	25.96	46.87	23.31	19.32	392.26
SHARP CONT (Tons)													1575.0
TIRES (Tons)	23.53	2.37	10.84	18.11	0	35.47	17.12	14.15	16.86	20.54	8.17	17.22	184.38
YARD WASTE													0