

**COUNCIL ACTION FORM**

**SUBJECT: 2015 RESOURCE RECOVERY ANNUAL REPORT**

**BACKGROUND:**

A calendar year report is prepared annually for the Resource Recovery System. Based on this annual report, and in accordance with existing contracts, billings are prepared for the participating communities and Iowa State University.

The 2015 Resource Recovery Annual Report shows that 54,394 tons of Municipal Solid Waste (MSW) was generated within the system during 2015, with 4,041 tons received from Iowa State University. Approximately 47,753 tons (88%) of the total tons received at the plant were processed, and 25,194 tons (53%) of this became Refuse Derived Fuel (RDF). Also, 2,201 tons of metal and 177 tons of glass were recovered for recycling. Over 11 tons of Household Hazardous Material was diverted from the landfill.

Revenues from all sources totaled \$4,205,529, and total expenses were \$4,342,664. This resulted in net reduction of \$137,136 to the Resource Recovery fund for 2015. This reflects the major repairs and capital improvements made at the Power Plant during 2015, necessitating that MSW be taken directly to Boone County landfill while those improvements were being made.

The proposed fees for 2016 will remain the same. **The tipping fee was last raised in 2002 and the per capita was lowered in 2011. The per capita charge will be maintained at \$9.10**, which is payable on July 1, 2016 and December 1, 2016. The per capita charges are based on the certified 2010 census. **The tipping fee rate remains at \$52.75 per ton** and the car line rates continue to be \$8 for cars/passenger vans and \$22 for pickups/trailers. **However, financial projections show that an increase in per capita and/or tipping fees will likely be needed in the near future.**

**ALTERNATIVES:**

1. Accept the attached 2015 Resource Recovery Annual Report as presented, and authorize staff to distribute the report and to bill the participating communities and Iowa State University.
2. Request further information from staff.

**MANAGER'S RECOMMENDED ACTION:**

Council acceptance of this report will allow staff to bill our participating partners for their respective portions of the Resource Recovery System's 2015 costs.

Therefore, it is the recommendation of the City Manager that the City Council adopt Alternative No.1, as noted above.

# ARNOLD O. CHANTLAND RESOURCE RECOVERY SYSTEM 2015



## Table of Contents

Letter from the Director.....	i
Annual Billing.....	1
Materials, Revenues & Expenses.....	2
Population-Percentages-Charges.....	3
Resource Recovery Plant Volumes.....	4
Resource Recovery System Fee Schedule.....	5

Thank you to our partners in sustainability!

- Nevada
- Story City
- Huxley
- Slater
- Roland
- Gilbert
- Maxwell
- Cambridge
- Zearing
- McCallsburg
- Kelley
- Story County
- Iowa State University



February 10, 2016

Dear Resource Recovery System Members:

We saw 2015 mark the 40<sup>th</sup> Anniversary of the Resource Recovery System. An Open House was held Saturday, September 19, celebrating 40 years of landfill diversion for the City of Ames. We are truly grateful to the member agencies for our long standing partnership and their **continuing commitment to sustainability!** Our continuing partners are **Nevada, Story City, Huxley, Slater, Roland, Gilbert, Maxwell, Cambridge, Zearing, McCallsburg, Kelley, Story County, and Iowa State University.**

The Resource Recovery System continues to be one of the most successful methods of landfill diversion in the state of Iowa. Over the last 20 years, approximately **65% of the waste processed at the plant became Refuse Derived Fuel (RDF)**, which replaced a portion of the coal used for electric generation at the City of Ames Power Plant. **For 2015, more than 2,200 tons of metal and 177 tons of glass** were recovered for recycling. Drop-off of Household Hazardous Materials (HHM) continues to be offered by appointment, keeping **over 11 tons** of HHM from the landfill. Therefore, the total amount of waste processed at the plant along with the amount of recovered materials represented 92% of the total waste stream in the system.

The proposed fees for 2015 will remain the same. **The tipping fee was last raised in 2002 and the per capita was lowered in 2011. The per capita charge will be maintained at \$9.10**, which is payable on July 1, 2016 and December 1, 2016. The per capita charges are based on the certified 2010 census. **The tipping fee rate remains at \$52.75 per ton** and the car line rates continue to be \$8 for cars/passenger vans and \$22 for pickups/trailers. **However, financial projections show that an increase in per capita and/or tipping fees will likely be needed in the near future.**

There were several **changes in leadership** of the system in 2015. Gary Freel retired as Resource Recovery Superintendent after 39 years at the plant. **Bill Schmitt** was promoted to Resource Recovery Superintendent and **Mark Peebler** was promoted to Assistant Resource Recovery Superintendent.

If you or any of your constituents have questions about this annual report or any of the activities of the Resource Recovery System, please do not hesitate to contact me or Bill Schmitt (515-239-5137).

Sincerely,

A handwritten signature in blue ink that reads 'John C. Joiner'.

John C. Joiner, P.E.  
Public Works Director

**CITY OF AMES, IOWA**  
**RESOURCE RECOVERY SYSTEM**  
**ANNUAL BILLING**

**Participating Communities**  
**For Calendar Year 2015**

**REVENUES:**

Per Capita	717,216.50	
Refuse Derived Fuel-Electric	746,802.00	
Sale of Metals	120,315.52	
Public Fees	65,108.85	
Regular Customers	2,251,107.73	
Reimbursements and Refunds	1,923.53	
Other Governmental Agencies	21,920.10	
Out of County Revenue	--	
Scrap Tires	3,218.25	
I.S.U. Solid Waste Share	255,123.29	
Interest Revenue	22,793.05	
Sale of Glass	--	
		<b>\$4,205,528.82</b>

**EXPENSES:**

Operations	4,186,445.38	
Debt Service	156,218.99	
		<b><u>\$4,342,664.37</u></b>
	<b>Net</b>	
	<b>Income/Expenses</b>	<b>(\$137,135.55)</b>

**MATERIALS, REVENUES & EXPENSES  
RESOURCE RECOVERY SYSTEM**

Year	Total Refuse (Tons)	***Refuse Not Processed (Tons)	Refuse Processed (Tons)	% of Total Processed	Metals (Tons)	Glass (Tons)	RDF (Tons)	RDF (% of Processed)	Total Diverted %	Revenue	Expense
1996	28,484	32	28,452	99.9%	835	0	18,875	66%	69%	\$2,237,072	\$2,628,208
1997	45,435	2,791	42,644	94%	1,464	0	27,746	65%	68%	\$3,081,928	\$3,163,332
1998	48,643	953	47,690	98%	1,903	0	31,138	65%	69%	\$3,373,503	\$3,183,602
1999	49,164	2,794	46,370	94%	1,654	0	30,434	66%	69%	\$3,161,495	\$3,220,240
2000	48,896	4,499	44,397	91%	1,401	0	28,095	63%	66%	\$3,097,282	\$3,313,053
2001	50,093	5,138	44,955	90%	1,104	0	30,435	68%	70%	\$3,353,739	\$3,281,503
2002	50,267	1,550	48,717	97%	1,258	0	35,147	72%	75%	\$3,731,348	\$3,110,513
2003	51,906	4,770	47,136	91%	1,678	0	33,146	70%	74%	\$3,803,639	\$3,527,346
2004	53,788	2,762	51,026	95%	2,332	0	34,334	67%	72%	\$4,017,107	\$3,462,794
2005	54,493	1,025	53,468	98%	2,250	0	32,621	61%	65%	\$4,285,110	\$3,716,566
*2006	55,500	4,511	50,989	92%	2,229	54	30,180	59%	64%	\$4,250,337	\$4,449,985
2007	57,333	4,513	52,820	92%	2,102	96	34,182	65%	69%	\$4,392,686	\$4,531,663
2008	57,470	4,754	52,716	92%	2,068	115	36,060	68%	73%	\$4,632,493	\$3,725,904
2009	53,395	6,748	46,647	87%	1,987	130	31,040	67%	71%	\$3,956,279	\$5,507,045
2010	58,756	1,262	57,494	98%	2,347	129	37,865	66%	70%	\$4,937,018	\$4,605,121
2011	55,270	4,659	50,611	92%	2,166	150	34,422	68%	73%	\$4,697,573	\$3,729,248
2012	53,106	3,725	49,381	93%	2,177	145	32,329	65%	70%	\$4,641,704	\$4,089,447
2013	54,159	10,066	44,093	81%	1,873	171	28,262	64%	69%	\$4,062,010	\$4,196,226
2014	55,698	8,204	47,494	85%	2,104	173	29,595	62%	67%	\$4,501,455	\$4,555,974
**2015	54,394	6,641	47,753	88%	2,201	177	25,194	53%	58%	\$4,205,529	\$4,342,664
<b>20-YR TOTAL</b>	<b>1,036,250</b>	<b>81,397</b>	<b>954,853</b>	<b>92%</b>	<b>37,133</b>	<b>1,340</b>	<b>621,100</b>	<b>65%</b>	<b>71%</b>	<b>\$78,419,307</b>	<b>\$76,340,434</b>

\* Closed for one month for air knife installation

\*\* Closed for 6 weeks for power plant upgrades

\*\*\*Reflects tons to Boone County landfill from planned shut downs, unplanned shut downs, and non-beneficial MSW from the waste stream

**CITY OF AMES, IOWA**

**POPULATION – PERCENTAGE – CHARGES  
Annual Billing - Calendar 2015  
Per Capita - \$9.10**

	<u>POPULATION</u> <sup>1</sup>	PERCENT OF <u>POPULATION</u>	<u>TOTAL</u>
Ames	49,765 <sup>2</sup>	63.14%	\$452,861.50
Story County	8,706	11.05%	\$79,224.60
Nevada	6,798	8.63%	\$61,861.80
Story City	3,431	4.35%	\$31,222.10
Huxley	3,317	4.21%	\$30,184.70
Slater	1,489	1.89%	\$13,549.90
Roland	1,284	1.63%	\$11,684.40
Gilbert	1,082	1.37%	\$9,846.20
Maxwell	920	1.17%	\$8,372.00
Cambridge	827	1.05%	\$7,525.70
Zearing	554	0.70%	\$5,041.40
McCallsburg	333	0.42%	\$3,030.30
Kelley	309	0.39%	\$2,811.90
<b>TOTALS</b>	<b>78,815</b>	<b>100.00%</b>	<b>717,216.50</b>

<sup>1</sup> Based on 2010 U.S. Census

<sup>2</sup> 58,965 minus I.S.U. 9,200

**CITY OF AMES, IOWA  
RESOURCE RECOVERY PLAN VOLUMES  
12/31/2015**

<b>CLASS</b>	<b>2015 TRIPS</b>	<b>2015 WEIGHT</b>	<b>PERCENT OF TOTAL WEIGHT</b>
Non-Scale Refuse (Car line)	4,315	1,230	2.3%
Commercial Haulers	9,197	42,135	77.4%
Private Industry/Contractors	405	326	0.6%
City of Ames	49	40	0.1%
Iowa State University	1,058	4,041	7.4%
Iowa Dept of Transportation	287	95	0.2%
U.S.D.A. Lab	135	197	0.4%
Directly to Boone	1,330	6,330	11.6%
<b>TOTALS</b>	<b>16,776</b>	<b>54,394</b>	<b>100.0%</b>



**CITY OF AMES, IOWA  
RESOURCE RECOVERY SYSTEM  
FEE SCHEDULE**

<b>YEAR</b>	<b>PER CAPITA</b>	<b>TIPPING FEE</b>	<b>CARLINE</b>	
			<b>CARS</b>	<b>PICKUPS</b>
2005/06	\$10.50	\$52.75/TON	\$8.00	\$22.00
2006/07	\$10.50	\$52.75/TON	\$8.00	\$22.00
2007/08	\$10.50	\$52.75/TON	\$8.00	\$22.00
2008/09	\$10.50	\$52.75/TON	\$8.00	\$22.00
2009/10	\$10.50	\$52.75/TON	\$8.00	\$22.00
2010/11	\$10.50	\$52.75/TON	\$8.00	\$22.00
2011/12	\$9.10	\$52.75/TON	\$8.00	\$22.00
2012/13	\$9.10	\$52.75/TON	\$8.00	\$22.00
2013/14	\$9.10	\$52.75/TON	\$8.00	\$22.00
2014/15	\$9.10	\$52.75/TON	\$8.00	\$22.00
2015/16	\$9.10	\$52.75/TON	\$8.00	\$22.00