

**COUNCIL ACTION FORM**

**SUBJECT: 2014 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 2014 Resource Recovery Annual Report shows that 55,698 tons of Municipal Solid Waste (MSW) was received at the plant during 2014, with 6.8 percent (3,812 tons) of that amount from Iowa State University. Approximately 85 percent (47,494 tons) of the total tons received at the plant were processed, and 62 percent (29,595 tons) of this became Refuse Derived Fuel (RDF). Approximately 8,045 tons (14.4 percent) were sent to the Boone County Landfill.

Revenues from all sources totaled \$4,501,455, and total expenses were \$4,555,974. This resulted in a net reduction of \$54,519 to the Resource Recovery fund for 2014. The per capita fee charged to the other partnering agencies remained at \$9.10 for 2014, and the tipping fee for haulers remained at \$52.75 per ton.

**ALTERNATIVES:**

1. Accept the attached 2014 Resource Recovery Annual Report as presented, and authorize staff to distribute the report and to bill the participating communities, Story County, and Iowa State University.
2. Request further information from staff.

**MANAGER'S RECOMMENDED ACTION:**

The operating agreement with the partner agencies was renewed in 2014. Of the previous partners, 13 chose to renew. Colo was the only agency not to renew, choosing to direct their solid waste to be landfilled in Marshall County. Council acceptance of this report will allow staff to bill our participating partners for their respective portions of the Resource Recovery System's 2014 costs.

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

# ARNOLD O. CHANTLAND RESOURCE RECOVERY SYSTEM 2014



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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 11, 2015

Dear Resource Recovery System Members:

The system **agreements were renewed with 13 of our 14 member communities/agencies in 2014**. We are truly grateful to the member agencies for renewing our long standing partnership and their **continuing commitment to sustainability!** Our partners for the next twenty years are **Nevada, Story City, Huxley, Slater, Roland, Gilbert, Maxwell, Cambridge, Zearing, McCallsburg, Kelley, Story County, and Iowa State University**. We also sincerely appreciate your hospitality and consideration as we made visits to all the member agencies to gain input on renewing our agreements. We are committed to staying connected with you, as valued partners. We would be happy to meet with your staff, attend a City Council/Board meeting, participate in a local school event, and provide tours of our facility. We look forward to beginning the next exciting 20-year period together!

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 **66% of the waste processed at the plant becomes Refuse Derived Fuel (RDF)**, which replaces a portion of the coal used for electric generation at the City of Ames Power Plant. Also, more than **2,200 tons of metal** and **173 tons of glass** were recovered in 2014 for recycling. Drop-off of Household Hazardous Materials (HHM) continues to be offered by appointment, keeping **over 10 tons** of HHM from the landfill last year.

Due to the strong financial position of the Resource Recovery System, the proposed fees for 2015 will remain the same. The **per capita charge**, which is payable on July 1, 2015 and December 1, 2015, **will be maintained at \$9.10**. 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**.

We will be seeing a big change in the coming months. **Gary Freel**, Resource Recovery Superintendent, will be **retiring March 31<sup>st</sup> after 39 years at the plant**. Gary's vision and leadership have been a major influence on the many improvements in equipment and processes in the system. Many thanks to Gary; he will be greatly missed! As we recruit his replacement, our member partners and haulers will be invited for a "meet and greet" with the candidates during the interview process.

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, Gary Freel, or Bill Schmitt.

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 2014**

**REVENUES:**

Per Capita	725,188.10	
Refuse Derived Fuel-Electric	711,468.00	
Sale of Metals	337,336.92	
Public Fees	60,718.39	
Regular Customers	2,238,389.96	
Reimbursements and Refunds	139,374.80	
Other Governmental Agencies	18,861.69	
Out of County Revenue	-	
Used Tires	3,078.00	
I.S.U. Solid Waste Share	235,651.21	
Interest Revenue	30,819.75	
Sale of Glass	568.28	
		<b>4,501,455.10</b>

**EXPENSES:**

Operations	4,423,842.78	
Debt Service	132,131.00	
		<b><u>4,555,973.78</u></b>
	<b>Net Income/Expense</b>	<b>(54,518.68)</b>

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

YEAR	TOTAL REFUSE RECEIVED (TONS)	TOTAL REFUSE REJECTED (TONS)	REFUSE PROCESSED (TONS)	(%) <sup>2</sup>	FERROUS	(%) <sup>1</sup>	RDF	(%) <sup>1</sup>	(%) <sup>2</sup>	REVENUES	EXPENSES	REV/EXP	NET EXPENSE (\$/TON)
1995	28,117	58	28,059	100%	1,097	4%	20,386	73%	73%	1,372,600 *	2,109,276	65%	26.20
1996	28,484	32	28,452	100%	835	3%	18,875	66%	66%	2,237,072 **	2,628,208	85%	13.73
1997	45,435	2,791	42,644	94%	1,464	3%	27,746	65%	61%	3,081,928	3,163,332	97%	1.79
1998	48,643	953	47,690	98%	1,903	4%	31,138	65%	64%	3,373,503	3,183,602	106%	(3.90)
1999	49,164	2,794	46,370	94%	1,654	4%	30,434	66%	62%	3,161,495	3,220,240	98%	1.19
2000	48,896	4,499	44,397	91%	1,401	3%	28,095	63%	57%	3,097,282	3,313,053	93%	4.41
2001	50,093	5,138	44,955	90%	1,104	2%	30,435	68%	61%	3,353,739	3,281,503	102%	(1.44)
2002	50,267	1,550	48,717	97%	1,258	3%	35,147	72%	70%	3,731,348	3,110,513	120%	(12.35)
2003	51,906	4,470	47,436	91%	1,678	4%	33,146	70%	64%	3,803,639	3,527,346	108%	(5.32)
2004	53,788	2,762	51,026	95%	2,332	5%	34,334	67%	64%	4,017,107	3,462,794	116%	(10.31)
2005	54,493	1,025	53,468	98%	2,250	4%	32,621	61%	60%	4,285,110	3,716,566	115%	(10.43)
2006	55,500	4,511	50,989	92%	2,229	4%	30,180	59%	54%	4,250,337 ***	4,449,985	96%	3.60
2007	57,333	4,513	52,820	92%	2,102	4%	34,182	65%	60%	4,392,686	4,531,663	97%	2.42
2008	57,470	4,754	52,716	92%	2,068	4%	36,060	68%	63%	4,632,493	3,725,904	124%	(15.77)
2009	53,395	6,748	46,647	87%	1,987	4%	31,040	67%	58%	3,956,279	5,507,045	72%	29.04
2010	58,756	1,262	57,494	98%	2,347	4%	37,865	66%	64%	4,937,018	4,605,121	107%	(5.65)
2011	55,270	4,659	50,611	92%	2,166	4%	34,422	68%	62%	4,697,573	3,729,248	126%	(17.52)
2012	53,106	3,725	49,381	93%	2,177	4%	32,329	65%	61%	4,641,704	4,089,447	114%	(10.40)
2013	54,159	10,066	44,093	81%	1,873	4%	28,262	64%	52%	4,062,010	4,196,226	97%	2.48
2014	55,698	8,204	47,494	85%	2,104	4%	29,595	62%	53%	4,501,455	4,555,974	99%	0.98
<b>20 YEAR TOTAL</b>	<b>1,009,973</b>	<b>74,514</b>	<b>935,459</b>	<b>93%</b>	<b>36,029</b>	<b>4%</b>	<b>616,292</b>	<b>66%</b>	<b>61%</b>	<b>\$75,586,378</b>	<b>\$74,107,046</b>	<b>102%</b>	<b>(\$1.46)</b>

<sup>1</sup>Denotes percent of processed material  
<sup>2</sup>Denotes percent of tons total refuse received

\* Closed for renovation for part of the year (1995, 1996)  
\*\* Beginning in 1996, per capita is included as revenue  
\*\*\*Closed for one month for Air Knife Installation

*\$/Incoming Ton Revenue . . . . . \$74.84*  
*\$/Incoming Ton Expense, Net . . . . . (\$1.46)*  
*Percent Recovery - R.D.F.. . . . . 61%*  
*Percent Recovery - Ferrous. . . . . 4%*

**CITY OF AMES, IOWA**

**POPULATION - PERCENTAGES - CHARGES**

**Annual Billing - Calendar 2014**

**Per Capita - \$9.10**

	<u>POPULATION</u> <sup>1</sup>	PERCENT OF <u>POPULATION</u>	<u>TOTAL</u>
Ames	49,765 <sup>2</sup>	62.45%	\$452,861.50
Story County	8,706	10.92%	\$79,224.60
Nevada	6,798	8.53%	\$61,861.80
Story City	3,431	4.31%	\$31,222.10
Huxley	3,317	4.16%	\$30,184.70
Slater	1,489	1.87%	\$13,549.90
Roland	1,284	1.60%	\$11,684.40
Gilbert	1,082	1.36%	\$9,846.20
Maxwell	920	1.15%	\$8,372.00
Colo	876	1.10%	\$7,971.60
Cambridge	827	1.04%	\$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>79,691</b>	<b>100.00%</b>	<b>\$725,188.10</b>

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

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

# **APPENDICES**



**CITY OF AMES, IOWA  
MONTHLY REFUSE VOLUMES - 2014**

	TONS RECEIVED FROM <u>I.S.U.</u>	TONS RECEIVED FROM <u>U.S.D.A.</u>	TONS RECEIVED FROM <u>I.D.O.T.</u>	TONS RECEIVED FROM <u>OTHER</u>	TOTAL REFUSE RECEIVED (Tons)
January	256	16	7	3,758	4,037
February	331	17	8	3,317	3,673
March	328	13	9	3,749	4,099
April	268	16	6	4,467	4,757
May	432	21	15	4,797	5,265
June	203	12	11	4,670	4,896
July	200	17	8	5,069	5,294
August	386	9	7	4,696	5,098
September	357	18	6	4,600	4,981
October	397	14	7	4,469	4,887
November	305	7	6	3,866	4,184
December	349	12	9	4,157	4,527
<b>TOTAL</b>	<b>3,812</b>	<b>172</b>	<b>99</b>	<b>51,615</b>	<b>55,698</b>

**CITY OF AMES, IOWA  
RESOURCE RECOVERY PLAN VOLUMES  
12/31/2014**

<b>CLASS</b>	<b>2014 TRIPS</b>	<b>2014 WEIGHT</b>	<b>PERCENT OF TOTAL WEIGHT</b>
Non-Scale Refuse (Car line)	3,947	1,267	2.3%
Commercial Haulers	14,989	41,852	75.1%
Private Industry/Contractors	413	409	0.7%
City of Ames	62	42	0.1%
Iowa State University	1,097	3,812	6.8%
Iowa Dept of Transportation	334	99	0.2%
U.S.D.A. Lab	94	172	0.3%
Directly to Boone	1,667	8,045	14.4%
<b>TOTALS</b>	<b>22,603</b>	<b>55,698</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>
<b>2005/06</b>	<b>\$10.50</b>	<b>\$52.75/TON</b>	<b>\$8.00</b>	<b>\$22.00</b>
<b>2006/07</b>	<b>\$10.50</b>	<b>\$52.75/TON</b>	<b>\$8.00</b>	<b>\$22.00</b>
<b>2007/08</b>	<b>\$10.50</b>	<b>\$52.75/TON</b>	<b>\$8.00</b>	<b>\$22.00</b>
<b>2008/09</b>	<b>\$10.50</b>	<b>\$52.75/TON</b>	<b>\$8.00</b>	<b>\$22.00</b>
<b>2009/10</b>	<b>\$10.50</b>	<b>\$52.75/TON</b>	<b>\$8.00</b>	<b>\$22.00</b>
<b>2010/11</b>	<b>\$10.50</b>	<b>\$52.75/TON</b>	<b>\$8.00</b>	<b>\$22.00</b>
<b>2011/12</b>	<b>\$9.10</b>	<b>\$52.75/TON</b>	<b>\$8.00</b>	<b>\$22.00</b>
<b>2012/13</b>	<b>\$9.10</b>	<b>\$52.75/TON</b>	<b>\$8.00</b>	<b>\$22.00</b>
<b>2013/14</b>	<b>\$9.10</b>	<b>\$52.75/TON</b>	<b>\$8.00</b>	<b>\$22.00</b>
<b>2014/15</b>	<b>\$9.10</b>	<b>\$52.75/TON</b>	<b>\$8.00</b>	<b>\$22.00</b>