

Function:
Public Works

Department:
Public Works

Activity:
Snow and Ice Control

GENERAL INFORMATION

This activity accounts for the cost of snow and ice removal from the streets of Muscatine as well as the spreading of salt and sand. The City has designated certain streets as snow emergency routes for priority snow removal prior to cleaning residential streets with low density traffic. In addition, the City has specific salt and sand routes for secondary consideration. The City continues to utilize the salt dome which was a joint City/County project. The City also has a separate salt facility that was completed in 2005.

CURRENT TRENDS AND ISSUES

The 2012/2013 revised estimate is under the original budget by \$16,900 primarily due to actual salt costs being \$20,000 less than budgeted.

The 2013/2014 budget is \$9,500 (2.6%) more than the 2012/2013 budget primarily due to a \$9,000 increase in capital outlay purchases. The budget again includes funding for one barge load of salt instead of the two barge loads budgeted most years. With the mild 2011/2012 winter and relatively mild beginning of the 2012/2013 winter, one barge load is expected to be sufficient to replenish the City's inventory for 2013/2014.

The budget for 2000/2001 first included funding for an outside contractor to provide snow removal services in the downtown area. The actual cost of this service during the unusually snowy winter of 2000/2001 was \$41,503. A history of the contracted downtown snow removal costs and the number of snow events each year is as follows:

	<u>Cost</u>	<u>Snow Events</u>
2000/2001	\$41,503	24
2001/2002	17,250	10
2002/2003	10,560	12
2003/2004	27,976	13
2004/2005	9,200	9
2005/2006	14,038	9
2006/2007	17,615	9
2007/2008	55,805	23
2008/2009	60,225	25
2009/2010	37,870	21
2010/2011	64,670	15
2011/2012	12,120	12

The 2012/2013 revised estimate and 2013/2014 budget each include \$40,000 for contracted snow removal in the downtown area.

GOAL STATEMENT

To provide a safe street system during the winter months through efficient and effective snow and ice removal and control procedures.

PERFORMANCE MEASURES

	Actual 2009/2010	Actual 2010/2011	Actual 2011/2012	Estimated 2012/2013	Estimated 2013/2014
Number of Storms	21	15	12	15	15
Tons of Salt Used	1,581	1,100	963.5	1,100	1,100
Tons of Sand Used	630	450	100	450	450
Tons of Cinders	N/A	N/A	31.5	450	450

RECENT ACCOMPLISHMENTS

Winter started late in 2011-2012 with the first storm on December 6, 2011. One inch of snow fell and temperatures were around 29 degrees. A salt run at 7:00 a.m. took care of this storm. There were only two storms during that December with a total of 2.5 inches of snow. January 12, 2012 was the largest storm of the winter with five inches of snow. January had five storms with a total of 9 inches of snow and one storm with freezing drizzle. Two storms in February totaled 4.5 inches and March only had 2 storms totaling 2.5 inches of snow. There were a total of 12 storms and 18.5 inches of snow. City crews used a total of 963.5 tons of salt, 31.5 tons of cinders, and 100 tons of sand.

OBJECTIVES TO BE ACCOMPLISHED IN 2013/2014

- * To continue evaluating the snow routes using GIS technology.
- * To continue updating salt boxes to stainless steel in order to reduce maintenance costs.
- * To evaluate impacts of the new Snow Emergency Ordinance.
- * To improve the department's documentation of crew operations during each snow occurrence.

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	Actual 2010/2011	Actual 2011/2012	Budget 2012/2013	Revised Estimate 2012/2013	Budget 2013/2014	Percent Change
Expenditure Summary						
Personal Services	\$ 84,834	\$ 31,634	\$ 84,600	\$ 84,600	\$ 85,100	0.59%
Commodities	222,113	196,728	142,100	122,500	142,100	0.00%
Contractual Services	155,333	57,127	108,400	111,100	108,400	0.00%
Capital Outlay	7,599	40,313	37,000	37,000	46,000	24.32%
Transfers	—	—	—	—	—	—
Total Expenditures	\$ 469,879	\$ 325,802	\$ 372,100	\$ 355,200	\$ 381,600	2.55%
Funding Sources						
Road Use Taxes	\$ 359,515	\$ 223,464	\$ 272,100	\$ 321,100	\$ 321,600	18.19%
Reimbursement of Expenses	110,364	102,338	100,000	34,100	60,000	-40.00%
Total Funding Sources	\$ 469,879	\$ 325,802	\$ 372,100	\$ 355,200	\$ 381,600	2.55%

	Personnel Schedule					
	Actual 2010/2011	Actual 2011/2012	Budget 2012/2013	Revised Estimate 2012/2013	Budget 2013/2014	Budget Amount 2013/2014
Full Time Positions:						
Equipment Operator III	N/A	N/A	N/A	N/A	N/A	N/A
Equipment Operator II	N/A	N/A	N/A	N/A	N/A	N/A
Equipment Operator I	—	—	—	—	—	—
Total	N/A	N/A	N/A	N/A	N/A	\$ 45,000
Employee Benefits						40,100
Total Personal Services						\$ 85,100

	Capital Outlay			
Item		Quantity	Replacement	Amount
10' Salt Boxes		1	Yes	\$ 20,000
2-Way Snow Plow		1	Yes	14,000
4-Way Snow Plow		1	Yes	12,000
				\$ 46,000