

**2015  
Year End Report  
Streets/Solid Waste/Recycling Departments**

**Winter**

The street crew consists of eight individuals that are cross trained in every area of the Street Department. The areas of the Street Department consist of; Streets, Snow Removal, Solid Waste, Recycling, Restricted Use Site, Yard Waste Site, and Storm Drainage. They work together as a finely oiled crew to make the City of Madison safe from the South Dakota elements.



**2015 Snow Removal**

January thru March was again spent plowing/sanding streets, trimming and removal of trees and preparing equipment for spring and summer. Plowing snow consists of much more than just plowing. It also entails cleaning of alleys and city parking areas of snow and ice, rounding corners, cleaning intersections, cleaning off catch basins, and hauling snow out of the downtown core area and the highways thru town. The total cost breakdown for snow removal and sanding efforts, from the Streets Department crew, for 2015 were as follows: \$35,934.63 in labor, \$121,325.00 for equipment usage, and \$10,806.90 in materials. These tasks are accomplished by a crew of eight full time members with help from the Water Department, Electric Department, and Parks Department.

We are extremely thankful for the cooperation from these areas.

Other winter time activities included trimming and removal of dead (and or split) trees from boulevards. The street crew spent a total of 1,074 hours in 2015 trimming and removing trees and stumps from boulevards and city property costing a total of \$88,403.21.

Another winter project new for this year was hauling quartzite rock from Dell Rapids Quarry for the upcoming sealcoating project . This was the first year the city used this type of rock throughout the project. 90 loads were hauled for a total of 1,200 ton during various times throughout the winter months.



**Street Crews Trimming  
Trees Along Creek**

**Spring**

With winter winding down and temps slowly climbing, now is the time to pick up all of that sand that was put down throughout the winter. We sweep it up and stockpile it behind the city shop, then usually around mid May we use it as cover to hold down the loads we pick up during city wide cleanup. Our Restricted Use Site (RUS) is located two miles west of Junius so the cover is required to keep everything in place for the trip.

City wide cleanup was May 11-14. A total of 119 loads were hauled to the RUS with 580 tires collected and hauled separately. This amount of rubble covered approximately 714 cubic yards of space at the RUS. The tires were hauled out by a 3<sup>rd</sup> party contractor to dispose of properly. The total cost for city wide cleanup was \$36,091.00. This consisted of



**Asphalt Patching**

Spring also included routing and filling cracks and potholes created throughout the winter. The spring thaw occurred fairly quickly this year pushing a fair amount of frost through many spots in our streets. All of which were fixed throughout the summer months. A total of 625 hours was spent crack filling and pot hole repairing.

Also in the spring is one of two electronics drop off events that we coordinate with the Lake County

Natural Resources Department. In April a total of 19.62 tons of electronics were collected and in October a total of 16.2 tons were collected. Special thanks to the citizens of Lake County for recycling these items and the youth group from Living Hope Wesleyan church helping us unload these items.

## Summer

With summer it was time to address the more than average amount of damage that occurred from the spring thaw. New asphalt was put in many areas that needed to be fixed on streets that were scheduled to be seal coated. A total of 400 ton of asphalt was used in repairing approximately 90 different areas throughout the city.

Water main breaks and new sewer hook-ups were addressed and a total of 100 feet of curb and gutter being replaced by this department in 2015.

Another task we do during the summer months is painting /striping the crosswalks around all four schools and the parking areas downtown. In 2015 a total of 275 gallons of paint was used and labor totaled 284 hours. Total cost of materials, equipment and man hours for painting and striping was \$22,389.35

Seal coating again began in early August and lasted about one week. New this year was the overall use of red quartzite. In theory red quartzite costs a bit more but has a longer life span, time will tell if it wears better than the previously used pea rock. We did a total of 82 blocks this year with a total of 1,100 ton of red rock and 142 ton of oil used to hold it all down.



**2015 Seal Coating**



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**2015 Seal Coating**

We had a few significant wind/hail storms this year to contend with in 2015. The damage was spread throughout the city with most of the trees concentrated towards the center of town. A total of 286.50 hours was spent on storm damage and approximately 20 trees were removed and the stumps ground out.

## Fall

Fall was spent sweeping up excess rock from seal coated streets, along with sweeping up leaves and debris from city streets. We also continued to patch areas with hot asphalt well into October and even some into November as the temps allowed. The fall weather was nice, giving us plenty of time to pick up as many leaves as possible to avoid them getting caught in storm drains and causing problems in the spring. It also gave us time to do some creek cleaning in our two creeks that run through town. The drier the better works for this project and we got into some hard to reach areas until mother nature shut us down.

Our first shot of winter rolled in on December 1<sup>st</sup> and delivered 10-12 inches of heavy wet snow. For the most part the storm was handled fairly quickly considering the larger than normal amount and being a little out of practice dealing with the snow. I can't thank the other departments enough for helping us with snow removal.

## Other Fall Projects

The South Dakota Department of Transportation has roll out new sign reflectivity requirements. Because of this the street department has been assigned to the replacing of non-reflective signs with new ones. We started this project last year and will continue in the years to come.

Also throughout the year, we are busy picking up solid waste and recycling. The city is split into four routes for solid waste and the other day of the week (Wednesday) is spent on recycling pickup. This year we hauled 926.39 ton of solid waste to the Brookings landfill. We also shipped out 924 ton of recyclable material with the majority of it being cardboard and newspaper. Everything is sorted on a conveyor into separate bins by ECCO staff at the recycling center and then our crews bale it prior to shipping.

Thanks to a great crew that make my job easier by making all of these projects run smoothly. John Doblár, Steve Christiansen, Jimmy Materese, Roger Robertson, Chad Patch, Paul Gum, Chad VanDenHemel, Tom Michelke, Dan Johnson, Martin Hix, and last but not least Roxie Ebdrup.

Respectfully Submitted

Gary Gonyo, Street Superintendent



**Storm Damage June 20, 2015**



**Storm Damage June 20, 2015**



**Blocked Storm Drain**

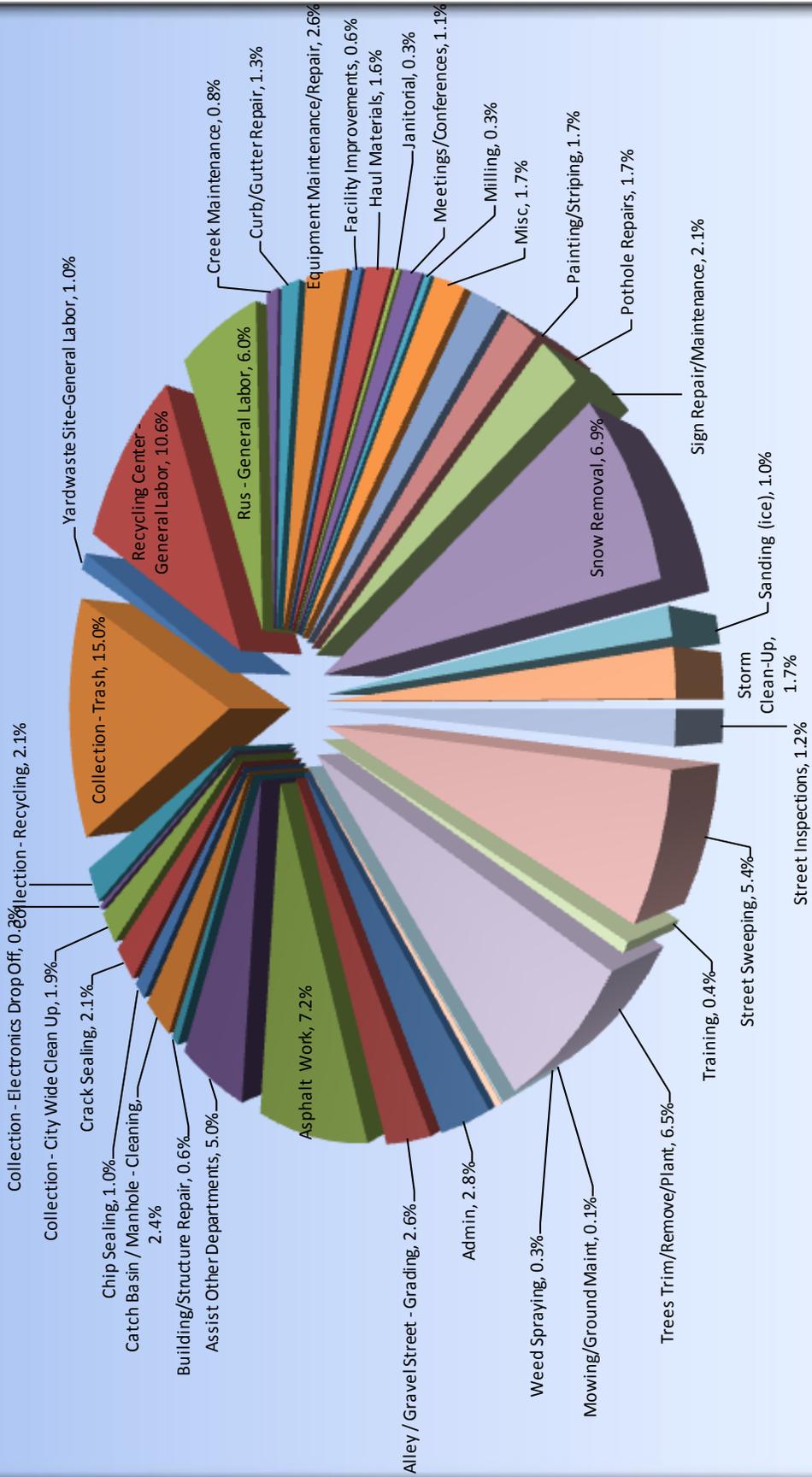
# City of Madison Public Works

## 2015 Streets/Solid Waste Task Summary

Task	Activities	Labor Hours	Labor Cost	Eqp Cost	Mat Cost	Total Cost
Admin	174	458.50	\$14,647.22	\$0.00	\$0.00	\$14,647.22
Alley/Gravel Street - Maintenance	108	430.25	\$11,632.54	\$36,264.75	\$745.50	\$48,642.79
Asphalt - Patching	283	1,161.00	\$30,166.79	\$71,712.50	\$20,355.94	\$122,235.23
Asphalt - Hauling	1	2.00	\$52.40	\$200.00	\$0.00	\$252.40
Assist Mechanic	100	350.50	\$9,504.97	\$1,625.00	\$0.00	\$11,129.97
Assist Other Departments	130	464.75	\$12,243.38	\$20,334.75	\$4,662.71	\$37,240.84
Building/Structure Repair	24	94.50	\$2,744.62	\$1,395.00	\$0.00	\$4,139.62
Catch Basin / Manhole - Cleaning	80	298.50	\$7,684.36	\$13,162.50	\$0.00	\$20,846.86
Chip Sealing	28	160.00	\$4,493.80	\$5,935.00	\$0.00	\$10,428.80
Collection - City Wide Clean Up	49	317.00	\$7,776.98	\$22,960.00	\$0.00	\$30,736.98
Collection - Electronics Drop Off	13	44.00	\$1,102.10	\$750.00	\$0.00	\$1,852.10
Collection - Recycling	59	351.00	\$8,252.94	\$9,540.00	\$0.00	\$17,792.94
Collection - Trash	343	2,470.75	\$59,189.33	\$96,956.25	\$0.00	\$156,145.58
Complaint Investigation	3	2.50	\$79.45	\$75.00	\$0.00	\$154.45
Crack Sealing	61	350.50	\$8,596.95	\$8,097.50	\$4,587.00	\$21,281.45
Creek Maintenance	38	137.00	\$3,524.64	\$10,489.50	\$0.00	\$14,014.14
Crushing/Mixing Materials	3	8.00	\$206.03	\$625.00	\$0.00	\$831.03
Curb/Gutter Repair	55	194.00	\$4,867.79	\$6,822.50	\$103.75	\$11,794.04
Equipment Maintenance/Repair	149	433.50	\$11,065.00	\$1,432.50	\$0.00	\$12,497.50
Facility Improvements	22	91.50	\$2,370.03	\$1,232.50	\$3.50	\$3,606.03
Gutter - Cleaning	4	13.00	\$353.22	\$360.00	\$0.00	\$713.22
Haul Materials	44	262.00	\$6,533.48	\$25,990.00	\$71.37	\$32,594.85
Inspections/Contractor	1	1.00	\$26.20	\$30.00	\$0.00	\$56.20
Janitorial	30	44.50	\$1,296.07	\$0.00	\$0.00	\$1,296.07
Leave	509	2,866.75	\$70,700.06	\$0.00	\$0.00	\$70,700.06
Manhole Adjustments	3	14.00	\$347.20	\$655.00	\$0.00	\$1,002.20
Meetings/Conferences	59	186.50	\$5,083.87	\$1,812.50	\$0.00	\$6,896.36
Milling	14	56.00	\$1,464.94	\$4,170.00	\$10.50	\$5,645.44
Misc	90	243.00	\$7,158.53	\$1,802.50	\$376.79	\$9,337.82
Mowing/Ground Maintenance	7	13.00	\$324.90	\$535.00	\$0.00	\$859.90
Painting	1	2.00	\$52.40	\$0.00	\$0.00	\$52.40
Painting/Striping	48	284.50	\$7,127.54	\$11,755.00	\$3,506.81	\$22,389.35
Patching For Overlay	1	3.50	\$80.22	\$350.00	\$0.00	\$430.22
Paving	2	5.00	\$131.00	\$375.00	\$0.00	\$506.00
Pothole Repairs	68	275.00	\$7,024.34	\$9,202.50	\$13,131.18	\$29,358.02
Public Service	16	29.00	\$715.35	\$647.50	\$10.50	\$1,373.35
Pubworks	1	3.00	\$97.53	\$0.00	\$0.00	\$97.53
Recycling Center - General Labor	523	1,740.00	\$40,227.66	\$170,140.00	\$0.00	\$210,367.66
Right Of Way	1	3.00	\$78.60	\$90.00	\$0.00	\$168.60
Rus - General Labor	302	994.00	\$16,730.44	\$81,307.50	\$0.00	\$98,037.94
Sanding (ice)	43	170.75	\$4,445.84	\$15,682.50	\$9,731.10	\$29,859.44
Saw Cut Asphalt/Concrete	7	18.50	\$468.64	\$1,035.00	\$0.00	\$1,503.64
Sign Repair/Maintenance	118	353.00	\$9,185.82	\$10,567.50	\$3,629.75	\$23,383.07
Snow Removal	221	1,130.00	\$31,488.79	\$105,642.50	\$1,075.80	\$138,207.09
Storm Clean-Up	50	275.50	\$7,616.46	\$17,001.25	\$0.00	\$24,617.71
Storm Sewer Lines	21	80.00	\$2,124.55	\$4,455.00	\$0.00	\$6,579.55
Street Inspections	108	199.50	\$6,365.84	\$5,325.00	\$0.00	\$11,690.84
Street Sweeping	133	882.00	\$22,158.74	\$82,617.50	\$0.00	\$104,776.24
Training	42	73.00	\$1,893.99	\$90.00	\$0.00	\$1,983.99
Trees Trim/Remove/Planting	278	1,074.00	\$24,699.21	\$63,704.00	\$0.00	\$88,403.21
Weed Spraying	16	52.00	\$1,344.76	\$1,285.00	\$0.00	\$2,629.76
Yardwaste Site-General Labor	56	171.75	\$4,512.95	\$12,956.25	\$0.00	\$17,469.20
<b>Tasks:</b>	<b>4,540.00</b>	<b>19,338.50</b>	<b>\$ 482,060.37</b>	<b>\$ 939,194.25</b>	<b>\$ 62,002.20</b>	<b>\$ 1,483,256.82</b>

# STREETS - Job Task Breakout

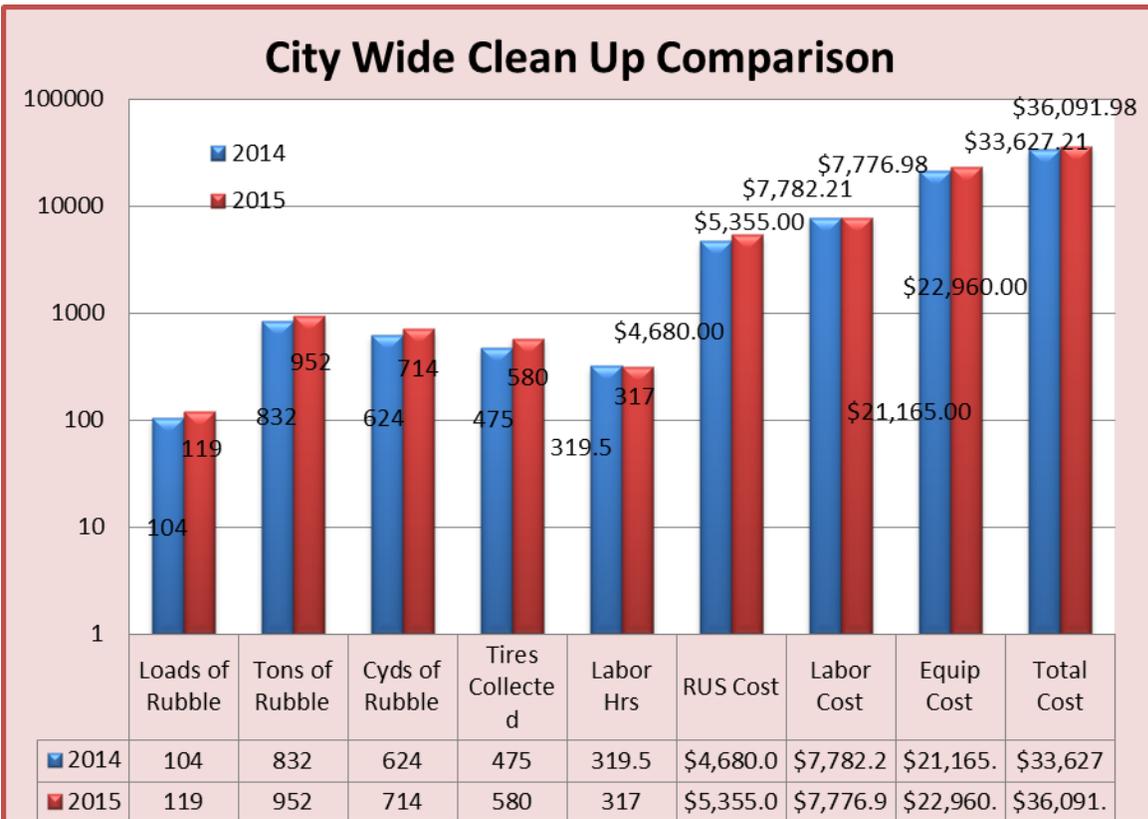
## 2015



\* Percentages are based on Pubworks sheets and may not be

## 2015 City Wide Clean Up Cost May 11- 14, 2015

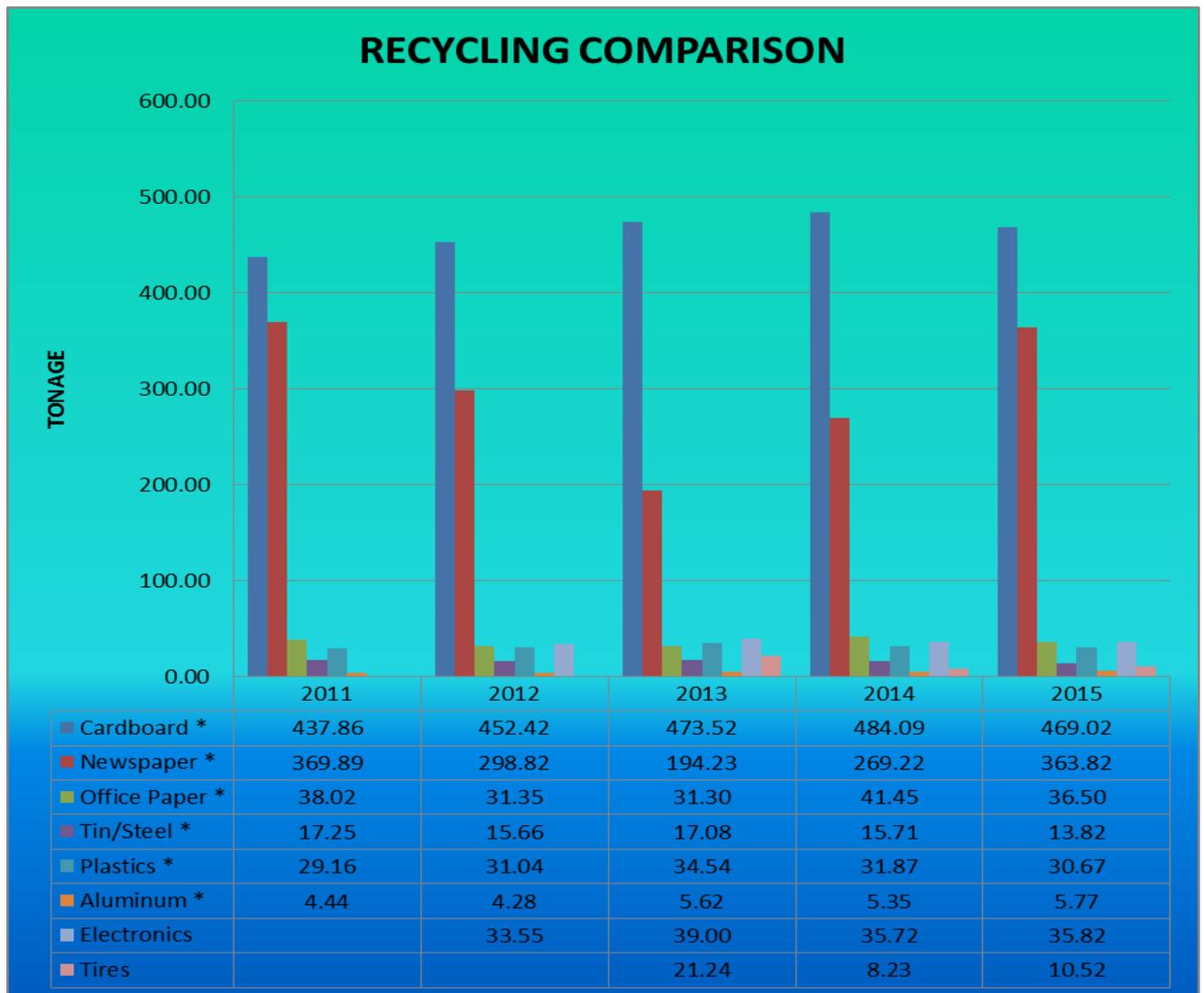
	<u>2014</u>	<u>2015</u>
Loads of Rubble	104	119
Tons of Rubble	832	952
Cyds of Rubble	624	714
Tires Collected	475	580
Labor Hrs	319.5	317
RUS Cost	\$4,680.00	\$5,355.00
Labor Cost	\$7,782.21	\$7,776.98
Equip Cost	\$21,165.00	\$22,960.00
Total Cost	\$33,627.21	\$36,091.98



## Madison Recycling Center Quantity Collected

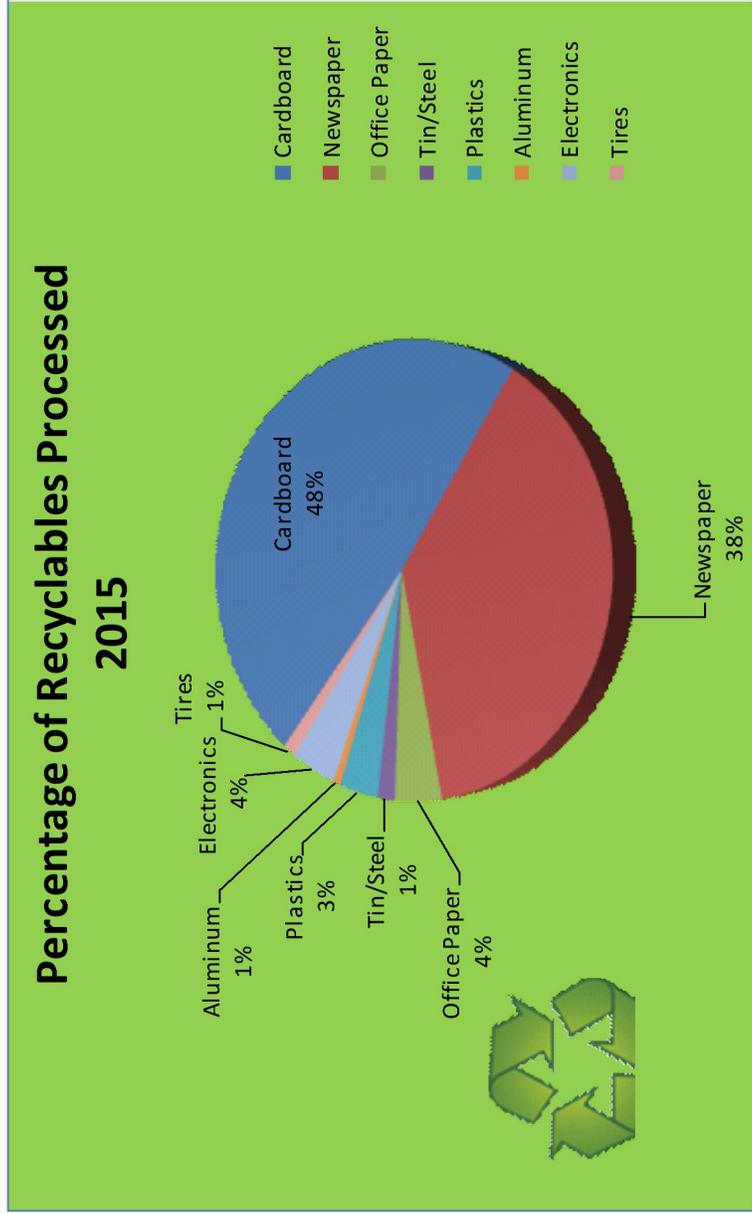
	2011	2012	2013	2014	2015
<b>Cardboard *</b>	437.86	452.42	473.52	484.09	469.02
<b>Newspaper *</b>	369.89	298.82	194.23	269.22	363.82
<b>Office Paper *</b>	38.02	31.35	31.30	41.45	36.50
<b>Tin/Steel *</b>	17.25	15.66	17.08	15.71	13.82
<b>Plastics *</b>	29.16	31.04	34.54	31.87	30.67
<b>Aluminum *</b>	4.44	4.28	5.62	5.35	5.77
<b>Electronics</b>		33.55	39.00	35.72	35.82
<b>Tires</b>			21.24	8.23	10.52
<b>TOTALS</b>	<b><u>896.62</u></b>	<b><u>867.12</u></b>	<b><u>816.52</u></b>	<b><u>891.64</u></b>	<b><u>965.93</u></b>

\* items processed by ECCO, Inc staff



### 2015 Recycling Center Tonnage Amounts

	<u>Jan</u>	<u>Feb</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>Aug</u>	<u>Sept</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Total Lbs</u>	<u>Total Tons</u>
Cardboard	81495	69865	73395	79805	87520	86870	80565	79630	87135	74275	64030	73461	938,046	<b>469.02</b>
Newspaper	53125	52165	52480	74000	61840	61900	42520	73869	70575	55851	44475	84845	727,645	<b>363.82</b>
Office Paper	3840	7065	5245	9955	6210	8665	5695	7270	5405	5460	4120	4065	72,995	<b>36.50</b>
Tin/Steel	3575	1325	2615	2665	2590	1250	2440	2380	2480	2430	1270	2615	27,635	<b>13.82</b>
Plastics	6445	4310	4115	5425	6625	1845	6175	7650	5850	5275	4735	2880	61,330	<b>30.67</b>
Aluminum	1305	700	660	1440	675	670	1230	1420	1330	690	720	700	11,540	<b>5.77</b>
Electronics				39238						32398			71,636	<b>35.82</b>
Tires								21040					21,040	<b>10.52</b>



# City of Madison Public Works

## Project Cost Comparison Summary

Reporting Dates Year 2015

Sorted by Project Number

Project Number / Name	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Overhead Cost	Total Cost	Unit Costs	Completion Status/Active
215 2015 IP Project SE 4th Street	\$941.58	\$2,615.00	\$0.00	\$0.00	\$0.00	\$3,556.58	\$0	Y 100% Y
300 Christmas Tree Project	\$2,867.44	\$1,807.50	\$3,828.71	\$0.00	\$0.00	\$8,503.65	\$0	N 0% Y
430 Water Line hit by Reinicke Const.	\$1,091.77	\$1,237.50	\$0.00	\$0.00	\$0.00	\$2,329.27	\$0	Y 100% Y
432 WMB SE 2nd and S Harth 1/5/15	\$1,035.37	\$2,192.50	\$42.00	\$0.00	\$0.00	\$3,269.87	\$0	Y 100% Y
433 WMB - 915 NE 6	\$164.24	\$486.25	\$100.00	\$0.00	\$0.00	\$750.49	\$0	Y 100% Y
434 WMB 419 S. Washington	\$2,339.17	\$3,875.00	\$36.75	\$0.00	\$0.00	\$6,250.92	\$0	Y 100% Y
435 WMB NW 4th & Olive	\$1,283.35	\$2,312.50	\$508.00	\$0.00	\$0.00	\$4,103.85	\$0	Y 100% Y
436 WMB 612 NW 5th	\$1,139.70	\$2,130.00	\$111.50	\$0.00	\$0.00	\$3,381.20	\$0	Y 100% Y
437 WMB 800 Blk SW 7th	\$810.40	\$1,980.00	\$167.25	\$0.00	\$0.00	\$2,957.65	\$0	Y 100% Y
512 Sign Reflectivity	\$551.85	\$720.00	\$64.50	\$0.00	\$0.00	\$1,336.35	\$0	Y 100% Y
513 Seal Coating/Chip Sealing	\$10,715.41	\$30,073.50	\$0.00	\$0.00	\$0.00	\$40,788.91	\$0	N 100% Y
901 BB Teener Field	\$1,040.90	\$4,863.50	\$84.00	\$0.00	\$0.00	\$5,988.40	\$0	N 0% Y
904 FF Archway Sign	\$256.87	\$230.00	\$0.00	\$0.00	\$0.00	\$486.87	\$0	N 0% Y

**Grand Total**

**Projects: 13**

**\$24,238.04**

**\$54,523.25**

**\$4,942.71**

**\$0.00**

**\$0.00**

**\$83,704.00**

