

2009 NO HAZ program estimated costs - using donation account money for latex paint

Municipality	Population (2000 census)	% of population	admin fee based on population	# of cars	% of participation	admin fee based on participation	disposal fee HHW	pounds of e-waste	disposal fee e-waste	total amount for program
			\$32,433.00			\$32,433.00	\$32.25	38.63		
Addison	6,439	2.11%	\$683.23	104	1.69%	\$546.77	\$3,354.00	4,018	\$602.63	\$5,186.63
Brandon	14,765	4.83%	\$1,566.68	358	5.80%	\$1,882.15	\$11,545.50	13,830	\$2,074.43	\$17,068.77
Commerce	34,764	11.37%	\$3,688.73	409	6.63%	\$2,150.28	\$13,190.25	15,800	\$2,369.95	\$21,399.21
Groveland	6,150	2.01%	\$652.56	75	1.22%	\$394.31	\$2,418.75	2,897	\$434.59	\$3,900.21
Lake Angelus	323	0.11%	\$34.27	34	0.55%	\$178.75	\$1,096.50	1,313	\$197.01	\$1,506.54
Oakland	13,071	4.28%	\$1,386.93	491	7.96%	\$2,581.39	\$15,834.75	18,967	\$2,845.10	\$22,648.18
Orion	33,463	10.95%	\$3,550.68	868	14.07%	\$4,563.44	\$27,993.00	33,531	\$5,029.63	\$41,136.75
Oxford	16,025	5.24%	\$1,700.38	359	5.82%	\$1,887.41	\$11,577.75	13,868	\$2,080.23	\$17,245.76
Rochester	10,467	3.42%	\$1,110.63	359	5.82%	\$1,887.41	\$11,577.75	13,868	\$2,080.23	\$16,656.02
Rochester Hills	68,825	22.52%	\$7,302.87	1845	29.91%	\$9,699.93	\$59,501.25	71,272	\$10,690.85	\$87,194.90
Waterford	73,150	23.93%	\$7,761.78	878	14.23%	\$4,616.01	\$28,315.50	33,917	\$5,087.57	\$45,780.86
White Lake	28,219	9.23%	\$2,994.25	389	6.31%	\$2,045.13	\$12,545.25	15,027	\$2,254.06	\$19,838.70
	305,661	100.00%	\$32,433.00	6,169	100.00%	\$32,433.00	\$198,950.25	238,308.47	\$35,746.27	\$299,562.52

- (1.) **This is only an estimate.** The actual costs will be determined by which communities are members of NO HAZ in 2009, the number of participants in the program from each of the member communities, and the amount of e-waste collected.
- (2.) The cost per vehicle is \$32.25. This includes a \$.25 contingency fee and does not include the cost for latex paint.
- (3.) There is an additional cost of \$2.75 per vehicle for the latex paint, which is being covered by the NO HAZ donation account.
- (4.) The total administration fee is \$64,866, which includes 4 collection events.
- (5.) The number of participants is estimated using the 2008 number of participants and adding 42%, which is the average increase in participation from 2004-2008.
- (6.) Computer and electronic equipment estimate is based on 38.63 pounds per vehicle which is the average from the 2008 collections.
- (7.) One person from each community is required to work at each of the collection events. Costs for this person are not factored into this estimate. Failure to provide a volunteer will result in charges as outlined in the Interlocal agreement. These costs are not factored into this estimate. A representative from each community is also needed to attend meetings. These are held 3-4 times per year. Costs for this person are not factored into this estimate.



**2008
NO HAZ
Program Report**

City of Rochester Hills

Collections	Vehicles	# of Electronics	Households	Vehicle fee	Electronics fee	Total
				(\$31.58 each)	(\$0.15 per pound)	
May 31st - Oakland University	860	346	1222	\$27,158.80	\$4,622.56	\$31,781.36
Sept. 8th - OCC Highland Lakes	61	28	79	\$1,926.38	\$323.40	\$2,249.78
Oct. 20th - Orion Commerce Center	378	185	469	\$11,937.24	\$2,591.85	\$14,529.09
TOTAL	1299	559	1770	\$41,022.42	\$7,537.81	\$48,560.23

Administrative fee	
Based on Population (\$27,422.50)	
Total Population	305,661
Your Population	68,825
% of Population	22.52%
Administration fee for Population	\$6,174.60
Based on Participants (\$25,561.16)	
Total Participants	4,344
Your Participants	1,299
% of Participants	29.90%
Administration fee for Participants	\$7,643.64
TOTAL ADMINISTRATION FEE	\$13,818.24

SURVEY RESULTS

Rochester Hills had a 148% increase in participation over 2007.

64% of Rochester Hills participants responded that they were using the NO HAZ program for the first time.

773 Rochester Hills residents have signed up to receive notices about NO HAZ.

COST OF 2008 PROGRAM

\$62,378.47

2008 NO HAZ program costs

Municipality	Population (2000 census)	% of population	admin fee based on population	Cars	% of participation	admin fee based on # of cars	HHW disposal fee	E-waste disposal fee	total amount for program
			\$27,422.50			\$25,561.17	\$31.58		
Addison	6,439	2.107%	\$577.67	73	1.68%	\$429.55	\$2,305.34	\$351.54	\$3,664.10
Brandon	14,765	4.830%	\$1,324.63	252	5.80%	\$1,482.83	\$7,958.16	\$1,287.03	\$12,052.66
Commerce	34,764	11.373%	\$3,118.84	288	6.63%	\$1,694.66	\$9,095.04	\$1,547.07	\$15,455.61
Groveland	6,150	2.012%	\$551.74	53	1.22%	\$311.87	\$1,673.74	\$278.66	\$2,816.01
Lake Angelus	326	0.107%	\$29.25	24	0.55%	\$141.22	\$757.92	\$159.95	\$1,088.34
Oakland	13,071	4.276%	\$1,172.66	346	7.97%	\$2,035.95	\$10,926.68	\$2,244.75	\$16,380.04
Orion	33,463	10.948%	\$3,002.12	611	14.07%	\$3,595.28	\$19,295.38	\$4,112.15	\$30,004.92
Oxford	16,025	5.243%	\$1,437.68	253	5.82%	\$1,488.71	\$7,989.74	\$1,675.61	\$12,591.74
Rochester	10,467	3.424%	\$939.04	253	5.82%	\$1,488.71	\$7,989.74	\$1,355.40	\$11,772.90
Rochester Hills	68,825	22.517%	\$6,174.60	1,299	29.90%	\$7,643.64	\$41,022.42	\$7,537.81	\$62,378.47
Waterford	73,150	23.932%	\$6,562.62	618	14.23%	\$3,636.46	\$19,516.44	\$3,389.45	\$33,104.97
White Lake	28,219	9.232%	\$2,531.65	274	6.31%	\$1,612.28	\$8,652.92	\$1,230.36	\$14,027.22
	305,664	100.00%	\$27,422.50	4,344	100.00%	\$ 25,561.17	\$137,183.52	\$25,169.78	\$215,336.97

Any charges applied for not providing a worker at a collection event are not included in this spreadsheet.

Summary of NO HAZ Program participation and costs
2003-2008

Community	2003 (# of households)	2003 costs (disposal & admin.)	2004 (# of households)	2004 costs (disposal & admin.)	2005 (# of households)	2005 costs (disposal & admin.)
Addison Township	7	\$2,366.00				
Brandon Township	31	\$6,569.00	47	\$4,990.57	38	\$2,818.43
Commerce Township	174	\$20,746.00	189	\$13,680.59	156	\$9,673.54
Groveland Township	7	\$2,209.00	11	\$1,804.82	31	\$1,866.67
City of Orchard Lake	23	\$2,019.00	18	\$1,075.54	15	\$847.40
Oxford Township	34	\$7,017.00	33	\$5,054.25		\$0.00
City of Pontiac	23	\$21,304.00	45	\$16,727.30	70	\$8,063.78
City of Rochester	120	\$7,872.00	54	\$3,708.00	94	\$5,059.87
City of Rochester Hills	224	\$32,422.00	287	\$24,986.67	637	\$34,134.22
Waterford Township	288	\$19,215.00	322	\$26,084.43	265	\$17,466.95
White Lake Township	151	\$10,780.00	112	\$9,706.40	106	\$6,910.39
(other communities)	39	\$8,931.00	22	\$2,642.52		
TOTALS	1,114	\$139,084.00	1,140	\$110,461.09	1,412	\$86,841.25
Total pounds collected	94,446		62,107		53,393	

Community	2006 (# of vehicles)	2006 costs* (disposal & admin.)	2007 (# of vehicles)	2007 costs (disposal & admin.)	2008 (# of vehicles)	2008 costs (disposal & admin.)
Addison Township		\$0.00	51	\$2,927.51	73	\$3,664.10
Brandon Township	41	\$3,215.78		\$0.00	252	\$12,052.66
Commerce Township	112	\$8,445.44	197	\$12,065.30	288	\$15,455.61
Groveland Township	14	\$1,181.57	33	\$2,015.84	53	\$2,816.01
Lake Angelus		\$0.00		\$0.00	24	\$1,088.34
Oakland Township	190	\$11,340.65	234	\$12,255.20	346	\$16,380.04
City of Orchard Lake	8	\$591.91		\$0.00		\$0.00
Orion Township	266	\$16,903.94	408	\$22,329.66	611	\$30,004.92
Oxford Township	110	\$7,107.95	177	\$9,711.96	253	\$12,591.74
City of Pontiac	48	\$7,520.85	86	\$8,621.24		\$0.00
City of Rochester	89	\$5,401.98	125	\$6,736.74	253	\$11,772.90
City of Rochester Hills	406	\$26,651.85	523	\$30,546.41	1,299	\$62,378.47
Waterford Township	261	\$19,001.88	524	\$30,236.17	618	\$33,104.97
White Lake Township	100	\$7,389.73	235	\$13,203.99	274	\$14,027.22
TOTALS	1,645	\$114,753.53	2,593	\$150,650.02	4,344	\$215,336.98
Total pounds collected	101,753		226,071		542,109	

Summary of NO HAZ Program participation and costs
2003-2008

2008 NO HAZ Year End Collection Report

Municipality	Participants (cars)	Participants (households)	Percent of Total Participation	Population	Percent of Municipality's Population	Households	Percent of Municipality's Households
Addison	73	96	1.65%	6,439	1.49%	2,298	4.18%
Brandon	252	285	4.89%	14,765	1.93%	5,549	5.14%
Commerce	288	340	5.84%	34,764	0.98%	14,050	2.42%
Groveland	53	55	0.94%	6,150	0.89%	2,106	2.61%
Lake Angelus	24	35	0.60%	326	10.74%	132	26.52%
Oakland	346	416	7.14%	13,071	3.18%	4,341	9.58%
Orion	611	833	14.30%	33,463	2.49%	13,444	6.20%
Oxford	253	361	6.20%	16,025	2.25%	7,189	5.02%
Rochester	253	337	5.79%	10,467	3.22%	4,667	7.22%
Rochester Hills	1299	1770	30.39%	68,825	2.57%	26,315	6.73%
Waterford	618	877	15.06%	73,150	1.20%	29,387	2.98%
White Lake	274	420	7.21%	28,219	1.49%	10,092	4.16%
TOTAL	4344	5825	100.00%	305,664		119,570	

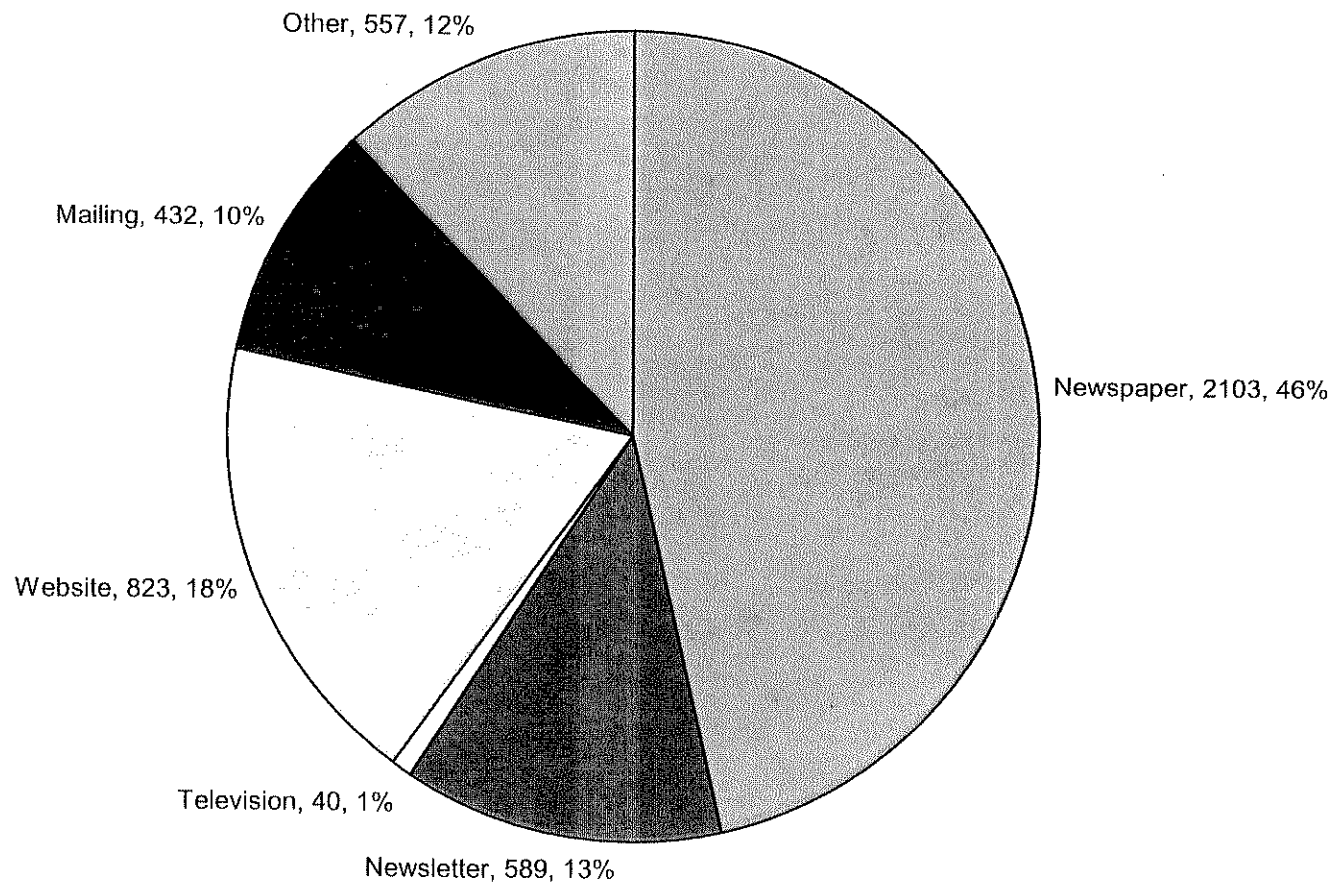
Collection Date	Location	Cars	Donations	Regular HHW	Electronics	Total (lbs.)
May 31, 2008	Rochester	1748	\$5,702.24	163,517	65,111	228,628
September 6, 2008	Waterford	1069	\$3,680.42	103,570	36,190	139,760
October 4, 2008	Orion	1527	\$5,202.61	107,211	66,510	173,721
TOTAL		4,344	\$14,585.27	374,298	167,811	542,109

Year	Pounds Per Car	Pounds Per Household	Total Participation (Households)
2008	124.7	93.1	4.872%
2007	87.2	68.3	2.377%
2006	61.9	46.5	1.561%
2005	N/A	37.2	1.230%
2004	N/A	54.5	0.910%
2003	N/A	84.3	0.845%

NO HAZ MATERIAL COLLECTION DATABASE

MATERIAL	2003	2004	2005	2006	2007	2008	Total
<i>Pounds Collected</i>							<i>(Pounds)</i>
Flammable Liquid	11,121	Data Not Available	19,382	21,082	17,995	18,517	88,097
Oil-based Paint	49,620		6,553	-	23,015	58,838	138,026
Latex Paint	-		-	-	-	192,272	192,272
Aerosols	4,369		2,685	2,874	5,265	10,286	25,479
Acids	1,220		1,282	1,518	2,037	3,350	9,407
Caustics/Oxidizers	269		1,294	1,551	1,881	1,929	6,924
Neutral Products	-		2,315	2,283	8,786	8,288	21,672
Herbicide/Pesticide	12,636		3,968	4,266	8,299	10,267	39,436
Antifreeze	4,579		3,647	4,529	6,343	8,784	27,882
Oil	-		-	1,164	31,848	22,341	55,353
Propane tanks	4,406		3,967	3,889	4,345	8,729	25,336
Refrigerant Gas	-		35	20	-	-	55
Fire Extinguishers	-		399	76	96	-	571
Electronics	-		18	44,165	84,455	167,811	296,449
Lead-Acid Batteries	188		2,838	7,494	21,573	19,115	51,208
Household Batteries	2,699		4,287	6,040	8,225	7,076	28,327
Flourescent Lamps	-		462	687	1,082	1,111	3,342
Flares	-		18	22	13	-	53
Medical Waste	-		-	38	105	534	677
Mercury Devices	6		50	55	35	120	266
Bases	1,442	-	-	-	2,656	4,098	
Light Ballasts	100	193	-	63	85	441	
Miscellaneous	1,781	-	-	610	-	2,391	
TOTAL	94,436	62,107	53,393	101,753	226,071	542,109	1,079,869
							<i>Lamps</i>
<i>Fluorescent Lamps(#)</i>	10	200					210

How Learned of Collection



Distance Traveled

