



# Adams County Household Chemical Roundup Program

2010 Annual Report

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## Executive Summary

The Adams County Household Chemical Roundup Program serves the residents of Adams County, including the Cities of Commerce City, Federal Heights, and Thornton, by providing an opportunity for the disposal of hazardous chemicals from their homes in a safe, legal, and environmentally-sound manner. This provides an outlet for wastes that might otherwise end up in our creeks, stormwater systems, sanitary sewers, and septic systems, or be disposed of illegally on public or private property. Removing these products from residents' homes also reduces the potential for accidental poisoning. Throughout the year, the Household Chemical Roundup Program provides information to the public about ways to reduce the generation of household hazardous waste, including ways to recycle and dispose of items that should not be poured down the drain or put in the trash. The Adams County Household Chemical Roundup Program is operated by the Tri-County Health Department under contract to sponsoring jurisdictions including Adams County, and the Cities of Commerce City, Federal Heights, and Thornton.

In 2010, the Program operated two Household Chemical Roundups. The Household Chemical Roundups are one-day events where household hazardous wastes are collected from homeowners in Adams County. A total of 887 vehicles participated in the Roundups, collecting waste from an estimated 1,020 households. Over 45 tons of hazardous materials were collected, including 2,583 gallons of hazardous liquids (oil, antifreeze, flammable liquids, and reactive chemicals), 5,448 pounds of pesticides, 225 pounds of products containing mercury, and over 30 tons of paint and paint products. An additional 211 tires, 231 gas cylinders, 147 automotive batteries, and 21,177 pounds of electronic waste were also recycled.

By inviting new waste recycling vendors to collect materials at the Roundups, the 2010 Adams County Household Chemical Roundup Program was able to expand recycling efforts and increase cost-savings throughout the year. New vendors included in the 2010 Roundups were Mix Paints, which recycled approximately 500 gallons of latex paint collected at the Roundups, and Interstate Batteries, which recycled over 4,000 lbs. of automotive batteries, rechargeable batteries, and alkaline batteries. These innovative companies provided their recycling services free of charge, and the Program was compensated for the total weight of automotive batteries collected. The Adams County Household Chemical Roundup Program looks forward to working with Mix Paints and Interstate Batteries again in 2011, and will continue to seek out additional ways of expanding recycling and reducing disposal costs.

Although the 2010 program year saw increases in event participation and waste collection, the 2010 Household Chemical Roundup Program was able to reduce total program costs by \$13,821.93. The program incurred \$93,721.59 in expenses which includes a \$51,378.57 disposal cost for hazardous and non-hazardous waste from the two events. The cost to sponsoring jurisdictions was offset by participants' donations of \$10,481.64 (about \$11.82 per vehicle) and a contribution of \$1,331.50 from Darling International Inc. Total program cost per participating household for the 2010 Adams County Household Chemical Roundup season was \$79.62.

The Household Chemical Roundup Program's success is dependent on the support of numerous agencies, corporations, and individuals. Sponsoring agencies include the Cities of Commerce City, Federal Heights, Thornton, and Adams County. The following organizations also contribute significant resources to the Program: Darling International Inc., Hyland Hills Park and Recreation District, South Adams County Water and Sanitation District, and Starbucks Coffee Company. Please thank them for their contribution to the Program.

The Tri-County Health Department looks forward to operating the Adams County Household Chemical Roundup Program again in 2011, and will strive to continue offering high-quality services to its citizens in the most efficient manner possible.

***Attachments:***

- *A. Participation Summary*
- *B. Waste Collection Summary*
- *C. Financial Statement*

## Attachment A. Participation Summary

A total of 887 vehicles participated in the Household Chemical Roundups, collecting waste from an estimated 1,020 households (it is estimated that each vehicle brings wastes from 1.15 households). A complete list of how many households participated (per sponsoring jurisdiction) is presented in Figure 1 below. Figure 2 shows annual participation at the Household Chemical Roundup events from 2000 – 2010.

Figure 1. Participation Summary

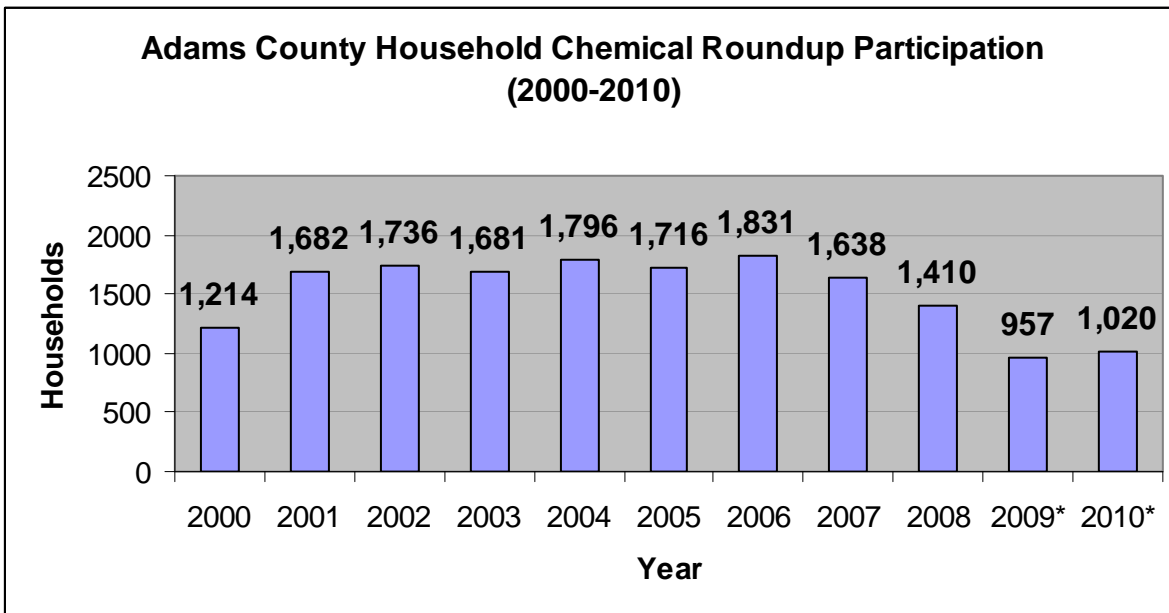
Participating Households	2008*	2009	2010	Water World 2010	Thornton IMC 2010
Adams County	343	266	263	153	110
Brighton**	137	98	N/A	N/A	N/A
Commerce City	104	70	62	36	26
Federal Heights	50	36	67	54	13
Northglenn***	270	N/A	N/A	N/A	N/A
Thornton	494	469	615	285	330
Other	12	18	13	7	6
<b>Total Participating Households</b>	<b>1,410</b>	<b>957</b>	<b>1,020</b>	<b>535</b>	<b>485</b>

\*Three events were held in 2008. Only two events were held in 2009 and 2010.

\*\*City of Brighton was not a sponsoring jurisdiction in 2010. As a result, Brighton residents were ineligible to participate in the 2010 events.

\*\*\*City of Northglenn was not a sponsoring jurisdiction in 2009 and 2010. As a result, Northglenn residents were ineligible to participate in the 2009 and 2010 events.

Figure 2. Household Chemical Roundup Participation (2000-2010)



\*Only 2 events were held in 2009 and 2010. Three events were held all other years.

## Attachment B. Waste Collection Summary

Over 45 tons of hazardous materials were collected at the Roundup events in 2010, including 2,471 gallons of hazardous liquids (oil, antifreeze, flammable liquids, and reactive chemicals), 5,448 pounds of pesticides, 225 pounds of mercury-containing devices, and over 30 tons of paint and paint products. An additional 147 tires, 231 gas cylinders, 147 automotive batteries, and 21,177 pounds of electronic waste were also recycled.

Figure 3. Waste Collection Summary

Waste Type	Unit	2009 Total	2010 Total	Water World 2010	Thornton IMC 2010
Acids	<i>Gal.</i>	156	112	56	56
Aerosol Cans	<i>Lbs.</i>	1,600	1,600	700	900
Antifreeze	<i>Gal.</i>	270	362	193	169
Bases/Caustics	<i>Gal.</i>	150	151	95	56
Flammable Materials (liquids)	<i>Gal.</i>	474	725	325	400
Flammable Materials (solids)	<i>Lbs.</i>	5	90	85	5
Mercury	<i>Lbs.</i>	65	225	105	120
Paint Products*	<i>Lbs.</i>	41,475	61,800	35,900	25,900
Pesticides/Herbicides (liquids)	<i>Gal.</i>	575	506	253	253
Pesticides/Herbicides (solids)	<i>Lbs.</i>	1,231	1,400	700	700
Toxic chemicals n.o.s.** (solids)	<i>Lbs.</i>	292	630	295	335
Used Motor Oil	<i>Gal.</i>	1,530	1,233	633	600
Scrap Metal	<i>Lbs.</i>	400	400	200	200
Gas Cylinder	<i>Each</i>	249	231	146	85
Tires	<i>Each</i>	324	211	117	94
Vehicle Batteries	<i>Each</i>	163	147	92	55
Electronic Waste	<i>Lbs.</i>	19,512	21,177	9,276	11,901
<b>Total Waste Collected (Excluding Latex Paint)***</b>	<b><i>Lbs.</i></b>	<b>36,333</b>	<b>45,960</b>	<b>23,228</b>	<b>22,732</b>
<b>Total Waste Collected***</b>	<b><i>Lbs.</i></b>	<b>67,833</b>	<b>90,460</b>	<b>50,228</b>	<b>40,232</b>

\*Paint quantities are calculated using an estimation of 450 lbs/cuyd.

\*\*n.o.s. - not otherwise specified

\*\*\*Waste totals do not include scrap metal, gas cylinders, tires, vehicle batteries, or electronic waste.

## Attachment C. Financial Statement

Financial information for the 2010 Adams County Household Chemical Roundup Program is summarized below. The statement reflects expenses incurred by the Tri-County Health Department from November 1, 2009 through October 31, 2010.

<b>ADAMS COUNTY HOUSEHOLD CHEMICAL ROUNDUP PROGRAM</b>		
<b>FY 2010 EXPENSE AND REVENUE SUMMARY</b>		
<b><u>REVENUES</u></b>		
Adams County	\$	21,218.82
Commerce City	\$	5,195.98
Federal Heights	\$	5,562.22
Thornton	\$	49,235.91
Darling International, Inc.	\$	1,331.50
Interstate Batteries	\$	695.70
Participant Donations (Water World)	\$	5,469.05
Participant Donations (Thornton IMC)	\$	5,012.41
<b>TOTAL REVENUES</b>	<b>\$</b>	<b>93,721.59</b>
<b><u>EXPENSES</u></b>		
<b>Personnel Costs</b>	<b>\$</b>	<b>28,941.82</b>
<b>Operating Expenses and Supplies</b>		
Postage	\$	-
Equipment Rental	\$	720.00
Local Travel	\$	824.35
Vehicle Maintenance and Repairs	\$	127.95
Vehicle Gas & Oil	\$	200.50
Staff Education	\$	-
Membership and License Fees	\$	37.50
Subscriptions	\$	100.00
Printing, Out Side	\$	1,137.30
Publicity	\$	435.35
Business Meetings	\$	1,107.30
Environmental Supplies	\$	86.25
Office Supplies	\$	39.97
<b>Subtotal Expenses and Supplies</b>	<b>\$</b>	<b>4,816.47</b>
<b>Services</b>		
Hazardous Waste Disposal (Water World)	\$	26,883.42
Hazardous Waste Disposal (Thornton IMC)	\$	22,770.65
Waste & Records Disposal	\$	1,724.50
Legal	\$	-
Laboratory Analysis	\$	-
General	\$	-
<b>Subtotal Services</b>	<b>\$</b>	<b>51,378.57</b>
<b>Indirect</b>	<b>\$</b>	<b>8,584.73</b>
<b>TOTAL EXPENSES</b>	<b>\$</b>	<b>93,721.59</b>
<b>NET (REVENUES - EXPENSES)</b>	<b>\$</b>	<b>-</b>