

Douglas County Household Chemical Roundup Program

2009 Annual Report

Executive Summary

The Douglas County Household Chemical Roundup Program serves the residents of Douglas County 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 others' 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.

In 2009, the Program operated three, one-day Household Chemical Roundup events to collect household hazardous wastes from homeowners. A total of 1,900 vehicles participated in the Roundups, collecting waste from an estimated 2,185 households. Over 84 tons of hazardous materials were collected, including 4,818 gallons of hazardous liquids (oil, antifreeze, flammable liquids, and reactive chemicals), 11,085 pounds of pesticides, 405 pounds of mercury-containing devices and mercury-contaminating waste, and more than 66 tons of paint and paint products. In addition, 545 tires, 435 gas cylinders, and 539 automotive batteries were also recycled. A complete summary of participation and wastes collected is included in Attachments A and B.

The success of the Douglas County Household Chemical Roundup Program is dependent on the support of numerous agencies and individuals. Sponsoring agencies included Douglas County; Castle Pines North Metro District; Centennial Water and Sanitation District; Cherry Creek South Metro District; High Prairie Farms Metro District; Inverness Water and Sanitation District; Metro District of Highlands Ranch; Parker Water and Sanitation District; Perry Park Water and Sanitation District; Plum Creek Wastewater Authority; Roxborough Water and Sanitation District; South Metro Fire Rescue Authority; Town of Castle Rock; and the Town of Parker. In addition, the following organizations provided considerable support to the Program: Colorado State University's Cooperative Extension Master Gardeners in Douglas County, Douglas County Sheriff's Office Environmental Hazards Section, Regional Air Quality Council, Starbucks Coffee Company, and Waste Connections; please thank them for their contribution to the Program. Individual participants at the Roundups also donated \$34,069.40 to the Program (about \$17.93 per vehicle).

The Tri-County Health Department looks forward to operating the Douglas County Household Chemical Roundup Program again in 2010, and will strive to continue offering high-quality services to its residents in the most efficient manner possible.

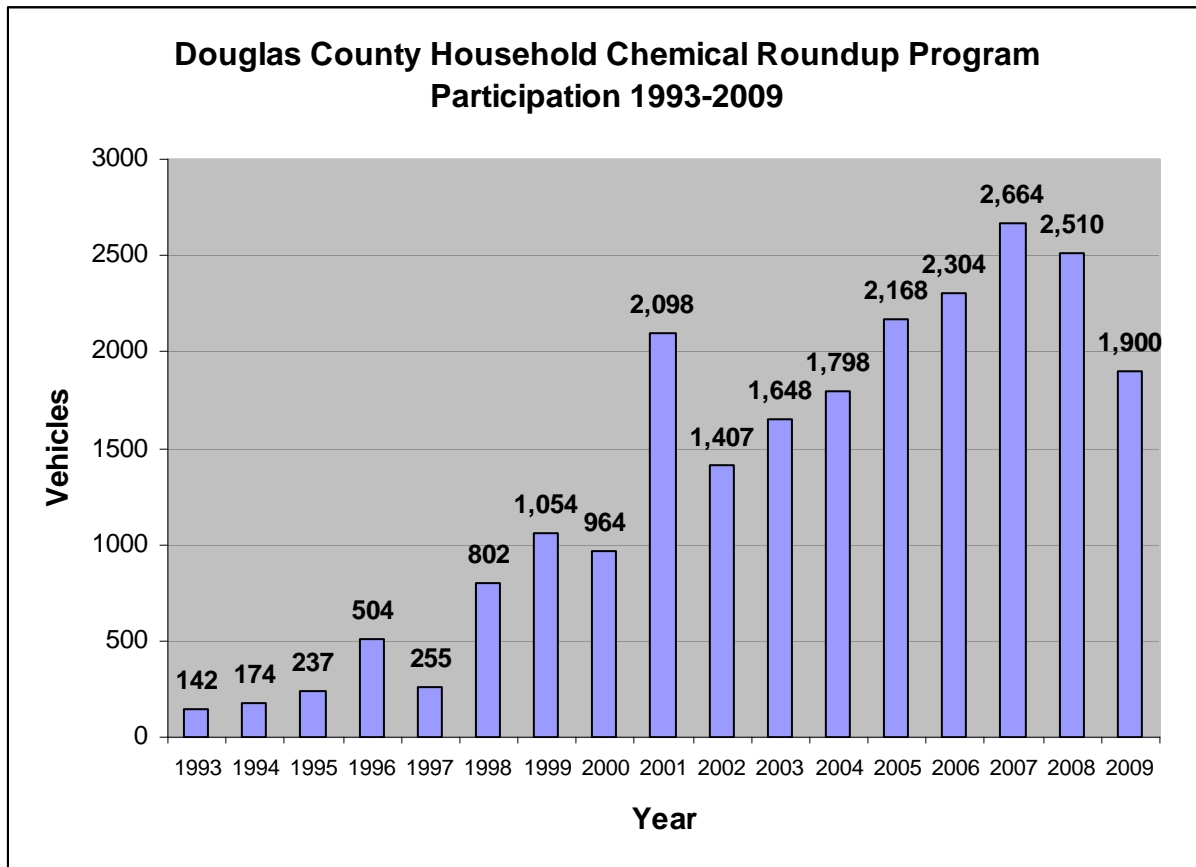
Attachments:

- *A. Participation Summary*
- *B. Waste Collection Trends and Summary*

Attachment A. Participation Summary

A total of 1,900 vehicles participated in the Roundups, collecting waste from an estimated 2,185 households. This includes 388 vehicles from the Parker Roundup, 780 vehicles from the Highlands Ranch Roundup, and 732 vehicles from the Castle Rock Roundup. The figure below shows Douglas County Roundup participation trends from 1993 through 2009.

Figure 1. Household Chemical Roundup Participation (1993-2009)



Attachment B. Waste Collection Summary

Over 84 tons of hazardous materials were collected from participants at the Roundups in 2009, including 4,818 gallons of hazardous liquids (oil, antifreeze, flammable liquids, and reactive chemicals), 11,085 pounds of pesticides, 405 pounds of mercury-containing devices and mercury-contaminated waste, and more than 66 tons of paint and paint products. In addition, 545 tires, 435 gas cylinders, and 539 automotive batteries were also recycled. The figure below provides a detailed list of the waste types and quantities collected at each event in 2009, as well as the total waste collected in 2009 for each type of waste.

Figure 2. 2009 Waste Collection Summary

Waste Type	Unit	Parker	Highlands Ranch	Castle Rock	2009 Totals
Acids	<i>Gal.</i>	93	125	232	450
Aerosol Cans	<i>Lbs.</i>	650	1,750	1,000	3,400
Antifreeze	<i>Gal.</i>	110	235	415	760
Bases/Caustics	<i>Gal.</i>	74	76	0	150
Flammable Materials (liquids)	<i>Gal.</i>	375	685	673	1,733
Flammable Materials (solids)	<i>Lbs.</i>	5	420	240	665
Mercury	<i>Lbs.</i>	45	135	225	405
Paint Products*	<i>Lbs.</i>	26,075	53,700	53,100	132,875
Pesticides/Herbicides (liquids)	<i>Gal.</i>	253	425	291	969
Pesticides/Herbicides (solids)	<i>Lbs.</i>	700	1,485	1150	3,335
Toxic chemicals n.o.s.** (solids)	<i>Lbs.</i>	131	100	5	236
Used Motor Oil	<i>Gal.</i>	315	550	860	1,725
Gas Cylinders	<i>Each</i>	48	210	177	435
Tires	<i>Each</i>	88	171	286	545
Vehicle Batteries	<i>Each</i>	137	166	236	539
Latex Paint*	<i>Lbs.</i>	20,250	40,500	40,500	101,250
Total Waste Collected (Excluding Latex Paint)***	<i>Lbs.</i>	9,827	22,877	34,984	67,687
Total Waste Collected***	<i>Lbs.</i>	30,077	63,377	75,484	168,937

*Quantity for 2009 is based off an estimation of 450 lbs/cuyd for latex paint

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

***Waste totals do not include gas cylinders, tires, or vehicle batteries.