



Douglas County Household Chemical Roundup Program

2010 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 2010, the Program operated three, one-day Household Chemical Roundup events to collect household hazardous wastes from Douglas County residents. A total of 2,474 vehicles participated in the Roundups, collecting waste from an estimated 2,845 households. Over 146 tons of hazardous materials were collected, including 8,500 gallons of hazardous liquids (oil, antifreeze, flammable liquids, and reactive chemicals), 17,571 pounds of pesticides, 570 pounds of mercury-containing devices and mercury-contaminated waste, and more than 100 tons of paint and paint products. In addition, 552 tires, 849 gas cylinders, and 491 automotive batteries were also recycled. Complete summaries of participation and wastes collected are included in Attachments A and B.

By inviting new waste recycling vendors to collect materials at the Roundups, the 2010 Douglas 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 1,750 gallons (14,000 lbs.) of latex paint collected at the Roundups, and Interstate Batteries, which recycled over 12,500 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 Douglas 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.

The success of the Douglas County Household Chemical Roundup Program is dependent on the support of numerous agencies and individuals. Sponsoring agencies include Douglas County; Castle Pines North Metro District; Centennial Water and Sanitation District; Cottonwood Metropolitan District; Cottonwood Water and Sanitation District; High Prairie Farms Metro District; Inverness Water and Sanitation District; Louviers Mutual Service Company; Highlands Ranch Metro District; 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 provide considerable support to the Program: Colorado State University's Cooperative Extension Master Gardeners in Douglas County, Douglas County Sheriffs Office Environmental Hazards Section, Regional Air Quality Council, Starbucks Coffee Company,

Chick-fil-A, and Waste Connections; please thank them for their generous contributions to the Program. Individual participants at the Roundups also donated \$48,264.17 to the Program (about \$19.51 per vehicle).

The Tri-County Health Department looks forward to operating the Douglas County Household Chemical Roundup Program again in 2011, 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 Summary*

Attachment A. Participation Summary

A total of 2,474 vehicles participated in the Roundups, collecting waste from an estimated 2,845 households. This includes 852 vehicles from the Parker Roundup, 977 vehicles from the Highlands Ranch Roundup, and 645 vehicles from the Castle Rock Roundup. Figure 1 shows annual Douglas County Roundup participation trends from 1993 through 2010. Figure 2 provides a detailed look at participation totals throughout the 2010 Household Chemical Roundup Program.

Figure 1. Household Chemical Roundup Participation (1993-2010)

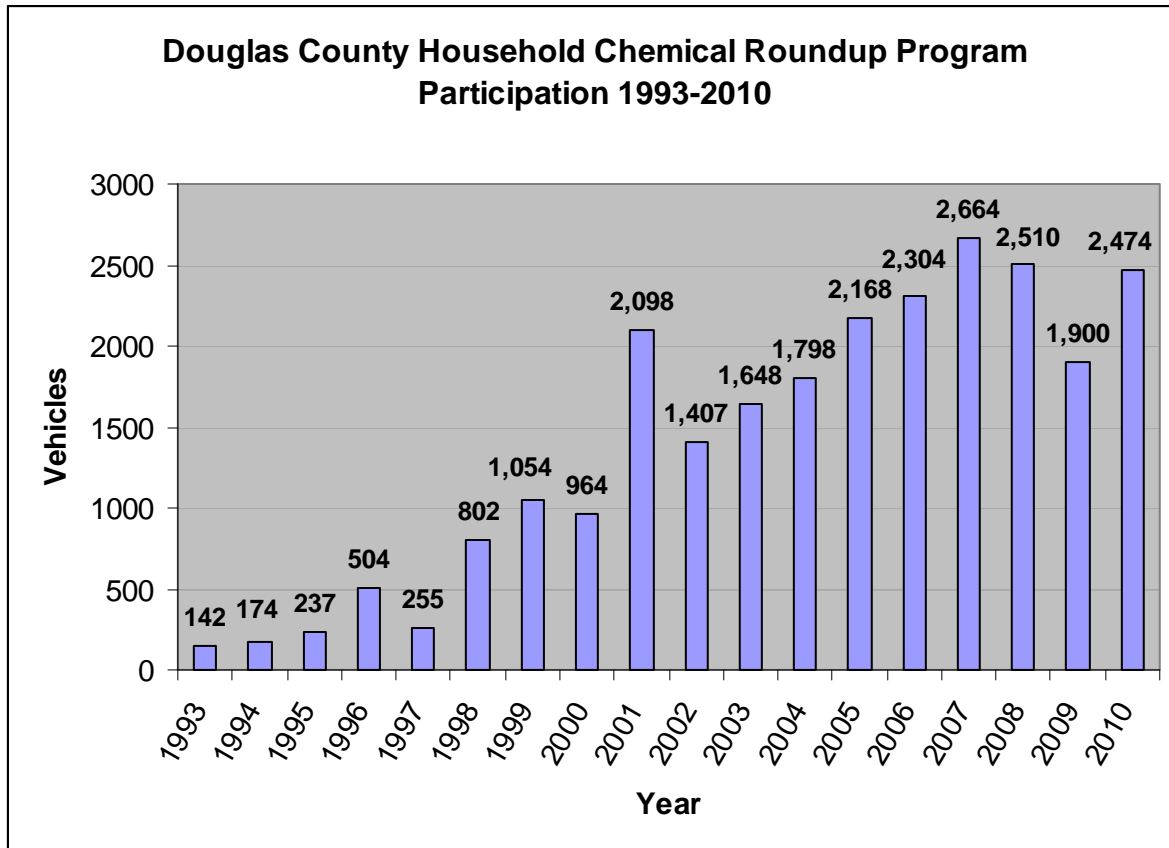


Figure 2. 2010 Household Chemical Roundup Participation (Detail)

City (Street Address)	2010 Parker HCR	2010 Highlands Ranch HCR	2010 Castle Rock HCR	2010 Total
Aurora	3	2	1	6
Castle Pines	1	3	0	4
Castle Rock	88	76	347	511
Centennial	4	5	1	10
Denver	2	3	0	5
Elizabeth	3	2	0	5
Englewood	1	3	0	4
Foxfield	8	0	0	8
Franktown	22	5	14	41
Greenwood Village	0	1	0	1
Henderson	0	1	0	1
Highlands Ranch	53	622	117	792
Hillrose	0	1	0	1
Lakewood	0	1	0	1
Larkspur	6	5	35	46
Littleton	24	162	19	205
Lone Tree	24	18	6	48
Louviers	0	1	2	3
Parker	602	51	80	733
Roxborough	0	1	0	1
Sedalia	11	11	23	45
Unknown	0	3	0	3
Total Participants	852	977	645	2474

Attachment B. Waste Collection Summary

Over 146 tons of hazardous materials were collected from participants at the Roundups in 2010, including 8,500 gallons of hazardous liquids (oil, antifreeze, flammable liquids, and reactive chemicals), 17,571 pounds of pesticides, 570 pounds of mercury-containing devices and mercury-contaminated waste, and more than 100 tons of paint and paint products. In addition, 552 tires, 849 gas cylinders, and 491 automotive batteries were also recycled. Figure 3 provides a detailed list of the waste types and quantities collected at each event in 2010, as well as the total waste collected in 2009 and 2010 for each type of waste. Figure 4 displays annual waste collection totals from 2006-2010, but does not include latex paint in the waste totals for a more accurate depiction of hazardous waste collection trends.

Figure 3. 2010 Waste Collection Summary

Waste Type	Unit	Total 2009	Total 2010	Parker 2010	Highlands Ranch 2010	Castle Rock 2010
Acids	Gal.	450	1,049	361	113	575
Aerosol Cans	Lbs.	3,400	4,725	1,200	2,475	1,050
Antifreeze	Gal.	760	930	295	390	245
Bases/Caustics	Gal.	150	994	173	146	675
Flammable Materials (liquids)	Gal.	1,733	2,475	920	880	675
Flammable Materials (solids)	Lbs.	665	65	30	10	25
Mercury	Lbs.	405	570	225	205	140
Paint Products*	Lbs.	132,875	201,200	70,500	80,750	49,950
Pesticides/Herbicides (liquids)	Gal.	969	1,537	619	539	379
Pesticides/Herbicides (solids)	Lbs.	3,335	5,275	1,725	2,850	700
Toxic chemicals n.o.s.** (solids)	Lbs.	236	735	285	285	165
Used Motor Oil	Gal.	1,725	3,052	1,642	730	680
Gas Cylinders	Each	435	849	260	371	218
Tires	Each	545	552	263	156	133
Vehicle Batteries	Each	539	491	185	150	156
Total Waste Collected (Excluding Latex Paint)***	Lbs.	67,687	151,856	52,041	57,205	42,610
Total Waste Collected***	Lbs.	168,937	292,856	106,041	108,955	77,860

*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.

Figure 4. Hazardous Waste Collection Totals 2006-2010

